



Full&Default Power Mode

GSM900_Ant 0	Back-Asiapp Power (dBm)			Turn-up Limit (dBm)	Front-Asiapp Power (dBm)			Turn-up Limit (dBm)
	120	180	255		120	180	255	
Frequency (MHz)	120.2	180.2	255.2	120.2	180.2	255.2	120.2	180.2
GSM 1 Tx watt	32.92	32.48	32.63	33.60	33.92	33.48	33.63	34.50
GPBS 1 Tx watt	32.91	32.43	32.61	33.60	33.91	33.43	33.61	34.50
GPBS 2 Tx watt	33.23	33.02	33.98	34.60	34.23	34.02	33.98	35.00
GPBS 3 Tx watt	28.68	28.70	28.53	29.50	24.42	24.44	24.27	25.24
EDGE 1 Tx watt	28.89	27.01	26.80	28.00	23.89	24.01	23.80	25.00
EDGE 2 Tx watt	25.83	25.63	25.60	26.00	18.83	18.63	18.60	17.50
EDGE 3 Tx watt	25.04	24.58	24.82	25.50	19.04	18.58	18.82	18.50
EDGE 4 Tx watt	23.29	22.27	21.54	21.00	18.00	18.76	18.00	18.50
EDGE 4 Tx watt	21.25	21.15	21.10	21.50	16.26	16.15	16.10	16.50

GSM1000_Ant 2	Back-Asiapp Power (dBm)			Turn-up Limit (dBm)	Front-Asiapp Power (dBm)			Turn-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2
GSM 1 Tx watt	29.73	29.84	29.62	30.50	29.73	29.84	29.62	31.50
GPBS 1 Tx watt	29.73	29.81	29.78	30.50	29.73	29.81	29.78	31.50
GPBS 2 Tx watt	27.40	27.55	27.47	27.60	21.40	21.55	21.47	21.50
GPBS 3 Tx watt	25.99	25.78	25.71	26.00	21.43	21.50	21.45	21.50
GPBS 4 Tx watt	24.13	24.22	24.27	24.50	21.13	21.22	21.27	21.50
EDGE 1 Tx watt	23.57	22.24	21.58	21.00	18.57	18.24	18.58	17.00
EDGE 2 Tx watt	24.23	24.27	24.33	24.00	18.23	18.27	18.33	19.00
EDGE 3 Tx watt	22.88	22.55	22.77	23.00	18.42	18.20	18.51	18.74
EDGE 4 Tx watt	20.30	20.20	20.54	21.00	17.30	17.20	17.34	18.50

Band	WCDMA IV_Ant 2			Turn-up Limit (dBm)	WCDMA IV_Ant 1			Turn-up Limit (dBm)
	9602	9600	9638		9602	9600	9638	
TX Channel	9602	9600	9638	9602	9600	9638	9602	9600
Rx Channel	9602	9600	9638	9602	9600	9638	9602	9600
Frequency (MHz)	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2
AMR 12.2kops	22.94	22.99	22.99	24.00	22.13	22.35	22.19	24.00
RNC 12.2kops	22.94	22.12	22.99	24.00	22.14	22.38	22.21	24.00
HSPA Subclass-1	21.90	22.00	22.11	22.00	21.00	21.40	21.00	23.00
HSPA Subclass-2	21.95	22.06	22.11	22.00	21.07	21.50	21.04	23.00
HSPA Subclass-3	21.44	21.53	21.59	22.00	20.54	20.93	20.50	22.50
HSPA Subclass-4	21.43	21.53	21.54	22.00	20.57	20.97	20.57	22.50
DCH-HSPA Subclass-1	21.88	21.58	22.00	22.00	21.00	21.47	21.00	23.00
DCH-HSPA Subclass-2	21.93	22.04	22.09	22.00	21.07	21.50	21.04	23.00
DCH-HSPA Subclass-3	21.42	21.51	21.57	22.00	20.44	20.93	20.50	22.50
DCH-HSPA Subclass-4	21.41	21.51	21.62	22.00	20.37	20.97	20.57	22.50
HSPA Subclass-1	21.94	22.01	22.17	22.00	21.08	21.48	21.07	23.00
HSPA Subclass-2	20.00	19.99	20.18	21.00	18.18	18.47	18.00	21.00
HSPA Subclass-3	21.02	21.03	21.16	22.00	20.11	20.48	20.08	22.00
HSPA Subclass-4	19.99	20.04	20.09	21.00	18.13	18.50	18.08	21.00
HSPA Subclass-5	22.00	22.00	22.20	23.00	21.18	21.50	21.07	23.00

Band	WCDMA IV_Ant 0			Turn-up Limit (dBm)	WCDMA IV_Ant 1			Turn-up Limit (dBm)
	4152	4182	4233		4152	4182	4233	
TX Channel	4152	4182	4233	4152	4182	4233	4152	4182
Rx Channel	4152	4182	4233	4152	4182	4233	4152	4182
Frequency (MHz)	836.4	836.4	836.4	836.4	836.4	836.4	836.4	836.4
AMR 12.2kops	22.93	22.94	22.98	24.00	22.88	22.97	22.95	24.00
RNC 12.2kops	22.96	22.07	22.89	24.00	22.88	23.00	22.96	24.00
HSPA Subclass-1	21.92	21.88	21.80	22.00	21.87	21.95	21.86	23.00
HSPA Subclass-2	21.95	21.91	21.88	22.00	21.92	21.98	21.86	23.00
HSPA Subclass-3	21.45	21.59	21.38	22.00	21.44	21.46	21.45	22.50
HSPA Subclass-4	21.48	21.59	21.38	22.00	21.38	21.47	21.45	22.50
DCH-HSPA Subclass-1	21.92	21.85	21.86	22.00	21.94	21.92	21.93	23.00
DCH-HSPA Subclass-2	21.40	21.48	21.67	22.00	21.46	21.46	21.43	22.50
DCH-HSPA Subclass-3	21.42	21.35	21.32	22.00	21.41	21.46	21.42	22.50
DCH-HSPA Subclass-4	21.45	21.38	21.33	22.00	21.35	21.44	21.42	22.50
HSPA Subclass-1	20.99	21.03	21.82	22.00	21.87	21.85	21.92	23.00
HSPA Subclass-2	19.85	19.87	19.88	21.00	18.81	18.94	18.92	21.00
HSPA Subclass-3	20.75	20.90	20.84	22.00	20.80	20.91	20.92	22.00
HSPA Subclass-4	19.95	19.93	19.85	21.00	18.97	18.90	18.91	21.00
HSPA Subclass-5	21.90	21.96	21.80	23.00	21.80	21.90	21.80	23.00

Band	WCDMA IV_Ant 2			Turn-up Limit (dBm)	WCDMA IV_Ant 1			Turn-up Limit (dBm)
	1812	1813	1813		1812	1813	1813	
TX Channel	1812	1813	1813	1812	1813	1813	1812	1813
Rx Channel	1812	1813	1813	1812	1813	1813	1812	1813
Frequency (MHz)	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2
AMR 12.2kops	22.95	22.98	22.73	24.00	22.12	22.37	22.37	24.00
RNC 12.2kops	22.87	22.80	22.76	24.00	22.14	22.38	22.34	24.00
HSPA Subclass-1	21.86	21.72	21.88	22.00	21.33	21.11	21.38	23.00
HSPA Subclass-2	22.00	21.78	21.84	22.00	21.37	21.11	21.35	23.00
HSPA Subclass-3	21.53	21.20	21.47	22.50	20.55	20.80	20.83	22.50
HSPA Subclass-4	21.48	21.20	21.46	22.50	20.34	20.84	20.84	22.50
DCH-HSPA Subclass-1	21.94	21.70	21.84	23.00	21.33	21.11	21.30	23.00
DCH-HSPA Subclass-2	21.98	21.74	21.92	23.00	21.37	21.11	21.35	23.00
DCH-HSPA Subclass-3	21.81	21.21	21.45	22.50	20.56	20.80	20.81	22.50
DCH-HSPA Subclass-4	21.48	21.21	21.43	22.50	20.84	20.81	20.84	22.50
HSPA Subclass-1	21.07	21.80	21.99	23.00	21.33	21.10	21.33	23.00
HSPA Subclass-2	20.00	19.71	19.91	21.00	18.22	18.99	18.92	21.00
HSPA Subclass-3	20.99	20.80	21.00	22.00	20.96	20.11	20.34	22.00
HSPA Subclass-4	18.99	18.75	18.93	21.00	18.30	18.90	18.38	21.00
HSPA Subclass-5	22.00	21.80	22.00	23.00	21.40	21.10	21.30	23.00



n2_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Low Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				1860	1860	1900			
20	PUSC	1	1	22.74	22.68	22.71			
20	PUSC	1	53	22.67	22.60	22.65		24.0	0.0
20	PUSC	1	104	22.60	22.56	22.57			
20	PUSC	50	0	22.62	22.57	22.61		24.0	0.0
20	PUSC	50	28	22.65	22.59	22.65		24.0	0.0
20	PUSC	50	56	22.66	22.60	22.61		24.0	0.0
20	PUSC	100	0	22.67	22.59	22.61		24.0	0.0
20	QPSK	1	1	22.76	22.61	22.73			
20	QPSK	1	53	22.72	22.70	22.71		24.0	0.0
20	QPSK	1	104	22.70	22.72	22.74			
20	QPSK	50	0	22.69	22.62	22.65		24.0	0.0
20	QPSK	50	28	22.68	22.71	22.69		24.0	0.0
20	QPSK	50	56	22.81	22.56	22.59		24.0	0.0
20	QPSK	100	0	22.67	22.70	22.65		24.0	0.0
20	16QAM	1	1	22.74	22.68	22.71		24.0	0.0
20	16QAM	1	1	21.88	21.80	21.85		22.0	2.0
20	256QAM	1	1	20.03	19.96	20.00		21.0	3.0
Channel									
Frequency (MHz)				1875.5	1865	1902.5			
15	QPSK	1	1	22.73	22.70	22.71		24.0	0.0
Channel									
Frequency (MHz)				1875.5	1865	1902.5			
10	QPSK	1	1	22.68	22.58	22.67		24.0	0.0
Channel									
Frequency (MHz)				1862.5	1860	1907.5			
5	QPSK	1	1	22.65	22.60	22.62		24.0	0.0

n2_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				1860	1860	1900			
20	PUSC	1	1	22.51	22.43	22.27			
20	PUSC	1	53	22.46	22.37	22.21		24.0	0.0
20	PUSC	1	104	22.38	22.27	22.13			
20	PUSC	50	0	22.33	22.26	22.10		23.5	0.5
20	PUSC	50	28	22.29	22.23	22.09		24.0	0.0
20	PUSC	50	56	22.33	22.27	22.10		23.5	0.5
20	PUSC	100	0	22.38	22.30	22.13		23.5	0.5
20	QPSK	1	1	22.51	22.35	22.27			
20	QPSK	1	53	22.46	22.40	22.21		24.0	0.0
20	QPSK	1	104	22.38	22.31	22.17			
20	QPSK	50	0	22.16	22.06	21.92		23.0	1.0
20	QPSK	50	28	22.10	22.01	22.11		24.0	0.0
20	QPSK	50	56	22.01	21.92	21.76		23.0	1.0
20	QPSK	100	0	22.05	22.07	21.82		23.0	1.0
20	16QAM	1	1	22.51	22.42	22.36		23.0	1.0
20	16QAM	1	1	20.69	20.63	20.44		21.5	2.5
20	256QAM	1	1	18.62	18.44	18.30		19.5	4.5
Channel									
Frequency (MHz)				1875.5	1865	1902.5			
15	QPSK	1	1	22.41	22.30	22.14		24.0	0.0
Channel									
Frequency (MHz)				1875.5	1865	1902.5			
10	QPSK	1	1	22.45	22.83	22.21		24.0	0.0
Channel									
Frequency (MHz)				1862.5	1860	1907.5			
5	QPSK	1	1	22.50	22.32	22.21		24.0	0.0

n2_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel									
Frequency (MHz)				1860	1860	1900			
20	PUSC	1	1	22.14	22.09	22.08			
20	PUSC	1	53	22.06	22.04	22.09		24.0	0.0
20	PUSC	1	104	22.10	22.07	22.04			
20	PUSC	50	0	22.02	22.09	22.08		23.5	0.5
20	PUSC	50	28	22.01	22.08	22.04		24.0	0.0
20	PUSC	50	56	22.01	22.08	22.05		23.5	0.5
20	PUSC	100	0	22.07	22.02	22.09		23.5	0.5
20	QPSK	1	1	22.10	22.25	22.24			
20	QPSK	1	53	22.18	22.14	22.22		24.0	0.0
20	QPSK	1	104	22.10	22.15	22.12			
20	QPSK	50	0	22.12	22.18	22.12		23.0	1.0
20	QPSK	50	28	22.16	22.22	22.15		24.0	0.0
20	QPSK	50	56	22.14	22.17	22.13		23.0	1.0
20	QPSK	100	0	22.12	22.19	22.14		23.0	1.0
20	16QAM	1	1	22.19	22.16	22.01		23.0	1.0
20	16QAM	1	1	20.81	20.58	20.43		21.5	2.5
20	256QAM	1	1	18.58	18.53	18.40		19.5	4.5
Channel									
Frequency (MHz)				1875.5	1865	1902.5			
15	QPSK	1	1	22.13	22.16	22.11		24.0	0.0
Channel									
Frequency (MHz)				1875.5	1865	1902.5			
10	QPSK	1	1	22.13	22.18	22.11		24.0	0.0
Channel									
Frequency (MHz)				1862.5	1860	1907.5			
5	QPSK	1	1	22.12	22.12	22.10		24.0	0.0



n5_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	PI4 BPSK	1	1	22.80	22.82	22.77		
20	PI4 BPSK	1	53	22.87	22.84	22.88	24.0	0.0
20	PI4 BPSK	1	104	22.56	22.55	22.47		
20	PI4 BPSK	50	0	22.71	22.71	22.83	23.5	0.5
20	PI4 BPSK	50	28	22.68	22.66	22.68	24.0	0.0
20	PI4 BPSK	50	56	22.50	22.50	22.54		
20	PI4 BPSK	100	0	22.72	22.73	22.87	23.5	0.5
20	QPSK	1	1	22.50	22.54	22.77		
20	QPSK	1	50	22.72	22.68	22.84	24.0	0.0
20	QPSK	1	104	22.58	22.58	22.55		
20	QPSK	50	0	22.70	22.74	22.70	23.0	1.0
20	QPSK	50	28	22.75	22.70	22.75	24.0	0.0
20	QPSK	50	56	22.80	22.58	22.54	23.0	1.0
20	QPSK	100	0	22.81	22.57	22.84		
20	16QAM	1	1	22.51	22.50	22.44	23.0	1.0
20	16QAM	1	1	21.42	21.42	21.36	21.5	2.5
20	256QAM	1	1	19.33	19.33	19.27	19.5	4.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.70	22.71	22.83	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.70	22.67	22.69	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.72	22.73	22.87	24.0	0.0

n5_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	PI4 BPSK	1	1	22.50	22.50	22.56		
20	PI4 BPSK	1	53	22.61	22.49	22.50	24.0	0.0
20	PI4 BPSK	1	104	22.20	22.46	22.44		
20	PI4 BPSK	50	0	22.50	22.56	22.54	23.5	0.5
20	PI4 BPSK	50	28	22.50	22.54	22.50	24.0	0.0
20	PI4 BPSK	50	56	22.52	22.47	22.44		
20	PI4 BPSK	100	0	22.53	22.49	22.49	23.5	0.5
20	QPSK	1	1	22.50	22.63	22.51		
20	QPSK	1	50	22.50	22.56	22.50	24.0	0.0
20	QPSK	1	104	22.58	22.52	22.50		
20	QPSK	50	0	22.50	22.63	22.53	23.0	1.0
20	QPSK	50	28	22.57	22.60	22.54	24.0	0.0
20	QPSK	50	56	22.47	22.44	22.43	23.0	1.0
20	QPSK	100	0	22.47	22.46	22.43		
20	16QAM	1	1	20.50	20.50	20.50	23.0	1.0
20	16QAM	1	1	20.68	20.67	20.64	21.5	2.5
20	256QAM	1	1	18.05	18.07	18.00	19.5	4.5
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.50	22.47	22.46	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.54	22.40	22.44	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.51	22.43	22.49	24.0	0.0

n7_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI4 BPSK	1	1	23.04	23.13	23.21		
40	PI4 BPSK	1	108	23.14	23.21	23.29	24.0	0.0
40	PI4 BPSK	1	214	23.00	23.16	23.26		
40	PI4 BPSK	108	0	23.09	23.05	23.14	23.5	0.5
40	PI4 BPSK	108	54	23.03	23.12	23.18	24.0	0.0
40	PI4 BPSK	108	108	23.02	23.12	23.19	23.5	0.5
40	PI4 BPSK	216	0	23.04	23.14	23.25		
40	QPSK	1	1	23.17	23.28	23.35		
40	QPSK	1	108	23.16	23.26	23.33	24.0	0.0
40	QPSK	1	214	23.14	23.22	23.32		
40	QPSK	108	0	23.00	23.08	23.14	24.0	0.0
40	QPSK	108	54	23.10	23.33	23.30	24.0	0.0
40	QPSK	108	108	23.04	23.20	23.22	24.0	0.0
40	QPSK	216	0	23.00	23.10	23.09		
40	16QAM	1	1	22.85	22.83	23.01	24.0	0.0
40	16QAM	1	1	21.88	21.74	21.81	22.0	2.0
40	256QAM	1	1	19.84	19.93	20.00	21.0	3.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.04	23.15	23.27	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.06	23.17	23.27	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.10	23.11	23.22	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.10	23.18	23.23	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.00	23.00	23.00	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	23.01	23.09	23.10	24.0	0.0



n7_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.13	23.23	23.21		
40	PI2 BPSK	1	108	23.05	23.17	23.15	24.0	0.0
40	PI2 BPSK	1	214	22.98	23.10	23.18		
40	PI2 BPSK	108	0	22.78	22.86	22.87	23.0	0.5
40	PI2 BPSK	108	54	23.05	23.15	23.13	24.0	0.0
40	PI2 BPSK	108	108	22.78	22.90	22.86		
40	PI2 BPSK	216	0	22.88	22.81	22.77	23.5	0.5
40	QPSK	1	1	23.14	23.26	23.22		
40	QPSK	1	108	23.06	23.18	23.16	24.0	0.0
40	QPSK	1	214	22.97	23.20	23.21		
40	QPSK	108	0	22.39	22.50	22.48	23.0	1.0
40	QPSK	108	54	23.10	23.20	23.17	24.0	0.0
40	QPSK	108	108	22.28	22.37	22.36	23.0	1.0
40	QPSK	216	0	22.35	22.46	22.43		
40	16QAM	1	1	23.13	22.95	22.97	23.0	1.0
40	16QAM	1	1	20.60	20.70	20.67	21.5	2.5
40	256QAM	1	1	19.07	19.16	19.13	19.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.15	25.35	25.55		
30	QPSK	1	1	23.83	23.16	23.11	24.0	0.0
30	QPSK	1	1	22.55	22.00	21.50		
30	QPSK	1	1	25.12.5	25.35	25.57.5		
25	QPSK	1	1	22.87	23.11	23.11	24.0	0.0
25	QPSK	1	1	20.00	20.00	20.00	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.30	23.18	23.08	24.0	0.0
20	QPSK	1	1	21.00	21.12	21.13	24.0	0.0
20	QPSK	1	1	20.00	20.00	20.00	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.07.5	25.35	25.62.5		
15	QPSK	1	1	23.00	23.12	23.13	24.0	0.0
15	QPSK	1	1	21.00	21.12	21.13	24.0	0.0
15	QPSK	1	1	20.00	20.00	20.00	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.00	23.14	23.15	24.0	0.0
15	QPSK	1	1	20.00	20.00	20.00	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.00	25.35	25.67.5		
5	QPSK	1	1	23.01	23.19	23.15	24.0	0.0

n7_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.38	22.47	22.41		
40	PI2 BPSK	1	108	22.44	22.53	22.45	24.0	0.0
40	PI2 BPSK	1	214	22.36	22.48	22.37		
40	PI2 BPSK	108	0	22.36	22.48	22.39	23.5	0.5
40	PI2 BPSK	108	54	22.31	22.39	22.35	24.0	0.0
40	PI2 BPSK	108	108	22.36	22.41	22.32		
40	PI2 BPSK	216	0	22.34	22.43	22.39	23.5	0.5
40	QPSK	1	1	22.45	22.55	22.47		
40	QPSK	1	108	22.42	22.21	22.45	24.0	0.0
40	QPSK	1	214	22.45	22.54	22.37		
40	QPSK	108	0	22.12	22.21	22.17	23.0	1.0
40	QPSK	108	54	22.33	22.43	22.32	24.0	0.0
40	QPSK	108	108	22.00	22.11	22.03	23.0	1.0
40	QPSK	216	0	22.00	22.12	22.05		
40	16QAM	1	1	22.18	22.27	22.23	23.0	1.0
40	16QAM	1	1	20.48	20.57	20.51	21.5	2.5
40	256QAM	1	1	18.58	18.69	18.64	19.5	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.15	23.35	23.55		
30	QPSK	1	1	22.37	22.41	22.40	24.0	0.0
30	QPSK	1	1	22.00	22.00	22.00	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	25.12.5	25.35	25.57.5		
25	QPSK	1	1	22.41	22.44	22.34	24.0	0.0
25	QPSK	1	1	20.00	20.00	20.00	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.34	22.44	22.39	24.0	0.0
20	QPSK	1	1	20.00	20.00	20.00	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	25.07.5	25.35	25.62.5		
15	QPSK	1	1	22.00	22.43	22.33	24.0	0.0
15	QPSK	1	1	20.00	20.00	20.00	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.00	23.14	23.15	24.0	0.0
15	QPSK	1	1	20.00	20.00	20.00	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	25.00	25.35	25.67.5		
5	QPSK	1	1	22.37	22.48	22.30	24.0	0.0

n66_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.81	22.73	22.57		
40	PI2 BPSK	1	108	22.75	22.88	22.51	24.0	0.0
40	PI2 BPSK	1	214	22.78	22.72	22.56		
40	PI2 BPSK	108	0	22.69	22.64	22.49	23.5	0.5
40	PI2 BPSK	108	54	22.65	22.38	22.43	24.0	0.0
40	PI2 BPSK	108	108	22.71	22.61	22.43		
40	PI2 BPSK	216	0	22.73	22.86	22.47	23.5	0.5
40	QPSK	1	1	22.77	22.85	22.57		
40	QPSK	1	108	22.70	22.71	22.56	24.0	0.0
40	QPSK	1	214	22.78	22.88	22.53		
40	QPSK	108	0	22.70	22.70	22.55	23.0	1.0
40	QPSK	108	54	22.71	22.52	22.56	24.0	0.0
40	QPSK	108	108	22.73	22.64	22.44	23.0	1.0
40	QPSK	216	0	22.64	22.70	22.58		
40	16QAM	1	1	22.73	22.68	22.48	23.0	1.0
40	16QAM	1	1	21.75	21.66	21.50	22.0	2.0
40	256QAM	1	1	20.34	20.28	20.08	21.0	3.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.71	22.67	22.48	24.0	0.0
30	QPSK	1	1	20.00	20.00	20.00	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.70	22.70	22.43	24.0	0.0
20	QPSK	1	1	20.00	20.00	20.00	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.80	22.83	22.46	24.0	0.0
15	QPSK	1	1	20.00	20.00	20.00	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.70	22.72	22.44	24.0	0.0
10	QPSK	1	1	20.00	20.00	20.00	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.70	22.68	22.42	24.0	0.0



n66_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.	LU
Channel				344000	349000	350000	MPR (dB)
Frequency (MHz)							
40	PLO-BPSK	1	1	22.77	22.79	22.81	
40	PLO-BPSK	1	108	22.70	22.72	22.87	24.0
40	PLO-BPSK	1	214	22.62	22.65	22.80	
40	PLO-BPSK	108	4	22.73	22.73	22.87	23.5
40	PLO-BPSK	108	54	22.63	22.66	22.47	24.0
40	PLO-BPSK	108	108	22.65	22.65	22.40	
40	PLO-BPSK	216	0	22.71	22.75	22.87	23.5
40	QPSK	1	1	22.87	22.82	22.75	
40	QPSK	1	108	22.71	22.74	22.59	24.0
40	QPSK	1	214	22.58	22.55	22.38	
40	QPSK	108	0	22.43	22.47	22.32	23.0
40	QPSK	108	54	22.71	22.75	22.85	24.0
40	QPSK	108	108	22.33	22.33	22.14	23.0
40	QPSK	216	0	22.35	22.40	22.23	
40	16QAM	1	1	22.41	22.45	22.38	23.0
40	16QAM	1	1	20.97	21.01	20.83	21.5
40	256QAM	1	1	19.21	19.24	19.00	19.5
Channel				355000	360000	361000	MPR (dB)
Frequency (MHz)							
30	QPSK	1	1	22.70	22.66	22.49	24.0
Channel				361000	366000	367000	MPR (dB)
Frequency (MHz)							
20	QPSK	1	1	22.71	22.70	22.57	24.0
Channel				367000	369000	369500	MPR (dB)
Frequency (MHz)							
15	QPSK	1	1	22.85	22.71	22.53	24.0
Channel				369500	369500	369500	MPR (dB)
Frequency (MHz)							
10	QPSK	1	1	22.70	22.71	22.59	24.0
Channel				369500	369500	369500	MPR (dB)
Frequency (MHz)							
5	QPSK	1	1	22.60	22.59	22.59	24.0

n66_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.	LU
Channel				344000	349000	350000	MPR (dB)
Frequency (MHz)							
40	PLO-BPSK	1	1	22.41	22.45	22.28	
40	PLO-BPSK	1	108	22.47	22.49	22.32	24.0
40	PLO-BPSK	1	214	22.42	22.43	22.27	
40	PLO-BPSK	108	0	22.07	22.08	21.89	23.5
40	PLO-BPSK	108	54	22.47	22.50	22.24	24.0
40	PLO-BPSK	108	108	22.03	22.05	21.87	23.5
40	PLO-BPSK	216	0	22.08	22.10	21.90	23.5
40	QPSK	1	1	22.49	22.53	22.37	
40	QPSK	1	108	22.43	22.48	22.27	24.0
40	QPSK	1	214	22.48	22.50	22.30	
40	QPSK	108	0	21.58	21.59	21.41	23.0
40	QPSK	108	54	22.46	22.47	22.30	24.0
40	QPSK	108	108	21.43	21.48	21.27	23.0
40	QPSK	216	0	21.55	21.59	21.38	
40	16QAM	1	1	21.95	21.91	21.21	23.0
40	16QAM	1	1	19.95	20.01	19.81	21.5
40	256QAM	1	1	18.34	18.35	18.15	19.5
Channel				360000	360000	360000	MPR (dB)
Frequency (MHz)							
30	QPSK	1	1	22.35	22.38	22.27	24.0
Channel				360000	360000	360000	MPR (dB)
Frequency (MHz)							
20	QPSK	1	1	22.34	22.40	22.31	24.0
Channel				360000	360000	360000	MPR (dB)
Frequency (MHz)							
15	QPSK	1	1	22.39	22.41	22.24	24.0
Channel				360000	360000	360000	MPR (dB)
Frequency (MHz)							
10	QPSK	1	1	22.44	22.39	22.24	24.0
Channel				360000	360000	360000	MPR (dB)
Frequency (MHz)							
5	QPSK	1	1	22.40	22.47	22.20	24.0



n38_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel				19800	19900	20000	
Frequency (MHz)							
40	Pi2BPSK	1	1	22.98	22.99	23.00	24.0
40	Pi2BPSK	1	53	22.87	22.88	22.94	24.0
40	Pi2BPSK	1	104	22.74	22.72	22.79	24.0
40	Pi2BPSK	50	0	22.92	22.91	22.97	23.5
40	Pi2BPSK	50	24	22.90	22.89	22.93	24.0
40	Pi2BPSK	50	56	22.78	22.76	22.81	23.5
40	Pi2BPSK	100	0	22.81	22.81	22.87	24.0
40	QPSK	1	1	22.99	22.99	23.02	24.0
40	QPSK	1	53	22.88	22.88	22.99	24.0
40	QPSK	1	104	22.71	22.72	22.75	24.0
40	QPSK	50	0	22.90	22.92	22.91	24.0
40	QPSK	50	24	22.89	22.89	22.93	24.0
40	QPSK	50	56	22.79	22.78	22.84	24.0
40	QPSK	100	0	22.83	22.80	22.85	24.0
40	BQAM	1	1	22.89	22.86	22.86	24.0
40	BQAM	1	1	21.83	21.84	21.91	23.0
40	BQAM	1	1	20.12	20.08	20.18	23.0
Channel				21000	21000	21000	MPR (dB)
Frequency (MHz)							
30	QPSK	1	1	22.91	22.85	22.88	24.0
Channel				21000	21000	21000	MPR (dB)
Frequency (MHz)							
20	QPSK	1	1	22.90	22.85	22.87	24.0
Channel				21000	21000	21000	MPR (dB)
Frequency (MHz)							
15	QPSK	1	1	22.83	22.80	22.85	24.0
Channel				21000	21000	21000	MPR (dB)
Frequency (MHz)							
10	QPSK	1	1	22.88	22.91	22.91	24.0

n38_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel				19800	19900	20000	
Frequency (MHz)							
40	Pi2BPSK	1	1	23.03	23.16	23.15	24.0
40	Pi2BPSK	1	53	23.05	23.14	23.09	24.0
40	Pi2BPSK	1	104	22.90	22.99	22.98	24.0
40	Pi2BPSK	50	0	22.73	22.81	22.80	23.5
40	Pi2BPSK	50	24	22.80	22.92	22.86	24.0
40	Pi2BPSK	50	56	22.84	22.72	22.70	23.5
40	Pi2BPSK	100	0	22.87	22.89	22.83	24.0
40	QPSK	1	1	23.00	23.17	23.13	24.0
40	QPSK	1	53	23.09	23.13	23.11	24.0
40	QPSK	1	104	22.92	23.03	22.97	24.0
40	QPSK	50	0	22.32	22.44	22.43	24.0
40	QPSK	50	24	22.39	22.15	22.13	24.0
40	QPSK	50	56	22.25	22.33	22.27	24.0
40	QPSK	100	0	22.29	22.42	22.39	23.0
40	BQAM	1	1	22.27	22.36	22.34	23.0
40	BQAM	1	1	20.67	20.79	20.73	21.5
40	BQAM	1	1	19.11	19.24	19.22	19.5
Channel				21000	21000	21000	MPR (dB)
Frequency (MHz)							
30	QPSK	1	1	23.01	23.10	23.04	24.0
Channel				21000	21000	21000	MPR (dB)
Frequency (MHz)							
20	QPSK	1	1	22.91	23.02	23.08	24.0
Channel				21000	21000	21000	MPR (dB)
Frequency (MHz)							
15	QPSK	1	1	23.00	23.06	22.99	24.0
Channel				21000	21000	21000	MPR (dB)
Frequency (MHz)							
10	QPSK	1	1	23.00	23.12	23.05	24.0



n38_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	22.22	22.22	22.30	24.0
40	PI2 BPSK	1	63	22.12	22.20	22.23	24.0
40	PI2 BPSK	1	104	22.18	22.26	22.32	24.0
40	PI2 BPSK	50	0	22.19	22.24	22.25	23.5
40	PI2 BPSK	50	28	22.15	22.24	22.26	24.0
40	PI2 BPSK	50	56	21.97	22.05	22.08	23.5
40	PI2 BPSK	100	0	22.00	22.10	22.14	24.0
40	QPSK	1	1	22.21	22.21	22.30	24.0
40	QPSK	1	63	22.08	22.14	22.17	24.0
40	QPSK	1	104	22.14	22.22	22.21	24.0
40	QPSK	50	0	22.09	22.14	22.14	24.0
40	QPSK	50	28	22.09	22.09	22.12	24.0
40	QPSK	100	0	21.63	21.75	21.72	23.0
40	BQAM	1	1	21.70	21.70	21.82	23.0
40	BQAM	1	1	20.14	20.21	20.22	21.5
40	BQAM	1	1	18.22	18.28	18.28	19.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.14	22.21	22.15	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.11	22.24	22.25	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.16	22.18	22.25	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.16	22.17	22.25	24.0

FCC_n41_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	22.96	22.92	22.90	24.0
100	PI2 BPSK	1	137	22.82	22.88	22.88	24.0
100	PI2 BPSK	1	271	22.83	22.86	22.86	24.0
100	PI2 BPSK	135	0	22.98	22.91	22.89	23.5
100	PI2 BPSK	135	66	22.92	22.87	22.88	24.0
100	PI2 BPSK	135	133	22.83	22.86	22.83	23.5
100	PI2 BPSK	270	0	22.90	22.85	22.84	24.0
100	QPSK	1	1	23.13	23.14	23.05	24.0
100	QPSK	1	137	23.19	23.06	23.04	24.0
100	QPSK	1	271	23.15	23.07	23.06	24.0
100	QPSK	135	0	22.98	22.96	22.87	24.0
100	QPSK	135	66	22.92	22.92	22.88	24.0
100	QPSK	135	133	22.98	22.92	22.88	24.0
100	QPSK	270	0	22.93	22.93	22.90	24.0
100	BQAM	1	1	23.09	23.04	23.02	24.0
100	BQAM	1	1	22.00	21.93	21.93	23.0
100	BQAM	1	1	20.21	20.15	20.15	21.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.06	23.02	22.94	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.00	22.99	22.95	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.00	23.03	22.91	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.00	22.95	22.92	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.09	22.97	22.94	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.99	22.98	22.98	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.03	22.97	22.92	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.03	22.98	23.00	24.0



Par27Q n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mod. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.09	23.09				
100	PI2 BPSK	1	137	23.18			24.0	0.0	
100	PI2 BPSK	1	271	23.17					
100	PI2 BPSK	135	0	23.02			23.5	0.5	
100	PI2 BPSK	135	66	23.07			24.0	0.0	
100	PI2 BPSK	135	135	23.08					
100	PI2 BPSK	270	0	23.00			23.5	0.5	
100	QPSK	1	1	23.23					
100	QPSK	1	137	23.21			24.0	0.0	
100	QPSK	1	271	23.20					
100	QPSK	135	0	23.06					
100	QPSK	135	66	23.12					
100	QPSK	135	135	23.09			24.0	0.0	
100	QPSK	270	0	23.00			24.0	0.0	
100	16QAM	1	1	23.22			24.0	0.0	
100	64QAM	1	1	23.02			23.0	1.0	
100	256QAM	1	1	23.03			21.0	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.13	23.14	23.10	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.08	23.09	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.13	23.12	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.18	23.16	23.07	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.11	23.10	23.15	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.12	23.12	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.12	23.17	23.06	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.07	23.16	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.14	23.17	23.10	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.08	23.10	23.10	24.0	0.0	

Par27Q n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mod. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.99	20.99				
100	PI2 BPSK	1	137	20.85					0.0
100	PI2 BPSK	1	271	20.87					
100	PI2 BPSK	135	0	20.91			22.0	0.0	
100	PI2 BPSK	135	66	20.85			22.0	0.0	
100	PI2 BPSK	135	135	20.86			20.87	0.0	
100	PI2 BPSK	270	0	20.91			20.91	0.0	
100	QPSK	1	1	21.00					
100	QPSK	1	137	20.94					22.0
100	QPSK	1	271	20.89					
100	QPSK	135	0	20.83					
100	QPSK	135	66	20.85					
100	QPSK	135	135	20.90			22.0	0.0	
100	QPSK	270	0	20.78			22.0	0.0	
100	16QAM	1	1	20.95			22.0	0.0	
100	64QAM	1	1	20.92			20.5	1.5	
100	256QAM	1	1	20.83			17.77	18.5	3.5
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.93	20.99	20.89	20.89	22.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.92	20.88	20.94	20.94	22.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.96	20.87	20.95	20.95	22.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.95	20.93	20.86	20.86	22.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.96	20.90	20.85	20.85	22.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.94	20.88	20.85	20.85	22.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.89	20.95	20.85	20.85	22.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.89	20.92	20.87	20.87	22.0	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.96	20.95	20.95	20.95	22.0	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.87	20.87	20.86	20.86	22.0	0.0



Reduced Power Mode for DSI 2

Table with columns: GSM900_Air 0, TX Channel, Burst Average Power (dBm), Turn-up Limit (dBm), Frac. Average Power (dBm), Turn-up Limit (dBm). Rows include TX Channel, Frequency (MHz), GSM 1 Tx. Hst, GPRS 1 Tx. Hst, GPRS 2 Tx. Hst, GPRS 3 Tx. Hst, EDGE 1 Tx. Hst, EDGE 2 Tx. Hst, EDGE 3 Tx. Hst, EDGE 4 Tx. Hst.

Table with columns: GSM1900_Air 2, TX Channel, Burst Average Power (dBm), Turn-up Limit (dBm), Frac. Average Power (dBm), Turn-up Limit (dBm). Rows include TX Channel, Frequency (MHz), GSM 1 Tx. Hst, GPRS 1 Tx. Hst, GPRS 2 Tx. Hst, GPRS 3 Tx. Hst, EDGE 1 Tx. Hst, EDGE 2 Tx. Hst, EDGE 3 Tx. Hst, EDGE 4 Tx. Hst.

Table with columns: Band, WCDMA V. Rev 2, WCDMA V. Rev 1, TX Channel, Burst Average Power (dBm), Turn-up Limit (dBm), Frac. Average Power (dBm), Turn-up Limit (dBm). Rows include TX Channel, Frequency (MHz), AMR 12.2kops, RMC 12.2kops, HSDPA Subcar-1, HSDPA Subcar-2, HSDPA Subcar-3, HSDPA Subcar-4, DC-HSDPA Subcar-1, DC-HSDPA Subcar-2, DC-HSDPA Subcar-3, DC-HSDPA Subcar-4, HSUPA Subcar-1, HSUPA Subcar-2, HSUPA Subcar-3, HSUPA Subcar-4.

