



REPORT No.: SZ23110216S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

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

Full Power for ANT 1 & ANT 3 & ANT 4 & ANT 7 & ANT8 & ANT9 & ANT 10

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	31.70	31.71	31.63	32.70	22.70	22.71	22.63	23.70	0.15
GSM 1 Tx slot	31.74	31.78	31.68	32.70	22.74	22.78	22.68	23.70	
GPRS 2 Tx slots	29.41	29.43	29.35	30.00	23.41	23.43	23.35	24.00	0.08
GPRS 3 Tx slots	27.39	27.42	27.33	28.20	23.13	23.16	23.07	23.94	0.09
GPRS 4 Tx slots	26.02	26.05	25.97	27.00	23.02	23.05	22.97	24.00	0.08
EDGE 1 Tx slot	26.80	26.83	26.69	27.00	17.80	17.83	17.69	18.00	0.14
EDGE 2 Tx slots	24.44	24.48	24.31	25.00	18.44	18.48	18.31	19.00	0.17
EDGE 3 Tx slots	22.47	22.50	22.38	23.00	18.21	18.24	18.12	18.74	0.12
EDGE 4 Tx slots	20.71	20.73	20.66	21.50	17.71	17.73	17.66	18.50	0.07
Mode		Max.	31.78			Max.	23.43		
Attenuator	Cable Loss : 0.6								

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	29.43	29.22	29.41	30.50	20.43	20.22	20.41	21.50	0.23
GSM 1 Tx slot	29.39	29.20	29.40	30.50	20.39	20.20	20.40	21.50	
GPRS 2 Tx slots	27.81	28.13	28.20	29.00	21.81	22.13	22.20	23.00	0.39
GPRS 3 Tx slots	26.33	26.24	26.35	27.00	22.07	21.98	22.09	22.74	0.11
GPRS 4 Tx slots	25.31	25.16	25.33	26.00	22.31	22.16	22.33	23.00	0.17
EDGE 1 Tx slot	25.35	25.17	25.36	26.00	16.35	16.17	16.36	17.00	0.19
EDGE 2 Tx slots	24.16	24.09	24.23	25.00	18.16	18.09	18.23	19.00	0.14
EDGE 3 Tx slots	22.37	22.43	22.49	23.50	18.11	18.17	18.23	19.24	0.12
EDGE 4 Tx slots	21.41	21.36	21.47	22.50	18.41	18.36	18.47	19.50	0.11
Mode		Max.	29.43			Max.	22.33		
Attenuator	Cable Loss : 0.8								

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.09	23.15	23.10	23.80	23.31	23.35	23.29	23.80	24.52	24.56	24.47	25.30
3GPP Rel 5	HSDPA Subtest-1	22.15	22.08	22.10	23.00	22.21	22.33	22.18	23.00	23.37	23.38	23.35	24.00
3GPP Rel 5	HSDPA Subtest-2	22.17	22.06	22.06	23.00	22.17	22.27	22.26	23.00	23.39	23.47	23.42	24.00
3GPP Rel 5	HSDPA Subtest-3	21.61	21.50	21.60	22.50	21.67	21.79	21.76	22.50	22.94	22.96	22.88	23.50
3GPP Rel 5	HSDPA Subtest-4	21.60	21.60	21.57	22.50	21.69	21.85	21.71	22.50	22.92	22.92	22.73	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.52	21.55	21.52	22.50	21.69	21.82	21.78	22.50	23.36	23.35	23.34	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.48	21.46	21.54	22.50	21.58	21.79	21.71	22.50	23.32	23.35	23.33	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.08	20.93	20.94	22.00	21.08	21.17	21.20	22.00	22.84	22.86	22.82	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.97	20.95	20.93	22.00	20.99	21.21	21.08	22.00	22.85	22.85	22.84	23.50
3GPP Rel 6	HSUPA Subtest-1	22.12	22.12	22.12	23.00	22.12	22.29	22.26	23.00	23.43	23.41	23.43	24.00
3GPP Rel 6	HSUPA Subtest-2	21.72	21.61	21.58	22.50	21.67	21.78	21.73	22.50	22.91	22.81	22.87	23.50
3GPP Rel 6	HSUPA Subtest-3	22.08	22.06	22.17	23.00	22.12	22.27	22.19	23.00	23.31	23.40	23.42	24.00
3GPP Rel 6	HSUPA Subtest-4	22.12	22.08	22.11	23.00	22.19	22.31	22.25	23.00	23.37	23.38	23.35	24.00
3GPP Rel 6	HSUPA Subtest-5	22.15	22.17	22.00	23.00	22.14	22.29	22.24	23.00	23.36	23.39	23.33	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.61	21.58	21.61	22.50	21.68	21.78	21.73	22.50	23.37	23.38	23.32	24.00
Attenuator		Cable Loss		0.8		Cable Loss		0.8		Cable Loss		0.6	
Mode			Max.	23.15			Max.	23.35			Max.	24.56	

Band 2 (1900MHz Band) (dBm)							
Part 24F							
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	22.85	22.89	22.82	
20	QPSK	1	49	22.86	22.80	22.66	23.8
20	QPSK	1	99	22.71	22.76	22.75	
20	QPSK	50	0	21.74	21.84	21.76	
20	QPSK	50	24	21.71	21.69	21.75	22.8
20	QPSK	50	50	21.64	21.64	21.65	
20	QPSK	100	0	21.67	21.69	21.64	
20	16QAM	1	0	21.87	22.03	21.92	22.8
20	16QAM	1	49	22.00	22.01	21.80	
20	16QAM	1	99	21.89	21.98	21.96	
20	16QAM	50	0	20.78	20.82	20.65	21.8
20	16QAM	50	24	20.62	20.77	20.66	
20	16QAM	50	50	20.70	20.67	20.79	
20	16QAM	100	0	20.54	20.68	20.72	21.8
20	64QAM	1	0	20.72	20.97	20.89	
20	64QAM	1	49	20.69	20.62	20.86	
20	64QAM	1	99	20.81	20.82	20.90	20.8
20	64QAM	50	0	19.78	19.85	19.77	
20	64QAM	50	24	19.66	19.72	19.60	
20	64QAM	50	50	19.75	19.62	19.65	20.8
20	64QAM	100	0	19.69	19.81	19.76	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.78	22.86	22.80	
15	QPSK	1	37	22.74	22.85	22.71	23.8
15	QPSK	1	74	22.61	22.80	22.70	
15	QPSK	36	0	21.72	21.95	21.84	
15	QPSK	36	20	21.72	21.68	21.65	22.8
15	QPSK	36	39	21.64	21.63	21.63	
15	QPSK	75	0	21.55	21.74	21.82	
15	16QAM	1	0	22.02	22.03	21.97	22.8
15	16QAM	1	37	21.95	22.00	21.92	
15	16QAM	1	74	21.77	21.95	21.81	
15	16QAM	36	0	20.90	20.92	20.77	21.8
15	16QAM	36	20	20.83	20.71	20.63	
15	16QAM	36	39	20.69	20.77	20.82	
15	16QAM	75	0	20.59	20.71	20.71	21.8
15	64QAM	1	0	20.80	20.87	20.86	
15	64QAM	1	37	20.66	20.82	20.97	
15	64QAM	1	74	20.78	20.74	20.86	20.8
15	64QAM	36	0	19.76	19.90	19.67	
15	64QAM	36	20	19.57	19.88	19.67	
15	64QAM	36	39	19.71	19.60	19.65	20.8
15	64QAM	75	0	19.54	19.64	19.66	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.75	22.84	22.81	
10	QPSK	1	25	22.82	22.74	22.64	23.8
10	QPSK	1	49	22.75	22.75	22.60	
10	QPSK	25	0	21.76	21.85	21.79	
10	QPSK	25	12	21.72	21.79	21.78	22.8
10	QPSK	25	25	21.67	21.67	21.73	
10	QPSK	50	0	21.75	21.65	21.68	
10	16QAM	1	0	21.92	21.98	21.96	22.8
10	16QAM	1	25	21.91	21.96	21.95	
10	16QAM	1	49	21.73	21.86	21.94	
10	16QAM	25	0	20.77	20.91	20.69	21.8
10	16QAM	25	12	20.78	20.70	20.77	
10	16QAM	25	25	20.55	20.73	20.79	
10	16QAM	50	0	20.63	20.77	20.67	21.8
10	64QAM	1	0	20.71	20.95	20.77	
10	64QAM	1	25	20.79	20.75	20.86	
10	64QAM	1	49	20.68	20.60	20.90	20.8
10	64QAM	25	0	19.69	19.86	19.75	
10	64QAM	25	12	19.55	19.72	19.60	
10	64QAM	25	25	19.76	19.54	19.53	20.8
10	64QAM	50	0	19.66	19.86	19.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.75	22.82	22.77	
5	QPSK	1	12	22.75	22.60	22.63	23.8
5	QPSK	1	24	22.54	22.68	22.81	
5	QPSK	12	0	21.68	21.85	21.78	
5	QPSK	12	7	21.79	21.72	21.67	22.8
5	QPSK	12	13	21.65	21.65	21.58	
5	QPSK	25	0	21.60	21.60	21.64	
5	16QAM	1	0	21.82	21.96	21.87	22.8
5	16QAM	1	12	21.92	21.92	21.86	
5	16QAM	1	24	21.96	21.87	21.95	
5	16QAM	12	0	20.76	20.83	20.55	21.8
5	16QAM	12	7	20.60	20.63	20.65	
5	16QAM	12	13	20.59	20.79	20.73	
5	16QAM	25	0	20.44	20.67	20.63	21.8
5	64QAM	1	0	20.78	20.89	20.74	
5	64QAM	1	12	20.82	20.84	20.88	
5	64QAM	1	24	20.82	20.70	20.82	20.8
5	64QAM	12	0	19.69	19.87	19.88	
5	64QAM	12	7	19.70	19.77	19.71	
5	64QAM	12	13	19.70	19.57	19.70	20.8
5	64QAM	25	0	19.57	19.86	19.68	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.69	22.79	22.75	
3	QPSK	1	8	22.77	22.74	22.73	23.8
3	QPSK	1	14	22.64	22.76	22.65	
3	QPSK	8	0	21.72	21.78	21.69	
3	QPSK	8	4	21.74	21.56	21.57	22.8
3	QPSK	8	7	21.68	21.70	21.67	
3	QPSK	15	0	21.72	21.77	21.67	
3	16QAM	1	0	21.88	21.95	21.93	

Band 4 (AWS Band) (dBm)							
Part 27I (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	22.76	22.83	22.80	
20	QPSK	1	49	22.78	22.60	22.72	23.8
20	QPSK	1	99	22.69	22.75	22.67	
20	QPSK	50	0	21.74	21.84	21.72	
20	QPSK	50	24	21.80	21.66	21.74	22.8
20	QPSK	50	50	21.62	21.79	21.68	
20	QPSK	100	0	21.70	21.72	21.66	
20	16QAM	1	0	21.90	21.95	21.93	22.8
20	16QAM	1	49	21.90	21.90	21.87	
20	16QAM	1	99	21.89	21.88	21.84	
20	16QAM	50	0	20.72	20.87	20.70	21.8
20	16QAM	50	24	20.79	20.61	20.66	
20	16QAM	50	50	20.70	20.69	20.63	
20	16QAM	100	0	20.56	20.79	20.51	21.8
20	64QAM	1	0	20.88	21.05	20.93	
20	64QAM	1	49	20.68	20.83	20.80	
20	64QAM	1	99	20.72	20.72	20.73	20.8
20	64QAM	50	0	19.65	19.85	19.72	
20	64QAM	50	24	19.58	19.80	19.61	
20	64QAM	50	50	19.51	19.73	19.57	20.8
20	64QAM	100	0	19.70	19.79	19.64	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.72	22.79	22.73	
15	QPSK	1	37	22.75	22.75	22.70	23.8
15	QPSK	1	74	22.73	22.66	22.74	
15	QPSK	36	0	21.71	21.81	21.76	
15	QPSK	36	20	21.73	21.66	21.63	22.8
15	QPSK	36	39	21.65	21.68	21.70	
15	QPSK	75	0	21.77	21.71	21.75	
15	16QAM	1	0	21.83	22.08	21.92	22.8
15	16QAM	1	37	21.96	22.03	21.74	
15	16QAM	1	74	21.98	21.93	21.94	
15	16QAM	36	0	20.74	20.88	20.80	21.8
15	16QAM	36	20	20.66	20.70	20.61	
15	16QAM	36	39	20.56	20.66	20.66	
15	16QAM	75	0	20.61	20.86	20.65	21.8
15	64QAM	1	0	20.72	21.00	20.86	
15	64QAM	1	37	20.76	20.85	20.78	
15	64QAM	1	74	20.83	20.69	20.72	20.8
15	64QAM	36	0	19.88	19.91	19.82	
15	64QAM	36	20	19.79	19.83	19.77	
15	64QAM	36	39	19.70	19.66	19.66	20.8
15	64QAM	75	0	19.71	19.67	19.76	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.77	22.80	22.73	
10	QPSK	1	25	22.71	22.60	22.69	23.8
10	QPSK	1	49	22.59	22.68	22.57	
10	QPSK	25	0	21.74	21.86	21.82	
10	QPSK	25	12	21.72	21.73	21.55	22.8
10	QPSK	25	25	21.75	21.74	21.58	
10	QPSK	50	0	21.68	21.73	21.78	
10	16QAM	1	0	21.86	22.08	21.96	22.8
10	16QAM	1	25	22.04	21.91	21.84	
10	16QAM	1	49	21.79	21.87	21.92	
10	16QAM	25	0	20.84	20.89	20.73	21.8
10	16QAM	25	12	20.80	20.68	20.72	
10	16QAM	25	25	20.70	20.55	20.68	
10	16QAM	50	0	20.63	20.87	20.72	21.8
10	64QAM	1	0	20.82	21.03	20.83	
10	64QAM	1	25	20.76	20.77	20.97	
10	64QAM	1	49	20.70	20.85	20.78	20.8
10	64QAM	25	0	19.78	19.80	19.71	
10	64QAM	25	12	19.54	19.80	19.52	
10	64QAM	25	25	19.66	19.54	19.54	20.8
10	64QAM	50	0	19.72	19.70	19.61	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.73	22.76	22.74	
5	QPSK	1	12	22.68	22.70	22.73	23.8
5	QPSK	1	24	22.75	22.69	22.57	
5	QPSK	12	0	21.80	21.82	21.77	
5	QPSK	12	7	21.75	21.57	21.55	22.8
5	QPSK	12	13	21.68	21.77	21.63	
5	QPSK	25	0	21.54	21.80	21.75	
5	16QAM	1	0	21.91	21.98	21.88	22.8
5	16QAM	1	12	21.88	21.92	21.79	
5	16QAM	1	24	21.88	21.85	21.82	
5	16QAM	12	0	20.74	20.85	20.64	21.8
5	16QAM	12	7	20.81	20.64	20.63	
5	16QAM	12	13	20.72	20.63	20.75	
5	16QAM	25	0	20.60	20.72	20.63	21.8
5	64QAM	1	0	20.76	20.95	20.78	
5	64QAM	1	12	20.63	20.62	20.91	
5	64QAM	1	24	20.79	20.83	20.74	20.8
5	64QAM	12	0	19.66	19.86	19.72	
5	64QAM	12	7	19.72	19.84	19.69	
5	64QAM	12	13	19.54	19.54	19.50	20.8
5	64QAM	25	0	19.53	19.82	19.73	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.68	22.77	22.73	
3	QPSK	1	8	22.65	22.69	22.72	23.8
3	QPSK	1	14	22.73	22.68	22.66	
3	QPSK	8	0	21.78	21.82	21.75	
3	QPSK	8	4	21.72	21.76	21.61	22.8
3	QPSK	8	7	21.69	21.77	21.54	
3	QPSK	15	0	21.56	21.79	21.82	
3	16QAM	1	0	21.80	22.00	21.95	



3	16QAM	1	8	21.98	21.92	21.97	22.8
3	16QAM	1	14	21.77	21.88	21.86	
3	16QAM	8	0	20.82	20.87	20.63	
3	16QAM	8	4	20.60	20.62	20.85	
3	16QAM	8	7	20.52	20.76	20.71	21.8
3	16QAM	15	0	20.62	20.69	20.68	
3	64QAM	1	0	20.80	20.86	20.97	
3	64QAM	1	8	20.78	20.61	20.84	21.8
3	64QAM	1	14	20.78	20.69	20.87	
3	64QAM	8	0	19.71	19.76	19.73	
3	64QAM	8	4	19.71	19.89	19.64	
3	64QAM	8	7	19.56	19.54	19.56	20.8
3	64QAM	15	0	19.64	19.79	19.59	
Channel				18607	18900	19193	Tune-up limit
Frequency (MHz)				1850.7	1880	1909.3	(dBm)
1.4	QPSK	1	0	22.72	22.80	22.74	
1.4	QPSK	1	3	22.66	22.70	22.78	
1.4	QPSK	1	5	22.72	22.73	22.57	
1.4	QPSK	3	0	21.86	21.88	21.80	23.8
1.4	QPSK	3	1	21.83	21.83	21.82	
1.4	QPSK	3	3	21.83	21.85	21.81	
1.4	QPSK	6	0	21.70	21.69	21.73	22.8
1.4	16QAM	1	0	22.05	22.03	21.88	
1.4	16QAM	1	3	21.82	21.99	21.94	
1.4	16QAM	1	5	21.86	21.94	21.85	
1.4	16QAM	3	0	20.83	20.90	20.80	22.8
1.4	16QAM	3	1	20.84	20.87	20.85	
1.4	16QAM	3	3	20.81	20.80	20.83	
1.4	16QAM	6	0	20.47	20.68	20.57	21.8
1.4	64QAM	1	0	20.71	20.90	20.74	
1.4	64QAM	1	3	20.66	20.62	20.82	
1.4	64QAM	1	5	20.72	20.70	20.70	
1.4	64QAM	3	0	19.87	19.94	19.88	21.8
1.4	64QAM	3	1	19.81	19.89	19.86	
1.4	64QAM	3	3	19.85	19.82	19.81	
1.4	64QAM	6	0	19.71	19.79	19.67	20.8

3	16QAM	1	8	21.97	21.98	21.97	22.8
3	16QAM	1	14	21.81	21.95	21.91	
3	16QAM	8	0	20.73	20.85	20.72	
3	16QAM	8	4	20.74	20.76	20.80	
3	16QAM	8	7	20.60	20.65	20.74	21.8
3	16QAM	15	0	20.63	20.72	20.53	
3	64QAM	1	0	20.89	20.95	20.82	
3	64QAM	1	8	20.65	20.66	20.87	21.8
3	64QAM	1	14	20.69	20.75	20.93	
3	64QAM	8	0	19.64	19.86	19.76	
3	64QAM	8	4	19.74	19.87	19.55	
3	64QAM	8	7	19.59	19.71	19.67	20.8
3	64QAM	15	0	19.67	19.69	19.57	
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	22.76	22.78	22.73	
1.4	QPSK	1	3	22.66	22.69	22.63	
1.4	QPSK	1	5	22.70	22.75	22.71	
1.4	QPSK	3	0	21.87	21.90	21.82	23.8
1.4	QPSK	3	1	21.85	21.80	21.87	
1.4	QPSK	3	3	21.83	21.85	21.81	
1.4	QPSK	6	0	21.69	21.73	21.86	22.8
1.4	16QAM	1	0	22.04	22.05	22.03	
1.4	16QAM	1	3	22.04	22.03	21.76	
1.4	16QAM	1	5	21.90	21.84	21.99	
1.4	16QAM	3	0	20.84	20.86	20.82	22.8
1.4	16QAM	3	1	20.81	20.83	20.81	
1.4	16QAM	3	3	20.83	20.81	20.80	
1.4	16QAM	6	0	20.59	20.82	20.56	21.8
1.4	64QAM	1	0	20.96	20.97	20.75	
1.4	64QAM	1	3	20.75	20.84	20.93	
1.4	64QAM	1	5	20.66	20.61	20.97	
1.4	64QAM	3	0	19.85	19.94	19.88	21.8
1.4	64QAM	3	1	19.81	19.90	19.87	
1.4	64QAM	3	3	19.82	19.86	19.80	
1.4	64QAM	6	0	19.75	19.81	19.69	20.8

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	23.79	23.91	23.84	
10	QPSK	1	25	23.82	23.86	23.83	24.8
10	QPSK	1	49	23.68	23.75	23.66	
10	QPSK	25	0	22.81	22.85	22.83	
10	QPSK	25	12	22.73	22.74	22.78	
10	QPSK	25	25	22.70	22.75	22.69	23.8
10	QPSK	50	0	22.66	22.82	22.70	
10	16QAM	1	0	22.89	23.10	22.94	
10	16QAM	1	25	22.91	22.97	22.98	
10	16QAM	1	49	22.98	22.97	22.90	23.8
10	16QAM	25	0	21.80	21.85	21.72	
10	16QAM	25	12	21.60	21.75	21.85	
10	16QAM	25	25	21.59	21.76	21.83	
10	16QAM	50	0	21.64	21.72	21.58	22.8
10	64QAM	1	0	21.79	21.99	21.73	
10	64QAM	1	25	21.75	21.86	21.95	
10	64QAM	1	49	21.77	21.83	21.82	
10	64QAM	25	0	20.72	20.78	20.71	21.8
10	64QAM	25	12	20.66	20.76	20.68	
10	64QAM	25	25	20.53	20.73	20.61	
10	64QAM	50	0	20.65	20.75	20.67	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.77	23.85	23.79	
5	QPSK	1	12	23.74	23.72	23.73	24.8
5	QPSK	1	24	23.63	23.72	23.60	
5	QPSK	12	0	22.86	22.95	22.69	
5	QPSK	12	7	22.84	22.70	22.73	
5	QPSK	12	13	22.79	22.70	22.66	23.8
5	QPSK	25	0	22.65	22.82	22.73	
5	16QAM	1	0	22.80	23.11	23.02	
5	16QAM	1	12	22.92	23.06	22.98	
5	16QAM	1	24	22.82	22.87	22.96	23.8
5	16QAM	12	0	21.81	21.87	21.69	
5	16QAM	12	7	21.73	21.70	21.86	
5	16QAM	12	13	21.65	21.69	21.81	
5	16QAM	25	0	21.63	21.71	21.74	22.8
5	64QAM	1	0	21.83	21.94	21.88	
5	64QAM	1	12	21.68	21.73	21.75	
5	64QAM	1	24	21.70	21.81	21.83	
5	64QAM	12	0	20.63	20.84	20.79	21.8
5	64QAM	12	7	20.68	20.70	20.66	
5	64QAM	12	13	20.62	20.73	20.65	
5	64QAM	25	0	20.66	20.71	20.70	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.79	23.83	23.78	
3	QPSK	1	8	23.74	23.78	23.75	24.8
3	QPSK	1	14	23.72	23.76	23.60	
3	QPSK	8	0	22.73	22.83	22.82	
3	QPSK	8	4	22.77	22.74	22.69	
3	QPSK	8	7	22.76	22.78	22.59	23.8
3	QPSK	15	0	22.69	22.68	22.68	
3	16QAM	1	0	22.91	23.06	22.94	
3	16QAM	1	8	22.87	23.05	22.93	
3	16QAM	1	14	22.88	22.87	23.00	23.8
3	16QAM	8	0	21.80	21.80	21.74	
3	16QAM	8	4	21.63	21.67	21.65	
3	16QAM	8	7	21.69	21.63	21.68	
3	16QAM	15	0	21.65	21.77	21.74	22.8
3	64QAM	1	0	21.79	21.93	21.86	
3	64QAM	1	8	21.73	21.74	21.81	
3	64QAM	1	14	21.77	21.72	21.81	
3	64QAM	8	0	20.75	20.81	20.86	21.8
3	64QAM	8	4	20.75	20.81	20.71	
3	64QAM	8	7	20.70	20.66	20.74	
3	64QAM	15	0	20.71	20.86	20.69	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.71	23.86	23.74	
1.4	QPSK	1	3	23.70	23.77	23.68	24.8
1.4	QPSK	1	5	23.70	23.67	23.61	
1.4	QPSK	3	0	22.84	22.99	22.94	
1.4	QPSK	3	1	22.85	22.85	22.84	
1.4	QPSK	3	3	22.84	22.86	22.87	23.8
1.4	QPSK	6	0	22.56	22.72	22.67	
1.4	16QAM	1	0	22.82	23.18	23.00	
1.4	16QAM	1	3	22.87	22.93	22.81	
1.4	16QAM	1	5	22.97	22.88	22.85	23.8
1.4	16QAM	3	0	21.86	21.85	21.82	
1.4	16QAM	3	1	21.88	21.86	21.84	
1.4	16QAM	3	3	21.82	21.83	21.81	
1.4	16QAM	6	0	21.56	21.81	21.59	22.8
1.4	64QAM	1	0	21.91	21.88	21.86	
1.4	64QAM	1	3	21.77	21.65	21.89	
1.4	64QAM	1	5	21.73	21.70	21.78	
1.4	64QAM	3	0	20.85	20.85	20.86	22.8
1.4	64QAM	3	1	20.81	20.89	20.88	
1.4	64QAM	3	3	20.87	20.85	20.82	
1.4	64QAM	6	0	20.51	20.68	20.74	

