

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	22.04	22.24	22.54						
20	16QAM	50	24	22.62	22.77	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	22.74	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	22.27	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	23.89	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	22.61	22.52						
1.4	16QAM	1	5	22.26	22.52	22.64	23.5					
1.4	16QAM	3	0	22.79	22.36	22.85						
1.4	16QAM	3	1	22.50	22.75	22.48						
1.4	16QAM	3	3	22.60	22.79	22.62	23.5					
1.4	16QAM	6	0	22.61	22.61	22.50						
1.4	64QAM	1	0	22.78	22.34	22.61						
1.4	64QAM	1	3	22.26	22.62	22.62						
1.4	64QAM	1	5	22.62	22.86	22.40						
1.4	64QAM	3	0	22.46	22.49	22.94	23.5					
1.4	64QAM	3	1	22.52	22.62	22.48						
1.4	64QAM	3	3	22.44	22.72	22.53						
1.4	64QAM	6	0	22.51	22.62	22.62	23.5					

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	22.20	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	20525	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	20525	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	22.26	22.69	22.46	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	6	0	21.45	21.43	21.44	22.5		
3	QPSK	6	4	21.44	21.42	21.42			
3	QPSK	6	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	20.56			
3	16QAM	1	8	20.57	20.48	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	21.41	21.56			
1.4	16QAM	1	3	21.52	21.50	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	20.83	20.61	23.5		
1.4	16QAM	1	3	20.50	20.67	20.58			
1.4	16QAM	1	5	20.76	20.76	20.46			
1.4	64QAM	3	0	20.57	20.66	20.56	23.5		
1.4	64QAM	3	1	20.48	20.48	20.61			
1.4	64QAM	3	3	20.67	20.56	20.56			
1.4	64QAM	6	0	20.58	20.50	20.76	23.5		

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			24
10	QPSK	25	12	23.15			
10	QPSK	25	25	23.17			
10	QPSK	50	0	23.16			
10	16QAM	1	0	23.26			24
10	16QAM	1	25	23.50			
10	16QAM	1	49	23.47			
10	16QAM	25	0	22.84			
10	16QAM	25	12	22.94			23
10	16QAM	25	25	22.54			
10	16QAM	50	0	22.82			
10	64QAM	1	0	22.51			
10	64QAM	1	25	22.62			23
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	
5	QPSK	12	7	23.18	23.04	23.17	24
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	
5	16QAM	1	12	23.21	23.56	23.50	24
5	16QAM	1	24	23.43	23.59	23.57	
5	16QAM	12	0	22.56	22.07	22.13	
5	16QAM	12	7	22.61	22.05	22.25	
5	16QAM	12	13	22.54	22.27	22.16	23
5	16QAM	25	0	22.52	22.45	22.15	
5	64QAM	1	0	22.55	22.61	22.61	
5	64QAM	1	12	22.45	22.45	22.29	
5	64QAM	1	24	22.61	22.28	22.34	23
5	64QAM	12	0	22.45	22.34	22.48	
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	23

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

Band 17 (Ant 2)								
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				23760	23790	23800	24.5	
Frequency (MHz)				706	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		
10	QPSK	25	12	22.65	23.05	22.97	23.5	
10	QPSK	25	25	22.99	22.90	22.98		
10	QPSK	50	0	22.96	22.99	22.96		
10	16QAM	1	0	23.12	23.16	23.15		
10	16QAM	1	25	23.10	23.10	22.94	23.5	
10	16QAM	1	49	23.18	22.90	23.25		
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	22.86	22.86	23.5	
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		
10	64QAM	1	49	22.43	22.91	22.26	23	
10	64QAM	25	0	22.36	22.25	22.42		
10	64QAM	25	12	22.07	22.27	22.34		
10	64QAM	25	25	22.12	22.36	22.52		
10	64QAM	50	0	22.26	22.19	22.34	23	
Channel				706.5	710	713.5		
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		
5	QPSK	12	7	23.04	22.94	22.97	23.5	
5	QPSK	12	13	22.97	22.98	22.95		
5	QPSK	25	0	23.05	22.99	22.92		
5	16QAM	1	0	23.04	23.05	23.05		
5	16QAM	1	12	22.98	23.06	23.14	23.5	
5	16QAM	1	24	22.92	23.15	23.12		
5	16QAM	12	0	22.86	22.83	22.89		
5	16QAM	12	7	22.99	22.84	22.99		
5	16QAM	12	13	22.84	22.99	22.85	23.5	
5	16QAM	25	0	22.89	22.87	22.87		
5	64QAM	1	0	22.54	22.11	22.35		
5	64QAM	1	12	22.15	22.10	22.26		
5	64QAM	1	24	22.24	22.34	22.24	23	
5	64QAM	12	0	22.24	22.26	22.73		
5	64QAM	12	7	22.23	22.34	22.34		
5	64QAM	12	13	22.24	22.53	22.25		
5	64QAM	25	0	22.34	22.45	22.61	23	

Band 17 (Ant 0)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Time-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.92	23.78	23.77	24.5
10	QPSK	1	25	23.75	23.70	23.65	
10	QPSK	1	49	23.80	23.83	23.82	
10	QPSK	25	0	22.93	22.84	22.74	
10	QPSK	25	12	22.74	22.85	22.88	23.5
10	QPSK	25	25	22.78	22.89	22.86	
10	QPSK	50	0	22.69	22.79	22.89	
10	16QAM	1	0	22.78	22.89	23.10	
10	16QAM	1	25	22.94	23.10	22.86	23.5
10	16QAM	1	49	23.01	22.82	23.05	
10	16QAM	25	0	22.83	22.58	22.55	
10	16QAM	25	12	22.96	22.58	22.64	
10	16QAM	25	25	22.59	22.61	22.72	23.5
10	16QAM	50	0	22.78	22.64	22.52	
10	64QAM	1	0	21.54	21.55	21.62	
10	64QAM	1	25	21.78	21.62	21.55	
10	64QAM	1	49	21.53	21.63	21.42	22.5
10	64QAM	25	0	21.72	21.64	21.83	
10	64QAM	25	12	21.94	21.56	21.82	
10	64QAM	25	25	21.66	21.57	21.52	
10	64QAM	50	0	21.79	21.68	21.81	22.5
Channel				709.5	710	710.5	
Frequency (MHz)				709.5	710	710.5	Time-up limit (dBm)
5	QPSK	1	0	23.64	23.76	23.69	
5	QPSK	1	12	23.83	23.69	23.83	
5	QPSK	1	24	23.74	23.70	23.78	
5	QPSK	12	0	22.81	22.82	22.90	
5	QPSK	12	7	22.83	22.81	22.89	23.5
5	QPSK	12	13	22.78	22.78	22.78	
5	QPSK	25	0	22.88	22.81	22.82	
5	16QAM	1	0	23.00	22.76	23.01	
5	16QAM	1	12	23.03	22.86	23.09	23.5
5	16QAM	1	24	22.88	23.09	23.04	
5	16QAM	12	0	22.83	22.55	22.55	
5	16QAM	12	7	22.87	22.47	22.48	
5	16QAM	12	13	22.86	22.61	22.88	23.5
5	16QAM	25	0	22.96	22.64	22.34	
5	64QAM	1	0	21.46	21.54	21.69	
5	64QAM	1	12	21.51	21.66	21.62	
5	64QAM	1	24	21.64	21.46	21.58	22.5
5	64QAM	12	0	21.80	21.53	21.66	
5	64QAM	12	7	21.82	21.54	21.55	
5	64QAM	12	13	21.56	21.74	21.55	
5	64QAM	25	0	21.66	21.76	21.68	22.5