Table with columns: Band, WCDMA V. Rev 2, WCDMA V. Rev 1, TX Channel, Burst Average Power (dBm), Turn-up Limit (dBm), Frac. Average Power (dBm), Turn-up Limit (dBm). Rows include TX Channel, Frequency (MHz), AMR 12.2kops, RMC 12.2kops, HSDPA Subcar-1, HSDPA Subcar-2, HSDPA Subcar-3, HSDPA Subcar-4, DC-HSDPA Subcar-1, DC-HSDPA Subcar-2, DC-HSDPA Subcar-3, DC-HSDPA Subcar-4, HSUPA Subcar-1, HSUPA Subcar-2, HSUPA Subcar-3, HSUPA Subcar-4.

Table with columns: Band, WCDMA V. Rev 2, WCDMA V. Rev 1, TX Channel, Burst Average Power (dBm), Turn-up Limit (dBm), Frac. Average Power (dBm), Turn-up Limit (dBm). Rows include TX Channel, Frequency (MHz), AMR 12.2kops, RMC 12.2kops, HSDPA Subcar-1, HSDPA Subcar-2, HSDPA Subcar-3, HSDPA Subcar-4, DC-HSDPA Subcar-1, DC-HSDPA Subcar-2, DC-HSDPA Subcar-3, DC-HSDPA Subcar-4, HSUPA Subcar-1, HSUPA Subcar-2, HSUPA Subcar-3, HSUPA Subcar-4.

Table with columns: Band, WCDMA V. Rev 2, WCDMA V. Rev 1, TX Channel, Burst Average Power (dBm), Turn-up Limit (dBm), Frac. Average Power (dBm), Turn-up Limit (dBm). Rows include TX Channel, Frequency (MHz), AMR 12.2kops, RMC 12.2kops, HSDPA Subcar-1, HSDPA Subcar-2, HSDPA Subcar-3, HSDPA Subcar-4, DC-HSDPA Subcar-1, DC-HSDPA Subcar-2, DC-HSDPA Subcar-3, DC-HSDPA Subcar-4, HSUPA Subcar-1, HSUPA Subcar-2, HSUPA Subcar-3, HSUPA Subcar-4.



Band 26(FCC)_Ant 0

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Mids Ch / Freq, Power High Ch / Freq, Tuning Int (dB), MPR (dB). Includes sub-headers for Channels 20865-21163 and 20940-21238.

Band 26(FCC)_Ant 1

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Mids Ch / Freq, Power High Ch / Freq, Tuning Int (dB), MPR (dB). Includes sub-headers for Channels 20865-21163 and 20940-21238.

Band 66_Ant 2

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Mids Ch / Freq, Power High Ch / Freq, Tuning Int (dB), MPR (dB). Includes sub-headers for Channels 17372-17670 and 17445-17743.



n2_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1880	1900			
20	Pi4 BPSK	1	1	22.74	22.68	22.71			
20	Pi4 BPSK	1	53	22.67	22.60	22.65	24.0	0.0	
20	Pi4 BPSK	1	104	22.60	22.68	22.72			
20	Pi4 BPSK	50	0	22.62	22.57	22.61	24.0	0.0	
20	Pi4 BPSK	50	28	22.65	22.59	22.65	24.0	0.0	
20	Pi4 BPSK	50	56	22.66	22.60	22.61	24.0	0.0	
20	Pi4 BPSK	100	0	22.67	22.59	22.61	24.0	0.0	
20	QPSK	1	1	22.76	22.61	22.71			
20	QPSK	1	53	22.72	22.70	22.71	24.0	0.0	
20	QPSK	1	104	22.70	22.72	22.74			
20	QPSK	50	0	22.69	22.62	22.65	24.0	0.0	
20	QPSK	50	28	22.68	22.71	22.69	24.0	0.0	
20	QPSK	50	56	22.81	22.58	22.59	24.0	0.0	
20	QPSK	100	0	22.67	22.70	22.65	24.0	0.0	
20	BQAM	1	1	22.74	22.68	22.74	24.0	0.0	
20	BQAM	1	1	21.88	21.80	21.85	22.0	2.0	
20	25GQAM	1	1	20.08	19.96	20.00	21.0	3.0	
Channel									
Frequency (MHz)				1870.5	1890	1902.5	(dBm)	(dB)	
15	QPSK	1	1	22.73	22.70	22.73	24.0	0.0	
Channel									
Frequency (MHz)				1855	1890	1905	(dBm)	(dB)	
10	QPSK	1	1	22.68	22.58	22.67	24.0	0.0	
Channel									
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	22.65	22.60	22.62	24.0	0.0	

n2_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1848	1860	1860			
20	Pi4 BPSK	1	1	15.48	15.48	15.47			
20	Pi4 BPSK	1	53	15.42	15.44	15.48	17.0	0.0	
20	Pi4 BPSK	1	104	15.41	15.56	15.35			
20	Pi4 BPSK	50	0	15.44	15.52	15.36	17.0	0.0	
20	Pi4 BPSK	50	28	15.48	15.46	15.42	17.0	0.0	
20	Pi4 BPSK	50	56	15.49	15.54	15.41	17.0	0.0	
20	Pi4 BPSK	100	0	15.41	15.48	15.48	17.0	0.0	
20	QPSK	1	1	15.52	15.59	15.50			
20	QPSK	1	53	15.50	15.54	15.47	17.0	0.0	
20	QPSK	1	104	15.51	15.55	15.38			
20	QPSK	50	0	15.49	15.55	15.45	17.0	0.0	
20	QPSK	50	28	15.52	15.52	15.38	17.0	0.0	
20	QPSK	50	56	15.38	15.46	15.39	17.0	0.0	
20	QPSK	100	0	15.43	15.46	15.43	17.0	0.0	
20	BQAM	1	1	15.45	15.59	15.35	17.0	0.0	
20	BQAM	1	1	15.38	15.47	15.48	17.0	0.0	
20	25GQAM	1	1	15.20	15.40	15.45	17.0	0.0	
Channel									
Frequency (MHz)				1850.5	1870	1892.5	(dBm)	(dB)	
15	QPSK	1	1	15.40	15.51	15.46	17.0	0.0	
Channel									
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	15.45	15.46	15.37	17.0	0.0	
Channel									
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	15.45	15.48	15.43	17.0	0.0	

n2_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1880	1900			
20	Pi4 BPSK	1	1	22.14	22.09	22.09			
20	Pi4 BPSK	1	53	22.06	22.04	22.09	24.0	0.0	
20	Pi4 BPSK	1	104	22.10	22.07	22.04			
20	Pi4 BPSK	50	0	22.02	22.09	22.05	23.5	0.5	
20	Pi4 BPSK	50	28	22.01	22.08	22.04	24.0	0.0	
20	Pi4 BPSK	50	56	22.01	22.08	22.05	23.5	0.5	
20	Pi4 BPSK	100	0	22.07	22.02	22.09	23.5	0.5	
20	QPSK	1	1	22.10	22.25	22.25			
20	QPSK	1	53	22.15	22.14	22.22	24.0	0.0	
20	QPSK	1	104	22.10	22.15	22.12			
20	QPSK	50	0	22.12	22.18	22.12	23.0	1.0	
20	QPSK	50	28	22.15	22.22	22.15	24.0	0.0	
20	QPSK	50	56	22.14	22.17	22.13	23.0	1.0	
20	QPSK	100	0	22.12	22.19	22.14	23.0	1.0	
20	BQAM	1	1	22.19	22.16	22.01	23.0	1.0	
20	BQAM	1	1	20.81	20.58	20.43	21.5	2.5	
20	25GQAM	1	1	18.88	18.53	18.40	19.5	4.5	
Channel									
Frequency (MHz)				1870.5	1890	1902.5	(dBm)	(dB)	
15	QPSK	1	1	22.13	22.16	22.11	24.0	0.0	
Channel									
Frequency (MHz)				1855	1890	1905	(dBm)	(dB)	
10	QPSK	1	1	22.13	22.18	22.11	24.0	0.0	
Channel									
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	22.12	22.12	22.10	24.0	0.0	



n5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				164800	167500	167800			
20	PI4 BPSK	1	1	22.80	22.82	22.77			
20	PI4 BPSK	1	53	22.87	22.84	22.88	24.0	0.0	
20	PI4 BPSK	1	104	22.96	22.95	22.97			
20	PI4 BPSK	50	0	22.71	22.71	22.83	23.5	0.5	
20	PI4 BPSK	50	28	22.68	22.66	22.68	24.0	0.0	
20	PI4 BPSK	50	56	22.59	22.59	22.54			
20	PI4 BPSK	100	0	22.72	22.73	22.87	23.5	0.5	
20	QPSK	1	1	22.90	22.84	22.77			
20	QPSK	1	53	22.72	22.68	22.84	24.0	0.0	
20	QPSK	1	104	22.58	22.58	22.55			
20	QPSK	50	0	22.70	22.74	22.70	23.0	1.0	
20	QPSK	50	28	22.75	22.70	22.75	24.0	0.5	
20	QPSK	50	56	22.80	22.58	22.54	23.0	1.0	
20	QPSK	100	0	22.81	22.57	22.84			
20	16QAM	1	1	22.51	22.50	22.44	23.0	1.0	
20	16QAM	1	1	21.42	21.42	21.36	21.5	2.5	
20	256QAM	1	1	19.33	19.33	19.27	19.5	4.5	
Channel									
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.70	22.71	22.83	24.0	0.0	
Channel									
Frequency (MHz)				820	836.5	844			
10	QPSK	1	1	22.78	22.67	22.69	24.0	0.0	
Channel									
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.72	22.73	22.87	24.0	0.0	

n5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				166800	167300	167800			
20	PI4 BPSK	1	1	22.00	21.97	21.93			
20	PI4 BPSK	1	53	22.03	22.09	21.99	23.5	0.0	
20	PI4 BPSK	1	104	22.01	22.03	21.95			
20	PI4 BPSK	50	0	22.01	22.02	22.06	23.5	0.0	
20	PI4 BPSK	50	28	22.06	22.02	22.06	23.5	0.0	
20	PI4 BPSK	50	56	22.05	22.06	22.05			
20	PI4 BPSK	100	0	22.02	22.03	21.94	23.5	0.0	
20	QPSK	1	1	22.10	22.12	22.05			
20	QPSK	1	53	21.99	22.00	21.94	23.5	0.0	
20	QPSK	1	104	21.98	22.08	21.95			
20	QPSK	50	0	21.95	22.01	21.94	23.0	0.5	
20	QPSK	50	28	22.01	22.02	21.99	23.5	0.0	
20	QPSK	50	56	21.95	22.06	21.94	23.0	0.5	
20	QPSK	100	0	21.95	22.05	21.95			
20	16QAM	1	1	22.05	22.05	21.95	23.0	0.5	
20	16QAM	1	1	20.68	20.67	20.64	21.5	2.0	
20	256QAM	1	1	18.05	18.97	18.93	19.5	4.0	
Channel									
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	21.95	22.00	22.07	23.5	0.0	
Channel									
Frequency (MHz)				820	836.5	844			
10	QPSK	1	1	22.00	22.01	22.03	23.5	0.0	
Channel									
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	21.90	21.99	22.04	23.5	0.0	

n7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				564000	507000	510000			
40	PI4 BPSK	1	1	23.04	23.13	23.21			
40	PI4 BPSK	1	108	23.14	23.21	23.29	24.0	0.0	
40	PI4 BPSK	1	214	23.09	23.16	23.26			
40	PI4 BPSK	108	0	23.09	23.05	23.14	23.5	0.5	
40	PI4 BPSK	108	54	23.03	23.12	23.18	24.0	0.0	
40	PI4 BPSK	108	108	23.02	23.12	23.19	23.5	0.5	
40	PI4 BPSK	216	0	23.04	23.14	23.25			
40	QPSK	1	1	23.17	23.28	23.35			
40	QPSK	1	108	23.16	23.26	23.33	24.0	0.0	
40	QPSK	1	214	23.14	23.22	23.32			
40	QPSK	108	0	23.00	23.08	23.14	24.0	0.0	
40	QPSK	108	54	23.10	23.33	23.31	24.0	0.0	
40	QPSK	108	108	23.04	23.20	23.22	24.0	0.0	
40	QPSK	216	0	23.03	23.15	23.09			
40	16QAM	1	1	22.85	22.82	23.01	24.0	0.0	
40	16QAM	1	1	21.88	21.74	21.81	22.0	2.0	
40	256QAM	1	1	19.84	19.93	20.00	21.0	3.0	
Channel									
Frequency (MHz)				52000	52000	51500			
30	QPSK	1	1	23.04	23.15	23.27	24.0	0.0	
Channel									
Frequency (MHz)				52000	52000	51500			
25	QPSK	1	1	23.06	23.17	23.27	24.0	0.0	
Channel									
Frequency (MHz)				52000	52000	51500			
20	QPSK	1	1	23.10	23.11	23.22	24.0	0.0	
Channel									
Frequency (MHz)				52000	52000	51500			
15	QPSK	1	1	23.18	23.18	23.23	24.0	0.0	
Channel									
Frequency (MHz)				52000	52000	51500			
10	QPSK	1	1	23.07	23.05	23.08	24.0	0.0	
Channel									
Frequency (MHz)				52000	52000	51500			
5	QPSK	1	1	23.01	23.09	23.13	24.0	0.0	



n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel				346000	349000	353000			
Frequency (MHz)				1745	1745	1745			
40	RU-BPSK	1	1	16.23	16.25	16.27			
40	RU-BPSK	1	108	16.12	16.24	16.20	17.5	0.0	
40	RU-BPSK	1	214	16.14	16.26	16.18			
40	RU-BPSK	108	0	16.23	16.27	16.10	17.5	0.0	
40	RU-BPSK	108	54	16.18	16.16	16.09	17.5	0.0	
40	RU-BPSK	108	108	16.10	16.17	16.21	17.5	0.0	
40	RU-BPSK	216	0	16.21	16.20	16.10	17.5	0.0	
40	QPSK	1	1	16.25	16.20	16.22			
40	QPSK	1	108	16.16	16.22	16.10	17.5	0.0	
40	QPSK	1	214	16.22	16.15	16.20			
40	QPSK	108	0	16.17	16.22	16.08	17.5	0.0	
40	QPSK	108	54	16.21	16.21	16.20	17.5	0.0	
40	QPSK	108	108	16.13	16.18	16.18	17.5	0.0	
40	QPSK	216	0	16.15	16.23	16.18	17.5	0.0	
40	16QAM	1	1	16.13	16.16	16.12	17.5	0.0	
40	16QAM	1	1	16.17	16.15	16.14	17.5	0.0	
40	256QAM	1	1	16.23	16.20	16.13	17.5	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1745	1745	1745			
30	QPSK	1	1	16.13	16.16	16.07	17.5	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1745	1745	1745			
20	QPSK	1	1	16.16	16.24	16.09	17.5	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1745	1745	1745			
15	QPSK	1	1	16.24	16.27	16.31	17.5	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1745	1745	1745			
10	QPSK	1	1	16.18	16.19	16.21	17.5	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1745	1745	1745			
5	QPSK	1	1	16.13	16.20	16.21	17.5	0.0	

n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel				346000	349000	353000			
Frequency (MHz)				1745	1745	1745			
40	RU-BPSK	1	1	22.41	22.40	22.20			
40	RU-BPSK	1	108	22.47	22.40	22.32	24.0	0.0	
40	RU-BPSK	1	214	22.42	22.43	22.27			
40	RU-BPSK	108	0	22.07	22.06	21.89	23.5	0.0	
40	RU-BPSK	108	54	22.47	22.06	22.34	24.0	0.0	
40	RU-BPSK	108	108	22.03	22.05	21.82	23.5	0.0	
40	RU-BPSK	216	0	22.08	22.10	21.90			
40	QPSK	1	1	22.45	22.53	22.37			
40	QPSK	1	108	22.43	22.40	22.27	24.0	0.0	
40	QPSK	1	214	22.48	22.50	22.30			
40	QPSK	108	0	21.56	21.59	21.41	23.0	1.0	
40	QPSK	108	54	22.28	22.47	22.30	26.0	0.0	
40	QPSK	108	108	21.43	21.48	21.27	23.0	1.0	
40	QPSK	216	0	21.55	21.55	21.38			
40	16QAM	1	1	21.25	21.41	21.21	23.0	1.0	
40	16QAM	1	1	19.95	20.01	19.81	21.5	2.5	
40	256QAM	1	1	18.34	18.32	18.18	19.5	4.5	
Channel				349000	349000	349000			
Frequency (MHz)				1745	1745	1745			
30	QPSK	1	1	22.35	22.35	22.27	24.0	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1745	1745	1745			
20	QPSK	1	1	22.24	22.47	22.31	24.0	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1745	1745	1745			
15	QPSK	1	1	22.35	22.41	22.24	24.0	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1745	1745	1745			
10	QPSK	1	1	22.44	22.35	22.24	24.0	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1745	1745	1745			
5	QPSK	1	1	22.40	22.47	22.20	24.0	0.0	



n38_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel				\$18000	\$19000	\$20000	
Frequency (MHz)							
40	P12 BPSK	1	1	22.96	22.96	23.00	24.0
40	P12 BPSK	1	53	22.87	22.86	22.94	0.0
40	P12 BPSK	1	104	22.74	22.72	22.79	0.0
40	P12 BPSK	50	0	22.92	22.91	22.97	23.5
40	P12 BPSK	50	24	22.90	22.89	22.93	24.0
40	P12 BPSK	50	56	22.78	22.76	22.81	23.5
40	P12 BPSK	100	0	22.81	22.81	22.87	0.0
40	QPSK	1	1	22.99	22.99	23.02	24.0
40	QPSK	1	53	22.88	22.86	22.89	0.0
40	QPSK	1	104	22.71	22.72	22.75	0.0
40	QPSK	50	0	22.90	22.92	22.91	24.0
40	QPSK	50	24	22.87	22.86	22.88	24.0
40	QPSK	50	56	22.79	22.78	22.84	24.0
40	QPSK	100	0	22.83	22.80	22.85	24.0
40	BQAM	1	1	22.89	22.86	22.86	24.0
40	BQAM	1	1	21.83	21.84	21.91	23.0
40	25QAM	1	1	20.12	20.08	20.18	21.0
Channel				\$18000	\$19000	\$20000	
Frequency (MHz)							
30	QPSK	1	1	22.91	22.85	22.88	24.0
Channel				\$18000	\$19000	\$20000	
Frequency (MHz)							
20	QPSK	1	1	22.90	22.85	22.87	24.0
Channel				\$18000	\$19000	\$20000	
Frequency (MHz)							
15	QPSK	1	1	22.83	22.80	22.85	24.0
Channel				\$18000	\$19000	\$20000	
Frequency (MHz)							
10	QPSK	1	1	22.88	22.91	22.91	24.0

n38_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel				\$18000	\$19000	\$20000	
Frequency (MHz)							
40	P12 BPSK	1	1	16.44	16.49	16.48	17.5
40	P12 BPSK	1	53	16.45	16.53	16.56	0.0
40	P12 BPSK	1	104	16.48	16.51	16.57	0.0
40	P12 BPSK	50	0	16.56	16.51	16.46	17.5
40	P12 BPSK	50	24	16.46	16.59	16.59	17.5
40	P12 BPSK	50	56	16.53	16.61	16.54	17.5
40	P12 BPSK	100	0	16.55	16.56	16.50	0.0
40	QPSK	1	1	16.57	16.54	16.60	17.5
40	QPSK	1	53	16.56	16.54	16.50	0.0
40	QPSK	1	104	16.56	16.59	16.53	0.0
40	QPSK	50	0	16.53	16.51	16.59	17.5
40	QPSK	50	24	16.48	16.57	16.57	17.5
40	QPSK	50	56	16.48	16.54	16.52	17.5
40	QPSK	100	0	16.53	16.51	16.50	17.5
40	BQAM	1	1	16.48	16.51	16.49	17.5
40	BQAM	1	1	16.48	16.62	16.58	17.5
40	25QAM	1	1	16.48	16.83	16.47	17.5
Channel				\$18000	\$19000	\$20000	
Frequency (MHz)							
30	QPSK	1	1	16.56	16.51	16.47	17.5
Channel				\$18000	\$19000	\$20000	
Frequency (MHz)							
20	QPSK	1	1	16.48	16.55	16.46	17.5
Channel				\$18000	\$19000	\$20000	
Frequency (MHz)							
15	QPSK	1	1	16.49	16.57	16.54	17.5
Channel				\$18000	\$19000	\$20000	
Frequency (MHz)							
10	QPSK	1	1	16.48	16.56	16.50	17.5



n38_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)							
40	PI2 BPSK	1	1	22.22	22.22	22.30	24.0
40	PI2 BPSK	1	63	22.12	22.20	22.23	24.0
40	PI2 BPSK	1	104	22.18	22.26	22.32	24.0
40	PI2 BPSK	50	0	22.19	22.24	22.25	23.5
40	PI2 BPSK	50	28	22.15	22.24	22.26	24.0
40	PI2 BPSK	50	56	21.97	22.05	22.08	23.5
40	PI2 BPSK	100	0	22.00	22.10	22.14	24.0
40	QPSK	1	1	22.21	22.21	22.30	24.0
40	QPSK	1	63	22.08	22.14	22.17	24.0
40	QPSK	1	104	22.14	22.22	22.21	24.0
40	QPSK	50	0	22.09	22.14	22.14	24.0
40	QPSK	50	28	22.09	22.09	22.12	24.0
40	QPSK	100	0	21.63	21.75	21.72	23.0
40	BQAM	1	1	21.70	21.70	21.82	23.0
40	BQAM	1	1	20.14	20.21	20.22	21.5
40	BQAM	1	1	18.22	18.28	18.28	19.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.14	22.21	22.15	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.11	22.24	22.25	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.16	22.18	22.25	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.16	22.17	22.25	24.0

FCC_n41_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	22.96	22.92	22.90	24.0
100	PI2 BPSK	1	137	22.82	22.88	22.88	24.0
100	PI2 BPSK	1	271	22.83	22.86	22.86	24.0
100	PI2 BPSK	135	0	22.98	22.91	22.89	23.5
100	PI2 BPSK	135	66	22.92	22.87	22.88	24.0
100	PI2 BPSK	135	133	22.83	22.86	22.83	23.5
100	PI2 BPSK	270	0	22.90	22.85	22.84	24.0
100	QPSK	1	1	23.13	23.14	23.05	24.0
100	QPSK	1	137	23.12	23.06	23.04	24.0
100	QPSK	1	271	23.10	23.07	23.06	24.0
100	QPSK	135	0	22.98	22.96	22.87	24.0
100	QPSK	135	66	22.92	22.92	22.88	24.0
100	QPSK	135	133	22.86	22.83	22.80	24.0
100	QPSK	270	0	22.93	22.93	22.90	24.0
100	BQAM	1	1	23.09	23.04	23.02	24.0
100	BQAM	1	1	22.00	21.93	21.93	23.0
100	BQAM	1	1	20.21	20.15	20.15	21.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.06	23.02	22.94	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.00	22.99	22.95	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.00	23.03	22.91	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.00	22.95	22.92	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.00	22.97	22.94	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.99	22.98	22.98	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.03	22.97	22.92	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.03	22.98	23.00	24.0



Par27Q n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.09	23.09				
100	PI2 BPSK	1	137	23.18			24.0	0.0	
100	PI2 BPSK	1	271	23.17					
100	PI2 BPSK	135	6	23.02			23.5	0.5	
100	PI2 BPSK	135	66	23.07			24.0	0.0	
100	PI2 BPSK	135	139	23.08			23.5	0.5	
100	PI2 BPSK	270	0	23.00					
100	QPSK	1	1	23.23					
100	QPSK	1	137	23.21			24.0	0.0	
100	QPSK	1	271	23.20					
100	QPSK	135	6	23.06					
100	QPSK	135	66	23.12					
100	QPSK	135	138	23.09			24.0	0.0	
100	QPSK	270	0	23.00			24.0	0.0	
100	16QAM	1	1	23.22			24.0	0.0	
100	64QAM	1	1	22.92			23.0	1.0	
100	256QAM	1	1	20.83			21.0	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.13	23.14	23.16	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.08	23.09	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.13	23.12	23.05	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.18	23.16	23.07	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.11	23.10	23.15	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.12	23.12	23.06	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.12	23.17	23.06	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.07	23.16	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.14	23.17	23.10	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.08	23.10	23.10	24.0	0.0	

Par27Q n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.92	18.92				
100	PI2 BPSK	1	137	18.91					
100	PI2 BPSK	1	271	18.92					
100	PI2 BPSK	135	0	18.94			20.0	0.0	
100	PI2 BPSK	135	66	18.90			20.0	0.0	
100	PI2 BPSK	135	138	18.88			20.0	0.0	
100	PI2 BPSK	270	0	18.92					
100	QPSK	1	1	18.90					
100	QPSK	1	137	18.92					
100	QPSK	1	271	18.89					
100	QPSK	135	0	18.89					
100	QPSK	135	66	18.92					
100	QPSK	135	138	18.89			20.0	0.0	
100	QPSK	270	0	18.90			20.0	0.0	
100	16QAM	1	1	18.94			20.0	0.0	
100	64QAM	1	1	18.89			20.0	0.0	
100	256QAM	1	1	17.77			18.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.80	18.99	18.88	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.85	18.98	18.96	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.86	18.95	18.95	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.86	18.98	18.92	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.93	18.85	18.83	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.87	18.98	18.93	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.87	18.99	18.90	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.90	18.94	18.92	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.90	18.98	18.91	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.94	18.85	18.83	20.0	0.0	



Band 4_Ant 1									
RPW (MHz)	Modulation	RB Freq	RB Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Turn-up (min)	MTR (dB)	
Channel									
Channel (MHz)				20000	20175	20350		MTR (dB)	MTR (dB)
20	QPSK	1	0	15.47	15.58	15.50			
20	QPSK	1	48	15.28	15.36	15.18	16.7	0	
10	QPSK	1	48	15.32	15.30	15.34			
10	QPSK	50	0	15.20	15.55	15.30			
20	QPSK	50	24	15.44	15.38	15.28	16.7	0	
10	QPSK	50	24	15.40	15.32	15.20			
10	QPSK	100	0	15.40	15.42	15.38			
10	HQAM	1	0	15.48	15.23	15.40			
10	HQAM	1	49	15.38	15.50	15.24			
10	HQAM	50	0	15.38	15.34	15.27			
20	HQAM	50	24	15.43	15.26	15.26	16.7	0	
20	HQAM	50	24	15.28	15.49	15.25			
20	HQAM	100	0	15.48	15.48	15.30			
10	HQAM	100	0	15.28	15.46	15.22			
10	HQAM	1	49	15.38	15.47	15.44	16.7	0	
20	HQAM	1	49	15.39	15.51	15.50			
20	HQAM	50	24	15.44	15.36	15.32			
20	HQAM	50	24	15.40	15.34	15.13	16.7	0	
20	HQAM	50	24	15.46	15.47	15.31			
20	HQAM	50	24	15.28	15.43	15.25			
20	Z8QAM	1	0	15.28	15.44	15.11			
20	Z8QAM	1	49	15.47	15.34	15.28	16.7	0	
20	Z8QAM	50	24	15.29	15.29	15.30			
20	Z8QAM	50	24	15.46	15.42	15.27			
20	Z8QAM	50	24	15.22	15.46	15.26			
20	Z8QAM	50	24	15.34	15.36	15.29			
20	Z8QAM	100	0	15.41	15.34	15.24			
Channel									
Channel (MHz)				20175	20175	20175	MTR (min)	MTR (dB)	MTR (dB)
15	QPSK	1	0	15.45	15.48	15.45	16.7	0	
15	QPSK	1	37	15.18	15.30	15.06			
15	QPSK	12	0	15.28	15.28	15.28			
15	QPSK	36	0	15.38	15.45	15.36			
15	QPSK	36	20	15.42	15.28	15.17	16.7	0	
15	QPSK	75	0	15.27	15.37	15.32			
15	QPSK	75	0	15.39	15.30	15.29			
15	HQAM	1	0	15.35	15.13	15.33			
15	HQAM	1	49	15.38	15.28	15.28			
15	HQAM	1	74	15.31	15.38	15.17			
15	HQAM	36	0	15.30	15.27	15.12			
15	HQAM	36	20	15.33	15.47	15.27	16.7	0	
15	HQAM	36	20	15.13	15.47	15.23			
15	HQAM	75	0	15.33	15.41	15.27			
15	HQAM	75	0	15.38	15.27	15.19			
15	HQAM	1	37	15.40	15.49	15.30	16.7	0	
15	HQAM	1	74	15.35	15.26	15.40			
15	HQAM	1	74	15.40	15.39	15.39			
15	HQAM	36	20	15.33	15.21	15.05	16.7	0	
15	HQAM	36	20	15.45	15.33	15.25			
15	Z8QAM	1	0	15.24	15.30	15.10			
15	Z8QAM	1	37	15.30	15.30	15.30	16.7	0	
15	Z8QAM	12	0	15.28	15.25	15.04			
15	Z8QAM	36	0	15.36	15.20	15.12			
15	Z8QAM	36	20	15.46	15.26	15.16	16.7	0	
15	Z8QAM	75	0	15.38	15.15	15.27			
15	Z8QAM	75	0	15.30	15.30	15.18			
Channel									
Channel (MHz)				20175	20175	20175	MTR (min)	MTR (dB)	MTR (dB)
10	QPSK	1	0	15.20	15.57	15.36			
10	QPSK	1	25	15.23	15.29	15.15	16.7	0	
10	QPSK	25	0	15.32	15.32	15.32			
10	QPSK	25	12	15.44	15.48	15.36			
10	QPSK	25	12	15.29	15.24	15.18	16.7	0	
10	QPSK	50	0	15.30	15.41	15.23			
10	HQAM	1	0	15.43	15.15	15.25			
10	HQAM	1	49	15.28	15.38	15.38			
10	HQAM	1	49	15.34	15.44	15.22			
10	HQAM	25	0	15.25	15.24	15.17			
10	HQAM	25	12	15.40	15.37	15.27	16.7	0	
10	HQAM	25	12	15.22	15.44	15.13			
10	HQAM	50	0	15.36	15.39	15.16			
10	HQAM	50	0	15.38	15.39	15.18			
10	HQAM	1	25	15.38	15.34	15.43	16.7	0	
10	HQAM	1	49	15.33	15.33	15.46			
10	HQAM	25	12	15.39	15.29	15.28			
10	HQAM	25	12	15.34	15.24	14.99	16.7	0	
10	HQAM	25	12	15.41	15.40	15.17			
10	HQAM	25	12	15.18	15.37	15.19			
10	Z8QAM	1	0	15.13	15.41	14.98			
10	Z8QAM	1	25	15.46	15.26	15.28	16.7	0	
10	Z8QAM	12	0	15.28	15.26	14.88			
10	Z8QAM	25	0	15.36	15.20	15.26			
10	Z8QAM	25	12	15.46	15.26	15.16	16.7	0	
10	Z8QAM	50	0	15.38	15.15	15.27			
10	Z8QAM	50	0	15.31	15.22	15.28			
Channel									
Channel (MHz)				20175	20175	20175	MTR (min)	MTR (dB)	MTR (dB)
5	QPSK	1	0	15.34	15.51	15.47			
5	QPSK	1	12	15.21	15.22	15.08	16.7	0	
5	QPSK	12	0	15.31	15.32	15.32			
5	QPSK	12	7	15.39	15.44	15.36			
5	QPSK	12	7	15.31	15.28	15.21	16.7	0	
5	QPSK	12	14	15.26	15.40	15.15			
5	QPSK	25	0	15.26	15.29	15.32			
5	HQAM	1	0	15.37	15.13	15.34			
5	HQAM	1	49	15.38	15.28	15.24			
5	HQAM	12	0	15.22	15.45	15.12			
5	HQAM	12	7	15.38	15.33	15.22	16.7	0	
5	HQAM	12	14	15.28	15.45	15.12			
5	HQAM	25	0	15.30	15.24	15.18			
5	HQAM	25	0	15.30	15.40	15.26			
5	HQAM	25	12	15.40	15.38	15.13	16.7	0	
5	HQAM	1	12	15.30	15.42	15.43			
5	HQAM	1	25	15.34	15.49	15.47			
5	HQAM	12	0	15.29	15.28	15.18			
5	HQAM	12	14	15.31	15.37	15.18			
5	HQAM	12	14	15.34	15.27	15.08	16.7	0	
5	Z8QAM	1	0	15.14	15.39	14.97			
5	Z8QAM	1	12	15.30	15.23	15.14	16.7	0	
5	Z8QAM	12	0	15.32	15.23	15.07			
5	Z8QAM	12	7	15.30	15.34	15.25			
5	Z8QAM	12	14	15.30	15.15	14.98	16.7	0	
5	Z8QAM	25	0	15.30	15.38	15.14			
5	Z8QAM	25	0	15.38	15.13	15.24	16.7	0	
5	Z8QAM	25	0	15.27	15.19	15.16			
Channel									
Channel (MHz)				20175	20175	20175	MTR (min)	MTR (dB)	MTR (dB)
14	QPSK	1	0	15.46	15.49	15.46			
14	QPSK	1	3	15.13	15.22	15.08	16.7	0	
14	QPSK	1	14	15.30	15.34	15.24			
14	QPSK	3	0	15.40	15.49	15.37			
14	QPSK	3	1	15.42	15.28	15.17	16.7	0	
14	QPSK	14	0	15.32	15.46	15.18			
14	QPSK	6	0	15.37	15.38	15.25	16.7	0	
14	HQAM	1	0	15.43	15.12	15.33			
14	HQAM	1	14	15.39	15.36	15.28			
14	HQAM	1	14	15.24	15.45	15.17	16.7	0	
14	HQAM	3	0	15.28	15.24	15.14			
14	HQAM	3	1	15.30	15.30	15.17			
14	HQAM	6	0	15.34	15.41	15.26	16.7	0	
14	HQAM	6	1	15.33	15.33	15.07			
14	HQAM	1	3	15.32	15.37	15.29			
14	HQAM	1	14	15.28	15.46	15.38	16.7	0	
14	HQAM	1	14	15.24	15.24	15.28			
14	HQAM	3	1	15.30	15.28	15.03			
14	HQAM	3	1	15.46	15.46	15.22			
14	HQAM	6	0	15.39	15.39	15.15	16.7	0	
14	Z8QAM	1	0	15.13	15.36	15.03			
14	Z8QAM	1	3	15.48	15.28	15.26	16.7	0	
14	Z8QAM	1	3	15.38	15.19	14.96			
14	Z8QAM	3	0	15.45	15.34	15.19			
14	Z8QAM	3	1	15.41	15.28	15.18	16.7	0	
14	Z8QAM	6	0	15.33	15.17	15.18			
14	Z8QAM	6	0	15.40	15.22	15.10			

Band 4_Ant 0									
RPW (MHz)	Modulation	RB Freq	RB Offset	Power Low Ch / Freq	Power Mod Ch / Freq	Power High Ch / Freq	Turn-up (min)	MTR (dB)	
Channel									
Channel (MHz)				20000	20175	20350		MTR (dB)	MTR (dB)
20	QPSK	1	0	20.38	20.50	20.35			
20	QPSK	1	48	20.74	20.83	20.80	22.6	0	
10	QPSK	1	48	20.78	20.83	20.83			
10	QPSK	50	0	20.35	20.88	20.70			
20	QPSK	50	24	20.84	20.78	20.70	22.6	0	
10	QPSK	50	24	20.82	20.82	20.82			
10	QPSK	100	0	20.73	20.87	20.76			
10	HQAM	1	0	20.80	20.75	20.72			
10	HQAM	1	49	20.74	20.76	20.84	22.6	0	
10	HQAM	1	99	20.83	20.78	20.74			
10	HQAM	50	0	20.76	20.80	20.79			
20	HQAM	50	24	20.79	20.85	20.76	22	0.6	
20	HQAM	50	24	20.74	20.76	20.71</			