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	22.73	22.84	22.79	
20	QPSK	1	49	22.67	22.80	22.74	23.8
20	QPSK	1	99	22.64	22.68	22.61	
20	QPSK	50	0	21.77	21.86	21.80	
20	QPSK	50	24	21.78	21.80	21.74	
20	QPSK	50	50	21.59	21.75	21.57	22.8
20	QPSK	100	0	21.59	21.68	21.75	
20	16QAM	1	0	21.88	22.04	21.95	
20	16QAM	1	49	21.87	22.03	21.93	
20	16QAM	1	99	21.87	21.94	21.93	22.8
20	16QAM	50	0	20.77	20.99	20.71	
20	16QAM	50	24	20.75	20.73	20.80	
20	16QAM	50	50	20.68	20.79	20.73	
20	16QAM	100	0	20.44	20.77	20.71	21.8
20	64QAM	1	0	20.93	21.09	20.83	
20	64QAM	1	49	20.81	20.73	20.92	
20	64QAM	1	99	20.60	20.77	20.87	
20	64QAM	50	0	19.78	19.74	19.84	20.8
20	64QAM	50	24	19.68	19.74	19.58	
20	64QAM	50	50	19.64	19.61	19.59	
20	64QAM	100	0	19.70	19.88	19.69	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.77	22.80	22.79	
15	QPSK	1	37	22.76	22.67	22.71	23.8
15	QPSK	1	74	22.64	22.69	22.61	
15	QPSK	36	0	21.76	21.79	21.72	
15	QPSK	36	20	21.74	21.73	21.57	
15	QPSK	36	39	21.65	21.70	21.73	22.8
15	QPSK	75	0	21.57	21.70	21.63	
15	16QAM	1	0	22.02	22.09	22.00	
15	16QAM	1	37	21.99	22.05	21.98	
15	16QAM	1	74	21.87	21.87	21.84	22.8
15	16QAM	36	0	20.83	20.85	20.76	
15	16QAM	36	20	20.63	20.53	20.65	
15	16QAM	36	39	20.70	20.59	20.71	
15	16QAM	75	0	20.66	20.77	20.71	21.8
15	64QAM	1	0	20.90	21.00	20.79	
15	64QAM	1	37	20.83	20.75	20.96	
15	64QAM	1	74	20.78	20.70	20.97	
15	64QAM	36	0	19.78	19.80	19.73	20.8
15	64QAM	36	20	19.70	19.70	19.58	
15	64QAM	36	39	19.76	19.69	19.59	
15	64QAM	75	0	19.56	19.87	19.80	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.66	22.81	22.75	
10	QPSK	1	25	22.72	22.64	22.71	23.8
10	QPSK	1	49	22.60	22.68	22.66	
10	QPSK	25	0	21.83	21.88	21.82	
10	QPSK	25	12	21.74	21.68	21.76	
10	QPSK	25	25	21.71	21.70	21.69	22.8
10	QPSK	50	0	21.64	21.62	21.78	
10	16QAM	1	0	21.96	22.06	21.97	
10	16QAM	1	25	21.88	21.88	21.86	
10	16QAM	1	49	21.94	22.05	21.95	22.8
10	16QAM	25	0	20.78	20.88	20.78	
10	16QAM	25	12	20.78	20.54	20.63	
10	16QAM	25	25	20.64	20.62	20.76	
10	16QAM	50	0	20.43	20.72	20.64	21.8
10	64QAM	1	0	20.82	20.97	20.93	
10	64QAM	1	25	20.75	20.60	20.96	
10	64QAM	1	49	20.85	20.62	20.91	
10	64QAM	25	0	19.65	19.72	19.88	20.8
10	64QAM	25	12	19.70	19.78	19.67	
10	64QAM	25	25	19.51	19.64	19.59	
10	64QAM	50	0	19.56	19.72	19.66	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.77	22.79	22.71	
5	QPSK	1	12	22.72	22.65	22.72	23.8
5	QPSK	1	24	22.70	22.67	22.64	
5	QPSK	12	0	21.67	21.82	21.73	
5	QPSK	12	7	21.73	21.59	21.57	
5	QPSK	12	13	21.67	21.75	21.59	22.8
5	QPSK	25	0	21.75	21.69	21.76	
5	16QAM	1	0	22.02	22.10	21.95	
5	16QAM	1	12	21.96	22.00	21.83	
5	16QAM	1	24	21.85	21.86	21.85	22.8
5	16QAM	12	0	20.79	20.81	20.67	
5	16QAM	12	7	20.59	20.78	20.75	
5	16QAM	12	13	20.67	20.68	20.73	
5	16QAM	25	0	20.63	20.81	20.67	21.8
5	64QAM	1	0	20.91	20.97	20.80	
5	64QAM	1	12	20.62	20.80	20.89	
5	64QAM	1	24	20.60	20.79	20.75	
5	64QAM	12	0	19.83	19.85	19.76	20.8
5	64QAM	12	7	19.67	19.69	19.62	
5	64QAM	12	13	19.57	19.71	19.67	
5	64QAM	25	0	19.74	19.71	19.69	

Band 12 (700MHz Low Band) (dBm) Part 27E(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	23.92	23.97	23.85	24.8
10	QPSK	1	25	23.73	23.78	23.72	
10	QPSK	1	49	23.78	23.79	23.75	
10	QPSK	25	0	22.83	22.95	22.89	
10	QPSK	25	12	22.84	22.74	22.83	23.8
10	QPSK	25	25	22.79	22.88	22.74	
10	QPSK	50	0	22.70	22.86	22.81	
10	16QAM	1	0	22.92	23.16	22.98	
10	16QAM	1	25	23.02	23.14	22.86	23.8
10	16QAM	1	49	22.89	23.12	22.97	
10	16QAM	25	0	21.85	21.91	21.67	
10	16QAM	25	12	21.74	21.72	21.87	
10	16QAM	25	25	21.68	21.83	21.87	22.8
10	16QAM	50	0	21.76	21.90	21.73	
10	64QAM	1	0	21.90	22.12	21.88	
10	64QAM	1	25	21.85	21.79	21.84	
10	64QAM	1	49	21.81	21.87	21.91	22.8
10	64QAM	25	0	20.84	20.89	20.76	
10	64QAM	25	12	20.71	20.88	20.69	
10	64QAM	25	25	20.62	20.64	20.71	
10	64QAM	50	0	20.64	20.81	20.71	21.8
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.86	23.93	23.79	
5	QPSK	1	12	23.78	23.84	23.69	24.8
5	QPSK	1	24	23.80	23.85	23.75	
5	QPSK	12	0	22.78	22.92	22.85	
5	QPSK	12	7	22.97	22.68	22.60	
5	QPSK	12	13	22.83	22.74	22.66	23.8
5	QPSK	25	0	22.64	22.70	22.90	
5	16QAM	1	0	23.05	23.13	22.93	
5	16QAM	1	12	23.00	23.04	22.86	
5	16QAM	1	24	22.98	23.03	23.08	23.8
5	16QAM	12	0	21.85	21.90	21.81	
5	16QAM	12	7	21.78	21.71	21.72	
5	16QAM	12	13	21.68	21.76	21.77	
5	16QAM	25	0	21.77	21.82	21.74	22.8
5	64QAM	1	0	21.87	21.96	21.79	
5	64QAM	1	12	21.72	21.88	21.89	
5	64QAM	1	24	21.66	21.77	21.84	
5	64QAM	12	0	20.84	20.89	20.72	21.8
5	64QAM	12	7	20.71	20.80	20.67	
5	64QAM	12	13	20.74	20.72	20.75	
5	64QAM	25	0	20.68	20.89	20.85	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.84	23.92	23.82	24.8
3	QPSK	1	8	23.71	23.85	23.70	
3	QPSK	1	14	23.67	23.75	23.79	
3	QPSK	8	0	22.77	22.88	22.82	
3	QPSK	8	4	22.81	22.85	22.83	23.8
3	QPSK	8	7	22.79	22.79	22.73	
3	QPSK	15	0	22.66	22.80	22.81	
3	16QAM	1	0	23.02	23.12	23.08	
3	16QAM	1	8	22.90	23.10	22.93	23.8
3	16QAM	1	14	22.98	23.06	22.85	
3	16QAM	8	0	21.77	21.80	21.75	
3	16QAM	8	4	21.79	21.73	21.73	
3	16QAM	8	7	21.77	21.75	21.75	22.8
3	16QAM	15	0	21.69	21.78	21.70	
3	64QAM	1	0	21.88	22.10	21.95	
3	64QAM	1	8	21.86	21.87	21.94	
3	64QAM	1	14	21.74	21.79	21.89	22.8
3	64QAM	8	0	20.85	20.85	20.87	
3	64QAM	8	4	20.72	20.83	20.65	
3	64QAM	8	7	20.69	20.70	20.69	
3	64QAM	15	0	20.57	20.84	20.71	21.8
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.73	23.90	23.85	
1.4	QPSK	1	3	23.77	23.79	23.67	24.8
1.4	QPSK	1	5	23.64	23.80	23.66	
1.4	QPSK	3	0	22.81	22.95	22.87	
1.4	QPSK	3	1	22.88	22.83	22.84	
1.4	QPSK	3	3	22.86	22.88	22.90	23.8
1.4	QPSK	6	0	22.75	22.72	22.74	
1.4	16QAM	1	0	22.95	23.06	23.04	
1.4	16QAM	1	3	22.94	22.96	22.79	
1.4	16QAM	1	5	22.83	23.06	23.06	23.8
1.4	16QAM	3	0	21.92	21.88	21.84	
1.4	16QAM	3	1	21.87	21.87	21.86	
1.4	16QAM	3	3	21.84	21.90	21.85	
1.4	16QAM	6	0	21.65	21.79	21.78	22.8
1.4	64QAM	1	0	21.84	21.99	21.81	
1.4	64QAM	1	3	21.63	21.85	21.91	
1.4	64QAM	1	5	21.87	21.83	21.89	
1.4	64QAM	3	0	20.81	20.98	20.87	22.8
1.4	64QAM	3	1	20.81	20.88	20.82	
1.4	64QAM	3	3	20.87	20.80	20.81	
1.4	64QAM	6	0	20.79	20.77	20.83	

Band 13(700MHz Band) (dBm)							
Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		23.98		24.8
10	QPSK	1	25		23.87		
10	QPSK	1	49		23.79		
10	QPSK	25	0		22.88		
10	QPSK	25	12		22.87		23.8
10	QPSK	25	25		22.77		
10	QPSK	50	0		22.70		
10	16QAM	1	0		23.11		
10	16QAM	1	25		23.06		23.8
10	16QAM	1	49		23.09		
10	16QAM	25	0		22.05		
10	16QAM	25	12		21.85		
10	16QAM	25	25		21.80		22.8
10	16QAM	50	0		21.77		
10	64QAM	1	0		22.10		
10	64QAM	1	25		21.83		
10	64QAM	1	49		21.90		22.8
10	64QAM	25	0		20.88		
10	64QAM	25	12		20.97		
10	64QAM	25	25		20.78		
10	64QAM	50	0		20.86		21.8
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	Tune-up limit (dBm)
5	QPSK	1	0	23.87	23.93	23.92	24.8
5	QPSK	1	12	23.90	23.81	23.83	
5	QPSK	1	24	23.68	23.82	23.79	
5	QPSK	12	0	22.81	22.89	22.85	
5	QPSK	12	7	22.85	22.85	22.84	23.8
5	QPSK	12	13	22.82	22.80	22.81	
5	QPSK	25	0	22.74	22.88	22.88	
5	16QAM	1	0	22.93	23.07	23.05	
5	16QAM	1	12	23.03	23.02	22.91	23.8
5	16QAM	1	24	23.03	23.04	23.01	
5	16QAM	12	0	21.96	21.98	21.75	
5	16QAM	12	7	21.78	21.84	21.79	
5	16QAM	12	13	21.60	21.71	21.70	22.8
5	16QAM	25	0	21.74	21.78	21.76	
5	64QAM	1	0	21.96	22.00	21.92	
5	64QAM	1	12	21.93	21.94	21.99	
5	64QAM	1	24	21.92	21.78	21.95	22.8
5	64QAM	12	0	20.79	20.83	20.88	
5	64QAM	12	7	20.82	20.81	20.69	
5	64QAM	12	13	20.70	20.77	20.83	
5	64QAM	25	0	20.63	20.81	20.67	21.8

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	23.79	23.88	23.85	
10	QPSK	1	25	23.74	23.79	23.73	24.8
10	QPSK	1	49	23.64	23.82	23.64	
10	QPSK	25	0	22.86	22.90	22.88	
10	QPSK	25	12	22.81	22.79	22.75	23.8
10	QPSK	25	25	22.69	22.76	22.70	
10	QPSK	50	0	22.74	22.81	22.71	
10	16QAM	1	0	23.04	23.09	23.04	23.8
10	16QAM	1	25	23.00	23.03	22.99	
10	16QAM	1	49	22.94	22.94	22.85	
10	16QAM	25	0	21.77	21.88	21.61	22.8
10	16QAM	25	12	21.77	21.77	21.68	
10	16QAM	25	25	21.63	21.61	21.73	
10	16QAM	50	0	21.68	21.82	21.78	22.8
10	64QAM	1	0	21.88	22.05	21.80	
10	64QAM	1	25	21.79	21.81	21.81	
10	64QAM	1	49	21.74	21.76	21.84	21.8
10	64QAM	25	0	20.76	20.87	20.83	
10	64QAM	25	12	20.79	20.81	20.63	
10	64QAM	25	25	20.80	20.64	20.66	21.8
10	64QAM	50	0	20.67	20.83	20.75	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.73	23.85	23.82	
5	QPSK	1	12	23.69	23.82	23.81	24.8
5	QPSK	1	24	23.72	23.74	23.68	
5	QPSK	12	0	22.75	22.87	22.80	
5	QPSK	12	7	22.70	22.61	22.82	23.8
5	QPSK	12	13	22.68	22.79	22.66	
5	QPSK	25	0	22.67	22.75	22.72	
5	16QAM	1	0	23.01	23.10	23.05	23.8
5	16QAM	1	12	23.04	22.99	22.77	
5	16QAM	1	24	22.81	23.02	22.91	
5	16QAM	12	0	21.81	21.86	21.74	22.8
5	16QAM	12	7	21.82	21.82	21.70	
5	16QAM	12	13	21.73	21.69	21.84	
5	16QAM	25	0	21.76	21.79	21.68	22.8
5	64QAM	1	0	21.75	21.98	21.95	
5	64QAM	1	12	21.70	21.79	21.94	
5	64QAM	1	24	21.71	21.81	21.88	21.8
5	64QAM	12	0	20.88	20.90	20.81	
5	64QAM	12	7	20.81	20.75	20.76	
5	64QAM	12	13	20.74	20.69	20.78	21.8
5	64QAM	25	0	20.66	20.78	20.79	

Band 25 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	22.95	22.97	22.91	
20	QPSK	1	49	22.82	22.78	22.76	23.8
20	QPSK	1	99	22.77	22.82	22.79	
20	QPSK	50	0	21.83	21.89	21.81	
20	QPSK	50	24	21.79	21.69	21.78	22.8
20	QPSK	50	50	21.68	21.78	21.70	
20	QPSK	100	0	21.73	21.88	21.84	
20	16QAM	1	0	22.08	22.09	21.98	22.8
20	16QAM	1	49	22.05	22.03	21.98	
20	16QAM	1	99	22.06	22.04	22.05	
20	16QAM	50	0	20.88	20.91	20.67	21.8
20	16QAM	50	24	20.76	20.74	20.74	
20	16QAM	50	50	20.63	20.68	20.88	
20	16QAM	100	0	20.70	20.81	20.66	21.8
20	64QAM	1	0	20.97	21.08	21.07	
20	64QAM	1	49	20.87	20.82	21.03	
20	64QAM	1	99	20.79	20.84	21.01	20.8
20	64QAM	50	0	19.83	19.91	19.89	
20	64QAM	50	24	19.66	19.90	19.65	
20	64QAM	50	50	19.74	19.72	19.80	20.8
20	64QAM	100	0	19.75	19.84	19.67	
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	22.90	22.94	22.85	
15	QPSK	1	37	22.75	22.85	22.75	23.8
15	QPSK	1	74	22.66	22.83	22.73	
15	QPSK	36	0	21.83	21.96	21.93	
15	QPSK	36	20	21.86	21.82	21.81	22.8
15	QPSK	36	39	21.86	21.88	21.71	
15	QPSK	75	0	21.74	21.84	21.87	
15	16QAM	1	0	22.02	22.10	22.05	22.8
15	16QAM	1	37	22.01	22.04	22.03	
15	16QAM	1	74	22.06	22.05	22.03	
15	16QAM	36	0	20.87	20.99	20.79	21.8
15	16QAM	36	20	20.79	20.78	20.75	
15	16QAM	36	39	20.81	20.73	20.85	
15	16QAM	75	0	20.80	20.85	20.77	21.8
15	64QAM	1	0	20.91	21.06	20.95	
15	64QAM	1	37	20.91	20.75	21.05	
15	64QAM	1	74	20.80	20.81	20.96	20.8
15	64QAM	36	0	19.70	19.98	19.92	
15	64QAM	36	20	19.78	19.95	19.69	
15	64QAM	36	39	19.71	19.81	19.75	20.8
15	64QAM	75	0	19.69	19.90	19.85	
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	22.91	22.95	22.85	
10	QPSK	1	25	22.82	22.87	22.88	23.8
10	QPSK	1	49	22.69	22.90	22.74	
10	QPSK	25	0	21.89	21.95	21.87	
10	QPSK	25	12	21.82	21.68	21.79	22.8
10	QPSK	25	25	21.74	21.80	21.81	
10	QPSK	50	0	21.70	21.88	21.88	
10	16QAM	1	0	21.90	22.10	21.98	22.8
10	16QAM	1	25	22.06	21.99	22.00	
10	16QAM	1	49	21.92	22.02	21.99	
10	16QAM	25	0	20.89	21.06	20.86	21.8
10	16QAM	25	12	20.93	20.86	20.93	
10	16QAM	25	25	20.83	20.72	20.72	
10	16QAM	50	0	20.83	21.01	20.80	21.8
10	64QAM	1	0	21.02	21.04	20.93	
10	64QAM	1	25	20.82	20.77	20.96	
10	64QAM	1	49	20.74	20.75	20.98	20.8
10	64QAM	25	0	19.91	19.90	19.84	
10	64QAM	25	12	19.82	19.88	19.79	
10	64QAM	25	25	19.85	19.77	19.70	20.8
10	64QAM	50	0	19.82	19.77	19.85	
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	22.87	22.92	22.84	
5	QPSK	1	12	22.89	22.83	22.86	23.8
5	QPSK	1	24	22.71	22.89	22.82	
5	QPSK	12	0	21.96	21.94	21.89	
5	QPSK	12	7	21.94	21.73	21.67	22.8
5	QPSK	12	13	21.89	21.76	21.82	
5	QPSK	25	0	21.76	21.79	21.78	
5	16QAM	1	0	21.94	22.15	22.12	22.8
5	16QAM	1	12	22.06	22.08	21.99	
5	16QAM	1	24	21.94	22.01	22.06	
5	16QAM	12	0	21.04	21.06	20.74	21.8
5	16QAM	12	7	20.94	20.81	20.72	
5	16QAM	12	13	20.77	20.76	20.89	
5	16QAM	25	0	20.54	20.86	20.77	21.8
5	64QAM	1	0	20.96	21.05	20.89	
5	64QAM	1	12	20.70	20.76	20.90	
5	64QAM	1	24	20.71	20.87	20.88	20.8
5	64QAM	12	0	19.83	20.04	19.98	
5	64QAM	12	7	19.84	20.02	19.79	
5	64QAM	12	13	19.73	19.81	19.85	20.8
5	64QAM	25	0	19.71	19.76	19.88	
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	22.81	22.93	22.87	
3	QPSK	1	8	22.77	22.82	22.70	23.8
3	QPSK	1	14	22.83	22.86	22.77	
3	QPSK	8	0	21.89	22.06	22.04	
3	QPSK	8	4	21.97	21.72	21.79	22.8
3	QPSK	8	7	21.78	21.74	21.72	



3	QPSK	15	0	21.84	21.70	21.86	22.8
3	16QAM	1	0	22.04	22.12	22.05	
3	16QAM	1	8	21.96	22.09	22.07	
3	16QAM	1	14	21.91	22.10	21.95	21.8
3	16QAM	8	0	20.97	20.90	20.73	
3	16QAM	8	4	20.81	20.78	20.77	
3	16QAM	8	7	20.78	20.85	20.75	
3	16QAM	15	0	20.64	20.84	20.75	
3	64QAM	1	0	20.87	21.06	20.86	21.8
3	64QAM	1	8	20.78	20.81	20.90	
3	64QAM	1	14	20.77	20.79	21.02	
3	64QAM	8	0	19.83	19.93	19.79	20.8
3	64QAM	8	4	19.83	19.91	19.80	
3	64QAM	8	7	19.66	19.77	19.68	
3	64QAM	15	0	19.74	19.90	19.69	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	22.85	22.91	22.86	23.8
1.4	QPSK	1	3	22.84	22.71	22.83	
1.4	QPSK	1	5	22.66	22.76	22.73	
1.4	QPSK	3	0	21.78	22.10	21.82	
1.4	QPSK	3	1	21.97	21.80	21.80	
1.4	QPSK	3	3	21.93	21.78	21.75	
1.4	QPSK	6	0	21.85	21.82	21.91	22.8
1.4	16QAM	1	0	22.03	22.11	22.03	21.8
1.4	16QAM	1	3	22.09	22.06	22.05	
1.4	16QAM	1	5	21.94	22.03	22.08	
1.4	16QAM	3	0	21.07	21.09	20.96	
1.4	16QAM	3	1	20.72	20.83	20.77	
1.4	16QAM	3	3	20.81	20.88	20.83	
1.4	16QAM	6	0	20.71	20.84	20.72	20.8
1.4	64QAM	1	0	20.91	21.02	20.96	21.8
1.4	64QAM	1	3	20.88	20.75	21.02	
1.4	64QAM	1	5	20.84	20.71	21.00	
1.4	64QAM	3	0	19.81	19.87	19.98	
1.4	64QAM	3	1	19.73	20.00	19.74	
1.4	64QAM	3	3	19.74	19.79	19.79	
1.4	64QAM	6	0	19.80	19.78	19.73	20.8



Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	23.8
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.87	22.95	22.90	23.8
20	QPSK	1	49	22.64	22.60	22.78	
20	QPSK	1	99	22.73	22.87	22.69	
20	QPSK	50	0	21.86	21.91	21.87	
20	QPSK	50	24	21.73	21.78	21.75	22.8
20	QPSK	50	50	21.63	21.77	21.67	
20	QPSK	100	0	21.66	21.64	21.87	
20	16QAM	1	0	21.85	22.10	21.93	
20	16QAM	1	49	22.03	22.08	21.77	22.8
20	16QAM	1	99	21.97	21.93	21.90	
20	16QAM	50	0	20.86	20.89	20.75	
20	16QAM	50	24	20.79	20.71	20.78	
20	16QAM	50	50	20.66	20.73	20.81	21.8
20	16QAM	100	0	20.75	20.92	20.71	
20	64QAM	1	0	20.91	20.97	20.73	
20	64QAM	1	49	20.72	20.83	20.86	
20	64QAM	1	99	20.83	20.77	20.86	21.8
20	64QAM	50	0	19.70	19.83	19.70	
20	64QAM	50	24	19.74	19.93	19.69	
20	64QAM	50	50	19.65	19.67	19.67	
20	64QAM	100	0	19.60	19.79	19.71	20.8
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	23.8
15	QPSK	1	0	22.81	22.91	22.85	
15	QPSK	1	37	22.87	22.78	22.77	23.8
15	QPSK	1	74	22.77	22.78	22.71	
15	QPSK	36	0	21.83	21.85	21.77	
15	QPSK	36	20	21.87	21.71	21.69	
15	QPSK	36	39	21.80	21.79	21.72	22.8
15	QPSK	75	0	21.70	21.70	21.79	
15	16QAM	1	0	21.95	22.01	22.07	
15	16QAM	1	37	21.95	21.89	21.77	
15	16QAM	1	74	21.84	22.05	21.94	22.8
15	16QAM	36	0	20.77	20.84	20.77	
15	16QAM	36	20	20.60	20.53	20.78	
15	16QAM	36	39	20.69	20.57	20.80	
15	16QAM	75	0	20.60	20.76	20.61	21.8
15	64QAM	1	0	20.79	20.91	20.95	
15	64QAM	1	37	20.77	20.80	20.77	
15	64QAM	1	74	20.80	20.74	20.85	
15	64QAM	36	0	19.71	19.74	19.80	21.8
15	64QAM	36	20	19.65	19.67	19.72	
15	64QAM	36	39	19.73	19.67	19.74	
15	64QAM	75	0	19.75	19.87	19.78	
Channel				132022	132322	132622	23.8
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.78	22.89	22.83	23.8
10	QPSK	1	25	22.68	22.68	22.71	
10	QPSK	1	49	22.68	22.72	22.72	
10	QPSK	25	0	21.78	21.91	21.86	
10	QPSK	25	12	21.86	21.76	21.79	22.8
10	QPSK	25	25	21.76	21.74	21.72	
10	QPSK	50	0	21.78	21.72	21.86	
10	16QAM	1	0	21.99	22.09	21.95	
10	16QAM	1	25	21.81	21.94	21.89	22.8
10	16QAM	1	49	21.80	21.95	21.96	
10	16QAM	25	0	20.89	20.80	20.60	
10	16QAM	25	12	20.69	20.68	20.71	
10	16QAM	25	25	20.61	20.72	20.75	21.8
10	16QAM	50	0	20.57	20.75	20.61	
10	64QAM	1	0	20.92	20.94	20.79	
10	64QAM	1	25	20.65	20.64	20.89	
10	64QAM	1	49	20.82	20.68	20.79	21.8
10	64QAM	25	0	19.79	19.71	19.75	
10	64QAM	25	12	19.68	19.80	19.53	
10	64QAM	25	25	19.71	19.62	19.52	
10	64QAM	50	0	19.59	19.73	19.62	20.8
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	23.8
5	QPSK	1	0	22.79	22.86	22.71	
5	QPSK	1	12	22.70	22.71	22.69	23.8
5	QPSK	1	24	22.65	22.67	22.62	
5	QPSK	12	0	21.88	21.92	21.75	
5	QPSK	12	7	21.89	21.70	21.64	
5	QPSK	12	13	21.68	21.80	21.61	22.8
5	QPSK	25	0	21.67	21.77	21.83	
5	16QAM	1	0	21.81	22.02	21.90	
5	16QAM	1	12	22.05	21.98	21.87	
5	16QAM	1	24	21.92	22.04	21.86	22.8
5	16QAM	12	0	20.91	20.79	20.76	
5	16QAM	12	7	20.62	20.85	20.84	
5	16QAM	12	13	20.68	20.77	20.69	
5	16QAM	25	0	20.61	20.72	20.66	21.8
5	64QAM	1	0	20.91	21.07	20.80	
5	64QAM	1	12	20.70	20.78	20.92	
5	64QAM	1	24	20.71	20.72	20.87	
5	64QAM	12	0	19.73	19.75	19.69	21.8
5	64QAM	12	7	19.60	19.80	19.57	
5	64QAM	12	13	19.72	19.64	19.56	
5	64QAM	25	0	19.75	19.81	19.60	
Channel				131987	132322	132657	23.8
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.78	22.87	22.75	23.8
3	QPSK	1	8	22.73	22.74	22.77	
3	QPSK	1	14	22.67	22.80	22.62	
3	QPSK	8	0	21.66	21.75	21.73	
3	QPSK	8	4	21.72	21.59	21.68	22.8
3	QPSK	8	7	21.81	21.66	21.59	
3	QPSK	15	0	21.59	21.73	21.65	
3	16QAM	1	0	21.90	22.05	22.04	



3	16QAM	1	8	21.91	22.08	21.88	22.8
3	16QAM	1	14	21.85	21.96	21.99	
3	16QAM	8	0	20.94	20.92	20.69	
3	16QAM	8	4	20.77	20.74	20.72	21.8
3	16QAM	8	7	20.71	20.70	20.79	
3	16QAM	15	0	20.70	20.80	20.65	
3	64QAM	1	0	20.72	21.03	20.88	21.8
3	64QAM	1	8	20.83	20.83	20.81	
3	64QAM	1	14	20.72	20.72	20.76	
3	64QAM	8	0	19.69	19.70	19.72	
3	64QAM	8	4	19.59	19.77	19.66	20.8
3	64QAM	8	7	19.72	19.60	19.65	
3	64QAM	15	0	19.62	19.78	19.76	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.81	22.86	22.70	
1.4	QPSK	1	3	22.81	22.68	22.69	
1.4	QPSK	1	5	22.55	22.76	22.81	23.8
1.4	QPSK	3	0	21.87	21.88	21.85	
1.4	QPSK	3	1	21.82	21.82	21.80	
1.4	QPSK	3	3	21.80	21.81	21.82	
1.4	QPSK	6	0	21.70	21.74	21.66	22.8
1.4	16QAM	1	0	21.94	22.03	21.85	
1.4	16QAM	1	3	21.92	21.97	21.75	
1.4	16QAM	1	5	21.84	21.99	21.86	22.8
1.4	16QAM	3	0	20.73	20.97	20.67	
1.4	16QAM	3	1	20.82	20.68	20.80	
1.4	16QAM	3	3	20.62	20.74	20.68	
1.4	16QAM	6	0	20.69	20.80	20.61	21.8
1.4	64QAM	1	0	20.71	20.90	20.85	
1.4	64QAM	1	3	20.77	20.73	20.75	
1.4	64QAM	1	5	20.68	20.71	20.93	21.8
1.4	64QAM	3	0	19.61	19.73	19.79	
1.4	64QAM	3	1	19.59	19.82	19.69	
1.4	64QAM	3	3	19.69	19.61	19.56	
1.4	64QAM	6	0	19.62	19.71	19.79	20.8



Band 71 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	24.03	24.05	24.00	24.8
20	QPSK	1	49	23.83	23.94	23.81	
20	QPSK	1	99	23.99	23.99	23.94	
20	QPSK	50	0	22.94	23.03	22.96	
20	QPSK	50	24	22.98	22.84	22.88	23.8
20	QPSK	50	50	22.84	23.01	22.76	
20	QPSK	100	0	22.80	22.86	22.99	
20	16QAM	1	0	23.10	23.15	23.06	
20	16QAM	1	49	23.01	23.06	22.94	23.8
20	16QAM	1	99	23.03	23.01	23.00	
20	16QAM	50	0	22.03	22.04	21.97	
20	16QAM	50	24	22.01	21.87	22.00	
20	16QAM	50	50	21.86	21.80	21.91	22.8
20	16QAM	100	0	21.79	21.95	21.72	
20	64QAM	1	0	22.10	22.12	22.11	
20	64QAM	1	49	21.99	21.89	22.03	
20	64QAM	1	99	21.96	21.80	22.07	21.8
20	64QAM	50	0	21.03	21.04	21.01	
20	64QAM	50	24	20.93	20.97	20.73	
20	64QAM	50	50	20.92	20.70	20.77	
20	64QAM	100	0	20.83	20.86	20.96	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.96	24.02	24.00	24.8
15	QPSK	1	37	23.95	24.00	23.98	
15	QPSK	1	74	23.94	24.00	23.93	
15	QPSK	36	0	22.90	23.04	23.03	
15	QPSK	36	20	23.09	22.86	22.84	23.8
15	QPSK	36	39	23.03	23.00	22.88	
15	QPSK	75	0	22.92	22.95	22.99	
15	16QAM	1	0	23.13	23.15	23.10	
15	16QAM	1	37	23.12	23.09	23.04	23.8
15	16QAM	1	74	23.05	23.07	23.03	
15	16QAM	36	0	22.05	22.09	21.89	
15	16QAM	36	20	22.04	21.91	21.83	
15	16QAM	36	39	21.90	21.83	21.94	22.8
15	16QAM	75	0	21.77	21.97	21.91	
15	64QAM	1	0	22.08	22.11	22.03	
15	64QAM	1	37	21.85	22.01	22.02	
15	64QAM	1	74	21.99	22.02	22.00	21.8
15	64QAM	36	0	20.86	21.08	21.06	
15	64QAM	36	20	20.83	21.02	20.77	
15	64QAM	36	39	20.87	20.83	20.84	
15	64QAM	75	0	20.79	20.93	20.83	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	24.00	24.03	23.96	24.8
10	QPSK	1	25	23.94	23.83	23.96	
10	QPSK	1	49	23.79	24.01	23.99	
10	QPSK	25	0	22.97	23.03	23.01	
10	QPSK	25	12	23.00	23.00	22.83	23.8
10	QPSK	25	25	22.87	22.95	22.85	
10	QPSK	50	0	22.87	22.93	23.01	
10	16QAM	1	0	23.14	23.16	23.12	
10	16QAM	1	25	23.08	23.11	23.13	23.8
10	16QAM	1	49	23.04	23.09	23.00	
10	16QAM	25	0	22.02	22.05	21.89	
10	16QAM	25	12	21.81	21.96	22.04	
10	16QAM	25	25	21.74	21.77	21.96	22.8
10	16QAM	50	0	21.83	21.87	21.70	
10	64QAM	1	0	21.91	22.07	22.00	
10	64QAM	1	25	21.96	21.80	21.96	
10	64QAM	1	49	21.99	21.84	22.01	21.8
10	64QAM	25	0	20.88	21.00	20.93	
10	64QAM	25	12	20.92	20.99	20.87	
10	64QAM	25	25	20.75	20.94	20.75	
10	64QAM	50	0	20.71	21.00	20.90	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	23.98	24.00	23.95	24.8
5	QPSK	1	12	23.93	23.96	23.83	
5	QPSK	1	24	23.89	23.94	23.93	
5	QPSK	12	0	23.07	23.09	23.02	
5	QPSK	12	7	23.02	22.78	22.96	23.8
5	QPSK	12	13	22.81	22.87	22.78	
5	QPSK	25	0	22.89	22.85	22.86	
5	16QAM	1	0	23.05	23.12	23.07	
5	16QAM	1	12	23.11	23.11	23.08	23.8
5	16QAM	1	24	23.03	23.06	23.04	
5	16QAM	12	0	22.10	22.04	21.87	
5	16QAM	12	7	21.84	21.92	21.86	
5	16QAM	12	13	21.76	21.76	21.96	22.8
5	16QAM	25	0	21.73	21.93	21.79	
5	64QAM	1	0	22.06	22.15	22.11	
5	64QAM	1	12	21.81	21.85	22.14	
5	64QAM	1	24	21.93	21.90	22.06	21.8
5	64QAM	12	0	20.83	20.89	20.93	
5	64QAM	12	7	20.94	20.92	20.86	
5	64QAM	12	13	20.84	20.76	20.78	
5	64QAM	25	0	20.91	21.04	20.79	

CA_5B									
Combination:10MHz+10MHz(50RB+50RB)									
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset		
20450	20450	20549	QPSK	1	0	0	0	23.84	24.5
20476	20476	20575	QPSK	1	0	0	0	23.77	24.5
20501	20501	20600	QPSK	1	0	0	0	23.73	24.5
20450	20450	20549	16QAM	1	0	0	0	23.39	24
20476	20476	20575	16QAM	1	0	0	0	23.24	24
20501	20501	20600	16QAM	1	0	0	0	23.27	24
20450	20450	20549	64QAM	1	0	0	0	22.78	23.5
20476	20476	20575	64QAM	1	0	0	0	22.55	23.5
20501	20501	20600	64QAM	1	0	0	0	22.61	23.5
20450	20450	20549	QPSK	25	0	0	0	23.08	24
20476	20476	20575	QPSK	25	0	0	0	23.04	24
20501	20501	20600	QPSK	25	0	0	0	23.05	24

CA_66B									
Combination:10MHz+10MHz(50RB+50RB)									
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset		
132072	132022	132121	QPSK	1	0	0	0	22.88	23.5
132322	132373	132472	QPSK	1	0	0	0	22.82	23.5
132572	132523	132622	QPSK	1	0	0	0	22.79	23.5
132072	132022	132121	16QAM	1	0	0	0	22.38	23
132322	132373	132472	16QAM	1	0	0	0	22.41	23
132572	132523	132622	16QAM	1	0	0	0	22.34	23
132072	132022	132121	64QAM	1	0	0	0	21.86	22.5
132322	132373	132472	64QAM	1	0	0	0	21.62	22.5
132572	132523	132622	64QAM	1	0	0	0	21.65	22.5
132072	132022	132121	QPSK	50	0	0	0	22.15	23
132322	132373	132472	QPSK	50	0	0	0	22.11	23
132572	132523	132622	QPSK	50	0	0	0	22.12	23

CA_66C									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset		
132072	132072	132270	QPSK	1	0	0	0	22.81	23.5
132322	132323	132521	QPSK	1	0	0	0	22.84	23.5
132572	132374	132572	QPSK	1	0	0	0	22.79	23.5
132072	132072	132270	16QAM	1	0	0	0	22.36	23
132322	132323	132521	16QAM	1	0	0	0	22.41	23
132572	132374	132572	16QAM	1	0	0	0	22.34	23
132072	132072	132270	64QAM	1	0	0	0	21.85	22.5
132322	132323	132521	64QAM	1	0	0	0	21.52	22.5
132572	132374	132572	64QAM	1	0	0	0	21.58	22.5
132072	132072	132270	QPSK	50	0	0	0	22.16	23
132322	132323	132521	QPSK	50	0	0	0	22.13	23
132572	132374	132572	QPSK	50	0	0	0	22.09	23

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	22.72	23.5
	CA_2A-5A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	22.68	23.5
	CA_2A-13A	2	20	18700	1860	QPSK/1#0	13	10	23230	782	22.61	23.5
	CA_2A-66A	2	20	18700	1860	QPSK/1#0	66	20	132572	1770	22.56	23.5
	CA_4A-5A	4	20	20050	1720	QPSK/1#0	5	10	20600	844	22.69	23.5
	CA_4A-13A	4	20	20050	1720	QPSK/1#0	13	10	23230	782	22.53	23.5
	CA_5A-66A	5	10	20450	829	QPSK/1#0	66	20	132572	1770	23.76	24.5
	CA_13A-66A	13	10	23230	782	QPSK/1#0	66	20	132572	1770	23.52	24.5
	CA_2A-12A	2	20	18700	1860	QPSK/1#0	12	10	23130	711	22.53	23.5
	CA_4A-12A	4	20	20050	1720	QPSK/1#0	12	10	23130	711	22.6	23.5
	CA_12A-66A	12	10	23060	704	QPSK/1#0	66	20	132572	1770	23.58	24.5



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)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band & Inter-band	CA_4A-5A	4	20	20050	1720	QPSK/180	5	10	20600	844	21.63	22.83
	CA_66B	66	10	132373	1750.1	QPSK/180	66	10	132472	1760	22.45	22.95
	CA_66C	66	20	132323	1745.1	QPSK/180	66	20	132521	1764.9	22.36	22.95
	CA_2A-13A	2	20	18700	1860	QPSK/180	13	10	23230	782	22.21	22.89
	CA_2A-17A	2	20	18700	1860	QPSK/180	17	10	23790	710	22.25	22.89
	CA_4A-17A	4	20	20050	1720	QPSK/180	17	10	23790	710	22.18	22.83
	CA_5B	5	10	20476	831.6	QPSK/180	5	10	20575	841.5	23.29	23.91
	CA_13A-66A	13	10	23230	782	QPSK/180	66	20	67236	2190	23.08	23.98
	CA_66A-66A	66	20	132072	1720	QPSK/180	66	20	67236	2190	22.47	22.95

3CC LTE Downlink																
Configure	CA Configuration	PCC					SCC1				SCC2				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band & Inter-band	CA_2A-4A-5A	2	20	18700	1860	QPSK/180	4	20	20300	1745	5	10	20600	844	22.13	22.89
	CA_2A-4A-13A	2	20	19100	1900	QPSK/180	4	20	20300	1745	13	10	23230	782	22.15	22.89
	CA_2A-66B	2	20	18700	1860	QPSK/180	66	10	132373	1750.1	66	10	132472	1760	22.26	22.89
	CA_4A-4A-5A	4	20	20050	1720	QPSK/180	4	20	20300	1745	5	10	20600	844	21.58	22.83
	CA_5A-66A-66A	5	10	20450	829	QPSK/180	66	20	66536	2120	66	20	67236	2190	23.42	23.91
	CA_2A-4A-12A	2	20	18700	1860	QPSK/180	4	20	20300	1745	12	10	23130	711	22.18	22.89
	CA_2A-5B	2	20	18700	1860	QPSK/180	5	10	20476	831.6	5	10	20575	841.5	22.24	22.89
	CA_2A-12A-12A	2	20	18700	1860	QPSK/180	12	10	23060	704	12	10	23130	711	22.09	22.89
	CA_2A-12A-66A	2	20	18700	1860	QPSK/180	12	10	23130	711	66	20	67236	2190	22.12	22.89
	CA_4A-12A-12A	4	20	20050	1720	QPSK/180	12	10	23060	704	12	10	23130	711	22.07	22.83
	CA_12A-66A-66A	12	10	23060	704	QPSK/180	66	20	66536	2120	66	20	67236	2190	23.1	23.97

4CC LTE Downlink																				
Configure	CA Configuration	PCC				SCC1				SCC2				SCC3				Power		
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band & Inter-band	CA_2A-2A-4A-4A	2	20	18700	1860	QPSK/180	2	20	1100	1980	4	20	2050	2120	4	20	2300	2145	22.32	22.89
	CA_2A-2A-4A-5A	2	20	18700	1860	QPSK/180	2	20	1100	1980	4	20	2050	2120	5	10	2600	889	22.29	22.89
	CA_2A-2A-5A-66A	2	20	18700	1860	QPSK/180	2	20	1100	1980	5	10	2600	889	66	20	67236	2190	22.31	22.89
	CA_2A-2A-13A-66A	2	20	18700	1860	QPSK/180	2	20	1100	1980	13	10	5230	751	66	20	67236	2190	22.33	22.89
	CA_2A-2A-66A-66A	2	20	18700	1860	QPSK/180	2	20	1100	1980	66	20	66536	2120	66	20	67236	2190	22.32	22.89
	CA_2A-2A-66B	2	20	18700	1860	QPSK/180	2	20	1100	1980	66	10	132373	1750.1	66	10	132472	1760	22.27	22.89
	CA_2A-4A-4A-5A	2	20	18700	1860	QPSK/180	4	20	2175	2132.5	4	20	2175	2132.5	5	10	2600	889	22.29	22.89
	CA_2A-4A-5B	2	20	18700	1860	QPSK/180	4	20	2175	2132.5	5	10	20476	831.6	5	10	20575	841.5	22.3	22.89
	CA_2A-5A-66A-66A	2	20	18700	1860	QPSK/180	5	10	2600	889	66	20	66536	2120	66	20	67236	2190	22.36	22.89
	CA_2A-5A-66B	2	20	18700	1860	QPSK/180	5	10	2600	889	66	10	132373	1750.1	66	10	132472	1760	22.35	22.89
	CA_2A-66A-66A-66A	2	20	18700	1860	QPSK/180	66	20	132072	1720	66	20	66886	2155	66	20	67236	2190	22.37	22.89
	CA_5A-6A-66A-66A	5	10	20450	829	QPSK/180	5	10	20600	844	66	20	66536	2120	66	20	67236	2190	23.42	23.91
	CA_2A-2A-4A-12A	2	20	18700	1860	QPSK/180	2	20	1100	1980	4	20	20300	1745	12	10	23130	711	22.28	22.89
	CA_2A-2A-12A-12A	2	20	18700	1860	QPSK/180	2	20	1100	1980	12	10	23060	704	12	10	23130	711	22.34	22.89
	CA_2A-2A-12A-66A	2	20	18700	1860	QPSK/180	2	20	1100	1980	12	10	23130	711	66	20	67236	2190	22.25	22.89
	CA_2A-4A-4A-12A	2	20	18700	1860	QPSK/180	4	20	2175	2132.5	4	20	2175	2132.5	12	10	23130	711	22.27	22.89
	CA_2A-12A-66A-66A	2	20	18700	1860	QPSK/180	12	10	23130	711	66	20	66536	2120	66	20	67236	2190	22.26	22.89
	CA_2A-66A-66B	2	20	18700	1860	QPSK/180	66	20	132072	1720	66	10	132373	1750.1	66	10	132472	1760	22.27	22.89
	CA_4A-4A-12A-12A	4	20	20050	1720	QPSK/180	4	20	20300	1745	12	10	23060	704	12	10	23130	711	21.84	22.83

B5_n2 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	iddle Channel	High Channel	Tune-up
Channel				372000	376000	380000	limit
Frequency (MHz)				1860	1880	1900	(dBm)
20	DFT-s-OFDM PI/2 BPSK	1	1	23.25	23.18	23.01	24.8
20		1	53	23.28	23.18	23.05	
20		1	104	23.24	23.14	23.04	
20		50	1	23.27	23.27	23.07	24.8
20		50	25	23.34	23.25	23.06	
20		50	50	23.36	23.12	22.98	
20	DFT-s-OFDM QPSK	100	0	23.31	23.26	23.06	24.8
20		1	1	23.49	23.57	23.54	
20		1	53	23.39	23.47	23.41	
20		1	104	23.27	23.24	23.18	24.8
20		50	1	23.31	23.41	23.32	
20		50	25	23.36	23.26	23.21	
20	DFT-s-OFDM 16QAM	50	50	23.25	23.14	23.09	24.8
20		100	0	23.32	23.24	23.13	
20	DFT-s-OFDM 64QAM	1	1	23.52	23.50	23.34	24.8
20	DFT-s-OFDM 256QAM	1	1	22.00	21.92	21.76	22.8
20	CP-OFDM QPSK	1	1	19.85	19.79	19.57	20.8
20	CP-OFDM 16QAM	1	1	22.98	22.86	22.70	23.8
20	CP-OFDM 64QAM	1	1	22.30	22.21	22.02	22.8
20	CP-OFDM 256QAM	1	1	20.96	20.81	20.63	21.8
20	CP-OFDM 256QAM	1	1	17.92	17.81	17.64	18.8
Channel				371500	376000	380500	Tune-up
Frequency (MHz)				1857.5	1880	1902.5	limit
15	DFT-s-OFDM QPSK	1	1	23.33	23.23	23.05	24.8
Channel				371000	376000	381000	Tune-up
Frequency (MHz)				1855	1880	1905	limit
10	DFT-s-OFDM QPSK	1	1	23.49	23.24	23.07	24.8
Channel				370500	376000	381500	Tune-up
Frequency (MHz)				1852.5	1880	1907.5	limit
5	DFT-s-OFDM QPSK	1	1	23.46	23.28	23.18	24.8

B13_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	23.30	23.22	23.05	24.8
20		1	53	23.29	23.23	22.97	
20		1	104	23.28	23.09	22.96	
20		50	1	23.33	23.25	23.04	24.8
20	DFT-s-OFDM QPSK	50	25	23.39	23.26	23.12	
20		50	50	23.33	23.16	23.05	
20		100	0	23.37	23.21	23.06	
20		1	1	23.40	23.55	23.29	24.8
20	DFT-s-OFDM 16QAM	1	53	23.20	23.33	23.21	
20		1	104	23.19	23.19	23.15	
20		50	1	23.31	23.40	23.25	24.8
20		50	25	23.39	23.20	23.15	
20	DFT-s-OFDM 64QAM	50	50	23.32	23.20	23.09	
20		100	0	23.37	23.21	23.12	
20	DFT-s-OFDM 256QAM	1	1	23.46	23.51	23.38	24.8
20	CP-OFDM QPSK	1	1	21.98	21.96	21.67	22.8
20	CP-OFDM 16QAM	1	1	19.87	19.86	19.55	20.8
20	CP-OFDM 64QAM	1	1	22.90	22.87	22.61	23.8
20	CP-OFDM 256QAM	1	1	22.30	22.39	21.99	22.8
20		1	1	20.90	20.85	20.56	21.8
20		1	1	17.86	17.85	17.57	18.8
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.40	23.21	23.00	24.8
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	23.41	23.31	23.12	24.8
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	23.38	23.24	23.10	24.8