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	23					
20	ISDAM	1	49	22.34	22.38	22.29						
20	ISDAM	1	99	22.24	22.16	22.12						
20	ISDAM	50	0	22.33	22.28	22.29	23					
20	ISDAM	50	24	22.15	22.24	22.24						
20	ISDAM	50	50	22.24	22.15	22.64						
20	ISDAM	100	0	22.25	22.24	22.44	23					
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	23.24	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	23.86	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	23.35	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	11	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	24.13	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				26140	26305	26590	
Frequency (MHz)				1860	1882.5	1905	24.5
20	QPSK	1	0	23.47	23.50	23.40	
20	QPSK	1	49	23.55	23.51	23.39	
20	QPSK	1	99	23.38	23.40	23.26	
20	QPSK	50	0	22.55	22.61	22.42	
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	
20	ISDAM	1	0	22.47	22.95	22.59	
20	ISDAM	1	49	22.45	22.59	22.49	
20	ISDAM	1	99	22.50	22.57	22.52	
20	ISDAM	50	0	22.62	22.44	22.62	
20	ISDAM	50	24	22.34	22.62	22.37	
20	ISDAM	50	50	22.42	22.14	22.65	
20	ISDAM	100	0	22.48	22.46	22.50	
20	ISDAM	1	0	22.45	22.98	22.42	
20	ISDAM	1	49	22.34	22.24	22.54	
20	ISDAM	1	99	22.75	22.56	22.64	
20	ISDAM	50	0	21.56	21.38	21.35	
20	ISDAM	50	24	21.62	21.48	21.61	
20	ISDAM	50	50	21.44	21.40	21.52	
20	ISDAM	100	0	21.63	21.55	21.55	
Channel				16115	16305	16615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	23.43	23.49	23.47	
15	QPSK	1	37	23.54	23.56	23.33	
15	QPSK	1	74	23.59	23.42	23.51	
15	QPSK	36	0	22.51	22.46	22.47	
15	QPSK	36	20	22.66	22.54	22.62	
15	QPSK	36	36	22.58	22.46	22.62	
15	QPSK	75	0	22.53	22.52	22.61	
15	ISDAM	1	0	22.80	22.70	22.89	
15	ISDAM	1	37	22.75	22.76	22.75	
15	ISDAM	1	74	22.50	22.59	22.59	
15	ISDAM	36	0	22.45	22.35	22.45	
15	ISDAM	36	20	22.25	22.42	22.34	
15	ISDAM	36	36	22.35	22.25	22.21	
15	ISDAM	75	0	22.34	22.25	22.21	
15	ISDAM	1	0	22.26	22.24	22.45	
15	ISDAM	1	37	22.33	22.52	22.34	
15	ISDAM	1	74	22.15	22.35	22.38	
15	ISDAM	36	0	21.48	21.44	21.57	
15	ISDAM	36	20	21.64	21.57	21.60	
15	ISDAM	36	36	21.59	21.61	21.52	
15	ISDAM	75	0	21.59	21.50	21.53	
Channel				20099	20305	20599	Tune-up limit (dBm)
Frequency (MHz)				1859	1882.5	1910	
10	QPSK	1	0	23.75	23.59	23.61	
10	QPSK	1	25	23.68	23.57	23.65	
10	QPSK	1	49	23.66	23.33	23.50	
10	QPSK	25	0	22.78	22.75	22.69	
10	QPSK	25	12	22.71	22.74	22.72	
10	QPSK	25	25	22.70	22.70	22.64	
10	QPSK	50	0	22.71	22.72	22.66	
10	ISDAM	1	0	22.56	22.65	22.60	
10	ISDAM	1	25	22.61	22.61	22.81	
10	ISDAM	1	49	22.89	22.87	22.53	
10	ISDAM	25	0	22.15	22.27	22.24	
10	ISDAM	25	12	22.35	22.28	22.37	
10	ISDAM	25	25	22.27	22.38	22.42	
10	ISDAM	50	0	22.34	22.34	22.34	
10	ISDAM	1	0	22.38	22.15	22.27	
10	ISDAM	1	49	22.28	22.34	22.42	
10	ISDAM	1	49	22.21	22.34	22.35	
10	ISDAM	25	0	21.77	21.71	21.66	
10	ISDAM	25	12	21.74	21.73	21.63	
10	ISDAM	25	25	21.67	21.71	21.58	
10	ISDAM	50	0	21.68	21.71	21.71	
Channel				19155	1922.5	1912.5	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1912.5	
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	
5	QPSK	12	12	22.72	22.72	22.67	
5	QPSK	12	13	22.72	22.74	22.70	
5	QPSK	25	0	22.75	22.68	22.67	
5	ISDAM	1	0	22.99	22.91	22.85	
5	ISDAM	1	12	22.72	22.74	22.88	
5	ISDAM	1	24	23.01	22.96	22.65	
5	ISDAM	12	0	22.64	22.64	22.34	
5	ISDAM	12	7	22.34	22.16	22.15	
5	ISDAM	12	13	22.42	22.37	22.34	
5	ISDAM	25	0	22.34	22.39	22.34	
5	ISDAM	1	0	22.24	22.24	22.47	
5	ISDAM	1	12	22.16	22.19	22.34	
5	ISDAM	1	24	22.14	22.14	22.19	
5	ISDAM	12	0	21.74	21.71	21.73	
5	ISDAM	12	7	21.69	21.76	21.73	
5	ISDAM	12	13	21.60	21.56	21.79	
5	ISDAM	25	0	21.71	21.71	21.69	
Channel				16017	16305	16693	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1913.5	
3	QPSK	1	0	23.50	23.55	23.60	
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	
3	QPSK	8	4	22.74	22.71	22.74	
3	QPSK	8	7	22.71	22.71	22.68	
3	QPSK	15	0	22.71	22.71	22.73	
3	ISDAM	1	0	22.87	22.84	22.89	
3	ISDAM	1	8	22.62	22.12	22.95	
3	ISDAM	1	14	22.94	22.36	22.83	
3	ISDAM	8	0	22.16	22.16	22.25	
3	ISDAM	8	4	22.47	22.34	22.37	
3	ISDAM	8	7	22.35	22.54	22.37	
3	ISDAM	15	0	22.34	22.34	22.34	
3	ISDAM	1	0	22.26	22.31	22.26	
3	ISDAM	1	8	22.54	22.14	22.21	
3	ISDAM	1	14	22.16	22.16	22.23	
3	ISDAM	8	0	21.73	21.79	21.63	
3	ISDAM	8	4	21.69	21.80	21.72	
3	ISDAM	8	7	21.74	21.73	21.76	
3	ISDAM	15	0	21.78	21.69	21.72	
Channel				26047	26305	26693	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1914.3	
1.4	QPSK	1	0	23.40	23.45	23.43	
1.4	QPSK	1	3	23.64	23.60	23.68	
1.4	QPSK	1	5	23.60	23.55	23.58	
1.4	QPSK	3	0	22.97	22.62	22.97	
1.4	QPSK	3	1	23.60	23.56	23.69	
1.4	QPSK	3	3	23.69	23.51	23.57	
1.4	QPSK	6	0	22.67	22.67	22.67	
1.4	ISDAM	1	0	22.83	22.87	23.03	
1.4	ISDAM	1	3	22.79	22.89	23.00	
1.4	ISDAM	1	5	22.72	22.68	23.01	
1.4	ISDAM	3	0	22.63	22.69	22.54	
1.4	ISDAM	3	1	22.78	22.81	22.65	
1.4	ISDAM	3	3	22.74	22.74	22.84	
1.4	ISDAM	6	0	22.45	22.61	22.53	
1.4	ISDAM	1	0	22.18	22.42	22.55	
1.4	ISDAM	1	3	22.26	22.31	22.24	
1.4	ISDAM	1	5	22.38	22.25	22.32	
1.4	ISDAM	3	0	22.26	22.40	22.29	
1.4	ISDAM	3	1	22.25	22.50	22.71	
1.4	ISDAM	3	3	22.11	22.61	22.49	
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	
20	QPSK	1	0	24.06	24.02	24.14	24.00	23.92	25
20	QPSK	1	49	24.07	24.04	23.90	23.85	23.93	
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	24
20	QPSK	50	50	23.23	23.21	23.21	23.11	23.11	
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	24
20	16QAM	1	99	23.31	23.38	23.32	23.35	23.17	
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	23
20	16QAM	100	0	22.59	22.36	22.23	22.16	22.35	
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	23
20	64QAM	50	0	22.35	22.33	22.19	22.35	22.13	
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	
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	
15	QPSK	1	37	24.01	24.10	24.07	23.99	23.92	25
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	
15	QPSK	36	39	23.23	23.31	23.18	23.09	23.04	24
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	
15	16QAM	1	74	23.33	23.38	23.37	23.19	23.22	24
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	
15	16QAM	75	0	22.36	22.40	22.31	22.13	22.17	23
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	
15	64QAM	36	0	22.33	22.30	22.26	22.18	22.18	23
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	
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.43	24.26	24.44	24.06	24.02	25
10	QPSK	1	25	24.33	24.16	24.29	24.06	24.08	
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	
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
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	
5	QPSK	12	13	23.38	23.51	23.41	23.25	23.24	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	
5	16QAM	1	24	23.61	23.64	23.64	23.36	23.42	24
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	
5	16QAM	25	0	22.45	22.47	22.47	22.37	22.39	23
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	
5	64QAM	12	0	22.42	22.45	22.40	22.28	22.30	23
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	

