

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	27.31	27.27	27.50	28.00	18.31	18.27	18.50	19.00
GPRS 1 Tx slot	27.32	27.29	27.52	28.00	18.32	18.29	18.52	19.00
GPRS 2 Tx slots	27.13	27.12	27.36	28.00	21.13	21.12	21.36	22.00
GPRS 3 Tx slots	27.33	27.21	27.20	28.00	23.07	22.95	22.94	23.74
GPRS 4 Tx slots	26.55	26.54	26.56	27.00	23.55	23.54	23.56	24.00
EDGE 1 Tx slot	25.33	25.23	25.37	26.00	16.33	16.23	16.37	17.00
EDGE 2 Tx slots	24.76	24.94	24.52	25.50	18.76	18.94	18.52	19.50
EDGE 3 Tx slots	24.90	24.96	24.69	25.50	20.64	20.70	20.43	21.24
EDGE 4 Tx slots	24.80	24.89	24.84	25.50	21.80	21.89	21.84	22.50
Date	Ant 2							

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	30.68	30.67	30.79	32.00	21.68	21.67	21.79	23.00
GPRS 1 Tx slot	30.71	30.69	30.82	32.00	21.71	21.69	21.82	23.00
GPRS 2 Tx slots	30.57	30.64	30.74	32.00	24.57	24.64	24.74	26.00
GPRS 3 Tx slots	30.51	30.63	30.68	32.00	26.25	26.37	26.42	27.74
GPRS 4 Tx slots	30.11	30.23	30.42	31.00	27.11	27.23	27.42	28.00
EDGE 1 Tx slot	24.35	24.55	24.78	25.50	15.35	15.55	15.78	16.50
EDGE 2 Tx slots	24.52	24.56	24.61	25.50	18.52	18.56	18.61	19.50
EDGE 3 Tx slots	24.49	24.37	24.50	25.50	20.23	20.11	20.24	21.24
EDGE 4 Tx slots	24.26	24.28	24.22	25.50	21.26	21.28	21.22	22.50
Date	Ant 0							

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	27.81	28.26	27.95	29.00	18.81	19.26	18.95	20.00
GPRS 1 Tx slot	27.78	28.24	27.91	29.00	18.78	19.24	18.91	20.00
GPRS 2 Tx slots	27.65	28.10	27.80	29.00	21.65	22.10	21.80	23.00
GPRS 3 Tx slots	27.53	27.95	27.66	29.00	23.27	23.69	23.40	24.74
GPRS 4 Tx slots	27.31	27.78	27.50	28.50	24.31	24.78	24.50	25.50
EDGE 1 Tx slot	22.99	23.71	23.09	24.00	13.99	14.71	14.09	15.00
EDGE 2 Tx slots	22.82	23.54	22.92	24.00	16.82	17.54	16.92	18.00
EDGE 3 Tx slots	22.67	23.29	22.77	24.00	18.41	19.03	18.51	19.74
EDGE 4 Tx slots	22.55	23.12	22.54	24.00	19.55	20.12	19.54	21.00
Antenna	Ant 8							

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	26.22	26.31	26.24	27.00	17.22	17.31	17.24	18.00
GPRS 1 Tx slot	26.23	26.32	26.26	27.00	17.23	17.32	17.26	18.00
GPRS 2 Tx slots	26.13	26.17	26.11	27.00	20.13	20.17	20.11	21.00
GPRS 3 Tx slots	26.01	26.00	26.12	27.00	21.75	21.74	21.86	22.74
GPRS 4 Tx slots	25.55	25.80	25.73	26.50	22.55	22.80	22.73	23.50
EDGE 1 Tx slot	24.57	24.58	24.52	25.00	15.57	15.58	15.52	16.00
EDGE 2 Tx slots	24.53	24.52	24.72	25.00	18.53	18.52	18.72	19.00
EDGE 3 Tx slots	24.39	24.43	24.49	25.00	20.13	20.17	20.23	20.74
EDGE 4 Tx slots	24.14	24.31	24.26	25.00	21.14	21.31	21.26	22.00
Mode		Max.	26.32			Max.	22.80	
Antenna	Ant 7							

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4183	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4408	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.6	846.6	
3GPP Rel 99	RMC 12.2Kbps	24.54	24.78	24.64	25.50	25.19	25.30	25.21	26.00	21.08	21.11	21.15	22.00
3GPP Rel 6	HSDPA Subtest-1	23.31	23.38	23.36	24.00	24.53	24.51	24.50	25.00	20.99	21.07	20.98	22.00
3GPP Rel 6	HSDPA Subtest-2	23.31	23.48	23.34	24.00	24.60	24.41	24.54	25.00	21.27	21.07	21.23	22.00
3GPP Rel 6	HSDPA Subtest-3	22.76	23.08	22.58	23.50	23.99	23.93	23.99	24.50	20.37	20.50	20.71	21.50
3GPP Rel 6	HSDPA Subtest-4	22.63	22.91	22.56	23.50	24.01	23.91	24.02	24.50	20.74	20.65	20.67	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.80	21.45	21.60	22.00	23.22	23.35	23.04	24.00	20.12	20.20	20.11	
3GPP Rel 8	DC-HSDPA Subtest-2	21.67	21.37	21.54	22.00	23.17	22.98	23.00	24.00	20.11	20.04	20.00	0.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.00	21.11	21.30	21.50	22.87	22.60	22.71	23.50	19.70	19.47	19.59	-0.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.05	21.12	21.04	21.50	22.65	22.58	22.58	23.50	19.68	19.72	19.60	-0.50
3GPP Rel 6	HSUPA Subtest-1	23.34	23.39	22.95	24.00	24.68	24.27	24.51	25.00	21.02	20.99	21.08	22.00
3GPP Rel 6	HSUPA Subtest-2	22.74	22.80	22.43	23.00	24.08	23.83	24.11	25.00	20.56	20.53	20.54	21.00
3GPP Rel 6	HSUPA Subtest-3	23.30	23.36	22.98	23.50	24.54	24.32	24.62	24.00	21.02	21.20	21.05	22.00
3GPP Rel 6	HSUPA Subtest-4	23.31	23.37	22.84	23.50	24.47	24.32	24.58	25.00	21.04	21.02	20.98	20.00
3GPP Rel 6	HSUPA Subtest-5	23.36	23.45	22.89	24.00	24.50	24.28	24.56	25.00	21.15	21.14	21.17	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	23.38	23.37	22.90	24.00	24.04	23.93	24.05	25.00	21.01	21.17	21.06	22.00
Antenna		Ant 8				Ant 8				Ant 2			

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4183	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4408	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.6	846.6	
3GPP Rel 99	RMC 12.2Kbps	18.32	18.46	18.42	19.00	18.44	18.61	18.54	19.00	24.28	24.30	24.34	25.00
3GPP Rel 6	HSDPA Subtest-1	18.08	18.13	18.12	19.00	17.51	17.63	17.61	18.00	23.21	23.17	23.18	24.00
3GPP Rel 6	HSDPA Subtest-2	18.10	18.15	18.08	19.00	17.56	17.58	17.64	18.00	23.22	23.18	23.19	24.00
3GPP Rel 6	HSDPA Subtest-3	17.44	17.57	17.57	18.50	17.04	17.11	17.18	17.50	22.72	22.63	22.68	23.50
3GPP Rel 6	HSDPA Subtest-4	17.55	17.65	17.45	18.50	16.99	17.13	17.12	17.50	22.66	22.67	22.56	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	17.10	17.30	17.32	18.00	16.93	16.60	16.63	17.50	22.56	22.74	22.80	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	17.78	17.50	17.41	18.00	16.44	16.52	16.53	17.50	22.41	22.50	22.57	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	17.26	17.44	17.21	17.50	16.00	16.21	16.20	17.00	22.14	22.31	22.31	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	17.42	17.25	17.34	17.50	16.34	16.27	16.31	17.00	22.18	22.05	22.14	23.00
3GPP Rel 6	HSUPA Subtest-1	18.11	18.12	18.16	19.00	17.54	17.66	17.64	18.00	23.15	23.20	23.15	24.00
3GPP Rel 6	HSUPA Subtest-2	17.46	17.64	17.07	18.00	16.99	17.17	17.14	17.50	22.69	22.67	22.64	23.00
3GPP Rel 6	HSUPA Subtest-3	18.01	18.07	18.12	19.00	17.67	17.69	17.69	18.00	23.23	23.21	23.17	24.00
3GPP Rel 6	HSUPA Subtest-4	18.06	18.03	18.08	19.00	17.52	17.59	17.61	18.00	23.17	23.26	23.15	24.00
3GPP Rel 6	HSUPA Subtest-5	18.06	18.07	18.13	19.00	17.54	17.61	17.67	18.00	23.22	23.16	23.13	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.07	18.12	18.11	19.00	17.60	17.64	17.63	18.00	23.26	23.25	23.17	24.00
Antenna		Ant 7				Ant 7				Ant 0			

Band 2 (Ant 8)												
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Turn-up limit (dBm)					
Channel												
Frequency (MHz)												
20	QPSK	1	0	18670	18690	18690	24.5					
20	QPSK	1	49	23.05	23.94	23.85						
20	QPSK	1	99	23.05	23.82	23.71						
20	QPSK	50	0	22.56	22.65	22.38	23.5					
20	QPSK	50	24	22.62	22.64	22.41						
20	QPSK	50	50	22.38	22.56	22.61						
20	QPSK	100	0	22.62	22.41	22.67	23.5					
20	16QAM	1	0	22.26	22.38	22.54						
20	16QAM	1	49	22.77	22.56	22.53						
20	16QAM	1	99	22.19	22.31	22.75	23.5					
20	16QAM	50	0	22.05	22.27	22.54						
20	16QAM	50	24	22.62	22.71	22.54						
20	16QAM	50	50	22.54	22.84	22.94	23.5					
20	16QAM	100	0	22.56	22.62	22.63						
20	64QAM	1	0	22.45	22.42	22.73						
20	64QAM	1	49	22.34	22.36	22.46	23.5					
20	64QAM	1	99	22.36	22.37	22.30						
20	64QAM	50	0	22.56	22.52	22.62						
20	64QAM	50	24	22.71	22.73	22.56	23.5					
20	64QAM	50	50	22.42	22.65	22.46						
20	64QAM	100	0	22.66	22.67	22.38						
Channel												
Frequency (MHz)												
15	QPSK	1	0	18675	18690	18690	24.5					
15	QPSK	1	37	23.81	23.75	23.45						
15	QPSK	1	74	23.64	23.69	23.29						
15	QPSK	36	0	22.99	22.53	22.65	23.5					
15	QPSK	36	20	22.65	22.77	22.67						
15	QPSK	36	39	22.74	22.47	22.87						
15	QPSK	75	0	22.61	22.21	22.65	23.5					
15	16QAM	1	0	22.56	22.38	22.15						
15	16QAM	1	37	22.54	22.58	22.57						
15	16QAM	1	74	22.71	22.46	22.29	23.5					
15	16QAM	36	0	22.65	22.81	22.49						
15	16QAM	36	20	22.56	22.54	22.87						
15	16QAM	36	39	22.62	22.64	22.61	23.5					
15	16QAM	75	0	22.64	22.35	22.76						
15	64QAM	1	0	22.35	22.48	22.29						
15	64QAM	1	37	22.64	22.86	22.13	23.5					
15	64QAM	1	74	22.68	22.46	22.37						
15	64QAM	36	0	22.62	22.62	22.56						
15	64QAM	36	20	22.72	22.56	22.48	23.5					
15	64QAM	36	39	22.62	22.64	22.54						
15	64QAM	75	0	22.62	22.71	22.64						
Channel												
Frequency (MHz)												
10	QPSK	1	0	18675	18690	18690	24.5					
10	QPSK	1	25	24.02	23.94	23.66						
10	QPSK	1	49	24.01	23.62	23.64						
10	QPSK	25	0	22.81	22.67	22.61	23.5					
10	QPSK	25	12	22.62	22.65	22.77						
10	QPSK	25	25	22.53	22.58	22.64						
10	QPSK	50	0	22.67	22.53	22.91	23.5					
10	16QAM	1	0	22.72	22.55	22.66						
10	16QAM	1	25	22.74	22.71	22.25						
10	16QAM	1	49	22.66	22.65	22.10	23.5					
10	16QAM	25	0	22.09	22.56	22.45						
10	16QAM	25	12	22.25	22.77	22.60						
10	16QAM	25	25	22.29	22.86	22.56	23.5					
10	16QAM	50	0	22.45	22.65	22.35						
10	64QAM	1	0	22.63	22.76	22.64						
10	64QAM	1	25	22.54	22.70	22.17	23.5					
10	64QAM	1	49	22.27	22.38	22.33						
10	64QAM	25	0	22.54	22.48	22.55						
10	64QAM	25	12	22.60	22.67	22.35	23.5					
10	64QAM	25	25	22.45	22.65	22.46						
10	64QAM	50	0	22.53	22.62	22.38						
Channel												
Frequency (MHz)												
5	QPSK	1	0	18675	18690	18690	24.5					
5	QPSK	1	12	23.98	23.61	23.64						
5	QPSK	1	24	24.06	23.63	23.51						
5	QPSK	12	0	22.55	22.54	22.54	23.5					
5	QPSK	12	7	22.62	22.67	22.51						
5	QPSK	12	13	22.54	22.73	22.57						
5	QPSK	25	0	22.62	22.60	22.66	23.5					
5	16QAM	1	0	22.57	22.48	22.63						
5	16QAM	1	12	22.59	22.58	22.54						
5	16QAM	1	24	22.62	22.62	22.45	23.5					
5	16QAM	12	0	22.61	22.64	22.72						
5	16QAM	12	7	22.56	22.83	22.26						
5	16QAM	12	13	22.25	22.61	22.72	23.5					
5	16QAM	25	0	22.14	22.74	22.64						
5	64QAM	1	0	22.26	22.58	22.81						
5	64QAM	1	12	22.54	22.68	22.62	23.5					
5	64QAM	1	24	22.64	22.77	22.59						
5	64QAM	12	0	22.51	22.64	22.43						
5	64QAM	12	7	22.62	22.37	22.59	23.5					
5	64QAM	12	13	22.54	22.68	22.62						
5	64QAM	25	0	22.66	22.65	22.24						
Channel												
Frequency (MHz)												
3	QPSK	1	0	18675	18690	18690	24.5					
3	QPSK	1	8	23.92	23.51	23.94						
3	QPSK	1	14	23.93	23.52	23.85						
3	QPSK	8	0	22.56	22.42	22.89	23.5					
3	QPSK	8	4	22.61	22.61	22.50						
3	QPSK	8	7	22.53	22.51	22.92						
3	QPSK	15	0	22.90	22.64	22.62	23.5					
3	16QAM	1	0	22.62	22.59	22.37						
3	16QAM	1	8	22.57	22.62	22.34						
3	16QAM	1	14	22.46	22.57	22.55	23.5					
3	16QAM	8	0	22.68	22.56	22.62						
3	16QAM	8	4	22.73	22.59	22.54						
3	16QAM	8	7	22.68	22.68	22.62	23.5					
3	16QAM	15	0	22.66	22.68	22.62						
3	64QAM	1	0	22.75	22.91	22.50						
3	64QAM	1	8	22.68	22.57	22.21	23.5					
3	64QAM	1	14	22.40	22.49	22.13						
3	64QAM	8	0	22.62	22.56	22.62						
3	64QAM	8	4	22.58	22.45	22.54	23.5					
3	64QAM	8	7	22.62	22.62	22.46						
3	64QAM	15	0	22.25	22.53	22.57						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	18677	18690	18690	24.5					
1.4	QPSK	1	5	23.88	23.56	23.34						
1.4	QPSK	1	5	23.86	23.50	23.08						
1.4	QPSK	3	0	22.80	22.29	22.72	23.5					
1.4	QPSK	3	1	22.43	22.60	22.85						
1.4	QPSK	3	3	22.56	22.81	22.65						
1.4	QPSK	6	0	22.39	22.44	22.94	23.5					
1.4	16QAM	1	0	22.95	22.62	22.35						
1.4	16QAM	1	3	22.48	22.52	22.64						
1.4	16QAM	3	0	22.29	22.36	22.85	23.5					
1.4	16QAM	3	1	22.50	22.75	22.48						
1.4	16QAM	3	3	22.60	22.79	22.62						
1.4	16QAM	6	0	22.61	22.61	22.50	23.5					
1.4	16QAM	6	7	22.68	22.68	22.62						
1.4	64QAM	1	0	22.78	22.34	22.61						
1.4	64QAM	1	3	22.26	22.62	22.62	23.5					
1.4	64QAM	1	5	22.62	22.86	22.40						
1.4	64QAM	3	0	22.46	22.49	22.94						
1.4	64QAM	3	3	22.44	22.72	22.48	23.5					
1.4	64QAM	3	3	22.44	22.72	22.53						
1.4	64QAM	6	0	22.51	22.62	22.62						

Band 5 (Ant 2)									
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				20400	20505	20600			
Frequency (MHz)				826.5	836.5	844			
10	QPSK	1	0	24.34	24.47	24.16	25		
10	QPSK	1	25	24.21	24.32	24.34			
10	QPSK	1	40	24.22	24.15	24.09			
10	QPSK	25	0	23.20	23.32	23.21	24		
10	QPSK	25	12	23.24	23.23	23.19			
10	QPSK	25	25	23.32	23.19	23.28			
10	QPSK	50	0	23.26	23.23	23.31	23		
10	16QAM	1	0	23.59	23.29	23.68			
10	16QAM	1	25	23.25	23.23	23.27			
10	16QAM	1	40	23.54	23.35	23.48	24		
10	16QAM	25	0	22.26	22.24	22.31			
10	16QAM	25	12	22.32	22.25	22.32			
10	16QAM	25	25	22.29	22.31	22.25	23		
10	16QAM	50	0	22.31	22.30	22.22			
10	64QAM	1	0	22.40	22.61	22.35			
10	64QAM	1	25	22.31	22.53	22.54	23		
10	64QAM	1	40	22.56	22.42	22.22			
10	64QAM	25	0	22.23	22.21	22.15			
10	64QAM	25	12	22.33	22.21	22.15	23		
10	64QAM	25	25	22.21	22.31	22.20			
10	64QAM	50	0	22.28	22.29	22.24			
Channel				20425	20525	20625	Tune-up limit (dBm)		
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	24.22	24.07	24.09	25		
5	QPSK	1	12	24.26	24.05	24.11			
5	QPSK	1	24	24.20	24.21	23.97			
5	QPSK	12	0	23.32	23.26	23.20	24		
5	QPSK	12	7	23.25	23.23	23.20			
5	QPSK	12	13	23.28	23.20	23.21			
5	QPSK	25	0	23.26	23.31	23.20	24		
5	16QAM	1	0	23.36	23.38	23.66			
5	16QAM	1	12	23.27	23.42	23.30			
5	16QAM	1	24	23.27	23.21	23.68	24		
5	16QAM	12	0	22.20	22.14	22.30			
5	16QAM	12	7	22.34	22.32	22.24			
5	16QAM	12	13	22.27	22.32	22.30	23		
5	16QAM	25	0	22.34	22.31	22.09			
5	64QAM	1	0	22.54	22.61	22.34			
5	64QAM	1	12	22.55	22.51	22.28	23		
5	64QAM	1	24	22.42	22.45	22.33			
5	64QAM	12	0	22.19	22.16	22.17			
5	64QAM	12	13	22.22	22.21	22.27	23		
5	64QAM	12	13	22.22	22.21	22.27			
5	64QAM	25	0	22.20	22.28	22.22			
Channel				20415	20505	20635	Tune-up limit (dBm)		
Frequency (MHz)				826.5	836.5	847.5			
3	QPSK	1	0	24.14	24.05	24.02	25		
3	QPSK	1	8	24.21	24.11	24.03			
3	QPSK	1	14	24.03	24.11	24.07			
3	QPSK	8	0	23.23	23.17	23.22	24		
3	QPSK	8	4	23.22	23.20	23.20			
3	QPSK	8	7	23.26	23.24	23.21			
3	QPSK	16	0	23.19	23.23	23.10	24		
3	16QAM	1	0	23.40	23.60	23.37			
3	16QAM	1	8	23.66	23.60	23.33			
3	16QAM	1	14	23.49	23.52	23.29	23		
3	16QAM	8	0	22.25	22.19	22.31			
3	16QAM	8	4	22.39	22.23	22.09			
3	16QAM	8	7	22.11	22.24	22.25	23		
3	16QAM	16	0	22.26	22.32	22.24			
3	64QAM	1	0	22.44	22.34	22.34			
3	64QAM	1	8	22.35	22.24	22.51	23		
3	64QAM	1	14	22.35	22.51	22.45			
3	64QAM	8	0	22.29	22.12	22.07			
3	64QAM	8	4	22.16	22.46	22.15	23		
3	64QAM	8	7	22.35	22.16	22.23			
3	64QAM	16	0	22.24	22.23	22.16			
Channel				20407	20505	20643	Tune-up limit (dBm)		
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	24.04	24.05	24.06	25		
1.4	QPSK	1	3	24.11	24.08	24.06			
1.4	QPSK	1	5	23.96	24.08	23.96			
1.4	QPSK	3	0	24.06	24.06	24.05	24		
1.4	QPSK	3	1	24.08	24.08	24.02			
1.4	QPSK	3	3	24.01	24.12	23.95			
1.4	QPSK	6	0	23.11	23.12	23.08	24		
1.4	16QAM	1	0	23.59	23.39	23.34			
1.4	16QAM	1	3	23.70	23.68	23.35			
1.4	16QAM	1	5	23.08	23.48	23.30	24		
1.4	16QAM	3	0	23.03	23.07	23.18			
1.4	16QAM	3	1	23.08	23.15	23.18			
1.4	16QAM	3	3	23.05	23.05	23.04	23		
1.4	16QAM	6	0	22.26	22.25	22.28			
1.4	64QAM	1	0	22.65	22.41	22.39			
1.4	64QAM	1	3	22.28	22.65	22.38	23		
1.4	64QAM	1	5	22.54	22.54	22.24			
1.4	64QAM	3	0	22.35	22.42	22.32			
1.4	64QAM	3	1	22.26	22.26	22.39	23		
1.4	64QAM	3	3	22.45	22.34	22.34			
1.4	64QAM	6	0	22.36	22.28	22.54			