B66_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	23.42	23.40	23.32	24.8
20		1	53	23.43	23.36	23.38	
20		1	104	23.47	23.43	23.43	
20		50	1	23.10	23.06	23.00	24.8
20	DFT-s-OFDM QPSK	50	25	23.51	23.41	23.42	
20		50	50	23.13	23.02	23.03	
20		100	0	23.15	23.07	23.05	
20		1	1	23.48	23.56	23.46	24.8
20	DFT-s-OFDM 16QAM	1	53	23.48	23.42	23.41	
20		1	104	23.46	23.39	23.44	
20		50	1	23.40	23.40	23.35	24.8
20		50	25	23.35	23.30	23.36	
20	DFT-s-OFDM 64QAM	50	50	22.52	22.51	22.56	
20		100	0	22.63	22.55	22.54	
20	DFT-s-OFDM 256QAM	1	1	22.86	22.66	22.77	23.8
20	CP-OFDM QPSK	1	1	21.26	21.22	21.13	22.8
20	CP-OFDM 16QAM	1	1	19.21	19.10	19.04	19.8
20	CP-OFDM 64QAM	1	1	22.06	22.14	22.05	22.8
20	CP-OFDM 256QAM	1	1	21.62	21.60	21.52	22.8
20		1	1	20.12	20.10	20.02	20.8
20		1	1	17.25	17.11	17.10	17.8
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.48	23.45	23.44	24.8
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	23.47	23.54	23.53	24.8
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	23.54	23.51	23.52	24.8

B2_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	23.41	23.36	23.29	24.8
20		1	53	23.32	23.41	23.45	
20		1	104	23.31	23.22	23.29	
20		50	1	23.36	23.41	23.35	24.8
20	DFT-s-OFDM QPSK	50	25	23.40	23.39	23.50	
20		50	50	23.41	23.37	23.39	
20		100	0	23.39	23.37	23.47	
20	DFT-s-OFDM 16QAM	1	1	23.54	23.63	23.53	24.8
20		1	53	23.39	23.47	23.46	
20		1	104	23.35	23.33	23.19	
20		50	1	23.33	23.49	23.35	24.8
20	DFT-s-OFDM 64QAM	50	25	23.36	23.40	23.48	
20		50	50	23.40	23.37	23.34	
20		100	0	23.38	23.34	23.47	
20	DFT-s-OFDM 256QAM	1	1	23.61	23.55	23.58	24.8
20	CP-OFDM QPSK	1	1	22.03	22.09	22.08	22.8
20	CP-OFDM 16QAM	1	1	19.87	19.92	19.88	20.8
20	CP-OFDM 64QAM	1	1	22.92	22.98	22.96	23.8
20	CP-OFDM 256QAM	1	1	22.26	22.28	22.28	22.8
20		1	1	21.07	20.99	20.93	21.8
20		1	1	17.92	17.96	17.88	18.8
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	23.43	23.40	23.47	24.8
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	(dBm)
10	DFT-s-OFDM QPSK	1	1	23.38	23.43	23.48	24.8
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	23.54	23.41	23.42	24.8

B66_n5 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	24.8
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.53	23.58	23.51	24.8
20		1	53	23.57	23.58	23.66	
20		1	104	23.62	23.53	23.52	
20		50	1	23.67	23.66	23.67	24.8
20		50	25	23.71	23.66	23.67	
20		50	50	23.64	23.72	23.64	
20		100	0	23.72	23.68	23.64	
20	DFT-s-OFDM QPSK	1	1	23.60	23.82	23.55	24.8
20		1	53	23.61	23.60	23.71	
20		1	104	23.54	23.57	23.56	
20		50	1	23.54	23.61	23.55	24.8
20		50	25	23.57	23.54	23.61	
20		50	50	23.61	23.59	23.61	
20		100	0	23.59	23.55	23.54	
20	DFT-s-OFDM 16QAM	1	1	23.81	23.78	23.75	24.8
20	DFT-s-OFDM 64QAM	1	1	22.25	22.32	22.28	22.8
20	DFT-s-OFDM 256QAM	1	1	20.22	20.25	20.16	20.8
20	CP-OFDM QPSK	1	1	23.15	23.20	23.20	23.8
20	CP-OFDM 16QAM	1	1	22.51	22.53	22.47	23.8
20	CP-OFDM 64QAM	1	1	21.19	21.22	21.16	21.8
20	CP-OFDM 256QAM	1	1	18.22	18.28	18.18	18.8
Channel				166300	167300	168300	24.8
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	23.58	23.57	23.56	24.8
Channel				165800	167300	168800	24.8
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.42	23.35	23.43	24.8
Channel				165300	167300	169300	24.8
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	23.49	23.44	23.41	24.8

B2_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	23.87	23.82	23.71	24.8
30		1	80	23.88	23.80	23.52	
30		1	158	23.77	23.54	23.52	
30		80	1	23.67	23.56	23.17	24.8
30		80	40	23.83	23.76	23.57	
30		80	80	23.53	23.33	23.32	
30		160	0	23.55	23.56	23.20	
30	DFT-s-OFDM QPSK	1	1	23.87	23.92	23.70	24.8
30		1	80	23.85	23.72	23.51	
30		1	158	23.47	23.50	23.44	
30		80	1	23.80	23.83	23.68	24.8
30		80	40	23.82	23.78	23.57	
30		80	80	22.59	22.81	22.67	
30		160	0	23.15	22.91	22.78	
30	DFT-s-OFDM 16QAM	1	1	23.32	23.22	23.06	24.8
30	DFT-s-OFDM 64QAM	1	1	20.89	21.43	21.33	22.8
30	DFT-s-OFDM 256QAM	1	1	19.54	19.37	19.38	20.8
30	CP-OFDM QPSK	1	1	22.57	22.36	22.24	23.8
30	CP-OFDM 16QAM	1	1	22.12	21.81	21.72	22.8
30	CP-OFDM 64QAM	1	1	20.59	20.40	20.35	21.8
30	CP-OFDM 256QAM	1	1	17.62	17.41	17.35	18.8
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	23.89	23.88	23.56	24.8
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	23.83	23.86	23.63	24.8
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.70	23.87	23.76	24.8
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	23.86	23.84	23.69	24.8

B5_n66 (PC3)

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				345000	349000	353000	24.8
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	23.21	23.24	23.12	24.8
30		1	80	23.26	23.18	23.15	
30		1	158	23.28	23.03	23.21	
30		80	1	23.39	23.27	23.12	24.8
30		80	40	23.33	23.15	23.22	
30		80	80	23.31	23.22	23.30	
30		160	0	23.37	23.25	23.31	
30	DFT-s-OFDM QPSK	1	1	23.31	23.56	23.40	24.8
30		1	80	23.34	23.37	23.23	
30		1	158	23.33	23.30	23.22	
30		80	1	23.28	23.39	23.18	24.8
30		80	40	23.34	23.21	23.23	
30		80	80	23.37	23.25	23.30	
30		160	0	23.37	23.25	23.26	
30	DFT-s-OFDM 16QAM	1	1	23.46	23.48	23.45	24.8
30	DFT-s-OFDM 64QAM	1	1	21.97	22.00	21.92	22.8
30	DFT-s-OFDM 256QAM	1	1	19.92	19.88	19.76	20.8
30	CP-OFDM QPSK	1	1	22.85	22.91	22.77	23.8
30	CP-OFDM 16QAM	1	1	22.24	22.27	22.21	22.8
30	CP-OFDM 64QAM	1	1	20.89	20.90	20.80	21.8
30	CP-OFDM 256QAM	1	1	17.82	17.85	17.75	18.8
Channel				344000	349000	354000	24.8
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	23.27	23.08	22.91	24.8
Channel				343500	349000	354500	24.8
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	23.23	23.29	23.24	24.8
Channel				343000	349000	355000	24.8
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.42	23.31	23.26	24.8
Channel				342500	349000	355500	24.8
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	23.35	23.33	23.22	24.8

B13_n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				345000	349000	353000	24.8
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	23.26	23.29	23.21	24.8
30		1	80	23.32	23.25	23.19	
30		1	158	23.30	23.11	23.16	
30		80	1	23.33	23.27	23.24	24.8
30		80	40	23.37	23.20	23.25	
30		80	80	23.38	23.30	23.31	
30		160	0	23.45	23.24	23.34	
30	DFT-s-OFDM QPSK	1	1	23.35	23.58	23.40	24.8
30		1	80	23.40	23.38	23.23	
30		1	158	23.26	23.34	23.26	
30		80	1	23.36	23.51	23.43	24.8
30		80	40	23.41	23.30	23.29	
30		80	80	23.42	23.26	23.33	
30		160	0	23.48	23.27	23.27	
30	DFT-s-OFDM 16QAM	1	1	23.53	23.56	23.49	24.8
30	DFT-s-OFDM 64QAM	1	1	22.02	22.02	21.93	22.8
30	DFT-s-OFDM 256QAM	1	1	19.99	19.97	19.85	20.8
30	CP-OFDM QPSK	1	1	22.93	22.95	22.83	23.8
30	CP-OFDM 16QAM	1	1	22.26	22.23	22.19	22.8
30	CP-OFDM 64QAM	1	1	20.96	20.93	20.85	21.8
30	CP-OFDM 256QAM	1	1	17.90	17.92	17.83	18.8
Channel				344000	349000	354000	24.8
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	23.08	23.25	23.21	24.8
Channel				343500	349000	354500	24.8
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	23.32	23.22	23.19	24.8
Channel				343000	349000	355000	24.8
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.44	23.34	23.35	24.8
Channel				342500	349000	355500	24.8
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	23.44	23.29	23.32	24.8

B5_n77(3450-3550MHz) (PC2)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					633334		
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		26.56		27.8
100		1	136		26.17		
100		1	271		26.04		
100		135	1		25.92		27.8
100		135	67		26.28		
100		135	136		25.47		
100		270	0		25.84		
100	DFT-s-OFDM QPSK	1	1		26.63		27.8
100		1	136		26.19		
100		1	271		25.95		
100		135	1		26.50		27.8
100		135	67		26.15		
100		135	136		25.10		
100		270	0		25.09		
100	DFT-s-OFDM 16QAM	1	1		24.69		25.8
100	DFT-s-OFDM 64QAM	1	1		23.59		24.8
100	DFT-s-OFDM 256QAM	1	1		21.57		22.8
100	CP-OFDM QPSK	1	1		24.05		24.8
100	CP-OFDM 16QAM	1	1		23.63		24.8
100	CP-OFDM 64QAM	1	1		23.15		23.8
100	CP-OFDM 256QAM	1	1		19.92		20.8
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	26.29	26.24	26.20	27.8
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	26.05	25.98	26.12	27.8
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	26.42	26.15	26.17	27.8
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	26.47	26.32	26.21	27.8
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	26.37	26.24	26.04	27.8

B5_n77(3700-3980MHz) (PC2)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	26.48	26.08	26.26	27.8
100		1	136	25.94	25.12	25.16	
100		1	271	25.80	25.98	25.11	
100		135	1	25.91	25.58	25.66	27.8
100		135	67	25.89	25.32	25.94	
100		135	136	25.25	25.46	25.58	
100		270	0	25.59	25.76	25.51	
100	DFT-s-OFDM QPSK	1	1	26.44	26.53	26.23	27.8
100		1	136	25.90	26.10	25.01	
100		1	271	25.59	25.69	25.03	
100		135	1	25.93	26.25	25.81	27.8
100		135	67	25.96	25.30	24.96	
100		135	136	24.81	24.51	24.05	
100		270	0	25.11	24.94	24.97	
100	DFT-s-OFDM 16QAM	1	1	25.15	24.95	24.17	26.8
100	DFT-s-OFDM 64QAM	1	1	23.63	22.47	22.69	25.8
100	DFT-s-OFDM 256QAM	1	1	21.50	20.56	20.73	22.8
100	CP-OFDM QPSK	1	1	24.59	23.39	23.58	25
100	CP-OFDM 16QAM	1	1	24.11	23.94	23.17	24
100	CP-OFDM 64QAM	1	1	22.71	22.52	22.69	23
100	CP-OFDM 256QAM	1	1	19.57	19.55	19.75	19
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	26.07	25.57	25.64	27.8
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	26.15	25.23	25.97	27.8
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	26.07	25.40	25.80	27.8
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	26.38	25.41	25.95	27.8
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	26.31	25.54	25.66	27.8



2.4GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 8	802.11a 1Mbps	CH 1	2412	16.99	17.00	98.55
		CH 5	2437	17.00	17.00	98.55
		CH 11	2462	16.18	17.00	98.55
	802.11g 6Mbps	CH 1	2412	16.86	16.50	98.35
		CH 5	2437	16.18	17.00	98.55
		CH 11	2462	15.38	16.00	98.55
	802.11a+HT20 MCS0	CH 1	2412	15.14	16.00	98.23
		CH 5	2437	15.39	16.00	98.23
		CH 11	2462	14.44	16.00	98.23
	802.11a+HT40 MCS0	CH 5	2437	15.44	16.00	94.90
		CH 9	2457	15.17	16.00	94.90
		CH 9	2457	15.00	15.00	94.90

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 8	802.11a 6Mbps	CH 36	5180	17.45	18.00	98.54
		CH 44	5220	17.63	18.50	98.54
		CH 48	5240	16.86	18.00	98.54
	802.11a+HT20 MCS0	CH 36	5180	16.83	17.50	98.44
		CH 44	5220	16.02	17.50	98.44
		CH 48	5240	16.57	17.50	98.44
	802.11a+HT40 MCS0	CH 36	5180	17.16	18.00	98.88
		CH 48	5240	17.11	18.00	98.88
		CH 48	5240	16.93	18.00	98.88
	802.11ac+VHT20 MCS0	CH 36	5180	17.15	18.00	98.91
		CH 48	5240	17.12	18.00	98.91
		CH 42	5210	17.03	18.00	98.91

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 8	802.11a 6Mbps	CH 52	5300	16.29	16.00	99.03
		CH 60	5300	14.89	14.50	99.03
		CH 64	5320	14.20	15.00	99.03
	802.11a+HT20 MCS0	CH 52	5300	14.70	14.50	98.96
		CH 60	5300	14.25	14.50	98.96
		CH 64	5320	13.56	14.50	98.96
	802.11a+HT40 MCS0	CH 52	5310	14.36	14.50	98.88
		CH 62	5310	14.12	15.00	98.88
		CH 52	5300	14.18	15.00	98.88
	802.11ac+VHT20 MCS0	CH 52	5300	13.98	14.50	97.94
		CH 64	5320	13.96	14.50	97.94
		CH 54	5270	14.28	15.00	98.92

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 8	802.11a 6Mbps	CH 100	5800	15.07	16.00	99.03
		CH 120	5800	15.17	16.00	99.03
		CH 144	5720	16.66	16.50	99.03
	802.11a+HT20 MCS0	CH 100	5800	14.52	15.00	98.96
		CH 120	5800	14.06	15.00	98.96
		CH 144	5720	15.05	16.00	98.96
	802.11a+HT40 MCS0	CH 102	5810	15.01	16.00	98.88
		CH 128	5800	15.08	16.00	98.88
		CH 142	5710	14.77	15.00	98.88
	802.11ac+VHT20 MCS0	CH 100	5800	14.58	15.00	97.94
		CH 144	5720	14.31	15.00	97.94
		CH 102	5810	15.01	16.00	98.91

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 8	802.11a 6Mbps	CH 140	5740	16.44	16.00	98.54
		CH 157	5780	14.80	15.50	98.54
		CH 160	5820	14.80	15.50	98.54
	802.11a+HT20 MCS0	CH 140	5740	14.80	15.50	98.44
		CH 157	5780	14.17	15.00	98.44
		CH 160	5820	14.17	15.00	98.44
	802.11a+HT40 MCS0	CH 151	5795	15.39	16.00	98.88
		CH 158	5780	14.53	15.00	98.88
		CH 146	5740	14.62	15.00	98.45
	802.11ac+VHT20 MCS0	CH 157	5780	14.15	15.00	98.45
		CH 160	5820	14.10	15.00	98.45
		CH 151	5795	15.29	16.00	98.91

Mode	Channel	Frequency (MHz)	Average power (dBm)
BLE	CH 30	2452	3.20
	CH 39	2461	4.09
	CH 16	2460	4.71
	Turn-up Limit	5	0
Power Setting		Default	Default
Duty Cycle %		16.13	37.1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-up Limit	Power Setting	Turn-up Limit	Power Setting	Turn-up Limit
BT / EDR	CH 10	2402	8.94	15.01	7.01	8.00	6.72	7.00
	CH 39	2461	10.84	15.00	7.50	8.50	7.07	8.50
	CH 16	2460	10.74	15.00	8.04	9.00	7.86	8.50
	Power Setting	0	5	5	76.98	76.98	76.98	76.98

2.4GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 9	802.11a 1Mbps	CH 1	2412	17.07	18.00	98.55
		CH 5	2437	16.46	17.00	98.55
		CH 11	2462	16.84	17.00	98.55
	802.11g 6Mbps	CH 1	2412	16.32	16.50	98.35
		CH 5	2437	16.26	16.50	98.35
		CH 11	2462	16.04	16.50	98.35
	802.11a+HT20 MCS0	CH 1	2412	15.30	16.00	98.23
		CH 5	2437	15.62	16.00	98.23
		CH 11	2462	15.48	16.00	98.23
	802.11a+HT40 MCS0	CH 5	2437	15.52	16.00	94.90
		CH 9	2457	15.54	16.00	94.90
		CH 9	2457	15.54	16.00	94.90

5.0GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 9	802.11a 6Mbps	CH 36	5180	16.84	17.50	98.54
		CH 44	5220	16.29	17.00	98.54
		CH 48	5240	16.31	17.00	98.54
	802.11a+HT20 MCS0	CH 36	5180	15.84	16.50	98.44
		CH 44	5220	15.85	16.50	98.44
		CH 48	5240	15.77	16.50	98.44
	802.11a+HT40 MCS0	CH 36	5180	16.27	18.00	98.88
		CH 48	5240	16.21	18.00	98.88
		CH 36	5180	15.85	18.00	98.88
	802.11ac+VHT20 MCS0	CH 36	5180	15.61	18.00	98.45
		CH 48	5240	15.69	18.00	98.45
		CH 42	5210	16.24	18.00	98.91

5.0GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 9	802.11a 6Mbps	CH 52	5300	14.18	15.00	99.04
		CH 60	5300	14.15	15.00	99.04
		CH 64	5320	14.39	15.00	99.04
	802.11a+HT20 MCS0	CH 52	5300	13.50	14.50	98.96
		CH 60	5300	13.49	14.50	98.96
		CH 64	5320	13.76	14.50	98.96
	802.11a+HT40 MCS0	CH 54	5270	14.46	15.00	98.88
		CH 62	5310	14.46	15.00	98.88
		CH 52	5300	13.86	14.50	98.88
	802.11ac+VHT20 MCS0	CH 52	5300	13.86	14.50	98.96
		CH 64	5320	13.96	14.50	98.96
		CH 54	5270	14.46	15.00	98.92

5.0GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 9	802.11a 6Mbps	CH 100	5800	14.18	15.00	99.04
		CH 120	5800	15.07	16.00	99.04
		CH 144	5720	16.48	16.50	99.04
	802.11a+HT20 MCS0	CH 100	5800	13.16	14.50	98.96
		CH 120	5800	14.52	15.00	98.96
		CH 144	5720	14.88	15.00	98.96
	802.11a+HT40 MCS0	CH 102	5810	14.18	16.00	98.88
		CH 128	5800	14.50	16.00	98.88
		CH 142	5710	14.43	15.00	98.88
	802.11ac+VHT20 MCS0	CH 100	5800	13.91	14.50	97.94
		CH 144	5720	14.36	15.00	97.94
		CH 102	5810	14.21	16.00	98.91

5.0GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 9	802.11a 6Mbps	CH 140	5740	15.38	16.00	98.54
		CH 157	5780	15.27	15.50	98.54
		CH 160	5820	14.79	15.50	98.54
	802.11a+HT20 MCS0	CH 140	5740	15.03	15.50	98.44
		CH 157	5780	14.77	15.00	98.44
		CH 160	5820	14.19	14.50	98.44
	802.11a+HT40 MCS0	CH 151	5795	15.80	16.00	98.88
		CH 158	5780	14.35	15.00	98.88
		CH 140	5740	14.36	15.00	98.45
	802.11ac+VHT20 MCS0	CH 157	5780	14.73	15.00	98.45
		CH 160	5820	14.11	14.50	98.45
		CH 151	5795	15.81	16.00	98.91

5.0GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5.0GHz WLAN ANT 9	802.11a 6Mbps	CH 140	5740	15.38	16.00	98.54
		CH 157	5780	15.27	15.50	98.54
		CH 160	5820	14.79	15.50	98.54
	802.11a+HT20 MCS0	CH 140	5740	15.03	15.50	98.44
		CH 157	5780	14.77	15.00	98.44
		CH 160	5820	14.19	14.50	98.44
	802.11a+HT40 MCS0	CH 151	5795	15.80	16.00	98.88
		CH 158	5780	14.35	15.00	98.88
		CH 140	5740	14.36	15.00	98.45
	802.11ac+VHT20 MCS0	CH 157	5780	14.73	15.00	98.45
		CH 160	5820	14.11	14.50	98.45
		CH 151	5795	15.81	16.00	98.91

5.0GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %



Reduced Power Level 1 for ANT 3

Band 7 ANT 3 (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	18.8
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.93	18.04	17.99	17.8
20	QPSK	1	49	17.87	18.00	17.94	
20	QPSK	1	99	17.84	17.88	17.81	
20	QPSK	50	0	16.97	17.06	17.00	
20	QPSK	50	24	16.98	17.00	16.94	17.8
20	QPSK	50	50	16.79	16.95	16.77	
20	QPSK	100	0	16.79	16.88	16.95	
20	16QAM	1	0	17.08	17.24	17.15	
20	16QAM	1	49	17.07	17.23	17.13	17.8
20	16QAM	1	99	17.07	17.14	17.13	
20	16QAM	50	0	15.97	16.19	15.91	
20	16QAM	50	24	15.95	15.93	16.00	
20	16QAM	50	50	15.88	15.99	15.93	16.8
20	16QAM	100	0	15.64	15.97	15.91	
20	64QAM	1	0	16.13	16.29	16.03	
20	64QAM	1	49	16.01	15.93	16.12	
20	64QAM	1	99	15.80	15.97	16.07	15.8
20	64QAM	50	0	14.98	14.94	15.04	
20	64QAM	50	24	14.88	14.94	14.78	
20	64QAM	50	50	14.84	14.81	14.79	
20	64QAM	100	0	14.90	15.08	14.89	
Channel				20825	21100	21375	18.8
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.97	18.00	17.99	17.8
15	QPSK	1	37	17.96	17.87	17.91	
15	QPSK	1	74	17.84	17.89	17.81	
15	QPSK	36	0	16.96	16.99	16.92	
15	QPSK	36	20	16.94	16.93	16.77	17.8
15	QPSK	36	39	16.85	16.90	16.93	
15	QPSK	75	0	16.77	16.90	16.83	
15	16QAM	1	0	17.22	17.29	17.20	
15	16QAM	1	37	17.19	17.25	17.18	17.8
15	16QAM	1	74	17.07	17.07	17.04	
15	16QAM	36	0	16.03	16.05	15.96	
15	16QAM	36	20	15.83	15.73	15.85	
15	16QAM	36	39	15.90	15.79	15.91	16.8
15	16QAM	75	0	15.66	15.97	15.91	
15	64QAM	1	0	16.10	16.20	15.99	
15	64QAM	1	37	16.03	15.95	16.16	
15	64QAM	1	74	15.98	15.90	16.17	15.8
15	64QAM	36	0	14.98	15.00	14.93	
15	64QAM	36	20	14.90	14.90	14.78	
15	64QAM	36	39	14.96	14.89	14.79	
15	64QAM	75	0	14.76	15.07	15.00	
Channel				20800	21100	21400	18.8
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	17.86	18.01	17.95	17.8
10	QPSK	1	25	17.92	17.84	17.91	
10	QPSK	1	49	17.80	17.88	17.86	
10	QPSK	25	0	17.03	17.08	17.02	
10	QPSK	25	12	16.94	16.88	16.96	17.8
10	QPSK	25	25	16.91	16.90	16.89	
10	QPSK	50	0	16.84	16.82	16.98	
10	16QAM	1	0	17.16	17.26	17.17	
10	16QAM	1	25	17.08	17.08	17.06	17.8
10	16QAM	1	49	17.14	17.25	17.15	
10	16QAM	25	0	15.98	16.08	15.98	
10	16QAM	25	12	15.98	15.74	15.83	
10	16QAM	25	25	15.84	15.82	15.96	16.8
10	16QAM	50	0	15.63	15.92	15.84	
10	64QAM	1	0	16.02	16.17	16.13	
10	64QAM	1	25	15.95	15.80	16.16	
10	64QAM	1	49	16.05	15.82	16.11	15.8
10	64QAM	25	0	14.85	14.92	15.08	
10	64QAM	25	12	14.90	14.98	14.87	
10	64QAM	25	25	14.71	14.84	14.79	
10	64QAM	50	0	14.76	14.92	14.86	
Channel				20775	21100	21425	18.8
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	17.97	17.99	17.91	17.8
5	QPSK	1	12	17.92	17.85	17.92	
5	QPSK	1	24	17.90	17.87	17.84	
5	QPSK	12	0	16.87	17.02	16.93	
5	QPSK	12	7	16.93	16.79	16.77	17.8
5	QPSK	12	13	16.87	16.95	16.79	
5	QPSK	25	0	16.95	16.89	16.96	
5	16QAM	1	0	17.22	17.30	17.15	
5	16QAM	1	12	17.16	17.20	17.03	17.8
5	16QAM	1	24	17.05	17.06	17.05	
5	16QAM	12	0	15.99	16.01	15.87	
5	16QAM	12	7	15.79	15.98	15.95	
5	16QAM	12	13	15.87	15.88	15.93	16.8
5	16QAM	25	0	15.83	16.01	15.87	
5	64QAM	1	0	16.11	16.17	16.00	
5	64QAM	1	12	15.82	16.00	16.09	
5	64QAM	1	24	15.80	15.99	15.95	15.8
5	64QAM	12	0	15.03	15.05	14.96	
5	64QAM	12	7	14.87	14.89	14.82	
5	64QAM	12	13	14.77	14.91	14.87	
5	64QAM	25	0	14.94	14.91	14.89	

