



REPORT No.: SZ24100297S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

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

Full Power

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	22.91	22.98	22.92	24.00	22.93	22.99	22.90	24.00	22.89	22.95	22.92	24.00
3GPP Rel 5	HSDPA Subtest-1	22.50	22.45	22.23	23.50	22.24	22.27	22.31	23.00	22.06	22.10	22.01	23.00
3GPP Rel 5	HSDPA Subtest-2	22.47	22.40	22.35	23.50	22.13	22.25	22.36	23.00	22.08	21.95	21.99	23.00
3GPP Rel 5	HSDPA Subtest-3	22.05	21.93	21.74	23.00	21.74	21.78	21.75	22.50	21.45	21.48	21.51	22.50
3GPP Rel 5	HSDPA Subtest-4	22.05	21.93	21.70	23.00	21.38	21.73	21.82	22.50	21.59	21.49	21.34	22.50
3GPP Rel 6	HSUPA Subtest-1	22.55	22.50	22.39	23.50	22.22	22.31	22.32	23.00	22.01	22.08	21.91	23.00
3GPP Rel 6	HSUPA Subtest-2	22.09	21.94	21.83	23.00	21.70	21.80	21.80	22.50	21.48	21.55	21.58	22.50
3GPP Rel 6	HSUPA Subtest-3	22.54	22.49	22.46	23.50	22.19	22.34	22.34	23.00	21.94	22.05	21.96	23.00
3GPP Rel 6	HSUPA Subtest-4	22.57	22.49	22.34	23.50	22.17	22.35	22.37	23.00	22.06	22.01	21.89	23.00
3GPP Rel 6	HSUPA Subtest-5	22.56	22.44	22.32	23.50	22.23	22.33	22.33	23.00	22.02	22.10	22.02	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	22.56	22.46	22.26	23.50	22.14	22.22	22.25	23.00	22.34	22.02	21.84	23.00
Attenuator		Cable Loss				Cable Loss				Cable Loss			
Mode		Max.				Max.				Max.			

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	22.58	22.62	22.55	24
20	QPSK	1	49	22.52	22.57	22.50	
20	QPSK	1	99	22.53	22.51	22.46	
20	QPSK	50	0	21.67	21.71	21.65	23
20	QPSK	50	24	21.56	21.63	21.58	
20	QPSK	50	50	21.51	21.60	21.49	
20	QPSK	100	0	21.55	21.57	21.52	23
20	16QAM	1	0	21.77	21.83	21.78	
20	16QAM	1	49	21.73	21.76	21.70	
20	16QAM	1	99	21.66	21.74	21.67	22
20	16QAM	50	0	20.63	20.72	20.68	
20	16QAM	50	24	20.56	20.66	20.60	
20	16QAM	50	50	20.49	20.63	20.56	22
20	16QAM	100	0	20.54	20.58	20.61	
20	64QAM	1	0	20.65	20.70	20.64	
20	64QAM	1	49	20.58	20.65	20.56	22
20	64QAM	1	99	20.52	20.54	20.51	
20	64QAM	50	0	19.58	19.66	19.60	
20	64QAM	50	24	19.49	19.51	19.63	21
20	64QAM	50	50	19.54	19.59	19.55	
20	64QAM	100	0	19.46	19.54	19.49	
20	256QAM	1	0	17.71	17.76	17.50	19
20	256QAM	1	49	17.49	17.69	17.67	
20	256QAM	1	99	17.67	17.54	17.52	
20	256QAM	50	0	16.53	16.66	16.55	18
20	256QAM	50	24	16.49	16.64	16.69	
20	256QAM	50	50	16.62	16.60	16.47	
20	256QAM	100	0	16.53	16.63	16.44	18
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	22.58	22.60	22.54	24
15	QPSK	1	37	22.42	22.57	22.49	
15	QPSK	1	74	22.56	22.54	22.48	
15	QPSK	36	0	21.58	21.64	21.72	23
15	QPSK	36	20	21.53	21.56	21.51	
15	QPSK	36	39	21.49	21.57	21.53	
15	QPSK	75	0	21.50	21.48	21.52	23
15	16QAM	1	0	21.78	21.85	21.84	
15	16QAM	1	37	21.80	21.76	21.68	
15	16QAM	1	74	21.62	21.61	21.65	22
15	16QAM	36	0	20.51	20.77	20.74	
15	16QAM	36	20	20.44	20.61	20.69	
15	16QAM	36	39	20.55	20.61	20.63	22
15	16QAM	75	0	20.59	20.47	20.52	
15	64QAM	1	0	20.61	20.72	20.68	
15	64QAM	1	37	20.44	20.67	20.52	22
15	64QAM	1	74	20.52	20.45	20.44	
15	64QAM	36	0	19.43	19.64	19.66	
15	64QAM	36	20	19.49	19.60	19.60	21
15	64QAM	36	39	19.40	19.64	19.55	
15	64QAM	75	0	19.45	19.60	19.39	
15	256QAM	1	0	17.71	17.75	17.53	19
15	256QAM	1	37	17.46	17.67	17.75	
15	256QAM	1	74	17.49	17.50	17.38	
15	256QAM	36	0	16.40	16.73	16.60	18
15	256QAM	36	20	16.46	16.51	16.68	
15	256QAM	36	39	16.48	16.44	16.49	
15	256QAM	75	0	16.42	16.58	16.43	18
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)
10	QPSK	1	0	22.55	22.58	22.50	24
10	QPSK	1	25	22.48	22.56	22.53	
10	QPSK	1	49	22.43	22.51	22.46	
10	QPSK	25	0	21.65	21.63	21.68	23
10	QPSK	25	12	21.47	21.60	21.63	
10	QPSK	25	25	21.60	21.50	21.45	
10	QPSK	50	0	21.46	21.66	21.56	23
10	16QAM	1	0	21.78	21.90	21.75	
10	16QAM	1	25	21.67	21.84	21.80	
10	16QAM	1	49	21.52	21.75	21.75	22
10	16QAM	25	0	20.56	20.66	20.64	
10	16QAM	25	12	20.51	20.68	20.67	
10	16QAM	25	25	20.46	20.69	20.44	22
10	16QAM	50	0	20.45	20.57	20.68	
10	64QAM	1	0	20.75	20.58	20.65	
10	64QAM	1	25	20.55	20.65	20.52	22
10	64QAM	1	49	20.48	20.55	20.57	
10	64QAM	25	0	19.49	19.64	19.48	
10	64QAM	25	12	19.51	19.56	19.52	21
10	64QAM	25	25	19.61	19.48	19.56	
10	64QAM	50	0	19.55	19.60	19.49	
10	256QAM	1	0	17.57	17.74	17.44	19
10	256QAM	1	25	17.50	17.71	17.71	
10	256QAM	1	49	17.60	17.45	17.47	
10	256QAM	25	0	16.56	16.63	16.59	18
10	256QAM	25	12	16.39	16.64	16.67	
10	256QAM	25	25	16.57	16.45	16.36	
10	256QAM	50	0	16.42	16.64	16.50	18
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)
5	QPSK	1	0	22.58	22.59	22.54	24
5	QPSK	1	12	22.57	22.55	22.44	
5	QPSK	1	24	22.51	22.55	22.47	
5	QPSK	12	0	21.62	21.75	21.73	23
5	QPSK	12	7	21.58	21.67	21.57	
5	QPSK	12	13	21.43	21.48	21.44	
5	QPSK	25	0	21.64	21.57	21.58	23
5	16QAM	1	0	21.81	21.73	21.82	

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	22.67	22.74	22.61	24
20	QPSK	1	49	22.49	22.65	22.47	
20	QPSK	1	99	22.68	22.59	22.56	
20	QPSK	50	0	21.77	21.79	21.75	23
20	QPSK	50	24	21.54	21.71	21.80	
20	QPSK	50	50	21.63	21.78	21.62	
20	QPSK	100	0	21.54	21.70	21.68	23
20	16QAM	1	0	21.95	21.95	21.72	
20	16QAM	1	49	21.71	21.75	21.79	
20	16QAM	1	99	21.71	21.71	21.62	22
20	16QAM	50	0	20.77	20.72	20.76	
20	16QAM	50	24	20.64	20.76	20.54	
20	16QAM	50	50	20.49	20.58	20.67	22
20	16QAM	100	0	20.68	20.66	20.62	
20	64QAM	1	0	20.78	20.78	20.79	
20	64QAM	1	49	20.71	20.72	20.72	22
20	64QAM	1	99	20.46	20.64	20.54	
20	64QAM	50	0	19.69	19.65	19.66	
20	64QAM	50	24	19.43	19.56	19.74	21
20	64QAM	50	50	19.68	19.58	19.60	
20	64QAM	100	0	19.45	19.56	19.63	
20	256QAM	1	0	17.68	17.74	17.59	19
20	256QAM	1	49	17.64	17.81	17.84	
20	256QAM	1	99	17.67	17.63	17.55	
20	256QAM	50	0	16.51	16.73	16.74	18
20	256QAM	50	24	16.47	16.74	16.66	
20	256QAM	50	50	16.73	16.59	16.61	
20	256QAM	100	0	16.49	16.71	16.40	18
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	22.64	22.71	22.65	24
15	QPSK	1	37	22.47	22.61	22.63	
15	QPSK	1	74	22.65	22.56	22.51	
15	QPSK	36	0	21.62	21.67	21.77	23
15	QPSK	36	20	21.67	21.82	21.72	
15	QPSK	36	39	21.61	21.64	21.54	
15	QPSK	75	0	21.73	21.61	21.63	23
15	16QAM	1	0	21.89	21.99	21.72	
15	16QAM	1	37	21.82	21.78	21.80	
15	16QAM	1	74	21.65	21.78	21.64	22
15	16QAM	36	0	20.59	20.90	20.68	
15	16QAM	36	20	20.71	20.67	20.72	
15	16QAM	36	39	20.66	20.76	20.52	22
15	16QAM	75	0	20.61	20.72	20.55	
15	64QAM	1	0	20.68	20.88	20.83	
15	64QAM	1	37	20.59	20.59	20.65	22
15	64QAM	1	74	20.66	20.63	20.51	
15	64QAM	36	0	19.74	19.84	19.62	
15	64QAM	36	20	19.59	19.67	19.65	21
15	64QAM	36	39	19.60	19.67	19.62	
15	64QAM	75	0	19.51	19.61	19.47	
15	256QAM	1	0	17.73	17.75	17.52	19
15	256QAM	1	37	17.54	17.70	17.68	
15	256QAM	1	74	17.60	17.64	17.46	
15	256QAM	36	0	16.56	16.74	16.57	1

5	16QAM	1	12	21.63	21.81	21.68	23
5	16QAM	1	24	21.60	21.74	21.62	
5	16QAM	12	0	20.51	20.74	20.78	
5	16QAM	12	7	20.63	20.55	20.89	
5	16QAM	12	13	20.49	20.53	20.47	
5	16QAM	25	0	20.42	20.64	20.54	
5	64QAM	1	0	20.59	20.70	20.51	
5	64QAM	1	12	20.61	20.60	20.66	
5	64QAM	1	24	20.50	20.63	20.37	
5	64QAM	12	0	19.44	19.59	19.56	
5	64QAM	12	7	19.56	19.47	19.55	
5	64QAM	12	13	19.62	19.54	19.43	
5	64QAM	25	0	19.41	19.42	19.40	
5	256QAM	1	0	17.62	17.79	17.53	
5	256QAM	1	12	17.52	17.67	17.66	
5	256QAM	1	24	17.52	17.47	17.43	
5	256QAM	12	0	16.51	16.66	16.62	
5	256QAM	12	7	16.56	16.70	16.62	
5	256QAM	12	13	16.61	16.49	16.39	
5	256QAM	25	0	16.52	16.67	16.40	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.52	22.55	22.51	24
3	QPSK	1	8	22.39	22.43	22.48	
3	QPSK	1	14	22.46	22.51	22.47	
3	QPSK	8	0	21.65	21.56	21.51	
3	QPSK	8	4	21.53	21.57	21.49	23
3	QPSK	8	7	21.51	21.66	21.42	
3	QPSK	15	0	21.58	21.44	21.42	
3	16QAM	1	0	21.62	21.81	21.75	
3	16QAM	1	8	21.61	21.78	21.73	23
3	16QAM	1	14	21.74	21.60	21.55	
3	16QAM	8	0	20.54	20.66	20.61	
3	16QAM	8	4	20.63	20.75	20.58	
3	16QAM	8	7	20.51	20.72	20.44	22
3	16QAM	15	0	20.40	20.46	20.54	
3	64QAM	1	0	20.56	20.65	20.63	
3	64QAM	1	8	20.49	20.74	20.64	
3	64QAM	1	14	20.57	20.61	20.41	21
3	64QAM	8	0	19.67	19.73	19.66	
3	64QAM	8	4	19.53	19.55	19.55	
3	64QAM	8	7	19.42	19.58	19.56	
3	64QAM	15	0	19.56	19.62	19.50	19
3	256QAM	1	0	17.75	17.74	17.44	
3	256QAM	1	8	17.55	17.56	17.77	
3	256QAM	1	14	17.57	17.48	17.58	
3	256QAM	8	0	16.61	16.77	16.50	19
3	256QAM	8	4	16.50	16.61	16.58	
3	256QAM	8	7	16.64	16.43	16.42	
3	256QAM	15	0	16.53	16.62	16.42	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.52	22.59	22.51	24
1.4	QPSK	1	3	22.38	22.45	22.50	
1.4	QPSK	1	5	22.56	22.50	22.50	
1.4	QPSK	3	0	21.71	21.75	21.50	
1.4	QPSK	3	1	21.65	21.70	21.50	23
1.4	QPSK	3	3	21.54	21.62	21.50	
1.4	QPSK	6	0	21.50	21.45	21.40	
1.4	16QAM	1	0	21.85	21.68	21.82	
1.4	16QAM	1	3	21.64	21.71	21.55	22
1.4	16QAM	1	5	21.70	21.61	21.59	
1.4	16QAM	3	0	20.54	20.74	20.63	
1.4	16QAM	3	1	20.60	20.53	20.60	
1.4	16QAM	3	3	20.54	20.49	20.47	22
1.4	16QAM	6	0	20.55	20.54	20.46	
1.4	64QAM	1	0	20.51	20.74	20.59	
1.4	64QAM	1	3	20.66	20.59	20.44	
1.4	64QAM	1	5	20.53	20.61	20.41	21
1.4	64QAM	3	0	19.55	19.54	19.54	
1.4	64QAM	3	1	19.52	19.61	19.70	
1.4	64QAM	3	3	19.51	19.60	19.63	
1.4	64QAM	6	0	19.55	19.52	19.51	19
1.4	256QAM	1	0	17.60	17.71	17.45	
1.4	256QAM	1	3	17.48	17.61	17.70	
1.4	256QAM	1	5	17.53	17.45	17.40	
1.4	256QAM	3	0	16.56	16.66	16.51	18
1.4	256QAM	3	1	16.56	16.66	16.77	
1.4	256QAM	3	3	16.52	16.53	16.39	
1.4	256QAM	6	0	16.54	16.57	16.43	

5	16QAM	1	12	21.89	21.89	21.69	23
5	16QAM	1	24	21.61	21.84	21.84	
5	16QAM	12	0	20.61	20.89	20.73	
5	16QAM	12	7	20.75	20.85	20.73	
5	16QAM	12	13	20.68	20.66	20.54	
5	16QAM	25	0	20.48	20.59	20.78	
5	64QAM	1	0	20.76	20.69	20.71	
5	64QAM	1	12	20.71	20.64	20.61	
5	64QAM	1	24	20.68	20.67	20.60	
5	64QAM	12	0	19.58	19.72	19.67	
5	64QAM	12	7	19.51	19.60	19.68	
5	64QAM	12	13	19.64	19.66	19.53	
5	64QAM	25	0	19.64	19.58	19.45	
5	256QAM	1	0	17.71	17.92	17.55	
5	256QAM	1	12	17.61	17.63	17.65	
5	256QAM	1	24	17.65	17.58	17.69	
5	256QAM	12	0	16.51	16.78	16.69	
5	256QAM	12	7	16.56	16.66	16.76	
5	256QAM	12	13	16.70	16.52	16.51	
5	256QAM	25	0	16.59	16.79	16.66	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.65	22.66	22.59	24
3	QPSK	1	8	22.64	22.62	22.61	
3	QPSK	1	14	22.57	22.48	22.42	
3	QPSK	8	0	21.81	21.74	21.73	
3	QPSK	8	4	21.51	21.59	21.72	23
3	QPSK	8	7	21.64	21.55	21.45	
3	QPSK	15	0	21.69	21.72	21.56	
3	16QAM	1	0	21.81	21.93	21.94	
3	16QAM	1	8	21.86	21.76	21.89	23
3	16QAM	1	14	21.83	21.79	21.86	
3	16QAM	8	0	20.78	20.80	20.77	
3	16QAM	8	4	20.61	20.67	20.79	
3	16QAM	8	7	20.64	20.68	20.52	22
3	16QAM	15	0	20.68	20.56	20.66	
3	64QAM	1	0	20.65	20.78	20.62	
3	64QAM	1	8	20.62	20.82	20.72	
3	64QAM	1	14	20.60	20.57	20.46	21
3	64QAM	8	0	19.60	19.70	19.74	
3	64QAM	8	4	19.53	19.65	19.72	
3	64QAM	8	7	19.63	19.58	19.57	
3	64QAM	15	0	19.42	19.67	19.52	19
3	256QAM	1	0	17.72	17.80	17.54	
3	256QAM	1	8	17.66	17.67	17.81	
3	256QAM	1	14	17.68	17.50	17.46	
3	256QAM	8	0	16.57	16.72	16.73	18
3	256QAM	8	4	16.63	16.63	16.71	
3	256QAM	8	7	16.56	16.53	16.50	
3	256QAM	15	0	16.57	16.78	16.54	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.64	22.67	22.62	24
1.4	QPSK	1	3	22.63	22.60	22.53	
1.4	QPSK	1	5	22.54	22.64	22.56	
1.4	QPSK	3	0	21.86	21.79	21.77	
1.4	QPSK	3	1	21.56	21.72	21.71	23
1.4	QPSK	3	3	21.61	21.61	21.65	
1.4	QPSK	6	0	21.71	21.71	21.52	
1.4	16QAM	1	0	21.84	21.79	21.72	
1.4	16QAM	1	3	21.76	21.81	21.75	22
1.4	16QAM	1	5	21.85	21.85	21.70	
1.4	16QAM	3	0	20.70	20.84	20.69	
1.4	16QAM	3	1	20.63	20.60	20.76	
1.4	16QAM	3	3	20.66	20.69	20.71	22
1.4	16QAM	6	0	20.60	20.69	20.80	
1.4	64QAM	1	0	20.72	20.75	20.74	
1.4	64QAM	1	3	20.73	20.82	20.67	
1.4	64QAM	1	5	20.61	20.66	20.61	21
1.4	64QAM	3	0	19.74	19.64	19.57	
1.4	64QAM	3	1	19.59	19.61	19.60	
1.4	64QAM	3	3	19.61	19.63	19.59	
1.4	64QAM	6	0	19.61	19.63	19.44	19
1.4	256QAM	1	0	17.82	17.78	17.56	
1.4	256QAM	1	3	17.50	17.67	17.76	
1.4	256QAM	1	5	17.63	17.58	17.54	
1.4	256QAM	3	0	16.62	16.73	16.62	18
1.4	256QAM	3	1	16.50	16.59	16.79	
1.4	256QAM	3	3	16.71	16.53	16.55	
1.4	256QAM	6	0	16.62	16.71	16.52	

Band 5 (Cellular Band) (dBm) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.91	22.96	22.90	24
10	QPSK	1	25	22.92	22.89	22.82	
10	QPSK	1	49	22.88	22.93	22.80	
10	QPSK	25	0	21.91	21.97	21.87	23
10	QPSK	25	12	21.79	21.96	21.82	
10	QPSK	25	25	21.96	21.96	21.92	
10	QPSK	50	0	21.90	21.89	21.94	23
10	16QAM	1	0	22.09	22.12	22.00	
10	16QAM	1	25	21.98	22.08	22.15	
10	16QAM	1	49	21.92	21.94	22.11	22
10	16QAM	25	0	20.93	20.95	20.97	
10	16QAM	25	12	20.97	21.07	20.91	
10	16QAM	25	25	20.79	20.88	20.89	22
10	16QAM	50	0	20.96	20.90	20.84	
10	64QAM	1	0	21.06	21.02	20.97	
10	64QAM	1	25	20.97	20.85	20.80	22
10	64QAM	1	49	20.95	20.90	20.84	
10	64QAM	25	0	19.85	19.90	19.97	
10	64QAM	25	12	19.82	19.93	20.01	21
10	64QAM	25	25	19.90	19.96	19.80	
10	64QAM	50	0	19.75	19.96	19.94	
10	256QAM	1	0	17.80	17.71	17.59	19
10	256QAM	1	25	17.55	17.69	17.81	
10	256QAM	1	49	17.70	17.53	17.56	
10	256QAM	25	0	16.57	16.80	16.65	18
10	256QAM	25	12	16.49	16.58	16.73	
10	256QAM	25	25	16.68	16.56	16.49	
10	256QAM	50	0	16.59	16.68	16.44	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	Tune-up limit (dBm)
5	QPSK	1	0	22.90	22.94	22.88	24
5	QPSK	1	12	22.74	22.95	22.94	
5	QPSK	1	24	22.84	22.95	22.68	
5	QPSK	12	0	21.98	22.10	21.90	23
5	QPSK	12	7	21.84	22.06	22.02	
5	QPSK	12	13	21.82	21.81	21.91	
5	QPSK	25	0	21.76	21.99	21.82	23
5	16QAM	1	0	21.99	22.21	22.01	
5	16QAM	1	12	21.96	22.09	22.07	
5	16QAM	1	24	22.00	21.99	21.98	22
5	16QAM	12	0	20.94	20.93	20.90	
5	16QAM	12	7	20.85	21.10	20.99	
5	16QAM	12	13	20.82	21.03	20.91	22
5	16QAM	25	0	20.76	20.95	20.89	
5	64QAM	1	0	20.99	21.07	20.84	
5	64QAM	1	12	20.98	21.01	20.98	22
5	64QAM	1	24	20.85	20.74	20.94	
5	64QAM	12	0	19.89	20.03	19.93	
5	64QAM	12	7	19.93	19.81	19.86	21
5	64QAM	12	13	19.95	19.96	19.89	
5	64QAM	25	0	19.86	19.76	19.71	
5	256QAM	1	0	17.79	17.79	17.64	19
5	256QAM	1	12	17.64	17.72	17.69	
5	256QAM	1	24	17.57	17.60	17.52	
5	256QAM	12	0	16.56	16.73	16.67	18
5	256QAM	12	7	16.60	16.75	16.70	
5	256QAM	12	13	16.67	16.59	16.48	
5	256QAM	25	0	16.52	16.75	16.54	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	22.83	22.91	22.78	24
3	QPSK	1	8	22.81	22.83	22.76	
3	QPSK	1	14	22.79	22.87	22.90	
3	QPSK	8	0	22.03	21.99	22.04	23
3	QPSK	8	4	21.85	22.05	21.82	
3	QPSK	8	7	21.93	22.04	21.78	
3	QPSK	15	0	21.92	21.78	21.80	23
3	16QAM	1	0	22.00	22.12	22.05	
3	16QAM	1	8	21.96	22.21	21.90	
3	16QAM	1	14	22.10	22.16	22.09	22
3	16QAM	8	0	20.95	20.98	20.89	
3	16QAM	8	4	20.92	21.08	21.04	
3	16QAM	8	7	20.73	20.95	20.94	22
3	16QAM	15	0	20.77	20.90	20.98	
3	64QAM	1	0	21.07	21.06	20.85	
3	64QAM	1	8	20.95	21.08	20.87	22
3	64QAM	1	14	20.86	20.93	20.78	
3	64QAM	8	0	19.94	20.01	19.81	
3	64QAM	8	4	19.80	19.88	19.95	21
3	64QAM	8	7	19.77	19.89	19.90	
3	64QAM	15	0	19.71	19.90	19.90	
3	256QAM	1	0	17.76	17.79	17.52	19
3	256QAM	1	8	17.51	17.74	17.83	
3	256QAM	1	14	17.59	17.51	17.47	
3	256QAM	8	0	16.46	16.69	16.66	18
3	256QAM	8	4	16.49	16.57	16.68	
3	256QAM	8	7	16.70	16.57	16.51	
3	256QAM	15	0	16.57	16.71	16.45	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	22.86	22.88	22.85	24
1.4	QPSK	1	3	22.82	22.90	22.88	
1.4	QPSK	1	5	22.86	22.83	22.76	
1.4	QPSK	3	0	21.87	22.00	21.89	
1.4	QPSK	3	1	21.92	22.08	21.83	
1.4	QPSK	3	3	21.86	21.98	21.87	
1.4	QPSK	6	0	21.87	22.01	21.87	23
1.4	16QAM	1	0	22.12	22.10	21.98	

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	22.87	22.96	22.90	24
20	QPSK	1	49	22.76	22.88	22.73	
20	QPSK	1	99	22.82	22.76	22.70	
20	QPSK	50	0	21.95	22.10	22.01	23
20	QPSK	50	24	21.73	22.00	21.90	
20	QPSK	50	50	21.72	21.77	21.78	
20	QPSK	100	0	21.93	21.78	21.75	23
20	16QAM	1	0	21.94	22.03	22.16	
20	16QAM	1	49	21.91	22.05	22.03	
20	16QAM	1	99	21.85	21.96	21.98	22
20	16QAM	50	0	20.82	21.04	20.96	
20	16QAM	50	24	20.94	20.82	20.86	
20	16QAM	50	50	20.77	20.92	20.75	22
20	16QAM	100	0	20.71	20.94	20.90	
20	64QAM	1	0	20.99	20.95	20.96	
20	64QAM	1	49	20.91	20.80	20.92	22
20	64QAM	1	99	20.83	20.91	20.91	
20	64QAM	50	0	19.75	20.02	19.89	
20	64QAM	50	24	19.81	19.82	19.91	21
20	64QAM	50	50	19.94	19.97	19.74	
20	64QAM	100	0	19.67	19.84	19.84	
20	256QAM	1	0	17.69	17.88	17.49	19
20	256QAM	1	49	17.65	17.63	17.73	
20	256QAM	1	99	17.66	17.56	17.53	
20	256QAM	50	0	16.55	16.75	16.66	18
20	256QAM	50	24	16.45	16.82	16.69	
20	256QAM	50	50	16.60	16.57	16.58	
20	256QAM	100	0	16.49	16.63	16.53	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.89	22.93	22.83	24
15	QPSK	1	37	22.85	22.77	22.89	
15	QPSK	1	74	22.72	22.84	22.79	
15	QPSK	36	0	21.99	21.89	21.88	23
15	QPSK	36	20	21.73	21.85	21.78	
15	QPSK	36	39	21.91	21.96	21.64	
15	QPSK	75	0	21.77	21.91	21.72	23
15	16QAM	1	0	22.17	22.09	22.00	
15	16QAM	1	37	21.95	22.12	21.97	
15	16QAM	1	74	22.03	21.94	21.82	22
15	16QAM	36	0	20.95	20.94	21.06	
15	16QAM	36	20	20.72	20.99	20.81	
15	16QAM	36	39	20.86	20.99	20.91	22
15	16QAM	75	0	20.80	20.76	20.93	
15	64QAM	1	0	20.91	20.88	20.88	
15	64QAM	1	37	20.95	20.86	20.88	22
15	64QAM	1	74	20.70	20.74	20.70	
15	64QAM	36	0	19.75	19.96	19.98	
15	64QAM	36	20	19.67	19.86	19.84	21
15	64QAM	36	39	19.94	19.87	19.71	
15	64QAM	75	0	19.74	19.94	19.82	
15	256QAM	1	0	17.72	17.87	17.49	19
15	256QAM	1	37	17.48	17.64	17.56	
15	256QAM	1	74	17.60	17.54	17.50	
15	256QAM	36	0	16.53	16.68	16.63	18
15	256QAM	36	20	16.48	16.76	16.68	
15	256QAM	36	39	16.68	16.58	16.44	
15	256QAM	75	0	16.53	16.62	16.41	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.87	22.91	22.84	24
10	QPSK	1	25	22.87	22.78	22.86	
10	QPSK	1	49	22.74	22.87	22.76	
10	QPSK	25	0	21.89	21.89	22.00	23
10	QPSK	25	12	21.84	21.78	21.91	
10	QPSK	25	25	21.72	21.87	21.77	
10	QPSK	50	0	21.95	21.72	21.78	23
10	16QAM	1	0	22.03	22.13	21.98	
10	16QAM	1	25	21.91	22.10	21.96	
10	16QAM	1	49	22.01	22.03	21.84	22
10	16QAM	25	0	21.03	21.04	20.90	
10	16QAM	25	12	20.73	20.88	20.88	
10	16QAM	25	25	20.70	20.78	20.79	22
10	16QAM	50	0	20.85	20.73	20.92	
10	64QAM	1	0	20.98	20.95	20.91	
10	64QAM	1	25	20.94	20.88	20.76	22
10	64QAM	1	49	20.88	20.91	20.84	
10	64QAM	25	0	19.83	20.06	19.97	
10	64QAM	25	12	19.77	19.90	19.96	21
10	64QAM	25	25	19.93	19.91	19.80	
10	64QAM	50	0	19.66	19.74	19.73	
10	256QAM	1	0	17.68	17.89	17.56	19
10	256QAM	1	25	17.56	17.61	17.65	
10	256QAM	1	49	17.71	17.52	17.53	
10	256QAM	25	0	16.46	16.75	16.69	18
10	256QAM	25	12	16.56	16.73	16.88	
10	256QAM	25	25	16.54	16.63	16.52	
10	256QAM	50	0	16.51	16.65	16.37	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.86	22.88	22.76	24
5	QPSK	1	12	22.85	22.86	22.75	
5	QPSK	1	24	22.82	22.81	22.72	
5	QPSK	12	0	22.02	22.03	21.96	23
5	QPSK	12	7	21.87	21.86	21.91	
5	QPSK	12	13	21.78	21.97	21.69	
5	QPSK	25	0	21.77	21.89	21.74	
5	16QAM	1	0	22.10	22.03	22.09	