Band 5 (Ant 0)									
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				20450	20505	20600			
Frequency (MHz)				826.5	836.5	844			
10	QPSK	1	0	22.36	22.69	22.40	23.5		
10	QPSK	1	25	22.43	22.44	22.56			
10	QPSK	1	49	22.44	22.37	22.31			
10	QPSK	25	0	21.42	21.54	21.43	22.5		
10	QPSK	25	12	21.46	21.45	21.41			
10	QPSK	25	25	21.54	21.41	21.50			
10	QPSK	50	0	21.50	21.45	21.53	22.5		
10	16QAM	1	0	21.81	21.51	21.90			
10	16QAM	1	25	21.47	21.45	21.49			
10	16QAM	1	49	21.76	21.57	21.70	23.5		
10	16QAM	25	0	20.48	20.46	20.53			
10	16QAM	25	12	20.54	20.47	20.54			
10	16QAM	25	25	20.50	20.53	20.47	23.5		
10	16QAM	50	0	20.53	20.52	20.44			
10	64QAM	1	0	20.62	20.83	20.57			
10	64QAM	1	25	20.53	20.75	20.76	23.5		
10	64QAM	1	49	20.78	20.64	20.44			
10	64QAM	25	0	20.45	20.63	20.42			
10	64QAM	25	12	20.55	20.43	20.37	23.5		
10	64QAM	25	25	20.43	20.53	20.42			
10	64QAM	50	0	20.50	20.51	20.46			
Channel				20425	20525	20625	Tune-up limit (dBm)		
Frequency (MHz)				826.5	836.5	844.5			
5	QPSK	1	0	22.44	22.29	22.31	23.5		
5	QPSK	1	24	22.46	22.27	22.33			
5	QPSK	1	24	22.42	22.43	22.19			
5	QPSK	12	0	21.54	21.48	21.42	22.5		
5	QPSK	12	7	21.47	21.45	21.42			
5	QPSK	12	13	21.50	21.42	21.43			
5	QPSK	25	0	21.48	21.53	21.42	22.5		
5	16QAM	1	0	21.58	21.60	21.88			
5	16QAM	1	12	21.59	21.64	21.52			
5	16QAM	1	24	21.69	21.63	21.60	23.5		
5	16QAM	12	0	20.42	20.39	20.32			
5	16QAM	12	7	20.56	20.54	20.46			
5	16QAM	12	13	20.49	20.54	20.52	23.5		
5	16QAM	25	0	20.56	20.53	20.31			
5	64QAM	1	0	20.78	20.83	20.56			
5	64QAM	1	12	20.77	20.78	20.70	23.5		
5	64QAM	1	24	20.64	20.67	20.55			
5	64QAM	12	0	20.41	20.38	20.39			
5	64QAM	12	7	20.53	20.46	20.39	23.5		
5	64QAM	12	13	20.44	20.43	20.49			
5	64QAM	25	0	20.42	20.43	20.44			
Channel				20415	20515	20615	Tune-up limit (dBm)		
Frequency (MHz)				825.5	835.5	843.5			
3	QPSK	1	0	22.36	22.27	22.24	23.5		
3	QPSK	1	8	22.43	22.33	22.25			
3	QPSK	1	14	22.25	22.33	22.29			
3	QPSK	8	0	21.45	21.43	21.44	22.5		
3	QPSK	8	4	21.44	21.42	21.42			
3	QPSK	8	7	21.48	21.46	21.43			
3	QPSK	15	0	21.41	21.45	21.32	22.5		
3	16QAM	1	0	21.62	21.82	21.59			
3	16QAM	1	8	21.68	21.74	21.60			
3	16QAM	1	14	21.71	21.74	21.65	23.5		
3	16QAM	8	0	20.47	20.41	20.53			
3	16QAM	8	7	20.33	20.46	20.47			
3	16QAM	15	0	20.48	20.54	20.46	23.5		
3	16QAM	1	1	20.66	20.36	20.36			
3	16QAM	1	8	20.57	20.46	20.73			
3	64QAM	1	14	20.57	20.73	20.67	23.5		
3	64QAM	8	0	20.51	20.34	20.29			
3	64QAM	8	4	20.43	20.68	20.52			
3	64QAM	8	7	20.57	20.38	20.46	23.5		
3	64QAM	15	0	20.46	20.45	20.38			
Channel				20467	20565	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	22.26	22.27	22.28	23.5		
1.4	QPSK	1	3	22.33	22.30	22.28			
1.4	QPSK	1	5	22.30	22.33	22.31			
1.4	QPSK	3	0	22.28	22.28	22.27	22.5		
1.4	QPSK	3	1	22.30	22.30	22.24			
1.4	QPSK	3	3	22.23	22.34	22.17			
1.4	QPSK	6	0	21.33	21.34	21.36	22.5		
1.4	16QAM	1	0	21.51	21.71	21.65			
1.4	16QAM	1	3	21.52	21.90	21.57			
1.4	16QAM	1	5	21.90	21.70	21.52	22.5		
1.4	16QAM	3	0	21.20	21.37	21.40			
1.4	16QAM	3	1	21.27	20.77	20.50			
1.4	16QAM	6	0	20.77	20.87	20.61	23.5		
1.4	16QAM	1	0	20.87	20.83	20.61			
1.4	16QAM	1	3	20.50	20.67	20.58			
1.4	64QAM	1	5	20.76	20.76	20.46	23.5		
1.4	64QAM	0	0	20.57	20.66	20.56			
1.4	64QAM	3	1	20.48	20.58	20.61			
1.4	64QAM	3	3	20.67	20.56	20.56	23.5		
1.4	64QAM	6	0	20.58	20.50	20.76			

Band 13 (Ant 2)								
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				23250				
Frequency (MHz)				782			25	
10	QPSK	1	0	24.02				
10	QPSK	1	25	24.20				
10	QPSK	1	49	24.10				
10	QPSK	25	0	23.08				
10	QPSK	25	12	23.15			24	
10	QPSK	25	25	23.17				
10	QPSK	50	0	23.16				
10	16QAM	1	0	23.26				
10	16QAM	1	25	23.50				
10	16QAM	1	49	23.47			24	
10	16QAM	25	0	22.84				
10	16QAM	25	12	22.94				
10	16QAM	25	25	22.54				
10	16QAM	50	0	22.82				
10	64QAM	1	0	22.51			23	
10	64QAM	1	25	22.62				
10	64QAM	1	49	22.48				
10	64QAM	25	0	22.54				
10	64QAM	25	12	22.58				
10	64QAM	25	25	22.67			23	
10	64QAM	50	0	22.51				
Channel				23205	23250	23295		
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	23.97	24.11	24.08		25
5	QPSK	1	12	24.04	24.07	24.02		
5	QPSK	1	24	24.02	24.02	24.08		
5	QPSK	12	0	23.04	23.06	23.07	24	
5	QPSK	12	7	23.18	23.04	23.17		
5	QPSK	12	13	23.09	23.18	23.11		
5	QPSK	25	0	23.20	23.13	23.16		
5	16QAM	1	0	23.55	23.38	23.30		24
5	16QAM	1	12	23.21	23.56	23.50		
5	16QAM	1	24	23.43	23.59	23.57		
5	16QAM	12	0	22.56	22.07	22.13	23	
5	16QAM	12	7	22.61	22.05	22.25		
5	16QAM	12	13	22.54	22.27	22.16		
5	16QAM	25	0	22.52	22.45	22.15		
5	64QAM	1	0	22.55	22.61	22.61		23
5	64QAM	1	12	22.45	22.45	22.26		
5	64QAM	1	24	22.61	22.28	22.34		
5	64QAM	12	0	22.45	22.34	22.46	23	
5	64QAM	12	7	22.46	22.27	22.34		
5	64QAM	12	13	22.64	22.17	22.13		
5	64QAM	25	0	22.35	22.13	22.24		

Band 13 (Ant 0)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Time-up limit (dBm)
Channel				23250			
Frequency (MHz)				782			
10	QPSK	1	0		23.87		24.5
10	QPSK	1	25		23.99		
10	QPSK	1	49		23.80		
10	QPSK	25	0		22.88		23.5
10	QPSK	25	12		22.74		
10	QPSK	25	25		22.75		
10	QPSK	50	0		22.73		23.5
10	16QAM	1	0		22.80		
10	16QAM	1	25		22.97		
10	16QAM	1	49		22.80		23.5
10	16QAM	25	0		22.66		
10	16QAM	25	12		22.75		
10	16QAM	25	25		22.84		23.5
10	16QAM	50	0		22.82		
10	64QAM	1	0		22.56		23.5
10	64QAM	1	25		22.37		
10	64QAM	1	49		22.62		22.5
10	64QAM	25	0		21.79		
10	64QAM	25	12		21.76		
10	64QAM	25	25		21.72		22.5
10	64QAM	50	0		21.62		
Channel				23205	23250	23295	Time-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.55	23.71	23.73	24.5
5	QPSK	1	12	23.59	23.65	23.61	
5	QPSK	1	24	23.71	23.80	23.72	
5	QPSK	12	0	22.68	22.72	22.68	23.5
5	QPSK	12	7	22.78	22.69	22.69	
5	QPSK	12	13	22.79	22.73	22.73	
5	QPSK	25	0	22.83	22.87	22.76	23.5
5	16QAM	1	0	22.90	22.77	22.81	
5	16QAM	1	12	22.98	22.96	23.01	
5	16QAM	1	24	23.28	23.05	22.91	23.5
5	16QAM	12	0	22.75	22.75	22.75	
5	16QAM	12	7	22.64	22.72	22.65	
5	16QAM	12	13	22.57	22.61	22.54	23.5
5	16QAM	25	0	22.68	22.73	22.62	
5	64QAM	1	0	22.98	22.45	22.76	23.5
5	64QAM	1	12	22.35	22.62	22.86	
5	64QAM	1	24	22.66	22.61	22.63	
5	64QAM	12	0	21.62	21.82	21.69	22.5
5	64QAM	12	7	21.86	21.71	21.74	
5	64QAM	12	13	21.82	21.82	21.75	
5	64QAM	25	0	21.84	21.80	21.79	

Band 17 (Ant 2)							
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	24.84	24.01	24.11	24.5
10	QPSK	1	25	23.94	23.95	23.87	
10	QPSK	1	49	23.95	23.84	23.95	
10	QPSK	25	0	23.09	22.91	22.67	23.5
10	QPSK	25	12	22.65	23.05	22.97	
10	QPSK	25	25	22.99	22.90	22.98	
10	QPSK	50	0	22.96	22.99	22.96	23.5
10	16QAM	1	0	23.12	23.16	23.15	
10	16QAM	1	25	23.10	23.10	22.94	
10	16QAM	1	49	23.18	22.90	23.25	23.5
10	16QAM	25	0	22.89	22.61	22.77	
10	16QAM	25	12	22.64	22.78	22.94	
10	16QAM	25	25	22.77	22.96	22.96	23
10	16QAM	50	0	22.68	22.84	22.67	
10	64QAM	1	0	22.45	22.82	22.53	
10	64QAM	1	25	22.34	22.89	22.83	23
10	64QAM	1	49	22.43	22.91	22.26	
10	64QAM	25	0	22.36	22.25	22.42	
10	64QAM	25	12	22.07	22.27	22.34	23
10	64QAM	25	25	22.12	22.36	22.52	
10	64QAM	50	0	22.26	22.19	22.34	
Channel				706.5	710	713.5	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.87	23.90	23.96	24.5
5	QPSK	1	12	23.81	23.98	23.82	
5	QPSK	1	24	23.96	23.74	23.82	
5	QPSK	12	0	23.03	22.97	23.05	23.5
5	QPSK	12	7	22.94	22.96	22.97	
5	QPSK	12	13	22.97	22.98	22.96	
5	QPSK	25	0	23.05	22.99	22.92	23.5
5	16QAM	1	0	23.04	23.05	23.05	
5	16QAM	1	12	22.88	23.06	23.14	
5	16QAM	1	24	22.92	23.15	23.12	23.5
5	16QAM	12	0	22.86	23.03	22.89	
5	16QAM	12	7	22.94	22.94	22.99	
5	16QAM	12	13	22.64	22.99	22.93	23.5
5	16QAM	25	0	22.89	22.87	22.87	
5	16QAM	25	0	22.94	22.11	22.36	
5	64QAM	1	12	22.15	22.10	22.26	23
5	64QAM	1	24	22.24	22.34	22.34	
5	64QAM	12	0	22.81	22.84	22.71	
5	64QAM	12	7	22.23	22.34	22.24	23
5	64QAM	12	13	22.24	22.53	22.25	
5	64QAM	25	0	22.34	22.45	22.61	

Band 25 (Ant 8)												
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)					
Channel												
Frequency (MHz)												
20	QPSK	1	0	24.45	24.53	24.36	25					
20	QPSK	1	49	24.12	24.11	24.12						
20	QPSK	1	99	24.26	24.16	24.36						
20	QPSK	50	0	23.32	23.32	23.26	24					
20	QPSK	50	24	23.12	23.30	23.16						
20	QPSK	50	50	23.28	23.29	23.15						
20	QPSK	100	0	23.16	23.12	23.12	24					
20	ISDAM	1	0	23.26	23.16	23.02						
20	ISDAM	1	49	23.19	23.34	23.24						
20	ISDAM	1	99	23.21	23.17	23.26	23					
20	ISDAM	50	0	22.33	22.23	22.55						
20	ISDAM	50	24	22.20	22.32	22.54						
20	ISDAM	50	50	22.34	22.21	22.51	23					
20	ISDAM	100	0	22.18	22.28	22.41						
20	ISDAM	1	0	22.27	22.31	22.29						
20	ISDAM	1	49	22.34	22.38	22.29	23					
20	ISDAM	1	99	22.24	22.16	22.12						
20	ISDAM	50	0	22.33	22.28	22.29						
20	ISDAM	50	24	22.15	22.34	22.24	23					
20	ISDAM	50	50	22.34	22.15	22.64						
20	ISDAM	100	0	22.26	22.24	22.44						
Channel												
Frequency (MHz)												
15	QPSK	1	0	24.17	23.93	24.21	25					
15	QPSK	1	37	24.16	24.07	23.98						
15	QPSK	1	74	24.12	24.08	24.13						
15	QPSK	36	0	23.24	23.19	23.11	24					
15	QPSK	36	20	23.30	23.26	23.24						
15	QPSK	36	39	23.00	23.28	23.21						
15	QPSK	75	0	23.27	23.22	23.51	24					
15	ISDAM	1	0	23.36	23.22	23.16						
15	ISDAM	1	37	23.12	23.22	23.45						
15	ISDAM	1	74	23.10	23.21	23.34	23					
15	ISDAM	36	0	22.87	22.23	22.55						
15	ISDAM	36	20	22.62	22.31	22.64						
15	ISDAM	36	39	22.54	22.26	22.57	23					
15	ISDAM	75	0	22.54	22.25	22.62						
15	ISDAM	1	0	22.63	22.54	22.51						
15	ISDAM	1	37	22.27	22.61	22.93	23					
15	ISDAM	1	74	22.54	22.53	22.68						
15	ISDAM	36	0	22.63	22.54	22.73						
15	ISDAM	36	20	22.45	22.42	22.62	23					
15	ISDAM	36	39	22.57	22.30	22.66						
15	ISDAM	75	0	22.62	22.23	22.54						
Channel												
Frequency (MHz)												
10	QPSK	1	0	24.11	24.15	24.12	25					
10	QPSK	1	25	24.33	24.29	24.49						
10	QPSK	1	49	24.06	24.03	24.04						
10	QPSK	25	0	23.36	23.29	23.54	24					
10	QPSK	25	12	23.47	23.38	23.55						
10	QPSK	25	25	23.39	23.34	23.21						
10	QPSK	50	0	23.45	23.37	23.37	24					
10	ISDAM	1	0	23.15	23.07	23.12						
10	ISDAM	1	25	23.42	23.24	23.16						
10	ISDAM	1	49	23.69	23.74	23.51	23					
10	ISDAM	25	0	22.50	22.30	22.42						
10	ISDAM	25	12	22.45	22.40	22.28						
10	ISDAM	25	25	22.46	22.37	22.34	23					
10	ISDAM	50	0	22.46	22.36	22.35						
10	ISDAM	1	0	22.46	22.45	22.51						
10	ISDAM	1	25	22.34	22.38	22.25	23					
10	ISDAM	1	49	22.51	22.56	22.34						
10	ISDAM	25	0	22.36	22.37	22.34						
10	ISDAM	25	12	22.45	22.39	22.26	23					
10	ISDAM	25	25	22.46	22.33	22.35						
10	ISDAM	50	0	22.41	22.37	22.61						
Channel												
Frequency (MHz)												
5	QPSK	1	0	24.39	24.30	24.15	25					
5	QPSK	1	12	24.49	24.23	24.12						
5	QPSK	1	24	24.12	24.11	24.11						
5	QPSK	12	0	23.37	23.37	23.34	24					
5	QPSK	12	7	23.38	23.36	23.51						
5	QPSK	12	13	23.44	23.36	23.24						
5	QPSK	25	0	23.41	23.38	23.42	24					
5	ISDAM	1	0	23.52	23.28	23.21						
5	ISDAM	1	12	23.36	23.43	23.22						
5	ISDAM	1	24	23.41	23.48	23.21	23					
5	ISDAM	12	0	22.36	22.44	22.42						
5	ISDAM	12	7	22.51	22.45	22.22						
5	ISDAM	12	13	22.45	22.35	22.25	23					
5	ISDAM	25	0	22.46	22.34	22.27						
5	ISDAM	1	12	22.34	22.24	22.67						
5	ISDAM	1	12	22.35	22.55	22.16	23					
5	ISDAM	1	24	22.36	22.28	22.34						
5	ISDAM	12	0	22.30	22.22	22.21						
5	ISDAM	12	7	22.46	22.36	22.28	23					
5	ISDAM	12	13	22.38	22.37	22.18						
5	ISDAM	25	0	22.28	22.35	22.61						
Channel												
Frequency (MHz)												
3	QPSK	1	0	24.39	24.29	24.25	25					
3	QPSK	1	8	24.48	24.43	24.15						
3	QPSK	1	14	24.12	24.42	24.12						
3	QPSK	8	0	23.41	23.34	23.28	24					
3	QPSK	8	4	23.39	23.33	23.14						
3	QPSK	8	7	23.48	23.34	23.22						
3	QPSK	15	0	23.44	23.33	23.14	24					
3	ISDAM	1	0	23.44	23.79	23.54						
3	ISDAM	1	8	23.58	23.79	23.54						
3	ISDAM	1	14	23.34	23.46	23.61	23					
3	ISDAM	8	0	23.33	23.32	23.21						
3	ISDAM	8	4	23.4	23.3	23.35						
3	ISDAM	8	7	22.42	22.34	22.24	23					
3	ISDAM	15	0	22.36	22.33	22.55						
3	ISDAM	1	0	22.42	22.42	22.62						
3	ISDAM	1	8	22.51	22.34	22.42	23					
3	ISDAM	1	14	22.51	22.34	22.26						
3	ISDAM	8	0	22.51	22.32	22.34						
3	ISDAM	8	4	22.39	22.30	22.21	23					
3	ISDAM	8	7	22.30	22.31	22.51						
3	ISDAM	15	0	22.30	22.37	22.63						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	24.07	24.03	24.03	25					
1.4	QPSK	1	3	24.09	24.24	24.22						
1.4	QPSK	1	5	24.00	24.14	24.12						
1.4	QPSK	3	0	24.00	24.14	24.02	24					
1.4	QPSK	3	1	24.20	24.28	24.15						
1.4	QPSK	3	3	24.21	24.17	24.22						
1.4	QPSK	6	0	23.30	23.24	23.52	24					
1.4	ISDAM	1	0	23.58	23.55	23.15						
1.4	ISDAM	1	3	23.61	23.41	23.25						
1.4	ISDAM	1	5	23.19	23.33	23.28	24					
1.4	ISDAM	3	0	23.28	23.08	23.51						
1.4	ISDAM	3	1	23.23	23.20	23.44						
1.4	ISDAM	3	3	23.19	23.15	23.15	23					
1.4	ISDAM	6	0	22.18	22.20	22.62						
1.4	ISDAM	1	0	22.35	22.34	22.53						
1.4	ISDAM	1	3	22.46	22.51	22.39	23					
1.4	ISDAM	1	5	22.34	22.34	22.24						
1.4	ISDAM	3	0	22.29	22.25	22.34						
1.4	ISDAM	3	1	22.34	22.19	22.46	23					
1.4	ISDAM	3	3	22.61	22.20	22.51						
1.4	ISDAM	6	0	22.61	22.21	22.61						