Reduced Power Level 2 for ANT 1 & ANT3 & ANT 7 & ANT 8 & ANT 9 & ANT 10

Band 2 ANT 7(1900MHz Band) (dBm) Part 24F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1880	1890	1900	
20	QPSK	1	0	19.85	19.80	19.82	20.8
20	QPSK	1	49	19.86	19.80	19.66	
20	QPSK	1	99	19.71	19.76	19.75	
20	QPSK	50	0	18.74	18.84	18.76	19.8
20	QPSK	50	24	18.71	18.69	18.75	
20	QPSK	50	50	18.64	18.64	18.65	
20	QPSK	100	0	18.67	18.69	18.64	19.8
20	16QAM	1	0	18.87	19.03	18.92	
20	16QAM	1	49	19.00	19.01	18.80	
20	16QAM	1	99	18.89	18.96	18.96	18.8
20	16QAM	50	0	17.78	17.82	17.65	
20	16QAM	50	24	17.62	17.77	17.66	
20	16QAM	50	50	17.70	17.67	17.79	18.8
20	16QAM	100	0	17.54	17.68	17.72	
20	64QAM	1	0	17.72	17.97	17.89	
20	64QAM	1	49	17.69	17.62	17.86	18.8
20	64QAM	1	99	17.81	17.82	17.90	
20	64QAM	50	0	16.78	16.85	16.77	
20	64QAM	50	24	16.66	16.72	16.60	17.8
20	64QAM	50	50	16.75	16.62	16.65	
20	64QAM	100	0	16.69	16.81	16.76	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.78	19.86	19.80	20.8
15	QPSK	1	37	19.74	19.85	19.71	
15	QPSK	1	74	19.61	19.80	19.70	
15	QPSK	36	0	18.72	18.95	18.84	19.8
15	QPSK	36	20	18.72	18.68	18.65	
15	QPSK	36	39	18.64	18.63	18.63	
15	QPSK	75	0	18.55	18.74	18.82	19.8
15	16QAM	1	0	19.02	19.03	18.97	
15	16QAM	1	37	18.95	19.00	18.92	
15	16QAM	1	74	18.77	18.95	18.81	18.8
15	16QAM	36	0	17.90	17.92	17.77	
15	16QAM	36	20	17.83	17.71	17.63	
15	16QAM	36	39	17.69	17.77	17.82	18.8
15	16QAM	75	0	17.59	17.71	17.71	
15	64QAM	1	0	17.80	17.87	17.86	
15	64QAM	1	37	17.66	17.82	17.97	18.8
15	64QAM	1	74	17.78	17.74	17.86	
15	64QAM	36	0	16.76	16.90	16.67	
15	64QAM	36	20	16.57	16.88	16.67	17.8
15	64QAM	36	39	16.71	16.60	16.65	
15	64QAM	75	0	16.54	16.64	16.66	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.75	19.84	19.81	20.8
10	QPSK	1	25	19.82	19.74	19.64	
10	QPSK	1	49	19.75	19.75	19.60	
10	QPSK	25	0	18.76	18.85	18.79	19.8
10	QPSK	25	12	18.72	18.79	18.78	
10	QPSK	25	25	18.67	18.67	18.73	
10	QPSK	50	0	18.75	18.65	18.68	19.8
10	16QAM	1	0	18.92	18.98	18.96	
10	16QAM	1	25	18.91	18.96	18.95	
10	16QAM	1	49	18.73	18.86	18.94	18.8
10	16QAM	25	0	17.77	17.91	17.69	
10	16QAM	25	12	17.78	17.70	17.77	
10	16QAM	25	25	17.55	17.73	17.79	18.8
10	16QAM	50	0	17.63	17.77	17.67	
10	64QAM	1	0	17.71	17.95	17.77	
10	64QAM	1	25	17.79	17.75	17.86	18.8
10	64QAM	1	49	17.68	17.60	17.90	
10	64QAM	25	0	16.69	16.86	16.75	
10	64QAM	25	12	16.55	16.72	16.60	17.8
10	64QAM	25	25	16.76	16.54	16.53	
10	64QAM	50	0	16.66	16.86	16.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.75	19.82	19.77	20.8
5	QPSK	1	12	19.75	19.60	19.63	
5	QPSK	1	24	19.54	19.68	19.81	
5	QPSK	12	0	18.68	18.85	18.78	19.8
5	QPSK	12	7	18.79	18.72	18.67	
5	QPSK	12	13	18.65	18.65	18.58	
5	QPSK	25	0	18.60	18.60	18.64	19.8
5	16QAM	1	0	18.82	18.96	18.87	
5	16QAM	1	12	18.92	18.92	18.86	
5	16QAM	1	24	18.96	18.87	18.95	18.8
5	16QAM	12	0	17.76	17.83	17.55	
5	16QAM	12	7	17.60	17.63	17.65	
5	16QAM	12	13	17.59	17.79	17.73	18.8
5	16QAM	25	0	17.44	17.67	17.63	
5	64QAM	1	0	17.78	17.89	17.74	
5	64QAM	1	12	17.82	17.84	17.88	18.8
5	64QAM	1	24	17.82	17.70	17.82	
5	64QAM	12	0	16.69	16.87	16.88	
5	64QAM	12	7	16.70	16.77	16.71	17.8
5	64QAM	12	13	16.70	16.57	16.70	
5	64QAM	25	0	16.57	16.86	16.68	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.69	19.79	19.75	20.8
3	QPSK	1	8	19.77	19.74	19.73	
3	QPSK	1	14	19.64	19.76	19.65	
3	QPSK	8	0	18.72	18.78	18.69	19.8
3	QPSK	8	4	18.74	18.56	18.57	
3	QPSK	8	7	18.68	18.70	18.67	
3	QPSK	15	0	18.72	18.77	18.67	19.8
3	16QAM	1	0	18.88	18.95	18.93	
3	16QAM	1	8	18.98	18.92	18.97	
3	16QAM	1	14	18.77	18.88	18.86	18.8
3	16QAM	8	0	17.82	17.87	17.63	
3	16QAM	8	4	17.60	17.62	17.85	
3	16QAM	8	7	17.52	17.76	17.71	18.8
3	16QAM	15	0	17.62	17.69	17.68	
3	64QAM	1	0	17.80	17.86	17.97	

Band 66 ANT 7 (dBm)_20dB							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	19.87	19.95	19.90	20.8
20	QPSK	1	49	19.84	19.80	19.78	
20	QPSK	1	99	19.73	19.87	19.69	
20	QPSK	50	0	18.86	18.91	18.87	19.8
20	QPSK	50	24	18.73	18.78	18.75	
20	QPSK	50	50	18.63	18.77	18.67	
20	QPSK	100	0	18.66	18.64	18.87	19.8
20	16QAM	1	0	18.85	19.10	18.93	
20	16QAM	1	49	19.03	19.08	18.77	
20	16QAM	1	99	18.97	18.93	18.90	18.8
20	16QAM	50	0	17.86	17.89	17.75	
20	16QAM	50	24	17.79	17.71	17.78	
20	16QAM	50	50	17.66	17.73	17.81	18.8
20	16QAM	100	0	17.75	17.92	17.71	
20	64QAM	1	0	17.91	17.97	17.73	
20	64QAM	1	49	17.72	17.83	17.86	18.8
20	64QAM	1	99	17.83	17.77	17.86	
20	64QAM	50	0	16.70	16.83	16.70	
20	64QAM	50	24	16.74	16.93	16.69	17.8
20	64QAM	50	50	16.65	16.67	16.67	
20	64QAM	100	0	16.60	16.79	16.71	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.81	19.91	19.85	20.8
15	QPSK	1	37	19.87	19.78	19.77	
15	QPSK	1	74	19.77	19.78	19.71	
15	QPSK	36	0	18.83	18.85	18.77	19.8
15	QPSK	36	20	18.87	18.71	18.69	
15	QPSK	36	39	18.80	18.79	18.72	
15	QPSK	75	0	18.70	18.70	18.79	19.8
15	16QAM	1	0	18.95	19.01	19.07	
15	16QAM	1	37	18.95	18.89	18.77	
15	16QAM	1	74	18.84	19.05	18.94	18.8
15	16QAM	36	0	17.77	17.84	17.77	
15	16QAM	36	20	17.60	17.53	17.78	
15	16QAM	36	39	17.69	17.57	17.80	18.8
15	16QAM	75	0	17.60	17.76	17.61	
15	64QAM	1	0	17.79	17.91	17.95	
15	64QAM	1	37	17.77	17.80	17.77	18.8
15	64QAM	1	74	17.80	17.74	17.85	
15	64QAM	36	0	16.71	16.74	16.80	
15	64QAM	36	20	16.65	16.87	16.72	17.8
15	64QAM	36	39	16.73	16.67	16.74	
15	64QAM	75	0	16.75	16.87	16.78	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.78	19.89	19.83	20.8
10	QPSK	1	25	19.68	19.68	19.71	
10	QPSK	1	49	19.68	19.72	19.72	
10	QPSK	25	0	18.78	18.91	18.86	19.8
10	QPSK	25	12	18.86	18.76	18.79	
10	QPSK	25	25	18.76	18.74	18.72	
10	QPSK	50	0	18.78	18.72	18.86	19.8
10	16QAM	1	0	18.99	19.09	18.95	
10	16QAM	1	25	18.81	18.94	18.89	
10	16QAM	1	49	18.80	18.95	18.96	18.8
10	16QAM	25	0	17.89	17.80	17.60	
10	16QAM	25	12	17.69	17.68	17.71	
10	16QAM	25	25	17.61	17.72	17.75	18.8
10	16QAM	50	0	17.57	17.75	17.61	
10	64QAM	1	0	17.92	17.94	17.79	
10	64QAM	1	25	17.65	17.64	17.89	18.8
10	64QAM	1	49	17.82	17.68	17.79	
10	64QAM	25	0	16.79	16.71	16.75	
10	64QAM	25	12	16.68	16.80	16.53	17.8
10	64QAM	25	25	16.71	16.62	16.62	
10	64QAM	50	0	16.59	16.73	16.62	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	19.79	19.86	19.71	20.8
5	QPSK	1	12	19.70	19.71	19.69	
5	QPSK	1	24	19.65	19.67	19.62	
5	QPSK	12	0	18.88	18.92	18.75	19.8
5	QPSK	12	7	18.89	18.70	18.64	
5	QPSK	12	13	18.68	18.80	18.61	
5	QPSK	25	0	18.67	18.77	18.83	19.8
5	16QAM	1	0	18.81	19.02	18.90	
5	16QAM	1	12	19.05	18.96	18.87	
5	16QAM	1	24	18.92	19.04	18.86	18.8
5	16QAM	12	0	17.91	17.79	17.76	
5	16QAM	12	7	17.62	17.85	17.84	
5	16QAM	12	13	17.68	17.77	17.69	18.8
5	16QAM	25	0	17.61	17.72	17.66	
5	64QAM	1	0	17.91	18.07	17.80	
5	64QAM	1	12	17.70	17.78	17.92	18.8
5	64QAM	1	24	17.71	17.72	17.87	
5	64QAM	12	0	16.73	16.75	16.69	
5	64QAM	12	7	16.60	16.80	16.67	17.8
5	64QAM	12	13	16.72	16.64	16.56	
5	64QAM	25	0	16.75	16.81	16.60	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	19.78	19.87	19.75	20.8
3	QPSK	1	8	19.73	19.74	19.77	
3	QPSK	1	14	19.67	19.80	19.62	
3	QPSK	8	0	18.66	18.75	18.73	19.8
3	QPSK	8	4	18.72	18.59	18.68	
3	QPSK	8	7	18.81	18.66	18.59	
3	QPSK	15	0	18.59	18.73	18.65	19.8
3	16QAM	1	0	18.90	19.05	19.04	
3	16QAM	1	8	18.91	19.08	18.88	
3	16QAM	1	14	18.85	18.96	18.99	18.8
3	16QAM	8	0	17.94	17.92	17.69	
3	16QAM	8	4	17.77	17.74	17.72	
3	16QAM	8	7	17.71	17.70	17.79	18.8
3	16QAM	15	0	17.70	17.80	17.65	
3	64QAM	1	0	17.72	18.03	17.88	



3	64QAM	1	8	17.78	17.61	17.84	18.8
3	64QAM	1	14	17.78	17.69	17.87	
3	64QAM	8	0	16.71	16.76	16.73	
3	64QAM	8	4	16.71	16.89	16.64	17.8
3	64QAM	8	7	16.56	16.54	16.56	
3	64QAM	15	0	16.64	16.79	16.59	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.72	19.80	19.74	20.8
1.4	QPSK	1	3	19.66	19.70	19.78	
1.4	QPSK	1	5	19.72	19.73	19.57	
1.4	QPSK	3	0	18.86	18.88	18.80	
1.4	QPSK	3	1	18.83	18.83	18.82	
1.4	QPSK	3	3	18.83	18.85	18.81	
1.4	QPSK	6	0	18.70	18.69	18.73	19.8
1.4	16QAM	1	0	19.05	19.03	18.88	19.8
1.4	16QAM	1	3	18.82	18.99	18.94	
1.4	16QAM	1	5	18.86	18.94	18.85	
1.4	16QAM	3	0	17.83	17.90	17.80	
1.4	16QAM	3	1	17.84	17.87	17.85	
1.4	16QAM	3	3	17.81	17.80	17.83	
1.4	16QAM	6	0	17.47	17.68	17.57	18.8
1.4	64QAM	1	0	17.71	17.90	17.74	18.8
1.4	64QAM	1	3	17.66	17.62	17.82	
1.4	64QAM	1	5	17.72	17.70	17.70	
1.4	64QAM	3	0	16.87	16.94	16.88	
1.4	64QAM	3	1	16.81	16.89	16.86	
1.4	64QAM	3	3	16.85	16.82	16.81	
1.4	64QAM	6	0	16.71	16.79	16.67	17.8

3	64QAM	1	8	17.83	17.83	17.81	18.8
3	64QAM	1	14	17.72	17.72	17.76	
3	64QAM	8	0	16.69	16.70	16.72	
3	64QAM	8	4	16.59	16.77	16.66	17.8
3	64QAM	8	7	16.72	16.60	16.65	
3	64QAM	15	0	16.62	16.78	16.76	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.81	19.86	19.70	20.8
1.4	QPSK	1	3	19.81	19.68	19.69	
1.4	QPSK	1	5	19.55	19.76	19.81	
1.4	QPSK	3	0	18.87	18.88	18.85	
1.4	QPSK	3	1	18.82	18.82	18.80	
1.4	QPSK	3	3	18.80	18.81	18.82	
1.4	QPSK	6	0	18.70	18.74	18.66	19.8
1.4	16QAM	1	0	18.94	19.03	18.85	19.8
1.4	16QAM	1	3	18.92	18.97	18.75	
1.4	16QAM	1	5	18.84	18.99	18.86	
1.4	16QAM	3	0	17.73	17.97	17.67	
1.4	16QAM	3	1	17.82	17.68	17.80	
1.4	16QAM	3	3	17.62	17.74	17.68	
1.4	16QAM	6	0	17.69	17.80	17.61	18.8
1.4	64QAM	1	0	17.71	17.90	17.85	18.8
1.4	64QAM	1	3	17.77	17.73	17.75	
1.4	64QAM	1	5	17.68	17.71	17.93	
1.4	64QAM	3	0	16.61	16.73	16.79	
1.4	64QAM	3	1	16.59	16.82	16.69	
1.4	64QAM	3	3	16.69	16.61	16.56	
1.4	64QAM	6	0	16.62	16.71	16.79	17.8

B5_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	19.75	19.68	19.51	20.8
20		1	53	19.78	19.68	19.55	
20		1	104	19.74	19.64	19.54	
20		50	1	19.77	19.77	19.57	20.8
20	DFT-s-OFDM QPSK	50	25	19.84	19.75	19.56	
20		50	50	19.86	19.62	19.48	
20		100	0	19.81	19.76	19.56	
20	DFT-s-OFDM 16QAM	1	1	19.99	20.07	20.04	20.8
20		1	53	19.89	19.97	19.91	
20		1	104	19.77	19.74	19.68	
20		50	1	19.81	19.91	19.82	20.8
20	DFT-s-OFDM 64QAM	50	25	19.86	19.76	19.71	
20		50	50	19.75	19.64	19.59	
20		100	0	19.82	19.74	19.63	
20	DFT-s-OFDM 256QAM	1	1	20.02	20.00	19.84	20.80
20	CP-OFDM QPSK	1	1	18.50	18.42	18.26	19.80
20	CP-OFDM 16QAM	1	1	16.35	16.29	16.07	16.80
20	CP-OFDM 64QAM	1	1	19.48	19.36	19.20	19.80
20	CP-OFDM 256QAM	1	1	18.80	18.71	18.52	19.80
20		1	1	17.46	17.31	17.13	17.80
20		1	1	14.42	14.31	14.14	14.80
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.83	19.73	19.55	20.80
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.99	19.74	19.57	20.80
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.96	19.78	19.68	20.80

B13_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	19.80	19.72	19.55	20.8
20		1	53	19.79	19.73	19.47	
20		1	104	19.78	19.59	19.46	
20		50	1	19.83	19.75	19.54	20.8
20	DFT-s-OFDM QPSK	50	25	19.89	19.76	19.62	
20		50	50	19.83	19.66	19.55	
20		100	0	19.87	19.71	19.56	
20		1	1	19.90	20.05	19.79	20.8
20	DFT-s-OFDM 16QAM	1	53	19.70	19.83	19.71	
20		1	104	19.69	19.69	19.65	
20		50	1	19.81	19.90	19.75	20.8
20		50	25	19.89	19.70	19.65	
20	DFT-s-OFDM 64QAM	50	50	19.82	19.70	19.59	
20		100	0	19.87	19.71	19.62	
20	DFT-s-OFDM 256QAM	1	1	19.96	20.01	19.88	20.80
20	CP-OFDM QPSK	1	1	18.48	18.46	18.17	18.80
20	CP-OFDM 16QAM	1	1	16.37	16.36	16.05	16.80
20	CP-OFDM 64QAM	1	1	19.40	19.37	19.11	19.80
20	CP-OFDM 256QAM	1	1	18.80	18.89	18.49	19.80
20		1	1	17.40	17.35	17.06	17.80
20		1	1	14.36	14.35	14.07	14.80
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.90	19.71	19.50	20.80
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.91	19.81	19.62	20.80
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.88	19.74	19.60	20.80

B66_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	19.92	19.90	19.82	20.8
20		1	53	19.93	19.86	19.88	
20		1	104	19.97	19.93	19.93	
20		50	1	19.60	19.56	19.50	20.8
20	DFT-s-OFDM QPSK	50	25	20.01	19.91	19.92	
20		50	50	19.63	19.52	19.53	
20		100	0	19.65	19.57	19.55	
20		1	1	19.98	20.06	19.96	20.8
20	DFT-s-OFDM 16QAM	1	53	19.98	19.92	19.91	
20		1	104	19.96	19.89	19.94	
20		50	1	19.90	16.40	19.85	20.8
20		50	25	19.85	19.80	19.86	
20	DFT-s-OFDM 64QAM	50	50	19.02	19.01	19.06	
20		100	0	19.13	19.05	19.04	
20	DFT-s-OFDM 256QAM	1	1	19.36	19.16	19.27	19.80
20	CP-OFDM QPSK	1	1	17.76	17.72	17.63	18.80
20	CP-OFDM 16QAM	1	1	15.71	15.60	15.54	16.80
20	CP-OFDM 64QAM	1	1	18.56	18.64	18.55	19.80
20	CP-OFDM 256QAM	1	1	18.12	18.10	18.02	18.80
20		1	1	16.62	16.60	16.52	17.80
20		1	1	13.75	13.61	13.60	14.80
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.98	19.95	19.94	20.80
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.97	20.04	20.03	20.80
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	20.04	20.01	20.02	20.80

B2_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	19.91	19.86	19.79	20.8
20		1	53	19.82	19.91	19.95	
20		1	104	19.81	19.72	19.79	
20		50	1	19.86	19.91	19.85	20.8
20	DFT-s-OFDM QPSK	50	25	19.90	19.89	20.00	
20		50	50	19.91	19.87	19.89	
20		100	0	19.89	19.87	19.97	
20		1	1	20.04	20.13	20.03	20.8
20	DFT-s-OFDM 16QAM	1	53	19.89	19.97	19.96	
20		1	104	19.85	19.83	19.69	
20		50	1	19.83	19.99	19.85	20.8
20		50	25	19.86	19.90	19.98	
20	DFT-s-OFDM 64QAM	50	50	19.90	19.87	19.84	
20		100	0	19.88	19.84	19.97	
20	DFT-s-OFDM 256QAM	1	1	20.11	20.05	20.08	20.80
20	CP-OFDM QPSK	1	1	18.53	18.59	18.58	19.80
20	CP-OFDM 16QAM	1	1	16.37	16.42	16.38	16.80
20	CP-OFDM 64QAM	1	1	19.42	19.48	19.46	19.80
20	CP-OFDM 256QAM	1	1	18.76	18.78	18.78	19.80
20		1	1	17.57	17.49	17.43	18.80
20		1	1	14.42	14.46	14.38	14.80
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.93	19.90	19.97	20.80
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.88	19.93	19.98	20.80
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	20.04	19.91	19.92	20.80

B66_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	20.03	20.08	20.01	20.8
20		1	53	20.07	20.08	20.16	
20		1	104	20.12	20.03	20.02	
20		50	1	20.17	20.16	20.17	20.8
20	DFT-s-OFDM QPSK	50	25	20.21	20.16	20.17	
20		50	50	20.14	20.22	20.14	
20		100	0	20.22	20.18	20.14	
20	DFT-s-OFDM 16QAM	1	1	20.10	20.32	20.05	20.8
20		1	53	20.11	20.10	20.21	
20		1	104	20.04	20.07	20.06	
20		50	1	20.04	20.11	20.05	20.8
20	DFT-s-OFDM 64QAM	50	25	20.07	20.04	20.11	
20		50	50	20.11	20.09	20.11	
20		100	0	20.09	20.05	20.04	
20	DFT-s-OFDM 256QAM	1	1	20.31	20.28	20.25	20.80
20	CP-OFDM QPSK	1	1	18.75	18.82	18.78	19.80
20	CP-OFDM 16QAM	1	1	16.72	16.75	16.66	17.80
20	CP-OFDM 64QAM	1	1	19.65	19.70	19.70	20.80
20	CP-OFDM 256QAM	1	1	19.01	19.03	18.97	19.80
20		1	1	17.69	17.72	17.66	18.80
20		1	1	14.72	14.78	14.68	15.80
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	20.08	20.07	20.06	20.80
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.92	19.85	19.93	20.80
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.99	19.94	19.91	20.80