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	25.56	
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)									
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Time-up limit (dBm)		
Channel							25	24	23
Frequency (MHz)									
20	QPSK	1	0	24.06	24.25	24.06			
20	QPSK	1	8	24.22	24.11	24.11			
20	QPSK	1	96	24.17	24.01	24.19			
20	QPSK	50	0	23.15	23.38	23.20			
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			
20	16QAM	1	0	23.41	23.40	23.57			
20	16QAM	1	49	23.55	23.21	23.22			
20	16QAM	1	99	23.16	23.20	23.35			
20	16QAM	50	0	22.30	22.15	22.15			
20	16QAM	50	24	22.25	22.20	22.16			
20	16QAM	50	50	22.36	22.40	22.37			
20	16QAM	100	0	22.32	22.29	22.14			
20	64QAM	1	0	22.52	22.54	22.15			
20	64QAM	1	49	22.39	22.25	22.32			
20	64QAM	1	99	22.28	22.23	22.11			
20	64QAM	50	0	22.20	22.19	22.15			
20	64QAM	50	24	22.20	22.23	22.19			
20	64QAM	50	50	22.41	22.26	22.28			
20	64QAM	100	0	22.27	22.16	22.23			
Channel							25	24	23
Frequency (MHz)									
15	QPSK	1	0	24.06	24.18	24.04			
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			
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			
15	16QAM	1	0	23.39	23.38	23.55			
15	16QAM	1	37	23.53	23.19	23.20			
15	16QAM	1	74	23.14	23.18	23.33			
15	16QAM	36	0	22.28	22.13	22.13			
15	16QAM	36	20	22.23	22.18	22.14			
15	16QAM	36	39	22.24	22.26	22.32			
15	16QAM	75	0	22.30	22.27	22.12			
15	16QAM	75	0	22.32	22.27	22.12			
15	64QAM	1	0	22.25	22.26	22.13			
15	64QAM	1	37	22.37	22.42	22.28			
15	64QAM	1	74	22.36	22.11	22.18			
15	64QAM	36	0	22.24	22.17	22.12			
15	64QAM	36	39	22.29	22.24	22.26			
15	64QAM	75	0	22.25	22.14	22.21			
Channel							25	24	23
Frequency (MHz)									
10	QPSK	1	0	24.04	24.16	24.02			
10	QPSK	1	25	24.18	24.21	24.07			
10	QPSK	1	49	24.13	23.97	24.15			
10	QPSK	25	0	23.11	23.10	23.16			
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			
10	16QAM	1	0	23.37	23.36	23.53			
10	16QAM	1	25	23.51	23.17	23.18			
10	16QAM	1	49	23.12	23.16	23.31			
10	16QAM	25	0	22.26	22.11	22.11			
10	16QAM	25	12	22.21	22.16	22.12			
10	16QAM	25	25	22.32	22.36	22.33			
10	16QAM	50	0	22.28	22.25	22.10			
10	64QAM	1	0	22.24	22.45	22.11			
10	64QAM	1	25	22.21	22.38	22.26			
10	64QAM	1	49	22.34	22.29	22.27			
10	64QAM	25	0	22.17	22.15	22.11			
10	64QAM	25	12	22.16	22.19	22.15			
10	64QAM	25	25	22.37	22.22	22.24			
10	64QAM	50	0	22.23	22.12	22.19			
Channel							25	24	23
Frequency (MHz)									
5	QPSK	1	0	24.02	24.14	24.00			
5	QPSK	1	12	24.16	24.19	24.05			
5	QPSK	1	24	24.11	23.95	24.13			
5	QPSK	12	0	23.09	23.08	23.14			
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			
5	16QAM	1	0	23.35	23.34	23.51			
5	16QAM	1	12	23.49	23.15	23.16			
5	16QAM	1	24	23.10	23.14	23.29			
5	16QAM	12	0	22.24	22.09	22.09			
5	16QAM	12	7	22.19	22.14	22.10			
5	16QAM	12	13	22.30	22.34	22.31			
5	16QAM	25	0	22.26	22.22	22.08			
5	64QAM	1	0	22.46	22.25	22.26			
5	64QAM	1	12	22.33	22.36	22.24			
5	64QAM	1	24	22.24	22.17	22.34			
5	64QAM	12	0	22.15	22.13	22.09			
5	64QAM	12	7	22.16	22.17	22.13			
5	64QAM	12	13	22.35	22.20	22.22			
5	64QAM	25	0	22.21	22.12	22.17			
Channel							25	24	23
Frequency (MHz)									
3	QPSK	1	0	24.00	24.12	23.88			
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			
3	QPSK	8	7	23.23	23.22	23.18			
3	QPSK	8	15	23.34	23.26	23.34			
3	QPSK	15	0	23.15	23.12	23.18			
3	16QAM	1	0	23.39	23.38	23.55			
3	16QAM	1	8	23.50	23.19	23.20			
3	16QAM	1	14	23.14	23.18	23.33			
3	16QAM	8	0	22.28	22.13	22.13			
3	16QAM	8	4	22.34	22.16	22.14			
3	16QAM	8	7	22.34	22.28	22.35			
3	16QAM	15	0	22.30	22.27	22.12			
3	64QAM	1	0	22.43	22.54	22.13			
3	64QAM	1	8	22.27	22.46	22.28			
3	64QAM	1	11	22.23	22.17	22.29			
3	64QAM	8	0	22.15	22.17	22.13			
3	64QAM	8	4	22.20	22.21	22.17			
3	64QAM	8	7	22.26	22.24	22.26			
3	64QAM	15	0	22.25	22.14	22.21			
Channel							25	24	23
Frequency (MHz)									
1.4	QPSK	1	0	24.02	24.14	24.00			
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			
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			
1.4	16QAM	1	0	23.33	23.32	23.49			
1.4	16QAM	1	3	23.47	23.13	23.14			
1.4	16QAM	1	5	23.08	23.12	23.27			
1.4	16QAM	3	0	22.22	22.07	22.07			
1.4	16QAM	3	1	22.17	22.12	22.08			
1.4	16QAM	3	3	22.33	22.32	22.29			
1.4	16QAM	6	0	22.24	22.21	22.06			
1.4	64QAM	1	0	22.44	22.42	22.27			
1.4	64QAM	1	3	22.31	22.31	22.22			
1.4	64QAM	1	5	22.20	22.35	22.24			
1.4	64QAM	3	0	22.13	22.11	22.07			
1.4	64QAM	3	1	22.14	22.15	22.11			
1.4	64QAM	3	3	22.33	22.18	22.20			
1.4	64QAM	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	20.01	17.65	17.70	21	20	20
20	QPSK	1	8	20.06	20.12	20.06			
20	QPSK	1	96	19.88	19.89	20.05			
20	QPSK	50	0	19.02	19.15	19.07	20	20	20
20	QPSK	50	24	19.12	19.11	19.07			
20	QPSK	50	50	19.04	19.05	19.13			
20	QPSK	100	0	19.04	19.01	19.07	20	20	20
20	HQAM	1	0	19.04	19.04	19.04			
20	HQAM	1	49	19.18	19.05	19.05			
20	HQAM	1	99	19.00	19.04	19.19	24	24	24
20	HQAM	50	0	19.14	19.09	19.19			
20	HQAM	50	24	19.08	19.04	19.12			
20	HQAM	50	50	19.20	19.24	19.24	24	24	24
20	HQAM	100	0	19.16	19.14	19.22			
20	HQAM	1	0	19.37	19.43	19.00			
20	HQAM	1	49	19.24	19.27	19.15	24	24	24
20	HQAM	1	99	19.13	19.86	19.86			
20	HQAM	50	0	18.06	18.04	18.00			
20	HQAM	50	24	18.07	18.08	18.04	23	23	23
20	HQAM	50	50	18.26	18.11	18.12			
20	HQAM	100	0	18.12	18.01	18.08			
Channel							Time-up limit (dBm)		
Frequency (MHz)									
15	QPSK	1	0	19.94	13.007	13.059	21	21	21
15	QPSK	1	37	20.08	20.11	19.97			
15	QPSK	1	74	20.03	19.97	20.05			
15	QPSK	36	0	19.00	19.00	19.00	20	20	20
15	QPSK	36	39	19.22	19.14	19.12			
15	QPSK	75	0	19.03	19.00	19.06			
15	HQAM	1	0	19.27	19.26	19.43	20	20	20
15	HQAM	1	37	19.17	19.17	19.09			
15	HQAM	1	74	19.02	19.06	19.21			
15	HQAM	36	0	19.16	19.01	19.01	24	24	24
15	HQAM	36	20	19.11	19.06	19.02			
15	HQAM	75	0	19.18	19.15	19.23			
15	HQAM	1	0	19.24	19.25	19.00	24	24	24
15	HQAM	1	37	19.25	19.28	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	75	0	18.27	18.12	18.14			
Channel							Time-up limit (dBm)		
Frequency (MHz)									
10	QPSK	1	0	19.90	13.022	13.026	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	18.96	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	18.96	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	24	24	24
10	HQAM	1	49	19.10	19.90	19.93			
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	18.02	18.00			
Channel							Time-up limit (dBm)		
Frequency (MHz)									
5	QPSK	1	0	19.92	13.014	13.047	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	18.96	18.98	19.04	20	20	20
5	QPSK	12	7	19.00	19.01	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	19.94	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	19.05			
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	19.95	13.015	13.048	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	19.95	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	19.11	19.11	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	19.97	13.022	13.043	21	21	21
1.4	QPSK	1	8	20.09	20.12	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	19.19			
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	19.08			
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	
		CH 36	5180	6.25	7.0	9.5	98.35
	802.11ac-VHT20 MCS0	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	
		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	
		CH 52	5260	6.28	7.0	9.5	98.35
	802.11ac-VHT20 MCS0	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	
		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	98.35
	802.11ac-VHT20 MCS0	CH 100	5500	6.15	7.0	9.5	
		CH 120	5600	6.17	7.0	9.5	
		CH 144	5720	6.18	7.0	9.5	96.30
	802.11ac-VHT40 MCS0	CH 102	5510	6.73	7.5	9.5	
		CH 126	5630	6.77	7.5	9.5	
		CH 142	5710	6.78	7.5	9.5	92.07
	802.11ac-VHT80 MCS0	CH 106	5530	6.43	7.0	9.5	
		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	
		CH 36	5180	13.11	14.0	14.5	98.35
	802.11ac-VHT20 MCS0	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	
		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	
		CH 52	5260	13.09	14.0	14.5	98.35
	802.11ac-VHT20 MCS0	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	
		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	98.35
	802.11ac-VHT20 MCS0	CH 100	5500	12.08	13.0	14.5	
		CH 116	5580	11.54	12.0	14.5	
		CH 144	5720	11.44	12.0	14.5	96.30
	802.11ac-VHT40 MCS0	CH 102	5510	12.51	13.0	14.5	
		CH 126	5630	11.97	12.5	14.5	
		CH 142	5710	11.88	12.5	14.5	92.07
	802.11ac-VHT80 MCS0	CH 106	5530	11.93	12.5	14.5	
		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					

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

EN-DC_13A-N2									
5G BWP	Modulation	5G Sub	5G Res	Low Channel	Media Channel	High Channel	Transmitting rate (Mbps)		
Channel Frequency Range									
15	5G-DC-DCM FDD-BWP	1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15	5G-DC-DCM OFDM	1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15	5G-DC-DCM 2500M	1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15	5G-DC-DCM 2500M	1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15	5G-DC-DCM 2500M	1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15	5G-DC-DCM 2500M	1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15	5G-DC-DCM 2500M	1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15	5G-DC-DCM 2500M	1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15	5G-DC-DCM 2500M	1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15	5G-DC-DCM 2500M	1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15	5G-DC-DCM 2500M	1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15		1	1	1	1	1	2500	2500	2500
15									