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1.4	16QAM	1	3	22.11	22.14	22.05	23
1.4	16QAM	1	5	22.10	22.02	21.88	
1.4	16QAM	3	0	20.91	21.00	20.96	
1.4	16QAM	3	1	20.84	21.02	20.80	
1.4	16QAM	3	3	20.85	20.98	20.88	22
1.4	16QAM	6	0	20.76	20.97	20.93	
1.4	64QAM	1	0	21.08	21.07	20.96	22
1.4	64QAM	1	3	20.87	20.89	21.00	
1.4	64QAM	1	5	20.74	20.75	20.81	
1.4	64QAM	3	0	19.90	20.02	19.93	
1.4	64QAM	3	1	19.89	19.83	20.06	
1.4	64QAM	3	3	19.82	19.84	19.91	
1.4	64QAM	6	0	19.72	19.98	19.91	
1.4	256QAM	1	0	17.71	17.90	17.58	19
1.4	256QAM	1	3	17.63	17.78	17.79	
1.4	256QAM	1	5	17.67	17.55	17.69	
1.4	256QAM	3	0	16.53	16.83	16.71	
1.4	256QAM	3	1	16.62	16.64	16.78	
1.4	256QAM	3	3	16.61	16.62	16.69	
1.4	256QAM	6	0	16.50	16.62	16.41	
1.4	256QAM	6	0	16.50	16.62	16.41	18

5	16QAM	1	12	22.01	21.97	22.03	23
5	16QAM	1	24	21.98	22.02	21.95	22
5	16QAM	12	0	20.96	21.11	20.89	
5	16QAM	12	7	20.84	20.97	20.96	
5	16QAM	12	13	20.75	20.82	20.88	
5	16QAM	25	0	20.81	20.98	20.91	22
5	64QAM	1	0	21.03	21.03	20.94	
5	64QAM	1	12	20.91	20.88	20.77	
5	64QAM	1	24	20.75	20.89	20.67	
5	64QAM	12	0	19.80	19.96	19.80	21
5	64QAM	12	7	19.76	19.86	20.00	
5	64QAM	12	13	19.82	19.80	19.77	
5	64QAM	25	0	19.69	19.81	19.88	
5	256QAM	1	0	17.71	17.78	17.64	19
5	256QAM	1	12	17.64	17.70	17.74	
5	256QAM	1	24	17.67	17.58	17.56	
5	256QAM	12	0	16.60	16.76	16.69	
5	256QAM	12	7	16.54	16.66	16.65	18
5	256QAM	12	13	16.62	16.65	16.46	
5	256QAM	25	0	16.52	16.62	16.46	

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	22.74	22.83	22.77	24
10	QPSK	1	25	22.62	22.76	22.58	
10	QPSK	1	49	22.71	22.62	22.59	
10	QPSK	25	0	21.77	21.84	21.75	
10	QPSK	25	12	21.61	21.69	21.62	23
10	QPSK	25	25	21.48	21.65	21.67	
10	QPSK	50	0	21.55	21.66	21.52	
10	16QAM	1	0	21.90	21.83	21.83	
10	16QAM	1	25	21.89	21.90	21.88	23
10	16QAM	1	49	21.76	21.71	21.73	
10	16QAM	25	0	20.62	20.72	20.70	
10	16QAM	25	12	20.51	20.76	20.71	
10	16QAM	25	25	20.63	20.58	20.76	22
10	16QAM	50	0	20.54	20.70	20.60	
10	64QAM	1	0	20.71	20.68	20.82	
10	64QAM	1	25	20.61	20.77	20.55	
10	64QAM	1	49	20.67	20.58	20.56	22
10	64QAM	25	0	19.68	19.70	19.76	
10	64QAM	25	12	19.51	19.65	19.74	
10	64QAM	25	25	19.50	19.57	19.51	
10	64QAM	50	0	19.45	19.58	19.50	21
10	256QAM	1	0	17.66	17.80	17.61	
10	256QAM	1	25	17.52	17.76	17.68	
10	256QAM	1	49	17.63	17.56	17.55	
10	256QAM	25	0	16.59	16.78	16.67	19
10	256QAM	25	12	16.59	16.73	16.78	
10	256QAM	25	25	16.55	16.67	16.50	
10	256QAM	50	0	16.42	16.73	16.40	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.70	22.80	22.70	24
5	QPSK	1	12	22.49	22.63	22.58	
5	QPSK	1	24	22.58	22.58	22.47	
5	QPSK	12	0	21.70	21.82	21.60	
5	QPSK	12	7	21.58	21.68	21.73	23
5	QPSK	12	13	21.71	21.64	21.62	
5	QPSK	25	0	21.54	21.65	21.60	
5	16QAM	1	0	21.81	21.89	21.86	
5	16QAM	1	12	21.89	21.94	21.75	23
5	16QAM	1	24	21.84	21.76	21.64	
5	16QAM	12	0	20.79	20.74	20.79	
5	16QAM	12	7	20.54	20.81	20.56	
5	16QAM	12	13	20.49	20.59	20.60	22
5	16QAM	25	0	20.65	20.72	20.80	
5	64QAM	1	0	20.83	20.83	20.77	
5	64QAM	1	12	20.67	20.69	20.73	
5	64QAM	1	24	20.49	20.67	20.47	22
5	64QAM	12	0	19.77	19.65	19.77	
5	64QAM	12	7	19.57	19.70	19.63	
5	64QAM	12	13	19.50	19.58	19.68	
5	64QAM	25	0	19.62	19.51	19.59	21
5	256QAM	1	0	17.65	17.74	17.45	
5	256QAM	1	12	17.46	17.71	17.70	
5	256QAM	1	24	17.63	17.48	17.49	
5	256QAM	12	0	16.57	16.78	16.60	19
5	256QAM	12	7	16.47	16.66	16.84	
5	256QAM	12	13	16.70	16.50	16.55	
5	256QAM	25	0	16.59	16.69	16.51	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.73	22.79	22.70	24
3	QPSK	1	8	22.62	22.53	22.67	
3	QPSK	1	14	22.51	22.63	22.51	
3	QPSK	8	0	21.65	21.67	21.60	
3	QPSK	8	4	21.71	21.77	21.54	23
3	QPSK	8	7	21.62	21.58	21.62	
3	QPSK	15	0	21.73	21.57	21.68	
3	16QAM	1	0	21.94	21.95	21.94	
3	16QAM	1	8	21.74	21.93	21.71	23
3	16QAM	1	14	21.70	21.83	21.84	
3	16QAM	8	0	20.77	20.90	20.88	
3	16QAM	8	4	20.62	20.80	20.67	
3	16QAM	8	7	20.63	20.72	20.72	22
3	16QAM	15	0	20.62	20.54	20.75	
3	64QAM	1	0	20.63	20.81	20.81	
3	64QAM	1	8	20.65	20.85	20.65	
3	64QAM	1	14	20.69	20.61	20.59	22
3	64QAM	8	0	19.65	19.82	19.73	
3	64QAM	8	4	19.63	19.55	19.75	
3	64QAM	8	7	19.67	19.62	19.64	
3	64QAM	15	0	19.46	19.67	19.50	21
3	256QAM	1	0	17.70	17.86	17.61	
3	256QAM	1	8	17.52	17.74	17.83	
3	256QAM	1	14	17.69	17.45	17.56	
3	256QAM	8	0	16.48	16.69	16.56	19
3	256QAM	8	4	16.52	16.68	16.81	
3	256QAM	8	7	16.63	16.64	16.48	
3	256QAM	15	0	16.47	16.68	16.44	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.69	22.77	22.65	24
1.4	QPSK	1	3	22.67	22.59	22.69	
1.4	QPSK	1	5	22.54	22.65	22.63	
1.4	QPSK	3	0	21.62	21.79	21.70	
1.4	QPSK	3	1	21.51	21.63	21.63	
1.4	QPSK	3	3	21.70	21.65	21.66	
1.4	QPSK	6	0	21.54	21.74	21.64	23
1.4	16QAM	1	0	21.72	21.85	21.96	

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		22.98		24
10	QPSK	1	25		22.89		
10	QPSK	1	49		22.83		
10	QPSK	25	0		22.13		
10	QPSK	25	12		21.89		23
10	QPSK	25	25		22.00		
10	QPSK	50	0		21.84		
10	16QAM	1	0		22.04		
10	16QAM	1	25		21.96		23
10	16QAM	1	49		21.97		
10	16QAM	25	0		21.04		
10	16QAM	25	12		20.97		
10	16QAM	25	25		21.02		22
10	16QAM	50	0		20.94		
10	64QAM	1	0		21.09		
10	64QAM	1	25		20.86		
10	64QAM	1	49		20.82		22
10	64QAM	25	0		20.02		
10	64QAM	25	12		19.78		
10	64QAM	25	25		19.95		
10	64QAM	50	0		19.95		21
10	256QAM	1	0		17.83		
10	256QAM	1	25		17.77		
10	256QAM	1	49		17.61		
10	256QAM	25	0		16.71		19
10	256QAM	25	12		16.63		
10	256QAM	25	25		16.50		
10	256QAM	50	0		16.78		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.91	22.95	22.88	24
5	QPSK	1	12	22.73	22.79	22.87	
5	QPSK	1	24	22.89	22.87	22.91	
5	QPSK	12	0	22.02	22.06	21.97	
5	QPSK	12	7	21.78	22.01	21.96	23
5	QPSK	12	13	21.73	21.81	21.81	
5	QPSK	25	0	21.86	21.84	21.92	
5	16QAM	1	0	22.11	22.27	22.12	
5	16QAM	1	12	22.10	21.97	21.93	23
5	16QAM	1	24	22.10	21.97	22.12	
5	16QAM	12	0	21.03	20.93	20.91	
5	16QAM	12	7	20.86	20.98	20.87	
5	16QAM	12	13	20.87	21.08	20.94	22
5	16QAM	25	0	20.94	20.96	20.87	
5	64QAM	1	0	20.90	21.10	20.98	
5	64QAM	1	12	20.81	21.07	20.87	
5	64QAM	1	24	20.89	20.92	20.88	22
5	64QAM	12	0	19.83	20.08	19.84	
5	64QAM	12	7	19.78	19.87	19.83	
5	64QAM	12	13	19.91	19.98	19.87	
5	64QAM	25	0	19.82	19.94	19.76	21
5	256QAM	1	0	17.74	17.75	17.48	
5	256QAM	1	12	17.59	17.61	17.67	
5	256QAM	1	24	17.54	17.43	17.39	
5	256QAM	12	0	16.49	16.72	16.73	19
5	256QAM	12	7	16.45	16.56	16.75	
5	256QAM	12	13	16.70	16.68	16.39	
5	256QAM	25	0	16.50	16.74	16.46	

1.4	16QAM	1	3	21.83	21.91	21.87	23
1.4	16QAM	1	5	21.79	21.75	21.82	
1.4	16QAM	3	0	20.64	20.67	20.88	
1.4	16QAM	3	1	20.69	20.77	20.68	
1.4	16QAM	3	3	20.51	20.80	20.66	
1.4	16QAM	6	0	20.56	20.61	20.77	22
1.4	64QAM	1	0	20.60	20.79	20.79	22
1.4	64QAM	1	3	20.73	20.61	20.61	
1.4	64QAM	1	5	20.60	20.50	20.49	
1.4	64QAM	3	0	19.55	19.63	19.61	
1.4	64QAM	3	1	19.47	19.68	19.61	
1.4	64QAM	3	3	19.65	19.56	19.55	21
1.4	64QAM	6	0	19.46	19.65	19.59	
1.4	256QAM	1	0	17.80	17.86	17.53	19
1.4	256QAM	1	3	17.50	17.67	17.69	
1.4	256QAM	1	5	17.63	17.59	17.56	
1.4	256QAM	3	0	16.46	16.79	16.72	
1.4	256QAM	3	1	16.60	16.58	16.66	
1.4	256QAM	3	3	16.57	16.50	16.50	18
1.4	256QAM	6	0	16.49	16.81	16.49	

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	22.67	22.74	22.65	24
10	QPSK	1	25	22.53	22.43	22.41	
10	QPSK	1	49	22.47	22.51	22.50	
10	QPSK	25	0	21.68	21.73	21.69	23
10	QPSK	25	12	21.57	21.45	21.59	
10	QPSK	25	25	21.47	21.55	21.47	
10	QPSK	50	0	21.49	21.40	21.48	23
10	16QAM	1	0	21.83	21.88	21.75	
10	16QAM	1	25	21.70	21.60	21.75	
10	16QAM	1	49	21.64	21.77	21.56	22
10	16QAM	25	0	20.54	20.74	20.73	
10	16QAM	25	12	20.50	20.57	20.44	
10	16QAM	25	25	20.47	20.66	20.45	22
10	16QAM	50	0	20.45	20.58	20.45	
10	64QAM	1	0	20.61	20.68	20.60	
10	64QAM	1	25	20.50	20.66	20.51	22
10	64QAM	1	49	20.44	20.52	20.42	
10	64QAM	25	0	19.54	19.69	19.50	
10	64QAM	25	12	19.38	19.41	19.50	21
10	64QAM	25	25	19.57	19.41	19.37	
10	64QAM	50	0	19.44	19.38	19.31	
10	256QAM	1	0	17.72	17.71	17.49	19
10	256QAM	1	25	17.63	17.73	17.63	
10	256QAM	1	49	17.58	17.60	17.45	
10	256QAM	25	0	16.54	16.69	16.72	18
10	256QAM	25	12	16.48	16.71	16.71	
10	256QAM	25	25	16.67	16.53	16.52	
10	256QAM	50	0	16.55	16.74	16.50	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	Tune-up limit (dBm)
5	QPSK	1	0	22.63	22.70	22.57	24
5	QPSK	1	12	22.49	22.39	22.38	
5	QPSK	1	24	22.41	22.49	22.50	
5	QPSK	12	0	21.48	21.66	21.56	23
5	QPSK	12	7	21.38	21.58	21.43	
5	QPSK	12	13	21.44	21.54	21.48	
5	QPSK	25	0	21.40	21.45	21.42	23
5	16QAM	1	0	21.82	21.69	21.67	
5	16QAM	1	12	21.71	21.79	21.72	
5	16QAM	1	24	21.51	21.63	21.55	22
5	16QAM	12	0	20.68	20.69	20.65	
5	16QAM	12	7	20.40	20.61	20.59	
5	16QAM	12	13	20.55	20.46	20.43	22
5	16QAM	25	0	20.43	20.44	20.47	
5	64QAM	1	0	20.51	20.56	20.52	
5	64QAM	1	12	20.59	20.64	20.60	22
5	64QAM	1	24	20.41	20.39	20.45	
5	64QAM	12	0	19.62	19.63	19.55	
5	64QAM	12	7	19.31	19.45	19.52	21
5	64QAM	12	13	19.55	19.63	19.52	
5	64QAM	25	0	19.42	19.46	19.44	
5	256QAM	1	0	17.75	17.76	17.59	19
5	256QAM	1	12	17.46	17.67	17.77	
5	256QAM	1	24	17.54	17.44	17.41	
5	256QAM	12	0	16.57	16.72	16.56	18
5	256QAM	12	7	16.50	16.64	16.69	
5	256QAM	12	13	16.53	16.55	16.49	
5	256QAM	25	0	16.50	16.65	16.43	

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	22.74	22.85	22.77	24
20	QPSK	1	49	22.56	22.71	22.67	
20	QPSK	1	99	22.59	22.66	22.58	
20	QPSK	50	0	21.82	21.86	21.74	23
20	QPSK	50	24	21.67	21.79	21.80	
20	QPSK	50	50	21.68	21.75	21.50	
20	QPSK	100	0	21.70	21.78	21.72	23
20	16QAM	1	0	21.93	21.90	21.84	
20	16QAM	1	49	21.98	21.93	22.04	
20	16QAM	1	99	21.94	22.11	21.84	22
20	16QAM	50	0	20.82	20.92	20.90	
20	16QAM	50	24	20.74	20.86	20.70	
20	16QAM	50	50	20.81	20.78	20.71	22
20	16QAM	100	0	20.57	20.79	20.80	
20	64QAM	1	0	20.78	20.96	20.59	
20	64QAM	1	49	20.75	20.78	20.61	22
20	64QAM	1	99	20.97	20.73	20.70	
20	64QAM	50	0	19.78	19.92	19.67	
20	64QAM	50	24	19.70	19.70	19.86	21
20	64QAM	50	50	19.88	19.66	19.69	
20	64QAM	100	0	19.79	19.80	19.53	
20	256QAM	1	0	17.66	17.81	17.49	19
20	256QAM	1	49	17.61	17.67	17.65	
20	256QAM	1	99	17.54	17.57	17.54	
20	256QAM	50	0	16.60	16.85	16.61	18
20	256QAM	50	24	16.56	16.57	16.64	
20	256QAM	50	50	16.61	16.65	16.35	
20	256QAM	100	0	16.61	16.63	16.48	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.71	22.82	22.79	24
15	QPSK	1	37	22.59	22.64	22.48	
15	QPSK	1	74	22.66	22.62	22.65	
15	QPSK	36	0	21.78	21.90	21.68	23
15	QPSK	36	20	21.68	21.85	21.65	
15	QPSK	36	39	21.66	21.81	21.53	
15	QPSK	75	0	21.69	21.73	21.78	23
15	16QAM	1	0	21.98	21.99	21.98	
15	16QAM	1	37	21.99	21.91	22.03	
15	16QAM	1	74	21.80	21.95	21.80	22
15	16QAM	36	0	20.86	20.94	20.88	
15	16QAM	36	20	20.64	20.85	20.81	
15	16QAM	36	39	20.81	20.88	20.64	22
15	16QAM	75	0	20.64	20.75	20.80	
15	64QAM	1	0	20.72	20.95	20.76	
15	64QAM	1	37	20.69	20.84	20.61	22
15	64QAM	1	74	20.80	20.83	20.68	
15	64QAM	36	0	19.76	19.92	19.64	
15	64QAM	36	20	19.78	19.63	19.80	21
15	64QAM	36	39	19.82	19.76	19.61	
15	64QAM	75	0	19.73	19.89	19.56	
15	256QAM	1	0	17.68	17.81	17.49	19
15	256QAM	1	37	17.46	17.80	17.66	
15	256QAM	1	74	17.67	17.62	17.55	
15	256QAM	36	0	16.50	16.72	16.68	18
15	256QAM	36	20	16.55	16.76	16.72	
15	256QAM	36	39	16.56	16.55	16.46	
15	256QAM	75	0	16.49	16.65	16.52	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.74	22.80	22.64	24
10	QPSK	1	25	22.63	22.77	22.50	
10	QPSK	1	49	22.53	22.73	22.48	
10	QPSK	25	0	21.89	21.91	21.68	23
10	QPSK	25	12	21.77	21.98	21.74	
10	QPSK	25	25	21.70	21.82	21.66	
10	QPSK	50	0	21.65	21.71	21.67	23
10	16QAM	1	0	21.90	21.91	21.98	
10	16QAM	1	25	22.00	22.05	22.00	
10	16QAM	1	49	21.94	21.96	21.86	22
10	16QAM	25	0	20.89	20.91	20.89	
10	16QAM	25	12	20.68	20.94	20.74	
10	16QAM	25	25	20.81	20.78	20.68	22
10	16QAM	50	0	20.68	20.74	20.81	
10	64QAM	1	0	20.82	20.83	20.70	
10	64QAM	1	25	20.67	20.71	20.71	22
10	64QAM	1	49	20.96	20.71	20.72	
10	64QAM	25	0	19.67	19.97	19.62	
10	64QAM	25	12	19.90	19.74	19.85	21
10	64QAM	25	25	19.78	19.66	19.60	
10	64QAM	50	0	19.67	19.80	19.55	
10	256QAM	1	0	17.65	17.88	17.56	19
10	256QAM	1	25	17.55	17.81	17.65	
10	256QAM	1	49	17.72	17.44	17.46	
10	256QAM	25	0	16.58	16.79	16.62	18
10	256QAM	25	12	16.55	16.69	16.82	
10	256QAM	25	25	16.66	16.58	16.44	
10	256QAM	50	0	16.49	16.66	16.51	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.76	22.81	22.68	24
5	QPSK	1	12	22.62	22.75	22.61	
5	QPSK	1	24	22.51	22.65	22.50	
5	QPSK	12	0	21.90	21.85	21.83	23
5	QPSK	12	7	21.80	21.91	21.79	
5	QPSK	12	13	21.68	21.92	21.63	
5	QPSK	25	0	21.74	21.69	21.72	23
5	16QAM	1	0	21.96	21.93	21.98	

5	16QAM	1	12	21.92	22.01	22.02	23
5	16QAM	1	24	21.85	22.01	21.80	
5	16QAM	12	0	20.92	21.03	20.91	
5	16QAM	12	7	20.73	20.89	20.89	22
5	16QAM	12	13	20.73	20.76	20.74	
5	16QAM	25	0	20.72	20.59	20.70	
5	64QAM	1	0	20.81	20.88	20.75	
5	64QAM	1	12	20.62	20.74	20.61	22
5	64QAM	1	24	20.86	20.66	20.62	
5	64QAM	12	0	19.61	19.82	19.66	
5	64QAM	12	7	19.71	19.64	19.72	21
5	64QAM	12	13	19.73	19.72	19.58	
5	64QAM	25	0	19.75	19.78	19.59	
5	256QAM	1	0	17.65	17.81	17.46	
5	256QAM	1	12	17.47	17.77	17.75	19
5	256QAM	1	24	17.55	17.60	17.48	
5	256QAM	12	0	16.61	16.69	16.72	
5	256QAM	12	7	16.59	16.57	16.67	18
5	256QAM	12	13	16.60	16.52	16.50	
5	256QAM	25	0	16.46	16.61	16.53	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.62	22.78	22.63	24
3	QPSK	1	8	22.67	22.73	22.50	
3	QPSK	1	14	22.68	22.59	22.62	
3	QPSK	8	0	21.85	21.88	21.76	
3	QPSK	8	4	21.62	21.89	21.85	23
3	QPSK	8	7	21.64	21.78	21.61	
3	QPSK	15	0	21.61	21.63	21.67	
3	16QAM	1	0	21.90	21.92	21.99	
3	16QAM	1	8	21.84	21.89	21.99	23
3	16QAM	1	14	21.95	22.01	21.73	
3	16QAM	8	0	20.98	20.87	20.94	
3	16QAM	8	4	20.77	20.84	20.77	22
3	16QAM	8	7	20.74	20.87	20.74	
3	16QAM	15	0	20.60	20.75	20.80	
3	64QAM	1	0	20.66	20.89	20.64	
3	64QAM	1	8	20.61	20.78	20.78	22
3	64QAM	1	14	20.92	20.68	20.74	
3	64QAM	8	0	19.66	19.91	19.65	
3	64QAM	8	4	19.82	19.65	19.76	21
3	64QAM	8	7	19.77	19.83	19.65	
3	64QAM	15	0	19.76	19.79	19.56	
3	256QAM	1	0	17.69	17.71	17.63	
3	256QAM	1	8	17.51	17.63	17.71	19
3	256QAM	1	14	17.62	17.56	17.47	
3	256QAM	8	0	16.56	16.79	16.63	
3	256QAM	8	4	16.61	16.60	16.71	18
3	256QAM	8	7	16.61	16.58	16.68	
3	256QAM	15	0	16.49	16.61	16.56	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.71	22.79	22.73	24
1.4	QPSK	1	3	22.75	22.66	22.59	
1.4	QPSK	1	5	22.51	22.63	22.57	
1.4	QPSK	3	0	21.78	21.91	21.84	
1.4	QPSK	3	1	21.73	21.83	21.69	
1.4	QPSK	3	3	21.73	21.79	21.57	
1.4	QPSK	6	0	21.69	21.66	21.81	23
1.4	16QAM	1	0	21.93	21.93	21.86	
1.4	16QAM	1	3	22.01	22.05	21.95	
1.4	16QAM	1	5	21.80	22.00	21.72	23
1.4	16QAM	3	0	20.85	20.90	20.78	
1.4	16QAM	3	1	20.61	20.82	20.81	
1.4	16QAM	3	3	20.70	20.91	20.75	
1.4	16QAM	6	0	20.67	20.65	20.63	22
1.4	64QAM	1	0	20.73	20.93	20.67	
1.4	64QAM	1	3	20.76	20.66	20.61	
1.4	64QAM	1	5	20.91	20.84	20.66	22
1.4	64QAM	3	0	19.62	19.80	19.60	
1.4	64QAM	3	1	19.79	19.75	19.83	
1.4	64QAM	3	3	19.75	19.66	19.71	
1.4	64QAM	6	0	19.85	19.87	19.69	21
1.4	256QAM	1	0	17.69	17.73	17.65	
1.4	256QAM	1	3	17.57	17.76	17.76	
1.4	256QAM	1	5	17.61	17.57	17.55	19
1.4	256QAM	3	0	16.57	16.74	16.73	
1.4	256QAM	3	1	16.55	16.69	16.83	
1.4	256QAM	3	3	16.52	16.50	16.47	
1.4	256QAM	6	0	16.56	16.74	16.60	18