B2_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	20.17	20.12	20.01	20.8
30		1	80	20.18	20.10	19.82	
30		1	158	20.07	19.84	19.82	
30		80	1	19.97	19.86	19.47	20.8
30		80	40	20.13	20.06	19.87	
30		80	80	19.83	19.63	19.62	
30		160	0	19.85	19.86	19.50	
30	DFT-s-OFDM QPSK	1	1	20.17	20.22	20.00	20.8
30		1	80	20.15	20.02	19.81	
30		1	158	19.77	19.80	19.74	
30		80	1	20.10	20.13	19.98	20.8
30		80	40	20.12	20.08	19.87	
30		80	80	18.89	19.11	18.97	
30		160	0	19.45	19.21	19.08	
30	DFT-s-OFDM 16QAM	1	1	19.62	19.52	19.36	20.80
30	DFT-s-OFDM 64QAM	1	1	17.19	17.73	17.63	18.80
30	DFT-s-OFDM 256QAM	1	1	15.84	15.67	15.68	16.80
30	CP-OFDM QPSK	1	1	18.87	18.66	18.54	19.80
30	CP-OFDM 16QAM	1	1	18.42	18.11	18.02	18.80
30	CP-OFDM 64QAM	1	1	16.89	16.70	16.65	17.80
30	CP-OFDM 256QAM	1	1	13.92	13.71	13.65	14.80
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	20.19	20.18	19.86	20.80
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	20.13	20.16	19.93	20.80
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	20.00	20.17	20.06	20.80
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	20.16	20.14	19.99	20.80

B5_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	19.71	19.74	19.62	20.8
30		1	80	19.76	19.68	19.65	
30		1	158	19.78	19.53	19.71	
30		80	1	19.89	19.77	19.62	20.8
30		80	40	19.83	19.65	19.72	
30		80	80	19.81	19.72	19.80	
30		160	0	19.87	19.75	19.81	
30	DFT-s-OFDM QPSK	1	1	19.81	20.06	19.90	20.8
30		1	80	19.84	19.87	19.73	
30		1	158	19.83	19.80	19.72	
30		80	1	19.78	19.89	19.68	20.8
30		80	40	19.84	19.71	19.73	
30		80	80	19.87	19.75	19.80	
30		160	0	19.87	19.75	19.76	
30	DFT-s-OFDM 16QAM	1	1	19.96	19.98	19.95	20.80
30	DFT-s-OFDM 64QAM	1	1	18.47	18.50	18.42	19.80
30	DFT-s-OFDM 256QAM	1	1	16.42	16.38	16.26	16.80
30	CP-OFDM QPSK	1	1	19.35	19.41	19.27	19.80
30	CP-OFDM 16QAM	1	1	18.74	18.77	18.71	19.80
30	CP-OFDM 64QAM	1	1	17.39	17.40	17.30	17.80
30	CP-OFDM 256QAM	1	1	14.32	14.35	14.25	14.80
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.77	19.58	19.41	20.80
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.73	19.79	19.74	20.80
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.92	19.81	19.76	20.80
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.85	19.83	19.72	20.80

B13_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	19.76	19.79	19.71	20.8
30		1	80	19.82	19.75	19.69	
30		1	158	19.80	19.61	19.66	
30		80	1	19.83	19.77	19.74	20.8
30		80	40	19.87	19.70	19.75	
30		80	80	19.88	19.80	19.81	
30		160	0	19.95	19.74	19.84	
30	DFT-s-OFDM QPSK	1	1	19.85	20.08	19.90	20.8
30		1	80	19.90	19.88	19.73	
30		1	158	19.76	19.84	19.76	
30		80	1	19.86	20.01	19.93	20.8
30		80	40	19.91	19.80	19.79	
30		80	80	19.92	19.76	19.83	
30		160	0	19.98	19.77	19.77	
30	DFT-s-OFDM 16QAM	1	1	20.03	20.06	19.99	20.80
30	DFT-s-OFDM 64QAM	1	1	18.52	18.52	18.43	19.80
30	DFT-s-OFDM 256QAM	1	1	16.49	16.47	16.35	16.80
30	CP-OFDM QPSK	1	1	19.43	19.45	19.33	19.80
30	CP-OFDM 16QAM	1	1	18.76	18.73	18.69	19.80
30	CP-OFDM 64QAM	1	1	17.46	17.43	17.35	17.80
30	CP-OFDM 256QAM	1	1	14.40	14.42	14.33	14.80
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.58	19.75	19.71	20.80
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.82	19.72	19.69	20.80
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.94	19.84	19.85	20.80
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.94	19.79	19.82	20.80

B5_n77(3450-3550MHz) (PC2)_Ant 10_18dB							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					633334		18.8
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		18.06		18.8
100		1	136		17.67		
100		1	271		17.54		
100		135	1		17.42		18.8
100		135	67		17.78		
100		135	136		16.97		
100		270	0		17.34		
100	DFT-s-OFDM QPSK	1	1		18.13		18.8
100		1	136		17.69		
100		1	271		17.45		
100		135	1		18.00		18.8
100		135	67		17.65		
100		135	136		16.60		
100		270	0		16.59		
100	DFT-s-OFDM 16QAM	1	1		16.19		16.80
100	DFT-s-OFDM 64QAM	1	1		15.09		15.80
100	DFT-s-OFDM 256QAM	1	1		13.07		13.80
100	CP-OFDM QPSK	1	1		15.55		16.80
100	CP-OFDM 16QAM	1	1		15.13		15.80
100	CP-OFDM 64QAM	1	1		14.65		15.80
100	CP-OFDM 256QAM	1	1		11.42		11.80
Channel				632668	633334	634000	18.80
Frequency (MHz)				3490.02	3500.01	3510	
80	DFT-s-OFDM QPSK	1	1	17.79	17.74	17.70	18.80
Channel				632000	633334	634666	18.80
Frequency (MHz)				3480	3500.01	3519.99	
60	DFT-s-OFDM QPSK	1	1	17.55	17.48	17.62	18.80
Channel				631334	633334	635332	18.80
Frequency (MHz)				3470.01	3500.01	3529.98	
40	DFT-s-OFDM QPSK	1	1	17.92	17.65	17.67	18.80
Channel				631000	633334	635666	18.80
Frequency (MHz)				3465	3500.01	3534.99	
30	DFT-s-OFDM QPSK	1	1	17.97	17.82	17.71	18.80
Channel				630668	633334	636000	18.80
Frequency (MHz)				3460.02	3500.01	3540	
20	DFT-s-OFDM QPSK	1	1	17.87	17.74	17.54	18.80

B5_n77(3700-3980MHz) (PC2)_Ant 10_18dB

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	17.98	17.58	17.76	18.8
100		1	136	17.44	16.62	16.66	
100		1	271	17.30	17.48	16.61	
100		135	1	17.41	17.08	17.16	18.8
100	DFT-s-OFDM QPSK	135	67	17.39	16.82	17.44	
100		135	136	16.75	16.96	17.08	
100		270	0	17.09	17.26	17.01	
100		1	1	17.94	18.03	17.73	18.8
100	DFT-s-OFDM 16QAM	1	136	17.40	17.60	16.51	
100		1	271	17.09	17.19	16.53	
100		135	1	17.43	17.75	17.31	18.8
100		135	67	17.46	16.80	16.46	
100		135	136	16.31	16.01	15.55	
100		270	0	16.61	16.44	16.47	
100	DFT-s-OFDM 16QAM	1	1	16.65	16.45	15.67	17.80
100	DFT-s-OFDM 64QAM	1	1	15.13	13.97	14.19	15.80
100	DFT-s-OFDM 256QAM	1	1	13.00	12.06	12.23	13.80
100	CP-OFDM QPSK	1	1	16.09	14.89	15.08	16.80
100	CP-OFDM 16QAM	1	1	15.61	15.44	14.67	16.80
100	CP-OFDM 64QAM	1	1	14.21	14.02	14.19	14.80
100	CP-OFDM 256QAM	1	1	11.07	11.05	11.25	11.80
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	17.57	17.07	17.14	18.80
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	17.65	16.73	17.47	18.80
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	17.57	16.90	17.30	18.80
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	17.88	16.91	17.45	18.80
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	17.81	17.04	17.16	18.80



2.4GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
802.11a 1Mbps	CH 1	2412	13.99	14.00	13.99	99.95
	CH 5	2437	14.00	14.00	13.99	
	CH 11	2462	13.18	14.00	13.99	
	CH 11	2412	12.86	13.99	13.99	
	CH 6	2457	13.99	14.00	13.99	
	CH 11	2462	12.38	13.99	12.99	
802.11a-HT20 MCS0	CH 1	2412	12.14	13.99	12.99	98.23
	CH 6	2457	12.39	13.99	12.99	
	CH 11	2462	11.99	12.99	12.99	
802.11a-VHT40 MCS0	CH 5	2452	12.44	13.99	12.99	94.90
	CH 9	2437	12.17	13.99	12.99	

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	13.95	14.00	13.99	98.54
	CH 44	5220	14.00	15.00	13.99	
	CH 48	5245	13.47	14.00	13.99	
	CH 56	5180	13.33	14.00	12.99	
802.11a-HT20 MCS0	CH 44	5220	13.42	14.00	12.99	98.44
	CH 48	5240	13.07	14.00	12.99	
802.11a-VHT40 MCS0	CH 36	5180	13.96	14.00	12.99	98.88
	CH 48	5220	13.91	14.00	12.99	
802.11ac-VHT20 MCS0	CH 36	5180	13.33	14.00	12.99	98.45
	CH 44	5220	13.43	14.00	12.99	
802.11ac-VHT40 MCS0	CH 36	5180	13.96	14.00	12.99	98.91
	CH 48	5220	13.62	14.00	12.99	
802.11ac-VHT80 MCS0	CH 42	5210	13.53	14.00	12.99	99.09

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 52	5300	12.29	13.00	11.99	99.03
	CH 60	5300	11.89	12.99	11.99	
	CH 64	5325	11.20	12.99	11.99	
	CH 52	5300	11.70	12.99	11.99	
802.11a-HT20 MCS0	CH 60	5300	11.25	12.99	11.99	98.96
	CH 64	5320	10.56	11.99	11.99	
802.11a-VHT40 MCS0	CH 56	5275	11.96	12.99	11.99	95.88
	CH 62	5310	11.12	12.99	11.99	
802.11ac-VHT20 MCS0	CH 52	5300	11.18	12.99	11.99	97.94
	CH 60	5300	10.98	11.99	11.99	
802.11ac-VHT40 MCS0	CH 54	5295	11.06	12.99	11.99	95.92
	CH 54	5270	11.28	12.99	11.99	
802.11ac-VHT80 MCS0	CH 62	5310	11.10	12.99	11.99	91.84
	CH 58	5290	11.18	12.99	11.99	

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 100	5800	12.07	13.00	10.99	99.03
	CH 120	5800	12.17	13.00	10.99	
	CH 144	5720	12.45	13.00	10.99	
	CH 100	5800	11.52	12.99	10.99	
802.11a-HT20 MCS0	CH 120	5800	11.56	12.99	10.99	98.96
	CH 144	5720	12.05	13.00	10.99	
802.11a-VHT40 MCS0	CH 102	5810	12.17	13.00	10.99	98.88
	CH 126	5820	12.08	13.00	10.99	
802.11ac-VHT20 MCS0	CH 142	5710	11.77	12.99	10.99	97.94
	CH 100	5800	11.58	12.99	10.99	
802.11ac-VHT40 MCS0	CH 126	5820	11.66	12.99	10.99	97.94
	CH 144	5720	11.31	12.99	10.99	
802.11ac-VHT80 MCS0	CH 102	5810	12.01	13.00	10.99	96.91
	CH 126	5820	11.95	12.99	10.99	
802.11ac-VHT80 MCS0	CH 142	5710	11.79	12.99	10.99	93.88
	CH 108	5830	11.88	12.99	10.99	
802.11ac-VHT80 MCS0	CH 122	5810	11.78	12.99	10.99	93.88
	CH 138	5860	11.56	12.99	10.99	

5GHz WLAN ANT 8

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 140	5740	11.44	12.00	9.99	98.54
	CH 157	5780	10.80	11.50	9.99	
	CH 165	5820	10.80	11.50	9.99	
	CH 140	5740	10.85	11.50	9.99	
802.11a-HT20 MCS0	CH 157	5780	10.17	11.00	9.99	98.44
	CH 165	5820	10.17	11.00	9.99	
802.11a-VHT40 MCS0	CH 151	5765	11.59	12.00	9.99	98.88
	CH 158	5795	10.53	11.00	9.99	
802.11ac-VHT20 MCS0	CH 146	5745	10.82	11.00	9.99	98.45
	CH 157	5785	10.15	11.00	9.99	
802.11ac-VHT40 MCS0	CH 165	5825	10.10	11.00	9.99	96.91
	CH 151	5765	11.25	12.00	9.99	
802.11ac-VHT80 MCS0	CH 158	5795	10.65	11.00	9.99	92.00
	CH 155	5775	10.71	11.00	9.99	

2.4GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
802.11a 1Mbps	CH 1	2412	14.07	14.00	13.99	99.95
	CH 5	2437	13.46	14.00	13.99	
	CH 11	2462	13.84	14.00	13.99	
802.11a-HT20 MCS0	CH 1	2412	13.32	13.99	12.99	98.95
	CH 6	2457	13.36	13.99	12.99	
	CH 11	2462	13.04	13.99	12.99	
802.11a-VHT40 MCS0	CH 1	2412	12.30	13.99	12.99	98.23
	CH 6	2437	12.62	13.99	12.99	
	CH 11	2462	12.48	13.99	12.99	
802.11ac-VHT40 MCS0	CH 3	2422	12.80	13.99	12.99	94.90
	CH 9	2437	12.52	13.99	12.99	

5.2GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	13.84	13.99	13.99	98.54
	CH 44	5220	12.78	13.99	13.99	
	CH 48	5240	12.81	13.99	12.99	
	CH 56	5180	12.34	13.99	12.99	
802.11a-HT20 MCS0	CH 44	5220	12.15	12.99	12.99	98.44
	CH 48	5240	12.27	13.99	12.99	
802.11a-VHT40 MCS0	CH 36	5180	12.77	13.99	12.99	98.88
	CH 48	5220	12.71	13.99	12.99	
802.11ac-VHT20 MCS0	CH 36	5180	12.36	13.99	12.99	98.45
	CH 44	5220	12.11	12.99	12.99	
802.11ac-VHT40 MCS0	CH 36	5180	12.74	13.99	12.99	98.91
	CH 48	5220	12.75	13.99	12.99	
802.11ac-VHT80 MCS0	CH 42	5210	12.62	13.99	12.99	99.09

5.3GHz WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 52	5300	11.18	12.00	11.99	98.06
	CH 60	5300	11.15	12.00	11.99	
	CH 64	5320	11.39	12.00	11.99	
	CH 52	5300	10.50	11.99	11.99	
802.11a-HT20 MCS0	CH 60	5300	10.49	11.99	11.99	98.96
	CH 64	5320	10.76	11.99	11.99	
802.11a-VHT40 MCS0	CH 54	5275	11.17	12.00	11.99	98.88
	CH 62	5310	11.48	12.00	11.99	
802.11ac-VHT20 MCS0	CH 52	5300	10.86	11.99	11.99	98.96
	CH 60	5300	10.86	11.99	11.99	
802.11ac-VHT40 MCS0	CH 54	5295	11.17	12.00	11.99	95.92
	CH 54	5270	11.46	12.00	11.99	
802.11ac-VHT80 MCS0	CH 62	5310	11.42	12.00	11.99	91.84
	CH 58	5290	11.28	12.00	11.99	

5.5 WLAN ANT 9

Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 100	5800	11.18	12.00	10.99	98.06
	CH 120	5800	12.07	13.00	10.99	
	CH 144	5720	12.48	13.00	10.99	
	CH 100	5800	10.46	11.99	10.99	
802.11a-HT20 MCS0	CH 120	5800	11.52	12.99	10.99	98.44
	CH 144	5720	11.88	12.99	10.99	
802.11a-VHT40 MCS0	CH 102	5810	11.18	12.99	10.99	98.88
	CH 126	5830	11.30	12.99	10.99	
802.11ac-VHT20 MCS0	CH 142	5710	11.43	12.99	10.99	97.94
	CH 100	5800	10.91	11.99	10.99	
802.11ac-VHT40 MCS0	CH 120	5800	11.18	12.99	10.99	97.94
	CH 144	5720	11.36	12.99	10.99	
802.11ac-VHT80 MCS0	CH 102	5810	11.21	13.00	10.99	96.91
	CH 126	5830	11.49	12.99	10.99	
802.11ac-VHT80 MCS0	CH 142	5710	11.49	12.99	10.99	92.00
	CH 108	5830	10.91	11.99	10.99	
802.11ac-VHT80 MCS0	CH 122	5810	11.55	12.99	10.99	92.00
	CH 138	5860	11.41	12.99	10.99	

5.8 WLAN ANT 9

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Turn-Up Limit	Power Setting	Duty Cycle %
5-GigE WLAN ANT 9	802.11a 6Mbps	CH 148	5745	11.58	12.00	9.99	98.54
		CH 157	5785	11.27	11.50	9.99	
		CH 165	5825	10.73	11.50	9.99	
		CH 148	5745	11.03	11.50	9.99	
	802.11a-HT20 MCS0	CH 157	5785	10.77	11.50	9.99	98.44
		CH 165	5825	10.19	10.99	9.99	
	802.11a-VHT40 MCS0	CH 151	5765	11.88	12.00	9.99	98.88
		CH 158	5795	11.25	12.00	9.99	
	802.11ac-VHT20 MCS0	CH 140	5745	10.96	11.00	9.99	98.45
		CH 157	5785	10.73	11.00	9.99	
802.11ac-VHT40 MCS0	CH 165	5825	10.11	10.99	9.99	98.91	
	CH 151	5765	11.81	12.00	9.99		
	CH 158	5795	11.62	11.50	9.99		
802.11a-VHT20 MCS0	CH 155	5775	11.61	12.00	9.99	98.90	

Reduced Power Level 3 for ANT 1 & ANT3 & ANT 4 & ANT 7 & ANT8 & ANT9 & ANT10

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	29.70	29.71	29.63	30.70	20.70	20.71	20.63	21.70	0.25
GSM 1 Tx slot	29.84	29.88	29.78	30.70	20.84	20.88	20.78	21.70	
GPRS 1 Tx slot	27.41	27.53	27.45	28.00	21.41	21.53	21.45	22.00	0.12
GPRS 2 Tx slots	25.39	25.42	25.33	26.20	21.13	21.16	21.07	21.94	0.09
GPRS 3 Tx slots	23.89	24.05	23.97	25.00	20.89	21.05	20.97	22.00	0.16
GPRS 4 Tx slots	26.30	26.33	26.19	26.50	17.30	17.33	17.19	17.50	0.14
EDGE 1 Tx slot	23.94	23.98	23.81	24.50	17.94	17.98	17.81	18.50	0.17
EDGE 2 Tx slots	21.97	22.00	21.88	22.50	17.71	17.74	17.62	18.24	0.12
EDGE 3 Tx slots	20.21	20.23	20.16	20.50	17.21	17.23	17.16	17.50	0.07
EDGE 4 Tx slots									
Mode		Max.	29.88			Max.	21.53		
Attenuator	Cable Loss : 0.6								

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	23.17	23.21	23.12	23.80
3GPP Rel 5	HSDPA Subtest-1	21.87	21.88	21.85	22.50
3GPP Rel 5	HSDPA Subtest-2	21.89	21.97	21.92	22.50
3GPP Rel 5	HSDPA Subtest-3	21.44	21.46	21.38	22.00
3GPP Rel 5	HSDPA Subtest-4	21.42	21.42	21.23	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.86	21.85	21.84	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	21.82	21.85	21.83	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.34	21.36	21.32	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.35	21.35	21.34	22.00
3GPP Rel 6	HSUPA Subtest-1	21.93	21.91	21.93	22.50
3GPP Rel 6	HSUPA Subtest-2	21.41	21.31	21.37	22.00
3GPP Rel 6	HSUPA Subtest-3	21.81	21.90	21.92	22.50
3GPP Rel 6	HSUPA Subtest-4	21.87	21.88	21.85	22.50
3GPP Rel 6	HSUPA Subtest-5	21.86	21.89	21.83	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.87	21.88	21.82	22.50
Attenuator			Cable Loss	0.6	
Mode		Max.	23.21		

Band 2 ANT 7 (1900MHz Band) (dBm)							
Part 24F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.85	18.89	18.82	
20	QPSK	1	49	18.86	18.80	18.66	19.8
20	QPSK	1	99	18.71	18.76	18.75	
20	QPSK	50	0	17.74	17.84	17.76	
20	QPSK	50	24	17.71	17.69	17.75	18.8
20	QPSK	50	50	17.64	17.64	17.65	
20	QPSK	100	0	17.67	17.69	17.64	
20	16QAM	1	0	17.87	18.03	17.92	18.8
20	16QAM	1	49	18.00	18.01	17.80	
20	16QAM	1	99	17.89	17.98	17.96	
20	16QAM	50	0	16.78	16.82	16.65	17.8
20	16QAM	50	24	16.62	16.77	16.66	
20	16QAM	50	50	16.70	16.67	16.79	
20	16QAM	100	0	16.54	16.68	16.72	17.8
20	64QAM	1	0	16.72	16.97	16.89	
20	64QAM	1	49	16.69	16.62	16.86	
20	64QAM	1	99	16.81	16.82	16.90	16.8
20	64QAM	50	0	15.78	15.85	15.77	
20	64QAM	50	24	15.66	15.72	15.60	
20	64QAM	50	50	15.75	15.62	15.65	
20	64QAM	100	0	15.69	15.81	15.76	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.78	18.86	18.80	
15	QPSK	1	37	18.74	18.85	18.71	19.8
15	QPSK	1	74	18.61	18.80	18.70	
15	QPSK	36	0	17.72	17.95	17.84	
15	QPSK	36	20	17.72	17.68	17.65	18.8
15	QPSK	36	39	17.64	17.63	17.63	
15	QPSK	75	0	17.55	17.74	17.82	
15	16QAM	1	0	18.02	18.03	17.97	18.8
15	16QAM	1	37	17.95	18.00	17.92	
15	16QAM	1	74	17.77	17.95	17.81	
15	16QAM	36	0	16.90	16.92	16.77	17.8
15	16QAM	36	20	16.83	16.71	16.63	
15	16QAM	36	39	16.69	16.77	16.82	
15	16QAM	75	0	16.59	16.71	16.71	17.8
15	64QAM	1	0	16.80	16.87	16.86	
15	64QAM	1	37	16.66	16.82	16.97	
15	64QAM	1	74	16.78	16.74	16.86	16.8
15	64QAM	36	0	15.76	15.90	15.67	
15	64QAM	36	20	15.57	15.88	15.67	
15	64QAM	36	39	15.71	15.60	15.65	
15	64QAM	75	0	15.54	15.64	15.66	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.75	18.84	18.81	
10	QPSK	1	25	18.82	18.74	18.64	19.8
10	QPSK	1	49	18.75	18.75	18.60	
10	QPSK	25	0	17.76	17.85	17.79	
10	QPSK	25	12	17.72	17.79	17.78	18.8
10	QPSK	25	25	17.67	17.67	17.73	
10	QPSK	50	0	17.75	17.65	17.68	
10	16QAM	1	0	17.92	17.98	17.96	18.8
10	16QAM	1	25	17.91	17.96	17.95	
10	16QAM	1	49	17.73	17.86	17.94	
10	16QAM	25	0	16.77	16.91	16.69	17.8
10	16QAM	25	12	16.78	16.70	16.77	
10	16QAM	25	25	16.55	16.73	16.79	
10	16QAM	50	0	16.63	16.77	16.67	17.8
10	64QAM	1	0	16.71	16.95	16.77	
10	64QAM	1	25	16.79	16.75	16.86	
10	64QAM	1	49	16.68	16.60	16.90	16.8
10	64QAM	25	0	15.69	15.86	15.75	
10	64QAM	25	12	15.55	15.72	15.60	
10	64QAM	25	25	15.76	15.54	15.53	
10	64QAM	50	0	15.66	15.86	15.71	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.75	18.82	18.77	
5	QPSK	1	12	18.75	18.60	18.63	19.8
5	QPSK	1	24	18.54	18.68	18.81	
5	QPSK	12	0	17.68	17.85	17.78	
5	QPSK	12	7	17.79	17.72	17.67	18.8
5	QPSK	12	13	17.65	17.65	17.58	
5	QPSK	25	0	17.60	17.60	17.64	
5	16QAM	1	0	17.82	17.96	17.87	18.8
5	16QAM	1	12	17.92	17.92	17.86	
5	16QAM	1	24	17.96	17.87	17.95	
5	16QAM	12	0	16.76	16.83	16.55	17.8
5	16QAM	12	7	16.60	16.63	16.65	
5	16QAM	12	13	16.59	16.79	16.73	
5	16QAM	25	0	16.44	16.67	16.63	17.8
5	64QAM	1	0	16.78	16.89	16.74	
5	64QAM	1	12	16.82	16.84	16.88	
5	64QAM	1	24	16.82	16.70	16.82	16.8
5	64QAM	12	0	15.69	15.87	15.88	
5	64QAM	12	7	15.70	15.77	15.71	
5	64QAM	12	13	15.70	15.57	15.70	
5	64QAM	25	0	15.57	15.86	15.68	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	18.69	18.79	18.75	
3	QPSK	1	8	18.77	18.74	18.73	19.8
3	QPSK	1	14	18.64	18.76	18.65	
3	QPSK	8	0	17.72	17.78	17.69	
3	QPSK	8	4	17.74	17.56	17.57	18.8
3	QPSK	8	7	17.68	17.70	17.67	
3	QPSK	15	0	17.72	17.77	17.67	
3	16QAM	1	0	17.88	17.95	17.93	