Band 7_Ant 2															
BW (MHz)	Modulation	RB	RB Offset	Power Low Ch / Freqs	Power High Ch / Freqs	Power High Ch / Freqs	Turn-up (dB)	MPE (dB)	Channel					MPE (dB)	
									2500	2150	2180	Turn-up (dB)	MPE (dB)		
30	QPSK	1	0	21.22	21.25	21.30	22.4	0	Channel					22.4	0
Fronding (MHz)															
30	QPSK	1	48	21.07	21.24	21.08			Fronding (MHz)						
30	QPSK	1	96	21.13	21.17	21.10			Fronding (MHz)						
30	QPSK	50	0	21.19	21.23	21.18			Fronding (MHz)						
30	QPSK	96	24	21.13	21.11	21.17	22.4	0	Fronding (MHz)						
30	QPSK	50	50	21.20	21.10	21.16			Fronding (MHz)						
30	QPSK	100	0	21.18	21.20	21.14			Fronding (MHz)						
30	HQDM	1	0	21.09	21.10	21.19	22.4	0	Fronding (MHz)						
30	HQDM	1	48	21.23	21.13	21.11			Fronding (MHz)						
30	HQDM	1	96	21.18	21.14	21.16			Fronding (MHz)						
30	HQDM	50	0	21.20	21.18	21.18			Fronding (MHz)						
30	HQDM	50	48	21.10	21.10	21.14			Fronding (MHz)						
30	HQDM	50	50	21.09	21.24	21.13	22.4	0	Fronding (MHz)						
30	HQDM	100	0	21.11	21.10	21.11			Fronding (MHz)						
30	HQDM	100	0	21.17	21.02	21.19			Fronding (MHz)						
30	HQDM	1	48	21.19	21.20	21.08	22.4	0	Fronding (MHz)						
30	HQDM	1	96	21.07	21.14	21.05			Fronding (MHz)						
30	HQDM	50	0	21.18	21.00	21.08			Fronding (MHz)						
30	HQDM	50	50	21.07	21.24	21.12	22	0.4	Fronding (MHz)						
30	HQDM	50	50	21.19	21.10	21.16			Fronding (MHz)						
30	HQDM	100	0	21.10	21.00	21.08			Fronding (MHz)						
30	ZSSGM	1	0	18.86	18.80	18.79			Fronding (MHz)						
30	ZSSGM	1	48	18.89	18.70	18.88	19	3.4	Fronding (MHz)						
30	ZSSGM	1	96	18.75	18.87	18.71			Fronding (MHz)						
30	ZSSGM	50	0	18.71	18.72	18.59			Fronding (MHz)						
30	ZSSGM	50	48	18.87	18.86	18.76	19	3.4	Fronding (MHz)						
30	ZSSGM	100	0	18.86	18.79	18.83			Fronding (MHz)						
30	ZSSGM	100	0	18.89	18.77	18.75			Fronding (MHz)						
Channel															
15	QPSK	1	0	21.20	21.21	21.05	22.4	0	Channel					22.4	0
15	QPSK	1	37	21.05	21.17	21.01			Channel						
15	QPSK	1	74	21.12	21.03	20.96			Channel						
15	QPSK	38	0	21.06	21.15	21.05			Channel						
15	QPSK	38	20	21.08	20.99	21.05	22.4	0	Channel						
15	QPSK	38	39	21.08	20.99	21.02			Channel						
15	QPSK	75	0	21.16	21.14	20.99			Channel						
15	HQDM	1	0	20.98	21.03	21.09	22.4	0	Channel						
15	HQDM	1	37	21.11	21.02	21.08			Channel						
15	HQDM	1	74	21.02	21.08	21.04			Channel						
15	HQDM	38	0	21.09	21.15	21.07			Channel						
15	HQDM	38	20	21.08	20.99	21.02	22.4	0	Channel						
15	HQDM	38	39	21.08	21.23	21.11			Channel						
15	HQDM	75	0	20.99	21.06	21.02			Channel						
15	HQDM	75	0	21.09	21.07	21.15			Channel						
15	HQDM	1	37	21.02	21.08	20.99	22.4	0	Channel						
15	HQDM	1	74	21.15	21.12	20.91			Channel						
15	HQDM	38	0	21.06	21.09	21.02			Channel						
15	HQDM	38	20	20.94	21.12	21.04	22	0.4	Channel						
15	HQDM	38	39	21.07	21.09	21.00			Channel						
15	HQDM	75	0	21.08	21.03	21.02			Channel						
15	ZSSGM	1	0	18.86	18.72	18.76			Channel						
15	ZSSGM	1	48	18.89	18.86	18.81	19	3.4	Channel						
15	ZSSGM	1	96	18.75	18.87	18.71			Channel						
15	ZSSGM	50	0	18.86	18.80	18.50			Channel						
15	ZSSGM	50	48	18.87	18.86	18.76	19	3.4	Channel						
15	ZSSGM	100	0	18.87	18.85	18.83			Channel						
Channel															
5	QPSK	1	0	21.09	21.21	21.10	22.4	0	Channel					22.4	0
5	QPSK	1	25	20.93	21.12	21.00			Channel						
5	QPSK	1	24	21.11	21.12	20.96			Channel						
5	QPSK	12	0	21.15	21.13	21.11			Channel						
5	QPSK	12	7	21.08	20.98	21.12	22.4	0	Channel						
5	QPSK	12	13	21.06	21.03	21.03			Channel						
5	QPSK	25	0	21.09	21.08	21.06			Channel						
5	HQDM	1	0	21.04	20.98	21.14	22.4	0	Channel						
5	HQDM	1	49	21.11	21.05	21.11			Channel						
5	HQDM	25	0	21.13	21.13	21.13			Channel						
5	HQDM	25	12	21.04	21.01	21.08			Channel						
5	HQDM	25	26	21.03	21.09	21.05	22.4	0	Channel						
5	HQDM	50	0	20.96	20.96	21.06			Channel						
5	HQDM	50	0	21.04	21.15	21.08			Channel						
5	HQDM	50	25	21.05	21.12	21.04	22.4	0	Channel						
5	HQDM	1	49	20.96	21.00	20.92			Channel						
5	HQDM	25	0	21.04	21.09	20.99			Channel						
5	HQDM	25	12	20.97	21.11	21.02	22	0.4	Channel						
5	HQDM	25	26	21.07	21.14	21.08			Channel						
5	HQDM	50	0	20.96	21.05	20.95			Channel						
5	ZSSGM	1	0	18.81	18.89	18.86			Channel						
5	ZSSGM	1	25	18.84	18.86	18.54	19	3.4	Channel						
5	ZSSGM	1	49	18.82	18.72	18.57			Channel						
5	ZSSGM	25	0	18.89	18.70	18.45			Channel						
5	ZSSGM	25	12	18.87	18.87	18.63	19	3.4	Channel						
5	ZSSGM	50	0	18.87	18.85	18.83			Channel						
Channel															
5	QPSK	1	0	18.83	18.87	18.85			Channel						
5	QPSK	1	12	18.63	18.61	18.61	19	3.4	Channel						
5	QPSK	1	24	18.61	18.62	18.62			Channel						
5	QPSK	12	0	18.33	18.42	18.42			Channel						
5	QPSK	12	7	18.36	18.46	18.34	17.7	0	Channel						
5	QPSK	12	13	18.38	18.49	18.33			Channel						
5	QPSK	25	0	18.49	18.42	18.43			Channel						
5	HQDM	1	0	18.45	18.47	18.36	17.7	0	Channel						
5	HQDM	1	48	18.51	18.45	18.34			Channel						
5	HQDM	1	49	18.35	18.40	18.29			Channel						
5	HQDM	25	0	18.54	18.50	18.39	17.7	0	Channel						
5	HQDM	25	12	18.39	18.49	18.38			Channel						
5	HQDM	25	26	18.51	18.44	18.46			Channel						
5	HQDM	50	0	18.52	18.47	18.31			Channel						
5	HQDM	50	0	18.49	18.34	18.34			Channel						
5	HQDM	50	25	18.39	18.44	18.29	17.7	0	Channel						
5	HQDM	1	49	18.48	18.53	18.33	17.7	0	Channel						
5	HQDM	25	0	18.51	18.38	18.38	17.7	0	Channel						
5	HQDM	25	12	18.41	18.47	18.25			Channel						
5	HQDM	25	26	18.49	18.40	18.33	17.7	0	Channel						
5	ZSSGM	1	0	18.41	18.42	18.23			Channel						
5	ZSSGM	25	0	18.40	18.46	18.35			Channel						
5	ZSSGM	25	12	18.29	18.45	18.35	17.7	0	Channel						
5	ZSSGM	50	0	18.51	18.40	18.34	17.7	0	Channel						
5	ZSSGM	50	0	18.44	18.38	18.41			Channel						
Channel															
5	QPSK	1	0	18.53	18.57	18.41	17.7	0	Channel						
5	QPSK	1	12	18.48	18.41	18.30			Channel						
5	QPSK	1	24	18.36	18.31	18.43			Channel						
5	QPSK	12	0	18.37	18.51	18.41			Channel						
5	QPSK	12	7	18.37	18.40	18.46	17.7	0	Channel						
5	QPSK	12	13	18.38	18.49	18.33			Channel						
5	QPSK	25	0	18.41	18.38	18.40			Channel						
5	HQDM	1	0	18.45	18.50	18.38	17.7	0	Channel						
5	HQDM	1	48	18.38	18.49	18.33			Channel						
5	HQDM	1	49	18.38	18.37	18.25			Channel						
5	HQDM	25	0	18.50	18.40	18.45	17.7	0	Channel						
5	HQDM	25	12	18.37	18.50	18.41			Channel						
5	HQDM	25	13	18.38	18.48	18.47			Channel						
5	HQDM	25	26	18.53	18.42	18.40			Channel						
5	HQDM	50	0	18.44	18.43	18.27			Channel						
5	HQDM	50	12	18.43	18.33	18.31	17.7	0	Channel						
5	HQDM	1	24	18.48	18.53	18.37			Channel						
5	HQDM	1	49	18.39	18.41	18.42			Channel						
5	HQDM	12	7	18.41	18.46	18.38	17.7	0	Channel						
5	HQDM	25	0	18.42	18.39	18.38			Channel						
5	ZSSGM	1	0	18.42	18.40	18.41	17.7	0	Channel						
5	ZSSGM	1	12	18.46	18.51	18.30			Channel						
5	ZSSGM	25	0	18.41	18.41	18.38			Channel						
5	ZSSGM	25	12	18.63	18.42	18.36	17.7	0	Channel						
5	ZSSGM	50	0	18.49	18.40	18.34			Channel						

Band 7_Ant 1															
BW (MHz)	Modulation	RB	RB Offset	Power Low Ch / Freqs	Power High Ch / Freqs	Power High Ch / Freqs	Turn-up (dB)	MPE (dB)	Channel					MPE (dB)	
									2500	2150	2180	Turn-up (dB)	MPE (dB)		
30	QPSK	1	0	18.37	18.50	18.30	17.7	0	Channel					17.7	0



Band 12_Ant 1										
BW (MHz)	Modulation	RB Size	RB Const.	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
				705	707.5	710				
10	QPSK	1	0	22.41	22.42	22.38				
10	QPSK	1	25	22.35	22.38	22.28	24	0		
10	QPSK	1	48	22.33	22.33	22.28				
10	QPSK	25	0	22.03	22.13	21.85				
10	QPSK	25	12	22.28	22.09	21.94				
10	QPSK	25	25	22.03	22.02	22.02	23	1		
10	QPSK	50	0	22.07	22.08	22.00				
10	16QAM	1	0	22.07	22.23	22.21				
10	16QAM	1	25	22.15	22.28	22.28	23	1		
10	16QAM	1	48	22.18	22.01	20.91				
10	16QAM	25	0	20.95	20.95	20.97				
10	16QAM	25	12	21.17	21.03	21.09				
10	16QAM	25	25	21.06	21.10	21.85	22	2		
10	16QAM	50	0	21.12	20.95	21.08				
10	16QAM	50	0	21.12	21.34	21.51				
10	16QAM	1	25	21.39	21.20	21.25	22	2		
10	16QAM	1	48	20.84	21.20	21.17				
10	16QAM	25	0	19.99	20.97	19.98				
10	16QAM	25	12	20.15	20.20	20.15	21	3		
10	16QAM	25	25	20.03	20.04	20.17				
10	16QAM	50	0	20.03	20.00	20.07				
10	256QAM	1	0	18.00	18.12	17.97				
10	256QAM	1	25	18.06	18.10	17.85	19	5		
10	256QAM	1	48	17.95	18.06	17.87				
10	256QAM	25	0	17.91	18.00	17.85				
10	256QAM	25	12	17.86	17.90	17.80	19	5		
10	256QAM	25	25	17.83	18.15	18.06				
10	256QAM	50	0	18.02	18.11	18.01				
Channel										
Frequency (MHz)										
				2109	2111	2115				
5	QPSK	1	0	22.24	22.18	22.40				
5	QPSK	1	12	22.29	22.32	22.41	24	0		
5	QPSK	1	24	22.33	22.33	22.34				
5	QPSK	12	0	21.91	21.95	21.96				
5	QPSK	12	7	22.07	21.94	22.04	23	1		
5	QPSK	12	12	21.99	21.97	21.97				
5	QPSK	25	0	22.03	21.92	21.87				
5	16QAM	1	0	22.15	22.10	22.19				
5	16QAM	1	12	22.03	22.03	22.03	23	1		
5	16QAM	1	24	22.17	22.31	22.40				
5	16QAM	12	0	21.80	21.86	21.91				
5	16QAM	12	12	21.83	21.92	21.87	22	2		
5	16QAM	12	13	21.13	20.98	21.02				
5	16QAM	25	0	21.08	21.13	20.98				
5	16QAM	25	12	21.04	21.07	21.04				
5	16QAM	25	12	20.97	21.18	21.22	22	2		
5	16QAM	1	24	21.26	21.13	21.27				
5	16QAM	12	0	19.89	20.94	19.95				
5	16QAM	12	7	19.97	20.03	20.14	21	3		
5	16QAM	12	13	20.13	20.06	20.25				
5	256QAM	1	0	17.88	18.07	17.92				
5	256QAM	1	12	18.01	18.08	17.97	19	5		
5	256QAM	1	24	17.93	17.95	18.03				
5	256QAM	12	0	17.90	17.85	17.91				
5	256QAM	12	12	17.89	17.98	17.93	19	5		
5	256QAM	12	13	17.86	18.05	18.07				
5	256QAM	25	0	18.00	18.00	17.93				
Channel										
Frequency (MHz)										
				2207	2209	2217.8				
1.4	QPSK	1	0	22.19	22.32	22.32				
1.4	QPSK	1	3	22.35	22.28	22.22	24	0		
1.4	QPSK	1	6	22.33	22.34	22.29				
1.4	QPSK	3	0	22.03	22.14	22.03				
1.4	QPSK	3	3	22.23	22.24	22.23				
1.4	QPSK	3	6	22.03	21.99	22.05	23	1		
1.4	QPSK	3	9	21.98	22.01	22.01				
1.4	QPSK	15	0	22.00	21.98	21.97				
1.4	16QAM	1	0	22.08	21.92	22.10				
1.4	16QAM	1	3	21.92	22.01	22.10	23	1		
1.4	16QAM	1	6	22.10	21.94	22.20				
1.4	16QAM	3	0	21.90	22.02	22.03				
1.4	16QAM	3	3	22.06	22.04	22.03				
1.4	16QAM	3	6	21.99	21.80	22.10	22	2		
1.4	16QAM	15	0	20.97	20.81	21.00				
1.4	16QAM	15	3	20.98	21.29	21.07				
1.4	16QAM	1	9	21.30	21.08	21.16	22	2		
1.4	16QAM	3	0	20.91	20.91	20.95				
1.4	16QAM	3	3	20.98	21.06	20.95	21	3		
1.4	16QAM	3	6	19.80	19.85	19.78				
1.4	256QAM	1	0	17.99	18.10	17.83				
1.4	256QAM	1	3	18.09	18.09	17.92	19	5		
1.4	256QAM	1	6	17.95	17.94	17.89				
1.4	256QAM	3	0	17.79	17.99	17.88				
1.4	256QAM	3	3	17.85	17.95	17.88				
1.4	256QAM	3	6	17.97	18.11	17.99				
1.4	256QAM	15	0	17.88	17.86	17.91	19	5		

Band 13_Ant 0										
BW (MHz)	Modulation	RB Size	RB Const.	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
				752	753	753				
10	QPSK	1	0	23.52						
10	QPSK	1	25	23.24			24	0		
10	QPSK	1	48	23.24						
10	QPSK	25	0	23.07						
10	QPSK	25	12	22.99			24	0		
10	QPSK	25	25	23.01						
10	QPSK	50	0	22.95						
10	16QAM	1	0	23.28						
10	16QAM	1	25	23.11			24	0		
10	16QAM	1	48	23.30						
10	16QAM	25	0	22.93						
10	16QAM	25	12	22.98			23	1		
10	16QAM	25	25	22.98						
10	16QAM	50	0	22.95						
10	16QAM	50	0	22.95						
10	16QAM	1	25	22.93						
10	16QAM	1	48	22.87						
10	16QAM	25	0	21.97						
10	16QAM	25	12	21.98			22	2		
10	16QAM	25	25	21.85						
10	16QAM	50	0	21.97						
10	256QAM	1	0	18.90						
10	256QAM	1	25	18.82			19	5		
10	256QAM	1	48	18.96						
10	256QAM	25	0	18.88						
10	256QAM	25	12	18.87			19	5		
10	256QAM	25	25	18.85						
10	256QAM	50	0	18.90						
Channel										
Frequency (MHz)										
				2250	2252	2255				
5	QPSK	1	0	22.08	22.05	22.01				
5	QPSK	1	12	22.04	22.02	22.00	24	0		
5	QPSK	1	24	22.01	22.08	22.03				
5	QPSK	12	0	22.03	22.05	22.03				
5	QPSK	12	7	22.05	22.08	22.05	24	0		
5	QPSK	12	12	22.00	22.01	22.00				
5	QPSK	25	0	23.00	22.91	23.00				
5	16QAM	1	0	22.27	22.10	22.31				
5	16QAM	1	12	22.09	22.02	22.14	24	0		
5	16QAM	1	24	22.29	22.02	22.03				
5	16QAM	12	0	22.08	22.62	22.60				
5	16QAM	12	7	22.09	22.94	22.73	23	1		
5	16QAM	12	13	22.05	22.68	22.84				
5	16QAM	25	0	22.81	22.57	22.64				
5	16QAM	25	12							



Band 17_Ant 1									
BW (MHz)	Modulation	RS	RB	RB Const.	Power Low Ch./F.Freq.	Power Mid Ch./F.Freq.	Power High Ch./F.Freq.	Turn-up time (min)	MPE (dB)
Channel					2760	2790	2800		
Frequency (MHz)									
10	QPSK	1	0	22.35	22.35	22.35			
10	QPSK	1	25	22.27	22.32	22.28			
10	QPSK	49	49	22.31	22.32	22.26			
10	QPSK	25	0	22.31	22.34	22.12	24	0	
10	QPSK	25	12	22.10	21.98	22.01			
10	QPSK	25	25	22.00	22.22	22.07			
10	QPSK	50	0	22.01	22.00	22.00			
10	16QAM	1	0	22.26	22.23	22.26			
10	16QAM	1	23	22.13	22.23	22.16	23	1	
10	16QAM	1	49	22.38	22.30	22.34			
10	16QAM	25	0	20.80	21.01	20.98			
10	16QAM	25	25	21.14	21.10	21.11	22	2	
10	16QAM	50	0	21.98	21.91	21.98			
10	16QAM	50	1	21.92	21.93	21.97			
10	16QAM	100	0	21.26	21.09	21.25	22	2	
10	16QAM	100	1	21.19	21.23	21.03			
10	16QAM	25	0	20.94	20.99	20.98			
10	16QAM	25	12	19.59	20.10	19.94	21	3	
10	16QAM	25	25	20.16	20.02	20.09			
10	16QAM	50	0	20.89	20.92	20.94			
10	25QAM	1	0	18.17	18.18	18.06			
10	25QAM	1	25	18.01	18.13	18.05	19	5	
10	25QAM	25	0	18.11	18.20	18.12			
10	25QAM	25	25	18.00	18.14	18.04			
10	25QAM	50	0	18.07	18.16	18.11	19	5	
10	25QAM	50	25	18.04	18.17	18.03			
10	25QAM	100	0	18.08	18.20	18.07			
Channel					2810	2840	2850		
Frequency (MHz)									
5	QPSK	1	0	22.30	22.18	22.11			
5	QPSK	1	12	22.30	22.31	22.34	24	0	
5	QPSK	1	24	22.14	22.30	22.29			
5	QPSK	12	0	22.00	21.96	21.96			
5	QPSK	12	7	22.06	22.11	21.95	23	1	
5	QPSK	12	0	21.99	21.99	21.99			
5	QPSK	25	0	21.24	21.26	21.43			
5	16QAM	1	0	21.28	21.13	21.01	23	1	
5	16QAM	1	24	21.14	21.22	21.04			
5	16QAM	12	0	21.14	21.09	21.09			
5	16QAM	12	13	21.13	21.09	21.02	22	2	
5	16QAM	25	0	20.98	21.04	20.90			
5	16QAM	25	1	21.38	21.34	21.35			
5	16QAM	1	12	21.33	21.29	21.34	22	2	
5	16QAM	1	24	21.04	21.26	21.50			
5	16QAM	12	0	20.93	20.93	20.99			
5	16QAM	12	7	19.98	20.05	20.10	21	3	
5	25QAM	1	0	18.02	18.08	18.04			
5	25QAM	1	12	17.89	18.05	18.01	19	5	
5	25QAM	25	0	18.07	18.08	18.01			
5	25QAM	25	12	17.86	18.13	17.89			
5	25QAM	12	0	18.14	18.08	18.08			
5	25QAM	12	7	18.04	18.08	18.06	19	5	
5	25QAM	12	13	18.05	18.08	18.07			
5	25QAM	25	0	17.85	18.08	17.95			

Band 25_Ant 2									
BW (MHz)	Modulation	RS	RB	RB Const.	Power Low Ch./F.Freq.	Power Mid Ch./F.Freq.	Power High Ch./F.Freq.	Turn-up time (min)	MPE (dB)
Channel					3060	3090	3090		
Frequency (MHz)									
20	QPSK	1	0	21.61	21.70	21.65			
20	QPSK	1	49	21.51	21.68	21.62	23.2	0	
20	QPSK	1	24	21.43	21.63	21.53			
20	QPSK	50	0	21.12	21.88	21.67	23	1	
20	QPSK	50	24	21.49	21.50	21.57			
20	QPSK	100	0	21.63	21.62	21.60			
20	QPSK	100	0	21.61	21.65	21.68			
20	16QAM	1	0	21.56	21.66	21.64			
20	16QAM	1	23	21.52	21.69	21.61	23	0.2	
20	16QAM	1	99	21.62	21.67	21.66			
20	16QAM	50	0	21.54	21.67	21.62			
20	16QAM	50	24	21.63	21.59	21.61	23	0.2	
20	16QAM	100	0	21.50	21.66	21.61			
20	16QAM	100	0	21.57	21.69	21.61	23	0.2	
20	16QAM	100	1	21.50	21.61	21.57	23	0.2	
20	16QAM	1	99	21.57	21.58	21.59			
20	16QAM	50	0	21.53	21.69	21.60			
20	16QAM	50	24	21.58	21.61	21.58	22	1.2	
20	16QAM	100	0	20.99	20.96	21.09			
20	16QAM	100	0	21.08	20.98	21.15			
20	25QAM	1	0	18.00	18.70	18.61			
20	25QAM	1	49	18.00	18.86	18.76	19	4.2	
20	25QAM	1	24	18.07	18.74	18.66			
20	25QAM	50	0	18.80	18.82	18.88			
20	25QAM	50	24	18.82	18.74	18.81	19	4.2	
20	25QAM	100	0	18.09	18.70	18.55			
Channel					3110	3140	3150		
Frequency (MHz)									
15	QPSK	1	0	21.62	21.67	21.65			
15	QPSK	1	37	21.39	21.63	21.48	23.2	0	
15	QPSK	1	49	21.48	21.68	21.58			
15	QPSK	36	0	21.49	21.64	21.56			
15	QPSK	36	20	21.40	21.52	21.49	23	0.2	
15	QPSK	75	0	21.44	21.45	21.54			
15	QPSK	75	0	21.59	21.63	21.43			
15	16QAM	1	0	21.44	21.62	21.59			
15	16QAM	1	25	21.63	21.62	21.48	23	0.2	
15	16QAM	1	74	21.52	21.59	21.41			
15	16QAM	36	0	21.46	21.42	21.52			
15	16QAM	36	20	21.46	21.56	21.46	23	0.2	
15	16QAM	75	0	21.48	21.54	21.45			
15	16QAM	75	0	21.60	21.60	21.60			
15	16QAM	1	37	21.41	21.52	21.52	23	0.2	
15	16QAM	1	74	21.46	21.47	21.51			
15	16QAM	1	74	21.50	20.98	21.19			
15	16QAM	36	20	20.97	20.99	21.19	22	1.2	
15	16QAM	36	39	21.06	20.93	21.20			
15	25QAM	1	0	18.09	18.67	18.49	19	4.2	
15	25QAM	1	37	18.02	18.74	18.71			
15	25QAM	1	49	18.05	18.67	18.62			
15	25QAM	36	0	18.07	18.77	18.69			
15	25QAM	36	20	18.07	18.74	18.69	19	4.2	
15	25QAM	36	39	18.02	18.65	18.66			
15	25QAM	75	0	18.02	18.61	18.47			
Channel					3160	3190	3200		
Frequency (MHz)									
10	QPSK	1	0	21.48	21.64	21.64			
10	QPSK	1	25	21.48	21.63	21.63	23.2	0	
10	QPSK	25	0	21.58	21.62	21.62			
10	QPSK	25	12	21.43	21.46	21.62	23	0.2	
10	QPSK	50	0	21.50	21.63	21.61			
10	QPSK	50	1	21.48	21.54	21.61			
10	16QAM	1	0	21.58	21.64	21.61			
10	16QAM	1	49	21.59	21.69	21.63	23	0.2	
10	16QAM	25	0	21.43	21.42	21.56			
10	16QAM	25	12	21.43	21.56	21.62			
10	16QAM	25	25	21.51	21.59	21.42	23	0.2	
10	16QAM	50	0	21.46	21.49	21.43			
10	16QAM	50	1	21.57	21.66	21.65			
10	16QAM	100	0	21.49	21.57	21.59	23	0.2	
10	16QAM	100	1	21.49	21.46	21.52			
10	16QAM	25	0	21.23	21.19	21.38			
10	16QAM	25	12	21.26	21.10	21.31	22	1.2	
10	16QAM	50	0	21.52	21.51	21.61			
10	16QAM	50	1	18.12	18.67	18.57	19	4.2	
10	16QAM	100	0	18.02	18.68	18.69			
10	16QAM	100	1	18.05	18.74	18.70	19	4.2	
10	16QAM	25	0	18.09	18.61	18.59			
10	16QAM	25	12	18.07	18.61	18.59	19	4.2	
10	16QAM	25	25	18.05	18.71	18.60			
10									



Band 26(FCC)_Ant 0

BW	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turnup Int (sec)	MFR (dB)
Channel 26765								
Frequency MHz 811.5 811.5 811.5								
15	QPSK	1	0	22.80	22.80	22.80	24	0
15	QPSK	1	37	22.75	22.78	22.80	24	0
15	QPSK	1	74	22.70	22.75	22.80	24	0
15	QPSK	36	0	22.60	22.68	22.75	24	0
15	QPSK	36	20	22.55	22.58	22.60	24	0
15	QPSK	36	39	22.50	22.43	22.45	24	0
15	QPSK	75	0	22.43	22.57	22.30	24	0
15	QPSK	75	0	22.81	22.88	22.80	24	0
15	QPSK	75	37	22.85	22.85	22.85	24	0
15	QPSK	1	74	22.89	22.88	22.51	23	1
15	QPSK	36	0	21.82	21.87	21.58	22	2
15	QPSK	36	20	21.84	21.83	21.56	22	2
15	QPSK	36	39	21.79	21.83	21.53	23	1
15	QPSK	75	0	21.84	21.88	21.51	23	1
15	QPSK	75	0	21.70	21.83	21.58	23	1
15	QPSK	75	37	21.76	21.83	21.73	23	1
15	QPSK	1	74	21.80	21.58	21.53	23	1
15	QPSK	36	0	20.79	20.87	20.57	22	2
15	QPSK	36	20	20.82	20.87	20.48	22	2
15	QPSK	36	39	20.80	20.84	20.48	22	2
15	QPSK	75	0	20.82	20.87	20.48	22	2
15	QPSK	75	0	18.74	18.75	18.70	19	5
15	QPSK	1	37	18.72	18.80	18.84	19	5
15	QPSK	74	18	18.81	18.81	18.64	19	5
15	QPSK	36	0	18.67	18.73	18.65	19	5
15	QPSK	36	20	18.79	18.80	18.70	19	5
15	QPSK	36	39	18.75	18.85	18.80	19	5
15	QPSK	75	0	18.75	18.83	18.70	19	5
Channel 26766								
Frequency MHz 811.5 811.5 811.5								
10	QPSK	1	0	22.78	22.78	22.80	24	0
10	QPSK	1	25	22.64	22.72	22.58	24	0
10	QPSK	48	0	22.46	22.43	22.44	24	0
10	QPSK	25	0	22.46	22.61	22.44	24	0
10	QPSK	25	12	22.50	22.51	22.37	24	0
10	QPSK	25	25	22.54	22.37	22.37	24	0
10	QPSK	50	0	22.43	22.53	22.16	24	0
10	QPSK	1	0	22.74	22.83	22.55	24	0
10	QPSK	1	21	22.73	22.71	22.44	24	0
10	QPSK	1	49	22.50	22.44	22.47	24	0
10	QPSK	25	0	21.89	21.63	21.51	23	1
10	QPSK	25	12	21.73	21.87	21.63	23	1
10	QPSK	25	25	21.76	21.51	21.46	23	1
10	QPSK	50	0	21.70	21.83	21.42	23	1
10	QPSK	50	12	21.59	21.78	21.46	23	1
10	QPSK	50	25	21.56	21.71	21.38	23	1
10	QPSK	1	0	21.86	21.49	21.38	23	1
10	QPSK	1	0	20.70	20.60	20.50	22	2
10	QPSK	25	12	20.81	20.54	20.47	22	2
10	QPSK	25	25	20.71	20.59	20.44	22	2
10	QPSK	50	0	20.71	20.57	20.44	22	2
10	QPSK	1	0	18.69	18.72	18.56	19	5
10	QPSK	1	12	18.85	18.72	18.59	19	5
10	QPSK	1	49	18.74	18.81	18.64	19	5
10	QPSK	25	0	18.62	18.67	18.52	19	5
10	QPSK	25	12	18.75	18.81	18.64	19	5
10	QPSK	25	25	18.81	18.73	18.68	19	5
10	QPSK	50	0	18.88	18.81	18.81	19	5
Channel 26767								
Frequency MHz 811.5 811.5 811.5								
5	QPSK	1	0	22.82	22.88	22.81	24	0
5	QPSK	1	12	22.61	22.67	22.60	24	0
5	QPSK	1	24	22.61	22.63	22.41	24	0
5	QPSK	12	0	22.57	22.68	22.50	24	0
5	QPSK	12	7	22.51	22.47	22.39	24	0
5	QPSK	12	13	22.58	22.40	22.40	24	0
5	QPSK	25	0	22.52	22.54	22.28	24	0
5	QPSK	1	0	22.74	22.75	22.53	24	0
5	QPSK	1	12	22.78	22.76	22.55	24	0
5	QPSK	1	24	22.62	22.48	22.44	24	0
5	QPSK	12	0	21.67	21.58	21.56	23	1
5	QPSK	12	7	21.69	21.68	21.46	23	1
5	QPSK	12	13	21.72	21.55	21.46	23	1
5	QPSK	25	0	21.62	21.86	21.38	23	1
5	QPSK	25	0	21.67	21.78	21.38	23	1
5	QPSK	1	12	21.61	21.76	21.32	23	1
5	QPSK	1	24	21.66	21.42	21.48	23	1
5	QPSK	1	0	20.64	20.62	20.46	22	2
5	QPSK	12	7	20.72	20.59	20.45	22	2
5	QPSK	12	13	20.69	20.47	20.46	22	2
5	QPSK	25	0	20.69	20.55	20.45	22	2
5	QPSK	1	0	18.60	18.50	18.40	19	5
5	QPSK	1	12	18.66	18.70	18.54	19	5
5	QPSK	1	24	18.71	18.72	18.54	19	5
5	QPSK	12	0	18.62	18.70	18.52	19	5
5	QPSK	12	7	18.67	18.77	18.55	19	5
5	QPSK	12	13	18.81	18.73	18.74	19	5
5	QPSK	25	0	18.81	18.75	18.61	19	5
Channel 26768								
Frequency MHz 811.5 811.5 811.5								
3	QPSK	1	0	22.76	22.78	22.72	24	0
3	QPSK	1	8	22.63	22.67	22.54	24	0
3	QPSK	1	14	22.68	22.64	22.48	24	0
3	QPSK	8	0	22.46	22.55	22.52	24	0
3	QPSK	8	4	22.52	22.47	22.41	24	0
3	QPSK	8	7	22.38	22.32	22.32	24	0
3	QPSK	15	0	22.42	22.47	22.17	24	0
3	QPSK	1	0	22.72	22.74	22.52	24	0
3	QPSK	1	8	22.74	22.72	22.50	24	0
3	QPSK	1	14	22.56	22.43	22.38	24	0
3	QPSK	8	0	21.79	21.61	21.53	23	1
3	QPSK	8	4	21.74	21.68	21.47	23	1
3	QPSK	8	7	21.65	21.56	21.52	23	1
3	QPSK	15	0	21.79	21.86	21.43	23	1
3	QPSK	1	0	21.63	21.82	21.67	23	1
3	QPSK	1	8	21.72	21.70	21.70	23	1
3	QPSK	1	14	21.66	21.52	21.46	23	1
3	QPSK	8	0	20.73	20.88	20.59	22	2
3	QPSK	8	4	20.76	20.57	20.41	22	2
3	QPSK	8	7	20.79	20.64	20.45	22	2
3	QPSK	15	0	20.69	20.65	20.39	22	2
3	QPSK	1	0	18.72	18.74	18.61	19	5
3	QPSK	1	8	18.88	18.70	18.59	19	5
3	QPSK	1	14	18.88	18.67	18.59	19	5
3	QPSK	8	0	18.69	18.65	18.53	19	5
3	QPSK	8	4	18.85	18.81	18.85	19	5
3	QPSK	8	7	18.81	18.75	18.71	19	5
3	QPSK	15	0	18.74	18.73	18.65	19	5
Channel 26769								
Frequency MHz 811.5 811.5 811.5								
1.4	QPSK	1	0	22.86	22.82	22.77	24	0
1.4	QPSK	1	3	22.63	22.65	22.58	24	0
1.4	QPSK	1	5	22.84	22.80	22.38	24	0
1.4	QPSK	3	0	22.77	22.49	22.33	24	0
1.4	QPSK	3	1	22.83	22.52	22.31	24	0
1.4	QPSK	3	3	22.82	22.72	22.55	24	0
1.4	QPSK	6	0	22.70	22.43	22.32	24	0
1.4	QPSK	1	0	22.78	22.60	22.31	24	0
1.4	QPSK	1	3	22.82	22.72	22.55	24	0
1.4	QPSK	1	5	22.80	22.48	22.65	24	0
1.4	QPSK	3	0	22.79	22.60	22.42	24	0
1.4	QPSK	3	1	22.88	22.75	22.60	24	0
1.4	QPSK	3	3	22.74	22.46	22.46	24	0
1.4	QPSK	6	0	22.69	21.72	21.73	23	1
1.4	QPSK	1	0	21.63	21.97	21.98	23	1
1.4	QPSK	1	3	22.18	21.66	21.04	23	1
1.4	QPSK	1	5	22.16	21.48	21.61	23	1
1.4	QPSK	3	0	22.14	21.70	21.60	23	1
1.4	QPSK	3	1	22.05	21.76	21.59	23	1
1.4	QPSK	3	3	22.02	20.78	21.81	23	1
1.4	QPSK	6	0	20.92	20.78	20.58	22	2
1.4	QPSK	1	0	18.71	18.70	18.60	19	5
1.4	QPSK	1	3	18.85	18.81	18.81	19	5
1.4	QPSK	1	5	18.73	18.72	18.71	19	5
1.4	QPSK	3	0	18.59	18.61	18.54	19	5
1.4	QPSK	3	1	18.84	18.75	18.74	19	5
1.4	QPSK	3	3	18.84	18.75	18.74	19	5
1.4	QPSK	6	0	18.73	18.73	18.72	19	5

Band 26(FCC)_Ant 1

BW	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turnup Int (sec)	MFR (dB)
Channel 26770								
Frequency MHz 811.5 811.5 811.5								
15	QPSK	1	0	22.70	22.74	22.63	24	0
15	QPSK	1	37	22.66	22.70	22.60	24	0
15	QPSK	1	74	22.65	22.65	22.55	23	1
15	QPSK	36	0	22.60	22.64	22.76	23	1
15	QPSK	36	20	22.17	22.20	22.10	23	1
15	QPSK	36	39	22.14	22.24	22.23	23	1
15	QPSK	75	0	22.12	22.17	21.87	23	1
15	QPSK	75	0	22.52	22.24	22.24	23	1
15	QPSK	75	37	22.57	22.34	22.23	23	1
15	QPSK	1	74	22.20	22.02	22.13	22	2
15	QPSK	36	0	21.19	21.11	21.01	22	2
15	QPSK	36	20	21.28	21.10	20.99	22	2
15	QPSK	36	39	21.28	21.03	21.00	22	2
15	QPSK	75	0	21.18	21.13	21.08	22	2
15	QPSK	75	0	20.97	20.94	21.08	22	2