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	Tune-up limit (dBm)	
Frequency (MHz)				3560	3609	3625	3641	3690		
20	QPSK	1	0	22.06	22.09	22.12	22.07	21.99	23	
20	QPSK	1	49	21.56	21.58	21.58	21.61	21.60		
20	QPSK	1	99	21.62	21.60	21.62	21.42	21.56		
20	QPSK	50	0	21.16	21.07	21.19	21.02	20.92	22	
20	QPSK	50	24	20.61	20.60	20.66	20.70	20.59		
20	QPSK	50	50	20.61	20.52	20.74	20.55	20.39		
20	QPSK	100	0	20.63	20.54	20.63	20.56	20.37	22	
20	16QAM	1	0	20.89	20.84	20.94	20.89	20.74		
20	16QAM	1	49	20.79	20.91	20.76	20.69	20.60		
20	16QAM	1	99	20.77	20.69	20.82	20.78	20.63	21	
20	16QAM	50	0	19.55	19.71	19.63	19.70	19.57		
20	16QAM	50	24	19.57	19.58	19.66	19.54	19.38		
20	16QAM	50	50	19.55	19.48	19.68	19.41	19.32	21	
20	16QAM	100	0	19.58	19.52	19.62	19.56	19.42		
20	64QAM	1	0	19.75	19.76	19.80	19.59	19.66		
20	64QAM	1	49	19.75	19.67	19.71	19.65	19.58	21	
20	64QAM	1	99	19.56	19.53	19.72	19.63	19.44		
20	64QAM	50	0	19.55	19.55	19.69	19.59	19.41		
20	64QAM	50	24	19.44	19.58	19.56	19.57	19.45	20	
20	64QAM	50	50	19.60	19.45	19.55	19.46	19.36		
20	64QAM	100	0	19.55	19.45	19.63	19.49	19.31		
20	256QAM	1	0	16.56	16.50	16.57	16.44	16.29	17	
20	256QAM	1	49	16.44	16.40	16.46	16.46	16.50		
20	256QAM	1	99	16.44	16.36	16.26	16.24	16.34		
20	256QAM	50	0	15.29	15.36	15.62	15.44	15.34	17	
20	256QAM	50	24	15.35	15.39	15.52	15.51	15.47		
20	256QAM	50	50	15.34	15.50	15.33	15.25	15.31		
20	256QAM	100	0	15.34	15.38	15.54	15.22	15.19		
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	21.60	21.66	21.68	21.67	21.62	23	
15	QPSK	1	37	21.54	21.57	21.57	21.61	21.60		
15	QPSK	1	74	21.56	21.62	21.62	21.62	21.52		
15	QPSK	36	0	20.66	20.77	20.72	20.76	20.66	22	
15	QPSK	36	20	20.68	20.65	20.70	20.78	20.72		
15	QPSK	36	39	20.69	20.70	20.72	20.60	20.58		
15	QPSK	75	0	20.59	20.55	20.67	20.61	20.71	22	
15	16QAM	1	0	20.95	20.77	20.91	20.91	20.93		
15	16QAM	1	37	20.89	20.72	20.76	20.82	20.78		
15	16QAM	1	74	20.77	20.67	20.80	20.93	20.66	21	
15	16QAM	36	0	19.53	19.70	19.70	19.80	19.61		
15	16QAM	36	20	19.50	19.65	19.61	19.78	19.55		
15	16QAM	36	39	19.47	19.49	19.57	19.65	19.57	21	
15	16QAM	75	0	19.49	19.43	19.53	19.78	19.61		
15	64QAM	1	0	19.70	19.74	19.72	19.75	19.82		
15	64QAM	1	37	19.71	19.72	19.64	19.65	19.68	21	
15	64QAM	1	74	19.67	19.62	19.54	19.70	19.60		
15	64QAM	36	0	19.47	19.53	19.56	19.69	19.66		
15	64QAM	36	20	19.53	19.58	19.41	19.62	19.52	20	
15	64QAM	36	39	19.47	19.43	19.63	19.70	19.55		
15	64QAM	75	0	19.44	19.49	19.44	19.52	19.40		
15	256QAM	1	0	16.56	16.52	16.52	16.37	16.26	17	
15	256QAM	1	37	16.29	16.25	16.43	16.44	16.62		
15	256QAM	1	74	16.53	16.45	16.34	16.26	16.28		
15	256QAM	36	0	15.31	15.24	15.59	15.43	15.38	17	
15	256QAM	36	20	15.44	15.28	15.54	15.48	15.50		
15	256QAM	36	39	15.35	15.52	15.34	15.29	15.24		
15	256QAM	75	0	15.35	15.35	15.46	15.15	15.27		
Channel				55290	55815	55990	56165	56690	Tune-up limit (dBm)	
Frequency (MHz)				3555	3607.5	3625	3642.5	3695		
10	QPSK	1	0	21.58	21.65	21.67	21.56	21.51	23	
10	QPSK	1	25	21.62	21.53	21.68	21.58	21.34		
10	QPSK	1	49	21.53	21.63	21.65	21.50	21.49		
10	QPSK	25	0	20.75	20.72	20.84	20.73	20.54	22	
10	QPSK	25	12	20.71	20.66	20.64	20.55	20.61		
10	QPSK	25	25	20.59	20.62	20.62	20.55	20.55		
10	QPSK	50	0	20.60	20.62	20.76	20.57	20.51	22	
10	16QAM	1	0	20.93	20.93	20.83	20.79	20.68		
10	16QAM	1	25	20.73	20.77	20.75	20.79	20.67		
10	16QAM	1	49	20.83	20.65	20.78	20.81	20.65	21	
10	16QAM	25	0	19.54	19.56	19.66	19.65	19.61		
10	16QAM	25	12	19.55	19.62	19.74	19.55	19.36		
10	16QAM	25	25	19.47	19.45	19.52	19.60	19.41	21	
10	16QAM	50	0	19.48	19.52	19.67	19.62	19.50		
10	64QAM	1	0	19.74	19.73	19.72	19.75	19.63		
10	64QAM	1	25	19.63	19.64	19.81	19.53	19.47	21	
10	64QAM	1	49	19.52	19.65	19.71	19.63	19.45		
10	64QAM	25	0	19.64	19.54	19.70	19.47	19.54		
10	64QAM	25	12	19.45	19.43	19.53	19.55	19.49	20	
10	64QAM	25	25	19.53	19.45	19.52	19.40	19.38		
10	64QAM	50	0	19.40	19.36	19.61	19.46	19.30		
10	256QAM	1	0	16.53	16.52	16.50	16.37	16.33	16	
10	256QAM	1	25	16.27	16.30	16.48	16.58	16.52		
10	256QAM	1	49	16.51	16.49	16.24	16.20	16.26		
10	256QAM	25	0	15.38	15.42	15.63	15.34	15.47	16	
10	256QAM	25	12	15.42	15.41	15.53	15.60	15.52		
10	256QAM	25	25	15.52	15.34	15.41	15.29	15.23		
10	256QAM	50	0	15.30	15.30	15.60	15.26	15.27		
Channel				55265	55810	55990	56170	56175	Tune-up limit (dBm)	
Frequency (MHz)				3552.5	3607	3625	3643	3687.5		
5	QPSK	1	0	21.63	21.62	21.65	21.59	21.51	23	
5	QPSK	1	12	21.54	21.60	21.59	21.50	21.42		
5	QPSK	1	24	21.52	21.52	21.53	21.51	21.42		
5	QPSK	12	0	20.82	20.83	20.73	20.68	20.69	22	
5	QPSK	12	7	20.73	20.55	20.82	20.60	20.42		
5	QPSK	12	13	20.54	20.70	20.72	20.58	20.39		
5	QPSK	25	0	20.62	20.59	20.59	20.59	20.39	22	
5	16QAM	1	0	20.85	20.92	20.84	20.73	20.76		

5	16QAM	1	12	20.77	20.89	20.80	20.66	20.58	22
5	16QAM	1	24	20.81	20.71	20.83	20.78	20.53	
5	16QAM	12	0	19.64	19.52	19.68	19.62	19.59	21
5	16QAM	12	7	19.59	19.54	19.61	19.49	19.44	
5	16QAM	12	13	19.45	19.56	19.69	19.50	19.40	
5	16QAM	25	0	19.60	19.45	19.59	19.59	19.46	
5	64QAM	1	0	19.79	19.66	19.74	19.67	19.61	21
5	64QAM	1	12	19.65	19.63	19.69	19.61	19.46	
5	64QAM	1	24	19.60	19.56	19.67	19.63	19.53	
5	64QAM	12	0	19.56	19.62	19.52	19.48	19.39	
5	64QAM	12	7	19.41	19.42	19.44	19.49	19.56	20
5	64QAM	12	13	19.63	19.62	19.49	19.59	19.46	
5	64QAM	25	0	19.55	19.42	19.44	19.42	19.37	
5	256QAM	1	0	16.59	16.56	16.52	16.31	16.40	
5	256QAM	1	12	16.36	16.29	16.43	16.47	16.59	18
5	256QAM	1	24	16.47	16.50	16.40	16.34	16.20	
5	256QAM	12	0	15.41	15.41	15.54	15.38	15.50	
5	256QAM	12	7	15.37	15.40	15.55	15.56	15.61	
5	256QAM	12	13	15.33	15.41	15.33	15.29	15.29	17
5	256QAM	25	0	15.30	15.27	15.56	15.28	15.32	

n2 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				372000	376000	380000	(dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.89	22.70	22.27	23.50
20		1	53	22.85	22.50	22.57	
20		1	104	22.74	22.37	22.55	
20		50	1	22.64	22.57	22.80	23.50
20	DFT-s-OFDM QPSK	50	25	22.94	22.60	22.86	
20		50	50	22.74	22.59	22.60	
20		100	0	22.69	22.72	22.73	
20		1	1	23.30	23.35	23.26	24.50
20	DFT-s-OFDM 16QAM	1	53	23.20	23.17	23.14	
20		1	104	23.09	23.07	23.02	
20		50	1	22.90	22.95	22.84	23.50
20		50	25	22.79	22.59	22.74	
20	DFT-s-OFDM 64QAM	50	50	22.58	22.45	22.29	
20		100	0	22.50	22.59	22.46	
20	DFT-s-OFDM 256QAM	1	1	21.86	21.65	21.26	22.50
20	CP-OFDM QPSK	1	1	20.44	20.17	19.78	21.00
20	CP-OFDM 16QAM	1	1	18.21	18.00	17.59	18.50
20	CP-OFDM 64QAM	1	1	21.44	21.17	20.76	22.50
20	CP-OFDM 256QAM	1	1	20.86	20.63	20.21	21.50
20		1	1	19.26	18.93	18.59	20.00
20		1	1	16.22	15.96	15.59	17.00
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.16	22.60	22.41	23.50
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	22.71	22.68	21.99	23.50
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	22.96	22.39	21.83	23.50

n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				166800	167300	167800	(dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.90	22.88	22.95	23.50
20		1	53	22.94	22.93	22.88	
20		1	104	22.80	22.76	22.75	
20		50	1	22.69	22.62	22.73	23.50
20		50	25	23.00	23.01	23.02	
20		50	50	22.71	22.67	22.63	
20		100	0	22.73	22.72	22.72	
20	DFT-s-OFDM QPSK	1	1	22.97	23.06	22.94	23.50
20		1	53	22.90	22.95	22.92	
20		1	104	22.82	22.80	22.72	
20		50	1	22.17	22.16	22.15	22.50
20		50	25	21.73	21.85	21.96	
20		50	50	21.85	21.77	21.73	
20		100	0	21.78	21.94	21.82	
20	DFT-s-OFDM 16QAM	1	1	22.12	22.16	22.17	22.50
20	DFT-s-OFDM 64QAM	1	1	20.52	20.63	20.63	21.20
20	DFT-s-OFDM 256QAM	1	1	18.39	18.43	18.46	19.50
20	CP-OFDM QPSK	1	1	21.62	21.71	21.63	22.50
20	CP-OFDM 16QAM	1	1	21.02	21.12	21.12	22.00
20	CP-OFDM 64QAM	1	1	19.19	19.29	19.26	20.00
20	CP-OFDM 256QAM	1	1	16.40	16.51	16.49	17.50
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	22.90	22.95	22.95	23.50
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	(dBm)
10	DFT-s-OFDM QPSK	1	1	22.68	22.79	22.77	23.50
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	22.74	22.82	22.76	23.50

n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	22.63	22.64	22.52	23.50
30		1	80	22.69	22.60	22.52	
30		1	158	22.51	22.40	22.46	
30		80	1	22.25	22.15	22.01	23.50
30		80	40	22.77	22.67	22.57	
30		80	80	22.25	22.12	22.08	
30		160	0	22.31	22.19	22.09	
30	DFT-s-OFDM QPSK	1	1	23.07	23.09	23.05	24.00
30		1	80	22.72	22.69	22.61	
30		1	158	22.57	22.50	22.60	
30		80	1	21.71	21.75	21.69	23.00
30		80	40	21.53	21.56	21.58	
30		80	80	21.70	21.65	21.63	
30		160	0	21.60	21.65	21.52	
30	DFT-s-OFDM 16QAM	1	1	21.58	21.63	21.50	22.50
30	DFT-s-OFDM 64QAM	1	1	20.12	20.12	19.96	21.00
30	DFT-s-OFDM 256QAM	1	1	17.93	17.92	17.79	18.50
30	CP-OFDM QPSK	1	1	21.11	21.19	21.10	22.00
30	CP-OFDM 16QAM	1	1	20.50	20.54	20.42	21.50
30	CP-OFDM 64QAM	1	1	18.81	18.81	18.65	19.50
30	CP-OFDM 256QAM	1	1	15.95	15.99	15.85	16.50
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	22.92	22.88	22.91	23.50
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	22.78	22.76	22.70	23.50
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	22.90	22.97	22.56	23.50
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	22.88	23.01	22.44	23.50

n77(3450-3550MHz) (PC2)									
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			26.15			27.50
100		1	136			25.90			
100		1	271			25.83			
100		135	1			25.56			27.00
100	DFT-s-OFDM QPSK	135	67			26.06			
100		135	136			25.14			
100		270	0			25.51			
100		1	1			26.67			27.50
100	DFT-s-OFDM 16QAM	1	136			25.97			
100		1	271			25.87			
100		135	1			25.06			27.00
100		135	67			26.03			
100		135	136			24.62			
100		270	0			25.01			
100	DFT-s-OFDM 64QAM	1	1			25.09			26.00
100	DFT-s-OFDM 256QAM	1	1			23.75			24.50
100	CP-OFDM QPSK	1	1			21.46			22.50
100	CP-OFDM 16QAM	1	1			24.59			25.50
100	CP-OFDM 64QAM	1	1			24.11			25.00
100	CP-OFDM 256QAM	1	1			22.29			23.50
100	CP-OFDM 256QAM	1	1			19.53			20.50
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	26.10	26.09	25.98	25.94	25.97	27.50
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	26.25	26.14	26.18	26.09	26.07	27.50
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	26.61	26.55	26.59	26.46	26.32	27.50
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	26.61	26.48	26.39	26.35	26.00	27.50
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	26.39	26.38	26.33	26.17	25.90	27.50

n77(3450-3550MHz) (PC3)									
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			23.05			24.00
100		1	136			22.76			
100		1	271			22.23			
100		135	1			23.09			24.00
100		135	67			22.84			
100		135	136			22.21			
100		270	0			22.82			
100	DFT-s-OFDM QPSK	1	1			23.41			25.00
100		1	136			23.19			
100		1	271			23.22			
100		135	1			22.95			24.00
100		135	67			22.84			
100		135	136			22.19			
100		270	0			22.84			
100	DFT-s-OFDM 16QAM	1	1			23.17			24.00
100	DFT-s-OFDM 64QAM	1	1			23.29			24.00
100	DFT-s-OFDM 256QAM	1	1			21.61			22.50
100	CP-OFDM QPSK	1	1			23.32			24.50
100	CP-OFDM 16QAM	1	1			23.37			24.50
100	CP-OFDM 64QAM	1	1			22.43			23.50
100	CP-OFDM 256QAM	1	1			19.62			20.50
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	23.30	23.30	23.19	23.12	23.09	24.00
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	22.94	22.90	22.84	22.74	23.19	24.00
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	23.12	23.04	23.03	22.97	22.72	24.00
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	23.13	23.02	22.98	22.84	22.45	24.00
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	23.07	22.98	22.97	22.68	22.36	24.00

n77(3700-3980MHz) (PC2)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	High Channel	High Channel	Tune-up
Channel				650000	653000	656000	659000	662000	limit
Frequency (MHz)				3750	3795	3840	3885	3930	(dBm)
100	DFT-s-OFDM PI/2 BPSK	1	1	25.26	25.51	25.28	25.50	25.85	26.50
100		1	136	25.47	25.42	25.53	25.64	25.39	
100		1	271	25.32	25.64	25.62	25.21	25.82	
100		135	1	25.17	24.92	24.84	24.88	25.20	26.50
100		135	67	25.51	25.48	25.61	25.67	25.55	
100		135	136	24.79	24.81	24.83	24.88	25.17	
100	DFT-s-OFDM QPSK	270	0	24.93	25.04	25.17	25.15	25.18	27.50
100		1	1	25.22	25.50	26.23	25.51	25.34	
100		1	136	25.50	25.38	25.63	25.88	25.42	
100		1	271	25.40	25.59	25.64	25.37	25.86	26.50
100		135	1	24.69	24.44	24.37	24.81	24.73	
100		135	67	25.51	25.44	25.64	26.00	25.52	
100	DFT-s-OFDM 16QAM	135	136	24.28	24.29	24.38	24.61	24.64	26.50
100		270	0	24.41	24.44	24.67	24.98	24.71	
100		1	1	24.08	24.41	24.23	24.80	24.83	25.50
100	DFT-s-OFDM 64QAM	1	1	22.70	23.06	22.89	23.46	23.42	24.00
100	DFT-s-OFDM 256QAM	1	1	20.47	20.75	20.66	21.16	21.15	21.50
100	CP-OFDM QPSK	1	1	23.71	24.06	23.84	24.44	24.35	25.00
100	CP-OFDM 16QAM	1	1	23.27	23.53	23.37	23.97	23.88	24.50
100	CP-OFDM 64QAM	1	1	21.38	21.62	21.46	22.10	22.02	22.50
100	CP-OFDM 256QAM	1	1	18.53	18.80	18.67	19.24	19.14	19.50
Channel				649334	652668	656000	659332	662666	Tune-up
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	limit
80	DFT-s-OFDM QPSK	1	1	25.27	25.64	25.45	25.51	25.47	26.50
Channel				648668	652334	656000	659666	663332	Tune-up
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	limit
60	DFT-s-OFDM QPSK	1	1	25.45	25.66	25.47	25.65	25.34	26.50
Channel				648000	652000	656000	660000	664000	Tune-up
Frequency (MHz)				3720	3780	3840	3900	3960	limit
40	DFT-s-OFDM QPSK	1	1	25.50	25.67	25.55	25.73	25.42	26.50
Channel				647668	651834	656000	660166	664332	Tune-up
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	limit
30	DFT-s-OFDM QPSK	1	1	25.20	25.42	25.43	25.71	25.28	26.50
Channel				647334	651668	656000	660332	664666	Tune-up
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	limit
20	DFT-s-OFDM QPSK	1	1	25.30	25.58	25.58	25.70	25.47	26.50

n77(3700-3980MHz) (PC3)									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	High Channel	High Channel	Tune-up
Channel				650000	653000	656000	659000	662000	limit
Frequency (MHz)				3750	3795	3840	3885	3930	(dBm)
100	DFT-s-OFDM PI/2 BPSK	1	1	22.32	22.40	22.30	22.44	22.07	23.50
100		1	136	22.39	22.34	22.47	22.07	21.65	
100		1	271	22.30	22.43	22.01	21.69	22.49	
100		135	1	22.73	22.28	22.25	22.14	21.82	23.50
100		135	67	22.49	22.42	22.56	22.21	21.67	
100		135	136	22.17	22.21	22.05	21.77	22.03	
100	DFT-s-OFDM QPSK	270	0	22.44	22.44	22.51	22.26	21.82	24.00
100		1	1	22.90	22.94	22.98	22.80	22.97	
100		1	136	22.72	22.68	22.83	22.70	22.63	
100		1	271	22.56	22.50	22.59	22.56	22.56	23.00
100		135	1	22.39	22.43	22.46	22.41	22.37	
100		135	67	22.36	22.32	22.35	22.29	22.35	
100	DFT-s-OFDM 16QAM	135	136	22.17	22.21	22.05	22.26	22.04	23.00
100		270	0	22.35	22.34	22.25	22.30	22.38	
100		1	1	22.28	22.33	22.30	22.35	22.05	
100		1	1	22.31	22.33	22.38	22.45	22.06	
100	DFT-s-OFDM 64QAM	1	1	20.66	20.65	20.65	20.79	20.39	21.50
100	DFT-s-OFDM 256QAM	1	1	22.36	22.35	22.34	22.51	22.10	23.50
100	CP-OFDM QPSK	1	1	22.39	22.38	22.35	22.54	22.11	23.50
100	CP-OFDM 16QAM	1	1	21.50	21.48	21.48	21.58	21.23	22.50
100	CP-OFDM 64QAM	1	1	18.70	18.66	18.65	18.77	18.41	19.50
100	CP-OFDM 256QAM	1	1	649334	652668	656000	659332	662666	Tune-up
Channel				3740.01	3790.02	3840	3889.98	3939.99	limit
80	DFT-s-OFDM QPSK	1	1	22.36	22.39	22.27	22.29	21.83	23.50
Channel				648668	652334	656000	659666	663332	Tune-up
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	limit
60	DFT-s-OFDM QPSK	1	1	22.39	22.46	22.38	22.17	21.52	23.50
Channel				648000	652000	656000	660000	664000	Tune-up
Frequency (MHz)				3720	3780	3840	3900	3960	limit
40	DFT-s-OFDM QPSK	1	1	22.74	22.85	22.76	22.54	22.21	23.50
Channel				647668	651834	656000	660166	664332	Tune-up
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	limit
30	DFT-s-OFDM QPSK	1	1	22.78	22.75	22.69	22.39	22.30	23.50
Channel				647334	651668	656000	660332	664666	Tune-up
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	limit
20	DFT-s-OFDM QPSK	1	1	22.68	22.68	22.73	22.16	22.41	23.50

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	20.24	21.00
55990	55891	56089	QPSK	1	0	0	0	1	0	20.29	21.00
56640	56442	56640	QPSK	1	0	0	0	1	0	20.20	21.00
55340	55340	55538	16QAM	1	0	0	0	1	0	20.18	21.00
55990	55891	56089	16QAM	1	0	0	0	1	0	20.24	21.00
56640	56442	56640	16QAM	1	0	0	0	1	0	20.16	21.00
55340	55340	55538	64QAM	1	0	0	0	1	0	20.12	21.00
55990	55891	56089	64QAM	1	0	0	0	1	0	20.13	21.00
56640	56442	56640	64QAM	1	0	0	0	1	0	20.10	21.00
55340	55340	55538	256QAM	1	0	0	0	1	0	19.77	20.50
55990	55891	56089	256QAM	1	0	0	0	1	0	19.75	20.50
56640	56442	56640	256QAM	1	0	0	0	1	0	19.82	20.50
55340	55340	55538	QPSK	50	0	0	0	1	0	18.77	19.50
55990	55891	56089	QPSK	50	0	0	0	1	0	18.84	19.50
56640	56442	56640	QPSK	50	0	0	0	1	0	18.79	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	22.22	23.00
132322	132373	132472	QPSK	1	0	0	0	1	0	22.46	23.00
132572	132523	132622	QPSK	1	0	0	0	1	0	22.31	23.00
132072	132022	132121	16QAM	1	0	0	0	1	0	21.96	22.50
132322	132373	132472	16QAM	1	0	0	0	1	0	22.20	23.00
132572	132523	132622	16QAM	1	0	0	0	1	0	22.05	22.50
132072	132022	132121	64QAM	1	0	0	0	1	0	21.80	22.50
132322	132373	132472	64QAM	1	0	0	0	1	0	22.04	22.50
132572	132523	132622	64QAM	1	0	0	0	1	0	21.89	22.50
132072	132022	132121	256QAM	1	0	0	0	1	0	21.69	22.50
132322	132373	132472	256QAM	1	0	0	0	1	0	21.93	22.50
132572	132523	132622	256QAM	1	0	0	0	1	0	21.78	22.50
132072	132022	132121	QPSK	50	0	0	0	1	0	21.30	22.00
132322	132373	132472	QPSK	50	0	0	0	1	0	21.37	22.00
132572	132523	132622	QPSK	50	0	0	0	1	0	21.31	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	22.10	23.00
132322	132323	132521	QPSK	1	0	0	0	1	0	22.14	23.00
132572	132374	132572	QPSK	1	0	0	0	1	0	22.19	23.00
132072	132072	132270	16QAM	1	0	0	0	1	0	21.98	23.00
132322	132323	132521	16QAM	1	0	0	0	1	0	22.01	23.00
132572	132374	132572	16QAM	1	0	0	0	1	0	22.08	23.00
132072	132072	132270	64QAM	1	0	0	0	1	0	21.89	23.00
132322	132323	132521	64QAM	1	0	0	0	1	0	21.92	23.00
132572	132374	132572	64QAM	1	0	0	0	1	0	21.99	23.00
132072	132072	132270	256QAM	1	0	0	0	1	0	21.81	23.00
132322	132323	132521	256QAM	1	0	0	0	1	0	21.84	23.00
132572	132374	132572	256QAM	1	0	0	0	1	0	21.91	23.00
132072	132072	132270	QPSK	50	0	0	0	1	0	21.06	22.00
132322	132323	132521	QPSK	50	0	0	0	1	0	21.10	22.00
132572	132374	132572	QPSK	50	0	0	0	1	0	21.18	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	22.22	23.00
	CA_2A-5A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	21.74	22.50
	CA_2A-13A	2	20	18700	1860	QPSK/1#0	13	10	23230	782	21.75	23.00
	CA_2A-66A	2	20	18700	1860	QPSK/1#0	66	20	132572	1770	22.16	23.00
	CA_4A-5A	4	20	20050	1720	QPSK/1#0	5	10	20600	844	21.56	22.50
	CA_4A-13A	4	20	20050	1720	QPSK/1#0	13	10	23230	782	21.55	22.50
	CA_5A-66A	5	10	20450	829	QPSK/1#0	66	20	132572	1770	23.02	24.00
	CA_13A-66A	13	10	23230	782	QPSK/1#0	66	20	132572	1770	21.83	22.50

2CC LTE Downlink												
Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Channel	UL Freq. (MHz)	UL Mode (Modulation, RS/Offset)	Band	BW (MHz)	UL Channel	UL Freq. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band&Inter-band	CA_4A-13A	4	10	20175	1732.5	QPSK1/80	13	20	23230	782	21.64	22.85
	CA_4A-48A	4	20	20050	1720	QPSK1/80	48	20	56640	3690	21.55	22.85
	CA_4A-5A	4	10	20175	1732.5	QPSK1/80	5	10	20450	829	21.5	22.85
	CA_66B	66	10	13273	1750.1	QPSK1/80	66	10	132472	1760	21.67	22.98
	CA_66C	66	20	132072	1720	QPSK1/80	66	20	132270	1736.8	21.79	22.98

3CC LTE Downlink																
Configure	CA Configuration	PCC					SCC1				SCC2				Power	
		Band	BW (MHz)	UL Channel	UL Freq. (MHz)	UL Mode (Modulation, RS/Offset)	Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Band	BW (MHz)	UL Channel	UL Freq. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band&Inter-band	CA_13A-48A-66A	13	10	23230	782	QPSK1/80	48	20	56640	3690	66	20	67236	2190	21.82	23.11
	CA_13A-66A-66A	13	10	23230	782	QPSK1/80	66	20	66886	2155	66	20	67236	2190	22.04	23.11
	CA_13A-66B	13	10	23230	782	QPSK1/80	66	10	67187	2185.1	66	10	67286	2195	22.01	23.11
	CA_13A-66C	13	10	23230	782	QPSK1/80	66	20	67038	2170.2	66	20	67236	2190	22.24	23.11
	CA_2A-13A-48A	2	20	18700	1860	QPSK1/80	13	10	23230	782	48	20	56640	3690	22.48	22.81
	CA_2A-48A-66A	2	20	18700	1860	QPSK1/80	48	20	56089	3634.9	66	20	67236	2190	22.53	22.81
	CA_2A-4A-13A	2	20	18700	1860	QPSK1/80	4	20	20300	2145	13	10	23230	782	21.15	22.81
	CA_2A-4A-5A	2	20	18700	1860	QPSK1/80	4	20	20300	2145	5	10	20600	844	22.22	22.81
	CA_2A-5A-48A	2	20	18700	1860	QPSK1/80	5	10	20600	844	48	20	56089	3634.9	22.4	22.81
	CA_2A-66B	2	20	18700	1860	QPSK1/80	66	10	67187	2185.1	66	10	67286	2195	22.12	22.81
	CA_48A-66A-66A	48	20	55340	3560	QPSK1/80	66	20	66886	2155	66	20	67236	2190	22.04	22.23
	CA_48A-66B	48	20	55340	3560	QPSK1/80	66	10	67187	2185.1	66	10	67286	2195	22.09	22.23
	CA_48A-66C	48	20	55340	3560	QPSK1/80	66	20	67038	2170.2	66	20	67236	2190	21.75	22.23
	CA_4A-48C	4	20	20050	1720	QPSK1/80	48	20	56442	3670.2	48	20	56640	3690	22.42	22.85
	CA_4A-4A-13A	4	20	20050	1720	QPSK1/80	4	20	20000	1745	13	10	23230	782	21.93	22.85
	CA_4A-4A-5A	4	20	20050	1720	QPSK1/80	4	20	20000	1745	5	10	20600	844	22.29	22.85
	CA_5A-66A-66A	5	10	20450	829	QPSK1/80	66	20	66886	2155	66	20	67236	2190	20.58	23.09
	CA_5A-66B	5	10	20450	829	QPSK1/80	66	10	67187	2185.1	66	10	67286	2195	20.66	23.09
	CA_5A-66C	5	10	20450	829	QPSK1/80	66	20	67038	2170.2	66	20	67236	2190	20.96	23.09
	CA_66A-66A-66A	66	20	132072	1720	QPSK1/80	66	20	66886	2155	66	20	67236	2190	20.65	22.98
	CA_13A-48C	13	10	23230	782	QPSK1/80	48	20	56442	3670.2	48	20	56640	3690	22.01	23.11
	CA_2A-66C	2	20	18700	1860	QPSK1/80	66	20	67038	2170.2	66	20	67236	2190	21.77	22.81
	CA_5A-48A-66A	5	10	20450	829	QPSK1/80	48	20	56089	3634.9	66	20	67236	2190	22.04	23.09