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	22.69	22.88	22.74	23.8
10	QPSK	1	25	22.72	22.76	22.73	
10	QPSK	1	49	22.58	22.65	22.56	
10	QPSK	25	0	21.71	21.75	21.73	22.8
10	QPSK	25	12	21.63	21.64	21.68	
10	QPSK	25	25	21.60	21.65	21.59	
10	QPSK	50	0	21.56	21.72	21.60	22.8
10	16QAM	1	0	21.79	22.00	21.84	
10	16QAM	1	25	21.81	21.87	21.88	
10	16QAM	1	49	21.88	21.87	21.80	21.8
10	16QAM	25	0	20.70	20.75	20.62	
10	16QAM	25	12	20.50	20.65	20.75	
10	16QAM	25	25	20.49	20.66	20.73	21.8
10	16QAM	50	0	20.54	20.62	20.48	
10	64QAM	1	0	20.69	20.89	20.63	
10	64QAM	1	25	20.65	20.76	20.85	21.8
10	64QAM	1	49	20.67	20.73	20.72	
10	64QAM	25	0	19.62	19.68	19.61	
10	64QAM	25	12	19.56	19.66	19.58	20.8
10	64QAM	25	25	19.43	19.63	19.51	
10	64QAM	50	0	19.55	19.65	19.57	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.67	22.70	22.69	23.8
5	QPSK	1	12	22.64	22.62	22.63	
5	QPSK	1	24	22.53	22.62	22.50	
5	QPSK	12	0	21.76	21.85	21.59	22.8
5	QPSK	12	7	21.74	21.60	21.63	
5	QPSK	12	13	21.69	21.60	21.56	
5	QPSK	25	0	21.55	21.72	21.63	22.8
5	16QAM	1	0	21.70	22.01	21.92	
5	16QAM	1	12	21.82	21.96	21.88	
5	16QAM	1	24	21.72	21.77	21.86	21.8
5	16QAM	12	0	20.71	20.77	20.59	
5	16QAM	12	7	20.63	20.60	20.76	
5	16QAM	12	13	20.55	20.59	20.71	21.8
5	16QAM	25	0	20.53	20.61	20.64	
5	64QAM	1	0	20.73	20.84	20.78	
5	64QAM	1	12	20.58	20.63	20.65	21.8
5	64QAM	1	24	20.60	20.71	20.73	
5	64QAM	12	0	19.53	19.74	19.69	
5	64QAM	12	7	19.58	19.60	19.56	20.8
5	64QAM	12	13	19.52	19.63	19.55	
5	64QAM	25	0	19.56	19.61	19.60	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.69	22.73	22.68	23.8
3	QPSK	1	8	22.64	22.68	22.65	
3	QPSK	1	14	22.62	22.66	22.50	
3	QPSK	8	0	21.63	21.73	21.72	22.8
3	QPSK	8	4	21.67	21.64	21.59	
3	QPSK	8	7	21.66	21.68	21.49	
3	QPSK	15	0	21.59	21.58	21.58	22.8
3	16QAM	1	0	21.81	21.96	21.84	
3	16QAM	1	8	21.77	21.95	21.83	
3	16QAM	1	14	21.78	21.77	21.90	21.8
3	16QAM	8	0	20.70	20.70	20.64	
3	16QAM	8	4	20.53	20.57	20.55	
3	16QAM	8	7	20.59	20.53	20.58	21.8
3	16QAM	15	0	20.55	20.67	20.64	
3	64QAM	1	0	20.69	20.83	20.76	
3	64QAM	1	8	20.63	20.64	20.71	21.8
3	64QAM	1	14	20.67	20.62	20.71	
3	64QAM	8	0	19.65	19.71	19.76	
3	64QAM	8	4	19.65	19.71	19.61	20.8
3	64QAM	8	7	19.60	19.56	19.64	
3	64QAM	15	0	19.61	19.76	19.59	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.61	22.76	22.64	23.8
1.4	QPSK	1	3	22.60	22.67	22.58	
1.4	QPSK	1	5	22.60	22.57	22.51	
1.4	QPSK	3	0	21.74	21.89	21.84	22.8
1.4	QPSK	3	1	21.75	21.75	21.74	
1.4	QPSK	3	3	21.74	21.76	21.77	
1.4	QPSK	6	0	21.46	21.62	21.57	22.8
1.4	16QAM	1	0	21.72	22.08	21.90	
1.4	16QAM	1	3	21.77	21.83	21.71	
1.4	16QAM	1	5	21.87	21.78	21.75	22.8
1.4	16QAM	3	0	20.76	20.75	20.72	
1.4	16QAM	3	1	20.78	20.76	20.74	
1.4	16QAM	3	3	20.72	20.73	20.71	21.8
1.4	16QAM	6	0	20.46	20.71	20.49	
1.4	64QAM	1	0	20.81	20.78	20.76	
1.4	64QAM	1	3	20.67	20.55	20.79	21.8
1.4	64QAM	1	5	20.63	20.60	20.68	
1.4	64QAM	3	0	19.75	19.75	19.76	
1.4	64QAM	3	1	19.71	19.79	19.78	20.8
1.4	64QAM	3	3	19.77	19.75	19.72	
1.4	64QAM	6	0	19.41	19.58	19.64	



3	16QAM	1	8	17.98	17.92	17.97	18.8
3	16QAM	1	14	17.77	17.88	17.86	
3	16QAM	8	0	16.82	16.87	16.63	
3	16QAM	8	4	16.60	16.62	16.85	
3	16QAM	8	7	16.52	16.76	16.71	
3	16QAM	15	0	16.62	16.69	16.68	
3	64QAM	1	0	16.80	16.86	16.97	
3	64QAM	1	8	16.78	16.61	16.84	
3	64QAM	1	14	16.78	16.69	16.87	
3	64QAM	8	0	15.71	15.76	15.73	
3	64QAM	8	4	15.71	15.89	15.64	
3	64QAM	8	7	15.56	15.54	15.56	
3	64QAM	15	0	15.64	15.79	15.59	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.72	18.80	18.74	
1.4	QPSK	1	3	18.66	18.70	18.78	
1.4	QPSK	1	5	18.72	18.73	18.57	
1.4	QPSK	3	0	17.86	17.88	17.80	
1.4	QPSK	3	1	17.83	17.83	17.82	
1.4	QPSK	3	3	17.83	17.85	17.81	
1.4	QPSK	6	0	17.70	17.69	17.73	18.8
1.4	16QAM	1	0	18.05	18.03	17.88	
1.4	16QAM	1	3	17.82	17.99	17.94	
1.4	16QAM	1	5	17.86	17.94	17.85	
1.4	16QAM	3	0	16.83	16.90	16.80	
1.4	16QAM	3	1	16.84	16.87	16.85	
1.4	16QAM	3	3	16.81	16.80	16.83	
1.4	16QAM	6	0	16.47	16.68	16.57	17.8
1.4	64QAM	1	0	16.71	16.90	16.74	
1.4	64QAM	1	3	16.66	16.62	16.82	
1.4	64QAM	1	5	16.72	16.70	16.70	
1.4	64QAM	3	0	15.87	15.94	15.88	
1.4	64QAM	3	1	15.81	15.89	15.86	
1.4	64QAM	3	3	15.85	15.82	15.81	
1.4	64QAM	6	0	15.71	15.79	15.67	16.8



Band 66 ANT 7 (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	18.87	18.95	18.90	19.8
20	QPSK	1	49	18.64	18.60	18.78	
20	QPSK	1	99	18.73	18.87	18.69	
20	QPSK	50	0	17.86	17.91	17.87	
20	QPSK	50	24	17.73	17.78	17.75	18.8
20	QPSK	50	50	17.63	17.77	17.67	
20	QPSK	100	0	17.66	17.64	17.87	
20	16QAM	1	0	17.85	18.10	17.93	
20	16QAM	1	49	18.03	18.08	17.77	18.8
20	16QAM	1	99	17.97	17.93	17.90	
20	16QAM	50	0	16.86	16.89	16.75	
20	16QAM	50	24	16.79	16.71	16.78	
20	16QAM	50	50	16.66	16.73	16.81	17.8
20	16QAM	100	0	16.75	16.92	16.71	
20	64QAM	1	0	16.91	16.97	16.73	
20	64QAM	1	49	16.72	16.83	16.86	
20	64QAM	1	99	16.83	16.77	16.86	17.8
20	64QAM	50	0	15.70	15.83	15.70	
20	64QAM	50	24	15.74	15.93	15.69	
20	64QAM	50	50	15.65	15.67	15.67	
20	64QAM	100	0	15.60	15.79	15.71	16.8
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)
15	QPSK	1	0	18.81	18.91	18.85	19.8
15	QPSK	1	37	18.87	18.78	18.77	
15	QPSK	1	74	18.77	18.78	18.71	
15	QPSK	36	0	17.83	17.85	17.77	
15	QPSK	36	20	17.87	17.71	17.69	18.8
15	QPSK	36	39	17.80	17.79	17.72	
15	QPSK	75	0	17.70	17.70	17.79	
15	16QAM	1	0	17.95	18.01	18.07	
15	16QAM	1	37	17.95	17.89	17.77	18.8
15	16QAM	1	74	17.84	18.05	17.94	
15	16QAM	36	0	16.77	16.84	16.77	
15	16QAM	36	20	16.60	16.53	16.78	
15	16QAM	36	39	16.69	16.57	16.80	17.8
15	16QAM	75	0	16.60	16.76	16.61	
15	64QAM	1	0	16.79	16.91	16.95	
15	64QAM	1	37	16.77	16.80	16.77	
15	64QAM	1	74	16.80	16.74	16.85	17.8
15	64QAM	36	0	15.71	15.74	15.80	
15	64QAM	36	20	15.65	15.67	15.72	
15	64QAM	36	39	15.73	15.67	15.74	
15	64QAM	75	0	15.75	15.87	15.78	16.8
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)
10	QPSK	1	0	18.78	18.89	18.83	19.8
10	QPSK	1	25	18.68	18.68	18.71	
10	QPSK	1	49	18.68	18.72	18.72	
10	QPSK	25	0	17.78	17.91	17.86	
10	QPSK	25	12	17.86	17.76	17.79	18.8
10	QPSK	25	25	17.76	17.74	17.72	
10	QPSK	50	0	17.78	17.72	17.86	
10	16QAM	1	0	17.99	18.09	17.95	
10	16QAM	1	25	17.81	17.94	17.89	18.8
10	16QAM	1	49	17.80	17.95	17.96	
10	16QAM	25	0	16.89	16.80	16.60	
10	16QAM	25	12	16.69	16.68	16.71	
10	16QAM	25	25	16.61	16.72	16.75	17.8
10	16QAM	50	0	16.57	16.75	16.61	
10	64QAM	1	0	16.92	16.94	16.79	
10	64QAM	1	25	16.65	16.64	16.89	
10	64QAM	1	49	16.82	16.68	16.79	17.8
10	64QAM	25	0	15.79	15.71	15.75	
10	64QAM	25	12	15.68	15.80	15.53	
10	64QAM	25	25	15.71	15.62	15.52	
10	64QAM	50	0	15.59	15.73	15.62	16.8
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)
5	QPSK	1	0	18.79	18.86	18.71	19.8
5	QPSK	1	12	18.70	18.71	18.69	
5	QPSK	1	24	18.65	18.67	18.62	
5	QPSK	12	0	17.88	17.92	17.75	
5	QPSK	12	7	17.89	17.70	17.64	18.8
5	QPSK	12	13	17.68	17.80	17.61	
5	QPSK	25	0	17.67	17.77	17.83	
5	16QAM	1	0	17.81	18.02	17.90	
5	16QAM	1	12	18.05	17.98	17.87	18.8
5	16QAM	1	24	17.92	18.04	17.86	
5	16QAM	12	0	16.91	16.79	16.76	
5	16QAM	12	7	16.62	16.85	16.84	
5	16QAM	12	13	16.68	16.77	16.69	17.8
5	16QAM	25	0	16.61	16.72	16.66	
5	64QAM	1	0	16.91	17.07	16.80	
5	64QAM	1	12	16.70	16.78	16.92	
5	64QAM	1	24	16.71	16.72	16.87	17.8
5	64QAM	12	0	15.73	15.75	15.69	
5	64QAM	12	7	15.60	15.80	15.57	
5	64QAM	12	13	15.72	15.64	15.56	
5	64QAM	25	0	15.75	15.81	15.60	16.8
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	Tune-up limit (dBm)
3	QPSK	1	0	18.78	18.87	18.75	19.8
3	QPSK	1	8	18.73	18.74	18.77	
3	QPSK	1	14	18.67	18.80	18.62	
3	QPSK	8	0	17.66	17.75	17.73	
3	QPSK	8	4	17.72	17.59	17.68	18.8
3	QPSK	8	7	17.81	17.66	17.59	
3	QPSK	15	0	17.59	17.73	17.65	
3	16QAM	1	0	17.90	18.05	18.04	



3	16QAM	1	8	17.91	18.08	17.88	18.8
3	16QAM	1	14	17.85	17.96	17.99	
3	16QAM	8	0	16.94	16.92	16.69	
3	16QAM	8	4	16.77	16.74	16.72	17.8
3	16QAM	8	7	16.71	16.70	16.79	
3	16QAM	15	0	16.70	16.80	16.65	
3	64QAM	1	0	16.72	17.03	16.88	
3	64QAM	1	8	16.83	16.83	16.81	17.8
3	64QAM	1	14	16.72	16.72	16.76	
3	64QAM	8	0	15.69	15.70	15.72	
3	64QAM	8	4	15.59	15.77	15.66	16.8
3	64QAM	8	7	15.72	15.60	15.65	
3	64QAM	15	0	15.62	15.78	15.76	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.81	18.86	18.70	
1.4	QPSK	1	3	18.81	18.68	18.69	
1.4	QPSK	1	5	18.55	18.76	18.81	19.8
1.4	QPSK	3	0	17.87	17.88	17.85	
1.4	QPSK	3	1	17.82	17.82	17.80	
1.4	QPSK	3	3	17.80	17.81	17.82	
1.4	QPSK	6	0	17.70	17.74	17.66	18.8
1.4	16QAM	1	0	17.94	18.03	17.85	
1.4	16QAM	1	3	17.92	17.97	17.75	
1.4	16QAM	1	5	17.84	17.99	17.86	18.8
1.4	16QAM	3	0	16.73	16.97	16.67	
1.4	16QAM	3	1	16.82	16.68	16.80	
1.4	16QAM	3	3	16.62	16.74	16.68	
1.4	16QAM	6	0	16.69	16.80	16.61	17.8
1.4	64QAM	1	0	16.71	16.90	16.85	
1.4	64QAM	1	3	16.77	16.73	16.75	
1.4	64QAM	1	5	16.68	16.71	16.93	17.8
1.4	64QAM	3	0	15.61	15.73	15.79	
1.4	64QAM	3	1	15.59	15.82	15.69	
1.4	64QAM	3	3	15.69	15.61	15.56	
1.4	64QAM	6	0	15.62	15.71	15.79	16.8



CA_5B Sensor on For Body									
Combination:10MHz+10MHz(50RB+50RB)									
PCC Channel	PCC Channel (RB)	SCC Channel	Modulation	PCC		SCC		Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset		
20450	20450	20549	QPSK	1	0	0	0	22.84	23.5
20476	20476	20575	QPSK	1	0	0	0	22.77	23.5
20501	20501	20600	QPSK	1	0	0	0	22.73	23.5
20450	20450	20549	16QAM	1	0	0	0	22.39	23
20476	20476	20575	16QAM	1	0	0	0	22.24	23
20501	20501	20600	16QAM	1	0	0	0	22.27	23
20450	20450	20549	64QAM	1	0	0	0	21.78	22.5
20476	20476	20575	64QAM	1	0	0	0	21.55	22.5
20501	20501	20600	64QAM	1	0	0	0	21.61	22.5
20450	20450	20549	QPSK	25	0	0	0	22.08	23
20476	20476	20575	QPSK	25	0	0	0	22.04	23
20501	20501	20600	QPSK	25	0	0	0	22.05	23

B5_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	19.75	19.68	19.51	20.8
20		1	53	19.78	19.68	19.55	
20		1	104	19.74	19.64	19.54	
20		50	1	19.77	19.77	19.57	20.8
20	DFT-s-OFDM QPSK	50	25	19.84	19.75	19.56	
20		50	50	19.86	19.62	19.48	
20		100	0	19.81	19.76	19.56	
20	DFT-s-OFDM 16QAM	1	1	19.99	20.07	20.04	20.8
20		1	53	19.89	19.97	19.91	
20		1	104	19.77	19.74	19.68	
20		50	1	19.81	19.91	19.82	20.8
20	DFT-s-OFDM 64QAM	50	25	19.86	19.76	19.71	
20		50	50	19.75	19.64	19.59	
20		100	0	19.82	19.74	19.63	
20	DFT-s-OFDM 256QAM	1	1	20.02	20.00	19.84	20.80
20	CP-OFDM QPSK	1	1	18.50	18.42	18.26	19.80
20	CP-OFDM 16QAM	1	1	16.35	16.29	16.07	16.80
20	CP-OFDM 64QAM	1	1	19.48	19.36	19.20	19.80
20	CP-OFDM 256QAM	1	1	18.80	18.71	18.52	19.80
20		1	1	17.46	17.31	17.13	17.80
20		1	1	14.42	14.31	14.14	14.80
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.83	19.73	19.55	20.80
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.99	19.74	19.57	20.80
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.96	19.78	19.68	20.80

B13_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	19.80	19.72	19.55	20.8
20		1	53	19.79	19.73	19.47	
20		1	104	19.78	19.59	19.46	
20		50	1	19.83	19.75	19.54	20.8
20	DFT-s-OFDM QPSK	50	25	19.89	19.76	19.62	
20		50	50	19.83	19.66	19.55	
20		100	0	19.87	19.71	19.56	
20		1	1	19.90	20.05	19.79	20.8
20	DFT-s-OFDM 16QAM	1	53	19.70	19.83	19.71	
20		1	104	19.69	19.69	19.65	
20		50	1	19.81	19.90	19.75	20.8
20		50	25	19.89	19.70	19.65	
20	DFT-s-OFDM 64QAM	50	50	19.82	19.70	19.59	
20		100	0	19.87	19.71	19.62	
20	DFT-s-OFDM 256QAM	1	1	19.96	20.01	19.88	20.80
20	CP-OFDM QPSK	1	1	18.48	18.46	18.17	18.80
20	CP-OFDM 16QAM	1	1	16.37	16.36	16.05	16.80
20	CP-OFDM 64QAM	1	1	19.40	19.37	19.11	19.80
20	CP-OFDM 256QAM	1	1	18.80	18.89	18.49	19.80
20		1	1	17.40	17.35	17.06	17.80
20		1	1	14.36	14.35	14.07	14.80
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.90	19.71	19.50	20.80
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.91	19.81	19.62	20.80
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.88	19.74	19.60	20.80

B66_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	19.92	19.90	19.82	20.8
20		1	53	19.93	19.86	19.88	
20		1	104	19.97	19.93	19.93	
20		50	1	19.60	19.56	19.50	20.8
20	DFT-s-OFDM QPSK	50	25	20.01	19.91	19.92	
20		50	50	19.63	19.52	19.53	
20		100	0	19.65	19.57	19.55	
20		1	1	19.98	20.06	19.96	20.8
20	DFT-s-OFDM 16QAM	1	53	19.98	19.92	19.91	
20		1	104	19.96	19.89	19.94	
20		50	1	19.90	16.40	19.85	20.8
20		50	25	19.85	19.80	19.86	
20	DFT-s-OFDM 64QAM	50	50	19.02	19.01	19.06	
20		100	0	19.13	19.05	19.04	
20	DFT-s-OFDM 256QAM	1	1	19.36	19.16	19.27	19.80
20	CP-OFDM QPSK	1	1	17.76	17.72	17.63	18.80
20	CP-OFDM 16QAM	1	1	15.71	15.60	15.54	16.80
20	CP-OFDM 64QAM	1	1	18.56	18.64	18.55	19.80
20	CP-OFDM 256QAM	1	1	18.12	18.10	18.02	18.80
20		1	1	16.62	16.60	16.52	17.80
20		1	1	13.75	13.61	13.60	14.80
Channel				371500	376000	380500	Tune-up limit
Frequency (MHz)				1857.5	1880	1902.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.98	19.95	19.94	20.80
Channel				371000	376000	381000	Tune-up limit
Frequency (MHz)				1855	1880	1905	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.97	20.04	20.03	20.80
Channel				370500	376000	381500	Tune-up limit
Frequency (MHz)				1852.5	1880	1907.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	20.04	20.01	20.02	20.80

B2_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	19.91	19.86	19.79	20.8
20		1	53	19.82	19.91	19.95	
20		1	104	19.81	19.72	19.79	
20		50	1	19.86	19.91	19.85	20.8
20		50	25	19.90	19.89	20.00	
20		50	50	19.91	19.87	19.89	
20		100	0	19.89	19.87	19.97	
20	DFT-s-OFDM QPSK	1	1	20.04	20.13	20.03	20.8
20		1	53	19.89	19.97	19.96	
20		1	104	19.85	19.83	19.69	
20		50	1	19.83	19.99	19.85	20.8
20		50	25	19.86	19.90	19.98	
20		50	50	19.90	19.87	19.84	
20		100	0	19.88	19.84	19.97	
20	DFT-s-OFDM 16QAM	1	1	20.11	20.05	20.08	20.80
20	DFT-s-OFDM 64QAM	1	1	18.53	18.59	18.58	19.80
20	DFT-s-OFDM 256QAM	1	1	16.37	16.42	16.38	16.80
20	CP-OFDM QPSK	1	1	19.42	19.48	19.46	19.80
20	CP-OFDM 16QAM	1	1	18.76	18.78	18.78	19.80
20	CP-OFDM 64QAM	1	1	17.57	17.49	17.43	18.80
20	CP-OFDM 256QAM	1	1	14.42	14.46	14.38	14.80
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	19.93	19.90	19.97	20.80
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	19.88	19.93	19.98	20.80
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	20.04	19.91	19.92	20.80

B66_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	20.03	20.08	20.01	20.8
20		1	53	20.07	20.08	20.16	
20		1	104	20.12	20.03	20.02	
20		50	1	20.17	20.16	20.17	20.8
20	DFT-s-OFDM QPSK	50	25	20.21	20.16	20.17	
20		50	50	20.14	20.22	20.14	
20		100	0	20.22	20.18	20.14	
20		1	1	20.10	20.32	20.05	20.8
20	DFT-s-OFDM 16QAM	1	53	20.11	20.10	20.21	
20		1	104	20.04	20.07	20.06	
20		50	1	20.04	20.11	20.05	20.8
20		50	25	20.07	20.04	20.11	
20	DFT-s-OFDM 64QAM	50	50	20.11	20.09	20.11	
20		100	0	20.09	20.05	20.04	
20	DFT-s-OFDM 256QAM	1	1	20.31	20.28	20.25	20.80
20	CP-OFDM QPSK	1	1	18.75	18.82	18.78	19.80
20	CP-OFDM 16QAM	1	1	16.72	16.75	16.66	17.80
20	CP-OFDM 64QAM	1	1	19.65	19.70	19.70	20.80
20	CP-OFDM 256QAM	1	1	19.01	19.03	18.97	19.80
20		1	1	17.69	17.72	17.66	18.80
20		1	1	14.72	14.78	14.68	15.80
Channel				166300	167300	168300	Tune-up limit
Frequency (MHz)				831.5	836.5	841.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	20.08	20.07	20.06	20.80
Channel				165800	167300	168800	Tune-up limit
Frequency (MHz)				829	836.5	844	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.92	19.85	19.93	20.80
Channel				165300	167300	169300	Tune-up limit
Frequency (MHz)				826.5	836.5	846.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.99	19.94	19.91	20.80