Band 25 (Ant 7)									
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel							24.5		
Frequency (MHz)									
20	QPSK	1	0	23.47	23.50	23.46			
20	QPSK	1	49	23.55	23.51	23.38			
20	QPSK	1	99	23.38	23.40	23.26			
20	QPSK	50	0	22.55	22.61	22.42	23.5		
20	QPSK	50	24	22.58	22.55	22.59			
20	QPSK	50	50	22.42	22.59	22.59			
20	QPSK	100	0	22.54	22.49	22.63	23.5		
20	ISDAM	1	0	22.47	22.95	22.59			
20	ISDAM	1	49	22.45	22.55	22.49	23		
20	ISDAM	50	0	22.62	22.44	22.55			
20	ISDAM	50	24	22.34	22.62	22.57	23		
20	ISDAM	50	50	22.42	22.14	22.65			
20	ISDAM	100	0	22.76	22.38	22.78	23		
20	ISDAM	1	0	22.45	22.88	22.42			
20	ISDAM	1	49	22.34	22.24	22.54	23		
20	ISDAM	1	99	22.75	22.55	22.64			
20	ISDAM	50	0	21.56	21.38	21.51	22.5		
20	ISDAM	50	24	21.62	21.48	21.61			
20	ISDAM	50	50	21.48	21.44	21.52	22.5		
20	ISDAM	100	0	21.63	21.55	21.55			
Channel							24.5		
Frequency (MHz)									
15	QPSK	1	0	23.43	23.49	23.47			
15	QPSK	1	37	23.54	23.56	23.33			
15	QPSK	1	74	23.64	23.42	23.35			
15	QPSK	36	0	22.61	22.40	22.47	23.5		
15	QPSK	36	20	22.66	22.54	22.55			
15	QPSK	36	39	22.68	22.46	22.62			
15	QPSK	75	0	22.53	22.52	22.61	23.5		
15	ISDAM	1	0	22.80	22.70	22.89			
15	ISDAM	1	37	22.76	22.94	22.59			
15	ISDAM	1	74	22.90	22.56	22.58	23		
15	ISDAM	36	0	22.45	22.35	22.45			
15	ISDAM	36	20	22.25	22.42	22.34	23		
15	ISDAM	36	39	22.34	22.25	22.21			
15	ISDAM	75	0	22.34	22.45	22.24	22.5		
15	ISDAM	1	0	22.28	22.34	22.46			
15	ISDAM	1	37	22.33	22.50	22.34	23		
15	ISDAM	1	74	22.15	22.35	22.38			
15	ISDAM	36	0	21.48	21.44	21.57	22.5		
15	ISDAM	36	20	21.64	21.57	21.60			
15	ISDAM	36	39	21.62	21.61	21.62	22.5		
15	ISDAM	75	0	21.69	21.50	21.52			
Channel							24.5		
Frequency (MHz)									
10	QPSK	1	0	23.75	23.58	23.61			
10	QPSK	1	25	23.63	23.57	23.65			
10	QPSK	1	49	23.66	23.33	23.59			
10	QPSK	25	0	22.77	22.70	22.69	23.5		
10	QPSK	25	12	22.76	22.74	22.72			
10	QPSK	25	25	22.70	22.70	22.64			
10	QPSK	50	0	22.71	22.72	22.66	23.5		
10	ISDAM	1	0	22.56	22.65	22.50			
10	ISDAM	1	25	22.89	22.61	22.81			
10	ISDAM	1	49	22.86	22.58	22.53	23		
10	ISDAM	25	0	22.15	22.27	22.24			
10	ISDAM	25	12	22.35	22.28	22.27	23		
10	ISDAM	25	25	22.27	22.38	22.42			
10	ISDAM	50	0	22.36	22.34	22.34	23		
10	ISDAM	1	0	22.38	22.15	22.27			
10	ISDAM	1	25	22.36	22.34	22.42	22.5		
10	ISDAM	1	49	22.21	22.34	22.35			
10	ISDAM	25	0	21.71	21.71	21.66	22.5		
10	ISDAM	25	12	21.74	21.73	21.63			
10	ISDAM	25	25	21.67	21.71	21.58	22.5		
10	ISDAM	50	0	21.69	21.71	21.71			
Channel							24.5		
Frequency (MHz)									
5	QPSK	1	0	23.70	23.67	23.67			
5	QPSK	1	12	23.62	23.63	23.64			
5	QPSK	1	24	23.70	23.61	23.58			
5	QPSK	12	0	22.79	22.75	22.74	23.5		
5	QPSK	12	7	22.68	22.73	22.69			
5	QPSK	12	13	22.72	22.74	22.78			
5	QPSK	25	0	22.75	22.68	22.67	23.5		
5	ISDAM	1	0	22.99	22.91	22.85			
5	ISDAM	1	12	22.72	22.74	22.68			
5	ISDAM	1	24	23.00	22.60	22.65	23.5		
5	ISDAM	12	0	22.26	22.24	22.34			
5	ISDAM	12	7	22.34	22.16	22.16	23		
5	ISDAM	12	13	22.42	22.37	22.34			
5	ISDAM	25	0	22.34	22.39	22.24	23		
5	ISDAM	1	0	22.24	22.24	22.47			
5	ISDAM	1	12	22.26	22.17	22.36	23		
5	ISDAM	1	24	22.24	22.39	22.19			
5	ISDAM	12	0	21.74	21.71	21.73	22.5		
5	ISDAM	12	7	21.69	21.76	21.73			
5	ISDAM	12	13	21.60	21.56	21.79	22.5		
5	ISDAM	25	0	21.71	21.71	21.69			
Channel							24.5		
Frequency (MHz)									
3	QPSK	1	0	23.95	23.95	23.95			
3	QPSK	1	8	23.64	23.54	23.62			
3	QPSK	1	14	23.57	23.50	23.63			
3	QPSK	8	0	22.68	22.69	22.71	23.5		
3	QPSK	8	7	22.74	22.71	22.74			
3	QPSK	8	7	22.70	22.71	22.68			
3	QPSK	15	0	22.71	22.71	22.73	23.5		
3	ISDAM	1	0	22.87	22.64	22.88			
3	ISDAM	1	8	22.62	23.12	22.97			
3	ISDAM	1	14	22.94	23.06	22.83	23		
3	ISDAM	8	0	22.16	22.16	22.25			
3	ISDAM	8	4	22.47	22.34	22.37	23		
3	ISDAM	8	7	22.35	22.54	22.37			
3	ISDAM	15	0	22.34	22.34	22.34	23		
3	ISDAM	1	0	22.26	22.31	22.26			
3	ISDAM	1	8	22.24	22.14	22.21	23		
3	ISDAM	1	14	22.26	22.17	22.23			
3	ISDAM	8	2	21.73	21.69	21.63	22.5		
3	ISDAM	8	4	21.68	21.80	21.72			
3	ISDAM	8	7	21.74	21.73	21.76	22.5		
3	ISDAM	15	0	21.78	21.69	21.72			
Channel							24.5		
Frequency (MHz)									
1.4	QPSK	1	0	23.92	23.95	23.93			
1.4	QPSK	1	3	23.64	23.60	23.68			
1.4	QPSK	1	5	23.60	23.56	23.68			
1.4	QPSK	3	0	23.57	23.62	23.57	23.5		
1.4	QPSK	3	3	23.60	23.51	23.57			
1.4	QPSK	3	6	23.62	23.67	23.67			
1.4	ISDAM	1	0	22.83	22.97	23.03	23.5		
1.4	ISDAM	1	3	22.79	22.89	23.00			
1.4	ISDAM	1	5	22.72	22.68	23.01	23.5		
1.4	ISDAM	3	0	22.63	22.68	22.54			
1.4	ISDAM	3	1	22.75	22.81	22.65	23		
1.4	ISDAM	3	3	22.71	22.75	22.54			
1.4	ISDAM	6	0	22.45	22.61	22.53	23		
1.4	ISDAM	1	0	22.16	22.42	22.25			
1.4	ISDAM	1	3	22.28	22.31	22.24	23		
1.4	ISDAM	1	5	22.28	22.25	22.32			
1.4	ISDAM	3	0	22.25	22.42	22.09	23		
1.4	ISDAM	3	1	22.25	22.29	22.17			
1.4	ISDAM	3	3	22.21	22.61	22.49	22.5		
1.4	ISDAM	6	0	21.62	21.64	21.70			

Band 41 (Ant 8)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle-Low Channel	Middle Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	25
20	QPSK	1	0	24.06	24.02	24.14	24.00	23.92	
20	QPSK	1	49	24.07	24.04	23.90	23.85	23.93	25
20	QPSK	1	99	23.95	23.91	23.96	23.89	23.78	
20	QPSK	50	0	23.28	23.25	23.34	23.12	23.13	
20	QPSK	50	24	23.13	23.23	23.32	23.06	23.14	
20	QPSK	50	50	23.23	23.21	23.21	23.11	23.11	24
20	QPSK	100	0	23.33	23.25	23.21	23.13	23.13	
20	16QAM	1	0	23.42	23.43	23.45	23.42	23.34	
20	16QAM	1	49	23.21	23.41	23.39	23.14	23.23	
20	16QAM	1	99	23.31	23.38	23.32	23.35	23.17	24
20	16QAM	50	0	22.55	22.44	22.55	22.13	22.51	
20	16QAM	50	24	22.62	22.64	22.36	22.20	22.52	
20	16QAM	50	50	22.52	22.51	22.30	22.19	22.51	
20	16QAM	100	0	22.59	22.36	22.23	22.16	22.35	23
20	64QAM	1	0	22.28	22.62	22.35	22.28	22.16	
20	64QAM	1	49	22.30	22.35	22.16	22.34	22.34	
20	64QAM	1	99	22.42	22.64	22.24	22.24	22.55	
20	64QAM	50	0	22.35	22.33	22.19	22.35	22.13	23
20	64QAM	50	24	22.28	22.36	22.21	22.08	22.19	
20	64QAM	50	50	22.16	22.23	22.12	22.03	22.08	
20	64QAM	100	0	22.30	22.39	22.30	22.26	22.26	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.09	24.16	24.13	23.99	24.05	25
15	QPSK	1	37	24.01	24.10	24.07	23.99	23.92	
15	QPSK	1	74	24.09	24.05	24.10	23.98	23.86	
15	QPSK	36	0	23.26	23.29	23.30	23.09	23.16	
15	QPSK	36	20	23.28	23.22	23.25	23.17	23.13	24
15	QPSK	36	39	23.23	23.31	23.18	23.09	23.04	
15	QPSK	75	0	23.23	23.23	23.31	23.16	23.14	
15	16QAM	1	0	23.33	23.55	23.49	23.31	23.63	
15	16QAM	1	37	23.50	23.30	23.31	23.14	23.15	24
15	16QAM	1	74	23.33	23.38	23.37	23.19	23.22	
15	16QAM	36	0	22.31	22.26	22.27	22.15	22.15	
15	16QAM	36	20	22.21	22.30	22.27	22.17	22.12	
15	16QAM	36	39	22.27	22.29	22.19	22.06	22.05	23
15	16QAM	75	0	22.36	22.40	22.31	22.13	22.17	
15	64QAM	1	0	22.36	22.43	22.55	22.43	22.34	
15	64QAM	1	37	22.35	22.35	22.18	22.39	22.34	
15	64QAM	1	74	22.33	22.15	22.42	22.61	22.51	23
15	64QAM	36	0	22.33	22.30	22.26	22.18	22.18	
15	64QAM	36	20	22.25	22.31	22.30	22.14	22.15	
15	64QAM	36	39	22.26	22.27	22.25	22.18	22.17	
15	64QAM	75	0	22.28	22.32	22.22	22.18	22.16	23
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	Tune-up limit (dBm)
10	QPSK	1	0	24.43	24.26	24.44	24.06	24.02	
10	QPSK	1	25	24.33	24.16	24.29	24.06	24.08	25
10	QPSK	1	49	24.08	24.38	24.38	24.25	23.96	
10	QPSK	25	0	23.43	23.59	23.42	23.22	23.36	
10	QPSK	25	12	23.51	23.50	23.45	23.35	23.29	24
10	QPSK	25	25	23.43	23.47	23.46	23.21	23.28	
10	QPSK	50	0	23.47	23.53	23.35	23.24	23.26	
10	16QAM	1	0	23.70	23.65	23.57	23.50	23.49	
10	16QAM	1	25	23.62	23.52	23.60	23.26	23.41	24
10	16QAM	1	49	23.60	23.60	23.54	23.48	23.37	
10	16QAM	25	0	22.55	22.52	22.42	22.33	22.35	
10	16QAM	25	12	22.57	22.46	22.53	22.35	22.34	
10	16QAM	25	25	22.46	22.57	22.44	22.31	22.42	23
10	16QAM	50	0	22.47	22.18	22.51	22.25	22.29	
10	64QAM	1	0	23.51	23.54	23.47	23.26	23.26	
10	64QAM	1	25	23.32	23.42	23.53	23.17	23.27	
10	64QAM	1	49	23.36	23.46	23.45	23.41	23.34	23
10	64QAM	25	0	22.50	22.48	22.36	22.23	22.30	
10	64QAM	25	12	22.49	22.42	22.46	22.32	22.26	
10	64QAM	25	25	22.50	22.41	22.28	22.21	22.15	
10	64QAM	50	0	22.34	22.34	22.34	22.16	22.30	23
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	Tune-up limit (dBm)
5	QPSK	1	0	24.30	24.22	24.30	24.09	24.11	
5	QPSK	1	12	24.25	24.26	24.23	24.08	24.08	25
5	QPSK	1	24	24.28	24.26	24.22	24.03	24.13	
5	QPSK	12	0	23.37	23.41	23.40	23.30	23.34	
5	QPSK	12	7	23.46	23.53	23.42	23.38	23.28	24
5	QPSK	12	13	23.38	23.51	23.41	23.25	23.24	
5	QPSK	25	0	23.39	23.41	23.42	23.25	23.26	
5	16QAM	1	0	23.65	23.52	23.55	23.32	23.44	
5	16QAM	1	12	23.57	23.71	23.77	23.47	23.65	24
5	16QAM	1	24	23.61	23.64	23.64	23.36	23.42	
5	16QAM	12	0	22.47	22.51	22.46	22.36	22.41	
5	16QAM	12	7	22.46	22.46	22.49	22.30	22.37	
5	16QAM	12	13	22.47	22.44	22.40	22.35	22.33	23
5	16QAM	25	0	22.45	22.47	22.47	22.37	22.39	
5	64QAM	1	0	22.44	22.42	22.24	22.34	22.34	
5	64QAM	1	12	22.42	22.35	22.44	22.24	22.15	
5	64QAM	1	24	22.35	22.23	22.24	22.36	22.25	23
5	64QAM	12	0	22.42	22.45	22.40	22.28	22.30	
5	64QAM	12	7	22.40	22.45	22.44	22.28	22.36	
5	64QAM	12	13	22.37	22.40	22.38	22.22	22.28	
5	64QAM	25	0	22.40	22.41	22.41	22.29	22.22	23

Band 41 (Ant 7) HPUE

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle-Low Channel	Middle Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	26.67	27.08	27.22	27.12	27.01	28
20	QPSK	1	49	26.69	27.03	26.73	27.09	26.91	
20	QPSK	1	99	26.82	26.97	26.82	26.78	26.99	
20	QPSK	50	0	26.11	26.08	26.42	26.11	26.27	
20	QPSK	50	24	26.06	26.11	26.11	26.09	26.17	27
20	QPSK	50	50	26.12	26.21	26.12	26.12	26.14	
20	QPSK	100	0	26.09	26.12	26.12	26.22	26.24	
20	16QAM	1	0	26.21	26.14	26.32	26.23	26.44	
20	16QAM	1	49	26.12	26.09	26.11	26.24	26.24	27
20	16QAM	1	99	26.11	26.24	26.12	26.11	26.33	
20	16QAM	50	0	25.58	25.68	25.50	25.35	25.67	
20	16QAM	50	24	25.67	25.70	25.71	25.39	25.77	
20	16QAM	50	50	25.83	25.36	25.78	25.38	25.67	26.5
20	16QAM	100	0	25.44	25.71	25.73	25.58	25.49	
20	64QAM	1	0	25.68	25.94	25.60	25.57	25.72	
20	64QAM	1	49	25.71	25.76	25.67	25.55	25.19	
20	64QAM	1	99	25.92	25.59	25.68	25.68	25.94	26.5
20	64QAM	50	0	25.41	25.78	25.72	25.76	25.71	
20	64QAM	50	24	25.56	25.71	25.93	25.38	25.39	
20	64QAM	50	50	25.16	25.71	25.71	25.36	25.39	
20	64QAM	100	0	25.37	25.66	25.56	25.49	25.47	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Tune-up limit (dBm)
15	QPSK	1	0	26.62	27.03	27.10	27.07	26.96	28
15	QPSK	1	37	26.64	26.98	26.68	27.04	26.86	
15	QPSK	1	74	26.77	26.92	26.77	26.73	26.94	
15	QPSK	36	0	26.01	25.98	26.32	26.01	26.17	
15	QPSK	36	20	25.96	26.01	26.01	25.99	26.07	27
15	QPSK	36	39	26.02	26.11	26.02	26.02	26.04	
15	QPSK	75	0	25.99	26.02	26.02	26.12	26.14	
15	16QAM	1	0	26.11	26.04	26.22	26.13	26.11	
15	16QAM	1	37	26.02	25.99	26.01	26.14	26.14	27
15	16QAM	1	74	26.01	26.14	26.02	26.01	26.23	
15	16QAM	36	0	25.54	25.64	25.46	25.31	25.63	
15	16QAM	36	20	25.63	25.66	25.67	25.35	25.73	
15	16QAM	36	39	25.79	25.32	25.74	25.34	25.63	26.5
15	16QAM	75	0	25.62	25.67	25.69	25.54	25.45	
15	64QAM	1	0	25.64	25.90	25.56	25.62	25.68	
15	64QAM	1	37	25.67	25.72	25.63	25.34	25.15	
15	64QAM	1	74	25.88	25.55	25.64	25.63	25.63	26.5
15	64QAM	36	0	25.37	25.74	25.68	25.35	25.67	
15	64QAM	36	20	25.52	25.67	25.89	25.34	25.35	
15	64QAM	36	39	25.12	25.67	25.67	25.32	25.35	
15	64QAM	75	0	25.33	25.62	25.52	25.45	25.43	
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	Tune-up limit (dBm)
10	QPSK	1	0	26.64	27.05	27.09	27.09	26.98	28
10	QPSK	1	25	26.66	27.00	26.70	27.06	26.88	
10	QPSK	1	49	26.79	26.94	26.79	26.75	26.96	
10	QPSK	25	0	26.05	26.02	26.22	26.05	26.21	
10	QPSK	25	12	26.00	26.05	26.05	26.03	26.11	27
10	QPSK	25	25	26.06	26.15	26.06	26.06	26.08	
10	QPSK	50	0	26.03	26.06	26.06	26.16	26.18	
10	16QAM	1	0	26.15	26.08	26.26	26.17	26.22	
10	16QAM	1	25	26.06	26.03	26.05	26.18	26.18	27
10	16QAM	1	49	26.05	26.18	26.06	26.05	26.27	
10	16QAM	25	0	25.47	25.57	25.39	25.24	25.66	
10	16QAM	25	12	25.56	25.59	25.60	25.28	25.66	
10	16QAM	25	25	25.72	25.25	25.67	25.27	25.56	26.5
10	16QAM	50	0	25.55	25.60	25.62	25.47	25.38	
10	64QAM	1	0	25.57	25.83	25.49	25.55	25.61	
10	64QAM	1	25	25.60	25.65	25.56	25.27	25.08	
10	64QAM	1	49	25.81	25.48	25.57	25.56	25.56	26.5
10	64QAM	25	0	25.30	25.67	25.61	25.28	25.60	
10	64QAM	25	12	25.45	25.60	25.82	25.27	25.28	
10	64QAM	25	25	25.05	25.60	25.60	25.25	25.28	
10	64QAM	50	0	25.26	25.55	25.45	25.38	25.36	
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	Tune-up limit (dBm)
5	QPSK	1	0	26.52	26.93	27.07	26.97	26.86	28
5	QPSK	1	12	26.54	26.88	26.58	26.94	26.76	
5	QPSK	1	24	26.67	26.82	26.67	26.63	26.84	
5	QPSK	12	0	26.10	26.07	26.11	26.10	26.26	
5	QPSK	12	7	26.05	26.10	26.10	26.08	26.16	27
5	QPSK	12	13	26.11	26.20	26.11	26.11	26.13	
5	QPSK	25	0	26.08	26.11	26.11	26.21	26.23	
5	16QAM	1	0	26.20	26.13	26.31	26.22	26.31	
5	16QAM	1	12	26.11	26.08	26.10	26.23	26.23	27
5	16QAM	1	24	26.10	26.23	26.11	26.10	26.32	
5	16QAM	12	0	25.45	25.55	25.37	25.22	25.54	
5	16QAM	12	7	25.54	25.57	25.58	25.26	25.64	
5	16QAM	12	13	25.70	25.23	25.65	25.25	25.54	26.5
5	16QAM	25	0	25.53	25.58	25.60	25.45	25.36	
5	64QAM	1	0	25.55	25.81	25.47	25.53	25.59	
5	64QAM	1	12	25.58	25.63	25.54	25.25	25.06	
5	64QAM	1	24	25.79	25.46	25.55	25.54	25.54	26.5
5	64QAM	12	0	25.28	25.65	25.59	25.26	25.58	
5	64QAM	12	7	25.43	25.58	25.80	25.25	25.26	
5	64QAM	12	13	25.03	25.58	25.58	25.23	25.26	
5	64QAM	25	0	25.24	25.53	25.43	25.36	25.34	