4CC LTE Downlink																				
Configure	CA Configuration	PCC					SCC1				SCC2				SCC3		Power			
		Band	BW (MHz)	UL Channel	UL Freq (MHz)	UL Mode (Modulation, RS/Offset)	Band	BW (MHz)	UL Channel	UL Freq (MHz)	Band	BW (MHz)	UL Channel	UL Freq (MHz)	Band	BW (MHz)	UL Channel	UL Freq (MHz)	CA Tx (dBm)	Rel 8 Tx (dBm)
Intra-band/inter-band	CA_13A-48A-66B	13	10	23230	782	QPSK1/80	48	10	56640	3690	66	10	67187	2185.1	66	10	67286	2195	23	23.11
	CA_13A-48A-66C	13	10	23230	782	QPSK1/80	48	10	56640	3690	66	20	67038	2170.2	66	10	67236	2190	23.16	23.11
	CA_13A-48C-66A	13	10	23230	782	QPSK1/80	48	20	56442	3670.2	48	20	56640	3690	66	20	67236	2190	23.07	23.11
	CA_2A-13A-48C	2	20	18700	1860	QPSK1/80	13	10	23230	782	48	20	56442	3670.2	48	20	56640	3690	22.09	22.81
	CA_2A-13A-66A-66A	2	20	18700	1860	QPSK1/80	13	10	23230	782	66	20	66886	2155	66	20	67236	2190	22.66	22.81
	CA_2A-13A-66B	2	20	18700	1860	QPSK1/80	13	10	23230	782	66	10	67187	2185.1	66	10	67286	2195	22.62	22.81
	CA_2A-13A-66C	2	20	18700	1860	QPSK1/80	13	10	23230	782	66	20	67038	2170.2	66	20	67236	2190	22.78	22.81
	CA_2A-2A-4A-4A	2	20	18700	1860	QPSK1/80	2	20	19100	1900	4	20	20050	1720	4	20	20300	1745	22.82	22.81
	CA_2A-2A-4A-5A	2	20	18700	1860	QPSK1/80	2	20	19100	1900	4	20	20300	1745	5	10	20600	844	22.64	22.81
	CA_2A-2A-66A-66A	2	20	18700	1860	QPSK1/80	2	20	19100	1900	66	20	66886	2155	66	20	67236	2190	22.81	22.81
	CA_2A-2A-66B	2	20	18700	1860	QPSK1/80	2	20	19100	1900	66	10	67187	2185.1	66	10	67286	2195	22.81	22.81
	CA_2A-2A-66C	2	20	18700	1860	QPSK1/80	2	20	19100	1900	66	20	67038	2170.2	66	20	67236	2190	22.75	22.81
	CA_2A-48C-66A	2	20	18700	1860	QPSK1/80	48	20	55891	3615.1	48	20	56089	3634.9	66	20	67236	2190	22.72	22.81
	CA_2A-4A-4A-5A	2	20	18700	1860	QPSK1/80	4	20	20050	1720	4	20	20300	1745	5	10	20600	844	22.88	22.81
	CA_2A-5A-48C	2	20	18700	1860	QPSK1/80	5	10	20600	844	48	20	55891	3615.1	48	20	56089	3634.9	22.81	22.81
	CA_2A-5A-66A-66A	2	20	18700	1860	QPSK1/80	5	10	20600	844	66	20	66886	2155	66	20	67236	2190	23.03	22.81
	CA_2A-5A-66B	2	20	18700	1860	QPSK1/80	5	10	20600	844	66	10	67187	2185.1	66	10	67286	2195	22.77	22.81
	CA_2A-5A-66C	2	20	18700	1860	QPSK1/80	5	10	20600	844	66	20	67038	2170.2	66	20	67236	2190	22.72	22.81
	CA_2A-66A-66A-66A	2	20	18700	1860	QPSK1/80	66	20	132072	1720	66	20	66886	2155	66	20	67236	2190	22.78	22.81
	CA_48C-66A-66A	48	20	55891	3615.1	QPSK1/80	48	20	56089	3634.9	66	20	66886	2155	66	20	67236	2190	21.34	22.23
	CA_48C-66B	48	20	55891	3615.1	QPSK1/80	48	20	56089	3634.9	66	10	67187	2185.1	66	10	67286	2195	22.05	22.23
	CA_48C-66C	48	20	55891	3615.1	QPSK1/80	48	20	56089	3634.9	66	20	67038	2170.2	66	20	67236	2190	21.66	22.23
	CA_48D-66A	48	20	56244	3650.4	QPSK1/80	48	20	56442	3670.2	48	20	56640	3690	66	20	67236	2190	21.54	22.23
	CA_4A-48D	4	20	20050	1720	QPSK1/80	48	20	56244	3650.4	48	20	56442	3670.2	48	20	56640	3690	22.72	22.85
	CA_5A-48C-66A	5	10	20450	829	QPSK1/80	48	20	55891	3615.1	48	20	56089	3634.9	66	20	67236	2190	22.75	23.09
	CA_2A-2A-5A-66A	2	20	18700	1860	QPSK1/80	2	20	19100	1900	5	10	20600	844	66	20	66886	2155	22.56	22.81

5CC LTE Downlink																								
Configure	CA Configuration	PCC					SCC1					SCC2					SCC3					SCC4		Power
		Band	BW (MHz)	UL Channel	UL Freq. (MHz)	UL Mode (Modulation, RS/Offset)	Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Band	BW (MHz)	UL Channel	UL Freq. (MHz)		
Intra-band&Inter-band	CA_13A-48D-66A	13	10	23230	782	QPSK1/80	48	20	55792	3605.2	48	20	55890	3625	48	20	56188	3644.8	66	20	67236	2190	22.58	
	CA_13A-48E	13	10	23230	782	QPSK1/80	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	48	5	55853	3611.3	22.78	
	CA_2A-13A-48D	2	20	18700	1860	QPSK1/80	13	10	23230	782	48	20	55792	3605.2	48	20	55890	3625	48	20	56188	3644.8	22.61	
	CA_2A-2A-13A-66A-66A	2	20	18700	1860	QPSK1/80	2	20	19100	1900	13	10	23230	782	66	20	66886	2155	66	20	67236	2190	22.75	
	CA_2A-2A-13A-66A-66B	2	20	18700	1860	QPSK1/80	2	20	19100	1900	5	10	20600	844	66	20	66886	2155	66	20	67236	2190	22.46	
	CA_2A-2A-13A-66B	2	20	18700	1860	QPSK1/80	2	20	19100	1900	13	10	23230	782	66	20	67236	2190	66	20	67236	2190	22.61	
	CA_2A-2A-13A-66C	2	20	18700	1860	QPSK1/80	2	20	19100	1900	5	10	20600	844	66	20	67236	2190	66	20	67236	2190	22.32	
	CA_2A-48D-66A	2	20	18700	1860	QPSK1/80	48	20	55792	3605.2	48	20	55890	3625	48	20	56188	3644.8	66	20	67236	2190	23.08	
	CA_2A-48E	2	20	18700	1860	QPSK1/80	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	48	5	55853	3611.3	22.54	
	CA_2A-48E	2	20	18700	1860	QPSK1/80	5	10	20600	844	48	20	55736	3599.6	48	20	55890	3625	48	20	56188	3644.8	22.15	
Intra-band	CA_48E-66A	48	20	55340	3560	QPSK1/80	66	20	66886	2155	66	20	67236	2190	66	20	67236	2190	66	20	67236	2190	22.28	
	CA_4A-48E	4	20	20050	1720	QPSK1/80	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	48	5	55853	3611.3	22.04	
	CA_4A-48E	5	10	20450	829	QPSK1/80	48	20	55792	3605.2	48	20	55890	3625	48	20	56188	3644.8	66	20	67236	2190	22.26	
	CA_4A-48E	5	10	20450	829	QPSK1/80	48	20	55792	3605.2	48	20	55890	3625	48	20	56188	3644.8	66	20	67236	2190	22.26	

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	22.56	23.35
	CA_n2A-n5A	n2A	20	396000	1980	QPSK/1#0	n5A	20	176300	881.5	22.06	23.35
	CA_n2A-n41A	n2A	20	396000	1980	QPSK/1#0	n41A	100	518598	2592.99	22.25	23.35
	CA_n2A-n48A	n2A	20	396000	1980	QPSK/1#0	n48A	100	641666	3624.99	22.46	23.35
	CA_n2A-n66A	n2A	20	396000	1980	QPSK/1#0	n66A	30	431000	2515	22.59	23.35
	CA_n2A-n77A	n2A	20	396000	1980	QPSK/1#0	n77A	100	650000	3750	22.26	23.35
	CA_n5(2A)	n5A	20	175800	879	QPSK/1#0	n5A	20	176800	884	22.33	23.06
	CA_n5B	n5A	20	175800	879	QPSK/1#0	n5A	20	176800	884	22.46	23.06
	CA_n5A-n48A	n5A	20	176300	881.5	QPSK/1#0	n48A	100	641666	3624.99	22.35	23.06
	CA_n5A-n66A	n5A	20	176300	881.5	QPSK/1#0	n66A	30	431000	2515	21.93	23.06
	CA_n5A-n77A	n5A	20	176300	881.5	QPSK/1#0	n77A	100	650000	3750	22.08	23.06
	CA_n48(2A)	n48A	40	641666	3624.99	QPSK/1#0	n48A	40	641666	3624.99	21.43	22.78
	CA_n48 B	n48 B	40	637668	3565.02	QPSK/1#0	n48 B	40	645332	3864.99	21.66	22.78
	CA_n48 C	n48 C	40	637334	3560.01	QPSK/1#0	n48 C	40	645332	3679.98	21.77	22.78
	CA_n48A-n66A	n48A	40	641666	3624.99	QPSK/1#0	n66A	30	431000	2515	21.29	22.78
	CA_n66(2A)	n66A	20	424000	2120	QPSK/1#0	n66A	20	434000	2170	22.35	23.09
	CA_n66B	n66B	10	423000	2115	QPSK/1#0	n66B	15	435000	2175	22.2	23.09
	CA_n77(2A)	n77A	100	623334	3350.1	QPSK/1#0	n77A	100	676666	4149.99	22.23	23.41
	CA_n77C	n77A	100	623334	3350.1	QPSK/1#0	n77A	100	676666	4149.99	22.5	22.98

2.4GHz WLAN ANT 1 (WIFI 1)

Mode	Channel	Frequency (MHz)	Average power (dBm)	Transmit Line Loss	Power Setting	Duty Cycle %
802.11a Mbps	CH1	2412	18.71	17.50	18.50	98.90
	CH7	2442	18.71	17.50	18.50	98.90
	CH13	2472	18.65	18.50	18.50	98.88
802.11g Mbps	CH1	2412	18.64	18.50	17.50	98.24
	CH7	2442	18.62	18.50	17.50	98.24
	CH13	2472	17.50	18.50	18.50	98.24
802.11n HT20 MCS0	CH1	2412	14.42	16.50	16.50	98.71
	CH7	2442	14.21	16.50	16.50	98.71
	CH13	2472	15.85	16.50	16.50	98.71
802.11n HT40 MCS0	CH1	2412	12.93	14.50	14.50	98.74
	CH7	2442	12.70	14.50	14.50	98.74
	CH13	2472	13.85	14.50	14.50	98.74
802.11n HT20 MCS9	CH1	2412	12.81	13.50	14.50	98.71
	CH7	2442	12.54	13.50	14.50	98.74
	CH13	2472	13.85	13.50	14.50	98.74
802.11n HT40 MCS9	CH1	2412	12.81	13.50	14.50	98.71
	CH7	2442	12.54	13.50	14.50	98.74
	CH13	2472	13.85	13.50	14.50	98.74
802.11n HEW20 MCS0 RU06	CH1	2412	13.43	14.50	16.50	98.81
	CH13	2472	13.48	13.50	16.50	98.87
	CH7	2442	13.53	14.50	16.50	98.87
802.11n HEW20 MCS0 RU10	CH1	2412	13.39	14.50	16.50	98.87
	CH13	2472	13.43	13.50	16.50	98.81
	CH7	2442	13.52	14.50	16.50	98.87
802.11n HEW20 MCS0 RU18	CH1	2412	13.39	13.50	15.50	98.88
	CH13	2472	13.43	13.50	15.50	98.88
	CH7	2442	13.52	13.50	15.50	98.87
802.11n HEW20 MCS0 RU24	CH1	2412	13.39	12.50	15.50	98.87
	CH13	2472	13.43	12.50	15.50	98.81
	CH7	2442	13.52	12.50	15.50	98.87
802.11n HEW20 MCS0 RU30	CH1	2412	13.39	11.50	15.50	98.87
	CH13	2472	13.43	11.50	15.50	98.81
	CH7	2442	13.52	11.50	15.50	98.87
802.11n HEW20 MCS0 RU36	CH1	2412	13.39	10.50	15.50	98.88
	CH13	2472	13.43	10.50	15.50	98.88
	CH7	2442	13.52	10.50	15.50	98.87
802.11n HEW20 MCS0 RU42	CH1	2412	13.39	9.50	15.50	98.87
	CH13	2472	13.43	9.50	15.50	98.88
	CH7	2442	13.52	9.50	15.50	98.87

5GHz WLAN ANT 1 (WIFI 1)

Mode	Channel	Frequency (MHz)	Average power (dBm)	Transmit Line Loss	Power Setting	Duty Cycle %
802.11a Mbps	CH36	5180	15.49	16.50	16.50	100.00
	CH48	5200	15.76	16.50	16.50	100.00
	CH60	5240	15.51	16.50	16.50	100.00
802.11n HT20 MCS0	CH36	5180	14.51	16.50	16.50	100.00
	CH48	5200	14.62	16.50	16.50	100.00
	CH60	5240	14.38	16.50	16.50	100.00
802.11n HT40 MCS0	CH36	5180	14.62	16.50	16.50	100.00
	CH48	5200	14.53	16.50	16.50	100.00
	CH60	5240	13.19	16.50	16.50	100.00
802.11n VHT20 MCS0	CH48	5200	12.32	13.50	13.50	100.00
	CH36	5180	12.05	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n VHT40 MCS0	CH36	5180	12.15	13.50	13.50	100.00
	CH48	5200	12.31	13.50	13.50	100.00
	CH60	5240	12.22	13.50	13.50	100.00
802.11n HEW20 MCS0	CH36	5180	12.25	13.50	13.50	100.00
	CH48	5200	12.35	13.50	13.50	100.00
	CH60	5240	12.16	13.50	13.50	100.00
802.11n HEW20 MCS0 RU10	CH36	5180	12.15	13.50	13.50	100.00
	CH48	5200	12.17	13.50	13.50	100.00
	CH60	5240	12.10	13.50	13.50	100.00
802.11n HEW20 MCS0 RU20	CH36	5180	12.15	13.50	13.50	100.00
	CH48	5200	12.17	13.50	13.50	100.00
	CH60	5240	12.10	13.50	13.50	100.00
802.11n HEW20 MCS0 RU30	CH36	5180	12.15	13.50	13.50	100.00
	CH48	5200	12.17	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU40	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU50	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU60	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU70	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU80	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU90	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU100	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU110	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU120	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU130	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU140	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU150	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU160	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU170	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU180	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU190	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00
802.11n HEW20 MCS0 RU200	CH36	5180	12.05	13.50	13.50	100.00
	CH48	5200	12.03	13.50	13.50	100.00
	CH60	5240	12.05	13.50	13.50	100.00

5GHz WLAN ANT 1 (WIFI 1)

Mode	Channel	Frequency (MHz)	Average power (dBm)	Transmit Line Loss	Power Setting	Duty Cycle (%)
802.11a Mbps	CH140	5745	18.56	18.50	18.50	100.00
	CH152	5765	18.71	18.50	18.50	100.00
	CH164	5805	18.54	18.50	18.50	100.00
802.11n HT20 MCS0	CH140	5745	14.04	14.50	14.50	100.00
	CH152	5765	13.85	14.50	14.50	100.00
	CH164	5805	12.91	14.50	14.50	100.00
802.11n HT40 MCS0	CH140	5745	14.15	14.50	14.50	100.00
	CH152	5765	13.85	14.50	14.50	100.00
	CH164	5805	12.91	14.50	14.50	100.00
802.11n VHT20 MCS0	CH140	5745	13.85	13.50	13.50	100.00
	CH152	5765	13.85	13.50	13.50	100.00
	CH164	5805	12.91	13.50	13.50	100.00
802.11n VHT40 MCS0	CH140	5745	13.85	13.50	13.50	100.00
	CH152	5765	13.85	13.50	13.50	100.00
	CH164	5805	12.91	13.50	13.50	100.00
802.11n HEW20 MCS0 RU142	CH140	5745	13.61	12.50	12.50	100.00
	CH152	5765	13.77	12.50	12.50	100.00
	CH164	5805	12.91	12.50	12.50	100.00
802.11n HEW20 MCS0 RU150	CH140	5745	13.75	13.50	13.50	100.00
	CH152	5765	13.85	13.50	13.50	100.00
	CH164	5805	12.91	13.50	13.50	100.00
802.11n HEW20 MCS0 RU158	CH140	5745	13.69	12.50	12.50	100.00
	CH152	5765	13.85	12.50	12.50	100.00
	CH164	5805	12.91	12.50	12.50	100.00
802.11n HEW20 MCS0 RU166	CH140	5745	13.69	11.50	11.50	100.00
	CH152	5765	13.85	11.50	11.50	100.00
	CH164	5805	12.91	11.50	11.50	100.00
802.11n HEW20 MCS0 RU174	CH140	5745	13.69	10.50	10.50	100.00
	CH152	5765	13.85	10.50	10.50	100.00
	CH164	5805	12.91	10.50	10.50	100.00
802.11n HEW20 MCS0 RU182	CH140	5745	13.69	9.50	9.50	100.00
	CH152	5765	13.85	9.50	9.50	100.00
	CH164	5805	12.91	9.50	9.50	100.00
802.11n HEW20 MCS0 RU190	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU198	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU206	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU214	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU222	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU230	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU238	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU246	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU254	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU262	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU270	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU278	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU286	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU294	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU302	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU310	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU318	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU326	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU334	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU342	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU350	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU358	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU366	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU374	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU382	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU390	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU398	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU406	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU414	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU422	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU430	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU438	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU446	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU454	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU462	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU470	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU478	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU486	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU494	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU502	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU510	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU518	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU526	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU534	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU542	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU550	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU558	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU566	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU574	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU582	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU590	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU598	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU606	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU614	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU622	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU630	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU638	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU646	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU654	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU662	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU670	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU678	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU686	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU694	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU702	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU710	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU718	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU726	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU734	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU742	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU750	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU758	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU766	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU774	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU782	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU790	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU798	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU806	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU814	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU822	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU830	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU838	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU846	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU854	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU862	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU870	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU878	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU886	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU894	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU902	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU910	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU918	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU926	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU934	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU942	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU950	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU958	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU966	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU974	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU982	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU990	CH140	5745	13.69	13.50	13.50	100.00
802.11n HEW20 MCS0 RU998	CH140	5745	13.69	13.50	13.50	100.00

Reduced Power Level 1

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	20.06	20.09	20.12	20.07	19.99	21		
20	QPSK	1	49	19.56	19.58	19.58	19.61	19.60			
20	QPSK	1	99	19.62	19.60	19.62	19.42	19.56			
20	QPSK	50	0	19.16	19.07	19.19	19.02	18.92			
20	QPSK	50	24	18.61	18.60	18.66	18.70	18.59	20		
20	QPSK	50	50	18.61	18.52	18.74	18.55	18.39			
20	QPSK	100	0	18.63	18.54	18.63	18.56	18.37			
20	16QAM	1	0	18.89	18.84	18.94	18.89	18.74			
20	16QAM	1	49	18.79	18.91	18.76	18.69	18.60	20		
20	16QAM	1	99	18.77	18.69	18.82	18.78	18.63			
20	16QAM	50	0	17.55	17.71	17.63	17.70	17.57			
20	16QAM	50	24	17.57	17.58	17.66	17.54	17.38			
20	16QAM	50	50	17.55	17.48	17.68	17.41	17.32	19		
20	16QAM	100	0	17.58	17.52	17.62	17.56	17.42			
20	64QAM	1	0	17.75	17.76	17.80	17.59	17.66			
20	64QAM	1	49	17.75	17.67	17.71	17.65	17.58			
20	64QAM	1	99	17.56	17.53	17.72	17.63	17.44	19		
20	64QAM	50	0	17.55	17.55	17.69	17.59	17.41			
20	64QAM	50	24	17.44	17.58	17.56	17.57	17.45			
20	64QAM	50	50	17.60	17.45	17.55	17.46	17.36			
20	64QAM	100	0	17.55	17.45	17.63	17.49	17.31	18		
20	256QAM	1	0	14.56	14.50	14.57	14.44	14.29			
20	256QAM	1	49	14.44	14.40	14.46	14.46	14.50			
20	256QAM	1	99	14.44	14.36	14.26	14.24	14.34			
20	256QAM	50	0	13.29	13.36	13.62	13.44	13.34	15		
20	256QAM	50	24	13.35	13.39	13.52	13.51	13.47			
20	256QAM	50	50	13.34	13.50	13.33	13.25	13.31			
20	256QAM	100	0	13.34	13.38	13.54	13.22	13.19			
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	19.60	19.66	19.68	19.67	19.62	21		
15	QPSK	1	37	19.54	19.57	19.57	19.61	19.60			
15	QPSK	1	74	19.56	19.62	19.62	19.62	19.52			
15	QPSK	36	0	18.66	18.77	18.72	18.76	18.66			
15	QPSK	36	20	18.68	18.65	18.70	18.78	18.72	20		
15	QPSK	36	39	18.69	18.70	18.72	18.60	18.58			
15	QPSK	75	0	18.59	18.55	18.67	18.61	18.71			
15	16QAM	1	0	18.95	18.77	18.91	18.91	18.93			
15	16QAM	1	37	18.89	18.72	18.76	18.82	18.78	20		
15	16QAM	1	74	18.77	18.67	18.80	18.93	18.66			
15	16QAM	36	0	17.53	17.70	17.70	17.80	17.61			
15	16QAM	36	20	17.50	17.65	17.61	17.78	17.55			
15	16QAM	36	39	17.47	17.49	17.57	17.65	17.57	19		
15	16QAM	75	0	17.49	17.43	17.53	17.78	17.61			
15	64QAM	1	0	17.70	17.74	17.72	17.75	17.82			
15	64QAM	1	37	17.71	17.72	17.64	17.65	17.68			
15	64QAM	1	74	17.67	17.62	17.54	17.70	17.60	19		
15	64QAM	36	0	17.47	17.53	17.56	17.69	17.66			
15	64QAM	36	20	17.53	17.58	17.41	17.62	17.52			
15	64QAM	36	39	17.47	17.43	17.63	17.70	17.55			
15	64QAM	75	0	17.44	17.49	17.44	17.52	17.40	15		
15	256QAM	1	0	14.56	14.52	14.52	14.37	14.26			
15	256QAM	1	37	14.29	14.25	14.43	14.44	14.62			
15	256QAM	1	74	14.53	14.45	14.34	14.26	14.28			
15	256QAM	36	0	13.31	13.24	13.59	13.43	13.38	15		
15	256QAM	36	20	13.44	13.28	13.54	13.48	13.50			
15	256QAM	36	39	13.35	13.52	13.34	13.29	13.24			
15	256QAM	75	0	13.35	13.35	13.46	13.15	13.27			
Channel				55290	55815	55990	56166	56690	Tune-up limit (dBm)		
Frequency (MHz)				3555	3607.5	3625	3642.5	3695			
10	QPSK	1	0	19.58	19.65	19.67	19.56	19.51	21		
10	QPSK	1	25	19.62	19.53	19.68	19.58	19.34			
10	QPSK	1	49	19.53	19.63	19.65	19.50	19.49			
10	QPSK	25	0	18.75	18.72	18.84	18.73	18.54			
10	QPSK	25	12	18.71	18.66	18.64	18.55	18.61	20		
10	QPSK	25	25	18.59	18.62	18.62	18.55	18.55			
10	QPSK	50	0	18.60	18.62	18.76	18.57	18.51			
10	16QAM	1	0	18.93	18.93	18.83	18.79	18.68			
10	16QAM	1	25	18.73	18.77	18.75	18.79	18.67	20		
10	16QAM	1	49	18.83	18.65	18.78	18.81	18.65			
10	16QAM	25	0	17.54	17.56	17.66	17.65	17.61			
10	16QAM	25	12	17.55	17.62	17.74	17.55	17.36			
10	16QAM	25	25	17.47	17.45	17.52	17.60	17.41	19		
10	16QAM	50	0	17.48	17.52	17.67	17.62	17.50			
10	64QAM	1	0	17.74	17.73	17.72	17.75	17.63			
10	64QAM	1	25	17.63	17.64	17.81	17.53	17.47			
10	64QAM	1	49	17.52	17.65	17.71	17.63	17.45	18		
10	64QAM	25	0	17.64	17.54	17.70	17.47	17.54			
10	64QAM	25	12	17.45	17.43	17.53	17.55	17.49			
10	64QAM	25	25	17.53	17.45	17.52	17.40	17.38			
10	64QAM	50	0	17.40	17.36	17.61	17.46	17.30	14		
10	256QAM	1	0	14.53	14.52	14.50	14.37	14.33			
10	256QAM	1	25	14.27	14.30	14.48	14.58	14.52			
10	256QAM	1	49	14.51	14.49	14.24	14.20	14.26			
10	256QAM	25	0	13.38	13.42	13.63	13.34	13.47	14		
10	256QAM	25	12	13.42	13.41	13.53	13.60	13.52			
10	256QAM	25	25	13.52	13.34	13.41	13.29	13.23			
10	256QAM	50	0	13.30	13.30	13.60	13.26	13.27			
Channel				55265	55810	55990	56170	56175	Tune-up limit (dBm)		
Frequency (MHz)				3552.5	3607	3625	3643	3697.5			
5	QPSK	1	0	19.63	19.62	19.65	19.59	19.51	21		
5	QPSK	1	12	19.54	19.60	19.59	19.50	19.42			
5	QPSK	1	24	19.52	19.52	19.53	19.51	19.42			
5	QPSK	12	0	18.82	18.83	18.73	18.68	18.69			
5	QPSK	12	7	18.73	18.55	18.82	18.60	18.42	20		
5	QPSK	12	13	18.54	18.70	18.72	18.58	18.39			
5	QPSK	25	0	18.62	18.59	18.59	18.59	18.39			

5	16QAM	1	0	18.85	18.92	18.84	18.73	18.76	20
5	16QAM	1	12	18.77	18.89	18.80	18.66	18.58	
5	16QAM	1	24	18.81	18.71	18.83	18.78	18.53	
5	16QAM	12	0	17.64	17.52	17.68	17.62	17.59	19
5	16QAM	12	7	17.59	17.54	17.61	17.49	17.44	
5	16QAM	12	13	17.45	17.56	17.69	17.50	17.40	
5	16QAM	25	0	17.60	17.45	17.59	17.59	17.46	19
5	64QAM	1	0	17.79	17.66	17.74	17.67	17.61	
5	64QAM	1	12	17.65	17.63	17.69	17.61	17.46	
5	64QAM	1	24	17.60	17.56	17.67	17.63	17.53	18
5	64QAM	12	0	17.56	17.62	17.62	17.48	17.39	
5	64QAM	12	7	17.41	17.42	17.44	17.49	17.56	
5	64QAM	12	13	17.63	17.62	17.49	17.59	17.46	18
5	64QAM	25	0	17.55	17.42	17.44	17.42	17.37	
5	256QAM	1	0	14.59	14.56	14.52	14.31	14.40	
5	256QAM	1	12	14.36	14.29	14.43	14.47	14.59	18
5	256QAM	1	24	14.47	14.50	14.40	14.34	14.20	
5	256QAM	12	0	13.41	13.41	13.54	13.38	13.50	
5	256QAM	12	7	13.37	13.40	13.55	13.56	13.61	15
5	256QAM	12	13	13.33	13.41	13.33	13.29	13.29	
5	256QAM	25	0	13.30	13.27	13.56	13.28	13.32	

CA_48C_Ant 2											
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	18.24	19.00
55990	55891	56089	QPSK	1	0	0	0	1	0	18.29	19.00
56640	56442	56640	QPSK	1	0	0	0	1	0	18.20	19.00
55340	55340	55538	16QAM	1	0	0	0	1	0	18.18	19.00
55990	55891	56089	16QAM	1	0	0	0	1	0	18.24	19.00
56640	56442	56640	16QAM	1	0	0	0	1	0	18.16	19.00
55340	55340	55538	64QAM	1	0	0	0	1	0	18.12	19.00
55990	55891	56089	64QAM	1	0	0	0	1	0	18.13	19.00
56640	56442	56640	64QAM	1	0	0	0	1	0	18.10	19.00
55340	55340	55538	256QAM	1	0	0	0	1	0	17.77	18.50
55990	55891	56089	256QAM	1	0	0	0	1	0	17.75	18.50
56640	56442	56640	256QAM	1	0	0	0	1	0	17.82	18.50
55340	55340	55538	QPSK	50	0	0	0	1	0	16.77	17.50
55990	55891	56089	QPSK	50	0	0	0	1	0	16.84	17.50
56640	56442	56640	QPSK	50	0	0	0	1	0	16.79	17.50