Band 66_Ant 1

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Tuning up (MHz)	MFR (dB)
Channel 1								
Frequency (MHz)								
20	QPSK	1	0	15.50	15.50	15.50		
20	QPSK	1	48	15.43	15.51	15.25	16.7	0
20	QPSK	1	96	15.43	15.53	15.43		
20	QPSK	50	0	15.50	15.50	15.50		
20	QPSK	50	24	15.50	15.50	15.50	16.7	0
20	QPSK	50	48	15.44	15.57	15.38		
20	QPSK	100	0	15.28	15.57	15.37		
20	HQAM	1	0	15.50	15.49	15.48		
20	HQAM	1	48	15.44	15.44	15.42	16.7	0
20	HQAM	1	96	15.48	15.58	15.31		
20	HQAM	50	0	15.52	15.49	15.50		
20	HQAM	50	24	15.47	15.59	15.42		
20	HQAM	50	48	15.40	15.58	15.39	16.7	0
20	HQAM	100	0	15.42	15.53	15.45		
20	HQAM	100	24	15.30	15.55	15.30		
20	HQAM	1	48	15.51	15.53	15.45	16.7	0
20	HQAM	1	96	15.43	15.54	15.52		
20	HQAM	50	0	15.37	15.54	15.47		
20	HQAM	50	24	15.54	15.44	15.25	16.7	0
20	HQAM	50	48	15.32	15.51	15.34		
20	HQAM	100	0	15.40	15.56	15.36		
20	HQAM	100	24	15.42	15.53	15.25	16.7	0
20	HQAM	1	48	15.51	15.53	15.45	16.7	0
20	HQAM	1	96	15.47	15.38	15.45		
20	HQAM	50	0	15.42	15.53	15.25		
20	HQAM	50	24	15.56	15.39	15.20	16.7	0
20	HQAM	50	48	15.39	15.50	15.24		
20	HQAM	100	0	15.27	15.58	15.42		
20	HQAM	100	24	15.27	15.48	15.20	16.7	0
20	HQAM	1	48	15.32	15.40	15.31		
20	HQAM	1	96	15.30	15.40	15.31	16.7	0
20	HQAM	50	0	15.46	15.50	15.39		
20	HQAM	50	24	15.32	15.50	15.44		
20	HQAM	50	48	15.52	15.32	15.20	16.7	0
20	HQAM	100	0	15.28	15.43	15.28		
20	HQAM	100	24	15.38	15.37	15.28	16.7	0
20	HQAM	1	48	15.51	15.51	15.10		
20	HQAM	1	96	15.45	15.34	15.24	16.7	0
20	HQAM	50	0	15.48	15.43	15.34		
20	HQAM	50	24	15.22	15.50	15.22	16.7	0
20	HQAM	50	48	15.35	15.32	15.36		
20	HQAM	100	0	15.32	15.24	15.31	16.7	0
Channel 2								
Frequency (MHz)								
15	QPSK	1	0	15.44	15.52	15.48		
15	QPSK	1	37	15.28	15.45	15.16	16.7	0
15	QPSK	1	74	15.44	15.45	15.35		
15	QPSK	36	0	15.50	15.57	15.42		
15	QPSK	36	20	15.42	15.50	15.28	16.7	0
15	QPSK	36	40	15.37	15.54	15.24		
15	QPSK	75	0	15.20	15.49	15.27		
15	HQAM	1	0	15.38	15.50	15.47		
15	HQAM	1	37	15.31	15.51	15.38	16.7	0
15	HQAM	1	74	15.40	15.50	15.22		
15	HQAM	36	0	15.44	15.46	15.20		
15	HQAM	36	20	15.56	15.37	15.29	16.7	0
15	HQAM	36	40	15.39	15.50	15.24		
15	HQAM	75	0	15.27	15.38	15.42		
15	HQAM	75	20	15.27	15.48	15.20	16.7	0
15	HQAM	1	37	15.32	15.40	15.31		
15	HQAM	1	74	15.32	15.51	15.39	16.7	0
15	HQAM	36	0	15.46	15.39	15.44		
15	HQAM	36	20	15.52	15.32	15.20	16.7	0
15	HQAM	36	40	15.38	15.43	15.28		
15	HQAM	75	0	15.28	15.37	15.28		
15	HQAM	75	20	15.37	15.27	15.20	16.7	0
15	HQAM	1	48	15.51	15.43	15.10		
15	HQAM	1	96	15.48	15.34	15.24	16.7	0
15	HQAM	50	0	15.40	15.50	15.24		
15	HQAM	50	24	15.40	15.43	15.21	16.7	0
15	HQAM	50	48	15.38	15.39	15.21		
15	HQAM	100	0	15.31	15.50	15.22		
15	HQAM	100	24	15.45	15.24	15.34	16.7	0
15	HQAM	25	0	15.42	15.50	15.24		
15	HQAM	25	12	15.48	15.43	15.21	16.7	0
15	HQAM	50	0	15.34	15.39	15.21		
15	HQAM	50	24	15.42	15.43	15.21	16.7	0
15	HQAM	50	48	15.31	15.39	15.22		
15	HQAM	100	0	15.35	15.51	15.11	16.7	0
15	HQAM	100	24	15.47	15.49	15.26		
15	HQAM	25	12	15.47	15.38	15.41	16.7	0
15	HQAM	25	25	15.40	15.40	15.25		
15	HQAM	50	0	15.38	15.29	15.25	16.7	0
Channel 3								
Frequency (MHz)								
10	QPSK	1	0	15.47	15.54	15.44		
10	QPSK	1	25	15.37	15.43	15.23	16.7	0
10	QPSK	1	49	15.37	15.45	15.37		
10	QPSK	25	0	15.40	15.55	15.42		
10	QPSK	25	12	15.40	15.39	15.36	16.7	0
10	QPSK	25	25	15.33	15.43	15.31		
10	QPSK	50	0	15.28	15.48	15.24		
10	HQAM	1	0	15.46	15.37	15.44		
10	HQAM	1	25	15.31	15.37	15.40	16.7	0
10	HQAM	1	49	15.31	15.44	15.29		
10	HQAM	25	0	15.47	15.42	15.28		
10	HQAM	25	12	15.46	15.43	15.27	16.7	0
10	HQAM	25	25	15.30	15.50	15.32		
10	HQAM	50	0	15.31	15.52	15.33		
10	HQAM	50	12	15.31	15.42	15.24	16.7	0
10	HQAM	50	25	15.41	15.42	15.24		
10	HQAM	100	0	15.41	15.52	15.35		
10	HQAM	100	25	15.40	15.32	15.42	16.7	0
10	HQAM	25	0	15.40	15.42	15.34		
10	HQAM	25	12	15.48	15.43	15.21	16.7	0
10	HQAM	25	25	15.35	15.38	15.21		
10	HQAM	50	0	15.31	15.50	15.22		
10	HQAM	50	25	15.45	15.24	15.34	16.7	0
10	HQAM	100	0	15.35	15.37	15.11		
10	HQAM	100	25	15.47	15.49	15.26	16.7	0
10	HQAM	25	12	15.47	15.38	15.41		
10	HQAM	25	25	15.40	15.40	15.25	16.7	0
10	HQAM	50	0	15.38	15.29	15.25		
Channel 4								
Frequency (MHz)								
5	QPSK	1	0	15.50	15.50	15.42		
5	QPSK	1	12	15.38	15.50	15.12	16.7	0
5	QPSK	1	24	15.30	15.50	15.36		
5	QPSK	12	0	15.47	15.44	15.47		
5	QPSK	12	7	15.38	15.54	15.30	16.7	0
5	QPSK	12	14	15.47	15.43	15.34		
5	QPSK	25	0	15.19	15.47	15.35		
5	HQAM	1	0	15.43	15.50	15.33		
5	HQAM	1	12	15.34	15.50	15.41	16.7	0
5	HQAM	1	24	15.40	15.47	15.18		
5	HQAM	12	0	15.41	15.50	15.22		
5	HQAM	12	7	15.44	15.37	15.36	16.7	0
5	HQAM	12	14	15.38	15.42	15.37		
5	HQAM	25	0	15.31	15.50	15.41		
5	HQAM	25	7	15.41	15.42	15.20	16.7	0
5	HQAM	25	14	15.48	15.43	15.42		
5	HQAM	50	0	15.30	15.47	15.38		
5	HQAM	50	12	15.44	15.50	15.45	16.7	0
5	HQAM	50	24	15.47	15.50	15.11		
5	HQAM	100	0	15.47	15.47	15.28		
5	HQAM	100	12	15.30	15.45	15.33	16.7	0
5	HQAM	100	24	15.44	15.39	15.11		
5	HQAM	15	0	15.38	15.50	15.23		
5	HQAM	15	7	15.37	15.45	15.25	16.7	0
5	HQAM	15	14	15.34	15.20	15.22		
5	HQAM	25	0	15.28	15.49	15.35		
5	HQAM	25	7	15.28	15.47	15.27	16.7	0
5	HQAM	25	14	15.34	15.38	15.33		
5	HQAM	50	0	15.34	15.38	15.33		
5	HQAM	50	12	15.34	15.38	15.33	16.7	0
5	HQAM	50	24	15.28	15.29	15.30		
Channel 5								
Frequency (MHz)								
3	QPSK	1	0	15.50	15.50	15.44		
3	QPSK	1	8	15.38	15.56	15.14	16.7	0
3	QPSK	1	14	15.40	15.44	15.32		
3	QPSK	8	0	15.40	15.55	15.40		
3	QPSK	8	4	15.35	15.53	15.22	16.7	0
3	QPSK	8	7	15.31	15.56	15.30		
3	QPSK	16	0	15.18	15.54	15.28		
3	HQAM	1	0	15.37	15.57	15.40		
3	HQAM	1	8	15.32	15.38	15.27	16.7	0
3	HQAM	1	14	15.43	15.43	15.25		
3	HQAM	8	0	15.41	15.46	15.27		
3	HQAM	8	4	15.50	15.38	15.33	16.7	0
3	HQAM	8	7	15.37	15.46	15.31		
3	HQAM	16	0	15.28	15.48	15.36		
3	HQAM	16	8	15.48	15.46	15.22	16.7	0
3	HQAM	16	14	15.40	15.50	15.45		
3	HQAM	32	0	15.36	15.39	15.38		
3	HQAM	32	8	15.46	15.50	15.41	16.7	0
3	HQAM	32	14	15.44	15.39	15.11		
3	HQAM	64	0	15.44	15.39	15.11		
3	HQAM	64	8	15.39	15.49	15.23	16.7	0
3	HQAM	64	14	15.30	15.47	15.20		
3	HQAM	128	0	15.37	15.45	15.25		
3	HQAM	128	8	15.40	15.27	15.22	16.7	0
3	HQAM	128	14	15.43	15.49	15.23		
3	HQAM	256	0	15.34	15.39	15.31	16.7	0
3	HQAM	256	7	15.31	15.50	15.31		
3	HQAM	256	15	15.35				



Band 38_Ant 2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turnup (dB)	MFR (dB)				
Channels				37860	38000	38150						
Frequency (MHz)				2955	2995	3035						
20	QPSK	1	0	22.38	22.05	22.54						
20	QPSK	1	49	22.85	22.84	22.79	24	0				
20	QPSK	1	98	22.82	22.78	22.71						
20	QPSK	50	0	22.64	22.88	22.71						
20	QPSK	50	24	22.78	22.71	22.71	24	0				
20	QPSK	50	49	22.81	22.89	22.89						
20	QPSK	100	0	22.72	22.75	22.68						
20	16QAM	1	0	22.82	22.85	22.65						
20	16QAM	1	49	22.78	22.78	22.68	24	0				
20	16QAM	1	99	22.74	22.65	22.68						
20	16QAM	50	0	22.81	22.49	22.37						
20	16QAM	50	24	22.54	22.42	22.38	23	1				
20	16QAM	50	49	22.82	22.52	22.38						
20	16QAM	100	0	22.82	22.61	22.58						
20	16QAM	100	24	22.57	22.48	22.23	23	1				
20	16QAM	100	49	21.58	21.41	21.40						
20	16QAM	50	0	21.56	21.46	21.26	22	2				
20	16QAM	50	24	21.54	21.45	21.35						
20	256QAM	1	0	19.17	19.30	19.20						
20	256QAM	1	49	19.34	19.40	19.28	21	3				
20	256QAM	1	99	19.33	19.29	19.17						
20	256QAM	50	0	19.15	19.28	19.18						
20	256QAM	50	24	19.19	19.35	19.17	21	3				
20	256QAM	50	49	19.24	19.18	19.18						
20	256QAM	100	0	19.28	19.38	19.32						
Channels			37875	38000	38150							
Frequency (MHz)			29775	29975	30175	Turnup (dB)	MFR (dB)					
18	QPSK	1	0	22.74	22.75	22.58						
18	QPSK	1	37	22.75	22.81	22.75	24	0				
18	QPSK	1	74	22.72	22.74	22.61						
18	QPSK	36	0	22.79	22.68	22.61						
18	QPSK	36	20	22.65	22.58	22.58	24	0				
18	QPSK	36	36	22.64	22.62	22.63						
18	QPSK	75	0	22.73	22.68	22.62						
18	16QAM	1	0	22.76	22.62	22.63						
18	16QAM	1	37	22.62	22.52	22.63	24	0				
18	16QAM	1	74	22.71	22.54	22.59						
18	16QAM	36	0	22.65	22.44	22.39						
18	16QAM	36	20	22.38	22.38	22.38	23	1				
18	16QAM	36	36	22.62	22.42	22.21						
18	16QAM	75	0	22.61	22.27	22.26						
18	16QAM	75	24	22.48	22.34	22.21	24	0				
18	16QAM	75	49	22.47	22.50	22.49						
18	16QAM	100	0	22.46	22.32	22.31						
18	16QAM	100	24	22.45	21.89	21.92	21	0.3				
18	256QAM	1	0	17.99	18.24	18.01						
18	256QAM	1	37	18.21	18.38	18.24	21	3				
18	256QAM	1	74	18.18	18.13	17.98						
18	256QAM	36	0	18.09	18.15	18.14						
18	256QAM	36	20	18.09	18.25	18.10	21	3				
18	256QAM	36	36	18.09	18.25	18.18						
18	256QAM	75	0	18.20	18.30	18.20						
Channels			37890	38000	38200							
Frequency (MHz)			29790	29990	30190	Turnup (dB)	MFR (dB)					
10	QPSK	1	0	22.74	22.73	22.59						
10	QPSK	1	25	22.79	22.83	22.70	24	0				
10	QPSK	1	49	22.84	22.81	22.64						
10	QPSK	25	0	22.80	22.74	22.64						
10	QPSK	25	12	22.75	22.58	22.48	24	0				
10	QPSK	25	25	22.85	22.62	22.65						
10	QPSK	50	0	22.71	22.67	22.64						
10	16QAM	1	0	22.81	22.67	22.68						
10	16QAM	1	25	22.65	22.52	22.63	24	0				
10	16QAM	1	49	22.71	22.61	22.60						
10	16QAM	25	0	22.67	22.48	22.36						
10	16QAM	25	12	22.43	22.34	22.32	23	1				
10	16QAM	25	25	22.64	22.49	22.27						
10	16QAM	50	0	22.46	22.29	22.23						
10	16QAM	50	12	22.54	22.33	22.18	23	1				
10	16QAM	50	25	22.66	22.56	22.26						
10	16QAM	100	0	22.45	22.31	22.10						
10	16QAM	100	12	21.44	21.38	21.39	22	2				
10	256QAM	1	0	18.06	18.25	18.06						
10	256QAM	1	25	18.21	18.32	18.21	21	3				
10	256QAM	1	49	18.18	18.18	18.14						
10	256QAM	36	0	18.09	18.15	18.14						
10	256QAM	36	20	18.09	18.25	18.10	21	3				
10	256QAM	36	36	18.09	18.25	18.18						
10	256QAM	75	0	18.20	18.30	18.20						
Channels			37875	38000	38275							
Frequency (MHz)			29775	29975	30175	Turnup (dB)	MFR (dB)					
5	QPSK	1	0	22.75	22.74	22.62						
5	QPSK	1	12	22.81	22.74	22.71	24	0				
5	QPSK	1	24	22.88	22.65	22.61						
5	QPSK	12	0	22.74	22.62	22.43						
5	QPSK	12	7	22.69	22.57	22.58	24	0				
5	QPSK	12	13	22.83	22.69	22.67						
5	QPSK	25	0	22.72	22.67	22.68						
5	16QAM	1	0	22.73	22.61	22.63						
5	16QAM	1	12	22.66	22.51	22.64	24	0				
5	16QAM	1	24	22.69	22.51	22.63						
5	16QAM	12	0	22.66	22.48	22.38						
5	16QAM	12	7	22.46	22.45	22.32	23	1				
5	16QAM	12	13	22.46	22.42	22.23						
5	16QAM	25	0	22.61	22.38	22.42						
5	16QAM	25	12	22.53	22.38	22.12	23	1				
5	16QAM	25	24	22.65	22.55	22.47						
5	16QAM	50	0	21.53	21.42	21.38						
5	16QAM	50	12	21.50	21.32	21.33	22	2				
5	16QAM	50	24	21.47	21.31	21.35						
5	256QAM	1	0	18.09	18.16	18.08						
5	256QAM	1	12	18.21	18.31	18.20	21	3				
5	256QAM	1	24	18.14	18.12	18.07						
5	256QAM	36	0	18.09	18.16	18.15						
5	256QAM	36	12	18.24	18.35	18.24	21	3				
5	256QAM	36	24	18.17	18.21	18.05						
5	256QAM	75	0	18.20	18.30	18.20						

Band 38_Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turnup (dB)	MFR (dB)				
Channels				37860	38000	38150						
Frequency (MHz)				2955	2995	3035						
20	QPSK	1	0	20.36	20.37	20.35						
20	QPSK	1	49	20.16	20.32	20.19	21.3	0				
20	QPSK	1	99	20.17	20.17	20.20						
20	QPSK	50	0	20.11	20.25	20.20						
20	QPSK	50	24	20.20	20.13	20.17	21.3	0				
20	QPSK	50	49	20.27	20.21	20.23						
20	QPSK	100	0	20.19	20.22	20.20						
20	16QAM	1	0	20.16	20.27	20.09						
20	16QAM	1	49	20.21	20.26	20.17	21.3	0				
20	16QAM	1	99	20.16	20.35	20.30						
20	16QAM	50	0	20.17	20.19	20.18						
20	16QAM	50	24	20.10	20.22	20.19	21.3	0				
20	16QAM	50	49	20.12	20.16	20.18						
20	16QAM	100	0	20.10	20.28	20.13						
20	16QAM	100	24	20.22	20.24	20.18	21.3	0				
20	16QAM	100	49	20.13	20.30	20.24						
20	256QAM	1	0	18.12	18.25	18.11						
20	256QAM	1	49	18.25	18.30	18.24	19	4.5				
20	256QAM	1	99	18.16	18.21	18.11						
20	256QAM	50	0	18.26	18.32	18.26						
20	256QAM	50	24	18.19	18.35	18.27	19	2.3				
20	256QAM	50	49	18.28	18.33	18.19						
20	256QAM	100	0	18.32	18.33	18.25						
Channels			37875	3800								



Band 41_Ant 1												
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch / Freq.		Power Mid Ch / Freq.		Power High Ch / Freq.		Time-up (min)	MFR (dB)	
				39760	40160	40620	41080	41600				
				Frequency (MHz)	Power (dBm)	Power (dBm)	Power (dBm)	Power (dBm)				
20	QPSK	1	0	20.31	20.28	20.40	20.35	20.33	21.3	0		
20	QPSK	1	49	20.27	20.21	20.38	20.22	20.23	21.3	0		
20	QPSK	1	98	20.23	20.13	20.28	20.13	20.11	21.3	0		
20	QPSK	50	0	20.28	20.22	20.34	20.30	20.28	21.3	0		
20	QPSK	50	24	20.27	20.22	20.28	20.27	20.31	21.3	0		
20	QPSK	50	28	20.27	20.22	20.28	20.27	20.31	21.3	0		
20	QPSK	100	0	20.22	20.28	20.30	20.28	20.28	21.3	0		
20	16QAM	1	0	20.24	20.25	20.34	20.22	20.28	21.3	0		
20	16QAM	1	49	20.29	20.27	20.35	20.22	20.28	21.3	0		
20	16QAM	1	98	20.23	20.28	20.39	20.34	20.21	21.3	0		
20	16QAM	50	0	20.19	20.20	20.28	20.33	20.28	21.3	0		
20	16QAM	50	24	20.23	20.21	20.28	20.27	20.30	21.3	0		
20	16QAM	50	50	20.25	20.14	20.28	20.21	20.32	21.3	0		
20	16QAM	100	0	20.20	20.20	20.38	20.25	20.19	21.3	0		
20	16QAM	100	0	20.24	20.14	20.38	20.29	20.29	21.3	0		
20	16QAM	100	49	20.16	20.18	20.39	20.27	20.19	21.3	0		
20	16QAM	1	99	20.29	20.24	20.29	20.31	20.27	21.3	0		
20	16QAM	50	0	20.19	20.27	20.35	20.29	20.29	21.3	0		
20	16QAM	50	24	20.19	20.24	20.29	20.24	20.24	21.3	0.3		
20	16QAM	50	50	20.28	20.16	20.30	20.34	20.32	21.3	0		
20	256QAM	1	0	18.26	18.32	18.40	18.34	18.29	19.1	2.3		
20	256QAM	1	49	18.43	18.30	18.47	18.41	18.32	19.1	2.3		
20	256QAM	1	98	18.33	18.35	18.31	18.37	18.29	19.1	2.3		
20	256QAM	50	0	18.27	18.31	18.33	18.27	18.29	19.1	2.3		
20	256QAM	50	24	18.40	18.39	18.44	18.39	18.32	19.1	2.3		
20	256QAM	50	50	18.39	18.42	18.31	18.36	18.32	19.1	2.3		
20	256QAM	100	0	18.33	18.27	18.47	18.42	18.32	19.1	2.3		
Channel				39760	40160	40620	41080	41600	Time-up (min)		MFR (dB)	
Frequency (MHz)				20.25	20.65	20.95	21.35	21.75			19.1	
15	QPSK	1	0	20.19	20.14	20.27	20.34	20.22	21.3	0		
15	QPSK	1	49	20.14	20.07	20.31	20.13	20.10	21.3	0		
15	QPSK	1	98	20.11	20.13	20.31	20.29	20.11	21.3	0		
15	QPSK	50	0	20.23	20.18	20.20	20.24	20.30	21.3	0		
15	QPSK	50	24	20.17	20.11	20.23	20.21	20.23	21.3	0		
15	QPSK	50	28	20.17	20.11	20.23	20.21	20.23	21.3	0		
15	QPSK	75	0	20.09	20.11	20.23	20.23	20.23	21.3	0		
15	16QAM	1	0	20.15	20.13	20.25	20.14	20.27	21.3	0		
15	16QAM	1	49	20.11	20.25	20.33	20.19	20.25	21.3	0		
15	16QAM	1	74	20.10	20.21	20.35	20.19	20.17	21.3	0		
15	16QAM	30	0	20.18	20.14	20.19	20.27	20.13	21.3	0		
15	16QAM	30	24	20.14	20.18	20.21	20.19	20.26	21.3	0		
15	16QAM	30	50	20.14	19.99	20.24	20.20	20.31	21.3	0		
15	16QAM	75	0	20.15	20.05	20.30	20.13	20.08	21.3	0		
15	16QAM	75	24	20.15	20.05	20.30	20.13	20.08	21.3	0		
15	16QAM	75	49	20.07	20.11	20.25	20.14	20.08	21.3	0		
15	16QAM	1	74	20.19	20.19	20.21	20.22	20.22	21.3	0		
15	16QAM	30	0	20.26	20.27	20.19	20.25	20.26	21.3	0		
15	16QAM	30	24	20.16	20.14	20.24	20.15	20.11	21.3	0.3		
15	16QAM	30	50	20.14	20.06	20.27	20.20	20.22	21.3	0		
15	16QAM	75	0	20.14	20.05	20.33	20.17	20.18	21.3	0		
15	256QAM	1	0	18.14	18.18	18.31	18.19	18.22	19.1	2.3		
15	256QAM	1	49	18.29	18.19	18.42	18.36	18.18	19.1	2.3		
15	256QAM	1	98	18.34	18.33	18.33	18.38	18.21	19.1	2.3		
15	256QAM	50	0	18.15	18.28	18.25	18.20	18.20	19.1	2.3		
15	256QAM	50	24	18.36	18.30	18.41	18.35	18.26	19.1	2.3		
15	256QAM	50	50	18.32	18.15	18.30	18.20	18.24	19.1	2.3		
15	256QAM	75	0	18.32	18.28	18.37	18.33	18.19	19.1	2.3		
Channel				39760	40160	40620	41080	41600	Time-up (min)		MFR (dB)	
Frequency (MHz)				20.25	20.65	20.95	21.35	21.75			19.1	
10	QPSK	1	0	20.25	20.21	20.33	20.34	20.28	21.3	0		
10	QPSK	1	25	20.19	20.15	20.33	20.20	20.17	21.3	0		
10	QPSK	1	50	20.18	20.19	20.33	20.29	20.21	21.3	0		
10	QPSK	25	0	20.25	20.17	20.30	20.28	20.28	21.3	0		
10	QPSK	25	12	20.21	20.18	20.30	20.22	20.28	21.3	0		
10	QPSK	25	25	20.22	20.19	20.30	20.22	20.28	21.3	0		
10	QPSK	50	0	20.15	20.12	20.25	20.21	20.14	21.3	0		
10	16QAM	1	0	20.12	20.20	20.25	20.14	20.22	21.3	0		
10	16QAM	1	49	20.22	20.24	20.35	20.32	20.16	21.3	0		
10	16QAM	25	0	20.07	20.05	20.14	20.22	20.21	21.3	0		
10	16QAM	25	12	20.21	20.19	20.19	20.15	20.25	21.3	0		
10	16QAM	25	25	20.11	20.07	20.18	20.09	20.22	21.3	0		
10	16QAM	50	0	20.23	20.05	20.28	20.21	20.06	21.3	0		
10	16QAM	50	1	20.18	20.13	20.28	20.18	20.19	21.3	0		
10	16QAM	50	1	20.18	20.13	20.28	20.18	20.19	21.3	0		
10	16QAM	1	49	20.28	20.12	20.22	20.24	20.21	21.3	0		
10	16QAM	25	0	20.13	20.19	20.20	20.17	20.28	21.3	0		
10	16QAM	25	12	20.13	20.14	20.17	20.22	20.20	21.3	0.3		
10	16QAM	25	25	20.14	20.04	20.30	20.22	20.25	21.3	0		
10	256QAM	1	0	18.20	18.26	18.29	18.19	18.19	19.1	2.3		
10	256QAM	1	25	18.28	18.32	18.41	18.36	18.29	19.1	2.3		
10	256QAM	1	50	18.22	18.37	18.33	18.37	18.24	19.1	2.3		
10	256QAM	25	0	18.17	18.18	18.19	18.25	18.28	19.1	2.3		
10	256QAM	25	12	18.34	18.31	18.42	18.35	18.24	19.1	2.3		
10	256QAM	25	25	18.32	18.15	18.30	18.20	18.24	19.1	2.3		
10	256QAM	50	0	18.20	18.32	18.41	18.30	18.25	19.1	2.3		
Channel				39760	40160	40620	41080	41600	Time-up (min)		MFR (dB)	
Frequency (MHz)				20.25	20.65	20.95	21.35	21.75			19.1	
5	QPSK	1	0	20.22	20.16	20.34	20.20	20.27	21.3	0		
5	QPSK	1	12	20.26	20.07	20.34	20.10	20.19	21.3	0		
5	QPSK	1	24	20.21	20.11	20.14	20.25	20.24	21.3	0		
5	QPSK	12	0	20.21	20.18	20.30	20.20	20.28	21.3	0		
5	QPSK	12	7	20.26	20.18	20.14	20.19	20.16	21.3	0		
5	QPSK	12	14	20.21	20.13	20.26	20.19	20.21	21.3	0		
5	QPSK	25	0	20.08	20.18	20.15	20.18	20.18	21.3	0		
5	16QAM	1	0	20.23	20.21	20.32	20.13	20.28	21.3	0		
5	16QAM	1	12	20.27	20.10	20.32	20.30	20.18	21.3	0		
5	16QAM	1	24	20.10	20.19	20.32	20.30	20.18	21.3	0		
5	16QAM	12	0	20.16	20.07	20.19	20.18	20.20	21.3	0		
5	16QAM	12	7	20.20	20.19	20.21	20.14	20.20	21.3	0		
5	16QAM	12	14	20.2								



n2_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)								
20	P12 BPSK	1	1	22.74	22.68	22.71		
20	P12 BPSK	1	53	22.67	22.60	22.65	24.0	0.0
20	P12 BPSK	1	104	22.60	22.68	22.72		
20	P12 BPSK	50	0	22.62	22.57	22.61	24.0	0.0
20	P12 BPSK	50	28	22.65	22.59	22.65	24.0	0.0
20	P12 BPSK	50	56	22.66	22.60	22.61		
20	P12 BPSK	100	0	22.67	22.59	22.61	24.0	0.0
20	QPSK	1	1	22.70	22.61	22.71		
20	QPSK	1	53	22.72	22.70	22.74	24.0	0.0
20	QPSK	1	104	22.70	22.72	22.74		
20	QPSK	50	0	22.69	22.62	22.65	24.0	0.0
20	QPSK	50	28	22.68	22.71	22.69	24.0	0.0
20	QPSK	50	56	22.81	22.58	22.59	24.0	0.0
20	QPSK	100	0	22.67	22.70	22.65		
20	BQAM	1	1	22.74	22.65	22.74	24.0	0.0
20	BQAM	1	1	21.88	21.80	21.85	22.0	2.0
20	ZSSBAM	1	1	20.08	19.95	20.00	21.0	3.0
Channel				18100	18100	18100		
Frequency (MHz)								
15	QPSK	1	1	22.73	22.70	22.73	24.0	0.0
Channel				18100	18100	18100		
Frequency (MHz)								
10	QPSK	1	1	22.69	22.58	22.67	24.0	0.0
Channel				18100	18100	18100		
Frequency (MHz)								
5	QPSK	1	1	22.65	22.60	22.62	24.0	0.0

n2_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)								
20	P12 BPSK	1	1	15.48	15.48	15.47		
20	P12 BPSK	1	53	15.42	15.44	15.48	17.0	0.0
20	P12 BPSK	1	104	15.41	15.56	15.35		
20	P12 BPSK	50	0	15.44	15.52	15.36	17.0	0.0
20	P12 BPSK	50	28	15.48	15.46	15.42	17.0	0.0
20	P12 BPSK	50	56	15.49	15.54	15.41		
20	P12 BPSK	100	0	15.41	15.48	15.48	17.0	0.0
20	QPSK	1	1	15.52	15.59	15.50		
20	QPSK	1	53	15.50	15.54	15.47	17.0	0.0
20	QPSK	1	104	15.51	15.55	15.38		
20	QPSK	50	0	15.49	15.55	15.45	17.0	0.0
20	QPSK	50	28	15.52	15.57	15.48	17.0	0.0
20	QPSK	50	56	15.38	15.46	15.39	17.0	0.0
20	QPSK	100	0	15.43	15.46	15.43		
20	BQAM	1	1	15.48	15.59	15.35	17.0	0.0
20	BQAM	1	1	15.38	15.47	15.48	17.0	0.0
20	ZSSBAM	1	1	15.20	15.40	15.45	17.0	0.0
Channel				18100	18100	18100		
Frequency (MHz)								
15	QPSK	1	1	15.40	15.51	15.46	17.0	0.0
Channel				18100	18100	18100		
Frequency (MHz)								
10	QPSK	1	1	15.45	15.46	15.37	17.0	0.0
Channel				18100	18100	18100		
Frequency (MHz)								
5	QPSK	1	1	15.40	15.48	15.43	17.0	0.0

n2_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376000	380000		
Frequency (MHz)								
20	P12 BPSK	1	1	20.22	20.17	20.18		
20	P12 BPSK	1	53	20.22	20.19	20.11	22.0	0.0
20	P12 BPSK	1	104	20.00	20.15	20.17		
20	P12 BPSK	50	0	20.15	20.18	20.21	22.0	0.0
20	P12 BPSK	50	28	20.21	20.18	20.14	22.0	0.0
20	P12 BPSK	50	56	20.20	20.26	20.12		
20	P12 BPSK	100	0	20.10	20.26	20.12	22.0	0.0
20	QPSK	1	1	20.24	20.28	20.25		
20	QPSK	1	53	20.19	20.26	20.09	22.0	0.0
20	QPSK	1	104	20.23	20.25	20.07		
20	QPSK	50	0	20.20	20.21	20.09	22.0	0.0
20	QPSK	50	28	20.21	20.25	20.20	22.0	0.0
20	QPSK	50	56	20.09	20.21	20.14	22.0	0.0
20	QPSK	100	0	20.18	20.21	20.11		
20	BQAM	1	1	20.17	20.27	20.11	22.0	0.0
20	BQAM	1	1	20.11	20.27	20.11	21.5	0.5
20	ZSSBAM	1	1	18.88	18.93	18.40	19.5	2.5
Channel				18100	18100	18100		
Frequency (MHz)								
15	QPSK	1	1	20.21	20.24	20.18	22.0	0.0
Channel				18100	18100	18100		
Frequency (MHz)								
10	QPSK	1	1	20.22	20.17	20.22	22.0	0.0
Channel				18100	18100	18100		
Frequency (MHz)								
5	QPSK	1	1	20.18	20.16	20.15	22.0	0.0



n5_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				844	846.5	848				
20	PUSC-BPSK	1	1	22.80	22.82	22.77				
20	PUSC-BPSK	1	53	22.87	22.84	22.88	24.0	0.0		
20	PUSC-BPSK	1	104	22.86	22.85	22.87				
20	PUSC-BPSK	50	0	22.71	22.71	22.83	23.5	0.5		
20	PUSC-BPSK	50	28	22.68	22.68	22.88	24.0	0.0		
20	PUSC-BPSK	50	56	22.59	22.59	22.84				
20	PUSC-BPSK	100	0	22.72	22.73	22.87	23.5	0.5		
20	QPSK	1	1	22.90	22.84	22.77				
20	QPSK	1	53	22.72	22.68	22.84	24.0	0.0		
20	QPSK	1	104	22.58	22.58	22.85				
20	QPSK	50	0	22.70	22.74	22.70	23.0	1.0		
20	QPSK	50	28	22.75	22.70	22.75	24.0	0.0		
20	QPSK	50	56	22.80	22.58	22.84	23.0	1.0		
20	QPSK	100	0	22.81	22.57	22.84				
20	16QAM	1	1	22.51	22.50	22.44	23.0	1.0		
20	16QAM	1	1	21.42	21.42	21.36	21.5	2.5		
20	256QAM	1	1	19.33	19.33	19.27	19.5	4.5		
Channel										
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)		
15	QPSK	1	1	22.70	22.71	22.63	24.0	0.0		
Channel										
Frequency (MHz)				820	836.5	844	(dBm)	(dB)		
10	QPSK	1	1	22.70	22.67	22.69	24.0	0.0		
Channel										
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)		
5	QPSK	1	1	22.72	22.73	22.67	24.0	0.0		

n5_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				844	846.5	848				
20	PUSC-BPSK	1	1	22.80	22.80	22.86				
20	PUSC-BPSK	1	53	22.81	22.49	22.80	24.0	0.0		
20	PUSC-BPSK	1	104	22.80	22.46	22.44				
20	PUSC-BPSK	50	0	22.59	22.56	22.54	23.5	0.5		
20	PUSC-BPSK	50	28	22.59	22.54	22.50	24.0	0.0		
20	PUSC-BPSK	50	56	22.52	22.47	22.44				
20	PUSC-BPSK	100	0	22.53	22.49	22.49	23.5	0.5		
20	QPSK	1	1	22.85	22.83	22.81				
20	QPSK	1	53	22.85	22.86	22.82	24.0	0.0		
20	QPSK	1	104	22.88	22.82	22.80				
20	QPSK	50	0	22.50	22.83	22.83	23.0	1.0		
20	QPSK	50	28	22.51	22.80	22.81	24.0	0.0		
20	QPSK	50	56	22.47	22.44	22.43	23.0	1.0		
20	QPSK	100	0	22.47	22.46	22.43				
20	16QAM	1	1	20.59	20.59	20.55	23.0	1.0		
20	16QAM	1	1	20.68	20.67	20.84	21.5	2.5		
20	256QAM	1	1	18.05	18.07	18.00	19.5	4.5		
Channel										
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)		
15	QPSK	1	1	22.85	22.47	22.46	24.0	0.0		
Channel										
Frequency (MHz)				820	836.5	844	(dBm)	(dB)		
10	QPSK	1	1	22.84	22.40	22.44	24.0	0.0		
Channel										
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)		
5	QPSK	1	1	22.81	22.43	22.49	24.0	0.0		

n7_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2500	2635	2660				
40	PUSC-BPSK	1	1	22.16	22.20	22.23				
40	PUSC-BPSK	1	108	22.11	22.28	22.24	23.0	0.0		
40	PUSC-BPSK	1	214	22.11	22.34	22.25				
40	PUSC-BPSK	108	0	22.17	22.25	22.23	23.0	0.0		
40	PUSC-BPSK	108	54	22.10	22.20	22.27	23.0	0.0		
40	PUSC-BPSK	108	108	22.10	22.30	22.26	23.0	0.0		
40	PUSC-BPSK	216	0	22.12	22.28	22.25				
40	QPSK	1	1	22.21	22.35	22.30				
40	QPSK	1	108	22.21	22.31	22.27	23.0	0.0		
40	QPSK	1	214	22.12	22.33	22.27				
40	QPSK	108	0	22.13	22.30	22.21	23.0	0.0		
40	QPSK	108	54	22.11	22.32	22.23	23.0	0.0		
40	QPSK	108	108	22.15	22.21	22.18	23.0	0.0		
40	QPSK	216	0	22.14	22.29	22.20				
40	16QAM	1	1	20.10	22.31	22.27	23.0	0.0		
40	16QAM	1	1	21.88	21.74	21.81	22.0	1.0		
40	256QAM	1	1	19.84	19.99	20.00	21.0	2.0		
Channel										
Frequency (MHz)				2600	2635	2660	(dBm)	(dB)		
30	QPSK	1	1	22.18	22.34	22.16	23.0	0.0		
Channel										
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)		
20	QPSK	1	1	22.24	22.29	22.27	23.0	0.0		
Channel										
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)		
20	QPSK	1	1	22.15	22.29	22.13	23.0	0.0		
Channel										
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)		
15	QPSK	1	1	22.19	22.34	22.22	23.0	1.0		
Channel										
Frequency (MHz)				2500	2535	2560	(dBm)	(dB)		
10	QPSK	1	1	22.19	22.21	22.22	23.0	1.0		
Channel										
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)		
5	QPSK	1	1	22.18	22.30	22.23	23.0	0.0		



n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mids Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PUSC	1	1	17.73	17.71	17.62			
40	PUSC	1	108	17.64	17.72	17.67	18.5	0.0	
40	PUSC	1	214	17.60	17.68	17.62			
40	PUSC	108	0	17.64	17.78	17.64	18.5	0.0	
40	PUSC	108	54	17.64	17.71	17.65	18.5	0.0	
40	PUSC	108	108	17.73	17.78	17.68	18.5	0.0	
40	PUSC	216	0	17.74	17.68	17.68			
40	QPSK	1	1	17.75	17.65	17.72			
40	QPSK	1	108	17.66	17.71	17.61	18.5	0.0	
40	QPSK	1	214	17.71	17.68	17.61			
40	QPSK	108	0	17.65	17.71	17.67	18.5	0.0	
40	QPSK	108	54	17.66	17.73	17.63	18.5	0.0	
40	QPSK	108	108	17.84	17.72	17.68	18.5	0.0	
40	QPSK	216	0	17.82	17.65	17.67			
40	8QAM	1	1	17.73	17.65	17.68	18.5	0.0	
40	8QAM	1	1	17.80	17.68	17.68	18.5	0.0	
40	25QAM	1	1	17.74	17.73	17.63	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.68	17.72	17.63	18.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	17.74	17.71	17.63	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.63	17.73	17.63	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.68	17.67	17.63	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.61	17.73	17.62	18.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.61	17.69	17.60	18.5	0.0	