Band 66 (Ant 8)												
RV [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Time-up limit (dBm)					
Channel												
Frequency (MHz)												
20	QPSK	1	0	24.06	1740	1770	25	24	23			
20	QPSK	1	8	24.22	24.11	24.11						
20	QPSK	1	99	24.17	24.01	24.19						
20	QPSK	50	0	23.15	23.38	23.20	24	24	23			
20	QPSK	50	24	23.25	23.24	23.20						
20	QPSK	50	50	23.36	23.28	23.26						
20	QPSK	100	0	23.17	23.14	23.20	23	23	23			
20	ISDAM	1	0	23.41	23.40	23.57						
20	ISDAM	1	49	23.65	23.21	23.22						
20	ISDAM	1	99	23.16	23.20	23.35	23	23	23			
20	ISDAM	50	0	22.30	22.15	22.15						
20	ISDAM	50	24	22.25	22.20	22.16						
20	ISDAM	50	50	22.36	22.40	22.37	23	23	23			
20	ISDAM	100	0	22.32	22.29	22.14						
20	ISDAM	1	49	22.39	22.25	22.32						
20	ISDAM	1	99	22.28	22.23	22.11	23	23	23			
20	ISDAM	50	0	22.20	22.19	22.15						
20	ISDAM	50	24	22.20	22.23	22.19						
20	ISDAM	50	50	22.41	22.26	22.28	23	23	23			
20	ISDAM	100	0	22.27	22.16	22.23						
Channel												
Frequency (MHz)												
15	QPSK	1	0	24.06	24.16	24.04	25	24	23			
15	QPSK	1	37	24.20	24.23	24.09						
15	QPSK	1	74	24.15	23.99	24.17						
15	QPSK	36	0	23.13	23.12	23.18	24	24	23			
15	QPSK	36	20	23.23	23.22	23.18						
15	QPSK	36	39	23.34	23.26	23.24						
15	QPSK	75	0	23.15	23.12	23.18	24	24	23			
15	ISDAM	1	0	23.39	23.38	23.55						
15	ISDAM	1	37	23.53	23.19	23.20						
15	ISDAM	1	74	23.14	23.18	23.33	23	23	23			
15	ISDAM	36	0	22.28	22.13	22.13						
15	ISDAM	36	20	22.23	22.18	22.14						
15	ISDAM	36	39	22.24	22.26	22.25	23	23	23			
15	ISDAM	75	0	22.30	22.27	22.12						
15	ISDAM	75	0	22.25	22.26	22.13						
15	ISDAM	1	37	22.37	22.42	22.28	23	23	23			
15	ISDAM	1	74	22.36	22.11	22.18						
15	ISDAM	36	0	22.24	22.17	22.12						
15	ISDAM	36	20	22.20	22.21	22.17	23	23	23			
15	ISDAM	36	39	22.29	22.24	22.26						
15	ISDAM	75	0	22.25	22.14	22.21						
Channel												
Frequency (MHz)												
10	QPSK	1	0	24.04	24.16	24.02	25	24	23			
10	QPSK	1	25	24.16	24.21	24.07						
10	QPSK	1	49	24.13	23.97	24.15						
10	QPSK	25	0	23.11	23.10	23.16	24	24	23			
10	QPSK	25	12	23.21	23.20	23.16						
10	QPSK	25	25	23.32	23.24	23.22						
10	QPSK	50	0	23.13	23.10	23.16	24	24	23			
10	ISDAM	1	0	23.37	23.36	23.53						
10	ISDAM	1	25	23.51	23.17	23.18						
10	ISDAM	1	49	23.12	23.16	23.31	23	23	23			
10	ISDAM	25	0	22.26	22.11	22.11						
10	ISDAM	25	12	22.21	22.16	22.12						
10	ISDAM	25	25	22.32	22.36	22.33	23	23	23			
10	ISDAM	50	0	22.26	22.25	22.10						
10	ISDAM	50	0	22.24	22.45	22.11						
10	ISDAM	1	25	22.21	22.38	22.26	23	23	23			
10	ISDAM	1	49	22.34	22.29	22.27						
10	ISDAM	25	0	22.17	22.15	22.11						
10	ISDAM	25	12	22.16	22.19	22.15	23	23	23			
10	ISDAM	25	25	22.37	22.22	22.24						
10	ISDAM	50	0	22.23	22.12	22.19						
Channel												
Frequency (MHz)												
5	QPSK	1	0	24.02	24.14	24.00	25	24	23			
5	QPSK	1	12	24.16	24.19	24.05						
5	QPSK	1	24	24.13	23.97	24.13						
5	QPSK	12	0	23.09	23.08	23.14	24	24	23			
5	QPSK	12	7	23.19	23.18	23.14						
5	QPSK	12	13	23.30	23.22	23.20						
5	QPSK	25	0	23.11	23.08	23.14	24	24	23			
5	ISDAM	1	0	23.35	23.34	23.51						
5	ISDAM	1	12	23.49	23.15	23.16						
5	ISDAM	1	24	23.10	23.14	23.29	23	23	23			
5	ISDAM	12	0	22.24	22.09	22.09						
5	ISDAM	12	7	22.19	22.14	22.10						
5	ISDAM	12	13	22.30	22.34	22.31	23	23	23			
5	ISDAM	25	0	22.26	22.26	22.10						
5	ISDAM	1	0	22.46	22.25	22.26						
5	ISDAM	1	12	22.33	22.36	22.24	23	23	23			
5	ISDAM	1	24	22.24	22.17	22.34						
5	ISDAM	12	0	22.15	22.13	22.09						
5	ISDAM	12	7	22.16	22.17	22.13	23	23	23			
5	ISDAM	12	13	22.35	22.20	22.22						
5	ISDAM	25	0	22.21	22.12	22.17						
Channel												
Frequency (MHz)												
3	QPSK	1	0	24.00	24.12	23.94	25	24	23			
3	QPSK	1	8	24.20	24.23	24.08						
3	QPSK	1	14	24.15	23.99	24.17						
3	QPSK	8	0	23.13	23.12	23.18	24	24	23			
3	QPSK	8	7	23.23	23.28	23.18						
3	QPSK	15	0	23.15	23.12	23.18						
3	ISDAM	1	0	23.39	23.38	23.55	24	24	23			
3	ISDAM	1	8	23.63	23.19	23.20						
3	ISDAM	1	14	23.14	23.18	23.33						
3	ISDAM	8	0	22.28	22.13	22.13	23	23	23			
3	ISDAM	8	4	22.34	22.16	22.14						
3	ISDAM	8	7	22.34	22.28	22.25						
3	ISDAM	15	0	22.30	22.27	22.12	23	23	23			
3	ISDAM	1	0	22.43	22.54	22.13						
3	ISDAM	1	8	22.27	22.46	22.28						
3	ISDAM	1	11	22.23	22.47	22.27	23	23	23			
3	ISDAM	8	0	22.17	22.17	22.13						
3	ISDAM	8	4	22.20	22.21	22.18						
3	ISDAM	8	7	22.26	22.24	22.26	23	23	23			
3	ISDAM	15	0	22.25	22.14	22.21						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	24.02	1742	1772	25	24	23			
1.4	QPSK	1	3	24.14	24.17	24.03						
1.4	QPSK	1	5	24.09	23.93	24.11						
1.4	QPSK	3	0	23.07	23.06	23.12	24	24	23			
1.4	QPSK	3	1	23.17	23.16	23.12						
1.4	QPSK	3	3	23.28	23.20	23.18						
1.4	QPSK	6	0	23.09	23.06	23.12	24	24	23			
1.4	ISDAM	1	0	23.33	23.32	23.49						
1.4	ISDAM	1	3	23.47	23.13	23.14						
1.4	ISDAM	1	5	23.08	23.12	23.27	24	24	23			
1.4	ISDAM	3	0	22.22	22.07	22.07						
1.4	ISDAM	3	1	22.17	22.12	22.08						
1.4	ISDAM	3	3	22.38	22.32	22.29	23	23	23			
1.4	ISDAM	6	0	22.24	22.21	22.06						
1.4	ISDAM	1	0	22.44	22.42	22.27						
1.4	ISDAM	1	3	22.31	22.31	22.22	23	23	23			
1.4	ISDAM	1	5	22.20	22.35	22.24						
1.4	ISDAM	3	0	22.13	22.11	22.07						
1.4	ISDAM	3	1	22.14	22.15	22.11	23	23	23			
1.4	ISDAM	3	3	22.33	22.18	22.20						
1.4	ISDAM	6	0	22.19	22.08	22.24						

Band 66 (Ant 7)												
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Time-up limit (dBm)					
Channel												
Frequency (MHz)												
20	QPSK	1	0	1705	1745	1770	21	20	20			
20	QPSK	1	8	20.01	20.12	20.09						
20	QPSK	1	96	20.06	20.02	20.06						
20	QPSK	1	96	19.88	19.89	20.05	20	20	20			
20	QPSK	50	0	19.02	19.15	19.07						
20	QPSK	50	24	19.12	19.11	19.07	20	20	20			
20	QPSK	50	50	19.04	19.05	19.13						
20	QPSK	100	0	19.04	19.01	19.07						
20	HQAM	1	0	19.04	19.24	19.07	20	20	20			
20	HQAM	1	49	19.38	19.05	19.05						
20	HQAM	1	99	19.00	19.04	19.19						
20	HQAM	50	0	19.14	19.09	19.19	24	24	24			
20	HQAM	50	24	19.08	19.04	19.14						
20	HQAM	50	50	19.20	19.24	19.24						
20	HQAM	100	0	19.16	19.14	19.22	24	24	24			
20	HQAM	1	0	19.37	19.43	19.00						
20	HQAM	1	49	19.24	19.27	19.15						
20	HQAM	1	99	19.13	19.86	19.96	23	23	23			
20	HQAM	50	0	18.06	18.04	18.00						
20	HQAM	50	24	18.07	18.08	18.04						
20	HQAM	50	50	18.26	18.11	18.14	23	23	23			
20	HQAM	100	0	18.12	18.01	18.08						
Channel										Time-up limit (dBm)		
Frequency (MHz)												
15	QPSK	1	0	13047	13202	13597	21	21	21			
15	QPSK	1	6	19.94	20.06	19.95						
15	QPSK	1	37	20.08	20.11	19.97						
15	QPSK	1	74	20.03	19.97	20.05	20	20	20			
15	QPSK	36	0	19.00	19.00	19.00						
15	QPSK	36	20	19.11	19.10	19.06						
15	QPSK	36	36	19.22	19.14	19.12	20	20	20			
15	QPSK	75	0	19.03	19.00	19.06						
15	HQAM	1	0	19.27	19.26	19.43						
15	HQAM	1	49	19.17	19.16	19.09	24	24	24			
15	HQAM	1	74	19.02	19.06	19.21						
15	HQAM	36	0	19.16	19.01	19.01						
15	HQAM	36	20	19.11	19.06	19.02	24	24	24			
15	HQAM	36	39	19.22	19.05	19.23						
15	HQAM	75	0	19.18	19.15	19.00						
15	HQAM	1	0	19.24	19.46	19.07	23	23	23			
15	HQAM	1	74	19.12	19.38	19.16						
15	HQAM	1	74	19.14	19.38	19.07						
15	HQAM	36	0	18.07	18.05	18.01	23	23	23			
15	HQAM	36	20	18.08	18.09	18.05						
15	HQAM	36	39	18.27	18.12	18.14						
15	HQAM	75	0	18.13	18.02	18.09	23	23	23			
Channel										Time-up limit (dBm)		
Frequency (MHz)												
10	QPSK	1	0	1715	1745	1775	21	21	21			
10	QPSK	1	25	20.04	20.07	19.93						
10	QPSK	1	49	19.96	19.83	20.01						
10	QPSK	25	0	19.00	19.00	19.00	20	20	20			
10	QPSK	25	12	19.07	19.06	19.02						
10	QPSK	25	25	19.18	19.10	19.08						
10	QPSK	50	0	18.99	18.96	19.02	20	20	20			
10	HQAM	1	0	19.23	19.22	19.39						
10	HQAM	1	25	19.37	19.03	19.04						
10	HQAM	1	49	18.98	19.07	19.17	24	24	24			
10	HQAM	25	0	19.12	19.17	19.07						
10	HQAM	25	12	19.08	19.14	19.18						
10	HQAM	25	25	19.18	19.11	19.16	24	24	24			
10	HQAM	50	0	19.14	19.11	19.14						
10	HQAM	1	0	19.34	19.40	19.07						
10	HQAM	1	25	19.31	19.24	19.12	23	23	23			
10	HQAM	1	49	19.10	18.95	18.93						
10	HQAM	25	0	18.03	18.01	17.97						
10	HQAM	25	12	18.04	18.05	18.01	23	23	23			
10	HQAM	25	25	18.23	18.08	18.10						
10	HQAM	50	0	18.11	18.00	18.07						
Channel							Time-up limit (dBm)					
Frequency (MHz)												
5	QPSK	1	0	1932	20.04	19.90	21	21	21			
5	QPSK	1	12	20.06	20.09	19.95						
5	QPSK	1	24	20.01	19.85	20.03						
5	QPSK	12	0	18.99	18.98	19.04	20	20	20			
5	QPSK	12	7	19.00	18.98	19.04						
5	QPSK	12	13	19.20	19.12	19.10						
5	QPSK	25	0	19.01	18.98	19.04	20	20	20			
5	HQAM	1	0	19.25	19.24	19.41						
5	HQAM	1	12	19.39	19.05	19.06						
5	HQAM	1	24	19.00	19.04	19.19	24	24	24			
5	HQAM	12	0	19.14	19.14	19.06						
5	HQAM	12	7	19.05	19.14	19.22						
5	HQAM	12	13	19.20	19.24	19.12	24	24	24			
5	HQAM	25	0	19.16	19.14	19.08						
5	HQAM	1	0	19.36	19.42	19.06						
5	HQAM	1	12	19.23	19.26	19.14	24	24	24			
5	HQAM	1	24	19.12	19.01	18.95						
5	HQAM	12	0	19.05	19.03	17.99						
5	HQAM	12	7	18.06	18.07	18.03	23	23	23			
5	HQAM	12	13	18.25	18.10	18.12						
5	HQAM	25	0	18.11	18.00	18.07						
Channel							Time-up limit (dBm)					
Frequency (MHz)												
3	QPSK	1	0	1931.5	1945	1973.5	21	21	21			
3	QPSK	1	8	20.07	20.10	19.98						
3	QPSK	1	14	20.02	19.86	20.04						
3	QPSK	8	0	19.00	18.99	19.05	20	20	20			
3	QPSK	8	4	19.10	18.99	19.05						
3	QPSK	8	7	19.21	19.21	19.11						
3	QPSK	15	0	19.02	18.99	19.05	20	20	20			
3	HQAM	1	0	19.26	19.25	19.42						
3	HQAM	1	8	19.40	19.06	19.07						
3	HQAM	1	14	19.01	19.05	19.20	24	24	24			
3	HQAM	8	0	19.15	19.14	19.12						
3	HQAM	8	4	19.16	19.05	19.05						
3	HQAM	8	7	19.21	19.05	19.14	24	24	24			
3	HQAM	15	0	19.17	19.14	19.17						
3	HQAM	1	0	19.37	19.43	19.00						
3	HQAM	1	8	19.24	19.27	19.15	24	24	24			
3	HQAM	1	14	19.16	19.16	19.06						
3	HQAM	3	0	19.16	19.04	19.10						
3	HQAM	8	4	18.07	18.08	19.04	23	23	23			
3	HQAM	8	7	18.26	18.11	18.13						
3	HQAM	15	0	18.12	18.01	18.08						
Channel							Time-up limit (dBm)					
Frequency (MHz)												
1.4	QPSK	1	0	1931.7	1945	1973.3	21	21	21			
1.4	QPSK	1	8	20.06	20.07	19.93						
1.4	QPSK	1	5	20.04	19.88	20.06						
1.4	QPSK	3	0	19.02	19.01	19.07	20	20	20			
1.4	QPSK	3	1	19.12	19.11	19.07						
1.4	QPSK	3	3	19.23	19.15	19.13						
1.4	QPSK	8	0	19.00	18.99	19.07	20	20	20			
1.4	HQAM	1	0	19.28	19.27	19.44						
1.4	HQAM	1	3	19.42	19.08	19.09						
1.4	HQAM	1	5	19.03	19.07	19.22	20	20	20			
1.4	HQAM	3	0	19.17	19.12	19.22						
1.4	HQAM	3	1	19.12	19.07	19.23						
1.4	HQAM	3	3	19.27	19.27	19.11	24	24	24			
1.4	HQAM	6	0	19.19	19.16	19.10						
1.4	HQAM	1	0	19.39	19.45	19.03						
1.4	HQAM	1	3	19.26	19.29	19.17	24	24	24			
1.4	HQAM	1	5	19.15	19.00	18.98						
1.4	HQAM	3	0	19.05	19.02	19.02						
1.4	HQAM	3	1	19.09	19.04	19.06	23	23	23			
1.4	HQAM	3	3	19.12	19.12	19.02						
1.4	HQAM	6	0	18.25	18.14	18.42						

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN CH0	802.11b 1Mbps	CH 1	2412	15.80	16.5	17	100.00
		CH 6	2437	15.63	16.5	17	
		CH 11	2462	16.21	17.0	17	
	802.11g 6Mbps	CH 1	2412	14.60	15.0	16	98.07
		CH 6	2437	14.34	15.0	16	
		CH 11	2462	14.71	15.0	16	
	802.11n-HT20 MCS0	CH 1	2412	14.46	15.0	16	97.93
		CH 6	2437	14.24	15.0	16	
		CH 11	2462	14.51	15.0	16	
	802.11n-HT40 MCS0	CH 3	2422	14.40	15.0	16	94.31
		CH 6	2437	14.46	15.0	16	
		CH 9	2452	14.25	15.0	16	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN CH0	802.11a 6Mbps	CH 36	5180	8.08	9.0	11.0	98.06
		CH 44	5220	8.25	9.0	11.0	
		CH 48	5240	8.27	9.0	11.0	
	802.11n-HT20 MCS0	CH 36	5180	7.07	8.0	10.0	97.71
		CH 44	5220	7.05	8.0	10.0	
		CH 48	5240	7.04	8.0	10.0	
	802.11n-HT40 MCS0	CH 38	5190	7.24	8.0	10.0	95.96
		CH 46	5230	7.26	8.0	10.0	
	802.11ac-VHT20 MCS0	CH 36	5180	6.25	7.0	9.5	98.35
		CH 44	5220	6.24	7.0	9.5	
		CH 48	5240	6.23	7.0	9.5	
	802.11ac-VHT40 MCS0	CH 38	5190	6.74	7.0	9.5	96.30
		CH 46	5230	6.76	7.0	9.5	
	802.11ac-VHT80 MCS0	CH 42	5210	6.39	7.0	9.5	92.07

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN CH0	802.11a 6Mbps	CH 52	5260	8.17	9.0	11.0	98.06
		CH 60	5300	8.26	9.0	11.0	
		CH 64	5320	8.24	9.0	11.0	
	802.11n-HT20 MCS0	CH 52	5260	7.11	8.0	10.0	97.71
		CH 60	5300	7.12	8.0	10.0	
		CH 64	5320	7.11	8.0	10.0	
	802.11n-HT40 MCS0	CH 54	5270	7.21	8.0	10.0	95.96
		CH 62	5310	7.18	8.0	10.0	
	802.11ac-VHT20 MCS0	CH 52	5260	6.28	7.0	9.5	98.35
		CH 60	5300	6.27	7.0	9.5	
		CH 64	5320	6.25	7.0	9.5	
	802.11ac-VHT40 MCS0	CH 54	5270	6.76	7.5	9.5	96.30
		CH 62	5310	6.72	7.5	9.5	
	802.11ac-VHT80 MCS0	CH 58	5290	6.41	7.5	9.5	92.07