Reduced Power level 2

Band		WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	21.31	21.37	21.34	22.00
3GPP Rel 5	HSDPA Subtest-1	20.06	20.10	20.01	21.00
3GPP Rel 5	HSDPA Subtest-2	20.08	19.95	19.99	21.00
3GPP Rel 5	HSDPA Subtest-3	19.45	19.48	19.51	20.50
3GPP Rel 5	HSDPA Subtest-4	19.59	19.49	19.34	20.50
3GPP Rel 6	HSUPA Subtest-1	20.01	20.08	19.91	21.00
3GPP Rel 6	HSUPA Subtest-2	19.48	19.55	19.58	20.50
3GPP Rel 6	HSUPA Subtest-3	19.94	20.05	19.96	21.00
3GPP Rel 6	HSUPA Subtest-4	20.06	20.01	19.89	21.00
3GPP Rel 6	HSUPA Subtest-5	20.02	20.10	20.02	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.34	20.02	19.84	21.00
Attenuator			Cable Loss	0.6	
Mode			Max.	21.37	

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	21.58	21.62	21.55	
20	QPSK	1	49	21.52	21.57	21.50	23
20	QPSK	1	99	21.53	21.51	21.46	
20	QPSK	50	0	20.67	20.71	20.65	
20	QPSK	50	24	20.56	20.63	20.58	22
20	QPSK	50	50	20.51	20.60	20.49	
20	QPSK	100	0	20.55	20.57	20.52	
20	16QAM	1	0	20.77	20.83	20.78	22
20	16QAM	1	49	20.73	20.76	20.70	
20	16QAM	1	99	20.66	20.74	20.67	
20	16QAM	50	0	19.63	19.72	19.68	21
20	16QAM	50	24	19.56	19.66	19.60	
20	16QAM	50	50	19.49	19.63	19.56	
20	16QAM	100	0	19.54	19.58	19.61	21
20	64QAM	1	0	19.65	19.70	19.64	
20	64QAM	1	49	19.58	19.65	19.56	
20	64QAM	1	99	19.52	19.54	19.51	20
20	64QAM	50	0	18.58	18.66	18.60	
20	64QAM	50	24	18.49	18.51	18.63	
20	64QAM	50	50	18.54	18.59	18.55	18
20	64QAM	100	0	18.46	18.54	18.49	
20	256QAM	1	0	16.71	16.76	16.50	
20	256QAM	1	49	16.49	16.69	16.67	17
20	256QAM	1	99	16.67	16.54	16.52	
20	256QAM	50	0	15.53	15.66	15.55	
20	256QAM	50	24	15.49	15.64	15.69	17
20	256QAM	50	50	15.62	15.60	15.47	
20	256QAM	100	0	15.53	15.63	15.44	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	23
15	QPSK	1	0	21.58	21.60	21.54	
15	QPSK	1	37	21.42	21.57	21.49	
15	QPSK	1	74	21.56	21.54	21.48	22
15	QPSK	36	0	20.58	20.64	20.72	
15	QPSK	36	20	20.53	20.56	20.51	
15	QPSK	36	39	20.49	20.57	20.53	22
15	QPSK	75	0	20.50	20.48	20.52	
15	16QAM	1	0	20.78	20.85	20.84	
15	16QAM	1	37	20.80	20.76	20.68	21
15	16QAM	1	74	20.62	20.61	20.65	
15	16QAM	36	0	19.51	19.77	19.74	
15	16QAM	36	20	19.44	19.61	19.69	21
15	16QAM	36	39	19.55	19.61	19.63	
15	16QAM	75	0	19.59	19.47	19.52	
15	64QAM	1	0	19.61	19.72	19.68	21
15	64QAM	1	37	19.44	19.67	19.52	
15	64QAM	1	74	19.52	19.45	19.44	
15	64QAM	36	0	18.43	18.64	18.66	20
15	64QAM	36	20	18.49	18.60	18.60	
15	64QAM	36	39	18.40	18.64	18.55	
15	64QAM	75	0	18.45	18.60	18.39	18
15	256QAM	1	0	16.71	16.75	16.53	
15	256QAM	1	37	16.46	16.67	16.75	
15	256QAM	1	74	16.49	16.50	16.38	17
15	256QAM	36	0	15.40	15.73	15.60	
15	256QAM	36	20	15.46	15.51	15.68	
15	256QAM	36	39	15.48	15.44	15.49	17
15	256QAM	75	0	15.42	15.58	15.43	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	22
10	QPSK	1	0	21.55	21.58	21.50	
10	QPSK	1	25	21.48	21.56	21.53	
10	QPSK	1	49	21.43	21.51	21.46	21
10	QPSK	25	0	20.65	20.63	20.68	
10	QPSK	25	12	20.47	20.60	20.63	
10	QPSK	25	25	20.60	20.50	20.45	21
10	QPSK	50	0	20.46	20.66	20.56	
10	16QAM	1	0	20.78	20.90	20.75	
10	16QAM	1	25	20.67	20.84	20.80	21
10	16QAM	1	49	20.52	20.75	20.75	
10	16QAM	25	0	19.56	19.66	19.64	
10	16QAM	25	12	19.51	19.68	19.67	20
10	16QAM	25	25	19.46	19.69	19.44	
10	16QAM	50	0	19.45	19.57	19.68	
10	64QAM	1	0	19.75	19.58	19.65	20
10	64QAM	1	25	19.55	19.65	19.52	
10	64QAM	1	49	19.48	19.55	19.57	
10	64QAM	25	0	18.49	18.64	18.48	20
10	64QAM	25	12	18.51	18.56	18.52	
10	64QAM	25	25	18.61	18.48	18.56	
10	64QAM	50	0	18.55	18.60	18.49	18
10	256QAM	1	0	16.57	16.74	16.44	
10	256QAM	1	25	16.50	16.71	16.71	
10	256QAM	1	49	16.60	16.45	16.47	17
10	256QAM	25	0	15.56	15.63	15.59	
10	256QAM	25	12	15.39	15.64	15.67	
10	256QAM	25	25	15.57	15.45	15.36	22
10	256QAM	50	0	15.42	15.64	15.50	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	23
5	QPSK	1	0	21.58	21.59	21.54	
5	QPSK	1	12	21.57	21.55	21.44	
5	QPSK	1	24	21.51	21.55	21.47	22
5	QPSK	12	0	20.62	20.75	20.73	
5	QPSK	12	7	20.58	20.67	20.57	
5	QPSK	12	13	20.43	20.48	20.44	22
5	QPSK	25	0	20.64	20.57	20.58	
5	16QAM	1	0	20.81	20.73	20.82	
5	16QAM	1	12	20.63	20.81	20.68	22

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	21.67	21.74	21.61	
20	QPSK	1	49	21.49	21.65	21.47	23
20	QPSK	1	99	21.68	21.59	21.56	
20	QPSK	50	0	20.77	20.79	20.75	
20	QPSK	50	24	20.54	20.71	20.60	22
20	QPSK	50	50	20.63	20.78	20.62	
20	QPSK	100	0	20.54	20.70	20.68	
20	16QAM	1	0	20.95	20.95	20.72	22
20	16QAM	1	49	20.71	20.75	20.79	
20	16QAM	1	99	20.71	20.71	20.62	
20	16QAM	50	0	19.77	19.72	19.76	21
20	16QAM	50	24	19.64	19.76	19.54	
20	16QAM	50	50	19.49	19.58	19.67	
20	16QAM	100	0	19.68	19.66	19.62	21
20	64QAM	1	0	19.78	19.78	19.79	
20	64QAM	1	49	19.71	19.72	19.72	
20	64QAM	1	99	19.46	19.64	19.54	20
20	64QAM	50	0	18.69	18.65	18.66	
20	64QAM	50	24	18.43	18.56	18.74	
20	64QAM	50	50	18.68	18.58	18.60	18
20	64QAM	100	0	18.45	18.56	18.63	
20	256QAM	1	0	16.68	16.74	16.59	
20	256QAM	1	49	16.64	16.81	16.84	17
20	256QAM	1	99	16.67	16.63	16.55	
20	256QAM	50	0	15.51	15.73	15.74	
20	256QAM	50	24	15.47	15.74	15.66	17
20	256QAM	50	50	15.73	15.59	15.61	
20	256QAM	100	0	15.49	15.71	15.40	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	23
15	QPSK	1	0	21.64	21.71	21.65	
15	QPSK	1	37	21.47	21.61	21.63	
15	QPSK	1	74	21.65	21.56	21.51	22
15	QPSK	36	0	20.62	20.67	20.77	
15	QPSK	36	20	20.67	20.82	20.72	
15	QPSK	36	39	20.61	20.64	20.54	22
15	QPSK	75	0	20.73	20.61	20.63	
15	16QAM	1	0	20.89	20.99	20.72	
15	16QAM	1	37	20.82	20.78	20.80	21
15	16QAM	1	74	20.65	20.78	20.64	
15	16QAM	36	0	19.59	19.90	19.68	
15	16QAM	36	20	19.71	19.67	19.72	21
15	16QAM	36	39	19.66	19.76	19.52	
15	16QAM	75	0	19.61	19.72	19.55	
15	64QAM	1	0	19.68	19.88	19.83	21
15	64QAM	1	37	19.59	19.59	19.65	
15	64QAM	1	74	19.66	19.63	19.51	
15	64QAM	36	0	18.74	18.84	18.62	20
15	64QAM	36	20	18.59	18.67	18.65	
15	64QAM	36	39	18.60	18.67	18.62	
15	64QAM	75	0	18.51	18.61	18.47	18
15	256QAM	1	0	16.73	16.75	16.52	
15	256QAM	1	37	16.54	16.70	16.68	
15	256QAM	1	74	16.60	16.64	16.46	17
15	256QAM	36	0	15.56	15.74	15.57	
15	256QAM	36	20	15.61	15.77	15.54	
15	256QAM	36	39	15.58	15.65	15.45	17
15	256QAM	75	0	15.57	15.76	15.51	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	23
10	QPSK	1	0	21.64	21.69	21.66	
10	QPSK	1	25	21.47	21.61	21.56	
10	QPSK	1	49	21.61	21.52	21.41	22
10	QPSK	25	0	20.62	20.82	20.66	
10	QPSK	25	12	20.54	20.74	20.61	
10	QPSK	25	25	20.62	20.78	20.66	22
10	QPSK	50	0	20.51	20.76	20.62	
10	16QAM	1	0	20.72	20.83	20.85	
10	16QAM	1	25	20.87	20.72	20.65	22
10	16QAM	1	49	20.80	20.71	20.77	
10	16QAM	25	0	19.58	19.81	19.65	
10	16QAM	25	12	19.67	19.66	19.67	21
10	16QAM	25	25	19.67	19.76	19.75	
10	16QAM	50	0	19.53	19.72	19.80	
10	64QAM	1	0	19.63	19.85	19.72	21
10	64QAM	1	25	19.52	19.78	19.60	
10	64QAM	1	49	19.62	19.63	19.65	
10	64QAM	25	0	18.69	18.72	18.74	20
10	64QAM	25	12	18.47	18.62	18.79	
10	64QAM	25	25	18.54	18.68	18.51	
10	64QAM	50	0	18.50	18.63	18.57	18
10	256QAM	1	0	16.74	16.84	16.64	
10	256QAM	1	25	16.58	16.70	16.69	
10	256QAM	1	49	16.68	16.58	16.66	17
10	256QAM	25	0	15.58	15.77	15.65	
10	256QAM	25	12	15.60	15.62	15.73	
10	256QAM	25	25	15.62	15.50	15.52	17
10	256QAM	50	0	15.64	15.66	15.50	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	23
5	QPSK	1	0	21.61	21.70	21.67	
5	QPSK	1	12	21.61	21.57	21.56	
5	QPSK	1	24	21.53	21.57	21.61	22
5	QPSK	12	0	20.64	20.81	20.64	
5	QPSK	12	7	20.66	20.80	20.60	
5	QPSK	12	13	20.70	20.54	20.51	22
5	QPSK	25	0	20.71	20.56	20.62	
5	16QAM	1	0	20.73	20.97	20.73	
5	16QAM	1	12	20.89	20.89	20.69	22

5	16QAM	1	24	20.60	20.74	20.62	21
5	16QAM	12	0	19.51	19.74	19.78	
5	16QAM	12	7	19.63	19.55	19.69	
5	16QAM	12	13	19.49	19.53	19.47	
5	16QAM	25	0	19.42	19.64	19.54	21
5	64QAM	1	0	19.59	19.70	19.51	
5	64QAM	1	12	19.61	19.60	19.66	
5	64QAM	1	24	19.50	19.63	19.37	
5	64QAM	12	0	18.44	18.59	18.56	20
5	64QAM	12	7	18.56	18.47	18.55	
5	64QAM	12	13	18.62	18.54	18.43	
5	64QAM	25	0	18.41	18.42	18.40	
5	256QAM	1	0	16.62	16.79	16.53	18
5	256QAM	1	12	16.52	16.67	16.66	
5	256QAM	1	24	16.52	16.47	16.43	
5	256QAM	12	0	15.51	15.66	15.62	
5	256QAM	12	7	15.56	15.70	15.62	17
5	256QAM	12	13	15.61	15.49	15.39	
5	256QAM	25	0	15.52	15.67	15.40	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.52	21.55	21.51	23
3	QPSK	1	8	21.39	21.43	21.48	
3	QPSK	1	14	21.46	21.51	21.47	
3	QPSK	8	0	20.65	20.56	20.51	
3	QPSK	8	4	20.53	20.57	20.49	22
3	QPSK	8	7	20.51	20.66	20.42	
3	QPSK	15	0	20.58	20.44	20.42	
3	16QAM	1	0	20.62	20.81	20.75	
3	16QAM	1	8	20.61	20.78	20.73	22
3	16QAM	1	14	20.74	20.60	20.55	
3	16QAM	8	0	19.54	19.66	19.61	
3	16QAM	8	4	19.63	19.75	19.58	
3	16QAM	8	7	19.51	19.72	19.44	21
3	16QAM	15	0	19.40	19.46	19.54	
3	64QAM	1	0	19.56	19.65	19.63	
3	64QAM	1	8	19.49	19.74	19.64	
3	64QAM	1	14	19.57	19.61	19.41	20
3	64QAM	8	0	18.67	18.73	18.66	
3	64QAM	8	4	18.53	18.55	18.55	
3	64QAM	8	7	18.42	18.58	18.56	
3	64QAM	15	0	18.56	18.62	18.50	18
3	256QAM	1	0	16.75	16.74	16.44	
3	256QAM	1	8	16.55	16.56	16.77	
3	256QAM	1	14	16.57	16.48	16.58	
3	256QAM	8	0	15.61	15.77	15.50	17
3	256QAM	8	4	15.50	15.61	15.58	
3	256QAM	8	7	15.64	15.43	15.42	
3	256QAM	15	0	15.53	15.62	15.42	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.52	21.59	21.51	23
1.4	QPSK	1	3	21.38	21.45	21.50	
1.4	QPSK	1	5	21.56	21.50	21.50	
1.4	QPSK	3	0	20.71	20.75	20.50	
1.4	QPSK	3	1	20.65	20.70	20.50	22
1.4	QPSK	3	3	20.54	20.62	20.50	
1.4	QPSK	6	0	20.50	20.45	20.40	
1.4	16QAM	1	0	20.85	20.68	20.82	
1.4	16QAM	1	3	20.64	20.71	20.55	21
1.4	16QAM	1	5	20.70	20.61	20.59	
1.4	16QAM	3	0	19.54	19.74	19.63	
1.4	16QAM	3	1	19.60	19.53	19.60	
1.4	16QAM	3	3	19.54	19.49	19.47	20
1.4	16QAM	6	0	19.55	19.54	19.46	
1.4	64QAM	1	0	19.51	19.74	19.59	
1.4	64QAM	1	3	19.66	19.59	19.44	
1.4	64QAM	1	5	19.53	19.61	19.41	18
1.4	64QAM	3	0	18.55	18.54	18.54	
1.4	64QAM	3	1	18.52	18.61	18.70	
1.4	64QAM	3	3	18.51	18.60	18.63	
1.4	256QAM	1	0	16.60	16.71	16.45	17
1.4	256QAM	1	3	16.48	16.61	16.70	
1.4	256QAM	1	5	16.53	16.45	16.40	
1.4	256QAM	3	0	15.56	15.66	15.51	
1.4	256QAM	3	1	15.56	15.66	15.77	17
1.4	256QAM	3	3	15.52	15.53	15.39	
1.4	256QAM	6	0	15.54	15.57	15.43	

5	16QAM	1	24	20.61	20.84	20.84	21
5	16QAM	12	0	19.61	19.89	19.73	
5	16QAM	12	7	19.75	19.85	19.73	
5	16QAM	12	13	19.68	19.66	19.54	
5	16QAM	25	0	19.48	19.59	19.78	21
5	64QAM	1	0	19.76	19.69	19.71	
5	64QAM	1	12	19.71	19.64	19.61	
5	64QAM	1	24	19.68	19.67	19.60	
5	64QAM	12	0	18.58	18.72	18.67	20
5	64QAM	12	7	18.51	18.60	18.68	
5	64QAM	12	13	18.64	18.66	18.53	
5	64QAM	25	0	18.64	18.58	18.45	
5	256QAM	1	0	16.71	16.92	16.55	18
5	256QAM	1	12	16.61	16.63	16.65	
5	256QAM	1	24	16.65	16.58	16.69	
5	256QAM	12	0	15.51	15.78	15.69	
5	256QAM	12	7	15.56	15.66	15.76	17
5	256QAM	12	13	15.70	15.52	15.51	
5	256QAM	25	0	15.59	15.79	15.66	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	21.65	21.66	21.59	23
3	QPSK	1	8	21.64	21.62	21.61	
3	QPSK	1	14	21.57	21.48	21.42	
3	QPSK	8	0	20.81	20.74	20.73	
3	QPSK	8	4	20.51	20.59	20.72	22
3	QPSK	8	7	20.64	20.55	20.45	
3	QPSK	15	0	20.69	20.72	20.56	
3	16QAM	1	0	20.81	20.93	20.94	
3	16QAM	1	8	20.86	20.76	20.89	22
3	16QAM	1	14	20.83	20.79	20.86	
3	16QAM	8	0	19.78	19.80	19.77	
3	16QAM	8	4	19.61	19.67	19.79	
3	16QAM	8	7	19.64	19.68	19.52	21
3	16QAM	15	0	19.68	19.56	19.66	
3	64QAM	1	0	19.65	19.78	19.62	
3	64QAM	1	8	19.62	19.82	19.72	
3	64QAM	1	14	19.60	19.57	19.46	20
3	64QAM	8	0	18.60	18.70	18.74	
3	64QAM	8	4	18.53	18.65	18.72	
3	64QAM	8	7	18.63	18.58	18.57	
3	64QAM	15	0	18.42	18.67	18.52	18
3	256QAM	1	0	16.72	16.80	16.54	
3	256QAM	1	8	16.66	16.67	16.81	
3	256QAM	1	14	16.68	16.50	16.46	
3	256QAM	8	0	15.57	15.72	15.73	17
3	256QAM	8	4	15.63	15.63	15.71	
3	256QAM	8	7	15.56	15.53	15.50	
3	256QAM	15	0	15.57	15.78	15.54	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.64	21.67	21.62	23
1.4	QPSK	1	3	21.63	21.60	21.53	
1.4	QPSK	1	5	21.54	21.64	21.56	
1.4	QPSK	3	0	20.86	20.79	20.77	
1.4	QPSK	3	1	20.56	20.72	20.71	22
1.4	QPSK	3	3	20.61	20.61	20.65	
1.4	QPSK	6	0	20.71	20.71	20.52	
1.4	16QAM	1	0	20.84	20.79	20.72	
1.4	16QAM	1	3	20.76	20.81	20.75	21
1.4	16QAM	1	5	20.85	20.85	20.70	
1.4	16QAM	3	0	19.70	19.84	19.69	
1.4	16QAM	3	1	19.63	19.60	19.76	
1.4	16QAM	3	3	19.66	19.69	19.71	20
1.4	16QAM	6	0	19.60	19.69	19.80	
1.4	64QAM	1	0	19.72	19.75	19.74	
1.4	64QAM	1	3	19.73	19.82	19.67	
1.4	64QAM	1	5	19.61	19.66	19.61	18
1.4	64QAM	3	0	18.74	18.64	18.57	
1.4	64QAM	3	1	18.59	18.61	18.60	
1.4	64QAM	3	3	18.61	18.63	18.59	
1.4	256QAM	1	0	16.81	16.83	16.44	17
1.4	256QAM	1	3	16.82	16.78	16.56	
1.4	256QAM	1	5	16.63	16.58	16.54	
1.4	256QAM	3	0	15.62	15.73	15.62	
1.4	256QAM	3	1	15.50	15.59	15.79	17
1.4	256QAM	3	3	15.71	15.53	15.55	
1.4	256QAM	6	0	15.62	15.71	15.52	

Band 4 (dBm) Ant1							
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	21.67	21.74	21.61	23
20	QPSK	1	49	21.49	21.65	21.47	
20	QPSK	1	99	21.68	21.59	21.56	
20	QPSK	50	0	20.77	20.79	20.75	22
20	QPSK	50	24	20.54	20.71	20.60	
20	QPSK	50	50	20.63	20.78	20.62	
20	QPSK	100	0	20.54	20.70	20.68	22
20	16QAM	1	0	20.95	20.95	20.72	
20	16QAM	1	49	20.71	20.75	20.79	
20	16QAM	1	99	20.71	20.71	20.62	21
20	16QAM	50	0	19.77	19.72	19.76	
20	16QAM	50	24	19.64	19.76	19.54	
20	16QAM	50	50	19.49	19.58	19.67	21
20	16QAM	100	0	19.68	19.66	19.62	
20	64QAM	1	0	19.78	19.78	19.79	
20	64QAM	1	49	19.71	19.72	19.72	21
20	64QAM	1	99	19.46	19.64	19.54	
20	64QAM	50	0	18.69	18.65	18.66	
20	64QAM	50	24	18.43	18.56	18.74	20
20	64QAM	50	50	18.68	18.58	18.60	
20	64QAM	100	0	18.45	18.56	18.63	
20	256QAM	1	0	16.68	16.74	16.59	19
20	256QAM	1	49	16.64	16.81	16.84	
20	256QAM	1	99	16.67	16.63	16.55	
20	256QAM	50	0	15.51	15.73	15.74	17
20	256QAM	50	24	15.47	15.74	15.66	
20	256QAM	50	50	15.73	15.59	15.61	
20	256QAM	100	0	15.49	15.71	15.40	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	21.64	21.71	21.65	23
15	QPSK	1	37	21.47	21.61	21.63	
15	QPSK	1	74	21.65	21.56	21.51	
15	QPSK	36	0	20.62	20.67	20.77	22
15	QPSK	36	20	20.67	20.82	20.72	
15	QPSK	36	39	20.61	20.64	20.54	
15	QPSK	75	0	20.73	20.61	20.63	22
15	16QAM	1	0	20.89	20.99	20.72	
15	16QAM	1	37	20.82	20.78	20.80	
15	16QAM	1	74	20.65	20.78	20.64	21
15	16QAM	36	0	19.59	19.90	19.68	
15	16QAM	36	20	19.71	19.67	19.72	
15	16QAM	36	39	19.66	19.76	19.52	21
15	16QAM	75	0	19.61	19.72	19.55	
15	64QAM	1	0	19.68	19.88	19.83	
15	64QAM	1	37	19.59	19.59	19.65	20
15	64QAM	1	74	19.66	19.63	19.51	
15	64QAM	36	0	18.74	18.84	18.62	
15	64QAM	36	20	18.59	18.67	18.65	19
15	64QAM	36	39	18.60	18.67	18.62	
15	64QAM	75	0	18.51	18.61	18.47	
15	256QAM	1	0	16.73	16.75	16.52	17
15	256QAM	1	37	16.54	16.70	16.68	
15	256QAM	1	74	16.60	16.64	16.46	
15	256QAM	36	0	15.56	15.74	15.57	17
15	256QAM	36	20	15.61	15.77	15.54	
15	256QAM	36	39	15.58	15.65	15.45	
15	256QAM	75	0	15.57	15.76	15.51	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	21.64	21.69	21.66	23
10	QPSK	1	25	21.47	21.61	21.56	
10	QPSK	1	49	21.61	21.52	21.41	
10	QPSK	25	0	20.62	20.82	20.66	22
10	QPSK	25	12	20.54	20.74	20.61	
10	QPSK	25	25	20.62	20.78	20.66	
10	QPSK	50	0	20.51	20.76	20.62	22
10	16QAM	1	0	20.72	20.83	20.85	
10	16QAM	1	25	20.87	20.72	20.65	
10	16QAM	1	49	20.80	20.71	20.77	21
10	16QAM	25	0	19.58	19.81	19.65	
10	16QAM	25	12	19.67	19.66	19.67	
10	16QAM	25	25	19.67	19.76	19.75	21
10	16QAM	50	0	19.53	19.72	19.80	
10	64QAM	1	0	19.63	19.85	19.72	
10	64QAM	1	25	19.52	19.78	19.60	20
10	64QAM	1	49	19.62	19.63	19.65	
10	64QAM	25	0	18.69	18.72	18.74	
10	64QAM	25	12	18.47	18.62	18.79	19
10	64QAM	25	25	18.54	18.68	18.51	
10	64QAM	50	0	18.50	18.63	18.57	
10	256QAM	1	0	16.74	16.84	16.64	17
10	256QAM	1	25	16.58	16.70	16.69	
10	256QAM	1	49	16.68	16.58	16.66	
10	256QAM	25	0	15.58	15.77	15.65	17
10	256QAM	25	12	15.60	15.62	15.73	
10	256QAM	25	25	15.62	15.50	15.52	
10	256QAM	50	0	15.64	15.66	15.50	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	21.61	21.70	21.67	23
5	QPSK	1	12	21.61	21.57	21.56	
5	QPSK	1	24	21.53	21.57	21.61	
5	QPSK	12	0	20.64	20.81	20.64	22
5	QPSK	12	7	20.66	20.80	20.60	
5	QPSK	12	13	20.70	20.54	20.51	
5	QPSK	25	0	20.71	20.56	20.62	22
5	16QAM	1	0	20.73	20.97	20.73	
5	16QAM	1	12	20.89	20.89	20.69	