n7_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PUSC	1	1	18.90	18.97	18.97			
40	PUSC	1	108	18.85	18.95	18.95	20.5	0.0	
40	PUSC	1	214	18.83	18.92	18.87			
40	PUSC	108	0	18.91	18.96	18.99	20.5	0.0	
40	PUSC	108	54	18.91	18.95	18.89	20.5	0.0	
40	PUSC	108	108	19.00	18.94	18.85	20.5	0.0	
40	PUSC	216	0	18.92	18.91	18.85			
40	QPSK	1	1	19.03	18.98	19.03			
40	QPSK	1	108	18.90	18.95	18.85	20.5	0.0	
40	QPSK	1	214	18.89	18.90	18.87			
40	QPSK	108	0	18.92	18.93	18.89	20.5	0.0	
40	QPSK	108	54	19.03	19.03	18.95	20.5	0.0	
40	QPSK	108	108	18.99	18.98	18.94	20.5	0.0	
40	QPSK	216	0	18.92	18.90	18.97			
40	8QAM	1	1	18.85	18.91	18.94	20.5	0.0	
40	8QAM	1	1	18.96	18.91	18.92	20.5	0.0	
40	25QAM	1	1	18.95	18.89	18.84	19.5	1.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.85	18.91	18.90	20.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.93	18.91	18.81	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.85	18.84	18.97	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.80	18.88	18.92	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.80	18.94	18.94	20.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.90	18.97	18.92	20.5	0.0	

n66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mids Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PUSC	1	1	22.81	22.73	22.67			
40	PUSC	1	108	22.75	22.68	22.61	24.0	0.0	
40	PUSC	1	214	22.76	22.72	22.66			
40	PUSC	108	0	22.68	22.64	22.49	23.5	0.5	
40	PUSC	108	54	22.65	22.58	22.43	24.0	0.0	
40	PUSC	108	108	22.71	22.61	22.43	23.5	0.5	
40	PUSC	216	0	22.73	22.66	22.47			
40	QPSK	1	1	22.77	22.65	22.57			
40	QPSK	1	108	22.76	22.71	22.56	24.0	0.0	
40	QPSK	1	214	22.76	22.68	22.53			
40	QPSK	108	0	22.70	22.70	22.55	23.0	1.0	
40	QPSK	108	54	22.75	22.64	22.51	24.0	0.0	
40	QPSK	108	108	22.73	22.64	22.44	23.0	1.0	
40	QPSK	216	0	22.64	22.70	22.58			
40	8QAM	1	1	22.75	22.68	22.48	23.0	1.0	
40	8QAM	1	1	21.75	21.68	21.50	22.0	2.0	
40	25QAM	1	1	20.34	20.28	20.08	21.0	3.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.71	22.67	22.48	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.79	22.71	22.43	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.80	22.63	22.46	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.79	22.72	22.44	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.75	22.68	22.42	24.0	0.0	



n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MFR (dB)	
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.			
Channel				1800	1745	1700			
Frequency (MHz)									
40	RU BPSK	1	1	15.73	15.84	15.73			
40	RU BPSK	1	108	15.75	15.80	15.72	17.0	0.0	
40	RU BPSK	1	214	15.70	15.79	15.64			
40	RU BPSK	108	0	15.73	15.78	15.71	17.0	0.0	
40	RU BPSK	108	54	15.65	15.83	15.70	17.0	0.0	
40	RU BPSK	108	108	15.75	15.81	15.68			
40	RU BPSK	216	0	15.71	15.84	15.64	17.0	0.0	
40	QPSK	1	1	15.05	15.05	15.75			
40	QPSK	1	108	15.69	15.82	15.78	17.0	0.0	
40	QPSK	1	214	15.76	15.81	15.83			
40	QPSK	108	0	15.73	15.80	15.70	17.0	0.0	
40	QPSK	108	54	15.77	15.83	15.74	17.0	0.0	
40	QPSK	108	108	15.87	15.79	15.84	17.0	0.0	
40	QPSK	216	0	15.72	15.73	15.71			
40	MQAM	1	1	15.71	15.74	15.77	17.0	0.0	
40	MQAM	1	1	15.76	15.71	15.65	17.0	0.0	
40	256QAM	1	1	15.66	15.75	15.67	17.0	0.0	
Channel				15000	15000	15000			
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	15.68	15.74	15.70	17.0	0.0	
Channel				16000	16000	16000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	15.71	15.84	15.76	17.0	0.0	
Channel				16500	16500	16500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	15.67	15.77	15.72	17.0	0.0	
Channel				163000	163000	163000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.69	15.84	15.87	17.0	0.0	
Channel				162000	162000	162000			
Frequency (MHz)				1722.5	1745	1777.5			
5	QPSK	1	1	15.66	15.82	15.75	17.0	0.0	

n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MFR (dB)	
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.			
Channel				1740	1745	1740			
Frequency (MHz)									
40	RU BPSK	1	1	19.35	19.51	19.35			
40	RU BPSK	1	108	19.40	19.43	19.46	21.0	0.0	
40	RU BPSK	1	214	19.41	19.52	19.40			
40	RU BPSK	108	0	19.41	19.53	19.48	21.0	0.0	
40	RU BPSK	108	54	19.34	19.45	19.37	21.0	0.0	
40	RU BPSK	108	108	19.42	19.47	19.30	21.0	0.0	
40	RU BPSK	216	0	19.33	19.48	19.43	21.0	0.0	
40	QPSK	1	1	19.45	19.55	19.50			
40	QPSK	1	108	19.37	19.50	19.40	21.0	0.0	
40	QPSK	1	214	19.47	19.54	19.46			
40	QPSK	108	0	19.35	19.43	19.35	21.0	0.0	
40	QPSK	108	54	19.43	19.52	19.35	21.0	0.0	
40	QPSK	108	108	19.39	19.50	19.41	21.0	0.0	
40	QPSK	216	0	19.35	19.41	19.37			
40	MQAM	1	1	19.47	19.51	19.48	21.0	0.0	
40	MQAM	1	1	19.45	19.44	19.48	21.0	0.0	
40	256QAM	1	1	19.34	19.35	19.18	19.5	1.5	
Channel				16500	16500	16500			
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	19.34	19.40	19.35	21.0	0.0	
Channel				16000	16000	16000			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	19.37	19.53	19.36	21.0	0.0	
Channel				16500	16500	16500			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	19.43	19.42	19.43	21.0	0.0	
Channel				163000	163000	163000			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.35	19.51	19.48	21.0	0.0	
Channel				162000	162000	162000			
Frequency (MHz)				1722.5	1745	1777.5			
5	QPSK	1	1	19.40	19.52	19.40	21.0	0.0	



n38_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2150	2150	2150			
40	PQ2 BPSK	1	1	21.52	21.58	21.50			
40	PQ2 BPSK	1	63	21.45	21.48	21.42	22.5	0.0	
40	PQ2 BPSK	1	104	21.43	21.58	21.48			
40	PQ2 BPSK	50	0	21.49	21.58	21.45	22.5	0.0	
40	PQ2 BPSK	50	38	21.55	21.58	21.43	22.5	0.0	
40	PQ2 BPSK	50	58	21.43	21.54	21.54	22.5	0.0	
40	PQ2 BPSK	100	0	21.54	21.59	21.48			
40	QPSK	1	1	21.52	21.62	21.50			
40	QPSK	1	63	21.44	21.54	21.52	22.5	0.0	
40	QPSK	1	104	21.43	21.48	21.49			
40	QPSK	50	0	21.50	21.57	21.48			
40	QPSK	50	38	21.57	21.58	21.57	22.5	0.0	
40	QPSK	50	58	21.49	21.52	21.51			
40	QPSK	100	0	21.48	21.55	21.49	22.5	0.0	
40	8QAM	1	1	21.52	21.55	21.44	22.5	0.0	
40	8QAM	1	1	21.52	21.51	21.47	22.5	0.0	
40	256QAM	1	1	20.12	20.38	20.18	21.0	1.5	
Channel									
Frequency (MHz)				21500	21500	21500	Tune-up Int. (dBm)	MPR (dB)	
30	QPSK	1	1	21.48	21.54	21.53	22.5	0.0	
Channel									
Frequency (MHz)				21500	21500	21500	Tune-up Int. (dBm)	MPR (dB)	
20	QPSK	1	1	21.51	21.54	21.45	22.5	0.0	
Channel									
Frequency (MHz)				21500	21500	21500	Tune-up Int. (dBm)	MPR (dB)	
15	QPSK	1	1	21.54	21.50	21.40	22.5	0.0	
Channel									
Frequency (MHz)				21500	21500	21500	Tune-up Int. (dBm)	MPR (dB)	
10	QPSK	1	1	21.52	21.59	21.54	22.5	0.0	

n38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2150	2150	2150			
40	PQ2 BPSK	1	1	18.58	18.63	18.57			
40	PQ2 BPSK	1	63	18.59	18.68	18.51	19.5	0.0	
40	PQ2 BPSK	1	104	18.53	18.65	18.58			
40	PQ2 BPSK	50	0	18.60	18.69	18.63	19.5	0.0	
40	PQ2 BPSK	50	38	18.48	18.69	18.59	19.5	0.0	
40	PQ2 BPSK	50	58	18.48	18.64	18.54	19.5	0.0	
40	PQ2 BPSK	100	0	18.51	18.68	18.62			
40	QPSK	1	1	18.53	18.71	18.65			
40	QPSK	1	63	18.63	18.64	18.57	19.5	0.0	
40	QPSK	1	104	18.61	18.67	18.58			
40	QPSK	50	0	18.54	18.62	18.64			
40	QPSK	50	38	18.57	18.67	18.67	19.5	0.0	
40	QPSK	50	58	18.54	18.58	18.62			
40	QPSK	100	0	18.60	18.63	18.65	19.5	0.0	
40	8QAM	1	1	18.51	18.59	18.52	19.5	0.0	
40	8QAM	1	1	18.57	18.63	18.63	19.5	0.0	
40	256QAM	1	1	18.58	18.58	18.53	19.5	0.0	
Channel									
Frequency (MHz)				21500	21500	21500	Tune-up Int. (dBm)	MPR (dB)	
30	QPSK	1	1	18.58	18.65	18.58	19.5	0.0	
Channel									
Frequency (MHz)				21500	21500	21500	Tune-up Int. (dBm)	MPR (dB)	
20	QPSK	1	1	18.51	18.66	18.64	19.5	0.0	
Channel									
Frequency (MHz)				21500	21500	21500	Tune-up Int. (dBm)	MPR (dB)	
15	QPSK	1	1	18.59	18.65	18.60	19.5	0.0	
Channel									
Frequency (MHz)				21500	21500	21500	Tune-up Int. (dBm)	MPR (dB)	
10	QPSK	1	1	18.49	18.59	18.65	19.5	0.0	



n38_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mode Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	P1/2 BPSK	1	1	18.81	18.82	18.79		
40	P1/2 BPSK	1	53	18.70	18.73	18.73	20.5	0.0
40	P1/2 BPSK	1	104	18.73	18.77	18.68		
40	P1/2 BPSK	50	9	18.75	18.74	18.77	20.5	0.0
40	P1/2 BPSK	50	28	18.72	18.83	18.79	20.5	0.0
40	P1/2 BPSK	50	99	18.68	18.77	18.77	20.5	0.0
40	P1/2 BPSK	100	9	18.81	18.80	18.74		
40	QPSK	1	1	18.82	18.85	18.81	20.5	0.0
40	QPSK	1	53	18.70	18.70	18.78		
40	QPSK	1	104	18.71	18.84	18.68		
40	QPSK	50	9	18.72	18.71	18.70		
40	QPSK	50	28	18.75	18.84	18.79	20.5	0.0
40	QPSK	50	99	18.75	18.72	18.70		
40	QPSK	100	9	18.72	18.81	18.72	20.5	0.0
40	16QAM	1	1	18.80	18.70	18.77	20.5	0.0
40	64QAM	1	1	18.75	18.70	18.73	20.5	0.0
40	256QAM	1	1	18.22	18.28	18.28	19.5	1.0
Channel								
Frequency (MHz)								
30								
Channel								
Frequency (MHz)								
20								
Channel								
Frequency (MHz)								
15								
Channel								
Frequency (MHz)								
10								
Channel								
Frequency (MHz)								
5								

FCC_n41_Ant2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mode Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P1/2 BPSK	1	1	21.63	21.69	21.64		
100	P1/2 BPSK	1	137	21.56	21.73	21.59	22.5	0.0
100	P1/2 BPSK	1	271	21.89	21.66	21.85		
100	P1/2 BPSK	135	9	21.65	21.71	21.60	22.5	0.0
100	P1/2 BPSK	135	66	21.56	21.75	21.64	22.5	0.0
100	P1/2 BPSK	135	138	21.63	21.74	21.81	22.5	0.0
100	P1/2 BPSK	270	9	21.62	21.65	21.68		
100	QPSK	1	1	21.70	21.70	21.70	22.5	0.0
100	QPSK	1	137	21.56	21.63	21.68		
100	QPSK	1	271	21.59	21.82	21.64		
100	QPSK	135	9	21.66	21.81	21.67		
100	QPSK	135	66	21.57	21.74	21.68	22.5	0.0
100	QPSK	135	138	21.64	21.72	21.86		
100	QPSK	270	9	21.65	21.73	21.60	22.5	0.0
100	16QAM	1	1	21.59	21.72	21.63	22.5	0.0
100	64QAM	1	1	21.67	21.74	21.70	22.5	0.0
100	256QAM	1	1	20.31	20.25	20.25	21.0	1.5
Channel								
Frequency (MHz)								
80								
Channel								
Frequency (MHz)								
60								
Channel								
Frequency (MHz)								
40								
Channel								
Frequency (MHz)								
20								
Channel								
Frequency (MHz)								
10								
Channel								
Frequency (MHz)								
5								



Par27Q n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.19	20.19				
100	PI2 BPSK	1	137	20.20			21.0	0.0	
100	PI2 BPSK	1	271	20.18					
100	PI2 BPSK	135	0	20.15			21.0	0.0	
100	PI2 BPSK	135	66	20.20					
100	PI2 BPSK	135	139	20.19			21.0	0.0	
100	PI2 BPSK	270	0	20.18					
100	QPSK	1	1	20.25					
100	QPSK	1	137	20.19			21.0	0.0	
100	QPSK	1	271	20.13					
100	QPSK	135	0	20.13					
100	QPSK	135	66	20.22			21.0	0.0	
100	QPSK	135	138	20.13					
100	QPSK	270	0	20.19			21.0	0.0	
100	16QAM	1	1	20.18			21.0	0.0	
100	64QAM	1	1	20.22			21.0	0.0	
100	256QAM	1	1	20.15			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.11	20.23	20.16	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.17	20.21	20.19	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.18	20.17	20.17	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.20	20.17	20.15	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.11	20.21	20.19	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.21	20.18	20.16	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.21	20.20	20.18	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.21	20.12	20.13	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.12	20.22	20.23	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.16	20.18	20.11	21.0	0.0	

Par27Q n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.37					
100	PI2 BPSK	1	137	17.45			18.5	0.0	
100	PI2 BPSK	1	271	17.38					
100	PI2 BPSK	135	0	17.46			18.5	0.0	
100	PI2 BPSK	135	66	17.36					
100	PI2 BPSK	135	138	17.46			18.5	0.0	
100	PI2 BPSK	270	0	17.41					
100	QPSK	1	1	17.50					
100	QPSK	1	137	17.40			18.5	0.0	
100	QPSK	1	271	17.38					
100	QPSK	135	0	17.44					
100	QPSK	135	66	17.45			18.5	0.0	
100	QPSK	135	138	17.39					
100	QPSK	270	0	17.47			18.5	0.0	
100	16QAM	1	1	17.36			18.5	0.0	
100	64QAM	1	1	17.45			18.5	0.0	
100	256QAM	1	1	17.40			18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.48	21.53	21.49	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.88	21.72	21.55	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.81	21.69	21.63	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.55	21.64	21.60	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.70	21.78	21.61	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.84	21.70	21.62	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.62	21.75	21.55	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.50	21.73	21.47	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.49	21.70	21.45	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.47	21.64	21.42	18.5	0.0	



Reduced Power Mode for DSI 4

DSI001_Ant 0	Back-Average Power (dBm)			Front-Average Power (dBm)		
	TX Channel	Limit	Limit	TX Channel	Limit	Limit
Frequency (MHz)	150	180	205	150	180	205
GSM 1 Tx slot	32.92	32.43	32.81	33.89	33.40	33.78
GPRS 1 Tx slot	32.91	32.43	32.81	33.89	33.40	33.81
EDGE 1 Tx slot	32.92	32.43	32.81	33.89	33.40	33.81
GPRS 3 Tx slot	28.88	28.70	28.53	29.89	29.44	29.27
GPRS 4 Tx slot	28.89	27.61	28.85	29.89	29.41	29.85
EDGE 1 Tx slot	28.89	28.63	28.69	29.89	29.43	29.89
EDGE 2 Tx slot	25.04	24.58	24.82	25.99	25.54	25.92
EDGE 3 Tx slot	23.28	23.22	23.04	23.99	23.96	23.78
EDGE 4 Tx slot	21.28	21.15	21.10	21.99	21.96	21.92

DSI002_Ant 2	Back-Average Power (dBm)			Front-Average Power (dBm)		
	TX Channel	Limit	Limit	TX Channel	Limit	Limit
Frequency (MHz)	1852	1870	1909	1852	1870	1909
GSM 1 Tx slot	29.76	29.84	29.82	30.76	30.84	30.82
GPRS 1 Tx slot	29.73	29.61	29.78	30.69	30.61	30.78
GPRS 2 Tx slot	27.40	27.55	27.47	27.89	27.40	27.47
GPRS 3 Tx slot	25.99	25.78	25.71	26.89	26.43	26.45
GPRS 4 Tx slot	24.13	24.22	24.27	24.99	24.13	24.27
EDGE 1 Tx slot	23.92	23.94	23.98	24.99	24.94	24.98
EDGE 2 Tx slot	22.68	22.67	22.63	23.69	23.67	23.63
EDGE 3 Tx slot	22.68	22.55	22.77	23.69	23.42	23.51
EDGE 4 Tx slot	20.30	20.20	20.34	21.69	21.55	21.54

Band	WCDMA IV_Ant 2			WCDMA IV_Ant 1		
	TX Channel	Limit	Limit	TX Channel	Limit	Limit
Frequency (MHz)	1852	1860	1858	1852	1860	1858
SCPP Rel 99	AMR 12.2Kbps	23.94	23.99	24.00	23.13	23.19
SCPP Rel 99	RMC 12.2Kbps	22.94	23.12	22.99	24.00	22.14
SCPP Rel 6	HSDPA Subcat-1	21.90	22.00	22.11	23.00	21.47
SCPP Rel 6	HSDPA Subcat-2	21.90	22.00	22.11	23.00	21.47
SCPP Rel 6	HSDPA Subcat-3	21.44	21.53	21.59	22.50	20.54
SCPP Rel 6	HSDPA Subcat-4	21.43	21.53	21.84	22.50	20.57
SCPP Rel 6	DCHSDPA Subcat-1	21.88	21.88	22.00	23.00	21.47
SCPP Rel 6	DCHSDPA Subcat-2	21.93	22.04	22.09	23.00	21.07
SCPP Rel 6	DCHSDPA Subcat-3	21.44	21.51	21.57	22.50	20.54
SCPP Rel 6	DCHSDPA Subcat-4	21.41	21.51	21.62	22.50	20.57
SCPP Rel 6	HSPA Subcat-1	21.94	22.01	22.17	23.00	21.48
SCPP Rel 6	HSPA Subcat-2	20.00	19.99	20.16	21.00	19.16
SCPP Rel 6	HSPA Subcat-3	21.02	21.03	21.16	22.00	20.11
SCPP Rel 6	HSPA Subcat-4	19.99	20.04	20.09	21.00	19.13
SCPP Rel 6	HSPA Subcat-5	22.00	22.00	22.00	23.00	21.16

Band	WCDMA IV_Ant 0			WCDMA IV_Ant 1		
	TX Channel	Limit	Limit	TX Channel	Limit	Limit
Frequency (MHz)	1852	1860	1858	1852	1860	1858
SCPP Rel 99	AMR 12.2Kbps	23.93	22.04	22.86	24.00	22.86
SCPP Rel 99	RMC 12.2Kbps	22.96	22.97	22.89	24.00	22.88
SCPP Rel 6	HSDPA Subcat-1	21.92	21.94	21.99	23.00	21.87
SCPP Rel 6	HSDPA Subcat-2	21.95	21.91	21.88	23.00	21.92
SCPP Rel 6	HSDPA Subcat-3	21.45	21.59	21.38	22.50	21.44
SCPP Rel 6	HSDPA Subcat-4	21.46	21.59	21.38	22.50	21.47
SCPP Rel 6	DCHSDPA Subcat-1	21.92	21.88	21.85	23.00	21.89
SCPP Rel 6	DCHSDPA Subcat-2	21.42	21.38	21.35	22.50	21.41
SCPP Rel 6	DCHSDPA Subcat-3	21.45	21.38	21.33	22.50	21.35
SCPP Rel 6	DCHSDPA Subcat-4	21.49	21.49	21.42	22.50	21.42
SCPP Rel 6	HSPA Subcat-1	20.75	20.90	20.84	22.00	20.80
SCPP Rel 6	HSPA Subcat-2	19.96	19.93	19.86	21.00	19.87
SCPP Rel 6	HSPA Subcat-3	20.75	20.90	20.84	22.00	20.80
SCPP Rel 6	HSPA Subcat-4	21.90	21.00	21.80	23.00	21.90
SCPP Rel 6	HSPA Subcat-5	21.90	21.00	21.80	23.00	21.90

Band	WCDMA IV_Ant 2			WCDMA IV_Ant 1		
	TX Channel	Limit	Limit	TX Channel	Limit	Limit
Frequency (MHz)	1852	1860	1858	1852	1860	1858
SCPP Rel 99	AMR 12.2Kbps	23.95	22.99	22.73	24.00	22.14
SCPP Rel 99	RMC 12.2Kbps	22.97	22.80	22.78	24.00	22.14
SCPP Rel 6	HSDPA Subcat-1	21.96	21.72	21.98	23.00	21.33
SCPP Rel 6	HSDPA Subcat-2	22.00	21.78	21.84	23.00	21.37
SCPP Rel 6	HSDPA Subcat-3	21.53	21.20	21.47	22.50	20.60
SCPP Rel 6	HSDPA Subcat-4	21.48	21.20	21.45	22.50	20.64
SCPP Rel 6	DCHSDPA Subcat-1	21.94	21.78	21.84	23.00	21.31
SCPP Rel 6	DCHSDPA Subcat-2	21.98	21.74	21.92	23.00	21.37
SCPP Rel 6	DCHSDPA Subcat-3	21.51	21.21	21.40	22.50	20.66
SCPP Rel 6	DCHSDPA Subcat-4	21.46	21.21	21.43	22.50	20.61
SCPP Rel 6	HSPA Subcat-1	21.97	21.69	21.99	23.00	21.33
SCPP Rel 6	HSPA Subcat-2	20.00	19.21	19.51	21.00	19.22
SCPP Rel 6	HSPA Subcat-3	20.99	20.60	21.00	22.00	20.38
SCPP Rel 6	HSPA Subcat-4	19.99	19.25	19.93	21.00	19.20
SCPP Rel 6	HSPA Subcat-5	22.00	21.80	22.00	23.00	21.40



Band 2_Ant 2											
BW (MHz)	Modulation	RB Spans	RB Offset	Freq Low Ch./F.Freq.	Freq Mid Ch./F.Freq.	Freq High Ch./F.Freq.	Turn-up freq. (MHz)	MPE (dB)			
Channel	Frequency (MHz)	TDD	TSF	TSF	TSF	TSF					
30	QPSK	1	0	22.87	22.92	22.95	24	0			
30	QPSK	1	49	22.88	22.88	22.88					
30	QPSK	1	98	22.89	22.92	22.92					
30	QPSK	50	0	22.87	22.92	22.95					
30	QPSK	50	24	22.96	22.96	22.96	23	1			
30	QPSK	50	49	22.95	22.96	22.96					
30	QPSK	100	0	22.93	22.93	22.93					
30	QPSK	100	1	22.91	22.93	22.98	23	1			
30	QPSK	100	2	22.93	22.96	22.96					
30	QPSK	100	3	22.94	22.96	22.97					
30	QPSK	50	24	22.92	22.92	22.91	23	1			
30	QPSK	50	49	22.92	22.92	22.91					
30	QPSK	100	24	22.95	22.95	22.95	22	2			
30	QPSK	100	49	22.92	22.92	22.92					
30	QPSK	1	99	21.88	21.96	22.01	23	1			
30	QPSK	59	0	21.02	20.99	21.00					
30	QPSK	50	24	21.09	21.09	21.10	22	2			
30	QPSK	50	49	21.04	21.03	21.07					
30	QPSK	100	0	18.69	18.80	18.70	19	5			
30	QPSK	100	1	18.72	18.77	18.71					
30	QPSK	100	2	18.73	18.83	18.83					
30	QPSK	100	3	18.74	18.83	18.86					
30	QPSK	100	4	18.75	18.86	18.83					
30	QPSK	100	5	18.76	18.86	18.85					
30	QPSK	100	6	18.77	18.86	18.83					
30	QPSK	100	7	18.78	18.86	18.83					
30	QPSK	100	8	18.79	18.86	18.83					
30	QPSK	100	9	18.80	18.86	18.83					
30	QPSK	100	10	18.78	18.86	18.72					
30	QPSK	100	11	18.78	18.86	18.72					
30	QPSK	100	12	18.78	18.86	18.72					
30	QPSK	100	13	18.78	18.86	18.72					
30	QPSK	100	14	18.78	18.86	18.72					
30	QPSK	100	15	18.78	18.86	18.72					
30	QPSK	100	16	18.78	18.86	18.72					
30	QPSK	100	17	18.78	18.86	18.72					
30	QPSK	100	18	18.78	18.86	18.72					
30	QPSK	100	19	18.78	18.86	18.72					
30	QPSK	100	20	18.78	18.86	18.72					
30	QPSK	100	21	18.78	18.86	18.72					
30	QPSK	100	22	18.78	18.86	18.72					
30	QPSK	100	23	18.78	18.86	18.72					
30	QPSK	100	24	18.78	18.86	18.72					
30	QPSK	100	25	18.78	18.86	18.72					
30	QPSK	100	26	18.78	18.86	18.72					
30	QPSK	100	27	18.78	18.86	18.72					
30	QPSK	100	28	18.78	18.86	18.72					
30	QPSK	100	29	18.78	18.86	18.72					
30	QPSK	100	30	18.78	18.86	18.72					
30	QPSK	100	31	18.78	18.86	18.72					
30	QPSK	100	32	18.78	18.86	18.72					
30	QPSK	100	33	18.78	18.86	18.72					
30	QPSK	100	34	18.78	18.86	18.72					
30	QPSK	100	35	18.78	18.86	18.72					
30	QPSK	100	36	18.78	18.86	18.72					
30	QPSK	100	37	18.78	18.86	18.72					
30	QPSK	100	38	18.78	18.86	18.72					
30	QPSK	100	39	18.78	18.86	18.72					
30	QPSK	100	40	18.78	18.86	18.72					
30	QPSK	100	41	18.78	18.86	18.72					
30	QPSK	100	42	18.78	18.86	18.72					
30	QPSK	100	43	18.78	18.86	18.72					
30	QPSK	100	44	18.78	18.86	18.72					
30	QPSK	100	45	18.78	18.86	18.72					
30	QPSK	100	46	18.78	18.86	18.72					
30	QPSK	100	47	18.78	18.86	18.72					
30	QPSK	100	48	18.78	18.86	18.72					
30	QPSK	100	49	18.78	18.86	18.72					
30	QPSK	100	50	18.78	18.86	18.72					
30	QPSK	100	51	18.78	18.86	18.72					
30	QPSK	100	52	18.78	18.86	18.72					
30	QPSK	100	53	18.78	18.86	18.72					
30	QPSK	100	54	18.78	18.86	18.72					
30	QPSK	100	55	18.78	18.86	18.72					
30	QPSK	100	56	18.78	18.86	18.72					
30	QPSK	100	57	18.78	18.86	18.72					
30	QPSK	100	58	18.78	18.86	18.72					
30	QPSK	100	59	18.78	18.86	18.72					
30	QPSK	100	60	18.78	18.86	18.72					
30	QPSK	100	61	18.78	18.86	18.72					
30	QPSK	100	62	18.78	18.86	18.72					
30	QPSK	100	63	18.78	18.86	18.72					
30	QPSK	100	64	18.78	18.86	18.72					
30	QPSK	100	65	18.78	18.86	18.72					
30	QPSK	100	66	18.78	18.86	18.72					
30	QPSK	100	67	18.78	18.86	18.72					
30	QPSK	100	68	18.78	18.86	18.72					
30	QPSK	100	69	18.78	18.86	18.72					
30	QPSK	100	70	18.78	18.86	18.72					
30	QPSK	100	71	18.78	18.86	18.72					
30	QPSK	100	72	18.78	18.86	18.72					
30	QPSK	100	73	18.78	18.86	18.72					
30	QPSK	100	74	18.78	18.86	18.72					
30	QPSK	100	75	18.78	18.86	18.72					
30	QPSK	100	76	18.78	18.86	18.72					
30	QPSK	100	77	18.78	18.86	18.72					
30	QPSK	100	78	18.78	18.86	18.72					
30	QPSK	100	79	18.78	18.86	18.72					
30	QPSK	100	80	18.78	18.86	18.72					
30	QPSK	100	81	18.78	18.86	18.72					
30	QPSK	100	82	18.78	18.86	18.72					
30	QPSK	100	83	18.78	18.86	18.72					
30	QPSK	100	84	18.78	18.86	18.72					
30	QPSK	100	85	18.78	18.86	18.72					
30	QPSK	100	86	18.78	18.86	18.72					
30	QPSK	100	87	18.78	18.86	18.72					
30	QPSK	100	88	18.78	18.86	18.72					
30	QPSK	100	89	18.78	18.86	18.72					
30	QPSK	100	90	18.78	18.86	18.72					
30	QPSK	100	91	18.78	18.86	18.72					
30	QPSK	100	92	18.78	18.86	18.72					
30	QPSK	100	93	18.78	18.86	18.72					
30	QPSK	100	94	18.78	18.86	18.72					
30	QPSK	100	95	18.78	18.86	18.72					
30	QPSK	100	96	18.78	18.86	18.72					
30	QPSK	100	97	18.78	18.86	18.72					
30	QPSK	100	98	18.78	18.86	18.72					
30	QPSK	100	99	18.78	18.86	18.72					
30	QPSK	100	100	18.78	18.86	18.72					

Band 2_Ant 1											
BW (MHz)	Modulation	RB Spans	RB Offset	Freq Low Ch./F.Freq.	Freq Mid Ch./F.Freq.	Freq High Ch./F.Freq.	Turn-up freq. (MHz)	MPE (dB)			
Channel	Frequency (MHz)	TDD	TSF	TSF	TSF</						



Band 4_Ant 1

HW (MHz)	Modulation	RB	RB Pch	Power Low Ch / Freqs	Power High Ch / Freqs	Power Hsp Ch / Freqs	Turn-up (min)	MFR (dB)
30	QPSK	1	0	22.31	22.38	22.35	24	0
30	QPSK	1	48	22.28	22.14	22.13	24	0
30	QPSK	1	96	22.24	22.02	22.04	24	0
30	QPSK	56	0	21.95	21.95	21.90	23	1
30	QPSK	56	24	21.82	21.85	21.86	23	1
30	QPSK	56	48	21.48	21.44	21.44	23	1
30	QPSK	100	0	21.48	21.54	21.37	23	1
30	HQDM	1	0	22.44	21.92	21.87	23	1
30	HQDM	1	48	22.10	22.17	21.88	23	1
30	HQDM	1	96	21.86	21.89	21.83	23	1
30	HQDM	56	0	20.75	20.70	20.73	22	2
30	HQDM	56	24	20.83	20.85	20.86	22	2
30	HQDM	56	48	20.81	20.85	20.86	22	2
30	HQDM	100	0	20.87	20.87	20.73	22	2
30	HQDM	100	24	20.78	21.14	20.84	22	2
30	HQDM	100	48	20.74	20.84	20.82	22	2
30	HQDM	56	96	19.73	19.92	19.87	21	3
30	HQDM	56	24	19.59	19.75	19.83	21	3
30	HQDM	56	48	19.48	19.70	19.86	21	3
30	HQDM	100	0	19.79	19.82	19.86	21	3
30	HQDM	100	24	18.50	18.20	18.05	19	5
30	HQDM	100	48	18.11	18.21	18.16	19	5
30	HQDM	56	96	18.15	18.15	18.10	19	5
30	HQDM	56	24	18.00	18.18	18.15	19	5
30	HQDM	56	48	18.10	18.08	18.05	19	5
30	HQDM	56	96	18.14	18.14	18.06	19	5
30	HQDM	100	0	18.07	18.13	18.06	19	5
30	HQDM	100	24	17.77	17.95	17.97	19	5
30	HQDM	100	48	17.78	17.83	17.84	19	5
15	QPSK	1	0	22.34	22.11	22.22	24	0
15	QPSK	1	48	22.07	22.08	22.02	24	0
15	QPSK	1	96	22.14	22.14	22.04	24	0
15	QPSK	38	0	21.86	21.54	21.66	23	1
15	QPSK	38	20	21.88	21.86	21.55	23	1
15	QPSK	38	40	21.85	21.48	21.47	23	1
15	QPSK	76	0	21.52	21.49	21.56	23	1
15	HQDM	1	0	21.94	21.87	21.88	23	1
15	HQDM	1	24	21.80	21.82	21.81	23	1
15	HQDM	1	48	21.84	21.82	21.87	23	1
15	HQDM	38	0	20.83	20.75	20.78	22	2
15	HQDM	38	20	20.76	20.81	20.81	22	2
15	HQDM	38	40	20.73	20.71	20.84	22	2
15	HQDM	76	0	21.02	20.89	20.82	22	2
15	HQDM	76	20	20.97	20.97	20.89	22	2
15	HQDM	76	40	20.97	20.71	20.81	22	2
15	HQDM	38	20	19.75	19.51	19.87	21	3
15	HQDM	38	40	19.40	19.73	19.85	21	3
15	HQDM	38	80	19.70	19.63	19.72	21	3
15	HQDM	76	0	18.08	18.11	18.02	19	5
15	HQDM	76	20	17.98	18.08	18.02	19	5
15	HQDM	76	40	17.81	18.06	18.04	19	5
15	HQDM	38	80	17.87	18.13	18.10	19	5
15	HQDM	38	160	17.85	18.05	18.10	19	5
15	HQDM	76	0	17.87	18.05	17.93	19	5
15	HQDM	76	20	17.85	17.99	17.92	19	5
15	HQDM	76	40	18.00	18.09	17.99	19	5
15	HQDM	76	80	18.00	18.17	18.06	19	5
5	QPSK	1	0	22.34	22.24	22.24	24	0
5	QPSK	1	25	22.27	22.25	22.28	24	0
5	QPSK	1	50	22.34	22.24	22.24	24	0
5	QPSK	26	0	22.11	21.77	21.76	24	0
5	QPSK	26	12	22.03	21.82	21.81	24	0
5	QPSK	26	25	22.15	21.97	21.94	24	0
5	QPSK	50	0	21.93	21.79	21.84	24	0
5	HQDM	1	0	22.18	22.25	22.04	24	0
5	HQDM	1	48	22.18	22.26	22.04	24	0
5	HQDM	1	96	22.11	21.84	21.76	24	0
5	HQDM	26	0	20.92	20.81	20.86	23	1
5	HQDM	26	12	20.85	20.78	20.81	23	1
5	HQDM	26	25	20.84	20.89	20.88	23	1
5	HQDM	50	0	21.14	21.01	21.09	23	1
5	HQDM	50	12	21.08	21.09	21.08	23	1
5	HQDM	50	25	21.16	21.06	21.25	23	1
5	HQDM	100	0	21.18	21.06	21.27	23	1
5	HQDM	100	12	21.14	21.01	21.09	23	1
5	HQDM	100	25	21.14	21.06	21.27	23	1
5	HQDM	50	50	20.92	20.92	20.86	22	2
5	HQDM	50	12	20.24	20.21	20.22	22	2
5	HQDM	50	25	20.24	20.21	20.22	22	2
5	HQDM	100	0	20.19	20.02	20.07	21	3
5	HQDM	100	12	20.18	20.02	20.07	21	3
5	HQDM	100	25	20.20	20.07	20.02	21	3
5	HQDM	50	96	19.40	19.73	19.85	21	3
5	HQDM	50	48	19.70	19.63	19.72	21	3
5	HQDM	50	96	19.75	19.51	19.87	21	3
5	HQDM	100	0	18.08	18.09	17.99	19	5
5	HQDM	100	12	17.98	18.08	18.02	19	5
5	HQDM	100	25	17.81	18.06	18.04	19	5
5	HQDM	50	160	17.87	18.13	18.10	19	5
5	HQDM	50	80	17.85	18.05	18.10	19	5
5	HQDM	100	80	18.00	18.17	18.06	19	5
5	HQDM	100	160	18.00	18.17	18.06	19	5
3	QPSK	1	0	22.34	22.24	22.24	24	0
3	QPSK	1	25	22.27	22.25	22.28	24	0
3	QPSK	1	50	22.34	22.24	22.24	24	0
3	QPSK	8	0	22.11	21.77	21.76	24	0
3	QPSK	8	4	22.03	21.82	21.81	24	0
3	QPSK	8	8	22.15	21.97	21.94	24	0
3	QPSK	16	0	21.93	21.79	21.84	24	0
3	HQDM	1	0	22.18	22.25	22.04	24	0
3	HQDM	1	48	22.18	22.26	22.04	24	0
3	HQDM	1	96	22.11	21.84	21.76	24	0
3	HQDM	8	0	20.92	20.81	20.86	23	1
3	HQDM	8	4	20.85	20.78	20.81	23	1
3	HQDM	8	8	20.84	20.89	20.88	23	1
3	HQDM	16	0	21.14	21.01	21.09	23	1
3	HQDM	16	4	21.08	21.09	21.08	23	1
3	HQDM	16	8	21.16	21.06	21.25	23	1
3	HQDM	32	0	21.18	21.06	21.27	23	1
3	HQDM	32	4	21.14	21.01	21.09	23	1
3	HQDM	32	8	21.14	21.06	21.27	23	1
3	HQDM	16	16	20.92	20.92	20.86	22	2
3	HQDM	16	8	20.24	20.21	20.22	22	2
3	HQDM	16	16	20.24	20.21	20.22	22	2
3	HQDM	32	0	20.19	20.02	20.07	21	3
3	HQDM	32	4	20.18	20.02	20.07	21	3
3	HQDM	32	8	20.20	20.07	20.02	21	3
3	HQDM	16	160	19.40	19.73	19.85	21	3
3	HQDM	16	80	19.70	19.63	19.72	21	3
3	HQDM	16	160	19.75	19.51	19.87	21	3
3	HQDM	32	80	18.08	18.09	17.99	19	5
3	HQDM	32	16	17.98	18.08	18.02	19	5
3	HQDM	32	32	17.81	18.06	18.04	19	5
3	HQDM	16	160	17.87	18.13	18.10	19	5
3	HQDM	16	80	17.85	18.05	18.10	19	5
3	HQDM	32	160	18.00	18.17	18.06	19	5
3	HQDM	32	160	18.00	18.17	18.06	19	5
1.4	QPSK	1	0	22.34	22.27	22.16	24	0
1.4	QPSK	1	3	22.15	22.10	22.05	24	0
1.4	QPSK	1	6	22.15	22.12	22.17	24	0
1.4	QPSK	3	0	22.23	22.32	22.00	24	0
1.4	QPSK	3	1	22.04	22.12	22.09	24	0
1.4	QPSK	3	2	22.05	22.15	22.15	24	0
1.4	QPSK	6	0	21.88	21.85	21.84	23	1
1.4	QPSK	6	1	21.82	21.82	21.86	23	1
1.4	QPSK	6	2	21.78	21.80	21.82	23	1
1.4	QPSK	12	0	21.52	21.50	21.52	23	1
1.4	QPSK	12	1	21.41	21.60	21.68	23	1
1.4	QPSK	12	2	21.78	21.50	21.52	23	1
1.4	QPSK	6	24	20.88	20.87	20.89	22	2
1.4	QPSK	6	12	20.77	20.76	20.84	22	2
1.4	QPSK	6	24	20.71	20.60	20.60	22	2
1.4	QPSK	12	0	20.88	20.79	20.46	22	2
1.4	QPSK	12	6	20.84	20.52	20.52	22	2
1.4	QPSK	12	12	20.83	20.55	20.47	22	2
1.4	QPSK	24	0	20.89	20.73	20.45	21	3
1.4	QPSK	24	6	20.89	20.87	20.89	21	3
1.4	QPSK	24	12	20.89	20.89	20.89	21	3
1.4	QPSK	12	24	19.91	19.82	19.81	21	3
1.4	QPSK	12	48	19.93	19.75	19.80	21	3
1.4	QPSK	24	0	18.01	18.09	18.14	19	5
1.4	QPSK	24	6	18.01	18.17	18.10	19	5
1.4	QPSK	24	12	18.01	18.17	18.10	19	5
1.4	QPSK	12	48	17.89	18.03	18.04	19	5
1.4	QPSK	12	96	17.85	18.07	18.06	19	5
1.4	QPSK	24	0	17.95	18.09	18.01	19	5
1.4	QPSK	24	6	17.87	18.03	18.02	19	5