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN CH0	802.11a 6Mbps	CH 100	5600	8.07	9.0	11.0	98.06
		CH 120	5600	8.25	9.0	11.0	
		CH 144	5720	8.27	9.0	11.0	
	802.11n-HT20 MCS0	CH 100	5500	7.08	8.0	10.0	97.71
		CH 120	5600	7.09	8.0	10.0	
		CH 144	5720	7.06	8.0	10.0	
	802.11n-HT40 MCS0	CH 102	5510	7.19	8.0	10.0	95.96
		CH 126	5630	7.17	8.0	10.0	
		CH 142	5710	7.21	8.0	10.0	
	802.11ac-VHT20 MCS0	CH 100	5500	6.15	7.0	9.5	98.35
		CH 120	5600	6.17	7.0	9.5	
		CH 144	5720	6.18	7.0	9.5	
	802.11ac-VHT40 MCS0	CH 102	5510	6.73	7.5	9.5	96.30
		CH 126	5630	6.77	7.5	9.5	
		CH 142	5710	6.78	7.5	9.5	
	802.11ac-VHT80 MCS0	CH 106	5530	6.43	7.0	9.5	92.07
		CH 138	5690	6.42	7.0	9.5	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN CH1	802.11b 1Mbps	CH 1	2412	17.47	18.00	17	100.00
		CH 6	2437	16.82	17.50	17	
		CH 11	2462	17.03	17.50	17	
	802.11g 6Mbps	CH 1	2412	15.97	16.50	16	98.07
		CH 6	2437	15.87	16.50	16	
		CH 11	2462	15.71	16.50	16	
	802.11n-HT20 MCS0	CH 1	2412	15.78	16.50	16	97.93
		CH 6	2437	15.69	16.50	16	
		CH 11	2462	15.51	16.50	16	
	802.11n-HT40 MCS0	CH 3	2422	15.34	16.00	16	94.31
		CH 6	2437	15.37	16.00	16	
		CH 9	2452	15.18	16.00	16	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN CH1	802.11a 6Mbps	CH 36	5180	14.79	15.5	16.5	98.06
		CH 44	5220	14.80	15.5	16.5	
		CH 48	5240	14.60	15.5	16.5	
	802.11n-HT20 MCS0	CH 36	5180	13.85	14.50	15	97.71
		CH 44	5220	13.75	14.50	15	
		CH 48	5240	13.61	14.50	15	
	802.11n-HT40 MCS0	CH 38	5190	13.78	14.50	15	95.96
		CH 46	5230	13.66	14.50	15	
	802.11ac-VHT20 MCS0	CH 36	5180	13.11	14.0	14.5	98.35
		CH 44	5220	13.00	14.0	14.5	
		CH 48	5240	13.01	14.0	14.5	
	802.11ac-VHT40 MCS0	CH 38	5190	13.21	14.0	14.5	96.30
		CH 46	5230	13.10	14.0	14.5	
	802.11ac-VHT80 MCS0	CH 42	5210	12.82	13.5	14.5	92.07

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN CH1	802.11a 6Mbps	CH 52	5260	14.62	15.0	16.5	98.06
		CH 60	5300	14.54	15.0	16.5	
		CH 64	5320	14.43	15.0	16.5	
	802.11n-HT20 MCS0	CH 52	5260	13.63	14.0	15	97.71
		CH 60	5300	13.45	14.0	15	
		CH 64	5320	13.42	14.0	15	
	802.11n-HT40 MCS0	CH 54	5270	13.45	14.0	15	95.96
		CH 62	5310	13.54	14.0	15	
	802.11ac-VHT20 MCS0	CH 52	5260	13.09	14.0	14.5	98.35
		CH 60	5300	12.84	13.5	14.5	
		CH 64	5320	12.63	13.0	14.5	
	802.11ac-VHT40 MCS0	CH 54	5270	13.05	13.5	14.5	96.30
		CH 62	5310	12.89	13.5	14.5	
	802.11ac-VHT80 MCS0	CH 58	5290	12.58	13.0	14.5	92.07

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN CH1	802.11a 6Mbps	CH 100	5600	13.91	14.5	16.5	98.06
		CH 116	5580	13.54	14.0	16.5	
		CH 144	5720	13.48	14.0	16.5	
	802.11n-HT20 MCS0	CH 100	5500	13.02	14.0	15	97.71
		CH 116	5580	12.05	13.0	15	
		CH 144	5720	11.97	13.0	15	
	802.11n-HT40 MCS0	CH 102	5510	12.97	13.5	15	95.96
		CH 126	5630	12.57	13.0	15	
		CH 142	5710	12.44	13.0	15	
	802.11ac-VHT20 MCS0	CH 100	5500	12.08	13.0	14.5	98.35
		CH 116	5580	11.54	12.0	14.5	
		CH 144	5720	11.44	12.0	14.5	
	802.11ac-VHT40 MCS0	CH 102	5510	12.51	13.0	14.5	96.30
		CH 126	5630	11.97	12.5	14.5	
		CH 142	5710	11.88	12.5	14.5	
	802.11ac-VHT80 MCS0	CH 106	5530	11.93	12.5	14.5	92.07
		CH 138	5690	11.53	12.5	14.5	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1+2	802.11b 1Mbps	CH 1	2412	N/A	N/A	N/A	N/A
		CH 6	2437	N/A	N/A	N/A	
		CH 11	2462	N/A	N/A	N/A	
	802.11g 6Mbps	CH 1	2412	N/A	N/A	N/A	N/A
		CH 6	2437	N/A	N/A	N/A	
		CH 11	2462	N/A	N/A	N/A	
	802.11n-HT20 MCS0	CH 1	2412	18.26	18.50	16	97.93
		CH 6	2437	18.13	18.50	16	
		CH 11	2462	18.13	18.50	16	
	802.11n-HT40 MCS0	CH 3	2422	18.13	18.50	16	94.31
		CH 6	2437	18.20	18.50	16	
		CH 9	2452	17.99	18.50	16	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1+2	802.11a 6Mbps	CH 36	5180	N/A	N/A	N/A	N/A
		CH 44	5220	N/A	N/A	N/A	
		CH 48	5240	N/A	N/A	N/A	
	802.11n-HT20 MCS0	CH 36	5180	16.13	17.0	15	97.71
		CH 44	5220	16.23	17.0	15	
		CH 48	5240	16.13	17.0	15	
	802.11n-HT40 MCS0	CH 38	5190	16.33	17.0	15	95.96
		CH 46	5230	16.33	17.0	15	
		CH 36	5180	15.44	16.0	14.5	
	802.11ac-VHT20 MCS0	CH 44	5220	15.56	16.0	14.5	98.35
		CH 48	5240	15.56	16.0	14.5	
		CH 38	5190	15.80	16.5	14.5	
	802.11ac-VHT40 MCS0	CH 46	5230	15.80	16.5	14.5	96.30
		CH 42	5210	15.56	16.0	14.5	
	802.11ac-VHT80 MCS0	CH 42	5210	15.56	16.0	14.5	92.07

5.8GHz WLAN CH0	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	8.12	9.0	11.0	98.06
		CH 157	5785	8.28	9.0	11.0	
		CH 165	5825	8.28	9.0	11.0	
	802.11n-HT20 MCS0	CH 149	5745	7.12	8.0	10.0	97.71
		CH 157	5785	7.10	8.0	10.0	
		CH 165	5825	7.13	8.0	10.0	
	802.11n-HT40 MCS0	CH 151	5755	7.20	8.0	10.0	95.96
		CH 159	5795	7.23	8.0	10.0	
	802.11ac-VHT20 MCS0	CH 149	5745	6.10	7.0	9.5	98.35
		CH 157	5785	6.21	7.0	9.5	
		CH 165	5825	6.16	7.0	9.5	
	802.11ac-VHT40 MCS0	CH 151	5755	6.77	7.5	9.5	96.30
		CH 159	5795	6.71	7.5	9.5	
	802.11ac-VHT80 MCS0	CH 155	5775	6.44	7.5	9.5	92.07

5.8GHz WLAN CH1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	13.47	14.0	16.5	98.06
		CH 157	5785	13.43	14.0	16.5	
		CH 165	5825	13.33	14.0	16.5	
	802.11n-HT20 MCS0	CH 149	5745	12.00	12.5	15	97.71
		CH 157	5785	12.02	12.5	15	
		CH 165	5825	11.97	12.5	15	
	802.11n-HT40 MCS0	CH 151	5755	12.28	12.5	15	95.96
		CH 159	5795	12.11	12.5	15	
	802.11ac-VHT20 MCS0	CH 149	5745	11.17	12.0	14.5	98.35
		CH 157	5785	11.40	12.0	14.5	
		CH 165	5825	11.41	12.0	14.5	
	802.11ac-VHT40 MCS0	CH 151	5755	11.86	12.0	14.5	96.30
		CH 159	5795	11.80	12.0	14.5	
	802.11ac-VHT80 MCS0	CH 155	5775	11.39	12.0	14.5	92.07

5.8GHz WLAN ANT 1+2	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	N/A	N/A	N/A	N/A
		CH 157	5785	N/A	N/A	N/A	
		CH 165	5825	N/A	N/A	N/A	
	802.11n-HT20 MCS0	CH 149	5745	15.31	16.0	15	97.71
		CH 157	5785	15.44	16.0	15	
		CH 165	5825	15.44	16.0	15	
	802.11n-HT40 MCS0	CH 151	5755	15.68	16.0	15	95.96
		CH 159	5795	15.68	16.0	15	
	802.11ac-VHT20 MCS0	CH 149	5745	14.77	15.5	14.5	98.35
		CH 157	5785	14.91	15.5	14.5	
		CH 165	5825	14.91	15.5	14.5	
	802.11ac-VHT40 MCS0	CH 151	5755	15.31	16.0	14.5	96.30
		CH 159	5795	15.31	16.0	14.5	
	802.11ac-VHT80 MCS0	CH 155	5775	15.05	16.0	14.5	92.07

Mode	Channel	Frequency (MHz)	Average power (dBm)			Duty Cycle %
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	10.72	7.94	8.05	76.80
	CH 39	2441	10.21	7.31	7.38	
	CH 78	2480	11.91	9.43	9.42	
Tune-up Limit			12.5	10	10	

Mode	Channel	Frequency (MHz)	Average power (dBm)	Duty Cycle %
			GFSK	
LE	CH 00	2402	4.71	62.02
	CH 19	2440	4.05	
	CH 39	2480	6.35	
Tune-up Limit			7	

CA_5B(Ant 2)										
Combination:10MHz+10MHz(50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
			RB Size	RB Offset	RB Size	RB Offset				
20450	20549	QPSK	1	0	0	0	1	0	24.21	25
20525	20575	QPSK	1	0	0	0	1	0	24.27	25
20600	20600	QPSK	1	0	0	0	1	0	24.12	25
20450	20549	16QAM	1	0	0	0	1	0	23.66	24
20525	20575	16QAM	1	0	0	0	1	0	23.44	24
20600	20600	16QAM	1	0	0	0	1	0	23.31	24
20450	20549	64QAM	1	0	0	0	1	0	22.38	23
20525	20575	64QAM	1	0	0	0	1	0	22.47	23
20600	20600	64QAM	1	0	0	0	1	0	22.52	23
20450	20549	QPSK	25	0	0	0	1	0	23.45	24
20525	20575	QPSK	25	0	0	0	1	0	23.23	24
20600	20600	QPSK	25	0	0	0	1	0	23.42	24

CA_5B(Ant 0)										
Combination:10MHz+10MHz(50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
			RB Size	RB Offset	RB Size	RB Offset				
20450	20549	QPSK	1	0	0	0	1	0	23.45	24
20525	20575	QPSK	1	0	0	0	1	0	23.52	24
20600	20600	QPSK	1	0	0	0	1	0	23.38	24
20450	20549	16QAM	1	0	0	0	1	0	22.98	24
20525	20575	16QAM	1	0	0	0	1	0	23.01	24
20600	20600	16QAM	1	0	0	0	1	0	23.39	24

20450	20549	64QAM	1	0	0	0	1	0	23.3	24
20525	20575	64QAM	1	0	0	0	1	0	23.49	24
20600	20600	64QAM	1	0	0	0	1	0	23.12	24
20450	20549	QPSK	25	25	0	0	1	0	22.63	23
20525	20575	QPSK	25	25	0	0	1	0	22.57	23
20600	20600	QPSK	25	25	0	0	1	0	22.36	23

CA_41C(Ant 8)										
Combination:20MHz+20MHz(100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
			RB Size	RB Offset	RB Size	RB Offset				
39750	39948	QPSK	1	0	0	0	1	0	23.93	24.5
40185	39987	QPSK	1	0	0	0	1	0	23.84	24.5
40620	40422	QPSK	1	0	0	0	1	0	23.72	24.5
41055	40857	QPSK	1	0	0	0	1	0	23.88	24.5
41490	41292	QPSK	1	0	0	0	1	0	23.55	24.5
39750	39948	16QAM	1	0	0	0	1	0	23.62	24
40185	39987	16QAM	1	0	0	0	1	0	23.78	24
40620	40422	16QAM	1	0	0	0	1	0	23.62	24
41055	40857	16QAM	1	0	0	0	1	0	23.63	24
41490	41292	16QAM	1	0	0	0	1	0	23.88	24
39750	39948	64QAM	1	0	0	0	1	0	22.37	23
40185	39987	64QAM	1	0	0	0	1	0	22.44	23
40620	40422	64QAM	1	0	0	0	1	0	22.29	23
41055	40857	64QAM	1	0	0	0	1	0	22.16	23
41490	41292	64QAM	1	0	0	0	1	0	22.24	23
39750	39948	QPSK	50	0	0	0	1	0	23.29	24

40185	39987	QPSK	50	0	0	0	1	0	23.08	24
40620	40422	QPSK	50	0	0	0	1	0	23.49	24
41055	40857	QPSK	50	0	0	0	1	0	23.17	24
41490	41292	QPSK	50	0	0	0	1	0	23.28	24

CA_41C(Ant 7)HPUE										
Combination:20MHz+20MHz(100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
			RB Size	RB Offset	RB Size	RB Offset				
39750	39948	QPSK	1	0	0	0	1	0	26.36	27.5
40185	39987	QPSK	1	0	0	0	1	0	26.79	27.5
40620	40422	QPSK	1	0	0	0	1	0	26.98	27.5
41055	40857	QPSK	1	0	0	0	1	0	26.83	27.5
41490	41292	QPSK	1	0	0	0	1	0	26.77	27.5
39750	39948	16QAM	1	0	0	0	1	0	25.84	27
40185	39987	16QAM	1	0	0	0	1	0	26.13	27
40620	40422	16QAM	1	0	0	0	1	0	26.45	27
41055	40857	16QAM	1	0	0	0	1	0	26.22	27
41490	41292	16QAM	1	0	0	0	1	0	26.14	27
39750	39948	64QAM	1	0	0	0	1	0	25.92	27
40185	39987	64QAM	1	0	0	0	1	0	26.02	27
40620	40422	64QAM	1	0	0	0	1	0	26.31	27
41055	40857	64QAM	1	0	0	0	1	0	26.34	27
41490	41292	64QAM	1	0	0	0	1	0	26.02	27
39750	39948	QPSK	50	0	0	0	1	0	25.49	26.5
40185	39987	QPSK	50	0	0	0	1	0	25.92	26.5
40620	40422	QPSK	50	0	0	0	1	0	26.01	26.5

41055	40857	QPSK	50	0	0	0	1	0	25.99	26.5
41490	41292	QPSK	50	0	0	0	1	0	25.89	26.5

CA_66B(Ant 8)										
Combination:10MHz+10MHz(50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
			RB Size	RB Offset	RB Size	RB Offset				
132072	132121	QPSK	1	0	0	0	1	0	22.38	23
132322	132472	QPSK	1	0	0	0	1	0	22.4	23
132572	132622	QPSK	1	0	0	0	1	0	22.51	23
132072	132121	16QAM	1	0	0	0	1	0	22.34	23
132322	132472	16QAM	1	0	0	0	1	0	22.21	23
132572	132622	16QAM	1	0	0	0	1	0	22.24	23
132072	132121	64QAM	1	0	0	0	1	0	22.36	23
132322	132472	64QAM	1	0	0	0	1	0	22.25	23
132572	132622	64QAM	1	0	0	0	1	0	22.44	23
132072	132121	QPSK	50	0	0	0	1	0	21.6	22
132322	132472	QPSK	50	0	0	0	1	0	21.72	22
132572	132622	QPSK	50	0	0	0	1	0	21.73	22

CA_66B(Ant 2)										
Combination:10MHz+10MHz(50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
			RB Size	RB Offset	RB Size	RB Offset				
132072	132121	QPSK	1	0	0	0	1	0	22.42	23
132322	132472	QPSK	1	0	0	0	1	0	22.39	23
132572	132622	QPSK	1	0	0	0	1	0	22.63	23

132072	132121	16QAM	1	0	0	0	1	0	22.27	23
132322	132472	16QAM	1	0	0	0	1	0	22.3	23
132572	132622	16QAM	1	0	0	0	1	0	22.2	23
132072	132121	64QAM	1	0	0	0	1	0	22.39	23
132322	132472	64QAM	1	0	0	0	1	0	22.33	23
132572	132622	64QAM	1	0	0	0	1	0	22.51	23
132322	132472	QPSK	50	0	0	0	1	0	21.41	22
132572	132622	QPSK	50	0	0	0	1	0	21.54	22

CA_66C(Ant 8)										
Combination:20MHz+20MHz(100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
			RB Size	RB Offset	RB Size	RB Offset				
132072	132270	QPSK	1	0	0	0	1	0	22.78	23
132322	132521	QPSK	1	0	0	0	1	0	22.74	23
132572	132572	QPSK	1	0	0	0	1	0	22.64	23
132072	132270	16QAM	1	0	0	0	1	0	22.08	23
132322	132521	16QAM	1	0	0	0	1	0	22.03	23
132572	132572	16QAM	1	0	0	0	1	0	22.02	23
132072	132270	64QAM	1	0	0	0	1	0	22.14	23
132322	132521	64QAM	1	0	0	0	1	0	22.09	23
132572	132572	64QAM	1	0	0	0	1	0	22.21	23
132072	132270	QPSK	50	0	0	0	1	0	21.96	22.5
132322	132521	QPSK	50	0	0	0	1	0	21.86	22.5
132572	132572	QPSK	50	0	0	0	1	0	21.64	22.5

CA_66C(Ant 2)

Combination:20MHz+20MHz(100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
			RB Size	RB Offset	RB Size	RB Offset				
132072	132270	QPSK	1	0	0	0	1	0	22.82	23.5
132322	132521	QPSK	1	0	0	0	1	0	22.89	23.5
132572	132572	QPSK	1	0	0	0	1	0	22.73	23.5
132072	132270	16QAM	1	0	0	0	1	0	22.21	23.5
132322	132521	16QAM	1	0	0	0	1	0	22.14	23.5
132572	132572	16QAM	1	0	0	0	1	0	22.09	23.5
132072	132270	64QAM	1	0	0	0	1	0	22.21	23.5
132322	132521	64QAM	1	0	0	0	1	0	22.13	23.5
132572	132572	64QAM	1	0	0	0	1	0	22.18	23.5
132072	132270	QPSK	50	0	0	0	1	0	21.84	22.5
132322	132521	QPSK	50	0	0	0	1	0	21.92	22.5
132572	132572	QPSK	50	0	0	0	1	0	21.73	22.5

2CC LTE Uplink for Antenna 2 & Antenna 8												
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	19100	1900	QPSK/1#0	4	20	20175	1732.5	24.15	25
	CA_2A-5A	4	20	19100	1900	QPSK/1#0	5	20	20525	836.5	23.72	24.5
	CA_2A-12A	2	20	19100	1900	QPSK/1#0	12	10	23060	704	23.33	24
	CA_2A-13A	4	20	19100	1900	QPSK/1#0	13	10	23230	782	24.51	25
	CA_2A-66A	2	20	19100	1900	QPSK/1#0	66	20	132322	1745	24.68	25
	CA_4A-5A	4	20	20175	1732.5	QPSK/1#0	5	20	20525	836.5	25.36	26
	CA_4A-12A	2	20	20175	1732.5	QPSK/1#0	12	10	23060	704	25.40	26
	CA_4A-13A	4	20	20175	1732.5	QPSK/1#0	13	10	23230	782	24.21	25
	CA_5A-66A	5	20	20525	836.5	QPSK/1#0	66	20	132322	1745	23.67	24
	CA_12A-66A	12	10	23060	704	QPSK/1#0	66	20	132322	1745	22.63	23
	CA_13A-66A	13	10	23230	782	QPSK/1#0	66	20	132322	1745	23.97	24.5