5	16QAM	1	24	20.61	20.84	20.84	21
5	16QAM	12	0	19.61	19.89	19.73	
5	16QAM	12	7	19.75	19.85	19.73	
5	16QAM	12	13	19.68	19.66	19.54	
5	16QAM	25	0	19.48	19.59	19.78	21
5	64QAM	1	0	19.76	19.69	19.71	
5	64QAM	1	12	19.71	19.64	19.61	
5	64QAM	1	24	19.68	19.67	19.60	
5	64QAM	12	0	18.58	18.72	18.67	20
5	64QAM	12	7	18.51	18.60	18.68	
5	64QAM	12	13	18.64	18.66	18.53	
5	64QAM	25	0	18.64	18.58	18.45	
5	256QAM	1	0	16.71	16.92	16.55	19
5	256QAM	1	12	16.61	16.63	16.65	
5	256QAM	1	24	16.65	16.58	16.69	
5	256QAM	12	0	15.51	15.78	15.69	
5	256QAM	12	7	15.56	15.66	15.76	17
5	256QAM	12	13	15.70	15.52	15.51	
5	256QAM	25	0	15.59	15.79	15.66	
Channel				19969	20178	20389	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	21.65	21.66	21.59	23
3	QPSK	1	8	21.64	21.62	21.61	
3	QPSK	1	14	21.57	21.48	21.42	
3	QPSK	8	0	20.81	20.74	20.73	
3	QPSK	8	4	20.51	20.59	20.72	22
3	QPSK	8	7	20.64	20.55	20.45	
3	QPSK	15	0	20.69	20.72	20.56	
3	16QAM	1	0	20.81	20.93	20.94	
3	16QAM	1	8	20.86	20.76	20.89	22
3	16QAM	1	14	20.83	20.79	20.86	
3	16QAM	8	0	19.78	19.80	19.77	
3	16QAM	8	4	19.61	19.67	19.79	
3	16QAM	8	7	19.64	19.68	19.52	21
3	16QAM	15	0	19.68	19.56	19.66	
3	64QAM	1	0	19.65	19.78	19.62	
3	64QAM	1	8	19.62	19.82	19.72	
3	64QAM	1	14	19.60	19.57	19.46	20
3	64QAM	8	0	18.60	18.70	18.74	
3	64QAM	8	4	18.53	18.65	18.72	
3	64QAM	8	7	18.63	18.58	18.57	
3	64QAM	15	0	18.42	18.67	18.52	19
3	256QAM	1	0	16.72	16.80	16.54	
3	256QAM	1	8	16.66	16.67	16.81	
3	256QAM	1	14	16.68	16.50	16.46	
3	256QAM	8	0	15.57	15.72	15.73	18
3	256QAM	8	4	15.63	15.63	15.71	
3	256QAM	8	7	15.56	15.53	15.50	
3	256QAM	15	0	15.57	15.78	15.54	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.64	21.67	21.62	23
1.4	QPSK	1	3	21.63	21.60	21.53	
1.4	QPSK	1	5	21.54	21.64	21.56	
1.4	QPSK	3	0	20.86	20.79	20.77	
1.4	QPSK	3	1	20.56	20.72	20.71	
1.4	QPSK	3	3	20.61	20.61	20.65	
1.4	QPSK	6	0	20.71	20.71	20.52	22
1.4	16QAM	1	0	20.84	20.79	20.72	
1.4	16QAM	1	3	20.76	20.81	20.75	
1.4	16QAM	1	5	20.85	20.85	20.70	
1.4	16QAM	3	0	19.70	19.84	19.69	
1.4	16QAM	3	1	19.63	19.60	19.76	
1.4	16QAM	3	3	19.66	19.69	19.71	21
1.4	16QAM	6	0	19.60	19.69	19.80	
1.4	64QAM	1	0	19.72	19.75	19.74	
1.4	64QAM	1	3	19.73	19.62	19.67	
1.4	64QAM	1	5	19.61	19.66	19.61	
1.4	64QAM	3	0	18.74	18.64	18.57	
1.4	64QAM	3	1	18.59	18.61	18.60	20
1.4	64QAM	3	3	18.61	18.63	18.59	
1.4	64QAM	6	0	18.61	18.63	18.44	
1.4	256QAM	1	0	16.82	16.78	16.56	
1.4	256QAM	1	3	16.50	16.67	16.76	
1.4	256QAM	1	5	16.63	16.58	16.54	
1.4	256QAM	3	0	15.62	15.73	15.62	19
1.4	256QAM	3	1	15.50	15.59	15.79	
1.4	256QAM	3	3	15.71	15.53	15.55	
1.4	256QAM	6	0	15.62	15.71	15.52	
1.4	256QAM	6	0	15.62	15.71	15.52	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	19.88	19.96	19.87	21
10	QPSK	1	25	19.89	19.86	19.79	
10	QPSK	1	49	19.85	19.90	19.77	
10	QPSK	25	0	18.88	18.97	18.84	20
10	QPSK	25	12	18.76	18.93	18.79	
10	QPSK	25	25	18.93	18.93	18.89	
10	QPSK	50	0	18.87	18.86	18.91	20
10	16QAM	1	0	19.06	19.09	18.97	
10	16QAM	1	25	18.95	19.05	19.12	
10	16QAM	1	49	18.89	18.91	19.08	19
10	16QAM	25	0	17.90	17.92	17.94	
10	16QAM	25	12	17.94	18.04	17.88	
10	16QAM	25	25	17.76	17.85	17.86	19
10	16QAM	50	0	17.93	17.87	17.81	
10	64QAM	1	0	18.03	17.99	17.94	
10	64QAM	1	25	17.94	17.82	17.77	19
10	64QAM	1	49	17.92	17.87	17.81	
10	64QAM	25	0	16.82	16.87	16.94	
10	64QAM	25	12	16.79	16.90	16.98	18
10	64QAM	25	25	16.87	16.93	16.77	
10	64QAM	50	0	16.72	16.93	16.91	
10	256QAM	1	0	14.77	14.68	14.56	16
10	256QAM	1	25	14.52	14.66	14.78	
10	256QAM	1	49	14.67	14.50	14.53	
10	256QAM	25	0	13.54	13.77	13.62	15
10	256QAM	25	12	13.46	13.55	13.70	
10	256QAM	25	25	13.65	13.53	13.46	
10	256QAM	50	0	13.56	13.65	13.41	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	Tune-up limit (dBm)
5	QPSK	1	0	19.87	19.91	19.85	21
5	QPSK	1	12	19.71	19.92	19.91	
5	QPSK	1	24	19.81	19.92	19.65	
5	QPSK	12	0	18.95	19.07	18.87	20
5	QPSK	12	7	18.81	19.03	18.99	
5	QPSK	12	13	18.79	18.78	18.88	
5	QPSK	25	0	18.73	18.96	18.79	20
5	16QAM	1	0	18.96	19.18	18.98	
5	16QAM	1	12	18.93	19.06	19.04	
5	16QAM	1	24	18.97	18.96	18.95	19
5	16QAM	12	0	17.91	17.90	17.87	
5	16QAM	12	7	17.82	18.07	17.96	
5	16QAM	12	13	17.79	18.00	17.88	19
5	16QAM	25	0	17.73	17.92	17.86	
5	64QAM	1	0	17.96	18.04	17.81	
5	64QAM	1	12	17.95	17.98	17.95	19
5	64QAM	1	24	17.82	17.71	17.91	
5	64QAM	12	0	16.86	17.00	16.90	
5	64QAM	12	7	16.90	16.78	16.83	18
5	64QAM	12	13	16.92	16.93	16.86	
5	64QAM	25	0	16.83	16.73	16.68	
5	256QAM	1	0	14.76	14.76	14.61	16
5	256QAM	1	12	14.61	14.69	14.66	
5	256QAM	1	24	14.54	14.57	14.49	
5	256QAM	12	0	13.53	13.70	13.64	15
5	256QAM	12	7	13.57	13.72	13.67	
5	256QAM	12	13	13.64	13.56	13.45	
5	256QAM	25	0	13.49	13.72	13.51	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	19.80	19.88	19.75	21
3	QPSK	1	8	19.78	19.80	19.73	
3	QPSK	1	14	19.76	19.84	19.87	
3	QPSK	8	0	19.00	18.96	19.01	20
3	QPSK	8	4	18.82	19.02	18.79	
3	QPSK	8	7	18.90	19.01	18.75	
3	QPSK	15	0	18.89	18.75	18.77	20
3	16QAM	1	0	18.97	19.09	19.02	
3	16QAM	1	8	18.93	19.18	18.87	
3	16QAM	1	14	19.07	19.13	19.06	19
3	16QAM	8	0	17.92	17.95	17.86	
3	16QAM	8	4	17.89	18.05	18.01	
3	16QAM	8	7	17.70	17.92	17.91	19
3	16QAM	15	0	17.74	17.87	17.95	
3	64QAM	1	0	18.04	18.03	17.82	
3	64QAM	1	8	17.92	18.05	17.84	19
3	64QAM	1	14	17.83	17.90	17.75	
3	64QAM	8	0	16.91	16.98	16.78	
3	64QAM	8	4	16.77	16.85	16.92	18
3	64QAM	8	7	16.74	16.86	16.87	
3	64QAM	15	0	16.68	16.87	16.87	
3	256QAM	1	0	14.73	14.76	14.49	16
3	256QAM	1	8	14.48	14.71	14.80	
3	256QAM	1	14	14.56	14.48	14.44	
3	256QAM	8	0	13.43	13.66	13.63	15
3	256QAM	8	4	13.46	13.54	13.65	
3	256QAM	8	7	13.67	13.54	13.48	
3	256QAM	15	0	13.54	13.68	13.42	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	19.83	19.85	19.82	21
1.4	QPSK	1	3	19.79	19.87	19.85	
1.4	QPSK	1	5	19.83	19.80	19.73	
1.4	QPSK	3	0	18.84	18.97	18.86	20
1.4	QPSK	3	1	18.89	19.05	18.80	
1.4	QPSK	3	3	18.83	18.95	18.84	
1.4	QPSK	6	0	18.84	18.98	18.84	20
1.4	16QAM	1	0	19.09	19.07	18.95	
1.4	16QAM	1	3	19.08	19.11	19.02	

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	20.72	20.83	20.75	22
10	QPSK	1	25	20.60	20.74	20.56	
10	QPSK	1	49	20.69	20.60	20.57	
10	QPSK	25	0	19.75	19.84	19.73	21
10	QPSK	25	12	19.59	19.67	19.60	
10	QPSK	25	25	19.46	19.63	19.65	
10	QPSK	50	0	19.53	19.64	19.50	21
10	16QAM	1	0	19.88	19.81	19.81	
10	16QAM	1	25	19.87	19.88	19.86	
10	16QAM	1	49	19.74	19.69	19.71	20
10	16QAM	25	0	18.60	18.70	18.68	
10	16QAM	25	12	18.49	18.74	18.69	
10	16QAM	25	25	18.61	18.56	18.74	20
10	16QAM	50	0	18.52	18.68	18.58	
10	64QAM	1	0	18.69	18.66	18.80	
10	64QAM	1	25	18.59	18.75	18.53	20
10	64QAM	1	49	18.65	18.56	18.54	
10	64QAM	25	0	17.66	17.68	17.74	
10	64QAM	25	12	17.49	17.63	17.72	19
10	64QAM	25	25	17.48	17.55	17.49	
10	64QAM	50	0	17.43	17.56	17.48	
10	256QAM	1	0	15.64	15.78	15.59	17
10	256QAM	1	25	15.50	15.74	15.66	
10	256QAM	1	49	15.61	15.54	15.53	
10	256QAM	25	0	14.57	14.76	14.65	16
10	256QAM	25	12	14.57	14.71	14.76	
10	256QAM	25	25	14.53	14.65	14.48	
10	256QAM	50	0	14.40	14.71	14.38	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	20.68	20.78	20.68	22
5	QPSK	1	12	20.47	20.61	20.56	
5	QPSK	1	24	20.56	20.56	20.45	
5	QPSK	12	0	19.68	19.80	19.58	21
5	QPSK	12	7	19.56	19.66	19.71	
5	QPSK	12	13	19.69	19.62	19.60	
5	QPSK	25	0	19.52	19.63	19.58	21
5	16QAM	1	0	19.79	19.87	19.84	
5	16QAM	1	12	19.87	19.92	19.73	
5	16QAM	1	24	19.82	19.74	19.62	20
5	16QAM	12	0	18.77	18.72	18.77	
5	16QAM	12	7	18.52	18.79	18.54	
5	16QAM	12	13	18.47	18.57	18.58	20
5	16QAM	25	0	18.63	18.70	18.78	
5	64QAM	1	0	18.81	18.81	18.75	
5	64QAM	1	12	18.65	18.67	18.71	20
5	64QAM	1	24	18.47	18.65	18.45	
5	64QAM	12	0	17.75	17.63	17.75	
5	64QAM	12	7	17.55	17.68	17.61	19
5	64QAM	12	13	17.48	17.56	17.66	
5	64QAM	25	0	17.60	17.49	17.57	
5	256QAM	1	0	15.63	15.72	15.43	17
5	256QAM	1	12	15.44	15.69	15.68	
5	256QAM	1	24	15.61	15.46	15.47	
5	256QAM	12	0	14.55	14.76	14.58	16
5	256QAM	12	7	14.45	14.64	14.82	
5	256QAM	12	13	14.68	14.48	14.53	
5	256QAM	25	0	14.57	14.67	14.49	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	20.71	20.77	20.68	22
3	QPSK	1	8	20.60	20.51	20.65	
3	QPSK	1	14	20.49	20.61	20.49	
3	QPSK	8	0	19.63	19.65	19.58	21
3	QPSK	8	4	19.69	19.75	19.52	
3	QPSK	8	7	19.60	19.56	19.60	
3	QPSK	15	0	19.71	19.55	19.66	21
3	16QAM	1	0	19.92	19.93	19.92	
3	16QAM	1	8	19.72	19.91	19.69	
3	16QAM	1	14	19.68	19.81	19.82	20
3	16QAM	8	0	18.75	18.88	18.86	
3	16QAM	8	4	18.60	18.78	18.65	
3	16QAM	8	7	18.61	18.70	18.70	20
3	16QAM	15	0	18.60	18.52	18.73	
3	64QAM	1	0	18.61	18.79	18.79	
3	64QAM	1	8	18.63	18.83	18.63	20
3	64QAM	1	14	18.67	18.59	18.57	
3	64QAM	8	0	17.63	17.80	17.71	
3	64QAM	8	4	17.61	17.53	17.73	19
3	64QAM	8	7	17.65	17.60	17.62	
3	64QAM	15	0	17.44	17.65	17.48	
3	256QAM	1	0	15.68	15.84	15.59	17
3	256QAM	1	8	15.50	15.72	15.81	
3	256QAM	1	14	15.67	15.43	15.54	
3	256QAM	8	0	14.46	14.67	14.54	16
3	256QAM	8	4	14.50	14.66	14.79	
3	256QAM	8	7	14.61	14.62	14.46	
3	256QAM	15	0	14.45	14.66	14.42	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	20.67	20.75	20.63	22
1.4	QPSK	1	3	20.65	20.57	20.67	
1.4	QPSK	1	5	20.52	20.63	20.61	
1.4	QPSK	3	0	19.60	19.77	19.68	
1.4	QPSK	3	1	19.49	19.61	19.61	
1.4	QPSK	3	3	19.68	19.63	19.64	21
1.4	QPSK	6	0	19.52	19.72	19.62	
1.4	16QAM	1	0	19.70	19.83	19.94	
1.4	16QAM	1	3	19.81	19.89	19.85	



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1.4	16QAM	1	5	19.07	18.99	18.85	20
1.4	16QAM	3	0	17.88	17.97	17.93	
1.4	16QAM	3	1	17.81	17.99	17.77	
1.4	16QAM	3	3	17.82	17.95	17.85	
1.4	16QAM	6	0	17.73	17.94	17.90	19
1.4	64QAM	1	0	18.05	18.04	17.93	
1.4	64QAM	1	3	17.84	17.86	17.97	19
1.4	64QAM	1	5	17.71	17.72	17.78	
1.4	64QAM	3	0	16.87	16.99	16.90	
1.4	64QAM	3	1	16.86	16.80	17.03	
1.4	64QAM	3	3	16.79	16.81	16.88	
1.4	64QAM	6	0	16.69	16.95	16.88	
1.4	256QAM	1	0	14.68	14.87	14.55	18
1.4	256QAM	1	3	14.60	14.75	14.76	
1.4	256QAM	1	5	14.64	14.52	14.66	16
1.4	256QAM	3	0	13.50	13.80	13.68	
1.4	256QAM	3	1	13.59	13.61	13.75	
1.4	256QAM	3	3	13.58	13.59	13.66	
1.4	256QAM	6	0	13.47	13.59	13.38	
1.4	256QAM	6	0	13.47	13.59	13.38	15

1.4	16QAM	1	5	19.77	19.73	19.80	21
1.4	16QAM	3	0	18.62	18.65	18.86	
1.4	16QAM	3	1	18.67	18.75	18.66	
1.4	16QAM	3	3	18.49	18.78	18.64	
1.4	16QAM	6	0	18.54	18.59	18.75	20
1.4	64QAM	1	0	18.58	18.77	18.77	
1.4	64QAM	1	3	18.71	18.59	18.59	20
1.4	64QAM	1	5	18.58	18.48	18.47	
1.4	64QAM	3	0	17.53	17.61	17.59	
1.4	64QAM	3	1	17.45	17.66	17.59	
1.4	64QAM	3	3	17.63	17.54	17.53	
1.4	64QAM	6	0	17.44	17.63	17.57	
1.4	256QAM	1	0	15.78	15.84	15.51	19
1.4	256QAM	1	3	15.48	15.65	15.67	
1.4	256QAM	1	5	15.61	15.57	15.54	17
1.4	256QAM	3	0	14.44	14.77	14.70	
1.4	256QAM	3	1	14.58	14.56	14.64	
1.4	256QAM	3	3	14.55	14.48	14.48	
1.4	256QAM	6	0	14.47	14.79	14.47	
1.4	256QAM	6	0	14.47	14.79	14.47	16

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		20.98		22
10	QPSK	1	25		20.86		
10	QPSK	1	49		20.80		
10	QPSK	25	0		20.13		21
10	QPSK	25	12		19.86		
10	QPSK	25	25		19.97		
10	QPSK	50	0		19.81		21
10	16QAM	1	0		20.01		
10	16QAM	1	25		19.93		
10	16QAM	1	49		19.94		20
10	16QAM	25	0		19.01		
10	16QAM	25	12		18.94		
10	16QAM	25	25		18.99		20
10	16QAM	50	0		18.91		
10	64QAM	1	0		19.06		
10	64QAM	1	25		18.83		20
10	64QAM	1	49		18.79		
10	64QAM	25	0		17.99		
10	64QAM	25	12		17.75		19
10	64QAM	25	25		17.92		
10	64QAM	50	0		17.92		
10	256QAM	1	0		15.80		17
10	256QAM	1	25		15.74		
10	256QAM	1	49		15.58		
10	256QAM	25	0		14.68		16
10	256QAM	25	12		14.60		
10	256QAM	25	25		14.47		
10	256QAM	50	0		14.75		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	20.88	20.92	20.85	22
5	QPSK	1	12	20.70	20.76	20.84	
5	QPSK	1	24	20.86	20.84	20.88	
5	QPSK	12	0	19.99	20.03	19.94	21
5	QPSK	12	7	19.75	19.98	19.93	
5	QPSK	12	13	19.70	19.78	19.78	
5	QPSK	25	0	19.83	19.81	19.89	21
5	16QAM	1	0	20.08	20.24	20.09	
5	16QAM	1	12	20.07	19.94	19.90	
5	16QAM	1	24	20.07	19.94	20.09	20
5	16QAM	12	0	19.00	18.90	18.88	
5	16QAM	12	7	18.83	18.95	18.84	
5	16QAM	12	13	18.84	19.05	18.91	20
5	16QAM	25	0	18.91	18.93	18.84	
5	64QAM	1	0	18.87	19.07	18.95	
5	64QAM	1	12	18.78	19.04	18.84	20
5	64QAM	1	24	18.86	18.89	18.85	
5	64QAM	12	0	17.80	18.05	17.81	
5	64QAM	12	7	17.75	17.84	17.80	19
5	64QAM	12	13	17.88	17.95	17.84	
5	64QAM	25	0	17.79	17.91	17.73	
5	256QAM	1	0	15.71	15.72	15.45	17
5	256QAM	1	12	15.56	15.58	15.64	
5	256QAM	1	24	15.51	15.40	15.36	
5	256QAM	12	0	14.46	14.69	14.70	16
5	256QAM	12	7	14.42	14.53	14.72	
5	256QAM	12	13	14.67	14.65	14.36	
5	256QAM	25	0	14.47	14.71	14.43	

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	22
Frequency (MHz)				709	710	711	
10	QPSK	1	0	20.62	20.69	20.60	22
10	QPSK	1	25	20.48	20.38	20.36	
10	QPSK	1	49	20.42	20.46	20.45	
10	QPSK	25	0	19.63	19.68	19.64	21
10	QPSK	25	12	19.52	19.40	19.54	
10	QPSK	25	25	19.42	19.50	19.42	
10	QPSK	50	0	19.44	19.35	19.43	21
10	16QAM	1	0	19.78	19.83	19.70	
10	16QAM	1	25	19.65	19.55	19.70	
10	16QAM	1	49	19.59	19.72	19.51	20
10	16QAM	25	0	18.49	18.69	18.68	
10	16QAM	25	12	18.45	18.52	18.39	
10	16QAM	25	25	18.42	18.61	18.40	20
10	16QAM	50	0	18.40	18.53	18.40	
10	64QAM	1	0	18.56	18.63	18.55	
10	64QAM	1	25	18.45	18.61	18.46	20
10	64QAM	1	49	18.39	18.47	18.37	
10	64QAM	25	0	17.49	17.64	17.45	
10	64QAM	25	12	17.33	17.36	17.45	19
10	64QAM	25	25	17.52	17.36	17.32	
10	64QAM	50	0	17.39	17.33	17.26	
10	256QAM	1	0	15.67	15.66	15.44	17
10	256QAM	1	25	15.58	15.68	15.58	
10	256QAM	1	49	15.53	15.55	15.40	
10	256QAM	25	0	14.49	14.64	14.67	16
10	256QAM	25	12	14.43	14.66	14.66	
10	256QAM	25	25	14.62	14.48	14.47	
10	256QAM	50	0	14.50	14.69	14.45	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	20.58	20.65	20.52	22
5	QPSK	1	12	20.44	20.34	20.33	
5	QPSK	1	24	20.36	20.44	20.45	
5	QPSK	12	0	19.43	19.61	19.51	21
5	QPSK	12	7	19.33	19.53	19.38	
5	QPSK	12	13	19.39	19.49	19.43	
5	QPSK	25	0	19.35	19.40	19.37	21
5	16QAM	1	0	19.77	19.64	19.62	
5	16QAM	1	12	19.66	19.74	19.67	
5	16QAM	1	24	19.46	19.58	19.50	20
5	16QAM	12	0	18.63	18.64	18.60	
5	16QAM	12	7	18.35	18.56	18.54	
5	16QAM	12	13	18.50	18.41	18.38	20
5	16QAM	25	0	18.38	18.39	18.42	
5	64QAM	1	0	18.46	18.51	18.47	
5	64QAM	1	12	18.54	18.59	18.55	19
5	64QAM	1	24	18.36	18.34	18.40	
5	64QAM	12	0	17.57	17.58	17.50	
5	64QAM	12	7	17.26	17.40	17.47	19
5	64QAM	12	13	17.50	17.58	17.47	
5	64QAM	25	0	17.37	17.41	17.39	
5	256QAM	1	0	15.70	15.71	15.54	17
5	256QAM	1	12	15.41	15.62	15.72	
5	256QAM	1	24	15.49	15.39	15.36	
5	256QAM	12	0	14.52	14.67	14.51	16
5	256QAM	12	7	14.45	14.59	14.64	
5	256QAM	12	13	14.48	14.50	14.44	
5	256QAM	25	0	14.45	14.60	14.38	

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	21.71	21.85	21.74	23
20	QPSK	1	49	21.53	21.68	21.64	
20	QPSK	1	99	21.56	21.63	21.55	
20	QPSK	50	0	20.79	20.86	20.71	22
20	QPSK	50	24	20.64	20.76	20.77	
20	QPSK	50	50	20.65	20.72	20.47	
20	QPSK	100	0	20.67	20.75	20.69	22
20	16QAM	1	0	20.90	20.87	20.81	
20	16QAM	1	49	20.95	20.90	21.01	
20	16QAM	1	99	20.91	21.08	20.81	21
20	16QAM	50	0	19.79	19.89	19.87	
20	16QAM	50	24	19.71	19.83	19.67	
20	16QAM	50	50	19.78	19.75	19.68	21
20	16QAM	100	0	19.54	19.76	19.77	
20	64QAM	1	0	19.75	19.93	19.56	
20	64QAM	1	49	19.72	19.75	19.58	21
20	64QAM	1	99	19.94	19.70	19.67	
20	64QAM	50	0	18.75	18.89	18.64	
20	64QAM	50	24	18.67	18.67	18.83	20
20	64QAM	50	50	18.85	18.63	18.66	
20	64QAM	100	0	18.76	18.77	18.50	
20	256QAM	1	0	16.63	16.78	16.46	18
20	256QAM	1	49	16.58	16.64	16.62	
20	256QAM	1	99	16.51	16.54	16.51	
20	256QAM	50	0	15.57	15.82	15.58	17
20	256QAM	50	24	15.53	15.54	15.61	
20	256QAM	50	50	15.58	15.62	15.32	
20	256QAM	100	0	15.58	15.60	15.45	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	21.68	21.79	21.76	23
15	QPSK	1	37	21.56	21.61	21.45	
15	QPSK	1	74	21.63	21.59	21.62	
15	QPSK	36	0	20.75	20.87	20.65	22
15	QPSK	36	20	20.65	20.82	20.62	
15	QPSK	36	39	20.63	20.78	20.50	
15	QPSK	75	0	20.66	20.70	20.75	22
15	16QAM	1	0	20.95	20.96	20.95	
15	16QAM	1	37	20.96	20.88	21.00	
15	16QAM	1	74	20.77	20.92	20.77	21
15	16QAM	36	0	19.83	19.91	19.85	
15	16QAM	36	20	19.61	19.82	19.78	
15	16QAM	36	39	19.78	19.65	19.61	21
15	16QAM	75	0	19.61	19.72	19.77	
15	64QAM	1	0	19.69	19.92	19.73	
15	64QAM	1	37	19.66	19.81	19.58	20
15	64QAM	1	74	19.77	19.80	19.65	
15	64QAM	36	0	18.73	18.89	18.61	
15	64QAM	36	20	18.75	18.60	18.77	18
15	64QAM	36	39	18.79	18.73	18.58	
15	64QAM	75	0	18.70	18.86	18.53	
15	256QAM	1	0	16.65	16.78	16.46	17
15	256QAM	1	37	16.43	16.77	16.63	
15	256QAM	1	74	16.64	16.59	16.52	
15	256QAM	36	0	15.47	15.69	15.65	17
15	256QAM	36	20	15.52	15.73	15.69	
15	256QAM	36	39	15.53	15.52	15.43	
15	256QAM	75	0	15.46	15.62	15.49	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	21.71	21.77	21.61	23
10	QPSK	1	25	21.60	21.74	21.47	
10	QPSK	1	49	21.50	21.70	21.45	
10	QPSK	25	0	20.86	20.88	20.65	22
10	QPSK	25	12	20.74	20.95	20.71	
10	QPSK	25	25	20.67	20.79	20.63	
10	QPSK	50	0	20.62	20.68	20.64	22
10	16QAM	1	0	20.87	20.88	20.95	
10	16QAM	1	25	20.97	21.02	20.97	
10	16QAM	1	49	20.91	20.93	20.83	21
10	16QAM	25	0	19.86	19.88	19.86	
10	16QAM	25	12	19.65	19.91	19.71	
10	16QAM	25	25	19.78	19.75	19.65	21
10	16QAM	50	0	19.65	19.71	19.78	
10	64QAM	1	0	19.79	19.80	19.67	
10	64QAM	1	25	19.64	19.68	19.68	20
10	64QAM	1	49	19.93	19.68	19.69	
10	64QAM	25	0	18.64	18.94	18.59	
10	64QAM	25	12	18.87	18.71	18.82	18
10	64QAM	25	25	18.75	18.63	18.57	
10	64QAM	50	0	18.64	18.77	18.52	
10	256QAM	1	0	16.62	16.85	16.53	17
10	256QAM	1	25	16.52	16.78	16.62	
10	256QAM	1	49	16.69	16.41	16.43	
10	256QAM	25	0	15.55	15.76	15.59	17
10	256QAM	25	12	15.52	15.66	15.79	
10	256QAM	25	25	15.63	15.55	15.41	
10	256QAM	50	0	15.46	15.63	15.48	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	21.73	21.78	21.65	23
5	QPSK	1	12	21.59	21.72	21.58	
5	QPSK	1	24	21.48	21.62	21.47	
5	QPSK	12	0	20.87	20.82	20.80	22
5	QPSK	12	7	20.77	20.88	20.76	
5	QPSK	12	13	20.65	20.89	20.60	
5	QPSK	25	0	20.71	20.66	20.69	22
5	16QAM	1	0	20.93	20.90	20.96	
5	16QAM	1	12	20.89	20.98	20.99	

5	16QAM	1	24	20.82	20.98	20.77	21
5	16QAM	12	0	19.89	20.00	19.88	
5	16QAM	12	7	19.70	19.86	19.86	
5	16QAM	12	13	19.70	19.73	19.71	
5	16QAM	25	0	19.69	19.56	19.67	21
5	64QAM	1	0	19.78	19.85	19.72	
5	64QAM	1	12	19.59	19.71	19.58	
5	64QAM	1	24	19.83	19.63	19.59	
5	64QAM	12	0	18.58	18.79	18.63	20
5	64QAM	12	7	18.68	18.61	18.69	
5	64QAM	12	13	18.70	18.69	18.55	
5	64QAM	25	0	18.72	18.75	18.56	
5	256QAM	1	0	16.62	16.78	16.43	18
5	256QAM	1	12	16.44	16.74	16.72	
5	256QAM	1	24	16.52	16.57	16.45	
5	256QAM	12	0	15.58	15.66	15.69	
5	256QAM	12	7	15.56	15.54	15.64	17
5	256QAM	12	13	15.57	15.49	15.47	
5	256QAM	25	0	15.43	15.58	15.50	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	21.59	21.75	21.60	23
3	QPSK	1	8	21.64	21.70	21.47	
3	QPSK	1	14	21.65	21.56	21.59	
3	QPSK	8	0	20.82	20.85	20.73	
3	QPSK	8	4	20.59	20.86	20.82	22
3	QPSK	8	7	20.61	20.75	20.58	
3	QPSK	15	0	20.58	20.60	20.64	
3	16QAM	1	0	20.87	20.89	20.96	
3	16QAM	1	8	20.81	20.86	20.96	22
3	16QAM	1	14	20.92	20.98	20.70	
3	16QAM	8	0	19.95	19.84	19.91	
3	16QAM	8	4	19.74	19.81	19.74	
3	16QAM	8	7	19.71	19.84	19.71	21
3	16QAM	15	0	19.57	19.72	19.77	
3	64QAM	1	0	19.63	19.86	19.61	
3	64QAM	1	8	19.58	19.75	19.75	
3	64QAM	1	14	19.89	19.65	19.71	20
3	64QAM	8	0	18.63	18.88	18.62	
3	64QAM	8	4	18.79	18.62	18.73	
3	64QAM	8	7	18.74	18.80	18.62	
3	64QAM	15	0	18.73	18.76	18.53	18
3	256QAM	1	0	16.66	16.68	16.60	
3	256QAM	1	8	16.48	16.60	16.68	
3	256QAM	1	14	16.59	16.53	16.44	
3	256QAM	8	0	15.53	15.76	15.80	17
3	256QAM	8	4	15.58	15.57	15.68	
3	256QAM	8	7	15.58	15.55	15.65	
3	256QAM	15	0	15.46	15.58	15.53	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.68	21.76	21.70	23
1.4	QPSK	1	3	21.72	21.63	21.56	
1.4	QPSK	1	5	21.48	21.60	21.54	
1.4	QPSK	3	0	20.75	20.88	20.81	
1.4	QPSK	3	1	20.70	20.80	20.66	
1.4	QPSK	3	3	20.70	20.76	20.54	
1.4	QPSK	6	0	20.66	20.63	20.78	23
1.4	16QAM	1	0	20.90	20.90	20.83	23
1.4	16QAM	1	3	20.98	21.02	20.92	
1.4	16QAM	1	5	20.77	20.97	20.69	
1.4	16QAM	3	0	19.82	19.87	19.75	
1.4	16QAM	3	1	19.58	19.79	19.78	
1.4	16QAM	3	3	19.67	19.88	19.72	
1.4	16QAM	6	0	19.64	19.62	19.60	22
1.4	64QAM	1	0	19.70	19.90	19.64	22
1.4	64QAM	1	3	19.73	19.63	19.58	
1.4	64QAM	1	5	19.88	19.81	19.63	
1.4	64QAM	3	0	18.59	18.77	18.57	
1.4	64QAM	3	1	18.76	18.72	18.80	
1.4	64QAM	3	3	18.72	18.63	18.68	
1.4	64QAM	6	0	18.82	18.84	18.66	21
1.4	256QAM	1	0	16.66	16.70	16.62	18
1.4	256QAM	1	3	16.54	16.73	16.73	
1.4	256QAM	1	5	16.58	16.54	16.52	
1.4	256QAM	3	0	15.54	15.71	15.70	
1.4	256QAM	3	1	15.52	15.66	15.80	
1.4	256QAM	3	3	15.49	15.47	15.44	
1.4	256QAM	6	0	15.53	15.71	15.57	17