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	24.29			
2	64-QAM	1	1	24.78	25.74	24.68			
3	256-QAM	1	1	24.88	26.13	24.80			
4	QPSK	1	1	25.17	25.52	25.07	24		
5	16-QAM	1	1	25.27	25.74	25.27			
6	64-QAM	1	1	25.38	26.48	25.38			
7	256-QAM	1	1	25.47	26.88	25.47			
8	QPSK	1	1	25.77	26.12	25.77	23		
9	16-QAM	1	1	25.87	26.48	25.87			
10	64-QAM	1	1	25.97	27.23	25.97			
11	256-QAM	1	1	26.07	27.63	26.07			
12	QPSK	1	1	26.37	26.72	26.37	22		
13	16-QAM	1	1	26.47	27.08	26.47			
14	64-QAM	1	1	26.57	27.83	26.57			
15	256-QAM	1	1	26.67	28.23	26.67			
16	QPSK	1	1	26.97	27.42	26.97	21		
17	16-QAM	1	1	27.07	27.78	27.07			
18	64-QAM	1	1	27.17	28.53	27.17			
19	256-QAM	1	1	27.27	28.93	27.27			
20	QPSK	1	1	27.57	27.92	27.57	20		
21	16-QAM	1	1	27.67	28.28	27.67			
22	64-QAM	1	1	27.77	29.03	27.77			
23	256-QAM	1	1	27.87	29.43	27.87			
24	QPSK	1	1	28.17	28.32	28.17	19		
25	16-QAM	1	1	28.27	28.68	28.27			
26	64-QAM	1	1	28.37	29.43	28.37			
27	256-QAM	1	1	28.47	29.83	28.47			
Channel 2									
Frequency offset									
0	QPSK	1	1	23.78	23.93	23.84	25		
1	16-QAM	1	1	23.88	24.11	23.92			
2	64-QAM	1	1	23.98	24.43	24.00			
3	256-QAM	1	1	24.08	24.75	24.10			
4	QPSK	1	1	24.37	24.43	24.40	24		
5	16-QAM	1	1	24.47	24.75	24.47			
6	64-QAM	1	1	24.57	25.48	24.57			
7	256-QAM	1	1	24.67	25.88	24.67			
8	QPSK	1	1	24.97	24.78	24.93	23		
9	16-QAM	1	1	25.07	25.14	25.07			
10	64-QAM	1	1	25.17	25.88	25.17			
11	256-QAM	1	1	25.27	26.28	25.27			
12	QPSK	1	1	25.57	25.22	25.57	22		
13	16-QAM	1	1	25.67	25.58	25.67			
14	64-QAM	1	1	25.77	26.32	25.77			
15	256-QAM	1	1	25.87	26.72	25.87			
16	QPSK	1	1	26.17	25.72	26.17	21		
17	16-QAM	1	1	26.27	26.08	26.27			
18	64-QAM	1	1	26.37	26.82	26.37			
19	256-QAM	1	1	26.47	27.22	26.47			
20	QPSK	1	1	26.77	26.18	26.77	20		
21	16-QAM	1	1	26.87	26.54	26.87			
22	64-QAM	1	1	26.97	27.28	26.97			
23	256-QAM	1	1	27.07	27.68	27.07			
24	QPSK	1	1	27.37	26.62	27.37	19		
25	16-QAM	1	1	27.47	26.98	27.47			
26	64-QAM	1	1	27.57	27.72	27.57			
27	256-QAM	1	1	27.67	28.12	27.67			
28	QPSK	1	1	27.97	27.08	27.97	18		
29	16-QAM	1	1	28.07	27.44	28.07			
30	64-QAM	1	1	28.17	28.18	28.17			
31	256-QAM	1	1	28.27	28.58	28.27			
32	QPSK	1	1	28.57	27.52	28.57	17		
33	16-QAM	1	1	28.67	27.88	28.67			
34	64-QAM	1	1	28.77	28.62	28.77			
35	256-QAM	1	1	28.87	29.02	28.87			
36	QPSK	1	1	29.17	28.48	29.17	16		
37	16-QAM	1	1	29.27	28.84	29.27			
38	64-QAM	1	1	29.37	29.58	29.37			
39	256-QAM	1	1	29.47	29.98	29.47			
40	QPSK	1	1	29.77	28.92	29.77	15		
41	16-QAM	1	1	29.87	29.28	29.87			
42	64-QAM	1	1	29.97	30.02	29.97			
43	256-QAM	1	1	30.07	30.42	30.07			
44	QPSK	1	1	30.37	29.36	30.37	14		
45	16-QAM	1	1	30.47	29.72	30.47			
46	64-QAM	1	1	30.57	30.46	30.57			
47	256-QAM	1	1	30.67	30.86	30.67			
48	QPSK	1	1	30.97	29.80	30.97	13		
49	16-QAM	1	1	31.07	30.16	31.07			
50	64-QAM	1	1	31.17	30.90	31.17			
51	256-QAM	1	1	31.27	31.30	31.27			
52	QPSK	1	1	31.57	30.24	31.57	12		
53	16-QAM	1	1	31.67	30.60	31.67			
54	64-QAM	1	1	31.77	31.34	31.77			
55	256-QAM	1	1	31.87	31.74	31.87			
56	QPSK	1	1	32.17	30.68	32.17	11		
57	16-QAM	1	1	32.27	31.04	32.27			
58	64-QAM	1	1	32.37	31.78	32.37			
59	256-QAM	1	1	32.47	32.18	32.47			
60	QPSK	1	1	32.77	31.12	32.77	10		
61	16-QAM	1	1	32.87	31.48	32.87			
62	64-QAM	1	1	32.97	32.22	32.97			
63	256-QAM	1	1	33.07	32.62	33.07			
64	QPSK	1	1	33.37	31.56	33.37	9		
65	16-QAM	1	1	33.47	31.92	33.47			
66	64-QAM	1	1	33.57	32.66	33.57			
67	256-QAM	1	1	33.67	33.06	33.67			
68	QPSK	1	1	33.97	32.00	33.97	8		
69	16-QAM	1	1	34.07	32.36	34.07			
70	64-QAM	1	1	34.17	33.10	34.17			
71	256-QAM	1	1	34.27	33.50	34.27			
72	QPSK	1	1	34.57	32.44	34.57	7		
73	16-QAM	1	1	34.67	32.80	34.67			
74	64-QAM	1	1	34.77	33.54	34.77			
75	256-QAM	1	1	34.87	33.94	34.87			
76	QPSK	1	1	35.17	32.88	35.17	6		
77	16-QAM	1	1	35.27	33.24	35.27			
78	64-QAM	1	1	35.37	33.98	35.37			
79	256-QAM	1	1	35.47	34.38	35.47			
80	QPSK	1	1	35.77	33.32	35.77	5		
81	16-QAM	1	1	35.87	33.68	35.87			
82	64-QAM	1	1	35.97	34.42	35.97			
83	256-QAM	1	1	36.07	34.82	36.07			
84	QPSK	1	1	36.37	33.76	36.37	4		
85	16-QAM	1	1	36.47	34.12	36.47			
86	64-QAM	1	1	36.57	34.86	36.57			
87	256-QAM	1	1	36.67	35.26	36.67			
88	QPSK	1	1	36.97	34.00	36.97	3		
89	16-QAM	1	1	37.07	34.36	37.07			
90	64-QAM	1	1	37.17	35.10	37.17			
91	256-QAM	1	1	37.27	35.50	37.27			
92	QPSK	1	1	37.57	34.44	37.57	2		
93	16-QAM	1	1	37.67	34.80	37.67			
94	64-QAM	1	1	37.77	35.54	37.77			
95	256-QAM	1	1	37.87	35.94	37.87			
96	QPSK	1	1	38.17	34.88	38.17	1		
97	16-QAM	1	1	38.27	35.24	38.27			
98	64-QAM	1	1	38.37	35.98	38.37			
99	256-QAM	1	1	38.47	36.38	38.47			

[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	1	1	1	22.91	22.94	22.91			24	
2	1	1	1	22.92	22.93	22.92			24	
3	QF-OFDM	16	1	22.94	22.97	22.94			24	
4	QF-OFDM	16	1	22.97	22.99	22.94			24	
5	QF-OFDM	16	1	22.99	23.01	22.94			24	
6	QF-OFDM	16	1	23.01	23.03	22.97			24	
7	QF-OFDM	16	1	23.03	23.05	22.97			24	
8	QF-OFDM	16	1	23.05	23.07	22.97			24	
9	QF-OFDM	16	1	23.07	23.09	22.97			24	
10	QF-OFDM	16	1	23.09	23.11	22.97			24	
11	QF-OFDM	16	1	23.11	23.13	22.97			24	
12	QF-OFDM	16	1	23.13	23.15	22.97			24	
13	QF-OFDM	16	1	23.15	23.17	22.97			24	
14	QF-OFDM	16	1	23.17	23.19	22.97			24	
15	QF-OFDM	16	1	23.19	23.21	22.97			24	
16	QF-OFDM	16	1	23.21	23.23	22.97			24	
17	QF-OFDM	16	1	23.23	23.25	22.97			24	
18	QF-OFDM	16	1	23.25	23.27	22.97			24	
19	QF-OFDM	16	1	23.27	23.29	22.97			24	
20	QF-OFDM	16	1	23.29	23.31	22.97			24	
21	QF-OFDM	16	1	23.31	23.33	22.97			24	
22	QF-OFDM	16	1	23.33	23.35	22.97			24	
23	QF-OFDM	16	1	23.35	23.37	22.97			24	
24	QF-OFDM	16	1	23.37	23.39	22.97			24	
25	QF-OFDM	16	1	23.39	23.41	22.97			24	
26	QF-OFDM	16	1	23.41	23.43	22.97			24	
27	QF-OFDM	16	1	23.43	23.45	22.97			24	
28	QF-OFDM	16	1	23.45	23.47	22.97			24	
29	QF-OFDM	16	1	23.47	23.49	22.97			24	
30	QF-OFDM	16	1	23.49	23.51	22.97			24	
31	QF-OFDM	16	1	23.51	23.53	22.97			24	
32	QF-OFDM	16	1	23.53	23.55	22.97			24	
33	QF-OFDM	16	1	23.55	23.57	22.97			24	
34	QF-OFDM	16	1	23.57	23.59	22.97			24	
35	QF-OFDM	16	1	23.59	23.61	22.97			24	
36	QF-OFDM	16	1	23.61	23.63	22.97			24	
37	QF-OFDM	16	1	23.63	23.65	22.97			24	
38	QF-OFDM	16	1	23.65	23.67	22.97			24	
39	QF-OFDM	16	1	23.67	23.69	22.97			24	
40	QF-OFDM	16	1	23.69	23.71	22.97			24	
41	QF-OFDM	16	1	23.71	23.73	22.97			24	
42	QF-OFDM	16	1	23.73	23.75	22.97			24	
43	QF-OFDM	16	1	23.75	23.77	22.97			24	
44	QF-OFDM	16	1	23.77	23.79	22.97			24	
45	QF-OFDM	16	1	23.79	23.81	22.97			24	
46	QF-OFDM	16	1	23.81	23.83	22.97			24	
47	QF-OFDM	16	1	23.83	23.85	22.97			24	
48	QF-OFDM	16	1	23.85	23.87	22.97			24	

EN-DC 2A-N5									
5G BWP	Modulation	5G Sub-Carrier	5G RB Offset	Low-Freq. Sub-Carrier	Mid-Freq. Sub-Carrier	High-Freq. Sub-Carrier	Targeting info (MHz)		
Channel									
Frequency Range 1									
1	QPSK	1	1	1	1	1	20.00	20.00	
2		1	1	1	1	1	20.00	20.00	
3		1	1	1	1	1	20.00	20.00	
4		1	1	1	1	1	20.00	20.00	
5		1	1	1	1	1	20.00	20.00	
6	QPSK	1	1	1	1	1	20.00	20.00	
7		1	1	1	1	1	20.00	20.00	
8		1	1	1	1	1	20.00	20.00	
9		1	1	1	1	1	20.00	20.00	
10		1	1	1	1	1	20.00	20.00	
11	QPSK	1	1	1	1	1	20.00	20.00	
12		1	1	1	1	1	20.00	20.00	
13		1	1	1	1	1	20.00	20.00	
14		1	1	1	1	1	20.00	20.00	
15		1	1	1	1	1	20.00	20.00	
16	QPSK	1	1	1	1	1	20.00	20.00	
17		1	1	1	1	1	20.00	20.00	
18		1	1	1	1	1	20.00	20.00	
19		1	1	1	1	1	20.00	20.00	
20		1	1	1	1	1	20.00	20.00	
21	QPSK	1	1	1	1	1	20.00	20.00	
22		1	1	1	1	1	20.00	20.00	
23		1	1	1	1	1	20.00	20.00	
24		1	1	1	1	1	20.00	20.00	
25		1	1	1	1	1	20.00	20.00	
26	QPSK	1	1	1	1	1	20.00	20.00	
27		1	1	1	1	1	20.00	20.00	
28		1	1	1	1	1	20.00	20.00	
29		1	1	1	1	1	20.00	20.00	
30		1	1	1	1	1	20.00	20.00	
31	QPSK	1	1	1	1	1	20.00	20.00	
32		1	1	1	1	1	20.00	20.00	
33		1	1	1	1	1	20.00	20.00	
34		1	1	1	1	1	20.00	20.00	
35		1	1	1	1	1	20.00	20.00	
36	QPSK	1	1	1	1	1	20.00	20.00	
37		1	1	1	1	1	20.00	20.00	
38		1	1	1	1	1	20.00	20.00	
39		1	1	1	1	1	20.00	20.00	
40		1	1	1	1	1	20.00	20.00	
41	QPSK	1	1	1	1	1	20.00	20.00	
42		1	1	1	1	1	20.00	20.00	
43		1	1	1	1	1	20.00	20.00	
44		1	1	1	1	1	20.00	20.00	
45		1	1	1	1	1	20.00	20.00	
46	QPSK	1	1	1	1	1	20.00	20.00	
47		1	1	1	1	1	20.00	20.00	
48		1	1	1	1	1	20.00	20.00	
49		1	1	1	1	1	20.00	20.00	
50		1	1	1	1	1	20.00	20.00	
51	QPSK	1	1	1	1	1	20.00	20.00	
52		1	1	1	1	1	20.00	20.00	
53		1	1	1	1	1	20.00	20.00	
54		1	1	1	1	1	20.00	20.00	
55		1	1	1	1	1	20.00	20.00	
56	QPSK	1	1	1	1	1	20.00	20.00	
57		1	1	1	1	1	20.00	20.00	
58		1	1	1	1	1	20.00	20.00	
59		1	1	1	1	1	20.00	20.00	
60		1	1	1	1	1	20.00	20.00	
61	QPSK	1	1	1	1	1	20.00	20.00	
62		1	1	1	1	1	20.00	20.00	
63		1	1	1					