2CC LTE Uplink for Antenna 0 & Antenna 7												
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	19100	1900	QPSK/1#0	4	20	20175	1732.5	24.02	24.5
	CA_2A-5A	4	20	19100	1900	QPSK/1#0	5	20	20525	836.5	23.89	24.5
	CA_2A-12A	2	20	19100	1900	QPSK/1#0	12	10	23060	704	24.06	24.5
	CA_2A-13A	4	20	19100	1900	QPSK/1#0	13	10	23230	782	23.51	24
	CA_2A-66A	2	20	19100	1900	QPSK/1#0	66	20	132322	1745	22.23	23
	CA_4A-5A	4	20	20175	1732.5	QPSK/1#0	5	20	20525	836.5	24.22	25

	CA_4A-12A	2	20	20175	1732.5	QPSK/1#0	12	10	23060	704	24.08	24.5
	CA_4A-13A	4	20	20175	1732.5	QPSK/1#0	13	10	23230	782	24.55	25
	CA_5A-66A	5	20	20525	836.5	QPSK/1#0	66	20	132322	1745	24.75	25
	CA_12A-66A	12	10	23060	704	QPSK/1#0	66	20	132322	1745	23.21	24
	CA_13A-66A	13	10	23230	782	QPSK/1#0	66	20	132322	1745	23.62	24

2CC LTE Downlink for Top Antenna														
Configure		CA Configuration	Ant	PCC				SCC				Power		
				Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band	Non Continuous	CA_2A-2A	Ant 8	2	20	19100	1900	QPSK/1#0	2	5	1175	1987.5	23.48	24.07
		CA_4A-4A	Ant 8	4	20	20175	1732.5	QPSK/1#0	4	5	2375	2152.5	24.88	25.37
		CA_5A-5A	Ant 2	5	10	20450	829	QPSK/1#0	5	5	2522	881.2	22.37	22.69
Inter-band		CA_2A-17A	Ant 8	2	20	19100	1900	QPSK/1#0	17	10	5800	741	22.51	24.07
		CA_4A-17A	Ant 8	4	20	20175	1732.5	QPSK/1#0	17	10	5800	741	24.35	25.37

2CC LTE Downlink for Bottom Antenna														
Configure		CA Configuration	Ant	PCC				SCC				Power		
				Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band	Non Continuous	CA_2A-2A	Ant 7	2	20	19100	1900	QPSK/1#49	2	5	1175	1987.5	22.36	23.56
		CA_4A-4A	Ant 7	4	20	20175	1732.5	QPSK/1#0	4	5	2375	2152.5	20.21	20.21
		CA_5A-5A	Ant 0	5	10	20525	836.5	QPSK/1#0	5	5	2522	881.2	22.24	22.69
Inter-band		CA_2A-17A	Ant 7	2	20	19100	1900	QPSK/1#0	17	10	5800	741	22.32	23.56
		CA_4A-17A	Ant 7	4	20	20175	1732.5	QPSK/1#0	17	10	5800	741	20.14	20.21

3CC LTE Downlink for Top Antenna																	
Configure	CA Configuration	Ant	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)
Inter-band	CA_2A-4A-13A	Ant 8	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	13	10	5230	751	22.41	24.07
	CA_4A-4A-13A	Ant 8	4	20	20175	1732.5	QPSK/1#0	4	20	2175	2132.5	13	10	5230	751	24.02	25.37
	CA_4A-4A-71A	Ant 8	4	20	20175	1732.5	QPSK/1#0	4	20	2175	2132.5	71	20	68768	635.2	24.11	25.37
	CA_4A-5A-12A	Ant 8	4	20	20175	1732.5	QPSK/1#0	5	10	2450	874	12	10	5060	734	23.51	25.37
	CA_5A-12A-66A	Ant 8	5	10	20450	829	QPSK/1#0	12	10	5060	704	66	20	66886	2155	23.55	22.69
	CA_5A-12B	Ant 2	5	10	20450	829	QPSK/1#0	12	10	5060	704	12	10	5060	734	23.65	22.69
	CA_25A-25A-25A	Ant 8	25	20	26365	1882.5	QPSK/1#49	25	20	8365	1962.5	25	20	8365	1962.5	23.17	24.53
	CA_25A-25A-26A	Ant 8	25	20	26365	1882.5	QPSK/1#49	25	20	8365	1962.5	26	15	8965	886.5	23.34	24.53
	CA_26A-41C	Ant 2	26	15	26965	841.5	QPSK/1#0	41	20	40620	2593	41	20	40620	2593	23.17	22.99
	CA_41A-41A-41A	Ant 8	41	20	40620	2593	QPSK/1#0	41	20	40620	2593	41	20	40620	2593	23.70	24.14

3CC LTE Downlink for Bottom Antenna																	
Configure	CA Configuration	Ant	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)
Inter-band	CA_2A-4A-13A	Ant 7	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	13	10	5230	751	22.33	23.56
	CA_4A-4A-13A	Ant 7	4	20	20175	1732.5	QPSK/1#0	4	20	2175	2132.5	13	10	5230	751	23.79	25.37
	CA_4A-4A-71A	Ant 7	4	20	20175	1732.5	QPSK/1#0	4	20	2175	2132.5	71	20	68768	635.2	23.80	25.37
	CA_4A-5A-12A	Ant 7	4	20	20175	1732.5	QPSK/1#0	5	10	2525	881.5	12	10	5060	734	23.80	22.69
	CA_5A-12A-66A	Ant 7	5	10	20525	836.5	QPSK/1#0	12	10	5060	704	66	20	66886	2155	223.45	22.69
	CA_5A-12B	Ant 0	5	10	20525	836.5	QPSK/1#0	12	10	5060	704	12	10	5060	734	22.46	22.69
	CA_25A-25A-25A	Ant 7	25	20	26140	1860	QPSK/1#49	25	20	8140	1940	25	20	8365	1962.5	22.10	23.8
	CA_25A-25A-26A	Ant 7	25	20	26140	1860	QPSK/1#49	25	20	8140	1940	26	15	8765	866.5	22.09	23.8
	CA_26A-41C	Ant 0	26	15	26765	821.5	QPSK/1#0	41	20	40185	2549.5	41	20	40185	2549.5	23.17	23.85
CA_41A-41A-41A	Ant 7	41	20	40185	2549.5	QPSK/1#0	41	20	40185	2549.5	41	20	40185	2549.5	23.40	27.22	

4CC LTE Downlink for Top Antenna																					
Configure	CA Configuration	Ant	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)
	CA_2A-2A-4A-4A	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	4	20	2175	2132.5	4	20	2175	2132.5	22.98	24.07
	CA_2A-2A-4A-5A	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	4	20	2175	2132.5	5	10	2450	874	22.86	24.07
	CA_2A-2A-5A-66A	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	5	10	2450	874	66	20	66886	2155	22.67	24.07

Inter-band	CA_2A-2A-4A-12A	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	4	20	2175	2132.5	12	10	5060	704	22.98	24.07
	CA_2A-2A-4A-71A	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	4	20	2175	2132.5	71	20	68768	635.2	22.63	24.07
	CA_2A-2A-5A-12A	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	5	10	2450	874	12	10	5060	704	22.91	24.07
	CA_2A-2A-12A-66A	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	12	10	5060	704	66	20	66886	2155	22.74	24.07
	CA_2A-2A-13A-66A	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	13	10	5230	751	66	20	66886	2155	22.81	24.07
	CA_2A-2A-66A-66A	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	66	20	66886	2155	66	20	66886	2155	22.87	24.07
	CA_2A-2A-66A-71A	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	66	20	66886	2155	71	20	68768	635.2	22.77	24.07
	CA_2A-4A-4A-5A	Ant 8	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	4	20	2175	2132.5	5	10	2450	874	22.67	24.07
	CA_2A-4A-4A-12A	Ant 8	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	4	20	2175	2132.5	12	10	5060	704	22.55	24.07
	CA_2A-5A-66A-66A	Ant 8	2	20	19100	1900	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	22.79	24.07
	CA_2A-12A-66A-66A	Ant 8	2	20	19100	1900	QPSK/1#0	12	10	5060	704	66	20	66886	2155	66	20	66886	2155	22.53	24.07
	CA_2A-13A-66A-66A	Ant 8	2	20	19100	1900	QPSK/1#0	13	10	5230	751	66	20	66886	2155	66	20	66886	2155	22.65	24.07
	CA_2A-66A-66A-66A	Ant 8	2	20	19100	1900	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	22.71	24.07
	CA_2A-66A-66A-71A	Ant 8	2	20	19100	1900	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	71	20	68768	635.2	22.54	24.07
	CA_2A-2A-5B	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	5	10	2450	874	5	10	2450	874	22.63	24.07
	CA_2A-2A-66B	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	66	20	66886	2155	66	20	66886	2155	22.65	24.07
	CA_2A-2A-66C	Ant 8	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	66	20	66886	2155	66	20	66886	2155	22.58	24.07
	CA_2A-4A-12B	Ant 8	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	4	20	2175	2132.5	12	10	5060	704	22.61	24.07
	CA_2A-4A-5B	Ant 8	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	4	20	2175	2132.5	5	10	2450	874	22.68	24.07
	CA_2A-5A-66B	Ant 8	2	20	19100	1900	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	22.76	24.07
	CA_2A-5A-66C	Ant 8	2	20	19100	1900	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	22.81	24.07
	CA_2A-5B-66A	Ant 8	2	20	19100	1900	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	22.71	24.07
	CA_2A-12A-66C	Ant 8	2	20	19100	1900	QPSK/1#0	12	10	5060	704	66	20	66886	2155	66	20	66886	2155	22.58	24.07
	CA_2A-13A-66B	Ant 8	2	20	19100	1900	QPSK/1#0	13	10	5230	751	66	20	66886	2155	66	20	66886	2155	22.69	24.07
	CA_2A-13A-66C	Ant 8	2	20	19100	1900	QPSK/1#0	13	10	5230	751	66	20	66886	2155	66	20	66886	2155	22.44	24.07
	CA_2A-66A-66B	Ant 8	2	20	19100	1900	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	22.73	24.07
	CA_2A-66C-71A	Ant 8	2	20	19100	1900	QPSK/1#0	66	20	66886	2155	71	20	68768	635.2	71	20	68768	635.2	22.57	24.07
	CA_2C-66A-66A	Ant 8	2	20	19100	1900	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	22.49	24.07
	CA_4A-4A-12B	Ant 8	4	20	20175	1732.5	QPSK/1#0	4	20	2175	2132.5	12	10	5060	704	12	10	5060	704	24.43	25.37
	CA_4A-4A-5B	Ant 8	4	20	20175	1732.5	QPSK/1#0	4	20	2175	2132.5	5	10	2450	874	5	10	2450	874	23.32	25.37
	CA_5A-5A-66A-66A	Ant 2	5	10	20525	836.5	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	22.23	22.69
	CA_5A-5A-66B	Ant 2	5	10	20525	836.5	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	22.12	22.69
	CA_5A-5A-66C	Ant 2	5	10	20525	836.5	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	22.22	22.69
	CA_5A-66A-66B	Ant 2	5	10	20525	836.5	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	22.25	22.69
	CA_5B-66A-66A	Ant 2	5	10	20525	836.5	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	22.18	22.69
	CA_5B-66B	Ant 2	5	10	20525	836.5	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	22.11	22.69
	CA_5B-66C	Ant 2	5	10	20525	836.5	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	22.14	22.69
	CA_12B-66A-66A	Ant 2	12	10	23060	704	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.66	24.42
	CA_13A-66A-66A-66A	Ant 2	13	10	23230	782	QPSK/1#25	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.85	24.2
	CA_13A-66A-66B	Ant 2	13	10	23230	782	QPSK/1#25	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.69	24.2
	CA_13A-66A-66C	Ant 2	13	10	23230	782	QPSK/1#25	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.88	24.2
	CA_13A-66D	Ant 2	13	10	23230	782	QPSK/1#25	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.67	24.2
	CA_25A-25A-41C	Ant 8	25	20	26365	1882.5	QPSK/1#49	25	20	8365	1962.5	41	20	40620	2593	41	20	40620	2593	23.02	23.8
	CA_25A-41D	Ant 8	25	20	26365	1882.5	QPSK/1#49	41	20	40620	2593	41	20	40620	2593	41	20	40620	2593	23.76	23.8
	CA_41A-41A-41C	Ant 8	41	20	40620	2593	QPSK/1#0	41	20	40620	2593	41	20	40620	2593	41	20	40620	2593	23.81	24.14
	CA_41A-41D	Ant 8	41	20	40620	2593	QPSK/1#0	41	20	40620	2593	41	20	40620	2593	41	20	40620	2593	23.89	24.14
	CA_41C-41C	Ant 8	41	20	40620	2593	QPSK/1#0	41	20	40620	2593	41	20	40620	2593	41	20	40620	2593	23.66	24.14
	CA_41E	Ant 8	41	20	40620	2593	QPSK/1#0	41	20	40620	2593	41	20	40620	2593	41	20	40620	2593	23.67	24.14

4CC LTE Downlink for Bottom Antenna																					
Configure	CA Configuration	Ant	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)
	CA_2A-2A-4A-4A	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	4	20	2175	2132.5	4	20	2175	2132.5	23.87	23.56
	CA_2A-2A-4A-5A	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	4	20	2175	2132.5	5	10	20525	836.5	23.64	23.56

Inter-band	CA_2A-2A-5A-66A	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	5	10	20525	836.5	66	20	66886	2155	23.61	23.56
	CA_2A-2A-4A-12A	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	4	20	2175	2132.5	12	10	5060	704	23.22	23.56
	CA_2A-2A-4A-71A	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	4	20	2175	2132.5	71	20	68768	635.2	22.57	23.56
	CA_2A-2A-5A-12A	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	5	10	20525	836.5	12	10	5060	704	23.12	23.56
	CA_2A-2A-12A-66A	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	12	10	5060	734	66	20	66886	2155	23.33	23.56
	CA_2A-2A-13A-66A	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	13	10	5230	751	66	20	66886	2155	23.24	23.56
	CA_2A-2A-66A-66A	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	66	20	66886	2155	66	20	66886	2155	23.55	23.56
	CA_2A-2A-66A-71A	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	66	20	66886	2155	71	20	68768	635.2	22.57	23.56
	CA_2A-4A-4A-5A	Ant 7	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	4	20	2175	2132.5	5	10	20525	836.5	23.44	23.56
	CA_2A-4A-4A-12A	Ant 7	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	4	20	2175	2132.5	12	10	5060	704	23.23	23.56
	CA_2A-5A-66A-66A	Ant 7	2	20	19100	1900	QPSK/1#0	5	10	2525	881.5	66	20	66886	2155	66	20	66886	2155	23.55	23.56
	CA_2A-12A-66A-66A	Ant 7	2	20	19100	1900	QPSK/1#0	12	10	5060	734	66	20	66886	2155	66	20	66886	2155	23.57	23.56
	CA_2A-13A-66A-66A	Ant 7	2	20	19100	1900	QPSK/1#0	13	10	5230	751	66	20	66886	2155	66	20	66886	2155	23.28	23.56
	CA_2A-66A-66A-66A	Ant 7	2	20	19100	1900	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.37	23.56
	CA_2A-66A-66A-71A	Ant 7	2	20	19100	1900	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.84	23.56
	CA_2A-2A-5B	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	5	10	20525	836.5	5	10	20525	836.5	23.42	23.56
	CA_2A-2A-66B	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	66	20	66886	2155	66	20	66886	2155	23.62	23.56
	CA_2A-2A-66C	Ant 7	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	66	20	66886	2155	66	20	66886	2155	23.55	23.56
	CA_2A-4A-12B	Ant 7	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	4	20	2175	2132.5	12	10	5060	704	23.44	23.56
	CA_2A-4A-5B	Ant 7	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	4	20	2175	2132.5	5	10	20525	836.5	23.55	23.56
	CA_2A-5A-66B	Ant 7	2	20	19100	1900	QPSK/1#0	5	10	2525	881.5	66	20	66886	2155	66	20	66886	2155	23.44	23.56
	CA_2A-5A-66C	Ant 7	2	20	19100	1900	QPSK/1#0	5	10	2525	881.5	66	20	66886	2155	66	20	66886	2155	23.34	23.56
	CA_2A-5B-66A	Ant 7	2	20	19100	1900	QPSK/1#0	5	10	2525	881.5	66	20	66886	2155	66	20	66886	2155	23.58	23.56
	CA_2A-12A-66C	Ant 7	2	20	19100	1900	QPSK/1#0	12	10	5060	704	66	20	66886	2155	66	20	66886	2155	23.42	23.56
	CA_2A-13A-66B	Ant 7	2	20	19100	1900	QPSK/1#0	13	10	5230	751	66	20	66886	2155	66	20	66886	2155	23.72	23.56
	CA_2A-13A-66C	Ant 7	2	20	19100	1900	QPSK/1#0	13	10	5230	751	66	20	66886	2155	66	20	66886	2155	23.55	23.56
	CA_2A-66A-66B	Ant 7	2	20	19100	1900	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.62	23.56
	CA_2A-66C-71A	Ant 7	2	20	19100	1900	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	71	20	68768	635.2	22.57	23.56
	CA_2C-66A-66A	Ant 7	2	20	19100	1900	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.58	23.56
	CA_4A-4A-12B	Ant 7	4	20	20175	1732.5	QPSK/1#0	4	20	2175	2132.5	12	10	5060	704	12	10	5060	704	23.42	25.37
	CA_4A-4A-5B	Ant 7	4	20	20175	1732.5	QPSK/1#0	4	20	2175	2132.5	5	10	20525	836.5	5	10	20525	836.5	23.27	25.37
	CA_5A-5A-66A-66A	Ant 0	5	10	20525	836.5	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	23.21	22.69
	CA_5A-5A-66B	Ant 0	5	10	20525	836.5	QPSK/1#0	5	10	2525	881.5	66	20	66886	2155	66	20	66886	2155	23.48	22.69
	CA_5A-5A-66C	Ant 0	5	10	20525	836.5	QPSK/1#0	5	10	2525	881.5	66	20	66886	2155	66	20	66886	2155	23.11	22.69
	CA_5A-66A-66B	Ant 0	5	10	20525	836.5	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.50	22.69
	CA_5B-66A-66A	Ant 0	5	10	20525	836.5	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.41	22.69
	CA_5B-66B	Ant 0	5	10	20525	836.5	QPSK/1#0	5	10	2525	881.5	66	20	66886	2155	66	20	66886	2155	23.47	22.69
	CA_5B-66C	Ant 0	5	10	20525	836.5	QPSK/1#0	5	10	2525	881.5	66	20	66886	2155	66	20	66886	2155	23.33	22.69
	CA_12B-66A-66A	Ant 0	12	10	23060	704	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.14	23.93
	CA_13A-66A-66A-66A	Ant 0	13	10	23230	782	QPSK/1#25	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.01	23.09
	CA_13A-66A-66B	Ant 0	13	10	23230	782	QPSK/1#25	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.16	23.09
	CA_13A-66A-66C	Ant 0	13	10	23230	782	QPSK/1#25	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.18	23.09
	CA_13A-66D	Ant 0	13	10	23230	782	QPSK/1#25	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	23.07	23.09
	CA_25A-25A-41C	Ant 7	25	20	26365	1882.5	QPSK/1#49	25	20	8140	1940	41	20	40185	2549.5	41	20	40185	2549.5	23.09	23.8
	CA_25A-41D	Ant 7	25	20	26365	1882.5	QPSK/1#49	41	20	40185	2549.5	41	20	40185	2549.5	41	20	40185	2549.5	23.22	23.8
	CA_41A-41A-41C	Ant 7	41	20	40620	2593	QPSK/1#0	41	20	40185	2549.5	41	20	40185	2549.5	41	20	40185	2549.5	23.35	27.22
	CA_41A-41D	Ant 7	41	20	40620	2593	QPSK/1#0	41	20	40185	2549.5	41	20	40185	2549.5	41	20	40185	2549.5	23.12	27.22
	CA_41C-41C	Ant 7	41	20	40620	2593	QPSK/1#0	41	20	40185	2549.5	41	20	40185	2549.5	41	20	40185	2549.5	23.42	27.22
	CA_41E	Ant 7	41	20	40620	2593	QPSK/1#0	41	20	40185	2549.5	41	20	40185	2549.5	41	20	40185	2549.5	23.34	27.22

[illegible]