Band 66 (dBm) Ant1							
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	21.74	21.85	21.77	23
20	QPSK	1	49	21.56	21.71	21.67	
20	QPSK	1	99	21.59	21.66	21.58	
20	QPSK	50	0	20.82	20.86	20.74	22
20	QPSK	50	24	20.67	20.79	20.80	
20	QPSK	50	50	20.68	20.75	20.50	
20	QPSK	100	0	20.70	20.78	20.72	22
20	16QAM	1	0	20.93	20.90	20.84	
20	16QAM	1	49	20.98	20.93	21.04	
20	16QAM	1	99	20.94	21.11	20.84	21
20	16QAM	50	0	19.82	19.92	19.90	
20	16QAM	50	24	19.74	19.86	19.70	
20	16QAM	50	50	19.81	19.78	19.71	21
20	16QAM	100	0	19.57	19.79	19.80	
20	64QAM	1	0	19.78	19.96	19.59	
20	64QAM	1	49	19.75	19.78	19.61	21
20	64QAM	1	99	19.97	19.73	19.70	
20	64QAM	50	0	18.78	18.92	18.67	
20	64QAM	50	24	18.70	18.70	18.86	20
20	64QAM	50	50	18.88	18.66	18.69	
20	64QAM	100	0	18.79	18.80	18.53	
20	256QAM	1	0	16.66	16.81	16.49	19
20	256QAM	1	49	16.61	16.67	16.65	
20	256QAM	1	99	16.54	16.57	16.54	
20	256QAM	50	0	15.60	15.85	15.61	18
20	256QAM	50	24	15.56	15.57	15.64	
20	256QAM	50	50	15.61	15.65	15.35	
20	256QAM	100	0	15.61	15.63	15.48	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	21.71	21.82	21.79	23
15	QPSK	1	37	21.59	21.64	21.48	
15	QPSK	1	74	21.66	21.62	21.65	
15	QPSK	36	0	20.78	20.90	20.68	22
15	QPSK	36	20	20.68	20.85	20.65	
15	QPSK	36	39	20.66	20.81	20.53	
15	QPSK	75	0	20.69	20.73	20.78	22
15	16QAM	1	0	20.98	20.99	20.98	
15	16QAM	1	37	20.99	20.91	21.03	
15	16QAM	1	74	20.80	20.95	20.80	21
15	16QAM	36	0	19.86	19.94	19.88	
15	16QAM	36	20	19.64	19.85	19.81	
15	16QAM	36	39	19.81	19.88	19.64	21
15	16QAM	75	0	19.64	19.75	19.80	
15	64QAM	1	0	19.72	19.95	19.76	
15	64QAM	1	37	19.69	19.84	19.61	21
15	64QAM	1	74	19.80	19.83	19.68	
15	64QAM	36	0	18.76	18.92	18.64	
15	64QAM	36	20	18.78	18.63	18.80	20
15	64QAM	36	39	18.82	18.76	18.61	
15	64QAM	75	0	18.73	18.89	18.56	
15	256QAM	1	0	16.68	16.81	16.49	19
15	256QAM	1	37	16.46	16.80	16.66	
15	256QAM	1	74	16.67	16.62	16.55	
15	256QAM	36	0	15.50	15.72	15.68	18
15	256QAM	36	20	15.55	15.76	15.72	
15	256QAM	36	39	15.56	15.55	15.46	
15	256QAM	75	0	15.49	15.65	15.52	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	21.74	21.80	21.64	23
10	QPSK	1	25	21.63	21.77	21.50	
10	QPSK	1	49	21.53	21.73	21.48	
10	QPSK	25	0	20.89	20.91	20.68	22
10	QPSK	25	12	20.77	20.98	20.74	
10	QPSK	25	25	20.70	20.82	20.66	
10	QPSK	50	0	20.65	20.71	20.67	22
10	16QAM	1	0	20.90	20.91	20.98	
10	16QAM	1	25	21.00	21.05	21.00	
10	16QAM	1	49	20.94	20.96	20.86	21
10	16QAM	25	0	19.89	19.91	19.89	
10	16QAM	25	12	19.68	19.94	19.74	
10	16QAM	25	25	19.81	19.78	19.68	21
10	16QAM	50	0	19.68	19.74	19.81	
10	64QAM	1	0	19.82	19.83	19.70	
10	64QAM	1	25	19.67	19.71	19.71	21
10	64QAM	1	49	19.96	19.71	19.72	
10	64QAM	25	0	18.67	18.97	18.62	
10	64QAM	25	12	18.90	18.74	18.85	20
10	64QAM	25	25	18.78	18.66	18.60	
10	64QAM	50	0	18.67	18.80	18.55	
10	256QAM	1	0	16.65	16.88	16.56	19
10	256QAM	1	25	16.55	16.81	16.65	
10	256QAM	1	49	16.72	16.44	16.46	
10	256QAM	25	0	15.58	15.79	15.62	18
10	256QAM	25	12	15.55	15.69	15.82	
10	256QAM	25	25	15.66	15.58	15.44	
10	256QAM	50	0	15.49	15.66	15.51	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	21.76	21.81	21.68	23
5	QPSK	1	12	21.62	21.75	21.61	
5	QPSK	1	24	21.51	21.65	21.50	
5	QPSK	12	0	20.90	20.85	20.83	22
5	QPSK	12	7	20.80	20.91	20.79	
5	QPSK	12	13	20.68	20.92	20.63	
5	QPSK	25	0	20.74	20.69	20.72	22
5	16QAM	1	0	20.96	20.93	20.99	
5	16QAM	1	12	20.92	21.01	21.02	

5	16QAM	1	24	20.85	21.01	20.80	21
5	16QAM	12	0	19.92	20.03	19.91	
5	16QAM	12	7	19.73	19.89	19.89	
5	16QAM	12	13	19.73	19.78	19.74	
5	16QAM	25	0	19.72	19.59	19.70	21
5	64QAM	1	0	19.81	19.88	19.75	
5	64QAM	1	12	19.62	19.74	19.61	
5	64QAM	1	24	19.86	19.66	19.62	
5	64QAM	12	0	18.61	18.82	18.66	20
5	64QAM	12	7	18.71	18.64	18.72	
5	64QAM	12	13	18.73	18.72	18.58	
5	64QAM	25	0	18.75	18.78	18.59	
5	256QAM	1	0	16.65	16.81	16.46	19
5	256QAM	1	12	16.47	16.77	16.75	
5	256QAM	1	24	16.55	16.60	16.48	
5	256QAM	12	0	15.61	15.69	15.72	
5	256QAM	12	7	15.59	15.57	15.67	17
5	256QAM	12	13	15.60	15.52	15.50	
5	256QAM	25	0	15.46	15.61	15.53	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	21.62	21.78	21.63	23
3	QPSK	1	8	21.67	21.73	21.50	
3	QPSK	1	14	21.68	21.59	21.62	
3	QPSK	8	0	20.85	20.88	20.76	
3	QPSK	8	4	20.62	20.89	20.85	22
3	QPSK	8	7	20.64	20.78	20.61	
3	QPSK	15	0	20.61	20.63	20.67	
3	16QAM	1	0	20.90	20.92	20.99	
3	16QAM	1	8	20.84	20.89	20.99	22
3	16QAM	1	14	20.95	21.01	20.73	
3	16QAM	8	0	19.98	19.87	19.94	
3	16QAM	8	4	19.77	19.84	19.77	
3	16QAM	8	7	19.74	19.87	19.74	21
3	16QAM	15	0	19.60	19.75	19.80	
3	64QAM	1	0	19.66	19.89	19.64	
3	64QAM	1	8	19.61	19.78	19.78	
3	64QAM	1	14	19.92	19.68	19.74	21
3	64QAM	8	0	18.66	18.91	18.65	
3	64QAM	8	4	18.62	18.65	18.76	
3	64QAM	8	7	18.77	18.83	18.65	
3	64QAM	15	0	18.76	18.79	18.56	20
3	256QAM	1	0	16.69	16.71	16.63	
3	256QAM	1	8	16.51	16.63	16.71	
3	256QAM	1	14	16.62	16.56	16.47	
3	256QAM	8	0	15.56	15.79	15.63	19
3	256QAM	8	4	15.61	15.60	15.71	
3	256QAM	8	7	15.61	15.58	15.68	
3	256QAM	15	0	15.49	15.61	15.56	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.71	21.79	21.73	23
1.4	QPSK	1	3	21.75	21.66	21.59	
1.4	QPSK	1	5	21.51	21.63	21.57	
1.4	QPSK	3	0	20.78	20.91	20.84	
1.4	QPSK	3	1	20.73	20.83	20.69	23
1.4	QPSK	3	3	20.73	20.79	20.57	
1.4	QPSK	6	0	20.69	20.66	20.81	
1.4	16QAM	1	0	20.93	20.93	20.86	
1.4	16QAM	1	3	21.01	21.05	20.95	23
1.4	16QAM	1	5	20.80	21.00	20.72	
1.4	16QAM	3	0	19.85	19.90	19.78	
1.4	16QAM	3	1	19.61	19.82	19.81	
1.4	16QAM	3	3	19.70	19.91	19.75	22
1.4	16QAM	6	0	19.67	19.65	19.63	
1.4	64QAM	1	0	19.73	19.93	19.67	
1.4	64QAM	1	3	19.76	19.66	19.61	
1.4	64QAM	1	5	19.91	19.84	19.66	22
1.4	64QAM	3	0	18.62	18.80	18.60	
1.4	64QAM	3	1	18.79	18.75	18.83	
1.4	64QAM	3	3	18.75	18.66	18.71	
1.4	64QAM	6	0	18.85	18.87	18.69	21
1.4	256QAM	1	0	16.69	16.73	16.65	
1.4	256QAM	1	3	16.57	16.76	16.76	
1.4	256QAM	1	5	16.61	16.57	16.55	
1.4	256QAM	3	0	15.57	15.74	15.73	19
1.4	256QAM	3	1	15.55	15.69	15.83	
1.4	256QAM	3	3	15.52	15.50	15.47	
1.4	256QAM	6	0	15.56	15.74	15.60	

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	Tune-up limit (dBm)		
Frequency (MHz)				3560	3609	3625	3641	3690			
20	QPSK	1	0	17.03	17.06	17.12	17.04	16.96	18		
20	QPSK	1	49	16.53	16.55	16.55	16.58	16.57			
20	QPSK	1	99	16.59	16.57	16.59	16.39	16.53			
20	QPSK	50	0	16.13	16.04	16.19	15.99	15.89	17		
20	QPSK	50	24	15.58	15.57	15.63	15.67	15.56			
20	QPSK	50	50	15.58	15.49	15.71	15.52	15.36			
20	QPSK	100	0	15.60	15.51	15.60	15.53	15.34	17		
20	16QAM	1	0	15.86	15.81	15.91	15.86	15.71			
20	16QAM	1	49	15.76	15.88	15.73	15.66	15.57			
20	16QAM	1	99	15.74	15.66	15.79	15.75	15.60	16		
20	16QAM	50	0	14.52	14.68	14.60	14.67	14.54			
20	16QAM	50	24	14.54	14.55	14.63	14.51	14.35			
20	16QAM	50	50	14.52	14.45	14.65	14.38	14.29	16		
20	16QAM	100	0	14.55	14.49	14.59	14.53	14.39			
20	64QAM	1	0	14.72	14.73	14.77	14.56	14.63			
20	64QAM	1	49	14.72	14.64	14.68	14.62	14.55	16		
20	64QAM	1	99	14.53	14.50	14.69	14.60	14.41			
20	64QAM	50	0	14.52	14.52	14.66	14.56	14.38			
20	64QAM	50	24	14.41	14.55	14.53	14.54	14.42	15		
20	64QAM	50	50	14.57	14.42	14.52	14.43	14.33			
20	64QAM	100	0	14.52	14.42	14.60	14.46	14.28			
20	256QAM	1	0	11.53	11.47	11.54	11.41	11.26	12		
20	256QAM	1	49	11.41	11.37	11.43	11.43	11.47			
20	256QAM	1	99	11.41	11.33	11.23	11.21	11.31			
20	256QAM	50	0	10.26	10.33	10.59	10.41	10.31	12		
20	256QAM	50	24	10.32	10.36	10.49	10.48	10.44			
20	256QAM	50	50	10.31	10.47	10.30	10.22	10.28			
20	256QAM	100	0	10.31	10.35	10.51	10.19	10.16			
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	16.57	16.63	16.65	16.64	16.59	18		
15	QPSK	1	37	16.51	16.54	16.54	16.58	16.57			
15	QPSK	1	74	16.53	16.59	16.59	16.59	16.49			
15	QPSK	36	0	15.63	15.74	15.69	15.73	15.63	17		
15	QPSK	36	20	15.65	15.62	15.67	15.75	15.69			
15	QPSK	36	39	15.66	15.67	15.69	15.57	15.55			
15	QPSK	75	0	15.56	15.52	15.64	15.58	15.68	17		
15	16QAM	1	0	15.92	15.74	15.88	15.88	15.90			
15	16QAM	1	37	15.86	15.69	15.73	15.79	15.75			
15	16QAM	1	74	15.74	15.64	15.77	15.90	15.63	16		
15	16QAM	36	0	14.50	14.67	14.67	14.77	14.58			
15	16QAM	36	20	14.47	14.62	14.58	14.75	14.52			
15	16QAM	36	39	14.44	14.46	14.54	14.62	14.54	16		
15	16QAM	75	0	14.46	14.40	14.50	14.75	14.58			
15	64QAM	1	0	14.67	14.71	14.69	14.72	14.79			
15	64QAM	1	37	14.68	14.69	14.61	14.62	14.65	16		
15	64QAM	1	74	14.64	14.59	14.51	14.67	14.57			
15	64QAM	36	0	14.44	14.50	14.53	14.66	14.63			
15	64QAM	36	20	14.50	14.55	14.38	14.59	14.49	15		
15	64QAM	36	39	14.44	14.40	14.60	14.67	14.52			
15	64QAM	75	0	14.41	14.46	14.41	14.49	14.37			
15	256QAM	1	0	11.53	11.49	11.49	11.34	11.23	12		
15	256QAM	1	37	11.26	11.22	11.40	11.41	11.59			
15	256QAM	1	74	11.50	11.42	11.31	11.23	11.25			
15	256QAM	36	0	10.28	10.21	10.56	10.40	10.35	12		
15	256QAM	36	20	10.41	10.25	10.51	10.45	10.47			
15	256QAM	36	39	10.32	10.49	10.31	10.26	10.21			
15	256QAM	75	0	10.32	10.32	10.43	10.12	10.24			
Channel				55290	55815	55990	56165	56690	Tune-up limit (dBm)		
Frequency (MHz)				3555	3607.5	3625	3642.5	3695			
10	QPSK	1	0	16.55	16.62	16.64	16.53	16.48	18		
10	QPSK	1	25	16.59	16.50	16.65	16.55	16.31			
10	QPSK	1	49	16.50	16.60	16.62	16.47	16.46			
10	QPSK	25	0	15.72	15.69	15.81	15.70	15.51	17		
10	QPSK	25	12	15.68	15.63	15.61	15.52	15.58			
10	QPSK	25	25	15.56	15.59	15.59	15.52	15.52			
10	QPSK	50	0	15.57	15.59	15.73	15.54	15.48	17		
10	16QAM	1	0	15.90	15.90	15.80	15.76	15.65			
10	16QAM	1	25	15.70	15.74	15.72	15.76	15.64			
10	16QAM	1	49	15.80	15.62	15.75	15.78	15.62	16		
10	16QAM	25	0	14.51	14.53	14.63	14.62	14.58			
10	16QAM	25	12	14.52	14.59	14.71	14.52	14.33			
10	16QAM	25	25	14.44	14.42	14.49	14.57	14.38	16		
10	16QAM	50	0	14.45	14.49	14.64	14.59	14.47			
10	64QAM	1	0	14.71	14.70	14.69	14.72	14.80			
10	64QAM	1	25	14.60	14.61	14.78	14.50	14.44	16		
10	64QAM	1	49	14.49	14.62	14.68	14.60	14.42			
10	64QAM	25	0	14.61	14.51	14.67	14.44	14.51			
10	64QAM	25	12	14.42	14.40	14.50	14.52	14.46	15		
10	64QAM	25	25	14.50	14.42	14.49	14.37	14.35			
10	64QAM	50	0	14.37	14.33	14.58	14.43	14.27			
10	256QAM	1	0	11.50	11.49	11.47	11.34	11.30	11		
10	256QAM	1	25	11.24	11.27	11.45	11.55	11.49			
10	256QAM	1	49	11.48	11.46	11.21	11.17	11.23			
10	256QAM	25	0	10.35	10.39	10.60	10.31	10.44	11		
10	256QAM	25	12	10.39	10.38	10.50	10.57	10.49			
10	256QAM	25	25	10.49	10.31	10.38	10.26	10.20			
10	256QAM	50	0	10.27	10.27	10.57	10.23	10.24			
Channel				55265	55810	55990	56170	56175	Tune-up limit (dBm)		
Frequency (MHz)				3552.5	3607	3625	3643	3697.5			
5	QPSK	1	0	16.60	16.59	16.62	16.56	16.48	18		
5	QPSK	1	12	16.51	16.57	16.56	16.47	16.39			
5	QPSK	1	24	16.49	16.49	16.50	16.48	16.39			
5	QPSK	12	0	15.79	15.80	15.70	15.65	15.66	17		
5	QPSK	12	7	15.70	15.52	15.79	15.57	15.39			
5	QPSK	12	13	15.51	15.67	15.69	15.55	15.36			
5	QPSK	25	0	15.59	15.56	15.56	15.56	15.36	17		
5	16QAM	1	0	15.82	15.89	15.81	15.70	15.73			

5	16QAM	1	12	15.74	15.86	15.77	15.63	15.55	17
5	16QAM	1	24	15.78	15.68	15.80	15.75	15.50	
5	16QAM	12	0	14.61	14.49	14.65	14.59	14.56	
5	16QAM	12	7	14.56	14.51	14.58	14.46	14.41	16
5	16QAM	12	13	14.42	14.53	14.66	14.47	14.37	
5	16QAM	25	0	14.57	14.42	14.56	14.56	14.43	
5	64QAM	1	0	14.76	14.63	14.71	14.64	14.58	16
5	64QAM	1	12	14.62	14.60	14.66	14.58	14.43	
5	64QAM	1	24	14.57	14.53	14.64	14.60	14.50	
5	64QAM	12	0	14.53	14.59	14.59	14.45	14.36	15
5	64QAM	12	7	14.38	14.39	14.41	14.46	14.53	
5	64QAM	12	13	14.60	14.59	14.46	14.56	14.43	
5	64QAM	25	0	14.52	14.39	14.41	14.39	14.34	18
5	256QAM	1	0	11.56	11.53	11.49	11.28	11.37	
5	256QAM	1	12	11.33	11.26	11.40	11.44	11.56	
5	256QAM	1	24	11.44	11.47	11.37	11.31	11.17	12
5	256QAM	12	0	10.38	10.38	10.51	10.35	10.47	
5	256QAM	12	7	10.34	10.37	10.52	10.53	10.58	
5	256QAM	12	13	10.30	10.38	10.30	10.26	10.26	12
5	256QAM	25	0	10.27	10.24	10.53	10.25	10.29	

Band 48 (3.5G Band) (dBm) Ant3											
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	Tune-up limit (dBm)		
Frequency (MHz)				3560	3609	3625	3641	3690			
20	QPSK	1	0	20.06	20.09	20.12	20.07	19.99	21		
20	QPSK	1	49	19.56	19.58	19.58	19.61	19.60			
20	QPSK	1	99	19.62	19.60	19.62	19.42	19.56			
20	QPSK	50	0	19.16	19.07	19.19	19.02	18.92	20		
20	QPSK	50	24	18.61	18.60	18.66	18.70	18.59			
20	QPSK	50	50	18.61	18.52	18.74	18.55	18.39			
20	QPSK	100	0	18.63	18.54	18.63	18.56	18.37	20		
20	16QAM	1	0	18.89	18.84	18.94	18.89	18.74			
20	16QAM	1	49	18.79	18.91	18.76	18.69	18.60			
20	16QAM	1	99	18.77	18.69	18.82	18.78	18.63	19		
20	16QAM	50	0	17.55	17.71	17.63	17.70	17.57			
20	16QAM	50	24	17.57	17.58	17.66	17.54	17.38			
20	16QAM	50	50	17.55	17.48	17.68	17.41	17.32	19		
20	16QAM	100	0	17.58	17.52	17.62	17.56	17.42			
20	64QAM	1	0	17.75	17.76	17.80	17.59	17.66			
20	64QAM	1	49	17.75	17.67	17.71	17.65	17.58	19		
20	64QAM	1	99	17.56	17.53	17.72	17.63	17.44			
20	64QAM	50	0	17.55	17.55	17.69	17.59	17.41			
20	64QAM	50	24	17.44	17.58	17.56	17.57	17.45	18		
20	64QAM	50	50	17.60	17.45	17.55	17.46	17.36			
20	64QAM	100	0	17.55	17.45	17.63	17.49	17.31			
20	256QAM	1	0	14.56	14.50	14.57	14.44	14.29	15		
20	256QAM	1	49	14.44	14.40	14.46	14.46	14.50			
20	256QAM	1	99	14.44	14.36	14.26	14.24	14.34			
20	256QAM	50	0	13.29	13.36	13.62	13.44	13.34	15		
20	256QAM	50	24	13.35	13.39	13.52	13.51	13.47			
20	256QAM	50	50	13.34	13.50	13.33	13.25	13.31			
20	256QAM	100	0	13.34	13.38	13.54	13.22	13.19			
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	19.60	19.66	19.68	19.67	19.62	21		
15	QPSK	1	37	19.54	19.57	19.57	19.61	19.60			
15	QPSK	1	74	19.56	19.62	19.62	19.62	19.52			
15	QPSK	36	0	18.66	18.77	18.72	18.76	18.66	20		
15	QPSK	36	20	18.68	18.65	18.70	18.78	18.72			
15	QPSK	36	39	18.69	18.70	18.72	18.60	18.58			
15	QPSK	75	0	18.59	18.55	18.67	18.61	18.71	20		
15	16QAM	1	0	18.95	18.77	18.91	18.91	18.93			
15	16QAM	1	37	18.89	18.72	18.76	18.82	18.78			
15	16QAM	1	74	18.77	18.67	18.80	18.93	18.66	19		
15	16QAM	36	0	17.53	17.70	17.70	17.80	17.61			
15	16QAM	36	20	17.50	17.65	17.61	17.78	17.55			
15	16QAM	36	39	17.47	17.49	17.57	17.65	17.57	19		
15	16QAM	75	0	17.49	17.43	17.53	17.78	17.61			
15	64QAM	1	0	17.70	17.74	17.72	17.75	17.82			
15	64QAM	1	37	17.71	17.72	17.64	17.65	17.68	19		
15	64QAM	1	74	17.67	17.62	17.54	17.70	17.60			
15	64QAM	36	0	17.47	17.53	17.56	17.69	17.66	18		
15	64QAM	36	20	17.53	17.58	17.41	17.62	17.52			
15	64QAM	36	39	17.47	17.43	17.63	17.70	17.55			
15	64QAM	75	0	17.44	17.49	17.44	17.52	17.40	15		
15	256QAM	1	0	14.56	14.52	14.52	14.37	14.26			
15	256QAM	1	37	14.29	14.25	14.43	14.44	14.62			
15	256QAM	1	74	14.53	14.45	14.34	14.26	14.28	15		
15	256QAM	36	0	13.31	13.24	13.59	13.43	13.38			
15	256QAM	36	20	13.44	13.28	13.54	13.48	13.50			
15	256QAM	36	39	13.35	13.52	13.34	13.29	13.24	15		
15	256QAM	75	0	13.35	13.35	13.46	13.15	13.27			
Channel				55290	55615	55990	56165	56690	Tune-up limit (dBm)		
Frequency (MHz)				3555	3607.5	3625	3642.5	3695			
10	QPSK	1	0	19.58	19.65	19.67	19.56	19.51	21		
10	QPSK	1	25	19.62	19.53	19.68	19.58	19.34			
10	QPSK	1	49	19.53	19.63	19.65	19.50	19.49			
10	QPSK	25	0	18.75	18.72	18.84	18.73	18.54	20		
10	QPSK	25	12	18.71	18.66	18.64	18.55	18.61			
10	QPSK	25	25	18.59	18.62	18.62	18.55	18.55			
10	QPSK	50	0	18.60	18.62	18.76	18.57	18.51	20		
10	16QAM	1	0	18.93	18.93	18.83	18.79	18.68			
10	16QAM	1	25	18.73	18.77	18.75	18.79	18.67			
10	16QAM	1	49	18.83	18.65	18.78	18.81	18.65	19		
10	16QAM	25	0	17.54	17.56	17.66	17.65	17.61			
10	16QAM	25	12	17.55	17.62	17.74	17.55	17.36			
10	16QAM	25	25	17.47	17.45	17.52	17.60	17.41	19		
10	16QAM	50	0	17.48	17.52	17.67	17.62	17.50			
10	64QAM	1	0	17.74	17.73	17.72	17.75	17.63			
10	64QAM	1	25	17.63	17.64	17.81	17.53	17.47	19		
10	64QAM	1	49	17.52	17.65	17.71	17.63	17.45			
10	64QAM	25	0	17.64	17.54	17.70	17.47	17.54			
10	64QAM	25	12	17.45	17.43	17.53	17.55	17.49	18		
10	64QAM	25	25	17.53	17.45	17.52	17.40	17.38			
10	64QAM	50	0	17.40	17.36	17.61	17.46	17.30			
10	256QAM	1	0	14.53	14.52	14.50	14.37	14.33	14		
10	256QAM	1	25	14.27	14.30	14.48	14.58	14.52			
10	256QAM	1	49	14.51	14.49	14.24	14.20	14.26			
10	256QAM	25	0	13.38	13.42	13.63	13.34	13.47	14		
10	256QAM	25	12	13.42	13.41	13.53	13.60	13.52			
10	256QAM	25	25	13.52	13.34	13.41	13.29	13.23			
10	256QAM	50	0	13.30	13.30	13.60	13.26	13.27			
Channel				55265	55610	55990	56170	56175	Tune-up limit (dBm)		
Frequency (MHz)				3552.5	3607	3625	3643	3697.5			
5	QPSK	1	0	19.63	19.62	19.65	19.59	19.51	21		
5	QPSK	1	12	19.54	19.60	19.59	19.50	19.42			
5	QPSK	1	24	19.52	19.52	19.53	19.51	19.42			
5	QPSK	12	0	18.82	18.83	18.73	18.68	18.69	20		
5	QPSK	12	7	18.73	18.55	18.82	18.60	18.42			
5	QPSK	12	13	18.54	18.70	18.72	18.58	18.39			
5	QPSK	25	0	18.62	18.59	18.59	18.59	18.39	20		
5	16QAM	1	0	18.85	18.92	18.84	18.73	18.76			