EN-DC 2A-N5									
5G Freq.	Modulation	SC Freq.	PRB Offset	Low Bandwidth	Modulation	SC Freq.	PRB Offset	High Bandwidth	Time slot (ms)
Frequency Range 1									
28	EN-DC PDCCH	1	1	1.34	1.34	1.34	1.34	1.34	21.5
30		1	1	1.5	1.5	1.5	1.5	1.5	
31		1	1	1.54	1.54	1.54	1.54	1.54	
32		1	1	1.54	1.54	1.54	1.54	1.54	
33		1	1	1.54	1.54	1.54	1.54	1.54	
35	EN-DC PDCCH	1	1	1.54	1.54	1.54	1.54	1.54	20.5
36		1	1	1.54	1.54	1.54	1.54	1.54	
37		1	1	1.54	1.54	1.54	1.54	1.54	
38		1	1	1.54	1.54	1.54	1.54	1.54	
39		1	1	1.54	1.54	1.54	1.54	1.54	
40	EN-DC PDCCH	1	1	1.54	1.54	1.54	1.54	1.54	21.5
41		1	1	1.54	1.54	1.54	1.54	1.54	
42		1	1	1.54	1.54	1.54	1.54	1.54	
43		1	1	1.54	1.54	1.54	1.54	1.54	
44		1	1	1.54	1.54	1.54	1.54	1.54	
45	EN-DC PDCCH	1	1	1.54	1.54	1.54	1.54	1.54	20.5
46		1	1	1.54	1.54	1.54	1.54	1.54	
47		1	1	1.54	1.54	1.54	1.54	1.54	
48		1	1	1.54	1.54	1.54	1.54	1.54	
49		1	1	1.54	1.54	1.54	1.54	1.54	
50	EN-DC PDCCH	1	1	1.54	1.54	1.54	1.54	1.54	21.5
51		1	1	1.54	1.54	1.54	1.54	1.54	
52		1	1	1.54	1.54	1.54	1.54	1.54	
53		1	1	1.54	1.54	1.54	1.54	1.54	
54		1	1	1.54	1.54	1.54	1.54	1.54	
55	EN-DC PDCCH	1	1	1.54	1.54	1.54	1.54	1.54	20.5
56		1	1	1.54	1.54	1.54	1.54	1.54	
57		1	1	1.54	1.54	1.54	1.54	1.54	
58		1	1	1.54	1.54	1.54	1.54	1.54	
59		1	1	1.54	1.54	1.54	1.54	1.54	
60	EN-DC PDCCH	1	1	1.54	1.54	1.54	1.54	1.54	21.5
61		1	1	1.54	1.54	1.54	1.54	1.54	
62		1	1	1.54	1.54	1.54	1.54	1.54	
63		1	1	1.54	1.54	1.54	1.54	1.54	
64		1	1	1.54	1.54	1.54	1.54	1.54	
65	EN-DC PDCCH	1	1	1.54	1.54	1.54	1.54	1.54	20.5
66		1	1	1.54	1.54	1.54	1.54	1.54	
67		1	1	1.54	1.54	1.54	1.54	1.54	
68		1	1	1.54	1.54	1.54	1.54	1.54	
69		1	1	1.54	1.54	1.54	1.54	1.54	
70	EN-DC PDCCH	1	1	1.54	1.54	1.54	1.54	1.54	21.5
71		1	1	1.54	1.54	1.54	1.54	1.54	
72		1	1	1.54	1.54	1.54	1.54	1.54	
73		1	1	1.54	1.54	1.54	1.54	1.54	
74		1	1	1.54	1.54	1.54	1.54	1.54	
75	EN-DC PDCCH	1	1	1.54	1.54	1.54	1.54	1.54	20.5
76		1	1	1.54	1.54	1.54	1.54	1.54	
77		1	1	1.54	1.54	1.54	1.54	1.54	
78		1	1	1.54	1.54	1.54	1.54	1.54	
79		1	1	1.54	1.54	1.54	1.54	1.54	
80	EN-DC PDCCH	1	1	1.54	1.54	1.54	1.54	1.54	21.5
81		1	1	1.54	1.54	1.54	1.54	1.54	
82		1	1	1.54	1.54	1.54	1.54	1.54	
83		1	1	1.54	1.54	1.54	1.54	1.54	
84		1	1</						

EN-DC_66A-N5									
ENI ID#	Modulation	ENI Size	ENI Offset	Low Channel	Middle Channel	High Channel	Transmitting (MHz)		
Channel									
Frequency (MHz)									
1	25C	1	1	18.81	18.75	18.83			
2	25C	1	1	18.83	18.84	18.83			
3	25C	1	1	18.87	18.88	18.87			21.0
4	25C	1	1	18.90	18.84	18.97			
5	25C	1	1	18.92	18.91	18.93			
6	25C	1	1	18.94	18.79	18.92			20.0
7	25C	1	1	18.96	18.91	18.91			
8	25C	1	1	18.98	18.87	18.97			
9	25C	1	1	19.01	18.93	19.03			21.0
10	25C	1	1	19.03	18.91	19.07			
11	25C	1	1	19.05	18.87	19.13			
12	25C	1	1	19.08	18.84	19.04			20.0
13	25C	1	1	19.10	18.86	19.13			
14	25C	1	1	19.12	18.82	19.27			
15	25C	1	1	19.14	18.77	19.28			21.0
16	25C	1	1	19.16	18.75	19.33			
17	25C	1	1	19.18	18.71	19.35			
18	25C	1	1	19.20	18.68	19.38			21.0
19	25C	1	1	19.22	18.65	19.42			
20	25C	1	1	19.24	18.61	19.45			
21	25C	1	1	19.26	18.57	19.49			21.0
22	25C	1	1	19.28	18.54	19.52			
23	25C	1	1	19.30	18.50	19.55			
24	25C	1	1	19.32	18.47	19.58			21.0
25	25C	1	1	19.34	18.43	19.61			
26	25C	1	1	19.36	18.40	19.64			
27	25C	1	1	19.38	18.36	19.67			21.0
28	25C	1	1	19.40	18.33	19.70			
29	25C	1	1	19.42	18.29	19.73			
30	25C	1	1	19.44	18.26	19.76			21.0
31	25C	1	1	19.46	18.22	19.79			
32	25C	1	1	19.48	18.19	19.82			
33	25C	1	1	19.50	18.15	19.85			21.0
34	25C	1	1	19.52	18.12	19.88			
35	25C	1	1	19.54	18.08	19.91			
36	25C	1	1	19.56	18.05	19.94			21.0
37	25C	1	1	19.58	18.01	19.97			
38	25C	1	1	19.60	17.98	20.00			
39	25C	1	1	19.62	17.94	20.03			21.0
40	25C	1	1	19.64	17.91	20.06			
41	25C	1	1	19.66	17.87	20.09			
42	25C	1	1	19.68	17.84	20.12			21.0
43	25C	1	1	19.70	17.80	20.15			
44	25C	1	1	19.72	17.77	20.18			
45	25C	1	1	19.74	17.73	20.21			21.0
46	25C	1	1	19.76	17.70	20.24			
47	25C	1	1	19.78	17.66	20.27			
48	25C	1	1	19.80	17.63	20.30			21.0
49	25C	1	1	19.82	17.59	20.33			
50	25C	1	1	19.84	17.56	20.36			
51	25C	1	1	19.86	17.52	20.39			21.0
52	25C	1	1	19.88	17.49	20.42			
53	25C	1	1	19.90	17.45	20.45			
54	25C	1	1</						

EN-DC, 6GA-N5									
5G (MHz)	Modulation	Sub-Carrier	SSB Offset	Low Frequency	Midband Frequency	High Frequency	Frequency Range (MHz)		
20	OFDM (FDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (TDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (FDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (TDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (FDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (TDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (FDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (TDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (FDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (TDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (FDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (TDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (FDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (TDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810	1810	1810				
20	OFDM (FDD)	1	0	1810	1810	1810	20	20	20
5		1	1810	1810	1810				
10		1	1810	1810	1810				
15		1	1810	1810	1810				
20		1	1810						