Band 4_Ant 0

HW (MHz)	Modulation	RB	RB Pch	Power Low Ch / Freqs	Power High Ch / Freqs	Power Hsp Ch / Freqs	Turn-up (min)	MFR (dB)
30	QPSK	1	0	22.45	22.49	22.43	24	0
30	QPSK	1	48	22.38	22.43	22.33	24	0
30	QPSK	1	96	22.34	22.35	22.34	24	0
30	QPSK	56	0	21.98	21.98	21.97	23	1
30	QPSK	56	24	21.96	21.82</			



Band 12_Ant 1									
FW (MHz)	Modulation	RB Pos	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (min)	MFR (dB)	
Channel									
Frequency (MHz)				2390	2395	2398			
10	QPSK	1	0	22.41	22.42	22.38	24	0	
10	QPSK	1	25	22.35	22.29	22.28			
10	QPSK	1	40	22.25	22.24	22.24			
10	QPSK	25	0	22.20	22.13	21.90			
10	QPSK	25	12	22.08	22.09	21.94	23	1	
10	QPSK	25	25	22.05	22.01	21.90			
10	QPSK	50	0	22.07	22.08	22.00			
10	HQDM	1	0	22.07	22.23	22.21	23	1	
10	HQDM	1	49	22.18	22.01	22.31			
10	HQDM	25	0	22.05	22.00	22.07			
10	HQDM	25	12	21.77	21.03	21.02			
10	HQDM	25	25	21.68	21.10	21.05	22	2	
10	HQDM	50	0	21.92	22.05	21.08			
10	HQDM	1	25	21.39	21.20	21.25	22	2	
10	HQDM	1	49	20.84	21.20	21.17			
10	HQDM	25	0	20.95	20.97	20.98			
10	HQDM	25	12	20.18	20.10	20.10			
10	HQDM	25	25	20.03	20.04	20.17	21	3	
10	HQDM	50	0	20.03	20.00	20.07			
10	25GQAM	1	0	18.00	18.12	17.97			
10	25GQAM	1	25	18.06	18.10	17.95	19	5	
10	25GQAM	1	49	18.08	18.08	17.97			
10	25GQAM	25	0	17.91	18.00	17.95			
10	25GQAM	25	12	17.96	18.05	17.90	19	5	
10	25GQAM	25	25	18.15	18.15	18.08			
10	25GQAM	50	0	18.02	18.11	18.01			
Channel				2395	2399	2399			
Frequency (MHz)				2395	2399	2399			
5	QPSK	1	0	22.24	22.18	22.40	24	0	
5	QPSK	1	12	22.39	22.32	22.41			
5	QPSK	1	24	22.33	22.28	22.34			
5	QPSK	12	0	21.91	21.95	21.96			
5	QPSK	12	7	22.07	21.94	22.04	23	1	
5	QPSK	12	14	21.99	21.99	22.02			
5	QPSK	25	0	22.03	21.92	21.97			
5	HQDM	1	0	22.15	22.10	22.19	23	1	
5	HQDM	1	24	22.17	22.31	22.40			
5	HQDM	12	0	21.90	21.96	21.91			
5	HQDM	12	6	21.96	21.97	21.97			
5	HQDM	12	13	21.13	20.86	21.07	22	2	
5	HQDM	25	0	21.08	21.13	20.98			
5	HQDM	1	24	21.28	21.13	21.27			
5	HQDM	1	49	21.04	21.07	21.04			
5	HQDM	1	24	20.97	21.18	21.22	22	2	
5	HQDM	12	0	21.09	21.10	21.09			
5	HQDM	12	6	21.00	20.94	20.95			
5	HQDM	12	13	20.97	20.93	20.94	21	3	
5	HQDM	25	0	20.13	20.99	20.25			
5	HQDM	25	0	19.99	19.99	19.79			
5	25GQAM	1	0	17.88	18.07	17.92			
5	25GQAM	1	12	18.07	18.05	17.93	19	5	
5	25GQAM	1	24	17.93	17.95	17.83			
5	25GQAM	12	0	17.80	17.85	17.91			
5	25GQAM	12	6	17.86	18.04	18.05			
5	25GQAM	12	13	17.28	18.05	18.07	19	5	
5	25GQAM	25	0	18.00	18.00	17.93			
Channel				2399	2399	2399			
Frequency (MHz)				2399	2399	2399			
3	QPSK	1	0	22.19	22.22	22.22	24	0	
3	QPSK	1	8	22.33	22.41	22.29			
3	QPSK	1	16	22.34	22.23	22.33			
3	QPSK	8	0	21.97	21.91	21.90			
3	QPSK	8	4	22.03	21.99	22.09	23	1	
3	QPSK	8	8	22.06	22.01	21.94			
3	QPSK	16	0	22.00	21.95	21.97			
3	HQDM	1	0	22.06	21.92	22.10	23	1	
3	HQDM	1	14	22.09	22.03	22.10			
3	HQDM	8	0	21.19	22.09	21.93			
3	HQDM	8	4	21.02	21.11	21.10			
3	HQDM	8	7	21.08	21.01	21.02	22	2	
3	HQDM	15	0	21.03	20.96	20.97			
3	HQDM	1	0	21.40	21.14	21.15			
3	HQDM	1	8	21.26	21.13	21.01	22	2	
3	HQDM	1	14	20.94	21.04	21.26			
3	HQDM	8	0	19.99	19.99	19.79			
3	HQDM	8	7	19.97	19.94	19.94	21	3	
3	25GQAM	1	0	17.80	18.05	17.85			
3	25GQAM	1	8	17.99	17.99	17.88	19	5	
3	25GQAM	1	14	17.85	17.92	17.81			
3	25GQAM	8	0	17.80	17.85	17.88			
3	25GQAM	8	4	17.91	17.94	17.78	19	5	
3	25GQAM	8	7	17.86	18.05	18.04			
3	25GQAM	15	0	17.94	18.08	17.92			
Channel				2399	2399	2399			
Frequency (MHz)				2399	2399	2399			
1.4	QPSK	1	0	22.35	22.37	22.20			
1.4	QPSK	1	3	22.30	22.28	22.22	24	0	
1.4	QPSK	1	6	22.12	22.22	22.10			
1.4	QPSK	3	0	22.23	22.24	22.23			
1.4	QPSK	3	1	22.19	22.18	22.16			
1.4	QPSK	3	3	22.23	22.22	22.18			
1.4	QPSK	6	0	22.01	21.99	21.86	23	1	
1.4	HQDM	1	0	21.92	22.14	22.08			
1.4	HQDM	1	3	22.11	22.29	22.11			
1.4	HQDM	1	6	22.10	21.84	22.20	23	1	
1.4	HQDM	3	0	21.90	22.02	22.03			
1.4	HQDM	3	2	22.06	22.24	22.03			
1.4	HQDM	3	3	21.99	21.80	22.10	22	2	
1.4	HQDM	6	0	20.97	20.81	21.00			
1.4	HQDM	6	3	20.98	21.28	21.37			
1.4	HQDM	1	0	20.73	21.18	21.08	22	2	
1.4	HQDM	1	3	20.91	20.97	20.95			
1.4	HQDM	3	1	21.29	20.99	21.14			
1.4	HQDM	3	0	20.88	21.06	20.95	21	3	
1.4	25GQAM	1	0	18.00	18.05	18.78			
1.4	25GQAM	1	8	17.89	18.10	17.83			
1.4	25GQAM	1	15	17.89	17.99	17.88	19	5	
1.4	25GQAM	3	0	17.95	17.85	17.89			
1.4	25GQAM	3	3	17.97	18.11	17.99			
1.4	25GQAM	6	0	17.86	17.98	17.91	19	5	

Band 13_Ant 0									
FW (MHz)	Modulation	RB Pos	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up (min)	MFR (dB)	
Channel									
Frequency (MHz)				2350	2350	2350			
10	QPSK	1	0	23.35	23.35	23.35	24	0	
10	QPSK	1	25	23.24	23.24	23.24			
10	QPSK	1	40	23.24	23.24	23.24			
10	QPSK	25	0	23.07	23.07	23.07			
10	QPSK	25	12	22.99	22.99	22.99	24	0	
10	QPSK	25	25	22.91	22.91	22.91			
10	QPSK	50	0	22.95	22.95	22.95			
10	HQDM	1	0	23.28	23.28	23.11	24	0	
10	HQDM	1	49	23.30	23.30	23.30			
10	HQDM	25	0	22.99	22.99	22.99			
10	HQDM	25	12	22.94	22.94	22.94	23	1	
10	HQDM	25	25	22.86	22.86	22.86			
10	HQDM	50	0	22.86	22.86	22.86			
10	HQDM	1	25	22.93	22.93	22.93	23	1	
10	HQDM	1	49	22.87	22.87	22.87			
10	HQDM	25	0	21.97	21.97	21.97	22	2	
10	HQDM	25	12	21.86	21.86	21.86			
10	HQDM	25	25	21.82	21.82	21.82			
10	HQDM	50	0	21.82	21.82	21.82			
10	25GQAM	1	0	18.90	18.90	18.85	19	5	
10	25GQAM	1	25	18.85	18.85	18.85			
10	25GQAM	1	49	18.85	18.85	18.85			
10	25GQAM	25	0	18.88	18.88	18.87			
10	25GQAM	25	12	18.87	18.87	18.87	19	5	
10	25GQAM	25	25	18.85	18.85	18.85			
10	25GQAM	50	0	18.90	18.90	18.85			



Band 17_Ant 1											
WB (MHz)	Modulation	RB (KHz)	RB Offset	Power Lb Ch / Freqs	Power Mod Ch / Freqs	Power Hb Ch / Freqs	Turn-up (min)	MFR (dB)			
Channel											
				2376	2390	2380					
10	QPSK	1	0	23.36	23.39	23.30					
10	QPSK	1	26	23.27	23.22	23.28	24	0			
10	QPSK	1	48	23.24	23.23	23.25					
10	QPSK	25	0	23.11	23.14	23.12					
10	QPSK	25	12	22.90	23.08	22.91					
10	QPSK	25	12	22.82	22.93	22.93	23	1			
10	QPSK	50	0	22.81	22.82	22.80					
10	HQDM	1	0	22.86	22.23	22.36	23	1			
10	HQDM	1	28	22.94	22.92	22.78					
10	HQDM	1	48	22.38	22.32	22.34					
10	HQDM	25	0	22.80	21.91	21.98					
10	HQDM	25	12	21.92	21.11	21.04					
10	HQDM	25	26	21.14	21.13	21.11					
10	HQDM	50	0	21.80	21.00	21.08	22	2			
10	HQDM	50	0	21.32	21.33	21.37					
10	HQDM	1	26	21.28	21.09	21.05					
10	HQDM	1	48	21.10	21.23	21.03					
10	HQDM	25	0	20.94	19.99	19.98					
10	HQDM	25	12	19.29	20.19	19.24					
10	HQDM	25	26	20.19	20.03	19.94	21	3			
10	HQDM	50	0	18.77	18.92	18.94					
10	ZSSVM	1	0	18.17	18.16	18.06					
10	ZSSVM	1	26	18.10	18.13	18.03	19	5			
10	ZSSVM	1	48	18.11	18.20	18.12					
10	ZSSVM	25	0	18.00	18.14	18.04					
10	ZSSVM	25	12	18.15	18.18	18.11	19	5			
10	ZSSVM	25	26	18.04	18.17	18.03					
10	ZSSVM	50	0	18.08	18.20	18.07					
Channel											
				2376	2390	2380					
5	QPSK	1	0	22.30	22.16	22.11					
5	QPSK	1	12	22.30	22.31	22.34	24	0			
5	QPSK	1	24	22.18	22.28	22.20					
5	QPSK	12	0	22.00	21.99	21.99					
5	QPSK	12	7	22.06	22.11	21.96	23	1			
5	QPSK	12	7	22.11	22.04	22.04					
5	QPSK	25	0	22.04	21.98	21.98					
5	HQDM	1	0	22.38	22.19	22.01	23	1			
5	HQDM	1	12	22.33	22.18	22.07					
5	HQDM	1	24	22.33	22.04	22.33					
5	HQDM	12	0	21.92	21.92	21.98	22	2			
5	HQDM	12	7	21.14	20.97	20.99					
5	HQDM	12	13	21.13	21.09	21.02					
5	HQDM	25	0	21.38	21.04	21.00					
5	HQDM	25	0	21.38	21.04	21.38					
5	HQDM	1	24	21.33	21.29	21.54	22	2			
5	HQDM	1	24	21.84	21.26	21.30					
5	HQDM	12	7	20.93	20.97	20.99					
5	HQDM	12	13	20.98	20.95	20.10	21	3			
5	HQDM	25	0	20.00	20.98	20.92					
5	ZSSVM	1	0	18.02	18.13	18.04					
5	ZSSVM	1	12	18.09	18.06	18.03	19	5			
5	ZSSVM	1	24	18.07	18.18	18.10					
5	ZSSVM	25	0	18.08	18.13	17.96					
5	ZSSVM	25	12	18.16	18.08	18.06	19	5			
5	ZSSVM	25	26	18.05	18.08	17.90					
5	ZSSVM	50	0	18.08	18.08	17.98					

Band 25_Ant 2											
WB (MHz)	Modulation	RB (KHz)	RB Offset	Power Lb Ch / Freqs	Power Mod Ch / Freqs	Power Hb Ch / Freqs	Turn-up (min)	MFR (dB)			
Channel											
				2616	2630	2600					
30	QPSK	1	0	22.80	22.59	22.75					
30	QPSK	1	48	22.73	22.85	22.70	24	0			
30	QPSK	1	96	22.38	22.45	22.40					
30	QPSK	50	0	22.31	22.44	22.35					
30	QPSK	50	24	22.38	22.40	22.35	23	1			
30	QPSK	50	48	22.31	22.45	22.35					
30	HQDM	1	0	22.82	22.82	22.54	23	1			
30	HQDM	1	28	22.84	22.92	22.78					
30	HQDM	1	48	22.37	22.42	22.24					
30	HQDM	50	0	22.09	21.93	22.13					
30	HQDM	50	24	21.98	21.95	22.21	23	1			
30	HQDM	50	48	22.08	22.01	22.21					
30	HQDM	100	0	22.26	22.24	22.24					
30	HQDM	1	48	22.12	22.08	22.20	23	1			
30	HQDM	1	96	21.98	22.04	22.30					
30	HQDM	50	0	21.13	20.93	21.10					
30	HQDM	50	24	21.18	21.01	21.08					
30	HQDM	50	48	20.99	20.96	21.09	22	2			
30	HQDM	100	0	21.08	20.98	21.15					
30	ZSSVM	1	0	18.00	18.70	18.01					
30	ZSSVM	1	48	18.08	18.80	18.71	19	5			
30	ZSSVM	1	96	18.04	18.78	18.68					
30	ZSSVM	50	0	18.00	18.02	18.68					
30	ZSSVM	50	24	18.02	18.75	18.63	19	5			
30	ZSSVM	50	48	18.07	18.71	18.71					
30	ZSSVM	100	0	18.09	18.10	18.55					
Channel											
				2616	2630	2600					
15	QPSK	1	0	22.70	22.58	22.71					
15	QPSK	1	37	22.68	22.57	22.71	24	0			
15	QPSK	1	74	22.38	22.47	22.71					
15	QPSK	38	0	22.43	22.22	22.36					
15	QPSK	38	20	22.38	22.27	22.45	23	1			
15	QPSK	38	40	22.47	22.27	22.43					
15	QPSK	75	0	22.38	22.29	22.45					
15	HQDM	1	0	22.96	22.51	22.51	23	1			
15	HQDM	1	12	22.97	22.52	22.58					
15	HQDM	1	24	22.96	22.48	22.82					
15	HQDM	38	0	22.12	21.97	22.12	22	2			
15	HQDM	38	19	22.08	21.98	22.18					
15	HQDM	38	38	22.06	21.96	22.20					
15	HQDM	75	0	22.10	21.98	22.17	22	2			
15	HQDM	75	12	22.22	21.44	22.18					
15	HQDM	1	37	22.11	22.13	22.28	23	1			
15	HQDM	1	74	22.12	21.94	22.11					
15	HQDM	38	0	21.10	20.93	21.10					
15	HQDM	38	20	21.07	20.96	21.19	22	2			
15	HQDM	38	38	21.08	20.93	21.20					
15	ZSSVM	1	0	18.06	18.70	18.01					
15	ZSSVM	1	37	18.02	18.77	18.71	19	5			
15	ZSSVM	1	74	18.05	18.82						



Band 66_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.
Channel						
Frequency (MHz)						
20	QPSK	1	0	22.35	22.41	22.38
20	QPSK	1	48	22.31	22.34	22.36
20	QPSK	1	96	22.33	22.33	22.33
20	QPSK	56	0	21.81	22.00	21.90
20	QPSK	50	24	21.80	21.87	21.89
20	QPSK	50	50	21.85	21.91	21.88
20	QPSK	100	0	21.77	21.82	21.86
20	HQAM	1	0	22.08	22.08	22.14
20	HQAM	1	48	22.12	22.12	22.10
20	HQAM	1	96	22.10	21.88	21.97
20	HQAM	50	0	20.98	20.83	20.84
20	HQAM	50	24	20.98	20.82	20.82
20	HQAM	50	50	20.91	20.88	20.81
20	HQAM	100	0	20.96	20.78	20.85
20	HQAM	1	0	21.98	21.18	21.19
20	HQAM	1	48	20.97	20.94	20.96
20	HQAM	1	96	20.98	20.87	21.05
20	HQAM	50	0	19.97	19.85	19.83
20	HQAM	50	24	19.94	19.82	19.87
20	HQAM	50	50	19.84	19.86	19.80
20	HQAM	100	0	19.82	19.78	19.85
20	SSBQAM	1	0	18.05	18.05	18.20
20	SSBQAM	1	48	18.07	18.14	18.15
20	SSBQAM	1	96	18.07	18.14	18.25
20	SSBQAM	50	0	18.08	18.11	18.15
20	SSBQAM	50	24	18.04	18.17	18.22
20	SSBQAM	50	50	18.04	18.13	18.26
20	SSBQAM	100	0	18.18	18.20	18.21
Channel						
Frequency (MHz)						
15	QPSK	1	0	22.33	22.14	22.19
15	QPSK	1	37	22.11	22.18	22.03
15	QPSK	1	74	22.12	22.08	22.12
15	QPSK	36	0	21.70	21.85	21.86
15	QPSK	36	20	21.60	21.72	21.81
15	QPSK	36	40	21.72	21.84	21.98
15	QPSK	76	0	21.74	21.87	21.90
15	HQAM	1	0	21.82	21.83	21.82
15	HQAM	1	37	22.02	21.91	21.87
15	HQAM	1	74	21.87	21.73	21.82
15	HQAM	36	0	20.70	20.68	20.59
15	HQAM	36	20	20.68	20.67	20.68
15	HQAM	36	36	20.65	20.63	20.59
15	HQAM	75	0	20.65	20.64	20.49
15	HQAM	1	0	20.82	21.00	21.91
15	HQAM	1	37	20.80	20.71	20.74
15	HQAM	1	74	20.80	20.68	20.82
15	HQAM	36	0	19.87	19.85	19.80
15	HQAM	36	20	19.78	19.69	19.59
15	HQAM	36	36	19.74	19.54	19.72
15	HQAM	75	0	19.84	19.85	19.81
15	SSBQAM	1	0	17.82	17.88	17.77
15	SSBQAM	1	37	17.84	17.88	17.92
15	SSBQAM	1	74	17.84	17.88	18.01
15	SSBQAM	36	0	17.84	17.81	17.91
15	SSBQAM	36	20	17.86	17.88	17.91
15	SSBQAM	36	36	17.84	17.88	17.95
15	SSBQAM	75	0	17.87	18.03	18.01
Channel						
Frequency (MHz)						
10	QPSK	1	0	22.33	22.32	22.17
10	QPSK	1	25	22.04	22.10	22.08
10	QPSK	1	49	22.08	22.08	22.08
10	QPSK	26	0	21.74	21.69	21.55
10	QPSK	25	12	21.72	21.61	21.64
10	QPSK	25	24	21.84	21.62	21.87
10	QPSK	50	0	21.63	21.67	21.48
10	HQAM	1	0	21.84	21.60	21.91
10	HQAM	1	26	21.84	21.64	21.81
10	HQAM	1	49	21.90	21.80	21.88
10	HQAM	25	0	20.85	20.80	20.53
10	HQAM	25	12	20.74	20.69	20.57
10	HQAM	25	25	20.67	20.64	20.68
10	HQAM	50	0	20.67	20.69	20.59
10	HQAM	1	0	20.74	21.02	20.83
10	HQAM	1	26	20.72	20.77	20.77
10	HQAM	1	49	20.68	20.80	20.71
10	HQAM	25	0	19.87	19.87	19.87
10	HQAM	25	12	19.74	19.62	19.56
10	HQAM	25	25	19.82	19.82	18.81
10	HQAM	50	0	19.89	19.89	19.57
10	SSBQAM	1	0	17.88	17.89	17.77
10	SSBQAM	1	25	17.88	17.87	17.83
10	SSBQAM	1	49	17.87	17.88	17.93
10	SSBQAM	25	0	17.82	17.88	17.91
10	SSBQAM	25	12	17.88	17.84	17.91
10	SSBQAM	25	25	17.84	17.88	17.95
10	SSBQAM	50	0	17.91	17.99	18.00
Channel						
Frequency (MHz)						
5	QPSK	1	0	22.19	22.14	22.15
5	QPSK	1	12	22.14	22.18	22.03
5	QPSK	1	24	22.08	22.04	22.12
5	QPSK	12	0	21.70	21.85	21.85
5	QPSK	12	7	21.70	21.65	21.80
5	QPSK	12	14	21.74	21.83	21.83
5	QPSK	25	0	21.70	21.84	21.53
5	HQAM	1	0	21.85	21.89	21.87
5	HQAM	1	12	21.88	21.81	21.83
5	HQAM	1	24	21.83	21.79	21.83
5	HQAM	12	0	20.65	20.61	20.62
5	HQAM	12	7	20.77	20.72	20.87
5	HQAM	12	14	20.69	20.82	20.85
5	HQAM	25	0	20.78	20.85	20.57
5	HQAM	1	0	20.77	20.59	20.90
5	HQAM	1	12	20.78	20.78	20.69
5	HQAM	12	24	20.72	20.64	20.66
5	HQAM	1	0	19.76	19.69	19.66
5	HQAM	12	7	19.69	19.68	19.53
5	HQAM	12	14	19.88	19.81	18.82
5	HQAM	25	0	19.82	19.89	19.54
5	SSBQAM	1	0	17.81	17.87	17.87
5	SSBQAM	1	12	17.78	17.87	17.87
5	SSBQAM	1	24	17.84	17.84	17.95
5	SSBQAM	12	0	17.78	17.89	17.92
5	SSBQAM	12	7	17.89	18.03	17.91
5	SSBQAM	12	14	17.82	17.88	18.02
5	SSBQAM	25	0	17.89	17.99	17.94
5	SSBQAM	25	0	17.89	18.01	18.04
Channel						
Frequency (MHz)						
3	QPSK	1	0	22.34	22.12	22.16
3	QPSK	1	8	22.17	22.08	22.10
3	QPSK	1	14	22.11	22.18	22.03
3	QPSK	6	0	21.74	21.64	21.58
3	QPSK	6	4	21.77	21.60	21.64
3	QPSK	6	7	21.65	21.67	21.81
3	QPSK	15	0	21.69	21.67	21.58
3	HQAM	1	0	21.82	21.88	21.82
3	HQAM	1	8	22.02	21.84	21.88
3	HQAM	1	14	21.82	21.75	21.58
3	HQAM	6	0	20.72	20.64	20.57
3	HQAM	6	4	20.62	20.67	20.69
3	HQAM	6	7	20.68	20.63	20.60
3	HQAM	15	0	20.66	20.59	20.51
3	HQAM	1	0	20.77	21.02	21.01
3	HQAM	1	8	20.73	20.67	20.72
3	HQAM	1	14	20.82	20.81	20.59
3	HQAM	6	0	19.76	19.66	19.67
3	HQAM	6	4	19.70	19.65	19.66
3	HQAM	6	7	19.69	19.61	19.70
3	HQAM	15	0	19.73	19.81	19.58
3	SSBQAM	1	0	17.78	17.88	17.80
3	SSBQAM	1	8	17.84	17.88	17.93
3	SSBQAM	1	14	17.82	17.86	17.93
3	SSBQAM	6	0	17.89	17.89	17.82
3	SSBQAM	6	4	17.88	17.88	17.98
3	SSBQAM	6	7	18.01	17.97	17.91
3	SSBQAM	15	0	17.85	17.89	17.88
Channel						
Frequency (MHz)						
1.4	QPSK	1	0	22.26	22.09	22.16
1.4	QPSK	1	3	22.18	22.10	22.06
1.4	QPSK	1	6	22.12	22.14	22.03
1.4	QPSK	3	0	22.17	22.15	22.05
1.4	QPSK	3	1	22.06	22.16	22.09
1.4	QPSK	3	3	22.12	22.18	22.10
1.4	QPSK	6	0	21.87	21.85	21.81
1.4	HQAM	1	0	21.71	21.87	21.57
1.4	HQAM	1	3	21.61	21.55	21.52
1.4	HQAM	1	5	21.70	21.81	21.83
1.4	HQAM	3	0	21.76	21.51	21.56
1.4	HQAM	3	1	21.86	21.83	21.81
1.4	HQAM	3	3	21.73	21.58	21.84
1.4	HQAM	6	0	20.75	20.67	20.58
1.4	HQAM	1	0	20.72	20.69	20.64
1.4	HQAM	1	3	20.75	20.65	20.63
1.4	HQAM	1	5	20.75	20.59	20.65
1.4	HQAM	3	0	20.78	20.83	20.56
1.4	HQAM	3	1	20.69	20.64	20.56
1.4	HQAM	3	3	20.78	19.83	19.99
1.4	SSBQAM	1	0	17.78	17.87	17.85
1.4	SSBQAM	1	3	17.88	17.89	17.88
1.4	SSBQAM	1	5	18.08	18.04	17.91
1.4	SSBQAM	3	0	17.81	17.95	17.89
1.4	SSBQAM	3	1	17.88	17.98	17.89
1.4	SSBQAM	3	3	17.88	17.89	17.89
1.4	SSBQAM	6	0	17.85	17.98	18.01



Band 41_Ant 1															
BW (MHz)	Modulation	RB (kHz)	RB Offset	Freq. Low Ch / Freq. (MHz)	Freq. Mid Ch / Freq. (MHz)	Freq. High Ch / Freq. (MHz)	Freq. Low Ch / Freq. (MHz)	Freq. Mid Ch / Freq. (MHz)	Freq. High Ch / Freq. (MHz)	Time-up (min)	MFR (dB)	Time-up (min)	MFR (dB)	Time-up (min)	MFR (dB)
Channel											Time-up (min)	MFR (dB)			
Frequency (MHz)															
20	QPSK	1	0	23.25	23.24	23.23	23.23	23.23	23.23	24	0				
20	QPSK	1	49	23.20	23.21	23.22	23.22	23.18	23.08	24	0				
20	QPSK	1	99	23.23	23.17	23.20	23.20	23.06	23.02	24	0				
20	QPSK	50	0	22.48	22.47	22.51	22.41	22.43	22.43	23	1				
20	QPSK	50	24	22.41	22.45	22.51	22.38	22.27	22.27	23	1				
20	QPSK	50	24	22.46	22.48	22.45	22.45	22.45	22.45	23	1				
20	QPSK	100	0	22.54	22.44	22.56	22.50	22.40	22.40	23	1				
20	16QAM	1	0	22.40	22.40	22.51	22.41	22.39	22.39	23	1				
20	16QAM	1	49	22.46	22.46	22.50	22.45	22.45	22.45	23	1				
20	16QAM	1	99	22.43	22.48	22.58	22.42	22.32	22.32	23	1				
20	16QAM	50	0	21.84	21.77	21.58	21.63	21.42	21.42	22	2				
20	16QAM	50	24	21.72	21.71	21.61	21.68	21.45	21.45	22	2				
20	16QAM	100	0	21.68	21.72	21.81	21.68	21.38	21.38	22	2				
20	16QAM	1	49	21.76	21.76	21.72	21.71	21.56	21.56	22	2				
20	16QAM	1	99	21.57	21.58	21.69	21.75	21.49	21.49	22	2				
20	64QAM	1	0	20.87	20.86	20.92	20.94	20.90	20.90	21	3				
20	64QAM	50	24	20.63	20.68	20.54	20.54	20.52	20.52	21	3				
20	64QAM	50	50	20.59	20.64	20.66	20.61	20.46	20.46	21	3				
20	64QAM	100	0	20.93	20.88	20.93	20.89	20.48	20.48	21	3				
20	256QAM	1	0	18.26	18.32	18.40	18.34	18.25	18.25	19	5				
20	256QAM	1	49	18.48	18.33	18.47	18.41	18.32	18.32	19	5				
20	256QAM	1	99	18.35	18.35	18.31	18.31	18.25	18.25	19	5				
20	256QAM	50	0	18.27	18.31	18.33	18.27	18.20	18.20	19	5				
20	256QAM	50	24	18.40	18.39	18.39	18.39	18.32	18.32	19	5				
20	256QAM	50	50	18.39	18.42	18.31	18.30	18.25	18.25	19	5				
20	256QAM	100	0	18.33	18.37	18.47	18.42	18.32	18.32	19	5				
Channel											Time-up (min)	MFR (dB)			
Frequency (MHz)															
15	QPSK	1	0	22.49	22.51	22.59	22.51	22.34	22.34	24	0				
15	QPSK	1	49	22.38	22.40	22.44	22.43	22.30	22.30	24	0				
15	QPSK	1	99	22.30	22.37	22.48	22.41	22.27	22.27	24	0				
15	QPSK	50	0	22.38	22.30	22.37	22.50	22.41	22.41	23	1				
15	QPSK	36	20	22.40	22.34	22.50	22.27	22.20	22.20	23	1				
15	QPSK	36	40	22.52	22.42	22.53	22.49	22.28	22.28	23	1				
15	16QAM	1	0	22.27	22.37	22.46	22.37	22.36	22.36	23	1				
15	16QAM	1	49	22.30	22.38	22.48	22.37	22.49	22.49	23	1				
15	16QAM	1	99	22.30	22.38	22.50	22.38	22.18	22.18	23	1				
15	16QAM	50	0	21.63	21.63	21.67	21.52	21.27	21.27	22	2				
15	16QAM	50	24	21.59	21.61	21.68	21.61	21.49	21.49	22	2				
15	16QAM	36	39	21.57	21.73	21.88	21.85	21.61	21.61	22	2				
15	16QAM	75	0	21.57	21.56	21.55	21.59	21.38	21.38	22	2				
15	64QAM	1	0	21.09	21.07	21.09	21.09	20.98	20.98	21	3				
15	64QAM	1	49	21.54	21.78	21.86	21.72	21.47	21.47	22	2				
15	64QAM	1	99	21.87	21.75	21.69	21.80	21.49	21.49	22	2				
15	64QAM	36	39	20.95	20.95	20.93	20.93	20.86	20.86	21	3				
15	64QAM	36	50	20.50	20.49	20.58	20.49	20.35	20.35	21	3				
15	64QAM	75	0	20.50	20.50	20.49	20.49	20.35	20.35	21	3				
15	256QAM	1	0	18.14	18.18	18.31	18.19	18.22	18.22	19	5				
15	256QAM	1	49	18.29	18.19	18.42	18.35	18.18	18.18	19	5				
15	256QAM	1	99	18.14	18.15	18.33	18.21	18.23	18.23	19	5				
15	256QAM	50	0	18.15	18.28	18.25	18.20	18.20	18.20	19	5				
15	256QAM	50	24	18.38	18.38	18.41	18.35	18.26	18.26	19	5				
15	256QAM	50	39	18.38	18.15	18.35	18.30	18.20	18.20	19	5				
15	256QAM	75	0	18.32	18.28	18.37	18.31	18.19	18.19	19	5				
Channel											Time-up (min)	MFR (dB)			
Frequency (MHz)															
10	QPSK	1	0	22.42	22.38	22.84	22.45	22.37	22.37	24	0				
10	QPSK	1	25	22.49	22.37	22.48	22.40	22.37	22.37	24	0				
10	QPSK	1	49	22.59	21.91	21.48	21.67	21.59	21.59	24	0				
10	QPSK	25	0	22.38	22.40	22.30	22.40	22.40	22.40	23	1				
10	QPSK	25	12	22.40	22.46	22.50	22.26	22.23	22.23	23	1				
10	QPSK	25	12	22.42	22.36	22.42	22.42	22.40	22.40	23	1				
10	QPSK	50	0	22.48	22.43	22.41	22.49	22.33	22.33	23	1				
10	16QAM	1	0	22.35	22.34	22.38	22.30	22.24	22.24	23	1				
10	16QAM	1	49	22.40	22.44	22.46	22.35	22.28	22.28	23	1				
10	16QAM	25	0	21.54	21.56	21.53	21.62	21.28	21.28	22	2				
10	16QAM	25	12	21.69	21.76	21.48	21.68	21.29	21.29	22	2				
10	16QAM	25	25	21.54	21.63	21.63	21.54	21.32	21.32	22	2				
10	16QAM	50	0	21.93	21.67	21.99	21.80	21.34	21.34	22	2				
10	64QAM	1	0	21.68	21.64	21.61	21.69	21.54	21.54	22	2				
10	64QAM	1	49	21.76	21.77	21.77	21.84	21.46	21.46	22	2				
10	64QAM	25	0	20.99	20.92	20.94	20.98	20.84	20.84	21	3				
10	64QAM	25	12	20.62	20.60	20.46	20.56	20.44	20.44	21	3				
10	64QAM	50	0	20.57	20.54	20.57	20.60	20.43	20.43	21	3				
10	64QAM	50	24	20.58	20.56	20.55	20.51	20.45	20.45	21	3				
10	256QAM	1	0	18.20	18.26	18.29	18.19	18.19	18.19	19	5				
10	256QAM	1	49	18.28	18.32	18.41	18.36	18.29	18.29	19	5				
10	256QAM	1	99	18.32	18.37	18.31	18.37	18.29	18.29	19	5				
10	256QAM	25	0	18.17	18.18	18.19	18.25	18.28	18.28	19	5				
10	256QAM	25	12	18.34	18.31	18.34	18.35	18.24	18.24	19	5				
10	256QAM	25	25	18.32	18.15	18.30	18.20	18.24	18.24	19	5				
10	256QAM	50	0	18.20	18.32	18.41	18.30	18.25	18.25	19	5				
Channel											Time-up (min)	MFR (dB)			
Frequency (MHz)															
5	QPSK	1	0	22.47	22.46	22.56	22.51	22.32	22.32	24	0				
5	QPSK	1	12	22.36	22.38	22.44	22.41	22.35	22.35	24	0				
5	QPSK	1	24	22.43	22.41	22.49	22.37	22.21	22.21	24	0				
5	QPSK	12	0	22.34	22.42	22.37	22.46	22.38	22.38	23	1				
5	QPSK	12	7	22.36	22.41	22.44	22.23	22.21	22.21	23	1				
5	QPSK	12	13	22.34	22.38	22.43	22.27	22.11	22.11	23	1				
5	QPSK	25	0	22.40	22.37	22.41	22.47	22.38	22.38	23	1				
5	16QAM	1	0	22.34	22.30	22.46	22.30	22.34	22.34	23	1				
5	16QAM	1	12	22.43	22.38	22.38	22.37	22.34	22.34	23	1				
5	16QAM	1	24	22.41	22.41	22.45	22.35	22.31	22.31	23	1				
5	16QAM	12	0	21.58	21.58	21.43	21.52	21.28	21.28	22	2				
5	16QAM	12	7	21.69	21.68	21.48	21.68	21.29	21.29	22	2				
5	16QAM	12	13	21.63	21.70	21.67	21.58	21.25	21.25	22	2				
5	16QAM	25	0	21.60	21.68	21.46	21.59	21.28	21.28	22	2				
5	64QAM	1	0	21.70	21.63	21.59	21.68	21.52	21.52	22	2				
5	64QAM	1	12	21.57	21.73	21.77	21.74	21.42	21.42	22	2				
5	64QAM	1	24	21.84	21.76	21.72	21.86	21.38	21.38	22	2				
5	64QAM	12	0	20.46	20.61	20.37	20.42	20.41	20.41	21	3				
5	64QAM	12	7	20.52	20.51	20.42	20.55	20.50	20						