5	16QAM	1	12	18.77	18.89	18.80	18.66	18.58	20
5	16QAM	1	24	18.81	18.71	18.83	18.78	18.53	
5	16QAM	12	0	17.64	17.52	17.68	17.62	17.59	
5	16QAM	12	7	17.59	17.54	17.61	17.49	17.44	19
5	16QAM	12	13	17.45	17.56	17.69	17.50	17.40	
5	16QAM	25	0	17.60	17.45	17.59	17.59	17.46	
5	64QAM	1	0	17.79	17.66	17.74	17.67	17.61	
5	64QAM	1	12	17.65	17.63	17.69	17.61	17.46	19
5	64QAM	1	24	17.60	17.56	17.67	17.63	17.53	
5	64QAM	12	0	17.56	17.62	17.62	17.48	17.39	
5	64QAM	12	7	17.41	17.42	17.44	17.49	17.56	18
5	64QAM	12	13	17.63	17.62	17.49	17.59	17.46	
5	64QAM	25	0	17.55	17.42	17.44	17.42	17.37	
5	256QAM	1	0	14.59	14.56	14.52	14.31	14.40	
5	256QAM	1	12	14.36	14.29	14.43	14.47	14.59	18
5	256QAM	1	24	14.47	14.50	14.40	14.34	14.20	
5	256QAM	12	0	13.41	13.41	13.54	13.38	13.50	
5	256QAM	12	7	13.37	13.40	13.55	13.56	13.61	15
5	256QAM	12	13	13.33	13.41	13.33	13.29	13.29	
5	256QAM	25	0	13.30	13.27	13.56	13.28	13.32	

n2 (PC3)_Ant 0							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				372000	376000	380000	(dBm)
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	21.89	21.70	21.27	22.50
20		1	53	21.85	21.50	21.57	
20		1	104	21.74	21.37	21.55	
20		50	1	21.64	21.57	21.80	22.50
20		50	25	21.94	21.60	21.86	
20		50	50	21.74	21.59	21.60	
20		100	0	21.69	21.72	21.73	
20	DFT-s-OFDM QPSK	1	1	22.30	22.35	22.26	23.50
20		1	53	22.20	22.17	22.14	
20		1	104	22.09	22.07	22.02	
20		50	1	21.90	21.95	21.84	22.50
20		50	25	21.79	21.59	21.74	
20		50	50	21.58	21.45	21.29	
20		100	0	21.50	21.59	21.46	
20	DFT-s-OFDM 16QAM	1	1	20.86	20.65	20.26	21.00
20	DFT-s-OFDM 64QAM	1	1	19.44	19.17	18.78	20.00
20	DFT-s-OFDM 256QAM	1	1	17.21	17.00	16.59	17.50
20	CP-OFDM QPSK	1	1	20.44	20.17	19.76	20.00
20	CP-OFDM 16QAM	1	1	19.86	19.63	19.21	21.50
20	CP-OFDM 64QAM	1	1	18.26	17.93	17.59	19.00
20	CP-OFDM 256QAM	1	1	15.22	14.96	14.59	15.50
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	22.16	21.60	21.41	22.50
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	21.71	21.68	20.99	22.50
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	21.96	21.39	20.83	22.50

n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				166800	167300	167800	(dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.40	19.38	19.45	20.50
20		1	53	19.44	19.43	19.38	
20		1	104	19.30	19.26	19.25	
20		50	1	19.19	19.12	19.23	19.50
20	DFT-s-OFDM QPSK	50	25	19.50	19.51	19.52	
20		50	50	19.21	19.17	19.13	
20		100	0	19.23	19.22	19.22	
20	DFT-s-OFDM 16QAM	1	1	19.47	19.59	19.44	20.50
20		1	53	19.40	19.45	19.42	
20		1	104	19.32	19.30	19.22	
20		50	1	18.67	18.66	18.65	19.50
20	DFT-s-OFDM 64QAM	50	25	18.23	18.35	18.46	
20		50	50	18.35	18.27	18.23	
20		100	0	18.28	18.44	18.32	
20	DFT-s-OFDM 256QAM	1	1	18.62	18.66	18.67	19.50
20	CP-OFDM QPSK	1	1	17.02	17.13	17.13	17.50
20	CP-OFDM 16QAM	1	1	14.89	14.93	14.96	15.50
20	CP-OFDM 64QAM	1	1	18.12	18.21	18.13	18.50
20	CP-OFDM 256QAM	1	1	17.52	17.62	17.62	18.00
20		1	1	15.69	15.79	15.76	16.50
20		1	1	12.90	13.01	12.99	14.00
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.40	19.45	19.45	20.50
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.18	19.29	19.27	20.50
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.24	19.32	19.26	20.50

n66 (PC3)_Ant 0							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	21.63	21.64	21.52	22.50
30		1	80	21.69	21.60	21.52	
30		1	158	21.51	21.40	21.46	
30		80	1	21.25	21.15	21.01	22.50
30		80	40	21.77	21.67	21.57	
30		80	80	21.25	21.12	21.08	
30		160	0	21.31	21.19	21.09	
30	DFT-s-OFDM QPSK	1	1	22.07	22.09	22.05	23.00
30		1	80	21.72	21.69	21.61	
30		1	158	21.57	21.50	21.60	
30		80	1	20.71	20.75	20.69	22.00
30		80	40	20.53	20.56	20.58	
30		80	80	20.70	20.65	20.63	
30		160	0	20.60	20.65	20.52	
30	DFT-s-OFDM 16QAM	1	1	20.58	20.63	20.50	21.50
30	DFT-s-OFDM 64QAM	1	1	19.12	19.12	18.96	20.00
30	DFT-s-OFDM 256QAM	1	1	16.93	16.92	16.79	17.50
30	CP-OFDM QPSK	1	1	20.11	20.19	20.10	21.00
30	CP-OFDM 16QAM	1	1	19.50	19.54	19.42	20.50
30	CP-OFDM 64QAM	1	1	17.81	17.81	17.65	18.50
30	CP-OFDM 256QAM	1	1	14.95	14.99	14.85	15.50
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	21.92	21.88	21.91	22.50
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	21.78	21.76	21.70	22.50
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	21.90	21.97	21.56	22.50
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	21.88	22.01	21.44	22.50

n66 (PC3)_Ant 1							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	21.13	21.14	21.02	22.00
30		1	80	21.19	21.10	21.02	
30		1	158	21.01	20.90	20.96	
30		80	1	20.75	20.65	20.51	22.00
30		80	40	21.27	21.17	21.07	
30		80	80	20.75	20.62	20.58	
30		160	0	20.81	20.69	20.59	
30	DFT-s-OFDM QPSK	1	1	21.57	21.59	21.55	22.50
30		1	80	21.22	21.19	21.11	
30		1	158	21.07	21.00	21.10	
30		80	1	20.21	20.25	20.19	21.00
30		80	40	20.03	20.06	20.08	
30		80	80	20.20	20.15	20.13	
30		160	0	20.10	20.15	20.02	
30	DFT-s-OFDM 16QAM	1	1	20.08	20.13	20.00	19.50
30	DFT-s-OFDM 64QAM	1	1	18.62	18.62	18.46	19.50
30	DFT-s-OFDM 256QAM	1	1	16.43	16.42	16.29	17.00
30	CP-OFDM QPSK	1	1	19.61	19.69	19.60	20.50
30	CP-OFDM 16QAM	1	1	19.00	19.04	18.92	20.00
30	CP-OFDM 64QAM	1	1	17.31	17.31	17.15	18.00
30	CP-OFDM 256QAM	1	1	14.45	14.49	14.35	15.00
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	21.42	21.38	21.41	22.00
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	21.28	21.26	21.20	22.00
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	21.40	21.47	21.06	22.00
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	21.38	21.51	20.94	22.00

n77(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			12.25			13.00
100		1	136			12.00			
100		1	271			11.93			
100		135	1			11.66			12.50
100		135	67			12.16			
100		135	136			11.24			
100		270	0			11.61			
100	DFT-s-OFDM QPSK	1	1			12.77			13.50
100		1	136			12.07			
100		1	271			11.97			
100		135	1			12.13			12.50
100		135	67			11.16			
100		135	136			10.72			
100		270	0			11.11			
100	DFT-s-OFDM 16QAM	1	1			11.19			12.00
100	DFT-s-OFDM 64QAM	1	1			9.85			10.50
100	DFT-s-OFDM 256QAM	1	1			7.56			8.50
100	CP-OFDM QPSK	1	1			10.69			11.50
100	CP-OFDM 16QAM	1	1			10.21			11.00
100	CP-OFDM 64QAM	1	1			8.39			9.00
100	CP-OFDM 256QAM	1	1			5.63			6.00
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	12.20	12.25	12.25	12.17	12.13	13.00
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	12.36	12.36	12.32	12.20	12.19	13.00
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.09	12.62	12.52	12.46	12.13	13.00
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.62	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	12.63	12.55	12.44	12.27	11.89	13.00
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	12.51	12.43	12.34	12.04	11.69	13.00

n77(3450-3550MHz) (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						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			12.05			13.00
100		1	136			11.76			
100		1	271			11.23			
100		135	1			12.09			13.00
100		135	67			11.84			
100		135	136			11.21			
100		270	0			11.82			
100	DFT-s-OFDM QPSK	1	1			12.41			13.50
100		1	136			11.83			
100		1	271			11.71			
100		135	1			11.95			12.50
100		135	67			11.84			
100		135	136			11.19			
100		270	0			11.84			
100	DFT-s-OFDM 16QAM	1	1			12.17			13.00
100	DFT-s-OFDM 64QAM	1	1			12.29			13.00
100	DFT-s-OFDM 256QAM	1	1			10.61			11.50
100	CP-OFDM QPSK	1	1			12.32			13.50
100	CP-OFDM 16QAM	1	1			12.37			13.50
100	CP-OFDM 64QAM	1	1			11.43			12.50
100	CP-OFDM 256QAM	1	1			8.62			9.50
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	12.30	12.30	12.19	12.12	12.09	13.00
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.94	11.90	11.84	11.74	12.19	13.00
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.12	12.04	12.03	11.97	11.72	13.00
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	12.13	12.02	11.98	11.84	11.45	13.00
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	12.07	11.98	11.97	11.68	11.36	13.00

n77(3700-3980MHz) (PC2)_Ant 2									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	High Channel	High Channel	Tune-up
Channel				650000	653000	656000	659000	662000	limit
Frequency (MHz)				3750	3795	3840	3885	3930	(dBm)
100	DFT-s-OFDM PI/2 BPSK	1	1	10.26	10.51	10.28	10.50	10.85	11.50
100		1	136	10.47	10.42	10.53	10.64	10.39	
100		1	271	10.32	10.64	10.62	10.21	10.82	
100		135	1	10.17	9.92	9.84	9.88	10.20	11.00
100		135	67	10.51	10.48	10.61	10.67	10.55	
100		135	136	9.79	9.81	9.83	9.88	10.17	
100		270	0	9.93	10.04	10.17	10.15	10.18	
100	DFT-s-OFDM QPSK	1	1	10.22	10.50	11.23	10.51	10.34	12.00
100		1	136	10.50	10.38	10.63	10.88	10.42	
100		1	271	10.40	10.59	9.37	10.37	10.86	
100		135	1	9.69	9.44	10.64	9.81	9.73	12.00
100		135	67	10.51	10.44	11.00	10.64	10.52	
100		135	136	9.28	9.29	9.38	9.61	9.64	
100		270	0	9.41	9.44	9.67	9.98	9.71	
100	DFT-s-OFDM 16QAM	1	1	9.08	9.41	9.23	9.80	9.83	11.00
100	DFT-s-OFDM 64QAM	1	1	7.70	8.06	7.89	8.46	8.42	9.50
100	DFT-s-OFDM 256QAM	1	1	5.47	5.75	5.66	6.16	6.15	7.00
100	CP-OFDM QPSK	1	1	8.71	9.06	8.84	9.44	9.35	10.50
100	CP-OFDM 16QAM	1	1	8.27	8.53	8.37	8.97	8.88	10.00
100	CP-OFDM 64QAM	1	1	6.38	6.62	6.46	7.10	7.02	8.00
100	CP-OFDM 256QAM	1	1	3.53	3.80	3.67	4.24	4.14	5.00
Channel				649334	652668	656000	659332	662666	Tune-up
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	limit
80	DFT-s-OFDM QPSK	1	1	10.27	10.64	10.45	10.51	10.47	11.50
Channel				648668	652334	656000	659666	663332	Tune-up
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	limit
60	DFT-s-OFDM QPSK	1	1	10.45	10.66	10.47	10.65	10.34	11.50
Channel				648000	652000	656000	660000	664000	Tune-up
Frequency (MHz)				3720	3780	3840	3900	3960	limit
40	DFT-s-OFDM QPSK	1	1	10.50	10.67	10.55	10.73	10.42	11.50
Channel				647668	651834	656000	660166	664332	Tune-up
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	limit
30	DFT-s-OFDM QPSK	1	1	10.20	10.42	10.43	10.71	10.28	11.50
Channel				647334	651668	656000	660332	664666	Tune-up
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	limit
20	DFT-s-OFDM QPSK	1	1	10.30	10.58	10.58	10.70	10.47	11.50

n77(3700-3980MHz) (PC3)_Ant 2									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	High Channel	High Channel	Tune-up
Channel				650000	653000	656000	659000	662000	limit
Frequency (MHz)				3750	3795	3840	3885	3930	(dBm)
100	DFT-s-OFDM PI/2 BPSK	1	1	10.82	10.90	10.80	10.94	10.57	12.00
100		1	136	10.89	10.84	10.97	10.57	10.15	
100		1	271	10.80	10.93	10.51	10.19	10.99	
100		135	1	11.23	10.78	10.75	10.64	10.32	12.00
100		135	67	10.99	10.92	11.06	10.71	10.17	
100		135	136	10.67	10.71	10.55	10.27	10.53	
100	DFT-s-OFDM QPSK	270	0	10.94	10.94	11.01	10.76	10.32	12.50
100		1	1	11.40	11.44	11.48	11.30	11.47	
100		1	136	11.22	11.18	10.94	11.20	11.13	
100		1	271	11.06	11.00	10.82	11.06	11.06	11.50
100		135	1	10.89	10.93	10.96	10.91	10.87	
100		135	67	10.86	10.82	10.85	10.79	10.85	
100	DFT-s-OFDM 16QAM	135	136	10.67	10.71	10.55	10.76	10.54	11.50
100		270	0	10.85	10.84	10.75	10.80	10.88	
100		1	1	10.78	10.83	10.80	10.85	10.55	
100		1	1	10.81	10.83	10.88	10.95	10.56	
100	DFT-s-OFDM 64QAM	1	1	9.16	9.15	9.15	9.29	8.89	10.00
100	DFT-s-OFDM 256QAM	1	1	10.86	10.85	10.84	11.01	10.60	12.00
100	CP-OFDM QPSK	1	1	10.89	10.88	10.85	11.04	10.61	12.00
100	CP-OFDM 16QAM	1	1	10.00	9.98	9.98	10.08	9.73	11.00
100	CP-OFDM 64QAM	1	1	7.20	7.16	7.15	7.27	6.91	8.00
100	CP-OFDM 256QAM	1	1	649334	652668	656000	659332	662666	Tune-up
Channel				3740.01	3790.02	3840	3889.98	3939.99	limit
80	DFT-s-OFDM QPSK	1	1	10.86	10.89	10.77	10.79	10.33	12.00
Channel				648668	652334	656000	659666	663332	Tune-up
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	limit
60	DFT-s-OFDM QPSK	1	1	10.89	10.96	10.88	10.67	10.02	12.00
Channel				648000	652000	656000	660000	664000	Tune-up
Frequency (MHz)				3720	3780	3840	3900	3960	limit
40	DFT-s-OFDM QPSK	1	1	11.24	11.35	11.26	11.04	10.71	12.00
Channel				647668	651834	656000	660166	664332	Tune-up
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	limit
30	DFT-s-OFDM QPSK	1	1	11.28	11.25	11.19	10.89	10.80	12.00
Channel				647334	651668	656000	660332	664666	Tune-up
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	limit
20	DFT-s-OFDM QPSK	1	1	11.18	11.18	11.23	10.66	10.91	12.00

n77(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			17.62			18.50
100		1	136			17.37			
100		1	271			17.30			
100		135	1			17.03			18.50
100	DFT-s-OFDM QPSK	135	67			17.53			
100		135	136			16.61			
100		270	0			16.98			
100		1	1			18.14			19.00
100	DFT-s-OFDM QPSK	1	136			17.44			
100		1	271			17.34			
100		135	1			17.50			18.50
100		135	67			16.53			
100	DFT-s-OFDM 16QAM	135	136			16.09			
100		270	0			16.48			
100	DFT-s-OFDM 16QAM	1	1			16.56			17.50
100	DFT-s-OFDM 64QAM	1	1			15.22			17.00
100	DFT-s-OFDM 256QAM	1	1			12.93			14.00
100	CP-OFDM QPSK	1	1			16.06			17.00
100	CP-OFDM 16QAM	1	1			15.58			16.50
100	CP-OFDM 64QAM	1	1			13.76			14.50
100	CP-OFDM 256QAM	1	1			11.00			12.00
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	17.67	17.72	17.72	17.64	17.60	18.50
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.83	17.83	17.79	17.67	17.66	18.50
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.06	17.59	17.49	17.43	17.10	18.50
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	17.60	17.52	17.41	17.24	16.86	18.50
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	17.48	17.40	17.31	17.01	16.66	18.50

n77(3450-3550MHz) (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						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			17.82			18.50
100		1	136			17.53			
100		1	271			17.00			
100		135	1			17.86			18.50
100	DFT-s-OFDM QPSK	135	67			17.61			
100		135	136			16.98			
100		270	0			17.59			
100		1	1			18.18			19.00
100	DFT-s-OFDM 16QAM	1	136			17.96			
100		1	271			17.99			
100		135	1			17.72			18.50
100		135	67			17.61			
100	DFT-s-OFDM 64QAM	135	136			16.96			
100		270	0			17.61			
100	DFT-s-OFDM 256QAM	1	1			17.94			18.50
100	DFT-s-OFDM 64QAM	1	1			18.06			18.50
100	DFT-s-OFDM 256QAM	1	1			16.38			18.00
100	CP-OFDM QPSK	1	1			18.09			19.00
100	CP-OFDM 16QAM	1	1			18.14			19.00
100	CP-OFDM 64QAM	1	1			17.20			18.00
100	CP-OFDM 256QAM	1	1			14.39			15.50
Channel				632668	633000	633334	633666	634000	Tune-up limit
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	18.30	18.30	18.19	18.12	18.09	18.50
Channel				632000	632668	633334	634000	634666	Tune-up limit
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.94	17.90	17.84	17.74	18.19	18.50
Channel				631334	632334	633334	634332	635332	Tune-up limit
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	18.12	18.04	18.03	17.97	17.72	18.50
Channel				631000	632168	633334	634500	635666	Tune-up limit
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	18.13	18.02	17.98	17.84	17.45	18.50
Channel				630668	632000	633334	634666	636000	Tune-up limit
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	18.07	17.98	17.97	17.68	17.36	18.50

n77(3700-3980MHz) (PC2)_Ant 3									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up
Channel				650000	653000	656000	659000	662000	limit
Frequency (MHz)				3750	3795	3840	3885	3930	(dBm)
100	DFT-s-OFDM PI/2 BPSK	1	1	15.23	15.48	15.25	15.47	15.82	16.50
100		1	136	15.44	15.39	15.50	15.61	15.36	
100		1	271	15.29	15.61	15.59	15.18	15.79	
100		135	1	15.14	14.89	14.81	14.85	15.17	16.50
100		135	67	15.48	15.45	15.58	15.64	15.52	
100		135	136	14.76	14.78	14.80	14.85	15.14	
100		270	0	14.90	15.01	15.14	15.12	15.15	
100	DFT-s-OFDM QPSK	1	1	16.17	16.10	16.20	16.15	16.17	17.00
100		1	136	16.03	15.35	14.57	15.85	15.39	
100		1	271	15.37	15.56	14.41	15.34	15.83	
100		135	1	15.48	15.41	15.67	15.97	15.49	16.50
100		135	67	14.49	14.58	14.68	14.67	14.79	
100		135	136	14.25	14.26	14.35	14.58	14.61	
100		270	0	14.38	14.41	14.42	14.95	14.68	
100	DFT-s-OFDM 16QAM	1	1	14.05	14.38	14.20	14.77	14.80	15.50
100	DFT-s-OFDM 64QAM	1	1	12.67	13.03	12.86	13.43	13.39	14.00
100	DFT-s-OFDM 256QAM	1	1	10.44	10.72	10.63	11.13	11.12	12.00
100	CP-OFDM QPSK	1	1	13.68	14.03	13.81	14.41	14.32	15.50
100	CP-OFDM 16QAM	1	1	13.24	13.50	13.34	13.94	13.85	15.00
100	CP-OFDM 64QAM	1	1	11.35	11.59	11.43	12.07	11.99	13.00
100	CP-OFDM 256QAM	1	1	8.50	8.77	8.64	9.21	9.11	10.00
Channel				649334	652668	656000	659332	662666	Tune-up
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	limit
80	DFT-s-OFDM QPSK	1	1	15.24	15.61	15.42	15.48	15.44	16.50
Channel				648668	652334	656000	659666	663332	Tune-up
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	limit
60	DFT-s-OFDM QPSK	1	1	15.42	15.63	15.44	15.62	15.31	16.50
Channel				648000	652000	656000	660000	664000	Tune-up
Frequency (MHz)				3720	3780	3840	3900	3960	limit
40	DFT-s-OFDM QPSK	1	1	15.47	15.64	15.52	15.70	15.39	16.50
Channel				647668	651834	656000	660166	664332	Tune-up
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	limit
30	DFT-s-OFDM QPSK	1	1	15.17	15.39	15.40	15.68	15.25	16.50
Channel				647334	651668	656000	660332	664666	Tune-up
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	limit
20	DFT-s-OFDM QPSK	1	1	15.27	15.55	15.55	15.67	15.44	16.50

n77(3700-3980MHz) (PC3)_Ant 3									
BW [MHz]	Modulation	RB num	RB start	Low Channel	Low/Middle Channel	Middle Channel	High Channel	High Channel	Tune-up
Channel				650000	653000	656000	659000	662000	limit
Frequency (MHz)				3750	3795	3840	3885	3930	(dBm)
100	DFT-s-OFDM PI/2 BPSK	1	1	15.29	15.37	15.27	15.41	15.04	16.50
100		1	136	15.36	15.31	15.44	15.04	14.62	
100		1	271	15.27	15.40	14.98	14.66	15.46	
100		135	1	15.70	15.25	15.22	15.11	14.79	16.50
100		135	67	15.46	15.39	15.53	15.18	14.64	
100		135	136	15.14	15.18	15.02	14.74	15.00	
100	DFT-s-OFDM QPSK	270	0	15.41	15.41	15.48	15.23	14.79	17.00
100		1	1	15.87	15.91	15.95	15.77	15.94	
100		1	136	15.69	15.65	15.27	15.67	15.60	
100		1	271	15.53	15.47	15.26	15.53	15.53	16.50
100		135	1	15.36	15.40	15.43	15.38	15.34	
100		135	67	15.33	15.29	15.32	15.26	15.32	
100	DFT-s-OFDM 16QAM	135	136	15.14	15.18	15.02	15.23	15.01	16.50
100		270	0	15.32	15.31	15.22	15.27	15.35	
100		1	1	15.25	15.30	15.27	15.32	15.02	
100		1	1	15.28	15.30	15.35	15.42	15.03	
100	DFT-s-OFDM 64QAM	1	1	15.28	15.30	15.35	15.42	15.03	16.50
100	DFT-s-OFDM 256QAM	1	1	13.63	13.62	13.62	13.76	13.36	14.50
100	CP-OFDM QPSK	1	1	15.33	15.32	15.31	15.48	15.07	16.50
100	CP-OFDM 16QAM	1	1	15.36	15.35	15.32	15.51	15.08	16.50
100	CP-OFDM 64QAM	1	1	14.47	14.45	14.45	14.55	14.20	15.50
100	CP-OFDM 256QAM	1	1	11.67	11.63	11.62	11.74	11.38	12.50
Channel				649334	652668	656000	659332	662666	Tune-up
Frequency (MHz)				3740.01	3790.02	3840	3889.98	3939.99	limit
80	DFT-s-OFDM QPSK	1	1	15.33	15.36	15.24	15.26	14.80	16.50
Channel				648668	652334	656000	659666	663332	Tune-up
Frequency (MHz)				3730.02	3785.01	3840	3894.99	3949.98	limit
60	DFT-s-OFDM QPSK	1	1	15.36	15.43	15.35	15.14	14.49	16.50
Channel				648000	652000	656000	660000	664000	Tune-up
Frequency (MHz)				3720	3780	3840	3900	3960	limit
40	DFT-s-OFDM QPSK	1	1	15.71	15.82	15.73	15.51	15.18	16.50
Channel				647668	651834	656000	660166	664332	Tune-up
Frequency (MHz)				3715.02	3777.51	3840	3902.49	3964.98	limit
30	DFT-s-OFDM QPSK	1	1	15.75	15.72	15.66	15.36	15.27	16.50
Channel				647334	651668	656000	660332	664666	Tune-up
Frequency (MHz)				3710.01	3775.02	3840	3904.98	3969.99	limit
20	DFT-s-OFDM QPSK	1	1	15.65	15.65	15.70	15.13	15.38	16.50

CA_48C_Ant 2											
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	15.21	16.00
55990	55891	56089	QPSK	1	0	0	0	1	0	15.26	16.00
56640	56442	56640	QPSK	1	0	0	0	1	0	15.17	16.00
55340	55340	55538	16QAM	1	0	0	0	1	0	15.15	16.00
55990	55891	56089	16QAM	1	0	0	0	1	0	15.21	16.00
56640	56442	56640	16QAM	1	0	0	0	1	0	15.13	16.00
55340	55340	55538	64QAM	1	0	0	0	1	0	15.09	16.00
55990	55891	56089	64QAM	1	0	0	0	1	0	15.10	16.00
56640	56442	56640	64QAM	1	0	0	0	1	0	15.07	16.00
55340	55340	55538	256QAM	1	0	0	0	1	0	14.74	15.50
55990	55891	56089	256QAM	1	0	0	0	1	0	14.72	15.50
56640	56442	56640	256QAM	1	0	0	0	1	0	14.79	15.50
55340	55340	55538	QPSK	50	0	0	0	1	0	13.74	14.50
55990	55891	56089	QPSK	50	0	0	0	1	0	13.81	14.50
56640	56442	56640	QPSK	50	0	0	0	1	0	13.76	14.50

CA_66B_Ant 0											
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	21.19	22.00
132322	132373	132472	QPSK	1	0	0	0	1	0	21.43	22.00
132572	132523	132622	QPSK	1	0	0	0	1	0	21.28	22.00
132072	132022	132121	16QAM	1	0	0	0	1	0	20.93	21.50
132322	132373	132472	16QAM	1	0	0	0	1	0	21.17	22.00
132572	132523	132622	16QAM	1	0	0	0	1	0	21.02	21.50
132072	132022	132121	64QAM	1	0	0	0	1	0	20.77	21.50
132322	132373	132472	64QAM	1	0	0	0	1	0	21.01	21.50
132572	132523	132622	64QAM	1	0	0	0	1	0	20.86	21.50
132072	132022	132121	256QAM	1	0	0	0	1	0	20.66	21.50
132322	132373	132472	256QAM	1	0	0	0	1	0	20.90	21.50
132572	132523	132622	256QAM	1	0	0	0	1	0	20.75	21.50
132072	132022	132121	QPSK	50	0	0	0	1	0	20.27	21.00
132322	132373	132472	QPSK	50	0	0	0	1	0	20.34	21.00
132572	132523	132622	QPSK	50	0	0	0	1	0	20.28	21.00

CA_66C_Ant 0											
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	21.05	22.00
132322	132323	132521	QPSK	1	0	0	0	1	0	21.09	22.00
132572	132374	132572	QPSK	1	0	0	0	1	0	21.14	22.00
132072	132072	132270	16QAM	1	0	0	0	1	0	20.93	22.00
132322	132323	132521	16QAM	1	0	0	0	1	0	20.96	22.00
132572	132374	132572	16QAM	1	0	0	0	1	0	21.03	22.00
132072	132072	132270	64QAM	1	0	0	0	1	0	20.84	22.00
132322	132323	132521	64QAM	1	0	0	0	1	0	20.87	22.00
132572	132374	132572	64QAM	1	0	0	0	1	0	20.94	22.00
132072	132072	132270	256QAM	1	0	0	0	1	0	20.76	22.00
132322	132323	132521	256QAM	1	0	0	0	1	0	20.79	22.00
132572	132374	132572	256QAM	1	0	0	0	1	0	20.86	22.00
132072	132072	132270	QPSK	50	0	0	0	1	0	20.01	21.00
132322	132323	132521	QPSK	50	0	0	0	1	0	20.05	21.00
132572	132374	132572	QPSK	50	0	0	0	1	0	20.13	21.00