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EN-DC_25A-N41

BW [MHz]	Modulation	FBS Size	RFE Offset	Linc Channel	Modulation		Modulation		Modulation	Channel Capacity [Mbps]	Throughput [Mbps]
					Channel	Frequency [MHz]	Channel	Frequency [MHz]			
Scenario 1											
20	OFDM	1	1	20.27	20.27	20.27	20.27	20.27	20.27	20.27	20.27
		2	1	18.6	25.46	26.12	25.78	25.98	26.1	27.5	
		3	1	17.7	25.82	26.79	26.43	26.78	26.98		
		4	1	16.5	26.1	26.49	26.49	26.49	26.49		
		5	1	15.6	26.18	26.87	26.32	26.48	26.75	27.5	
	OFDM-PQ BPSK	1	1	19.9	25.26	25.26	25.42	26.26	26.75	26.48	
		2	1	20.2	25.37	26.1	26.1	26.1	26.1	26.48	
		3	1	1	25.26	25.78	25.98	26.78	26.74	27.5	
		4	1	1	25.78	26.12	26.12	26.12	26.12		
		5	1	27.1	26.52	26.89	25.57	25.74	25.88		
100	OFDM-QPSK	1	1	25.74	26.77	26.48	26.48	25.72	25.87		
		2	1	26.1	26.86	26.86	26.86	26.86	26.86		
		3	1	15.6	25.41	25.41	25.41	25.41	25.41	26.5	
		4	1	26.54	26.81	26.81	26.48	26.46	26.69		
		5	1	26.87	26.9	26.9	26.9	26.9	26.9	26.5	
	OFDM-16QAM	1	1	15.6	25.36	26.05	25.49	26.78	26.26		
		2	1	27.1	25.41	25.52	24.50	24.63	24.87		
		3	1	15.6	25.41	25.41	25.41	25.41	25.41	26.5	
		4	1	26.87	26.86	26.86	26.86	26.86	26.86		
		5	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
200	OFDM-64QAM	1	1	26.87	26.86	26.86	26.86	26.86	26.86		
		2	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		3	1	26.87	26.86	26.86	26.86	26.86	26.86		
		4	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		5	1	26.87	26.86	26.86	26.86	26.86	26.86		
	OFDM-256QAM	1	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		2	1	26.87	26.86	26.86	26.86	26.86	26.86		
		3	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		4	1	26.87	26.86	26.86	26.86	26.86	26.86		
		5	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
Scenario 2											
20	OFDM	1	1	20.27	20.27	20.27	20.27	20.27	20.27	20.27	20.27
		2	1	18.6	25.46	26.12	25.78	25.98	26.1	27.5	
		3	1	17.7	25.82	26.79	26.43	26.78	26.98		
		4	1	16.5	26.1	26.49	26.49	26.49	26.49		
		5	1	15.6	26.18	26.87	26.32	26.48	26.75	27.5	
	OFDM-PQ BPSK	1	1	19.9	25.26	25.26	25.42	26.26	26.75	26.48	
		2	1	20.2	25.37	26.1	26.1	26.1	26.1	26.48	
		3	1	1	25.26	25.78	25.98	26.78	26.74	27.5	
		4	1	1	25.78	26.12	26.12	26.12	26.12		
		5	1	27.1	26.52	26.89	25.57	25.74	25.88		
100	OFDM-QPSK	1	1	25.74	26.77	26.48	26.48	25.72	25.87		
		2	1	26.1	26.86	26.86	26.86	26.86	26.86		
		3	1	15.6	25.41	25.41	25.41	25.41	25.41	26.5	
		4	1	26.54	26.81	26.81	26.48	26.46	26.69		
		5	1	26.87	26.9	26.9	26.9	26.9	26.9	26.5	
	OFDM-16QAM	1	1	15.6	25.36	26.05	25.49	26.78	26.26		
		2	1	27.1	25.41	25.52	24.50	24.63	24.87		
		3	1	15.6	25.41	25.41	25.41	25.41	25.41	26.5	
		4	1	26.87	26.86	26.86	26.86	26.86	26.86		
		5	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
200	OFDM-64QAM	1	1	26.87	26.86	26.86	26.86	26.86	26.86		
		2	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		3	1	26.87	26.86	26.86	26.86	26.86	26.86		
		4	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		5	1	26.87	26.86	26.86	26.86	26.86	26.86		
	OFDM-256QAM	1	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		2	1	26.87	26.86	26.86	26.86	26.86	26.86		
		3	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		4	1	26.87	26.86	26.86	26.86	26.86	26.86		
		5	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
Scenario 3											
20	OFDM	1	1	20.27	20.27	20.27	20.27	20.27	20.27	20.27	20.27
		2	1	18.6	25.46	26.12	25.78	25.98	26.1	27.5	
		3	1	17.7	25.82	26.79	26.43	26.78	26.98		
		4	1	16.5	26.1	26.49	26.49	26.49	26.49		
		5	1	15.6	26.18	26.87	26.32	26.48	26.75	27.5	
	OFDM-PQ BPSK	1	1	19.9	25.26	25.26	25.42	26.26	26.75	26.48	
		2	1	20.2	25.37	26.1	26.1	26.1	26.1	26.48	
		3	1	1	25.26	25.78	25.98	26.78	26.74	27.5	
		4	1	1	25.78	26.12	26.12	26.12	26.12		
		5	1	27.1	26.52	26.89	25.57	25.74	25.88		
100	OFDM-QPSK	1	1	25.74	26.77	26.48	26.48	25.72	25.87		
		2	1	26.1	26.86	26.86	26.86	26.86	26.86		
		3	1	15.6	25.41	25.41	25.41	25.41	25.41	26.5	
		4	1	26.54	26.81	26.81	26.48	26.46	26.69		
		5	1	26.87	26.9	26.9	26.9	26.9	26.9	26.5	
	OFDM-16QAM	1	1	15.6	25.36	26.05	25.49	26.78	26.26		
		2	1	27.1	25.41	25.52	24.50	24.63	24.87		
		3	1	15.6	25.41	25.41	25.41	25.41	25.41	26.5	
		4	1	26.87	26.86	26.86	26.86	26.86	26.86		
		5	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
200	OFDM-64QAM	1	1	26.87	26.86	26.86	26.86	26.86	26.86		
		2	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		3	1	26.87	26.86	26.86	26.86	26.86	26.86		
		4	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		5	1	26.87	26.86	26.86	26.86	26.86	26.86		
	OFDM-256QAM	1	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		2	1	26.87	26.86	26.86	26.86	26.86	26.86		
		3	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		4	1	26.87	26.86	26.86	26.86	26.86	26.86		
		5	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
Scenario 4											
20	OFDM	1	1	20.27	20.27	20.27	20.27	20.27	20.27	20.27	20.27
		2	1	18.6	25.46	26.12	25.78	25.98	26.1	27.5	
		3	1	17.7	25.82	26.79	26.43	26.78	26.98		
		4	1	16.5	26.1	26.49	26.49	26.49	26.49		
		5	1	15.6	26.18	26.87	26.32	26.48	26.75	27.5	
	OFDM-PQ BPSK	1	1	19.9	25.26	25.26	25.42	26.26	26.75	26.48	
		2	1	20.2	25.37	26.1	26.1	26.1	26.1	26.48	
		3	1	1	25.26	25.78	25.98	26.78	26.74	27.5	
		4	1	1	25.78	26.12	26.12	26.12	26.12		
		5	1	27.1	26.52	26.89	25.57	25.74	25.88		
100	OFDM-QPSK	1	1	25.74	26.77	26.48	26.48	25.72	25.87		
		2	1	26.1	26.86	26.86	26.86	26.86	26.86		
		3	1	15.6	25.41	25.41	25.41	25.41	25.41	26.5	
		4	1	26.54	26.81	26.81	26.48	26.46	26.69		
		5	1	26.87	26.9	26.9	26.9	26.9	26.9	26.5	
	OFDM-16QAM	1	1	15.6	25.36	26.05	25.49	26.78	26.26		
		2	1	27.1	25.41	25.52	24.50	24.63	24.87		
		3	1	15.6	25.41	25.41	25.41	25.41	25.41	26.5	
		4	1	26.87	26.86	26.86	26.86	26.86	26.86		
		5	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
200	OFDM-64QAM	1	1	26.87	26.86	26.86	26.86	26.86	26.86		
		2	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		3	1	26.87	26.86	26.86	26.86	26.86	26.86		
		4	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		5	1	26.87	26.86	26.86	26.86	26.86	26.86		
	OFDM-256QAM	1	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		2	1	26.87	26.86	26.86	26.86	26.86	26.86		
		3	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	
		4	1	26.87	26.86	26.86	26.86	26.86	26.86		
		5	1	26.87	26.86	26.86	26.86	26.86	26.86	26.5	

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[illegible]

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EN-DC_66A-N41

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EN-DC 2A-N66									
5G BWP	Modulation	5G Sub	5G Offset	5G L1 Channel	5G Modulation	5G Sub	5G Offset	5G L1 Channel	5G Modulation
Channel									
Frequency Range 1									
20	5G NR-SSB PDSCH (PDSCH)	1	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	20	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	40	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	60	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	80	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	100	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	120	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	140	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	160	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	180	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	200	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	220	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	240	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	260	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	280	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	300	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	320	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	340	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	360	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	380	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	400	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	420	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	440	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	460	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	480	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	500	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	520	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	540	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	560	0	20.00	20.15	20.00	0	20.00	20.15
20		1	0	20.15	20.40	20.15	0	20.15	20.40
20		1	0	20.40	20.65	20.40	0	20.40	20.65
20		1	0	20.65	20.90	20.65	0	20.65	20.90
20		1	0	20.90	21.15	20.90	0	20.90	21.15
20	5G NR-SSB PDSCH (PDSCH)	580	0	20.00	20.15				

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		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15	EN-DC RLC layer	1	1	2131	2131	2140	2140	23	
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15	EN-DC MAC layer	1	1	2131	2131	2140	2140	23	
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15	EN-DC PHY layer	1	1	2131	2131	2140	2140	23	
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15	EN-DC RRC layer	1	1	2131	2131	2140	2140	23	
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15	EN-DC NAS layer	1	1	2131	2131	2140	2140	23	
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15	EN-DC Security layer	1	1	2131	2131	2140	2140	23	
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15	EN-DC Core network	1	1	2131	2131	2140	2140	23	
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		
15	EN-DC User plane	1	1	2131	2131	2140	2140	23	
15		1	1	2131	2131	2140	2140		
15		1	1	2131	2131	2140	2140		

[illegible][illegible]