Band 42_Ant 3										
BW (MHz)	Modulation	RB Freq.	RB Offset	Power Low Ch./Freq.	Power Nbrs Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPR (dB)		
Channels										
Frequency MIMO										
RB Freq.	RB Offset	Power Low Ch./Freq.	Power Nbrs Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPR (dB)				
20	QPSK	1	0	20.73	20.74	20.88				
20	QPSK	1	49	20.87	20.73	20.87		22	0	
20	QPSK	1	98	20.82	20.82	20.82				
20	QPSK	50	0	19.70	19.78	19.77				
20	QPSK	50	24	19.67	19.72	19.89		21	1	
20	QPSK	50	99	19.68	19.68	19.68				
20	QPSK	100	0	19.66	19.76	19.76				
20	16QAM	1	0	19.75	19.71	19.87		21	1	
20	16QAM	1	49	19.70	19.82	19.81				
20	16QAM	1	99	19.69	19.69	19.61				
20	16QAM	50	0	18.70	18.72	18.73				
20	16QAM	50	24	18.71	18.71	18.71				
20	16QAM	50	99	18.71	18.73	18.73		20	2	
20	16QAM	100	0	18.62	18.77	18.77				
20	16QAM	100	24	18.67	18.67	18.67				
20	16QAM	100	99	18.64	18.54	18.66		20	2	
20	64QAM	1	0	19.81	19.85	19.82				
20	64QAM	1	49	19.73	19.74	19.74				
20	64QAM	50	24	17.71	17.79	17.79		19	3	
20	64QAM	50	99	17.74	17.74	17.74				
20	256QAM	1	0	15.88	15.86	15.81		17	5	
20	256QAM	1	49	15.40	15.56	15.49				
20	256QAM	1	99	15.41	15.41	15.41				
20	256QAM	50	0	15.57	15.48	15.58				
20	256QAM	50	24	15.47	15.59	15.47		17	5	
20	256QAM	50	99	15.54	15.54	15.54				
20	256QAM	100	0	15.45	15.59	15.44				
Channels										
Frequency MIMO										
RB Freq.	RB Offset	Power Low Ch./Freq.	Power Nbrs Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPR (dB)				
15	QPSK	1	0	20.61	20.60	20.60				
15	QPSK	1	37	20.52	20.66	20.53		22	0	
15	QPSK	1	74	20.42	20.46	20.46				
15	QPSK	36	0	19.56	19.61	19.58				
15	QPSK	36	20	19.52	19.68	19.63		21	1	
15	QPSK	36	99	19.58	19.58	19.58				
15	QPSK	75	0	19.52	19.74	19.74				
15	16QAM	1	0	19.71	19.62	19.72		21	1	
15	16QAM	1	37	19.67	19.67	19.67				
15	16QAM	1	74	19.46	19.52	19.49				
15	16QAM	36	0	18.60	18.60	18.66		20	2	
15	16QAM	36	20	18.63	18.67	18.64				
15	16QAM	36	99	18.58	18.63	18.67				
15	16QAM	75	0	18.54	18.73	18.75				
15	64QAM	1	0	19.58	19.58	19.58				
15	64QAM	1	37	18.51	18.43	18.59		20	2	
15	64QAM	1	74	18.47	18.47	18.47				
15	64QAM	36	0	17.57	17.55	17.59		19	3	
15	64QAM	36	20	17.66	17.76	17.77				
15	64QAM	36	99	17.70	17.68	17.68				
15	256QAM	1	0	15.48	15.48	15.41		17	5	
15	256QAM	1	37	15.32	15.46	15.38				
15	256QAM	1	74	15.45	15.43	15.45				
15	256QAM	36	0	15.48	15.56	15.58				
15	256QAM	36	20	15.47	15.59	15.47		17	5	
15	256QAM	36	99	15.47	15.50	15.42				
15	256QAM	75	0	15.42	15.48	15.39				
Channels										
Frequency MIMO										
RB Freq.	RB Offset	Power Low Ch./Freq.	Power Nbrs Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPR (dB)				
10	QPSK	1	0	20.68	20.63	20.68				
10	QPSK	1	26	20.55	20.61	20.54		22	0	
10	QPSK	1	52	20.51	20.64	20.54				
10	QPSK	25	0	19.60	19.61	19.58				
10	QPSK	25	12	19.54	19.75	19.65		21	1	
10	QPSK	25	48	19.56	19.56	19.56				
10	QPSK	50	0	19.62	19.69	19.67				
10	16QAM	1	0	19.67	19.67	19.65		21	1	
10	16QAM	1	26	19.63	19.66	19.67				
10	16QAM	1	52	19.48	19.49	19.52				
10	16QAM	25	0	18.56	18.71	18.64		22	0	
10	16QAM	25	12	18.66	18.69	18.73				
10	16QAM	25	48	18.58	18.67	18.69				
10	16QAM	50	0	18.60	18.69	18.63		20	2	
10	64QAM	1	0	19.61	19.52	19.62				
10	64QAM	1	26	18.59	18.45	18.63		20	2	
10	64QAM	1	52	18.26	18.41	18.56				
10	64QAM	25	0	17.55	17.63	17.70		19	3	
10	64QAM	25	12	17.70	17.68	17.67				
10	256QAM	1	0	15.52	15.52	15.49		17	5	
10	256QAM	1	26	15.34	15.47	15.26				
10	256QAM	1	52	15.49	15.45	15.47				
10	256QAM	25	0	15.54	15.50	15.57				
10	256QAM	25	12	15.43	15.53	15.48		17	5	
10	256QAM	25	48	15.44	15.48	15.48				
10	256QAM	50	0	15.44	15.45	15.38				
Channels										
Frequency MIMO										
RB Freq.	RB Offset	Power Low Ch./Freq.	Power Nbrs Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPR (dB)				
5	QPSK	1	0	20.63	20.72	20.58				
5	QPSK	1	12	20.61	20.64	20.63		22	0	
5	QPSK	1	24	20.48	20.43	20.54				
5	QPSK	12	0	19.64	19.71	19.63				
5	QPSK	12	7	19.65	19.67	19.71		21	1	
5	QPSK	12	13	19.57	19.68	19.71				
5	QPSK	25	0	19.55	19.66	19.73				
5	16QAM	1	0	19.62	19.68	19.72		21	1	
5	16QAM	1	12	19.66	19.66	19.62				
5	16QAM	1	24	19.55	19.52	19.63				
5	16QAM	12	0	18.60	18.68	18.66		20	2	
5	16QAM	12	7	18.63	18.77	18.72				
5	16QAM	12	13	18.60	18.66	18.69				
5	16QAM	25	0	18.50	18.68	18.70		20	2	
5	64QAM	1	0	19.62	19.57	19.59				
5	64QAM	1	12	18.56	18.51	18.52		20	2	
5	64QAM	1	24	18.49	18.48	18.48				
5	64QAM	12	0	17.68	17.68	17.62		19	3	
5	64QAM	12	7	17.58	17.75	17.74				
5	256QAM	1	0	15.48	15.47	15.37		17	5	
5	256QAM	1	12	15.40	15.49	15.39				
5	256QAM	1	24	15.44	15.57	15.33				
5	256QAM	12	0	15.50	15.55	15.49				
5	256QAM	12	7	15.50	15.59	15.58				
5	256QAM	12	13	15.44	15.52	15.50		17	5	
5	256QAM	25	0	15.37	15.46	15.39				

Band 42_Ant 6										
BW (MHz)	Modulation	RB Freq.	RB Offset	Power Low Ch./Freq.	Power Nbrs Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPR (dB)		
Channels										
Frequency MIMO										
RB Freq.	RB Offset	Power Low Ch./Freq.	Power Nbrs Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPR (dB)				
20	QPSK	1	0	22.52	22.55	22.51				
20	QPSK	1	49	22.43	22.44	22.48		23.2	0	
20	QPSK	1	98	22.51	22.43	22.44				
20	QPSK	50	0	22.44	22.39	22.51				
20	QPSK	50	24	22.38	22.42	22.43		23.2	0	
20	QPSK	50	99	22.41	22.41	22.41				
20	QPSK	100	0	22.28	22.41	22.38				
20	16QAM	1	0	22.31	22.50	22.52		23.2	0	
20	16QAM	1	49	22.32	22.31	22.33				
20	16QAM	1	99	21.95	22.49	22.23				
20	16QAM	50	0	22.31	22.52	22.32				
20	16QAM	50	24	22.47	22.46	22.37		23.2	0	
20	16QAM	50	99	22.46	22.47	22.22				
20	16QAM	10								



n2_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)							
20	P1/2 BPSK	1	1	22.74	22.88	22.71	24.0
20	P1/2 BPSK	1	53	22.87	22.80	22.85	24.0
20	P1/2 BPSK	1	104	22.80	22.86	22.72	24.0
20	P1/2 BPSK	50	0	22.82	22.57	22.81	24.0
20	P1/2 BPSK	50	28	22.85	22.59	22.85	24.0
20	P1/2 BPSK	50	56	22.86	22.60	22.81	24.0
20	P1/2 BPSK	100	0	22.87	22.59	22.81	24.0
20	QPSK	1	1	22.76	22.81	22.75	24.0
20	QPSK	1	53	22.72	22.70	22.71	24.0
20	QPSK	1	104	22.70	22.72	22.74	24.0
20	QPSK	50	0	22.80	22.62	22.85	24.0
20	QPSK	50	28	22.86	22.74	22.80	24.0
20	QPSK	50	56	22.81	22.56	22.59	24.0
20	QPSK	100	0	22.87	22.70	22.85	24.0
20	16QAM	1	1	22.74	22.88	22.74	24.0
20	16QAM	1	1	21.88	21.80	21.85	22.0
20	256QAM	1	1	20.08	19.96	20.00	21.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.73	22.70	22.73	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.88	22.58	22.87	24.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	22.86	22.60	22.82	24.0

n2_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)							
20	P1/2 BPSK	1	1	22.01	22.43	22.27	24.0
20	P1/2 BPSK	1	53	22.46	22.37	22.21	24.0
20	P1/2 BPSK	1	104	22.34	22.27	22.13	24.0
20	P1/2 BPSK	50	0	22.43	22.28	22.10	23.5
20	P1/2 BPSK	50	28	22.29	22.23	22.09	24.0
20	P1/2 BPSK	50	56	22.33	22.27	22.10	23.5
20	P1/2 BPSK	100	0	22.36	22.30	22.13	23.5
20	QPSK	1	1	22.01	22.55	22.27	24.0
20	QPSK	1	53	22.48	22.40	22.21	24.0
20	QPSK	1	104	22.36	22.31	22.17	24.0
20	QPSK	50	0	22.16	22.06	21.92	23.0
20	QPSK	50	28	22.31	22.41	22.11	24.0
20	QPSK	50	56	22.01	21.92	21.76	23.0
20	QPSK	100	0	22.05	22.07	21.82	23.0
20	16QAM	1	1	22.51	22.42	22.26	23.0
20	16QAM	1	1	20.09	20.63	20.44	21.5
20	256QAM	1	1	18.62	18.44	18.30	19.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.48	22.30	22.14	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.45	22.35	22.21	24.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	22.50	22.32	22.21	24.0

n2_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)							
20	P1/2 BPSK	1	1	22.14	22.09	22.08	24.0
20	P1/2 BPSK	1	53	22.06	22.04	22.09	24.0
20	P1/2 BPSK	1	104	22.10	22.07	22.04	24.0
20	P1/2 BPSK	50	0	22.02	22.09	22.06	23.5
20	P1/2 BPSK	50	28	22.01	22.08	22.04	24.0
20	P1/2 BPSK	50	56	22.01	22.08	22.05	23.5
20	P1/2 BPSK	100	0	22.07	22.02	22.09	23.5
20	QPSK	1	1	22.10	22.05	22.02	24.0
20	QPSK	1	53	22.18	22.14	22.22	24.0
20	QPSK	1	104	22.10	22.15	22.12	24.0
20	QPSK	50	0	22.12	22.18	22.12	23.0
20	QPSK	50	28	22.16	22.22	22.10	24.0
20	QPSK	50	56	22.14	22.17	22.13	23.0
20	QPSK	100	0	22.12	22.19	22.14	23.0
20	16QAM	1	1	22.18	22.18	22.01	21.5
20	16QAM	1	1	20.81	20.96	20.43	21.5
20	256QAM	1	1	18.58	18.63	18.40	19.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.13	22.16	22.11	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.13	22.18	22.11	24.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	22.12	22.12	22.10	24.0



n5_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				844	836.5	838		
20	PIU-BPSK	1	1	22.80	22.82	22.77		
20	PIU-BPSK	1	53	22.87	22.84	22.88	24.0	0.0
20	PIU-BPSK	1	104	22.56	22.55	22.47		
20	PIU-BPSK	50	0	22.71	22.71	22.83	23.5	0.5
20	PIU-BPSK	50	28	22.68	22.66	22.68	24.0	0.0
20	PIU-BPSK	50	56	22.50	22.50	22.54		
20	PIU-BPSK	100	0	22.72	22.73	22.87	23.5	0.5
20	QPSK	1	1	22.50	22.54	22.77		
20	QPSK	1	53	22.72	22.68	22.84	24.0	0.0
20	QPSK	1	104	22.58	22.58	22.55		
20	QPSK	50	0	22.70	22.74	22.70	23.0	1.0
20	QPSK	50	28	22.75	22.73	22.75	24.0	0.0
20	QPSK	50	56	22.80	22.58	22.54	23.0	1.0
20	QPSK	100	0	22.81	22.57	22.84		
20	8QAM	1	1	22.51	22.50	22.44	23.0	1.0
20	8QAM	1	1	21.42	21.42	21.36	21.5	2.5
20	25QAM	1	1	19.33	19.33	19.27	19.5	4.5
Channel								
Frequency (MHz)				831.5	830.5	841.5		
15	QPSK	1	1	22.70	22.71	22.83	24.0	0.0
Channel								
Frequency (MHz)				820	830.5	844		
10	QPSK	1	1	22.78	22.67	22.69	24.0	0.0
Channel								
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.72	22.73	22.87	24.0	0.0

n5_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				844	836.5	838		
20	PIU-BPSK	1	1	22.80	22.80	22.56		
20	PIU-BPSK	1	53	22.81	22.49	22.50	24.0	0.0
20	PIU-BPSK	1	104	22.20	22.46	22.41		
20	PIU-BPSK	50	0	22.50	22.56	22.54	23.5	0.5
20	PIU-BPSK	50	28	22.50	22.54	22.50	24.0	0.0
20	PIU-BPSK	50	56	22.52	22.47	22.41		
20	PIU-BPSK	100	0	22.53	22.49	22.49	23.5	0.5
20	QPSK	1	1	22.50	22.83	22.51		
20	QPSK	1	53	22.50	22.56	22.50	24.0	0.0
20	QPSK	1	104	22.58	22.52	22.50		
20	QPSK	50	0	22.50	22.83	22.53	23.0	1.0
20	QPSK	50	28	22.57	22.83	22.51	24.0	0.0
20	QPSK	50	56	22.47	22.44	22.43	23.0	1.0
20	QPSK	100	0	22.47	22.46	22.43		
20	8QAM	1	1	20.20	20.26	20.20	23.0	1.0
20	8QAM	1	1	20.68	20.67	20.64	21.5	2.5
20	25QAM	1	1	18.05	18.97	18.00	19.5	4.5
Channel								
Frequency (MHz)				831.5	830.5	841.5		
15	QPSK	1	1	22.50	22.47	22.46	24.0	0.0
Channel								
Frequency (MHz)				820	830.5	844		
10	QPSK	1	1	22.54	22.40	22.44	24.0	0.0
Channel								
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.51	22.43	22.49	24.0	0.0

n7_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				24000	24000	24000		
40	PIU-BPSK	1	1	23.04	23.13	23.21		
40	PIU-BPSK	1	108	23.14	23.21	23.29	24.0	0.0
40	PIU-BPSK	1	214	23.00	23.16	23.26		
40	PIU-BPSK	108	0	23.09	23.05	23.14	23.5	0.5
40	PIU-BPSK	108	54	23.03	23.12	23.18	24.0	0.0
40	PIU-BPSK	108	108	23.02	23.12	23.19	23.5	0.5
40	PIU-BPSK	216	0	23.04	23.14	23.25		
40	QPSK	1	1	23.17	23.38	23.35		
40	QPSK	1	108	23.16	23.26	23.33	24.0	0.0
40	QPSK	1	214	23.14	23.22	23.32		
40	QPSK	108	0	23.00	23.08	23.14	24.0	0.0
40	QPSK	108	54	23.10	23.33	23.31	24.0	0.0
40	QPSK	108	108	23.04	23.20	23.22	24.0	0.0
40	QPSK	216	0	23.00	23.10	23.09		
40	16QAM	1	1	22.85	22.83	23.01	24.0	0.0
40	16QAM	1	1	21.88	21.74	21.81	22.0	2.0
40	25QAM	1	1	19.84	19.88	20.00	21.0	3.0
Channel								
Frequency (MHz)				23000	23000	23000		
30	QPSK	1	1	23.04	23.15	23.27	24.0	0.0
Channel								
Frequency (MHz)				2312.5	2315	2317.5		
25	QPSK	1	1	23.06	23.17	23.27	24.0	0.0
Channel								
Frequency (MHz)				2310	2315	2320		
20	QPSK	1	1	23.10	23.11	23.22	24.0	0.0
Channel								
Frequency (MHz)				2307.5	2315	2322.5		
15	QPSK	1	1	23.10	23.18	23.23	24.0	0.0
Channel								
Frequency (MHz)				2305	2310	2315		
10	QPSK	1	1	23.07	22.95	23.08	24.0	0.0
Channel								
Frequency (MHz)				2302.5	2310	2317.5		
5	QPSK	1	1	23.01	22.99	23.10	24.0	0.0



n7_Ant 1								
Band (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PB2-BPSK	1	1	23.13	23.23	23.21		
40	PB2-BPSK	1	108	23.05	23.17	23.15	24.0	0.0
40	PB2-BPSK	1	214	22.98	23.10	23.10		
40	PB2-BPSK	108	0	22.78	22.86	22.87	23.0	0.5
40	PB2-BPSK	108	54	23.05	23.15	23.13	24.0	0.0
40	PB2-BPSK	108	108	22.78	22.90	22.86		
40	PB2-BPSK	216	0	22.88	22.81	22.77	23.0	0.5
40	QPSK	1	1	23.14	23.26	23.22		
40	QPSK	1	108	23.06	23.18	23.16	24.0	0.0
40	QPSK	1	214	22.97	23.20	23.21		
40	QPSK	108	0	22.39	22.50	22.49	23.0	1.0
40	QPSK	108	54	23.10	23.20	23.11	24.0	0.0
40	QPSK	108	108	22.26	22.37	22.36	23.0	1.0
40	QPSK	216	0	22.35	22.46	22.43		
40	16QAM	1	1	23.13	22.30	22.27	23.0	1.0
40	16QAM	1	1	20.60	20.70	20.67	21.0	2.5
40	256QAM	1	1	19.07	19.16	19.13	19.0	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.15	25.35	25.55		
30	QPSK	1	1	23.83	23.16	23.11	24.0	0.0
30	QPSK	1	1	20.25	20.00	21.00		
30	QPSK	1	1	25.12.5	25.35	25.57.5		
25	QPSK	1	1	22.87	22.11	22.11	24.0	0.0
25	QPSK	1	1	20.00	19.700	19.300		
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.30	23.18	23.08	24.0	0.0
20	QPSK	1	1	21.00	19.700	19.300		
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.00	23.12	23.13	24.0	0.0
15	QPSK	1	1	21.00	20.35	20.65		
15	QPSK	1	1	19.00	19.700	19.300		
Channel								
Frequency (MHz)								
5	QPSK	1	1	23.01	23.19	23.15	24.0	0.0

n7_Ant 0								
Band (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PB2-BPSK	1	1	22.38	22.47	22.41		
40	PB2-BPSK	1	108	22.44	22.53	22.45	24.0	0.0
40	PB2-BPSK	1	214	22.36	22.48	22.37		
40	PB2-BPSK	108	0	22.36	22.48	22.39	23.0	0.5
40	PB2-BPSK	108	54	22.31	22.39	22.35	24.0	0.0
40	PB2-BPSK	108	108	22.36	22.41	22.32		
40	PB2-BPSK	216	0	22.34	22.43	22.39	23.0	0.5
40	QPSK	1	1	22.46	22.55	22.47		
40	QPSK	1	108	22.42	22.21	22.45	24.0	0.0
40	QPSK	1	214	22.45	22.54	22.37		
40	QPSK	108	0	22.12	22.21	22.17	23.0	1.0
40	QPSK	108	54	22.33	22.43	22.32	24.0	0.0
40	QPSK	108	108	22.00	22.11	22.03	23.0	1.0
40	QPSK	216	0	22.00	22.12	22.05		
40	16QAM	1	1	22.18	22.27	22.21	23.0	1.0
40	16QAM	1	1	20.48	20.57	20.51	21.0	2.5
40	256QAM	1	1	18.58	18.69	18.64	19.0	4.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.15	25.35	25.55		
30	QPSK	1	1	22.37	22.41	22.40	24.0	0.0
30	QPSK	1	1	20.00	20.00	21.00		
30	QPSK	1	1	25.12.5	25.35	25.57.5		
25	QPSK	1	1	22.41	22.44	22.34	24.0	0.0
25	QPSK	1	1	20.00	19.700	19.300		
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.34	22.44	22.39	24.0	0.0
20	QPSK	1	1	21.00	19.700	19.300		
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.19	22.43	22.33	24.0	0.0
15	QPSK	1	1	21.00	19.700	19.300		
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.37	22.48	22.30	24.0	0.0

n66_Ant 2								
Band (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	PB2-BPSK	1	1	22.81	22.73	22.57		
40	PB2-BPSK	1	108	22.75	22.88	22.81	24.0	0.0
40	PB2-BPSK	1	214	22.78	22.72	22.56		
40	PB2-BPSK	108	0	22.69	22.84	22.49	23.0	0.5
40	PB2-BPSK	108	54	22.65	22.88	22.43	24.0	0.0
40	PB2-BPSK	108	108	22.71	22.81	22.43		
40	PB2-BPSK	216	0	22.73	22.86	22.47	23.0	0.5
40	QPSK	1	1	22.77	22.85	22.57		
40	QPSK	1	108	22.70	22.71	22.56	24.0	0.0
40	QPSK	1	214	22.76	22.88	22.53		
40	QPSK	108	0	22.70	22.70	22.55	23.0	1.0
40	QPSK	108	54	22.70	22.82	22.56	24.0	0.0
40	QPSK	108	108	22.73	22.84	22.44	23.0	1.0
40	QPSK	216	0	22.64	22.70	22.58		
40	16QAM	1	1	22.73	22.68	22.48	23.0	1.0
40	16QAM	1	1	21.75	21.66	21.50	22.0	2.0
40	256QAM	1	1	20.34	20.28	20.08	21.0	3.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.71	22.87	22.48	24.0	0.0
30	QPSK	1	1	20.00	20.00	21.00		
30	QPSK	1	1	22.70	22.87	22.48		
20	QPSK	1	1	22.70	22.71	22.43	24.0	0.0
20	QPSK	1	1	20.00	20.00	21.00		
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.60	22.83	22.46	24.0	0.0
15	QPSK	1	1	20.00	20.00	21.00		
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.70	22.68	22.42	24.0	0.0



n66_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.	LU MPR (dB)
Channel							
Frequency (MHz)				1745	1745	1745	
40	PLO-BPSK	1	1	22.77	22.79	22.81	
40	PLO-BPSK	1	108	22.70	22.72	22.87	24.0
40	PLO-BPSK	1	214	22.62	22.62	22.80	
40	PLO-BPSK	108	4	22.73	22.73	22.87	23.5
40	PLO-BPSK	108	54	22.63	22.66	22.47	24.0
40	PLO-BPSK	108	108	22.65	22.62	22.40	
40	PLO-BPSK	216	0	22.71	22.75	22.87	23.5
40	QPSK	1	1	22.87	22.82	22.75	
40	QPSK	1	108	22.71	22.74	22.59	24.0
40	QPSK	1	214	22.58	22.52	22.38	
40	QPSK	108	0	22.43	22.47	22.32	23.0
40	QPSK	108	54	22.71	22.72	22.81	24.0
40	QPSK	108	108	22.33	22.33	22.14	23.0
40	QPSK	216	0	22.32	22.40	22.23	
40	16QAM	1	1	22.41	22.42	22.38	23.0
40	64QAM	1	1	20.97	21.01	20.83	21.5
40	256QAM	1	1	19.21	19.24	19.00	19.5
Channel							
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	22.70	22.66	22.49	24.0
Channel							
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	22.71	22.69	22.57	24.0
Channel							
Frequency (MHz)				1715	1745	1775	
15	QPSK	1	1	22.62	22.71	22.53	24.0
Channel							
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	22.70	22.71	22.59	24.0
Channel							
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	22.60	22.59	22.59	24.0

n66_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.	LU MPR (dB)
Channel							
Frequency (MHz)				1745	1745	1745	
40	PLO-BPSK	1	1	22.41	22.45	22.28	
40	PLO-BPSK	1	108	22.47	22.49	22.32	24.0
40	PLO-BPSK	1	214	22.42	22.43	22.27	
40	PLO-BPSK	108	0	22.07	22.08	21.89	23.5
40	PLO-BPSK	108	54	22.47	22.50	22.24	24.0
40	PLO-BPSK	108	108	22.03	22.05	21.87	23.5
40	PLO-BPSK	216	0	22.08	22.10	21.90	23.5
40	QPSK	1	1	22.49	22.53	22.37	
40	QPSK	1	108	22.43	22.48	22.27	24.0
40	QPSK	1	214	22.48	22.50	22.30	
40	QPSK	108	0	21.58	21.59	21.41	23.0
40	QPSK	108	54	21.65	22.07	21.20	24.0
40	QPSK	108	108	21.43	21.48	21.27	23.0
40	QPSK	216	0	21.55	21.59	21.38	
40	16QAM	1	1	21.32	21.41	21.21	23.0
40	64QAM	1	1	19.35	20.01	19.81	21.5
40	256QAM	1	1	18.34	18.35	18.15	19.5
Channel							
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	22.35	22.38	22.27	24.0
Channel							
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	22.34	22.40	22.31	24.0
Channel							
Frequency (MHz)				1715	1745	1775	
15	QPSK	1	1	22.25	22.41	22.24	24.0
Channel							
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	22.44	22.3	22.24	24.0
Channel							
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	22.40	22.47	22.20	24.0



n38_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				21800	21900	22000			
40	PQ2 BPSK	1	1	22.98	22.96	23.00			
40	PQ2 BPSK	1	63	22.87	22.86	22.94	24.0	0.0	
40	PQ2 BPSK	1	104	22.74	22.72	22.79			
40	PQ2 BPSK	56	5	22.92	22.91	22.97	23.5	0.5	
40	PQ2 BPSK	56	26	22.90	22.89	22.93	24.0	0.0	
40	PQ2 BPSK	56	56	22.78	22.76	22.81	23.5	0.5	
40	PQ2 BPSK	100	0	22.81	22.81	22.87			
40	QPSK	1	1	22.99	23.05	23.00			
40	QPSK	1	63	22.86	22.84	22.90	24.0	0.0	
40	QPSK	1	104	22.71	22.72	22.75			
40	QPSK	56	5	22.90	22.92	22.91			
40	QPSK	56	26	22.93	22.90	22.94	24.0	0.0	
40	QPSK	56	56	22.79	22.76	22.84			
40	QPSK	100	0	22.83	22.80	22.85	24.0	0.0	
40	16QAM	1	1	22.99	22.96	22.99	24.0	0.0	
40	16QAM	1	1	21.83	21.84	21.91	23.0	1.0	
40	16QAM	1	1	20.12	20.08	20.18	21.0	3.0	
Channel									
Frequency (MHz)				21900	21900	22000	Tune-up Int. (dBm)	MPR (dB)	
30	QPSK	1	1	22.91	22.85	22.88	24.0	0.0	
Channel									
Frequency (MHz)				21900	21900	22000	Tune-up Int. (dBm)	MPR (dB)	
20	QPSK	1	1	22.90	22.85	22.87	24.0	0.0	
Channel									
Frequency (MHz)				21900	21900	22000	Tune-up Int. (dBm)	MPR (dB)	
15	QPSK	1	1	22.83	22.89	22.85	24.0	0.0	
Channel									
Frequency (MHz)				21900	21900	22000	Tune-up Int. (dBm)	MPR (dB)	
10	QPSK	1	1	22.88	22.91	22.91	24.0	0.0	

n38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				21800	21900	22000			
40	PQ2 BPSK	1	1	23.03	23.15	23.15			
40	PQ2 BPSK	1	63	23.05	23.14	23.09	24.0	0.0	
40	PQ2 BPSK	1	104	22.90	22.89	22.86			
40	PQ2 BPSK	56	5	22.93	22.91	22.90	23.5	0.5	
40	PQ2 BPSK	56	26	22.90	22.92	22.86	24.0	0.0	
40	PQ2 BPSK	56	56	22.84	22.72	22.79	23.5	0.5	
40	PQ2 BPSK	100	0	22.87	22.80	22.83			
40	QPSK	1	1	23.00	23.17	23.15			
40	QPSK	1	63	23.00	23.10	23.11	24.0	0.0	
40	QPSK	1	104	22.92	23.03	22.97			
40	QPSK	56	5	23.32	23.44	23.43			
40	QPSK	56	26	23.30	23.15	23.18	24.0	0.0	
40	QPSK	56	56	22.25	22.33	22.27			
40	QPSK	100	0	22.29	22.42	22.39	23.0	1.0	
40	16QAM	1	1	22.27	22.36	22.32	23.0	1.0	
40	16QAM	1	1	20.67	20.70	20.73	21.5	2.5	
40	16QAM	1	1	18.11	18.24	18.22	19.5	4.5	
Channel									
Frequency (MHz)				21900	21900	22000	Tune-up Int. (dBm)	MPR (dB)	
30	QPSK	1	1	23.01	23.10	23.04	24.0	0.0	
Channel									
Frequency (MHz)				21900	21900	22000	Tune-up Int. (dBm)	MPR (dB)	
20	QPSK	1	1	22.91	23.00	23.08	24.0	0.0	
Channel									
Frequency (MHz)				21900	21900	22000	Tune-up Int. (dBm)	MPR (dB)	
15	QPSK	1	1	22.83	22.86	22.85	24.0	0.0	
Channel									
Frequency (MHz)				21900	21900	22000	Tune-up Int. (dBm)	MPR (dB)	
10	QPSK	1	1	23.00	23.12	23.05	24.0	0.0	



n38_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel				51800	51900	52000		
Frequency (MHz)								
40	PIQ BPSK	1	1	22.22	22.29	22.30	24.0	0.0
40	PIQ BPSK	1	53	22.12	22.20	22.23	24.0	0.0
40	PIQ BPSK	1	104	22.18	22.03	22.02		
40	PIQ BPSK	50	0	22.19	22.04	22.25	23.5	0.5
40	PIQ BPSK	50	28	22.15	22.04	22.06	24.0	0.0
40	PIQ BPSK	50	58	21.97	22.05	22.08	23.5	0.5
40	PIQ BPSK	100	0	22.00	22.10	22.14		
40	QPSK	1	1	22.23	22.31	22.30	24.0	0.0
40	QPSK	1	53	22.06	22.13	22.17		
40	QPSK	1	104	22.14	22.22	22.21		
40	QPSK	50	0	22.09	22.04	22.04		
40	QPSK	50	28	22.27	22.25	22.27	24.0	0.0
40	QPSK	50	58	22.09	22.09	22.12		
40	QPSK	100	0	21.83	21.75	21.72	23.0	1.0
40	8QAM	1	1	21.70	21.78	21.82	23.0	1.0
40	8QAM	1	1	20.14	20.21	20.22	21.5	2.5
40	256QAM	1	1	18.22	18.28	18.28	18.5	4.5
Channel				51900	51900	52000		
Frequency (MHz)								
30	QPSK	1	1	22.14	22.21	22.15	24.0	0.0
Channel				51900	51900	52000		
Frequency (MHz)								
20	QPSK	1	1	22.11	22.24	22.25	24.0	0.0
Channel				51900	51900	52000		
Frequency (MHz)								
15	QPSK	1	1	22.16	22.18	22.25	24.0	0.0
Channel				51900	51900	52000		
Frequency (MHz)								
10	QPSK	1	1	22.16	22.17	22.25	24.0	0.0

FCC_n41_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel				86600	86600	86600		
Frequency (MHz)								
100	PIQ BPSK	1	1	22.96	22.92	22.90		
100	PIQ BPSK	1	137	22.92	22.88	22.88	24.0	0.0
100	PIQ BPSK	1	271	22.83	22.86	22.86		
100	PIQ BPSK	135	0	22.98	22.91	22.89	23.5	0.5
100	PIQ BPSK	135	69	22.92	22.87	22.88	24.0	0.0
100	PIQ BPSK	135	138	22.83	22.86	22.87	23.5	0.5
100	PIQ BPSK	270	0	22.90	22.86	22.84		
100	QPSK	1	1	22.13	22.14	22.15		
100	QPSK	1	137	22.12	22.06	22.04	24.0	0.0
100	QPSK	1	271	22.10	22.07	22.08		
100	QPSK	135	0	22.98	22.96	22.97		
100	QPSK	135	69	22.92	22.87	22.88	24.0	0.0
100	QPSK	135	138	22.86	22.82	22.82		
100	QPSK	270	0	22.83	22.80	22.80	24.0	0.0
100	8QAM	1	1	22.09	22.04	22.02	20.0	0.0
100	8QAM	1	1	22.00	21.93	21.93	23.0	1.0
100	256QAM	1	1	20.21	20.15	20.15	21.0	3.0
Channel				86600	86600	86600		
Frequency (MHz)								
90	QPSK	1	1	23.06	23.02	22.94	24.0	0.0
Channel				86600	86600	86600		
Frequency (MHz)								
80	QPSK	1	1	23.00	22.90	22.95	24.0	0.0
Channel				86600	86600	86600		
Frequency (MHz)								
70	QPSK	1	1	23.00	23.03	22.91	24.0	0.0
Channel				86600	86600	86600		
Frequency (MHz)								
60	QPSK	1	1	23.00	22.95	22.92	24.0	0.0
Channel				86600	86600	86600		
Frequency (MHz)								
50	QPSK	1	1	23.00	22.97	22.94	24.0	0.0
Channel				86600	86600	86600		
Frequency (MHz)								
40	QPSK	1	1	22.99	22.96	22.98	24.0	0.0
Channel				86600	86600	86600		
Frequency (MHz)								
30	QPSK	1	1	23.03	22.97	22.92	24.0	0.0
Channel				86600	86600	86600		
Frequency (MHz)								
20	QPSK	1	1	23.03	22.96	22.90	24.0	0.0



FCC_n41_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PID BPSK	1	1	23.10	23.00	23.00	24.0	0.0		
100	PID BPSK	1	137	23.04	22.92	22.91	24.0	0.0		
100	PID BPSK	1	271	22.99	22.88	22.88	24.0	0.0		
100	PID BPSK	135	0	22.92	22.84	22.81	23.5	0.5		
100	PID BPSK	135	69	22.87	22.76	22.80	24.0	0.0		
100	PID BPSK	135	135	22.79	22.63	22.61	23.5	0.5		
100	PID BPSK	270	0	22.82	22.75	22.72	24.0	0.0		
100	QPSK	1	1	23.10	23.10	23.10	24.0	0.0		
100	QPSK	1	137	23.18	23.06	23.01	24.0	0.0		
100	QPSK	1	271	23.09	23.01	22.99	24.0	0.0		
100	QPSK	135	0	22.44	22.34	22.31	24.0	0.0		
100	QPSK	135	69	22.39	22.22	22.21	24.0	0.0		
100	QPSK	135	135	22.32	22.20	22.19	24.0	0.0		
100	QPSK	270	0	22.18	22.20	22.10	23.0	1.0		
100	64QAM	1	1	22.48	22.35	22.34	23.5	1.0		
100	64QAM	1	1	21.08	20.96	20.94	21.5	2.5		
100	256QAM	1	1	18.89	18.76	18.74	19.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	23.16	23.13	23.08	24.0	0.0		
Channel										
Frequency (MHz)										
2836.02	2592.99	2648.99	2648.99	24.0	0.0					
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.19	22.05	22.05	24.0	0.0		
Channel										
Frequency (MHz)										
2831.01	2592.99	2655	2655	24.0	0.0					
Channel										
Frequency (MHz)										
70	QPSK	1	1	23.19	23.10	23.09	24.0	0.0		
Channel										
Frequency (MHz)										
2826	2592.99	2658.98	2658.98	24.0	0.0					
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.21	23.14	23.08	24.0	0.0		
Channel										
Frequency (MHz)										
2821.02	2592.99	2664.99	2664.99	24.0	0.0					
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.19	23.14	23.07	24.0	0.0		
Channel										
Frequency (MHz)										
2816.01	2592.99	2670	2670	24.0	0.0					
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.23	23.11	23.06	24.0	0.0		
Channel										
Frequency (MHz)										
2811	2592.99	2674.98	2674.98	24.0	0.0					
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.25	23.08	23.02	24.0	0.0		
Channel										
Frequency (MHz)										
2806.02	2592.99	2678.99	2678.99	24.0	0.0					
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.19	23.15	23.08	24.0	0.0		