EN-DC_13A-N2									
BSF Index	Modulation	RB Size	RB Offset	Low Channel	Midle Channel	High Channel	Time range (in slots)		
Channel 1									
Frequency offset									
0	QPSK	1	1	23.78	24.13	23.91	25		
1	16-QAM	1	1	24.49	25.23	24.60			
2	64-QAM	1	1	24.79	25.74	24.76			
3	256-QAM	1	1	23.88	25.13	24.40			
4	QPSK	2	1	24.17	24.33	24.25	24		
5	16-QAM	2	1	23.88	24.88	24.38			
6	64-QAM	2	1	23.88	24.40	24.40			
7	256-QAM	2	1	23.88	24.40	24.40			
8	QPSK	1	1	23.88	24.40	24.40	23		
9	16-QAM	1	1	23.88	24.40	24.40			
10	64-QAM	1	1	23.88	24.40	24.40			
11	256-QAM	1	1	23.88	24.40	24.40			
12	QPSK	2	1	23.88	24.40	24.40	24		
13	16-QAM	2	1	23.88	24.40	24.40			
14	64-QAM	2	1	23.88	24.40	24.40			
15	256-QAM	2	1	23.88	24.40	24.40			
16	QPSK	1	1	23.88	24.40	24.40	23		
17	16-QAM	1	1	23.88	24.40	24.40			
18	64-QAM	1	1	23.88	24.40	24.40			
19	256-QAM	1	1	23.88	24.40	24.40			
20	QPSK	2	1	23.88	24.40	24.40	24		
21	16-QAM	2	1	23.88	24.40	24.40			
22	64-QAM	2	1	23.88	24.40	24.40			
23	256-QAM	2	1	23.88	24.40	24.40			
24	QPSK	1	1	23.88	24.40	24.40	23		
25	16-QAM	1	1	23.88	24.40	24.40			
26	64-QAM	1	1	23.88	24.40	24.40			
27	256-QAM	1	1	23.88	24.40	24.40			
Channel 2									
Frequency offset									
0	QPSK	1	1	23.78	23.93	23.85	25		
1	16-QAM	1	1	23.88	23.71	23.82			
2	64-QAM	1	1	23.88	23.71	23.82			
3	256-QAM	1	1	23.88	23.71	23.82			
4	QPSK	2	1	23.71	23.43	23.57	24		
5	16-QAM	2	1	23.71	23.43	23.57			
6	64-QAM	2	1	23.71	23.43	23.57			
7	256-QAM	2	1	23.71	23.43	23.57			
8	QPSK	1	1	23.71	23.43	23.57	23		
9	16-QAM	1	1	23.71	23.43	23.57			
10	64-QAM	1	1	23.71	23.43	23.57			
11	256-QAM	1	1	23.71	23.43	23.57			
12	QPSK	2	1	23.43	23.15	23.28	24		
13	16-QAM	2	1	23.43	23.15	23.28			
14	64-QAM	2	1	23.43	23.15	23.28			
15	256-QAM	2	1	23.43	23.15	23.28			
16	QPSK	1	1	23.43	23.15	23.28	23		
17	16-QAM	1	1	23.43	23.15	23.28			
18	64-QAM	1	1	23.43	23.15	23.28			
19	256-QAM	1	1	23.43	23.15	23.28			
20	QPSK	2	1	23.15	22.87	23.01	24		
21	16-QAM	2	1	23.15	22.87	23.01			
22	64-QAM	2	1	23.15	22.87	23.01			
23	256-QAM	2	1	23.15	22.87	23.01			
24	QPSK	1	1	23.15	22.87	23.01	23		
25	16-QAM	1	1	23.15	22.87	23.01			
26	64-QAM	1	1	23.15	22.87	23.01			
27	256-QAM	1	1	23.15	22.87	23.01			
28	QPSK	2	1	22.87	22.59	22.72	24		
29	16-QAM	2	1	22.87	22.59	22.72			
30	64-QAM	2	1	22.87	22.59	22.72			
31	256-QAM	2	1	22.87	22.59	22.72			
32	QPSK	1	1	22.87	22.59	22.72	23		
33	16-QAM	1	1	22.87	22.59	22.72			
34	64-QAM	1	1	22.87	22.59	22.72			
35	256-QAM	1	1	22.87	22.59	22.72			
36	QPSK	2	1	22.59	22.31	22.45	24		
37	16-QAM	2	1	22.59	22.31	22.45			
38	64-QAM	2	1	22.59	22.31	22.45			
39	256-QAM	2	1	22.59	22.31	22.45			
40	QPSK	1	1	22.59	22.31	22.45	23		
41	16-QAM	1	1	22.59	22.31	22.45			
42	64-QAM	1	1	22.59	22.31	22.45			
43	256-QAM	1	1	22.59	22.31	22.45			
44	QPSK	2	1	22.31	22.03	22.17	24		
45	16-QAM	2	1	22.31	22.03	22.17			
46	64-QAM	2	1	22.31	22.03	22.17			
47	256-QAM	2	1	22.31	22.03	22.17			
48	QPSK	1	1	22.31	22.03	22.17	23		
49	16-QAM	1	1	22.31	22.03	22.17			
50	64-QAM	1	1	22.31	22.03	22.17			
51	256-QAM	1	1	22.31	22.03	22.17			
52	QPSK	2	1	22.03	21.75	21.89	24		
53	16-QAM	2	1	22.03	21.75	21.89			
54	64-QAM	2	1	22.03	21.75	21.89			
55	256-QAM	2	1	22.03	21.75	21.89			
56	QPSK	1	1	22.03	21.75	21.89	23		
57	16-QAM	1	1	22.03	21.75	21.89			
58	64-QAM	1	1	22.03	21.75	21.89			
59	256-QAM	1	1	22.03	21.75	21.89			
60	QPSK	2	1	21.75	21.47	21.61	24		
61	16-QAM	2	1	21.75	21.47	21.61			
62	64-QAM	2	1	21.75	21.47	21.61			
63	256-QAM	2	1	21.75	21.47	21.61			
64	QPSK	1	1	21.75	21.47	21.61	23		
65	16-QAM	1	1	21.75	21.47	21.61			
66	64-QAM	1	1	21.75	21.47	21.61			
67	256-QAM	1	1	21.75	21.47	21.61			
68	QPSK	2	1	21.47	21.19	21.33	24		
69	16-QAM	2	1	21.47	21.19	21.33			
70	64-QAM	2	1	21.47	21.19	21.33			
71	256-QAM	2	1	21.47	21.19	21.33			
72	QPSK	1	1	21.47	21.19	21.33	23		
73	16-QAM	1	1	21.47	21.19	21.33			
74	64-QAM	1	1	21.47	21.19	21.33			
75	256-QAM	1	1	21.47	21.19	21.33			
76	QPSK	2	1	21.19	20.91	21.05	24		
77	16-QAM	2	1	21.19	20.91	21.05			
78	64-QAM	2	1	21.19	20.91	21.05			
79	256-QAM	2	1	21.19	20.91	21.05			
80	QPSK	1	1	21.19	20.91	21.05	23		
81	16-QAM	1	1	21.19	20.91	21.05			
82	64-QAM	1	1	21.19	20.91	21.05			
83	256-QAM	1	1	21.19	20.91	21.05			
84	QPSK	2	1	20.91	20.63	20.77	24		
85	16-QAM	2	1	20.91	20.63	20.77			
86	64-QAM	2	1	20.91	20.63	20.77			
87	256-QAM	2	1	20.91	20.63	20.77			
88	QPSK	1	1	20.91	20.63	20.77	23		
89	16-QAM	1	1	20.91	20.63	20.77			
90	64-QAM	1	1	20.91	20.63	20.77			
91	256-QAM	1	1	20.91	20.63	20.77			
92	QPSK	2	1	20.63	20.35	20.49	24		
93	16-QAM	2	1	20.63	20.35	20.49			
94	64-QAM	2	1	20.63	20.35	20.49			
95	256-QAM	2	1	20.63	20.35	20.49			
96	QPSK	1	1	20.63	20.35	20.49	23		
97	16-QAM	1	1	20.63	20.35	20.49			
98	64-QAM	1	1	20.63	20.35	20.49			
99	256-QAM	1	1	20.63	20.35	20.49			
100	QPSK	2	1	20.35	20.07	20.21	24		
101	16-QAM	2	1	20.35	20.07	20.21			
102	64-QAM	2	1	20.35	20.07	20.21			
103	256-QAM	2	1	20.35	20.07	20.21			
104	QPSK	1	1	20.35	20.07	20.21	23		
105	16-QAM	1	1	20.35	20.07	20.21			
106	64-QAM	1	1	20.35	20.07	20.21			
107	256-QAM	1	1	20.35	20.07	20.21			
108	QPSK	2	1	20.07	19.79	19.93	24		
109	16-QAM	2	1	20.07	19.79	19.93			
110	64-QAM	2	1	20.07	19.79	19.93			
111	256-QAM	2	1	20.07	19.79	19.93			
112	QPSK	1	1	20.07	19.79	19.93	23		
113	16-QAM	1	1	20.07	19.79	19.93			
114	64-QAM	1	1	20.07	19.79	19.93			
115	256-QAM	1	1	20.07	19.79	19.93			
116	QPSK	2	1	19.79	19.51	19.65	24		
117	16-QAM	2	1	19.79	19.51	19.65			
118	64-QAM	2	1	19.79	19.51	19.65			
119	256-QAM	2	1	19.79	19.51	19.65			
120	QPSK	1	1	19.79	19.51	19.65	23		
121	16-QAM	1	1	19.79	19.51	19.65			
122	64-QAM	1	1	19.79	19.51	19.65			
123	256-QAM	1	1	19.79	19.51	19.65			

[illegible]

EN-DC_66A-N2										
Ref ID/Ref	Modulation	Ref Size	Ref Color	Low Channel	Mid Channel	High Channel	Page	Version	Ref ID/Ref	Ref Color
Channel										
Frequency (MHz)										
1	QPSK	1	1	22.00	22.04	22.08	24	24	1	1
2	QPSK	1	1	22.08	22.12	22.16	24		2	1
3	QPSK	1	1	22.16	22.20	22.24	24		3	1
4	QPSK	1	1	22.24	22.28	22.32	24		4	1
5	QPSK	1	1	22.32	22.36	22.40	24	23	5	1
6	QPSK	1	1	22.40	22.44	22.48	24		6	1
7	QPSK	1	1	22.48	22.52	22.56	24		7	1
8	QPSK	1	1	22.56	22.60	22.64	24		8	1
9	QPSK	1	1	22.64	22.68	22.72	24	24	9	1
10	QPSK	1	1	22.72	22.76	22.80	24		10	1
11	QPSK	1	1	22.80	22.84	22.88	24		11	1
12	QPSK	1	1	22.88	22.92	22.96	24		12	1
13	QPSK	1	1	22.96	23.00	23.04	24	25	13	1
14	QPSK	1	1	23.04	23.08	23.12	24		14	1
15	QPSK	1	1	23.12	23.16	23.20	24		15	1
16	QPSK	1	1	23.20	23.24	23.28	24		16	1
17	QPSK	1	1	23.28	23.32	23.36	24	26	17	1
18	QPSK	1	1	23.36	23.40	23.44	24		18	1
19	QPSK	1	1	23.44	23.48	23.52	24		19	1
20	QPSK	1	1	23.52	23.56	23.60	24		20	1
21	QPSK	1	1	23.60	23.64	23.68	24	27	21	1
22	QPSK	1	1	23.68	23.72	23.76	24		22	1
23	QPSK	1	1	23.76	23.80	23.84	24		23	1
24	QPSK	1	1	23.84	23.88	23.92	24		24	1
25	QPSK	1	1	23.92	23.96	24.00	24	28	25	1
26	QPSK	1	1	24.00	24.04	24.08	24		26	1
27	QPSK	1	1	24.08	24.12	24.16	24		27	1
28	QPSK	1	1	24.16	24.20	24.24	24		28	1
29	QPSK	1	1	24.24	24.28	24.32	24	29	29	1
30	QPSK	1	1	24.32	24.36	24.40	24		30	1
31	QPSK	1	1	24.40	24.44	24.48	24		31	1
32	QPSK	1	1	24.48	24.52	24.56	24		32	1
33	QPSK	1	1	24.56	24.60	24.64	24	30	33	1
34	QPSK	1	1	24.64	24.68	24.72	24		34	1
35	QPSK	1	1	24.72	24.76	24.80	24		35	1
36	QPSK	1	1	24.80	24.84	24.88	24		36	1
37	QPSK	1	1	24.88	24.92	24.96	24	31	37	1
38	QPSK	1	1	24.96	25.00	25.04	24		38	1
39	QPSK	1	1	25.04	25.08	25.12	24		39	1
40	QPSK	1	1	25.12	25.16	25.20	24		40	1
41	QPSK	1	1	25.20	25.24	25.28	24	32	41	1
42	QPSK	1	1	25.28	25.32	25.36	24		42	1
43	QPSK	1	1	25.36	25.40	25.44	24		43	1
44	QPSK	1	1	25.44	25.48	25.52	24		44	1
45	QPSK	1	1	25.52	25.56	25.60	24	33	45	1
46	QPSK	1	1	25.60	25.64	25.68	24		46	1
47	QPSK	1	1	25.68	25.72	25.76	24		47	1
48	QPSK	1	1	25.76	25.80	25.84	24		48	1
49	QPSK	1	1	25.84	25.88	25.92	24	34	49	1
50	QPSK	1	1	25.92	25.96	26.00	24		50	1
51	QPSK	1	1	26.00	26.04	26.08	24		51	1
52	QPSK	1	1	26.08	26.12	26.16	24		52	1
53	QPSK	1	1	26.16	26.20	26.24	24	35	53	1
54	QPSK	1	1	26.24	26.28	26.32	24		54	1
55	QPSK	1	1	26.32	26.36	26.40	24		55	1
56	QPSK	1	1	26.40	26.44	26.48	24		56	1
57	QPSK	1	1	26.48	26.52	26.56	24	36	57	1
58	QPSK	1	1	26.56	26.60	26.64	24		58	1
59	QPSK	1	1	26.64	26.68	26.72	24		59	1
60	QPSK	1	1	26.72	26.76	26.80	24		60	1
61	QPSK	1	1	26.80	26.84	26.88	24	37	61	1
62	QPSK	1	1	26.88	26.92	26.96	24		62	1
63	QPSK	1	1	26.96	27.00	27.04	24		63	1
64	QPSK	1	1	27.04	27.08	27.12	24		64	1
65	QPSK	1	1	27.12	27.16	27.20	24	38	65	1
66	QPSK	1	1	27.20	27.24	27.28	24		66	1
67	QPSK	1	1	27.28	27.32	27.36	24		67	1
68	QPSK	1	1	27.36	27.40	27.44	24		68	1
69	QPSK	1	1	27.44	27.48	27.52	24	39	69	1
70	QPSK	1	1	27.52	27.56	27.60	24		70	1
71	QPSK	1	1	27.60	27.64	27.68	24		71	1
72	QPSK	1	1	27.68	27.72	27.76	24		72	1
73	QPSK	1	1	27.76	27.80	27.84	24	40	73	1
74	QPSK	1	1	27.84	27.88	27.92	24		74	1
75	QPSK	1	1	27.92	27.96	28.00	24		75	1
76	QPSK	1	1	28.00	28.04	28.08	24		76	1
77	QPSK	1	1	28.08	28.12	28.16	24	41	77	1
78	QPSK	1	1	28.16	28.20	28.24	24		78	1
79	QPSK	1	1	28.24	28.28	28.32	24		79	1
80	QPSK	1	1	28.32	28.36	28.40	24		80	1
81	QPSK	1	1	28.40	28.44	28.48	24	42	81	1
82	QPSK	1	1	28.48	28.52	28.56	24		82	1
83	QPSK	1	1	28.56	28.60	28.64	24		83	1
84	QPSK	1	1	28.64	28.68	28.72	24		84	1
85	QPSK	1	1	28.72	28.76	28.80	24	43	85	1
86	QPSK	1	1	28.80	28.84	28.88	24		86	1
87	QPSK	1	1	28.88	28.92	28.96	24		87	1
88	QPSK	1	1	28.96	29.00	29.04	24		88	1
89	QPSK	1	1	29.04	29.08	29.12	24	44	89	1
90	QPSK	1	1	29.12	29.16	29.20	24		90	1
91	QPSK	1	1	29.20	29.24	29.28	24		91	1
92	QPSK	1	1	29.28	29.32	29.36	24		92	1
93	QPSK	1	1	29.36	29.40	29.44	24	45	93	1
94	QPSK	1	1	29.44	29.48	29.52	24		94	1
95	QPSK	1	1	29.52	29.56	29.60	24		95	1
96	QPSK	1	1	29.60	29.64	29.68	24		96	1
97	QPSK	1	1	29.68	29.72	29.76	24	46	97	1
98	QPSK	1	1	29.76	29.80	29.84	24		98	1
99	QPSK	1	1	29.84	29.88	29.92	24		99	1
100	QPSK	1	1	29.92	29.96	30.00	24		100	1
Channel										
Frequency (MHz)										
1	QPSK	1	1	28.00	28.04	28.08	24	24	1	1
2	QPSK	1	1	28.08	28.12	28.16	24		2	1
3	QPSK	1	1	28.16	28.20	28.24	24		3	1
4	QPSK	1	1	28.24	28.28	28.32	24		4	1
5	QPSK	1	1	28.32	28.36	28.40	24	23	5	1
6	QPSK	1	1	28.40	28.44	28.48	24		6	1
7	QPSK	1	1	28.48	28.52	28.56	24		7	1
8	QPSK	1	1	28.56	28.60	28.64	24		8	1
9	QPSK	1	1	28.64	28.68	28.72	24	24	9	1
10	QPSK	1	1	28.72	28.76	28.80	24		10	1
11	QPSK	1	1	28.80	28.84	28.88	24		11	1
12	QPSK	1	1	28.88	28.92	28.96	24		12	1
13	QPSK	1	1	28.96	29.00	29.04	24	25	13	1
14	QPSK	1	1	29.04	29.08	29.12	24		14	1
15	QPSK	1	1	29.12	29.16	29.20	24		15	1
16	QPSK	1	1	29.20	29.24	29.28	24		16	1
17	QPSK	1	1	29.28	29.32	29.36	24	26	17	1
18	QPSK	1	1	29.36	29.40	29.44	24		18	1
19	QPSK	1	1	29.44	29.48	29.52	24		19	1
20	QPSK	1	1	29.52	29.56	29.60	24		20	1
21	QPSK	1	1	29.60	29.64	29.68	24	27	21	1
22	QPSK	1	1	29.68	29.72	29.76	24		22	1
23	QPSK	1	1	29.76	29.80	29.84	24		23	1
24	QPSK	1	1	29.84	29.88	29.92	24		24	1
25	QPSK	1	1	29.92	29.96	30.00	24	28	25	1
26	QPSK	1	1	30.00	30.04	30.08	24		26	1
27	QPSK	1	1	30.08	30.12	30.16	24		27	1
28	QPSK	1	1	30.16	30.20	30.24	24		28	1
29	QPSK	1	1	30.24	30.28	30.32	24	29	29	1
30	QPSK	1	1	30.32	30.36	30.40	24		30	1
31	QPSK	1	1	30.40	30.44	30.48	24		31	1
32	QPSK	1	1	30.48	30.52	30.56	24		32	1
33	QPSK	1	1	30.56	30.60	30.64	24	30	33	1
34	QPSK	1	1	30.64	30.68	30.72	24		34	1
35	QPSK	1	1	30.72	30.76	30.80	24		35	1
36	QPSK	1	1	30.80	30.84	30.88	24		36	1
37	QPSK	1	1	30.88	30.92	30.96	24	31	37	1
38	QPSK	1	1	30.96	31.00	31.04	24		38	1
39	QPSK	1	1	31.04	31.08	31.12	24		39	1
40	QPSK	1	1	31.12	31.16	31.20	24		40	1
41	QPSK	1	1	31.20	31.24	31.28	24	32	41	1
42	QPSK	1	1	31.28	31.32	31.36	24		42	1
43	QPSK	1	1	31.36	31.40	31.44	24		43	1
44	QPSK	1	1	31.44	31.48	31.52	24		44	1
45	QPSK	1	1	31.52	31.56	31.60	24	33	45	1
46	QPSK	1	1	31.60	31.64	31.68	24		46	1
47	QPSK	1	1	31.68	31.72	31.7				

EN-DC_2A-N41

EN-DC_2A-N41

EN-DC_25A-N41

RF Band	Modulation	RB Size	RB Offset	Low Channel	Mid-Low Channel	Mid-High Channel	High Channel	Time slot (ms)
Channel: 509000 513600 518000 522800 528000								
100	Frequency (MHz)	1	1	50900	51360	51800	52280	
100	1	1	1	26.07	26.29	26.52	26.75	27.5
100	1	1	136	26.46	26.72	26.78	26.98	27.5
100	1	271	26.62	26.70	26.45	26.78	26.58	
100	100	0	26.58	26.46	26.46	26.46	26.46	
100	100	60	26.58	26.67	26.52	26.48	26.75	27.5
100	135	135	26.25	26.13	26.48	26.75	26.48	
100	135	0	26.48	26.57	26.45	26.75	26.48	
100	1	1	26.25	26.75	26.58	26.78	26.74	27.5
100	1	136	26.58	26.45	26.47	26.54	26.70	
100	1	271	26.62	26.57	26.57	26.74	26.68	
100	100	0	26.74	26.77	26.46	26.72	26.97	
100	100	60	26.65	26.88	26.14	26.69	26.43	26.5
100	135	135	26.41	26.47	26.64	26.58	26.47	
100	135	0	26.54	26.61	26.44	26.46	26.50	
100	1	1	26.54	26.79	26.68	26.76	26.97	
100	1	136	26.58	26.65	26.46	26.78	26.48	26.5
100	1	271	26.41	26.62	26.40	26.43	26.67	
100	100	0	26.74	26.64	26.61	26.48	26.74	
100	135	60	26.48	26.88	26.09	26.60	26.85	26.5
100	135	135	26.35	26.22	26.57	26.68	26.47	
100	135	0	26.45	26.78	26.38	26.49	26.38	
100	1	1	26.78	26.75	26.37	26.45	26.85	
100	1	136	26.46	26.52	26.49	26.43	26.34	26.5
100	1	271	26.62	26.63	26.40	26.48	26.48	
100	100	0	26.38	26.68	26.58	26.38	26.38	
100	100	60	26.67	26.75	26.38	26.48	26.53	26.5
100	135	135	26.63	26.58	26.58	26.48	26.48	
100	135	0	26.68	26.68	26.64	26.60	26.57	
100	1	1	26.68	26.68	26.68	26.68	26.68	
100	1	136	26.63	26.61	26.58	26.60	26.63	23.5
100	1	271	26.68	26.68	26.62	26.78	26.73	
100	100	0	26.63	26.68	26.60	26.68	26.68	
100	100	60	26.70	26.73	26.64	26.72	26.65	23.5
100	135	135	26.65	26.70	26.64	26.72	26.65	
100	135	0	26.65	26.70	26.64	26.72	26.65	
Channel: 507200 511912 516368 521088 526080								
100	Frequency (MHz)	1	1	50720	51191	51636	52108	
100	1	1	1	26.14	26.36	26.46	26.48	27.5
100	1	136	26.38	26.74	26.40	26.69	26.45	
100	1	271	26.55	26.61	26.64	26.62	26.75	
100	100	0	26.78	26.38	26.31	26.32	26.40	
100	100	60	26.42	26.38	26.13	26.58	26.18	26.5
100	135	135	26.63	26.78	26.43	26.75	26.67	
100	135	0	26.48	26.78	26.78	26.75	26.75	
100	1	1	26.78	26.14	26.73	26.38	26.25	27.5
100	1	271	26.55	26.78	26.78	26.75	26.75	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.78	26.78	26.78	26.78	
100	135	135	26.78	26.78	26.78	26.78	26.78	
100	135	0	26.78	26.78	26.78	26.78	26.78	
100	1	1	26.78	26.78	26.78	26.78	26.78	
100	1	136	26.78	26.78	26.78	26.78	26.78	
100	1	271	26.78	26.78	26.78	26.78	26.78	
100	100	0	26.78	26.78	26.78	26.78	26.78	
100	100	60	26.78	26.				