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RF B/W	Modulation	RF Chan	RF Chan	Local Channel	Mobile Channel	High Channel	Transmit Band (MHz)
Channel							
Frequency B/W							
20	1	1	1	24020	24.04	24.05	24.5
15	1	1	1	24030	24.05	24.06	
10	1	1	1	24040	24.06	24.07	
CP-OTDM PUS B/W							
20	1	1	1	24050	24.07	24.08	25.0
15	1	1	1	24060	24.08	24.09	
10	1	1	1	24070	24.09	24.10	
CP-OTDM CPW							
20	1	1	1	24080	24.10	24.11	25.5
15	1	1	1	24090	24.11	24.12	
10	1	1	1	24100	24.12	24.13	
CP-OTDM CPW							
20	1	1	1	24110	24.13	24.14	26.0
15	1	1	1	24120	24.14	24.15	
10	1	1	1	24130	24.15	24.16	
CP-OTDM HOME							
20	1	1	1	24140	24.16	24.17	26.5
15	1	1	1	24150	24.17	24.18	
10	1	1	1	24160	24.18	24.19	
CP-OTDM HOME							
20	1	1	1	24170	24.19	24.20	27.0
15	1	1	1	24180	24.20	24.21	
10	1	1	1	24190	24.21	24.22	
CP-OTDM HOME							
20	1	1	1	24200	24.22	24.23	27.5
15	1	1	1	24210	24.23	24.24	
10	1	1	1	24220	24.24	24.25	
CP-OTDM HOME							
20	1	1	1	24230	24.25	24.26	28.0
15	1	1	1	24240	24.26	24.27	
10	1	1	1	24250	24.27	24.28	
CP-OTDM HOME							
20	1	1	1	24260	24.28	24.29	28.5
15	1	1	1	24270	24.29	24.30	
10	1	1	1	24280	24.30	24.31	
CP-OTDM HOME							
20	1	1	1	24290	24.31	24.32	29.0
15	1	1	1	24300	24.32	24.33	
10	1	1	1	24310	24.33	24.34	
CP-OTDM HOME							
20	1	1	1	24320	24.34	24.35	29.5
15	1	1	1	24330	24.35	24.36	
10	1	1	1	24340	24.36	24.37	
CP-OTDM HOME							
20	1	1	1	24350	24.37	24.38	30.0
15	1	1	1	24360	24.38	24.39	
10	1	1	1	24370	24.39	24.40	
CP-OTDM HOME							
20	1	1	1	24380	24.40	24.41	30.5
15	1	1	1	24390	24.41	24.42	
10	1	1	1	24400	24.42	24.43	
CP-OTDM HOME							
20	1	1	1	24410	24.43	24.44	31.0
15	1	1	1	24420	24.44	24.45	
10	1	1	1	24430	24.45	24.46	
CP-OTDM HOME							
20	1	1	1	24440	24.46	24.47	31.5
15	1	1	1	24450	24.47	24.48	
10	1	1	1	24460	24.48	24.49	
CP-OTDM HOME							
20	1	1	1	24470	24.49	24.50	32.0
15	1	1	1	24480	24.50	24.51	
10	1	1	1	24490	24.51	24.52	
CP-OTDM HOME							
20	1	1	1	24500	24.52	24.53	32.5
15	1	1	1	24510	24.53	24.54	
10	1	1	1	24520	24.54	24.55	
CP-OTDM HOME							
20	1	1	1	24530	24.55	24.56	33.0
15	1	1	1	24540	24.56	24.57	
10	1	1	1	24550	24.57	24.58	
CP-OTDM HOME							
20	1	1	1	24560	24.58	24.59	33.5
15	1	1	1	24570	24.59	24.60	
10	1	1	1	24580	24.60	24.61	
CP-OTDM HOME							
20	1	1	1	24590	24.61	24.62	34.0
15	1	1	1	24600	24.62	24.63	
10	1	1	1	24610	24.63	24.64	
CP-OTDM HOME							
20	1	1	1	24620	24.64	24.65	34.5
15	1	1	1	24630	24.65	24.66	
10	1	1	1	24640	24.66	24.67	
CP-OTDM HOME							
20	1	1	1	24650	24.67	24.68	35.0
15	1	1	1	24660	24.68	24.69	
10	1	1	1	24670	24.69	24.70	
CP-OTDM HOME							
20	1	1	1	24680	24.70	24.71	35.5
15	1	1	1	24690	24.71	24.72	
10	1	1	1	24700	24.72	24.73	
CP-OTDM HOME							
20	1	1	1	24710	24.73	24.74	36.0
15	1	1	1	24720	24.74	24.75	
10	1	1	1	24730	24.75	24.76	
CP-OTDM HOME							
20	1	1	1	24740	24.76	24.77	36.5
15	1	1	1	24750	24.77	24.78	
10	1	1	1	24760	24.78	24.79	
CP-OTDM HOME							
20	1	1	1	24770	24.79	24.80	37.0
15	1	1	1	24780	24.80	24.81	
10	1	1	1	24790	24.81	24.82	
CP-OTDM HOME							
20	1	1	1	24800	24.82	24.83	37.5
15	1	1	1	24810	24.83	24.84	
10	1	1	1	24820	24.84	24.85	
CP-OTDM HOME							
20	1	1	1	24830	24.85	24.86	38.0
15	1	1	1	24840	24.86	24.87	
10	1	1	1	24850	24.87	24.88	
CP-OTDM HOME							
20	1	1	1	24860	24.88	24.89	38.5
15	1	1	1	24870	24.89	24.90	
10	1	1	1	24880	24.90	24.91	
CP-OTDM HOME							
20	1	1	1	24890	24.91	24.92	39.0
15	1	1	1	24900	24.92	24.93	
10	1	1	1	24910	24.93	24.94	
CP-OTDM HOME							
20	1	1	1	24920	24.94	24.95	39.5
15	1	1	1	24930	24.95	24.96	
10	1	1	1	24940	24.96	24.97	
CP-OTDM HOME							
20	1	1	1	24950	24.97	24.98	40.0
15	1	1	1	24960	24.98	24.99	
10	1	1	1	24970	24.99	25.00	
CP-OTDM HOME							
20	1	1	1	24980	25.00	25.01	40.5
15	1	1	1	24990	25.01	25.02	
10	1	1	1	25000	25.02	25.03	
CP-OTDM HOME							
20	1	1	1	25010	25.03	25.04	41.0
15	1	1	1	25020	25.04	25.05	
10	1	1	1	25030	25.05	25.06	
CP-OTDM HOME							
20	1	1	1	25040	25.06	25.07	41.5
15	1	1	1	25050	25.07	25.08	
10	1	1	1	25060	25.08	25.09	
CP-OTDM HOME							
20	1	1	1	25070	25.09	25.10	42.0
15	1	1	1	25080	25.10	25.11	
10	1	1	1	25090	25.11	25.12	
CP-OTDM HOME							
20	1	1	1	25100	25.12	25.13	42.5
15	1	1	1	25110	25.13	25.14	
10	1	1	1	25120	25.14	25.15	
CP-OTDM HOME							
20	1	1	1	25130	25.15	25.16	43.0
15	1	1	1	25140	25.16	25.17	
10	1	1	1	25150	25.17	25.18	
CP-OTDM HOME							
20	1	1	1	25160	25.18	25.19	43.5
15	1	1	1	25170	25.19	25.20	
10	1	1	1	25180	25.20	25.21	
CP-OTDM HOME							
20	1	1	1	25190	25.21	25.22	44.0
15	1	1	1	25200	25.22	25.23	
10	1	1	1	25210	25.23	25.24	
CP-OTDM HOME							
20	1	1	1	25220	25.24	25.25	44.5
15	1	1	1	25230	25.25	25.26	
10	1	1	1	25240	25.26	25.27	
CP-OTDM HOME							
20	1	1	1	25250	25.27	25.28	45.0
15	1	1	1	25260	25.28		

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BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Midle Channel	High Channel	Tune-up limit (dBm)	
Channel								
Frequency (MHz)								
				134600	136100	137600		
				673	680.5	688		
20	DFT-s-OFDM P12 BPSK	1	1	19.54	18.91	18.92	20	
20		1	53	19.72	19.88	19.66		
20		1	104	19.70	18.96	19.71		
20		50	25	19.51	19.92	19.43		
20		50	50	19.23	19.11	19.07		
20	DFT-s-OFDM QPSK	50	50	19.54	19.96	19.73	20	
20		100	0	19.84	19.99	19.77		
20		1	1	20.60	20.79	20.96		
20		1	53	19.74	19.76	19.83		
20		1	104	18.78	18.79	19.00		
20	DFT-s-OFDM 16QAM	50	1	19.54	19.63	19.38	20.5	
20		50	25	19.76	19.74	19.94		
20		50	50	19.53	20.13	19.29		
20		100	0	19.63	19.91	19.78		
20		1	1	18.83	18.83	18.89		
20	DFT-s-OFDM 64QAM	1	53	19.76	19.62	19.38	20.5	
20		1	104	19.72	18.72	18.76		
20		50	1	19.65	19.98	19.60		
20		50	25	19.76	18.66	19.08		
20		50	50	19.53	20.13	19.29		
20	DFT-s-OFDM 256QAM	100	0	19.85	19.89	19.41	20	
20		1	1	18.79	18.99	19.43		
20		1	53	19.91	20.13	20.44		
20		1	104	19.33	18.96	19.68		
20		50	1	19.67	19.74	19.34		
20	DFT-s-OFDM 64QAM	50	25	19.67	18.87	19.74	20.5	
20		50	50	19.59	20.07	19.53		
20		100	0	19.57	20.02	19.24		
20		1	1	18.24	18.32	19.11		
20		1	53	19.75	19.86	19.40		
20	DFT-s-OFDM 256QAM	1	104	18.44	19.19	18.43	21.5	
20		50	1	19.79	19.87	19.59		
20		50	25	19.71	19.62	19.67		
20		50	50	20.63	20.67	20.84		
20		100	0	19.79	20.19	19.59		
Channel								
Frequency (MHz)								
				134100	136100	138100		
				670.5	680.5	690.5		
15	DFT-s-OFDM P12 BPSK	1	1	20.38	20.41	20.39	20	
15		1	39	19.72	20.08	19.39		
15		1	77	19.66	19.69	19.69		
15		36	1	19.72	19.86	19.40		
15		36	16	20.10	20.12	20.15		
15	DFT-s-OFDM QPSK	36	36	20.96	20.95	20.91	21.5	
15		75	0	20.78	19.96	19.90		
15		1	1	20.38	20.42	20.36		
15		1	39	19.78	19.77	19.85		
15		1	77	19.60	19.68	19.66		
15	DFT-s-OFDM 16QAM	36	1	19.68	20.01	19.43	21	
15		36	16	20.16	20.17	20.18		
15		36	36	19.70	20.01	19.16		
15		75	0	19.69	19.91	19.38		
15		1	1	20.48	20.58	20.55		
15	DFT-s-OFDM 64QAM	1	39	20.78	20.79	20.82	21	
15		1	77	19.81	19.71	19.74		
15		36	1	20.65	20.59	20.71		
15		36	16	20.14	20.16	20.17		
15		36	36	20.41	20.82	20.68		
15	DFT-s-OFDM 256QAM	75	0	20.53	20.80	20.34	21	
15		1	1	20.80	20.34	20.82		
15		1	39	20.57	20.80	20.58		
15		1	77	20.28	19.78	20.30		
15		36	1	19.69	19.85	19.83		
15	DFT-s-OFDM 64QAM	36	16	20.20	20.25	20.22	21	
15		36	36	19.48	19.89	19.40		
15		75	0	19.51	19.93	19.70		
15		1	1	20.12	20.05	20.07		
15		1	39	19.61	19.96	19.74		
15	DFT-s-OFDM 256QAM	1	77	19.44	19.33	19.38	21	
15		36	1	19.71	19.73	19.80		
15		36	16	20.08	20.12	20.07		
15		36	36	20.71	20.01	20.14		
15		75	0	19.51	19.80	19.35		
Channel								
Frequency (MHz)								
				135600	136100	138600		
				668	680.5	693		
10	DFT-s-OFDM P12 BPSK	1	1	20.35	20.46	20.35	21	
10		1	25	19.50	19.95	19.71		
10		1	50	19.87	19.84	20.05		
10		25	1	19.60	19.81	19.75		
10		25	12	20.27	20.23	20.35		
10	DFT-s-OFDM QPSK	25	24	20.62	20.56	20.68	21	
10		50	0	20.38	20.79	20.65		
10		1	1	20.34	20.42	20.36		
10		1	25	20.50	20.87	20.51		
10		1	50	19.98	19.89	20.03		
10	DFT-s-OFDM 16QAM	25	1	19.66	19.82	19.80	21	
10		25	12	20.30	20.19	20.31		
10		25	24	19.45	19.86	19.37		
10		50	0	19.48	19.90	19.67		
10		1	1	20.48	20.53	20.52		
10	DFT-s-OFDM 64QAM	1	25	19.58	19.53	19.71	21	
10		1	50	19.12	20.01	20.06		
10		25	1	20.47	20.08	20.57		
10		25	12	20.32	20.26	20.30		
10		25	24	20.68	20.68	20.11		
10	DFT-s-OFDM 256QAM	50	0	20.86	20.08	20.58	21	
10		1	1	20.72	20.45	20.75		
10		1	25	20.51	20.84	20.52		
10		1	50	20.14	19.85	20.15		
10		25	1	20.47	20.84	20.48		
10		DFT-s-OFDM 64QAM	25	12	20.18	20.17	20.28	21
10			25	24	20.36	20.76	20.28	
10	50		0	19.48	19.77	19.32		
10	1		1	20.01	20.06	20.04		
10	1		25	20.59	20.53	20.65		
10	DFT-s-OFDM 256QAM	1	50	19.53	19.45	19.65	21	
10		25	1	19.68	19.70	19.77		
10		25	12	20.24	20.20	20.26		
10		25	24	20.06	20.33	19.99		
10		50	0	19.57	19.85	19.72		
Channel								
Frequency (MHz)								
				137100	138100	139100		
				665.5	680.5	695.5		
5	DFT-s-OFDM P12 BPSK	1	1	20.37	20.39	20.36	21	
5		1	12	20.42	20.88	20.76		
5		1	25	20.23	20.28	20.27		
5		12	1	19.63	19.79	19.77		
5		12	6	20.30	20.40	20.35		
5	DFT-s-OFDM QPSK	12	12	19.42	19.83	19.34	21	
5		25	0	19.47	19.92	19.68		
5		1	1	20.38	20.39	20.36		
5		1	12	19.45	19.87	19.84		
5		1	25	20.17	20.20	20.19		
5	DFT-s-OFDM 16QAM	12	1	20.83	20.85	20.84	21	
5		12	6	20.35	20.40	20.29		
5		12	12	20.54	20.95	20.34		
5		25	0	20.85	20.55	20.08		
5		1	1	20.52	20.45	20.43		
5	DFT-s-OFDM 64QAM	1	12	19.69	19.67	19.74	21	
5		1	25	20.51	20.38	20.42		
5		12	1	19.45	19.74	19.29		
5		12	6	20.36	20.36	20.34		
5		12	12	19.45	19.89	19.55		
5	DFT-s-OFDM 256QAM	25	0	19.54	19.62	19.69	21	
5		1	1	20.75	20.77	20.75		
5		1	12	20.70	20.22	20.45		
5		1	25	20.22	20.25	20.23		
5		12	1	20.61	20.39	20.38		
5	DFT-s-OFDM 64QAM	12	1	20.80	20.69	20.50	21	
5		25	1	20.78	20.51	20.45		
5		1	1	20.02	20.03	20.03		
5		1	12	20.68	20.29	20.51		
5		1	25	19.86	19.87	19.87		
5	DFT-s-OFDM 256QAM	12	1	20.58	20.29	20.32	21	
5		12	6	20.39	20.39	20.38		
5		12	12	20.77	20.05	20.60		
5		25	0	20.83	20.48	20.59		