B2_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	20.22	20.17	20.06	20.8
30		1	80	20.23	20.15	19.87	
30		1	158	20.12	19.89	19.87	
30		80	1	20.02	19.91	19.52	20.8
30		80	40	20.18	20.11	19.92	
30		80	80	19.88	19.68	19.67	
30		160	0	19.90	19.91	19.55	
30	DFT-s-OFDM QPSK	1	1	20.22	20.27	20.05	20.8
30		1	80	20.20	20.07	19.86	
30		1	158	19.82	19.85	19.79	
30		80	1	20.15	20.18	20.03	20.8
30		80	40	20.17	20.13	19.92	
30		80	80	18.94	19.16	19.02	
30		160	0	19.50	19.26	19.13	
30	DFT-s-OFDM 16QAM	1	1	19.67	19.57	19.41	20.80
30	DFT-s-OFDM 64QAM	1	1	17.24	17.78	17.68	18.80
30	DFT-s-OFDM 256QAM	1	1	15.89	15.72	15.73	16.80
30	CP-OFDM QPSK	1	1	18.92	18.71	18.59	19.80
30	CP-OFDM 16QAM	1	1	18.47	18.16	18.07	18.80
30	CP-OFDM 64QAM	1	1	16.94	16.75	16.70	17.80
30	CP-OFDM 256QAM	1	1	13.97	13.76	13.70	14.80
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM QPSK	1	1	20.24	20.23	19.91	20.80
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	20.18	20.21	19.98	20.80
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	20.05	20.22	20.11	20.80
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	20.21	20.19	20.04	20.80

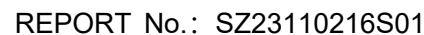
B5_n66 (PC3)							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				345000	349000	353000	(dBm)
Frequency (MHz)				1725	1745	1765	
30	DFT-s-OFDM PI/2 BPSK	1	1	19.71	19.74	19.62	20.8
30		1	80	19.76	19.68	19.65	
30		1	158	19.78	19.53	19.71	
30		80	1	19.89	19.77	19.62	20.8
30		80	40	19.83	19.65	19.72	
30		80	80	19.81	19.72	19.80	
30		160	0	19.87	19.75	19.81	
30	DFT-s-OFDM QPSK	1	1	19.81	20.06	19.90	20.8
30		1	80	19.84	19.87	19.73	
30		1	158	19.83	19.80	19.72	
30		80	1	19.78	19.89	19.68	20.8
30		80	40	19.84	19.71	19.73	
30		80	80	19.87	19.75	19.80	
30		160	0	19.87	19.75	19.76	
30	DFT-s-OFDM 16QAM	1	1	19.96	19.98	19.95	20.80
30	DFT-s-OFDM 64QAM	1	1	18.47	18.50	18.42	19.80
30	DFT-s-OFDM 256QAM	1	1	16.42	16.38	16.26	16.80
30	CP-OFDM QPSK	1	1	19.35	19.41	19.27	19.80
30	CP-OFDM 16QAM	1	1	18.74	18.77	18.71	19.80
30	CP-OFDM 64QAM	1	1	17.39	17.40	17.30	17.80
30	CP-OFDM 256QAM	1	1	14.32	14.35	14.25	14.80
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.77	19.58	19.41	20.80
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.73	19.79	19.74	20.80
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.92	19.81	19.76	20.80
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.85	19.83	19.72	20.80

B13_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	19.76	19.79	19.71	20.8
30		1	80	19.82	19.75	19.69	
30		1	158	19.80	19.61	19.66	
30		80	1	19.83	19.77	19.74	20.8
30		80	40	19.87	19.70	19.75	
30		80	80	19.88	19.80	19.81	
30		160	0	19.95	19.74	19.84	
30	DFT-s-OFDM QPSK	1	1	19.85	20.08	19.90	20.8
30		1	80	19.90	19.88	19.73	
30		1	158	19.76	19.84	19.76	
30		80	1	19.86	20.01	19.93	20.8
30		80	40	19.91	19.80	19.79	
30		80	80	19.92	19.76	19.83	
30		160	0	19.98	19.77	19.77	
30	DFT-s-OFDM 16QAM	1	1	20.03	20.06	19.99	20.80
30	DFT-s-OFDM 64QAM	1	1	18.52	18.52	18.43	19.80
30	DFT-s-OFDM 256QAM	1	1	16.49	16.47	16.35	16.80
30	CP-OFDM QPSK	1	1	19.43	19.45	19.33	19.80
30	CP-OFDM 16QAM	1	1	18.76	18.73	18.69	19.80
30	CP-OFDM 64QAM	1	1	17.46	17.43	17.35	17.80
30	CP-OFDM 256QAM	1	1	14.40	14.42	14.33	14.80
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.58	19.75	19.71	20.80
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM QPSK	1	1	19.82	19.72	19.69	20.80
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM QPSK	1	1	19.94	19.84	19.85	20.80
Channel				342500	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM QPSK	1	1	19.94	19.79	19.82	20.80

B5_n77(3450-3550MHz) (PC2)_20dB_ ANT10							
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					633334		
Frequency (MHz)					3500.01		
100	DFT-s-OFDM PI/2 BPSK	1	1		20.06		20.8
100		1	136		19.67		
100		1	271		19.54		
100		135	1		19.42		20.8
100		135	67		19.78		
100		135	136		18.97		
100		270	0		19.34		
100	DFT-s-OFDM QPSK	1	1		20.13		20.8
100		1	136		19.69		
100		1	271		19.45		
100		135	1		20.00		20.8
100		135	67		19.65		
100		135	136		18.60		
100		270	0		18.59		
100	DFT-s-OFDM 16QAM	1	1		18.19		18.80
100	DFT-s-OFDM 64QAM	1	1		17.09		17.80
100	DFT-s-OFDM 256QAM	1	1		15.07		15.80
100	CP-OFDM QPSK	1	1		17.55		18.80
100	CP-OFDM 16QAM	1	1		17.13		17.80
100	CP-OFDM 64QAM	1	1		16.65		17.80
100	CP-OFDM 256QAM	1	1		13.42		13.80
Channel				632668	633334	634000	Tune-up limit
Frequency (MHz)				3490.02	3500.01	3510	(dBm)
80	DFT-s-OFDM QPSK	1	1	19.79	19.74	19.70	20.80
Channel				632000	633334	634666	Tune-up limit
Frequency (MHz)				3480	3500.01	3519.99	(dBm)
60	DFT-s-OFDM QPSK	1	1	19.55	19.48	19.62	20.80
Channel				631334	633334	635332	Tune-up limit
Frequency (MHz)				3470.01	3500.01	3529.98	(dBm)
40	DFT-s-OFDM QPSK	1	1	19.92	19.65	19.67	20.80
Channel				631000	633334	635666	Tune-up limit
Frequency (MHz)				3465	3500.01	3534.99	(dBm)
30	DFT-s-OFDM QPSK	1	1	19.97	19.82	19.71	20.80
Channel				630668	633334	636000	Tune-up limit
Frequency (MHz)				3460.02	3500.01	3540	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.87	19.74	19.54	20.80

B5_n77(3700-3980MHz) (PC2)_ANT10

BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel	Tune-up limit
Channel				650000	656000	662000	(dBm)
Frequency (MHz)				3750	3840	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	19.98	19.58	19.76	20.8
100		1	136	19.44	18.62	18.66	
100		1	271	19.30	19.48	18.61	
100		135	1	19.41	19.08	19.16	20.8
100		135	67	19.39	18.82	19.44	
100		135	136	18.75	18.96	19.08	
100		270	0	19.09	19.26	19.01	
100	DFT-s-OFDM QPSK	1	1	19.94	20.03	19.73	20.8
100		1	136	19.40	19.60	18.51	
100		1	271	19.09	19.19	18.53	
100		135	1	19.43	19.75	19.31	20.8
100		135	67	19.46	18.80	18.46	
100		135	136	18.31	18.01	17.55	
100		270	0	18.61	18.44	18.47	
100	DFT-s-OFDM 16QAM	1	1	18.65	18.45	17.67	19.80
100	DFT-s-OFDM 64QAM	1	1	17.13	15.97	16.19	17.80
100	DFT-s-OFDM 256QAM	1	1	15.00	14.06	14.23	15.80
100	CP-OFDM QPSK	1	1	18.09	16.89	17.08	18.80
100	CP-OFDM 16QAM	1	1	17.61	17.44	16.67	18.80
100	CP-OFDM 64QAM	1	1	16.21	16.02	16.19	16.80
100	CP-OFDM 256QAM	1	1	13.07	13.05	13.25	13.80
Channel				649334	656000	662666	Tune-up limit
Frequency (MHz)				3740.01	3840	3939.99	(dBm)
80	DFT-s-OFDM QPSK	1	1	19.57	19.07	19.14	20.80
Channel				648668	656000	663332	Tune-up limit
Frequency (MHz)				3730.02	3840	3949.98	(dBm)
60	DFT-s-OFDM QPSK	1	1	19.65	18.73	19.47	20.80
Channel				648000	656000	664000	Tune-up limit
Frequency (MHz)				3720	3840	3960	(dBm)
40	DFT-s-OFDM QPSK	1	1	19.57	18.90	19.30	20.80
Channel				647668	656000	664332	Tune-up limit
Frequency (MHz)				3715.02	3840	3964.98	(dBm)
30	DFT-s-OFDM QPSK	1	1	19.88	18.91	19.45	20.80
Channel				647334	656000	664666	Tune-up limit
Frequency (MHz)				3710.01	3840	3969.99	(dBm)
20	DFT-s-OFDM QPSK	1	1	19.81	19.04	19.16	20.80



Module	Channel	Frequency (MHz)	Average power (mW)	Time (min)	Power Status	Self-Check No.
802.11a-MIPS	CH 38	5180	13.45	14.00	12.30	
	CH 44	5220	13.83	14.00	12.35	95.54
	CH 46	5260	13.85	14.00	12.35	
	CH 48	5300	12.85	13.00	12.30	
802.11a-11220 MCS0	CH 44	5220	12.60	13.00	12.30	95.44
	CH 46	5240	12.67	13.00	12.30	
	CH 48	5260	13.78	14.00	12.30	
	CH 46	5280	13.11	14.00	12.30	95.86
802.11a-11220 MCS0	CH 38	5180	12.83	13.00	12.30	
	CH 44	5220	12.66	13.00	12.30	95.45
	CH 46	5240	12.68	13.00	12.30	
	CH 48	5300	13.15	14.00	12.30	
802.11ac-11220 MCS0	CH 46	5280	13.52	14.00	12.30	95.91
	CH 48	5320	13.10	13.00	12.30	

Module	Channel	Frequency (MHz)	Assignment (dBm)	Transmit (dBm)	Power Setting	Cycle Count
5.2GHz WLAN ANT B	CH 28	5160	12.84	13.00	12.50	
	CH 44	5220	12.80	12.50	12.50	95.54
	CH 48	5280	12.39	12.50	12.50	
	CH 30	5180	13.84	12.50	12.50	
	CH 44	5220	11.65	12.00	12.00	95.44
	CH 48	5240	11.77	12.50	12.50	
	CH 30	5160	12.37	12.50	12.50	95.88
	CH 46	5230	12.21	12.50	12.50	
	CH 30	5180	11.80	12.50	12.50	
	CH 42	5210	11.67	12.50	12.50	95.45
	CH 46	5240	11.69	12.00	12.00	
	CH 30	5160	12.24	12.50	12.50	95.91
5.2GHz WLAN ANT A	CH 46	5230	12.21	12.50	12.50	
	CH 42	5210	12.23	12.50	12.50	
	CH 46	5240	12.23	12.50	12.50	

Wave	Channel	Frequency (MHz)	Resonance (MHz)	Temp/Loss (dBm)	Power Setting	duty Cycle %
5.0Vpp, 100ns MMIO	802.11a-BKaps	CH 10	N/A	N/A	N/A	
		CH 44	5200	N/A	N/A	N/A
		CH 46	5800	N/A	N/A	N/A
	802.11n-40MHz	CH 30	5180	15.14	15.00	12.00
		CH 44	5200	15.11	15.00	12.00
		CH 46	5240	14.97	15.00	12.00
	802.11n-40MHz	CH 30	5180	15.72	15.00	12.00
		CH 44	5200	15.68	15.00	12.00
		CH 46	5240	15.16	15.00	12.00
	802.11n-40MHz	CH 30	5180	14.98	15.00	12.00
802.11a-20MHz	802.11a-20MHz	CH 10	N/A	15.76	15.00	12.00
		CH 46	5200	15.65	16.00	12.00
	802.11n-40MHz	CH 30	5180	15.68	15.00	12.00
		CH 46	5200	15.68	16.00	12.00

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-on-Freq. (s)	Power Spectral Density (dBm/MHz)	Daily Cycle (%)
5.8GHz WLAN ANT 8	802.11a 54Mbps	CH52	5200	13.28	14.00	12.30	95.00
		CH53	5250	12.95	13.00	12.30	
		CH54	5300	12.70	13.00	12.30	
		CH55	5350	12.60	13.00	12.30	
	802.11n HT40 MCS9	CH52	5200	12.70	13.00	12.30	98.90
		CH53	5250	12.60	13.00	12.30	
		CH54	5300	11.90	13.00	12.30	
		CH55	5350	11.80	13.00	12.30	
	802.11n HT40 MCS9	CH54	5370	12.30	13.00	12.30	95.80
		CH55	5410	12.12	13.00	12.30	
		CH56	5450	12.10	13.00	12.30	
		CH57	5490	11.98	13.00	12.30	
	802.11n HT40 MCS9	CH54	5370	11.66	12.00	12.30	97.94
		CH55	5410	11.66	12.00	12.30	
		CH56	5450	12.28	13.00	12.30	
		CH57	5490	12.18	13.00	12.30	
	802.11n HT40 MCS9	CH58	5570	12.18	13.00	12.30	95.92
		CH59	5610	12.10	13.00	12.30	
		CH5A	5650	12.10	13.00	12.30	
		CH5B	5690	12.10	13.00	12.30	

Module	Channel	Frequency (MHz)	Assignment pattern	Time Slot	Power Setting	Daily Cycle (%)
802.11a @Mbps	CH-52	5260	12, 18	13, 20	13, 20	95.00
	CH-50	5300	12, 15	13, 20	13, 20	
	CH-54	5340	12, 18	13, 20	13, 20	
	CH-52	5380	15, 20	13, 20	13, 20	
802.11a-11220 MCS0	CH-52	5260	15, 20	13, 20	13, 20	95.00
	CH-50	5300	11, 45	12, 20	12, 20	
	CH-54	5320	11, 15	12, 20	12, 20	
	CH-54	5370	12, 44	12, 24	12, 24	
802.11a-11220 MCS1	CH-52	5310	12, 48	13, 20	13, 20	95.00
	CH-50	5280	11, 48	12, 20	12, 20	
	CH-50	5360	11, 48	12, 20	12, 20	
	CH-54	5380	12, 17	13, 20	13, 20	
802.11a-11220 MCS3	CH-54	5270	12, 48	13, 20	13, 20	95.00
	CH-52	5310	12, 42	13, 20	13, 20	
	CH-50	5330	12, 18	13, 20	13, 20	
	CH-50	5350	12, 18	13, 20	13, 20	
802.11a-11220 MCS0	CH-52	5310	12, 48	13, 20	13, 20	91.84

Wide	Channel	Frequency (MHz)	Resonance (MHz)	Trans-Loss (dB)	Power Rating	Duty Cycle %
5.5Vpp, 100kV, 100W	802-1a-6Bbps	CH 02	5200	N/A	N/A	N/A
		CH 02	5200	N/A	N/A	N/A
		CH 04	5200	N/A	N/A	N/A
		CH 02	5200	16.90	15.00	12.00
	802-1a-H20 MC30	CH 02	5200	14.78	15.00	12.00
		CH 04	5200	14.70	15.00	12.00
		CH 02	5200	14.70	15.00	12.00
	802-1a-H20 MC30	CH 02	5210	15.31	16.00	12.00
		CH 02	5200	14.80	15.00	12.00
		CH 04	5200	14.74	15.00	12.00
5.5Vpp, 100kV, 100W	802-1a-VH20 MC30	CH 02	5200	14.82	15.00	12.00
		CH 04	5200	14.82	15.00	12.00
		CH 02	5210	15.30	16.00	12.00
	802-1a-VH20 MC30	CH 02	5210	15.31	16.00	12.00
		CH 04	5210	15.31	16.00	12.00
		CH 02	5200	14.84	15.00	12.00
	802-1a-VH20 MC30	CH 02	5200	14.82	15.00	12.00
		CH 04	5200	14.82	15.00	12.00
		CH 02	5210	15.31	16.00	12.00
	802-1a-VH20 MC30	CH 02	5210	15.31	16.00	12.00

Mode	Channel	Frequency (MHz)	Antenna power (dBm)	Time to lock (s)	Power Status	Delay Cycle (s)
802.11a 6Mbps	CH 120	5850	13.07	14.00	11.50	95.00
	CH 122	5900	13.17	14.00	11.50	
	CH 144	5720	<u>12.65</u>	13.50	11.50	
	CH 150	5800	<u>12.52</u>	13.50	11.50	
802.11n HT20 MCS0	CH 120	5850	13.76	13.50	11.50	95.00
	CH 122	5900	13.65	14.00	11.50	
	CH 144	5720	13.05	14.00	11.50	
	CH 150	5810	13.11	14.00	11.50	
802.11n HT40 MCS0	CH 120	5850	13.00	14.00	11.50	95.00
	CH 142	5710	12.77	13.50	11.50	
	CH 150	5800	12.68	13.50	11.50	
	CH 152	5860	12.68	13.50	11.50	
802.11n HT20 MCS8	CH 120	5850	12.68	13.50	11.50	97.04
	CH 144	5720	12.31	13.50	11.50	
	CH 152	5810	12.50	14.00	11.50	
	CH 158	5820	12.50	14.00	11.50	
802.11n HT20 MCS9	CH 120	5850	12.68	13.50	11.50	96.91
	CH 144	5710	12.73	13.50	11.50	
	CH 158	5830	12.66	13.50	11.50	
	CH 152	5810	12.76	13.50	11.50	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-on-Air (min)	Power Setting	Daily Cycle (%)
5.6GHz WLAN ANT 9	802.11aMbps	CH 100	5000	12.18	13.00	11.50	96.08
		CH 120	5600	13.07	14.00	11.50	
		CH 144	5720	13.48	14.00	11.50	
	802.11n-HT20 MCS9	CH 100	5000	11.69	12.50	11.50	96.44
		CH 120	5600	12.58	13.00	11.50	
		CH 144	5720	12.88	13.50	11.50	
	802.11n-HT40 MCS9	CH 100	5010	12.18	13.00	11.00	95.88
		CH 120	5630	12.50	13.00	11.00	
		CH 142	5710	12.43	13.00	11.00	
	802.11n-HT20 MCS9	CH 100	5000	11.81	12.50	11.00	97.04
		CH 120	5600	11.91	13.00	11.00	
		CH 144	5720	12.36	13.00	11.00	
802.11n-HT40 MCS9	CH 100	5010	12.41	12.50	11.00	96.91	
	CH 120	5630	12.48	13.00	11.00		
	CH 142	5710	12.43	13.00	11.00		
802.11n-HT80 MCS9	CH 100	5030	11.91	12.50	11.00	92.06	
	CH 122	5610	12.55	13.00	11.00		

	Mode	Channel	Frequency (MHz)	Average power (mW)	Turn-on time (ms)	Power density	Duty Cycle %
S-Band, 16.45 GHz MMQ	802.11a-MQps	CH 120	5000	N/A	N/A	N/A	N/A
		CH 121	5000	N/A	N/A	N/A	
		CH 144	5200	N/A	N/A	N/A	
	802.11n-HT20 MCS0	CH 130	5500	14.24	15.00	10	98.44
		CH 131	5500	14.24	15.00	10	
		CH 144	5700	15.28	16.00	10	
	802.11n-HT40 MCS0	CH 132	5610	15.81	16.00	11	98.28
		CH 136	5630	15.72	16.00	11	
		CH 142	5710	15.51	16.00	11	
	802.11ac-VHT20 MCS0	CH 130	5500	14.22	15.00	10	97.94
		CH 136	5600	14.50	15.00	10	
		CH 144	5700	14.36	15.00	10	
	802.11ac-VHT40 MCS0	CH 132	5610	15.42	16.00	11	95.91
		CH 136	5630	15.32	16.00	11	
		CH 142	5710	15.54	16.00	11	
S-Band, 16.45 GHz MMQ	802.11ac-VHT80 MCS0	CH 136	5630	15.40	16.00	11	93.98
		CH 122	5610	15.64	16.00	11	

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-on (min)	Power Status	State Cycle No.
5.8GHz WLAN ANT 8	BID 1-16MHz	CH 149	8740	13.44	14.00	11.90
		CH 157	8760	12.80	13.00	11.90
		CH 160	8920	12.80	13.00	11.90
		CH 144	8680	12.80	13.00	11.90
	BID 1-1720 MHz	CH 157	8760	12.17	13.00	11.90
		CH 160	8920	12.17	13.00	11.90
	BID 1-1740 MHz	CH 151	8700	12.93	13.00	11.90
		CH 159	8760	12.93	13.00	11.90
		CH 140	8740	12.82	13.00	11.90
		CH 155	8710	12.16	13.00	11.90
BID 1-1400MHz	BID 1-1400MHz	CH 155	8710	12.16	13.00	11.90
		CH 151	8700	12.93	13.00	11.90
		CH 159	8760	12.93	13.00	11.90
		CH 140	8740	12.82	13.00	11.90

	Module	Channel	Frequency (MHz)	Antenna gain (dBi)	Transmit Linc (dBm)	Power Setting	Code Cycle (sec)
5-Channel WLAN ANT 9	B02 17a 60Mbps	CH 149	5745	13.50	14.00	11.50	
		CH 157	5785	13.27	13.50	11.50	95.54
		CH 165	5825	13.23	13.50	11.50	
	B02 17a-H22 MCS9	CH 149	5745	13.50	14.00	11.50	
		CH 157	5785	13.27	13.50	11.50	
		CH 165	5825	13.20	13.20	11.50	
	B02 17a-H22 MCS3	CH 151	5790	14.00	14.00	11.50	
		CH 159	5790	13.50	13.50	11.00	95.58
		CH 149	5745	12.98	13.50	11.00	
	B02 17a-H22 MCS9	CH 159	5790	13.23	13.50	11.00	
		CH 165	5825	13.21	13.21	11.00	95.45
		CH 151	5790	13.61	14.00	11.00	
	B02 17a-H22 MCS9	CH 159	5790	13.36	13.50	11.00	
		CH 165	5825	13.21	13.21	11.00	95.91
		CH 149	5745	12.98	13.50	11.00	

	Mode	Channel	Frequency (MHz)	Range (min-max)	Transmit Level	Power Setting	Duty Cycle %
4-Input 16.44 MHz	802.11a 54Mbps	CH 149	5245	N/A	N/A	N/A	
		CH 137	5255	N/A	N/A	N/A	N/A
		CH 150	5265	N/A	N/A	N/A	N/A
	802.11n HT20 MCS0	CH 137	5255	15.45	16.00	11.00	58.45
		CH 150	5265	15.20	15.50	11.00	
		CH 151	5275	15.40	15.60	11.00	
	802.11n HT40 MCS0	CH 139	5259	15.36	16.00	11.00	56.88
		CH 149	5245	15.93	16.50	11.00	
		CH 150	5255	15.53	16.00	11.00	58.45
	802.11n HT20 MCS0	CH 149	5245	15.77	15.50	11.00	
		CH 151	5275	15.80	17.00	11.00	55.97
		CH 150	5265	15.34	16.00	11.00	
	802.11n HT40 MCS0	CH 149	5245	15.76	16.00	11.00	56.88