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RF Band	Modulation	RB Size	RB Offset	Low Channel	Mid-Low Channel	Mid-High Channel	High Channel	Time slot (ms)
Channel: 509002 513600 518600 523600 528600								
100	Frequency (MHz)			509451	509150	509146	509150	1000
100	1	1	1	24.00	24.00	24.07	25.12	20.00
100	1	150	1	25.12	24.13	24.15	24.18	23.00
100	1	271	1	25.27	25.11	24.69	25.10	23.00
100	100	0	1	24.15	24.13	24.68	24.12	24.00
100	100	0	150	25.27	24.13	24.68	24.12	24.00
100	100	0	271	24.15	24.13	24.68	24.12	24.00
100	1	1	1	24.69	24.67	25.12	25.04	24.00
100	1	150	1	25.10	25.07	25.14	24.98	24.10
100	1	271	1	25.20	24.68	24.68	24.65	25.11
100	1	1	1	25.78	25.11	25.41	25.03	25.00
100	150	0	1	25.20	25.07	25.09	24.98	25.00
100	150	0	150	25.27	25.04	25.12	24.97	25.00
100	270	0	1	24.69	24.68	24.62	24.65	24.00
100	1	150	1	24.69	24.68	24.62	24.65	24.00
100	1	271	1	25.18	25.07	24.65	25.09	24.00
100	150	0	1	25.18	25.07	25.09	24.98	25.00
100	150	0	150	25.27	25.04	25.12	24.97	25.00
100	150	0	271	24.69	24.68	24.62	24.65	24.00
100	1	1	1	25.09	24.79	25.10	25.09	25.00
100	1	150	1	25.20	24.79	24.98	25.10	24.00
100	1	271	1	24.62	24.61	24.24	24.60	24.00
100	150	0	1	24.69	24.38	24.88	24.31	25.01
100	150	0	150	24.69	24.38	24.82	24.35	24.00
100	150	0	271	24.12	23.75	25.10	24.08	23.00
100	270	0	1	23.23	23.20	23.48	23.05	24.00
100	1	150	1	23.23	23.41	23.11	23.05	23.00
100	1	271	1	23.24	23.24	22.78	23.01	23.00
100	1	1	1	22.12	22.40	22.92	22.58	23.18
100	150	0	1	22.40	22.08	22.48	22.07	23.00
100	150	0	150	22.40	22.08	22.48	22.07	23.00
100	150	0	271	22.40	22.08	22.48	22.07	23.00
Channel: 507204 511910 516910 521910 526910								
100	Frequency (MHz)			507652	507351	507347	507351	1000
100	1	1	1	24.75	24.75	24.62	24.63	20.00
100	1	150	1	25.12	24.78	25.01	24.67	24.00
100	1	271	1	25.27	25.78	25.10	25.41	24.00
100	100	0	1	25.12	25.08	24.64	24.68	24.00
100	100	0	150	25.23	25.12	25.27	24.88	24.00
100	100	0	271	25.15	25.10	25.44	24.96	24.00
100	1	150	1	25.41	25.12	25.48	25.38	24.00
100	1	1	1	24.80	24.85	25.05	24.12	24.00
100	1	271	1	25.20	25.15	25.09	24.95	24.00
100	150	0	1	25.14	25.03	24.98	24.94	24.00
100	150	0	150	25.12	25.00	24.94	24.95	24.00
100	150	0	271	24.75	24.63	25.04	24.95	24.00
100	100	0	1	24.75	24.43	25.04	24.36	25.00
100	1	150	1	24.96	24.38	24.96	24.37	25.00
100	1	271	1	25.25	25.26	25.13	25.03	24.88
100	150	0	1	25.13	25.20	25.43	24.98	24.00
100	100	0	1	25.17	25.41	25.22	24.98	24.71
100	100	0	150	25.18	25.13	25.05	25.41	24.00
100	100	0	271	24.85	24.68	24.68	25.05	24.00
100	1	1	1	24.83	25.40	24.94	25.41	25.15
100	1	150	1	25.41	25.40	25.36	25.32	24.00
100	1	271	1	25.40	25.20	25.11	24.98	24.79
100	150	0	1	23.96	22.43	22.48	22.15	23.21
100	150	0	150	22.40	22.01	22.23	22.30	22.00
100	150	0	271	22.23	22.40	22.41	23.48	22.00
100	1	271	1	22.28	22.35	22.33	23.14	22.45
100	1	1	1	23.08	23.01	23.11	22.14	23.12
100	1	150	1	22.32	22.39	22.49	22.34	23.01
100	1	271	1	24.02	22.41	22.47	23.01	23.21
100	150	0	1	23.31	22.40	22.43	23.33	23.01
100	150	0	150	23.34	23.54	23.22	22.58	23.07
100	150	0	271	22.47	22.48	22.45	22.48	23.00
100	270	0	1	22.43	22.38	22.37	21.44	23.04
Channel: 505200 511900 516900 521900 526900								
100	Frequency (MHz)			505651	505350	505346	505350	1000
100	1	1	1	24.75	25.14	24.78	24.83	24.00
100	1	150	1	24.25	24.31	24.28	24.04	24.02
100	1	271	1	24.97	24.80	25.37	25.01	24.75
100	100	0	1	24.15	24.31	24.15	25.10	24.00
100	100	0	150	24.13	24.14	24.31	25.15	24.02
100	100	0	271	24.15	24.14	24.31	25.15	24.02
100	1	150	1	24.31	24.80	24.14	24.28	24.08
100	1	1	1	24.73	24.69	25.16	25.21	24.73
100	150	0	1	24.67	24.68	24.82	24.78	24.00
100	150	0	150	25.11	24.79	25.32	24.67	24.78
100	150	0	271	25.11	24.80	25.38	24.67	24.80
100	1	1	1	25.15	24.70	25.25	24.63	24.60
100	1	150	1	25.08	24.52	24.68	25.05	23.00
100	1	271	1	25.07	24.21	24.85	24.26	24.00
100	100	0	1	24.91	24.62	25.12	24.44	24.00
100	100	0	150	24.36	24.61	25.39	24.67	24.00
100	100	0	271	25.10	24.84	24.08	24.13	24.00
100	1	150	1	25.17	24.97	24.66	24.61	24.00
100	1	271	1	25.44	24.66	24.56	25.44	24.00
100	150	0	1	25.14	25.06	25.17	25.01	25.11
100	1	1	1	24.71	25.08	25.08	24.50	24.70
100	1	150	1	24.86	25.17	24.67	24.63	24.68
100	1	271	1	25.03	24.73	25.27	23.94	24.48
100	150	0	1	24.38	24.66	24.52	23.59	24.00
100	150	0	150	24.13	24.08	24.37	24.04	24.00
100	150	0	271	23.12	24.80	24.34	24.09	23.00
100	150	0	1	23.20	24.48	23.10	23.14	24.10
100	1	150	1	23.05	24.11	24.00	23.45	23.24
100	1	1	1	23.34	23.98	23.38	22.41	22.64
100	1	150	1	23.33	23.88	23.72	23.00	22.00
100	1	271	1	24.00	23.82	23.10	22.48	22.00
100	150	0	1	22.65	23.87	24.28	23.57	22.00
100	150	0	150	22.67	23.80	24.00	23.57	22.00
100	150	0	271	22.43	23.81	22.42	23.44	23.10
Channel: 503200 510910 516910 521910 526910								
100	Frequency (MHz)			503651	503350	503346	503350	1000
100	1	1	1	26.40	26.45	25.70	26.48	25.52
100	1	150	1	26.47	26.85	26.10	26.81	26.23
100	1	271	1	26.34	26.41	26.11	26.48	26.00
100	100	0	1	26.45	26.75	26.78	26.78	26.00
100	100	0	150	26.10	25.17	25.18	25.87	25.50
100	100	0	271	26.10	25.79	25.47	25.88	25.30
100	1	150	1	26.44	26.61	26.41	25.92	25.71
100	1	1	1	25.96	25.88	25.98	26.10	26.01
100	1	150	1	25.15	25.88	26.14	26.44	26.07
100	1	271	1	25.21	25.88	25.17	25.01	25.00
100	1	1	1	25.71	25.88	25.98	26.20	24.70
100	1	150	1	24.86	25.17	24.67	24.63	24.68
100	1	271	1	25.03	24.73	25.27	23.94	24.48
100	150	0	1	24.38	24.66	24.52	23.59	24.00
100	150	0	150	24.13	24.08	24.37	24.04	24.00
100	150	0	271	23.12	24.80	24.34	24.09	23.00
100	150	0	1	23.20	24.48	23.10	23.14	24.10
100	1	150	1	23.05	24.11	24.00	23.45	23.24
100	1	1	1	23.34	23.98	23.38	22.41	22.64
100	1	150	1	23.33	23.88	23.72	23.00	22.00
100	1	271	1	24.00	23.82	23.10	22.48	22.00
100	150	0	1	22.65	23.87	24.28	23.57	22.00
100	150	0	150	22.67	23.80	24.00	23.57	22.00
100	150	0	271	22.43	23.81	22.42	23.44	23.10
Channel: 501200 510910 516910 521910 526910								
100	Frequency (MHz)			501651	501350	501346	501350	1000
100	1	1	1	26.01	26.33	26.61	26.30	26.75
100	1	150	1	26.41	26.43	26.08	26.32	26.31
100	1	271	1	26.02	26.30	26.46	26.13	26.00
100	100	0	1	26.00	26.34	26.10	26.30	26.00
100	100	0	150	26.02	26.30	26.46	26.07	26.00
100	100	0	271	26.00	26.38	26.10	26.33	26.14
100	1	150	1	26.02	26.43	26.07	26.30	26.00
100	1	1	1	26.10	26.09	26.04	26.23	26.03
100	1	150	1	26.04	26.16	26.48	26.24	26.45
100	1	271	1	26.05	26.24	26.10	26.35	26.00
100	1	1	1	26.07	26.31	26.47	26.09	26.10
100	150	0	1	26.02	26.30	26.46	26.07	26.00

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EN-DC 2A-N66									
SB Freq	Modulation	SB Size	SB Offset	Low Channel	Mobile Station	High Channel	Transmit time (ms)		
Channel									
Frequency Reuse									
10	5G NR-SSB PDSCH (PDSCH)	1	0	2500	2511.3	2514	26.5		
10		1	0	2510	2524.9	2530			
10		1	0	2520	2538.5	2545			
10		1	0	2530	2552.1	2560			
10		1	0	2540	2565.7	2575			
10	5G NR-SSB PDSCH (PDSCH)	1	0	2550	2569.3	2575	26.5		
10		1	0	2560	2582.9	2590			
10		1	0	2570	2596.5	2605			
10		1	0	2580	2610.1	2620			
10		1	0	2590	2623.7	2635			
10	5G NR-SSB PDSCH (PDSCH)	1	0	2600	2637.3	2645	26.5		
10		1	0	2610	2650.9	2660			
10		1	0	2620	2664.5	2675			
10		1	0	2630	2678.1	2690			
10		1	0	2640	2691.7	2705			
10	5G NR-SSB PDSCH (PDSCH)	1	0	2650	2705.3	2715	26.5		
10		1	0	2660	2718.9	2730			
10		1	0	2670	2732.5	2745			
10		1	0	2680	2746.1	2760			
10		1	0	2690	2759.7	2775			
10	5G NR-SSB PDSCH (PDSCH)	1	0	2700	2773.3	2785	26.5		
10		1	0	2710	2786.9	2800			
10		1	0	2720	2800.5	2815			
10		1	0	2730	2814.1	2830			
10		1	0	2740	2827.7	2845			
10	5G NR-SSB PDSCH (PDSCH)	1	0	2750	2841.3	2855	26.5		
10		1	0	2760	2854.9	2870			
10		1	0	2770	2868.5	2885			
10		1	0	2780	2882.1	2900			
10		1	0	2790	2895.7	2915			
10	5G NR-SSB PDSCH (PDSCH)	1	0	2800	2909.3	2925	26.5		
10		1	0	2810	2922.9	2940			
10		1	0	2820	2936.5	2955			
10		1	0	2830	2950.1	2970			
10		1	0	2840	2963.7	2985			
10	5G NR-SSB PDSCH (PDSCH)	1	0	2850	2977.3	2995	26.5		
10		1	0	2860	2990.9	3005			
10		1	0	2870	3004.5	3020			
10		1	0	2880	3018.1	3035			
10		1	0	2890	3031.7	3050			
10	5G NR-SSB PDSCH (PDSCH)	1	0	2900	3045.3	3065	26.5		
10		1	0	2910	3058.9	3080			
10		1	0	2920	3072.5	3095			
10		1	0	2930	3086.1	3110			
10		1	0	2940	3099.7	3125			
10	5G NR-SSB PDSCH (PDSCH)	1	0	2950	3113.3	3135	26.5		
10		1	0	2960	3126.9	3150			
10		1	0	2970	3140.5	3165			
10		1	0	2980	3154.1	3180			
10		1	0	2990	3167.7	3195			
10	5G NR-SSB PDSCH (PDSCH)	1	0	3000	3181.3	3205	26.5		
10		1	0	3010	3194.9	3220			
10		1	0	3020	3208.5	3235			
10		1	0	3030	3222.1	3250			
10		1	0	3040	3235.7	3265			
10	5G NR-SSB PDSCH (PDSCH)	1	0	3050	3249.3	3275	26.5		
10		1	0	3060	3262.9	3290			
10		1	0	3070	3276.5	3305			
10		1	0	3080	3290.1	3320			
10		1	0	3090	3303.7	3335			
10	5G NR-SSB PDSCH (PDSCH)	1	0	3100	3317.3	3355	26.5		
10		1	0	3110	3330.9	3370			
10		1	0	3120	3344.5	3385			
10		1	0	3130	3358.1	3400			
10		1	0	3140	3371.7	3415			
10	5G NR-SSB PDSCH (PDSCH)	1	0	3150</					

EN-DC 2A-N66									
BSF (MHz)	Modulation	RF Size	RF Offset	LC Channel	Modulation	RF Size	RF Offset	Time slot (ms)	Time slot (ms)
Frequency Range 1									
15	EN-DC PDCP layer	1	1	2131	2131	2140	2140	23	
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15	EN-DC RLC layer	10	1	2130	2130	2137	2137	26	
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15	EN-DC MAC layer	10	1	2130	2130	2137	2137	28	
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15	EN-DC PHY layer	10	1	2130	2130	2137	2137	29	
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15	EN-DC RRC layer	10	1	2130	2130	2137	2137	30	
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15	EN-DC NAS layer	10	1	2130	2130	2137	2137	31	
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15	EN-DC Security layer	10	1	2130	2130	2137	2137	32	
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15		10	1	2130	2130	2137	2137		
15	EN-DC Core network layer								33
Frequency Range 2									
1	EN-DC PDCP layer	1	1	2031	2031	2038	2038	24	
1		1	1	2031	2031	2038	2038		
1		1	1	2031	2031	2038	2038		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC RLC layer	10	1	2030	2030	2037	2037	27	
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC MAC layer	10	1	2030	2030	2037	2037	29	
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC PHY layer	10	1	2030	2030	2037	2037	30	
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC RRC layer	10	1	2030	2030	2037	2037	31	
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC NAS layer	10	1	2030	2030	2037	2037	32	
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC Security layer	10	1	2030	2030	2037	2037	33	
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC Core network layer								34
Frequency Range 3									
1	EN-DC PDCP layer	1	1	2031	2031	2038	2038	25	
1		1	1	2031	2031	2038	2038		
1		1	1	2031	2031	2038	2038		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC RLC layer	10	1	2030	2030	2037	2037	28	
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC MAC layer	10	1	2030	2030	2037	2037	31	
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC PHY layer	10	1	2030	2030	2037	2037	32	
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC RRC layer	10	1	2030	2030	2037	2037	33	
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC NAS layer	10	1	2030	2030	2037	2037	34	
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC Security layer	10	1	2030	2030	2037	2037	35	
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1		10	1	2030	2030	2037	2037		
1	EN-DC Core network layer								36

[illegible]

EN-DC 5A-N66									
5G (MHz)	Modulation	5G Size	5G Offset	Low Channel	Mobile Channel	High Channel	Transmit (dBm)		
Channel									
Frequency (MHz)									
1	1	1	1	2344	23 57	23 73	24		
1	1	1	1	2344	23 52	23 63			
1	1	1	1	2344	23 58	23 68			
1	1	1	1	2343	23 51	23 58			
1	1	1	1	2343	23 56	23 66			
1	1	1	1	2343	23 57	23 63			
1	1	1	1	2343	23 52	23 53			
1	1	1	1	2343	23 53	23 59			
1	1	1	1	2343	23 54	23 60			
1	1	1	1	2343	23 55	23 61			
1	1	1	1	2343	23 56	23 62			
1	1	1	1	2343	23 57	23 63			
1	1	1	1	2343	23 58	23 64			
1	1	1	1	2343	23 59	23 65			
1	1	1	1	2343	23 60	23 66			
1	1	1	1	2343	23 61	23 67			
1	1	1	1	2343	23 62	23 68			
1	1	1	1	2343	23 63	23 69			
1	1	1	1	2343	23 64	23 70			
1	1	1	1	2343	23 65	23 71			
1	1	1	1	2343	23 66	23 72			
1	1	1	1	2343	23 67	23 73			
1	1	1	1	2343	23 68	23 74			
1	1	1	1	2343	23 69	23 75			
1	1	1	1	2343	23 70	23 76			
1	1	1	1	2343	23 71	23 77			
1	1	1	1	2343	23 72	23 78			
1	1	1	1	2343	23 73	23 79			
1	1	1	1	2343	23 74	23 80			
1	1	1	1	2343	23 75	23 81			
1	1	1	1	2343	23 76	23 82			
1	1	1	1	2343	23 77	23 83			
1	1	1	1	2343	23 78	23 84			
1	1	1	1	2343	23 79	23 85			
1	1	1	1	2343	23 80	23 86			
1	1	1	1	2343	23 81	23 87			
1	1	1	1	2343	23 82	23 88			
1	1	1	1	2343	23 83	23 89			
1	1	1	1	2343	23 84	23 90			
1	1	1	1	2343	23 85	23 91			
1	1	1	1	2343	23 86	23 92			
1	1	1	1	2343	23 87	23 93			
1	1	1	1	2343	23 88	23 94			
1	1	1	1	2343	23 89	23 95			
1	1	1	1	2343	23 90	23 96			
1	1	1	1	2343	23 91	23 97			
1	1	1	1	2343	23 92	23 98			
1	1	1	1	2343	23 93	23 99			
1	1	1	1	2343	23 94	24 00			
1	1	1	1	2343	23 95	24 01			
1	1	1	1	2343	23 96	24 02			
1	1	1	1	2343	23 97	24 03			
1	1	1	1	2343	23 98	24 04			
1	1	1	1	2343	23 99	24 05			
1	1	1	1	2343	24 00	24 06			
1	1	1	1	2343	24 01	24 07			
1	1	1	1	2343	24 02	24 08			
1	1	1	1	2343					

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