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BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Midle Channel	High Channel	Tune-up limit (dBm)
Channel							
Frequency (MHz)							
20	CP-OFDM P2 PSK	1	1	20.46	20.80	20.15	21.5
20		1	53	20.95	20.94	20.91	
20		1	104	20.11	20.60	20.50	
20		53	53	20.16	20.31	20.48	
20		53	26	20.54	20.61	20.21	
20	CP-OFDM QPSK	53	52	20.58	20.03	20.04	21.5
20		106	0	20.29	20.29	20.27	
20		1	1	19.87	19.81	19.86	
20		1	53	20.52	20.20	20.21	
20		1	104	18.06	19.53	19.49	
20	CP-OFDM 16QAM	53	1	20.43	20.22	20.48	21
20		53	25	19.64	19.99	19.96	
20		53	52	20.37	20.37	20.38	
20		106	0	20.38	20.26	20.33	
20		1	1	18.84	19.02	18.80	
20	CP-OFDM 64QAM	1	53	19.33	19.14	18.89	21.5
20		1	104	18.70	19.22	19.58	
20		53	1	19.36	19.28	19.07	
20		53	26	19.06	19.77	19.01	
20		53	52	19.32	19.11	19.12	
20	CP-OFDM 256QAM	106	0	20.37	20.29	20.44	21
20		1	1	19.89	19.56	19.71	
20		1	53	18.34	18.08	18.12	
20		1	104	18.62	19.37	19.13	
20		53	1	18.23	18.07	18.19	
20	CP-OFDM 16QAM	53	11	19.71	19.75	19.03	20
20		53	52	18.30	18.26	18.03	
20		106	0	18.39	18.09	18.04	
20		1	1	18.33	18.41	19.11	
20		1	53	18.76	18.99	18.11	
20	CP-OFDM 64QAM	1	104	18.40	18.26	18.21	20
20		53	1	18.05	18.42	18.63	
20		53	26	19.03	19.76	19.73	
20		53	52	20.53	20.44	20.43	
20		106	0	20.43	20.54	20.55	
Channel							
Frequency (MHz)							
15	CP-OFDM P2 PSK	1	1	20.25	20.48	20.41	21.5
15		1	37	20.18	20.46	20.39	
15		1	77	20.36	20.39	20.59	
15		39	1	20.20	20.32	20.38	
15		39	19	20.28	20.31	20.41	
15	CP-OFDM QPSK	39	38	20.30	20.38	20.38	20.5
15		1	79	20.36	20.23	20.42	
15		1	154	20.55	20.55	20.58	
15		1	37	20.59	20.48	20.48	
15		1	77	19.76	19.59	19.57	
15	CP-OFDM 16QAM	39	191	20.27	20.35	20.30	21
15		39	38	20.36	20.36	20.44	
15		79	0	20.60	20.88	20.66	
15		1	1	20.55	20.52	20.55	
15		1	37	20.15	20.51	20.38	
15	CP-OFDM 64QAM	39	1	19.70	19.63	19.73	21
15		39	1	20.40	20.24	20.38	
15		39	191	20.32	20.35	20.33	
15		39	38	20.29	20.39	20.42	
15		79	0	20.28	20.47	20.42	
15	CP-OFDM 256QAM	1	1	20.39	20.34	20.39	21
15		1	37	19.13	20.10	19.61	
15		1	77	20.63	19.52	19.82	
15		39	1	20.29	20.26	20.19	
15		39	191	20.27	20.27	20.38	
15	CP-OFDM 64QAM	39	38	19.89	20.05	20.00	21
15		79	0	19.84	20.01	19.90	
15		1	1	20.10	20.16	20.10	
15		1	77	20.15	20.15	19.05	
15		1	37	19.41	19.34	19.36	
15	CP-OFDM 16QAM	39	1	19.80	20.88	20.20	21
15		39	191	20.23	20.25	20.23	
15		38	38	19.93	19.86	19.87	
15		79	0	19.93	20.00	20.02	
15		79	0	19.93	20.00	20.02	
Channel							
Frequency (MHz)							
10	CP-OFDM P2 PSK	1	1	20.91	20.54	20.95	21.5
10		1	25	20.03	20.57	20.06	
10		1	50	19.29	20.08	20.07	
10		25	1	20.26	20.58	20.22	
10		25	13	20.27	20.19	19.71	
10	CP-OFDM QPSK	25	26	20.25	20.34	20.28	20.5
10		52	0	19.95	19.98	20.02	
10		1	1	20.36	20.50	20.38	
10		1	25	19.98	20.67	20.02	
10		1	50	19.18	20.05	20.03	
10	CP-OFDM 16QAM	25	1	19.65	19.49	19.66	20
10		25	13	20.18	20.16	20.21	
10		25	26	19.64	19.64	19.65	
10		52	0	19.87	20.07	20.80	
10		1	1	20.54	20.44	20.47	
10	CP-OFDM 64QAM	1	25	19.60	19.56	19.75	21
10		1	50	20.11	19.97	20.04	
10		25	16	19.33	19.33	19.33	
10		25	13	20.29	20.13	20.22	
10		25	26	20.63	20.50	20.74	
10	CP-OFDM 256QAM	1	1	19.72	19.47	19.59	21
10		52	0	20.36	20.27	19.44	
10		25	1	20.57	20.56	20.74	
10		1	50	19.87	19.81	19.97	
10		25	1	19.71	19.66	19.75	
10	CP-OFDM 64QAM	25	13	20.22	20.14	20.24	20
10		25	26	19.74	19.60	19.62	
10		52	0	19.63	19.56	19.68	
10		1	1	20.08	20.14	20.09	
10		1	25	19.90	19.81	19.99	
10	CP-OFDM 16QAM	1	50	19.63	19.59	19.55	21
10		25	10	19.53	19.53	19.69	
10		25	13	19.19	20.14	20.26	
10		25	26	19.85	19.60	19.78	
10		52	0	19.69	19.68	19.68	
Channel							
Frequency (MHz)							
5	CP-OFDM P2 PSK	1	1	20.86	20.45	20.50	21
5		1	12	20.89	20.50	20.59	
5		1	23	20.60	20.54	20.80	
5		12	1	20.72	20.34	20.69	
5		12	6	20.77	20.92	20.87	
5	CP-OFDM QPSK	12	12	20.57	20.68	20.86	21
5		25	0	20.72	20.78	20.87	
5		1	1	20.59	20.41	20.59	
5		1	12	19.77	19.51	19.62	
5		1	23	20.28	20.30	20.43	
5	CP-OFDM 16QAM	12	1	20.68	20.54	20.77	21
5		13	6	20.25	20.37	20.37	
5		12	12	20.61	20.37	20.36	
5		12	1	19.76	20.70	20.62	
5		1	1	20.47	20.48	20.47	
5	CP-OFDM 64QAM	1	12	20.52	20.60	20.78	21
5		1	23	20.35	20.37	20.37	
5		13	6	19.95	19.65	19.62	
5		12	1	20.30	20.31	20.23	
5		12	12	19.54	19.64	19.65	
5	CP-OFDM 256QAM	1	1	19.68	19.60	19.71	21
5		1	25	20.30	20.31	20.29	
5		1	23	20.12	20.13	20.21	
5		12	1	20.24	20.25	20.21	
5		19	6	20.37	20.38	20.37	
5	CP-OFDM 16QAM	12	12	20.63	20.32	20.28	21
5		25	0	20.05	20.24	20.27	
5		1	1	20.11	20.11	20.01	
5		1	12	20.81	20.79	20.77	
5		12	1	19.94	19.98	19.95	
5	CP-OFDM 64QAM	12	1	20.74	20.49	20.82	21
5		13	6	20.43	20.42	20.40	
5		12	12	20.65	20.58	20.63	
5		25	0	20.58	20.57	20.72	
5		1	1	20.45	20.45	20.45	