Par27Q_n78_Ant 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PID BPSK	1	1	22.92	22.92	22.92	24.0	0.0		
100	PID BPSK	1	137	23.18	23.06	23.04	24.0	0.0		
100	PID BPSK	1	271	23.15	23.05	23.05	24.0	0.0		
100	PID BPSK	135	0	23.06	22.95	22.95	23.5	0.5		
100	PID BPSK	135	69	23.10	22.99	22.99	24.0	0.0		
100	PID BPSK	135	135	22.97	22.83	22.81	23.5	0.5		
100	PID BPSK	270	0	23.12	23.02	23.02	24.0	0.0		
100	QPSK	1	1	23.10	23.10	23.10	24.0	0.0		
100	QPSK	1	137	23.18	23.06	23.01	24.0	0.0		
100	QPSK	1	271	23.16	23.06	23.06	24.0	0.0		
100	QPSK	135	0	23.02	22.91	22.91	24.0	0.0		
100	QPSK	135	69	23.05	22.95	22.95	24.0	0.0		
100	QPSK	135	135	22.92	22.79	22.79	24.0	0.0		
100	QPSK	270	0	23.02	22.91	22.91	24.0	0.0		
100	64QAM	1	1	21.85	21.75	21.75	23.0	0.8		
100	64QAM	1	1	21.84	21.74	21.74	23.0	1.0		
100	256QAM	1	1	20.24	20.24	20.24	21.0	3.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	23.10	23.08	23.04	24.0	0.0		
Channel										
Frequency (MHz)										
2830.02	2592.99	2648.99	2648.99	24.0	0.0					
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.28	22.01	22.00	24.0	0.0		
Channel										
Frequency (MHz)										
3485.01	3499.98	3514.98	3514.98	24.0	0.0					
Channel										
Frequency (MHz)										
70	QPSK	1	1	23.04	23.01	22.94	24.0	0.0		
Channel										
Frequency (MHz)										
3480	3499.98	3519.98	3519.98	24.0	0.0					
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.05	22.93	22.91	24.0	0.0		
Channel										
Frequency (MHz)										
3475.02	3499.98	3525	3525	24.0	0.0					
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.98	23.00	22.93	24.0	0.0		
Channel										
Frequency (MHz)										
3470.01	3499.98	3529.98	3529.98	24.0	0.0					
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.04	22.93	22.87	24.0	0.0		
Channel										
Frequency (MHz)										
3465	3499.98	3534.99	3534.99	24.0	0.0					
Channel										
Frequency (MHz)										
30	QPSK	1	1	23.04	22.97	22.87	24.0	0.0		
Channel										
Frequency (MHz)										
3460.02	3499.98	3540	3540	24.0	0.0					
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.01	23.03	22.89	24.0	0.0		
Channel										
Frequency (MHz)										
3455.09	3499.98	3545.40	3545.40	24.0	0.0					
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.97	22.90	22.80	24.0	0.0		
Channel										
Frequency (MHz)										
3450.04	3499.98	3544.90	3544.90	24.0	0.0					
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.98	23.02	22.95	24.0	0.0		

Par27Q_n78_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PID BPSK	1	1	19.90	19.90	19.90	21.0	0.0		
100	PID BPSK	1	137	19.84	19.84	19.84	21.0	0.0		
100	PID BPSK	1	271	19.91	19.91	19.91	21.0	0.0		
100	PID BPSK	135	0	19.93	19.83	19.83	21.0	0.0		
100	PID BPSK	135	69	19.88	19.88	19.88	21.0	0.0		
100	PID BPSK	135	135	19.86	19.86	19.86	21.0	0.0		
100	PID BPSK	270	0	19.85	19.85	19.85	21.0	0.0		
100	QPSK	1	1	20.00	20.00	20.00	21.0	0.0		
100	QPSK	1	137	19.97	19.97	19.97	21.0	0.0		
100	QPSK	1	271	19.88	19.88	19.88	21.0	0.0		
100	QPSK	135	0	19.81	19.81	19.81	21.0	0.0		
100	QPSK	135	69	19.87	19.87	19.87	21.0	0.0		
100	QPSK	135	135	19.79	19.79	19.79	21.0	0.0		
100	QPSK	270	0	19.73	19.73	19.73	21.0	0.0		
100	64QAM	1	1	19.75	19.75	19.75	21.0	0.0		
100	64QAM	1	1	18.48	18.48	18.48	19.0	2.0		
100	256QAM	1	1	17.21	17.21	17.21	17.5	3.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	19.96	19.91	19.92	21.0	0.0		
Channel										
Frequency (MHz)										
2830.02	2830.02	2830.02	2830.02	24.0	0.0					
Channel										
Frequency (MHz)										
80	QPSK	1	1	19.92	19.83	19.92	21.0	0.0		
Channel										
Frequency (MHz)										
3485.01	3499.98	3514.98	3514.98	24.0	0.0					
Channel										
Frequency (MHz)										
70	QPSK	1	1	19.93	19.89	19.93	21.0	0.0		
Channel										
Frequency (MHz)										
3480	3499.98	3519.98	3519.98	24.0	0.0					
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.95	19.90	19.88	21.0	0.0		
Channel										
Frequency (MHz)										
3475.02	3499.98	3525	3525	24.0	0.0					
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.85	19.95	19.96	21.0	0.0		
Channel										
Frequency (MHz)										
3470.01	3499.98	3529.98	3529.98	24.0	0.0					
Channel										
Frequency (MHz)										
40	QPSK	1	1	19.90	19.90	19.88	21.0	0.0		
Channel										
Frequency (MHz)										
3465	3499.98	3534.99	3534.99	24.0	0.0					
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.85	19.85	19.87	21.0	0.0		
Channel										
Frequency (MHz)										
3460.02	3499.98	3540	3540	24.0	0.0					
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.90	19.91	19.92	21.0	0.0		
Channel										
Frequency (MHz)										
3455.09	3499.98	3545.40	3545.40	24.0	0.0					
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.94	19.92	19.92	21.0	0.0		
Channel										
Frequency (MHz)										
3450.04	3499.98	3544.90	3544.90	24.0	0.0					
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.94	19.88	19.88	21.0	0.0		



Par27Q n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.19	20.19				
100	PI2 BPSK	1	137	20.20			21.0	0.0	
100	PI2 BPSK	1	271	20.18					
100	PI2 BPSK	135	0	20.15			21.0	0.0	
100	PI2 BPSK	135	66	20.20					
100	PI2 BPSK	135	135	20.19			21.0	0.0	
100	PI2 BPSK	270	0	20.18					
100	QPSK	1	1	20.25					
100	QPSK	1	137	20.19			21.0	0.0	
100	QPSK	1	271	20.13					
100	QPSK	135	0	20.13					
100	QPSK	135	66	20.22					
100	QPSK	135	135	20.13			21.0	0.0	
100	QPSK	270	0	20.19			21.0	0.0	
100	16QAM	1	1	20.16			21.0	0.0	
100	64QAM	1	1	20.22			21.0	0.0	
100	256QAM	1	1	20.15			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.11	20.23	20.16	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.17	20.21	20.19	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.18	20.17	20.17	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.20	20.17	20.15	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.11	20.21	20.19	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.21	20.18	20.16	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.21	20.20	20.18	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.21	20.12	20.13	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.12	20.22	20.23	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.16	20.16	20.11	21.0	0.0	

Par27Q n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.19	20.19				
100	PI2 BPSK	1	137	20.85					0.0
100	PI2 BPSK	1	271	20.87					
100	PI2 BPSK	135	0	20.91			22.0	0.0	
100	PI2 BPSK	135	66	20.85					0.0
100	PI2 BPSK	135	135	20.87			22.0	0.0	
100	PI2 BPSK	270	0	20.91					
100	QPSK	1	1	21.00					
100	QPSK	1	137	20.94					22.0
100	QPSK	1	271	20.89					
100	QPSK	135	0	20.83					
100	QPSK	135	66	20.85					22.0
100	QPSK	135	135	20.90					0.0
100	QPSK	270	0	20.78			22.0	0.0	
100	16QAM	1	1	20.85			22.0	0.0	
100	64QAM	1	1	19.27			20.5	1.5	
100	256QAM	1	1	17.77			18.5	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.93	20.99	20.99	20.99	22.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.92	20.88	20.94	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.96	20.87	20.95	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.95	20.93	20.96	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.96	20.90	20.85	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.94	20.88	20.85	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.89	20.95	20.85	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.89	20.92	20.87	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.96	20.95	20.95	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.87	20.87	20.86	22.0	0.0	



Reduced Power Mode for DS16

DS16B_Ant 0		Burl-Atmosp Power (dBm)			Frank-Atmosp Power (dBm)			Turn-up Limit (dBm)
TX Channel	150	180	205	158	189	201		
Frequency (MHz)	35.2	36.1	37.1	38.1	39.1	40.1	41.1	
GRM 1 Tx watt	32.92	32.43	32.81	33.69	33.91	33.43	33.81	
GRM 2 Tx watt	38.68	38.76	38.53	39.59	39.42	39.44	39.27	
GRM 3 Tx watt	28.89	27.61	28.65	29.60	29.89	29.01	29.65	
EDGE 1 Tx watt	29.23	29.63	29.69	29.69	29.43	29.69	29.69	
EDGE 2 Tx watt	25.04	24.58	24.82	25.59	25.04	24.59	24.82	
EDGE 3 Tx watt	23.26	23.22	23.04	23.76	23.00	23.96	23.74	
EDGE 4 Tx watt	21.28	21.15	21.10	21.69	21.36	21.59	21.59	

DS16B_Ant 2		Burl-Atmosp Power (dBm)			Frank-Atmosp Power (dBm)			Turn-up Limit (dBm)
TX Channel	512	661	810	512	661	810		
Frequency (MHz)	193.2	194.0	193.8	193.8	193.2	193.9	193.8	
GRM 1 Tx watt	29.73	29.61	29.78	29.69	29.73	29.81	29.78	
GRM 2 Tx watt	27.40	27.55	27.47	27.69	27.40	27.55	27.47	
GRM 3 Tx watt	25.99	25.78	25.71	25.89	25.43	25.59	25.45	
GRM 4 Tx watt	24.13	24.22	24.27	24.59	24.13	24.22	24.27	
EDGE 1 Tx watt	23.92	23.94	23.98	23.99	23.92	23.94	23.98	
EDGE 2 Tx watt	22.68	22.65	22.77	22.69	22.68	22.69	22.77	
EDGE 3 Tx watt	20.30	20.20	20.34	20.30	20.30	20.20	20.34	

Band		WCCMA IV_Ant 2			WCCMA IV_Ant 1			Turn-up Limit (dBm)
TX Channel	8662	9460	9508	8662	9460	9508		
Frequency (MHz)	152.4	23.09	22.99	24.00	19.00	19.24	19.22	
SCPP Ref 99	RMG 12 20bps	22.94	23.12	22.99	24.00	19.22	19.24	
SCPP Ref 6	HRDPA Subnet-1	21.90	22.00	22.11	23.00	18.21	18.80	
SCPP Ref 6	HRDPA Subnet-2	21.95	22.00	22.11	23.00	18.23	18.80	
SCPP Ref 6	HRDPA Subnet-3	21.44	21.53	21.59	22.50	17.79	18.01	
SCPP Ref 6	HRDPA Subnet-4	21.43	21.53	21.54	22.50	17.73	18.06	
SCPP Ref 6	DOHRDPA Subnet-1	21.88	21.98	22.00	23.00	18.26	18.53	
SCPP Ref 6	DOHRDPA Subnet-2	21.93	22.04	22.09	23.00	18.28	18.68	
SCPP Ref 6	DOHRDPA Subnet-3	21.44	21.51	21.57	22.50	17.76	18.05	
SCPP Ref 6	DOHRDPA Subnet-4	21.41	21.51	21.62	22.50	17.74	18.08	
SCPP Ref 6	HRUPA Subnet-1	21.94	22.01	22.17	23.00	18.24	18.54	
SCPP Ref 6	HRUPA Subnet-2	22.00	22.00	22.16	23.00	18.27	18.65	
SCPP Ref 6	HRUPA Subnet-3	21.52	21.63	21.16	22.50	17.30	17.58	
SCPP Ref 6	HRUPA Subnet-4	19.99	20.04	20.09	21.00	16.20	16.61	
SCPP Ref 6	HRUPA Subnet-5	22.00	22.00	22.20	23.00	18.25	18.63	

Band		WCCMA IV_Ant 0			WCCMA IV_Ant 1			Turn-up Limit (dBm)
TX Channel	4152	4182	4233	4152	4182	4233		
Frequency (MHz)	4357	4467	4458	4458	4357	4467	4458	
SCPP Ref 99	AMR 12 20bps	22.93	22.94	22.86	24.00	22.88	22.97	
SCPP Ref 6	RMG 12 20bps	22.96	22.97	22.89	24.00	22.88	22.90	
SCPP Ref 6	HRDPA Subnet-1	21.92	21.94	21.89	23.00	21.87	21.85	
SCPP Ref 6	HRDPA Subnet-2	21.45	21.59	21.38	22.50	21.44	21.49	
SCPP Ref 6	HRDPA Subnet-3	21.48	21.59	21.38	22.50	21.38	21.47	
SCPP Ref 6	DOHRDPA Subnet-1	21.52	21.65	21.66	23.00	21.54	21.52	
SCPP Ref 6	DOHRDPA Subnet-2	21.92	21.88	21.85	23.00	21.89	21.86	
SCPP Ref 6	DOHRDPA Subnet-3	21.42	21.38	21.35	22.50	21.41	21.46	
SCPP Ref 6	DOHRDPA Subnet-4	21.45	21.38	21.33	22.50	21.35	21.44	
SCPP Ref 6	HRUPA Subnet-1	21.99	21.99	21.82	23.00	21.97	21.92	
SCPP Ref 6	HRUPA Subnet-2	19.82	19.87	19.86	21.00	18.91	19.94	
SCPP Ref 6	HRUPA Subnet-3	20.75	20.90	20.84	22.00	20.80	20.91	
SCPP Ref 6	HRUPA Subnet-4	19.96	19.93	19.86	21.00	18.87	19.90	
SCPP Ref 6	HRUPA Subnet-5	21.90	21.00	21.80	23.00	21.80	21.90	

Band		WCCMA IV_Ant 2			WCCMA IV_Ant 1			Turn-up Limit (dBm)
TX Channel	1912	1618	1613	1912	1618	1613		
Frequency (MHz)	172.4	172.4	172.4	172.4	172.4	172.4	172.4	
SCPP Ref 99	AMR 12 20bps	22.95	22.99	22.73	24.00	19.77	19.91	
SCPP Ref 99	RMG 12 20bps	22.97	22.98	22.78	24.00	18.82	19.05	
SCPP Ref 6	HRDPA Subnet-1	21.96	21.72	21.98	23.00	17.89	17.77	
SCPP Ref 6	HRDPA Subnet-2	22.00	21.78	21.84	23.00	18.02	17.79	
SCPP Ref 6	HRDPA Subnet-3	21.53	21.20	21.47	22.50	17.33	17.27	
SCPP Ref 6	HRDPA Subnet-4	21.48	21.20	21.45	22.50	17.46	17.30	
SCPP Ref 6	DOHRDPA Subnet-1	21.94	21.79	21.84	23.00	18.00	17.73	
SCPP Ref 6	DOHRDPA Subnet-2	21.98	21.74	21.92	23.00	18.03	18.00	
SCPP Ref 6	DOHRDPA Subnet-3	21.91	21.21	21.40	22.50	17.96	17.30	
SCPP Ref 6	DOHRDPA Subnet-4	21.48	21.21	21.43	22.50	17.53	17.28	
SCPP Ref 6	HRUPA Subnet-1	21.97	21.69	21.99	23.00	17.99	17.77	
SCPP Ref 6	HRUPA Subnet-2	20.00	19.21	19.51	21.00	16.81	16.90	
SCPP Ref 6	HRUPA Subnet-3	20.89	20.60	21.00	22.00	18.95	18.78	
SCPP Ref 6	HRUPA Subnet-4	19.95	19.25	19.93	21.00	15.94	15.92	
SCPP Ref 6	HRUPA Subnet-5	22.00	21.80	22.00	23.00	17.95	17.74	



Band 2_Ant 2										
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Turn-up time (min)	MPE (dB)	MPE (dB)	MPE (dB)
30	QPSK	1	0	22.87	22.89	22.89	24	0		
30	QPSK	1	49	22.86	22.88	22.88				
30	QPSK	1	98	22.85	22.87	22.87				
30	QPSK	50	0	22.41	22.42	22.43				
30	QPSK	50	24	22.36	22.40	22.39				
30	QPSK	50	48	22.45	22.48	22.48				
30	QPSK	100	0	22.23	22.23	22.23				
30	QPSK	100	1	22.21	22.13	22.18				
30	QPSK	100	2	22.23	22.07	22.38				
30	QPSK	1	99	22.15	22.08	22.10				
30	QPSK	50	1	22.04	21.93	22.07				
30	QPSK	50	24	22.02	21.90	22.11				
30	QPSK	50	50	22.03	21.99	22.08				
30	QPSK	100	0	22.04	22.05	22.10				
30	QPSK	100	1	22.07	22.01	22.07				
30	QPSK	1	49	22.22	22.09	22.11				
30	QPSK	1	99	21.86	21.96	22.01				
30	QPSK	50	1	21.00	21.00	21.17				
30	QPSK	50	24	21.09	20.98	21.10				
30	QPSK	50	50	21.04	21.03	21.17				
30	QPSK	100	0	21.04	21.03	21.17				
30	QPSK	100	1	18.69	18.60	18.70				
30	QPSK	1	49	18.72	18.71	18.71				
30	QPSK	50	1	18.82	18.83	18.83				
30	QPSK	50	24	18.80	18.80	18.85				
30	QPSK	50	50	18.79	18.79	18.88				
30	QPSK	100	0	18.83	18.83	18.84				
30	QPSK	100	1	18.72	18.80	18.72				
	Channel			18975	18980	18975	Turn-up time (min)	MPE (dB)	MPE (dB)	MPE (dB)
15	QPSK	1	0	22.68	22.63	22.63	24	0		
15	QPSK	1	37	22.64	22.60	22.60				
15	QPSK	1	74	22.63	22.60	22.63				
15	QPSK	36	0	22.33	22.28	22.33				
15	QPSK	36	20	22.36	22.30	22.40				
15	QPSK	36	40	22.31	22.28	22.39				
15	QPSK	75	0	22.38	22.32	22.43				
15	QPSK	1	0	22.20	22.18	22.21				
15	QPSK	1	37	22.23	22.17	22.23				
15	QPSK	1	74	22.23	22.09	22.17				
15	QPSK	36	0	22.00	21.97	22.08				
15	QPSK	36	20	22.02	21.95	22.03				
15	QPSK	36	39	22.05	21.99	22.14				
15	QPSK	75	0	22.08	22.03	22.16				
15	QPSK	1	25	22.15	22.12	22.23				
15	QPSK	1	37	22.05	22.04	22.19				
15	QPSK	1	74	22.19	22.03	22.09				
15	QPSK	36	20	21.94	21.93	22.09				
15	QPSK	36	20	21.06	21.00	21.15				
15	QPSK	36	39	21.03	21.00	21.11				
15	QPSK	75	0	21.08	21.08	21.15				
15	QPSK	1	0	18.54	18.47	18.56				
15	QPSK	1	37	18.58	18.53	18.56				
15	QPSK	1	74	18.51	18.51	18.57				
15	QPSK	36	0	18.77	18.69	18.60				
15	QPSK	36	20	18.76	18.67	18.65				
15	QPSK	36	39	18.77	18.73	18.79				
15	QPSK	75	0	18.61	18.74	18.62				
	Channel			18975	18980	18975	Turn-up time (min)	MPE (dB)	MPE (dB)	MPE (dB)
10	QPSK	1	0	22.81	22.77	22.86	24	0		
10	QPSK	1	25	22.86	22.88	22.83				
10	QPSK	1	50	22.73	22.73	22.88				
10	QPSK	26	0	22.50	22.38	22.45				
10	QPSK	26	12	22.53	22.48	22.47				
10	QPSK	26	24	22.48	22.43	22.53				
10	QPSK	50	0	22.51	22.44	22.45				
10	QPSK	1	0	22.39	22.41	22.48				
10	QPSK	1	25	22.43	22.31	22.46				
10	QPSK	1	49	22.34	22.14	22.49				
10	QPSK	26	0	22.27	22.12	22.18				
10	QPSK	26	12	22.27	22.17	22.23				
10	QPSK	26	24	22.21	22.10	22.25				
10	QPSK	50	0	22.26	22.18	22.23				
10	QPSK	50	1	22.31	22.26	22.40				
10	QPSK	1	25	22.26	22.20	22.31				
10	QPSK	1	49	22.27	22.21	22.25				
10	QPSK	26	0	21.25	21.10	21.25				
10	QPSK	26	12	21.26	21.13	21.25				
10	QPSK	26	24	21.24	21.19	21.25				
10	QPSK	50	0	18.57	18.74	18.69				
10	QPSK	1	0	18.58	18.68	18.65				
10	QPSK	1	25	18.79	18.78	18.79				
10	QPSK	26	0	18.73	18.62	18.73				
10	QPSK	26	12	18.66	18.66	18.70				
10	QPSK	26	24	18.65	18.73	18.70				
10	QPSK	50	0	18.67	18.70	18.68				
	Channel			18975	18980	18975	Turn-up time (min)	MPE (dB)	MPE (dB)	MPE (dB)
5	QPSK	1	0	22.78	22.73	22.79	24	0		
5	QPSK	1	12	22.84	22.85	22.88				
5	QPSK	1	24	22.70	22.74	22.81				
5	QPSK	12	0	22.47	22.32	22.40				
5	QPSK	12	7	22.49	22.42	22.46				
5	QPSK	12	14	22.43	22.39	22.53				
5	QPSK	25	0	22.46	22.43	22.48				
5	QPSK	1	0	22.44	22.30	22.42				
5	QPSK	1	12	22.43	22.43	22.49				
5	QPSK	1	24	22.38	22.29	22.44				
5	QPSK	12	0	22.23	22.07	22.18				
5	QPSK	12	7	22.22	22.21	22.17				
5	QPSK	12	14	22.21	22.18	22.25				
5	QPSK	25	0	22.19	22.16	22.28				
5	QPSK	1	0	22.34	22.19	22.28				
5	QPSK	1	12	22.35	22.32	22.45				
5	QPSK	1	24	22.21	22.18	22.43				
5	QPSK	12	0	22.17	21.99	22.17				
5	QPSK	12	7	21.19	21.14	21.19				
5	QPSK	12	14	21.19	21.17	21.21				
5	QPSK	25	0	18.61	18.72	18.64				
5	QPSK	1	0	18.62	18.76	18.74				
5	QPSK	12	0	18.73	18.66	18.70				
5	QPSK	12	7	18.66	18.66	18.70				
5	QPSK	12	14	18.76	18.66	18.72				
5	QPSK	25	0	18.60	18.69	18.69				
	Channel			18975	18980	18975	Turn-up time (min)	MPE (dB)	MPE (dB)	MPE (dB)
3	QPSK	1	0	22.78	22.73	22.79	24	0		
3	QPSK	1	8	22.86	22.84	22.82				
3	QPSK	1	16	22.70	22.74	22.81				
3	QPSK	8	0	22.43	22.42	22.45				
3	QPSK	8	4	22.51	22.44	22.46				
3	QPSK	8	8	22.44	22.44	22.56				
3	QPSK	16	0	22.47	22.42	22.44				
3	QPSK	1	0	22.36	22.23	22.34				
3	QPSK	1	8	22.32	22.21	22.28				
3	QPSK	1	16	22.31	22.20	22.28				
3	QPSK	1	24	22.21	22.14	22.19				
3	QPSK	8	0	22.21	22.20	22.36				
3	QPSK	8	4	22.48	22.38	22.38				
3	QPSK	8	8	22.48	22.38	22.43				
3	QPSK	16	0	21.26	21.20	21.24				
3	QPSK	8	0	21.21	21.10	21.27				
3	QPSK	8	4	21.22	21.13	21.22				
3	QPSK	16	0	18.64	18.72	18.69				
3	QPSK	1	0	18.65	18.69	18.69				
3	QPSK	1	8	18.72	18.79	18.76				
3	QPSK	8	0	18.78	18.78	18.72				
3	QPSK	8	4	18.70	18.82	18.73				
3	QPSK	8	8	18.76	18.78	18.76				
3	QPSK	16	0	18.66	18.75	18.67				
	Channel			18975	18980	18975	Turn-up time (min)	MPE (dB)	MPE (dB)	MPE (dB)
1.4	QPSK	1	0	22.79	22.78	22.84	24	0		
1.4	QPSK	1	3	22.84	22.83	22.88				
1.4	QPSK	1	6	22.77	22.77	22.86				
1.4	QPSK	3	0	22.45	22.42	22.45				
1.4	QPSK	3	1	22.46	22.44	22.47				
1.4	QPSK	3	2	22.47	22.41	22.49				
1.4	QPSK	6	0	22.45	22.44	22.51				
1.4	QPSK	1	0	22.47	22.42	22.54				
1.4	QPSK	1	3	22.48	22.45	22.54				
1.4	QPSK	1	6	22.45	22.38	22.55				
1.4	QPSK	3	0	22.23	22.13	22.21				
1.4	QPSK	3	1	22.20	22.22	22.23				
1.4	QPSK	3	2	22.20	22.22	22.23				
1.4	QPSK	6	0	22.20	22.21	22.23				
1.4	QPSK	1	0	22.24	22.44	22.44				
1.4	QPSK	1	3	22.44	22.44	22.59				
1.4	QPSK	1	6	22.37	22.34	22.48				
1.4	QPSK	3	0	22.38	22.22	22.23				



Band 4_Ant 1																
BW (MHz)	Modulation	RB Spacing	RB Config.	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Time-up time (min)	MPE (dB)								
									Channel							
									7700		7800		7900			
									15.15		15.20		15.25		20.7	
20	QPSK	1	6	19.15	19.20	19.25										
20	QPSK	1	6	19.22	19.27	19.32										
20	QPSK	1	6	19.14	19.19	19.24										
20	QPSK	5	6	19.12	19.13	19.14										
20	QPSK	5	6	19.13	19.13	19.14										
20	QPSK	5	6	19.14	19.14	19.14										
20	QPSK	10	6	19.12	19.12	19.12										
20	QPSK	10	6	19.13	19.13	19.13										
20	QPSK	10	6	19.14	19.14	19.14										
20	QPSK	15	6	19.05	19.05	19.05										
20	QPSK	15	6	19.02	19.02	19.02										
20	QPSK	15	6	19.01	19.01	19.01										
20	QPSK	15	6	19.01	19.01	19.01										
20	QPSK	15	6	19.02	19.02	19.02										
20	QPSK	15	6	19.03	19.03	19.03										
20	QPSK	15	6	19.04	19.04	19.04										
20	QPSK	15	6	19.05	19.05	19.05										
20	QPSK	15	6	19.06	19.06	19.06										
20	QPSK	15	6	19.07	19.07	19.07										
20	QPSK	15	6	19.08	19.08	19.08										
20	QPSK	15	6	19.09	19.09	19.09										
20	QPSK	15	6	19.10	19.10	19.10										
20	QPSK	15	6	19.11	19.11	19.11										
20	QPSK	15	6	19.12	19.12	19.12										
20	QPSK	15	6	19.13	19.13	19.13										
20	QPSK	15	6	19.14	19.14	19.14										
20	QPSK	15	6	19.15	19.15	19.15										
20	QPSK	15	6	19.16	19.16	19.16										
20	QPSK	15	6	19.17	19.17	19.17										
20	QPSK	15	6	19.18	19.18	19.18										
20	QPSK	15	6	19.19	19.19	19.19										
20	QPSK	15	6	19.20	19.20	19.20										
20	QPSK	15	6	19.21	19.21	19.21										
20	QPSK	15	6	19.22	19.22	19.22										
20	QPSK	15	6	19.23	19.23	19.23										
20	QPSK	15	6	19.24	19.24	19.24										
20	QPSK	15	6	19.25	19.25	19.25										
20	QPSK	15	6	19.26	19.26	19.26										
20	QPSK	15	6	19.27	19.27	19.27										
20	QPSK	15	6	19.28	19.28	19.28										
20	QPSK	15	6	19.29	19.29	19.29										
20	QPSK	15	6	19.30	19.30	19.30										
20	QPSK	15	6	19.31	19.31	19.31										
20	QPSK	15	6	19.32	19.32	19.32										
20	QPSK	15	6	19.33	19.33	19.33										
20	QPSK	15	6	19.34	19.34	19.34										
20	QPSK	15	6	19.35	19.35	19.35										
20	QPSK	15	6	19.36	19.36	19.36										
20	QPSK	15	6	19.37	19.37	19.37										
20	QPSK	15	6	19.38	19.38	19.38										
20	QPSK	15	6	19.39	19.39	19.39										
20	QPSK	15	6	19.40	19.40	19.40										
20	QPSK	15	6	19.41	19.41	19.41										
20	QPSK	15	6	19.42	19.42	19.42										
20	QPSK	15	6	19.43	19.43	19.43										
20	QPSK	15	6	19.44	19.44	19.44										
20	QPSK	15	6	19.45	19.45	19.45										
20	QPSK	15	6	19.46	19.46	19.46										
20	QPSK	15	6	19.47	19.47	19.47										
20	QPSK	15	6	19.48	19.48	19.48										
20	QPSK	15	6	19.49	19.49	19.49										
20	QPSK	15	6	19.50	19.50	19.50										
20	QPSK	15	6	19.51	19.51	19.51										
20	QPSK	15	6	19.52	19.52	19.52										
20	QPSK	15	6	19.53	19.53	19.53										
20	QPSK	15	6	19.54	19.54	19.54										
20	QPSK	15	6	19.55	19.55	19.55										
20	QPSK	15	6	19.56	19.56	19.56										
20	QPSK	15	6	19.57	19.57	19.57										
20	QPSK	15	6	19.58	19.58	19.58										
20	QPSK	15	6	19.59	19.59	19.59										
20	QPSK	15	6	19.60	19.60	19.60										
20	QPSK	15	6	19.61	19.61	19.61										
20	QPSK	15	6	19.62	19.62	19.62										
20	QPSK	15	6	19.63	19.63	19.63										
20	QPSK	15	6	19.64	19.64	19.64										
20	QPSK	15	6	19.65	19.65	19.65										
20	QPSK	15	6	19.66	19.66	19.66										
20	QPSK	15	6	19.67	19.67	19.67										
20	QPSK	15	6	19.68	19.68	19.68										
20	QPSK	15	6	19.69	19.69	19.69										
20	QPSK	15	6	19.70	19.70	19.70										
20	QPSK	15	6	19.71	19.71	19.71										
20	QPSK	15	6	19.72	19.72	19.72										
20	QPSK	15	6	19.73	19.73	19.73										
20	QPSK	15	6	19.74	19.74	19.74										
20	QPSK	15	6	19.75	19.75	19.75										
20	QPSK	15	6	19.76	19.76	19.76										
20	QPSK	15	6	19.77	19.77	19.77										
20	QPSK	15	6	19.78	19.78	19.78										
20	QPSK	15	6	19.79	19.79	19.79										
20	QPSK	15	6	19.80	19.80	19.80										
20	QPSK	15	6	19.81	19.81	19.81										
20	QPSK	15	6	19.82	19.82	19.82										
20	QPSK	15	6	19.83	19.83	19.83										
20	QPSK	15	6	19.84	19.84	19.84										
20	QPSK	15	6	19.85	19.85	19.85										
20	QPSK	15	6	19.86	19.86	19.86										
20	QPSK	15	6	19.87	19.87	19.87										
20	QPSK	15	6	19.88	19.88	19.88										
20	QPSK	15	6	19.89	19.89	19.89										
20	QPSK	15	6	19.90	19.90	19.90										
20	QPSK	15	6	19.91	19.91	19.91										
20	QPSK	15	6	19.92	19.92	19.92										
20	QPSK	15	6	19.93	19.93	19.93										
20	QPSK	15	6	19.94	19.94	19.94										
20	QPSK	15	6	19.95	19.95	19.95										
20	QPSK	15	6	19.96	19.96	19.96										
20	QPSK	15	6	19.97	19.97	19.97										
20	QPSK	15	6	19.98	19.98	19.98										
20	QPSK	15	6	19.99	19.99	19.99										
20	QPSK	15	6	20.00	20.00	20.00										
20	QPSK	15	6	20.01	20.01	20.01										
20	QPSK	15	6	20.02	20.02	20.02										
20	QPSK	15	6	20.03	20.03	20.03										
20	QPSK	15	6	20.04	20.04	20.04										
20	QPSK	15	6	20.05	20.05	20.05										



Band 12_Ant 1											
BW (MHz)	Modulation	RB Size	RB Const.	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (min)	MPE (dB)			
Channel 1											
Frequency (MHz)											
10	QPSK	1	Q	22.41	22.42	22.38					
10	QPSK	1	Q	22.36	22.39	22.28	24	0			
10	QPSK	1	Q	22.33	22.33	22.28					
10	QPSK	25	Q	22.08	22.13	21.95					
10	QPSK	25	Q	22.08	22.09	21.94					
10	QPSK	25	Q	22.03	22.02	21.94	23	1			
10	QPSK	50	Q	22.07	22.08	22.00					
10	16QAM	1	Q	22.07	22.23	22.21					
10	16QAM	1	Q	22.16	22.28	22.28	23	1			
10	16QAM	1	Q	22.16	22.01	22.01					
10	16QAM	25	Q	20.96	20.96	20.97					
10	16QAM	25	Q	21.12	21.10	21.08	22	2			
10	16QAM	50	Q	21.12	20.96	21.08					
10	16QAM	1	Q	21.12	21.34	21.31					
10	16QAM	1	Q	21.39	21.20	21.25	22	2			
10	16QAM	1	Q	20.84	21.26	21.17					
10	16QAM	25	Q	19.99	20.07	20.08					
10	16QAM	25	Q	20.16	20.00	20.10	21	3			
10	16QAM	25	Q	20.03	20.04	20.17					
10	16QAM	50	Q	20.03	20.00	20.07					
10	256QAM	1	Q	18.00	18.12	17.97					
10	256QAM	1	Q	18.06	18.10	17.85	19	5			
10	256QAM	1	Q	17.96	18.06	17.87					
10	256QAM	25	Q	17.51	18.00	17.85					
10	256QAM	25	Q	17.56	18.00	17.87	19	5			
10	256QAM	25	Q	17.87	18.15	18.08					
10	256QAM	50	Q	18.02	18.11	18.01					
Channel 2											
Frequency (MHz)											
6	QPSK	1	Q	22.24	22.18	22.40					
6	QPSK	1	Q	22.39	22.52	22.41	24	0			
6	QPSK	1	Q	22.33	22.33	22.24					
6	QPSK	12	Q	21.91	21.96	21.96					
6	QPSK	12	Q	22.07	21.94	22.04	23	1			
6	QPSK	12	Q	22.03	22.03	22.03					
6	QPSK	25	Q	22.03	21.92	21.87					
6	16QAM	1	Q	22.16	22.10	22.19					
6	16QAM	1	Q	22.15	22.03	22.14	23	1			
6	16QAM	1	Q	22.17	22.31	22.40					
6	16QAM	12	Q	21.00	21.06	21.01					
6	16QAM	12	Q	21.03	21.07	21.04	22	2			
6	16QAM	12	Q	21.13	20.98	21.07					
6	16QAM	25	Q	21.08	21.13	21.08					
6	16QAM	1	Q	21.04	21.27	21.04					
6	16QAM	1	Q	21.12	21.18	21.22	22	2			
6	16QAM	1	Q	21.28	21.13	21.27					
6	16QAM	12	Q	19.89	20.04	19.95					
6	16QAM	12	Q	19.97	20.03	20.14	21	3			
6	16QAM	12	Q	20.13	20.06	20.25					
6	256QAM	1	Q	17.88	18.07	17.92					
6	256QAM	1	Q	18.01	18.06	17.87	19	5			
6	256QAM	1	Q	17.93	17.96	17.83					
6	256QAM	12	Q	17.50	17.85	17.81					
6	256QAM	12	Q	17.56	18.00	17.95	19	5			
6	256QAM	12	Q	17.87	18.05	18.07					
6	256QAM	25	Q	18.00	18.00	17.93					
Channel 3											
Frequency (MHz)											
3	QPSK	1	Q	22.19	22.22	22.22					
3	QPSK	1	Q	22.33	22.41	22.29	24	0			
3	QPSK	1	Q	22.29	22.34	22.23					
3	QPSK	8	Q	21.97	21.97	21.90					
3	QPSK	8	Q	22.03	21.99	22.05	23	1			
3	QPSK	8	Q	21.96	22.01	21.94					
3	QPSK	16	Q	22.00	21.98	21.97					
3	16QAM	1	Q	22.08	21.92	22.10					
3	16QAM	1	Q	22.13	22.21	22.19	23	1			
3	16QAM	1	Q	22.09	22.16	22.33					
3	16QAM	8	Q	21.19	20.96	21.03					
3	16QAM	8	Q	21.02	21.11	21.09	23	1			
3	16QAM	8	Q	21.08	21.07	21.02					
3	16QAM	16	Q	21.03	20.96	20.97					
3	16QAM	1	Q	21.40	21.14	21.15					
3	16QAM	1	Q	21.26	21.13	21.01	22	2			
3	16QAM	1	Q	20.84	21.04	21.06					
3	16QAM	8	Q	19.99	19.99	19.79					
3	16QAM	8	Q	20.03	20.09	20.05	21	3			
3	16QAM	8	Q	19.97	19.96	20.04					
3	16QAM	16	Q	19.97	19.95	19.92					
3	256QAM	1	Q	17.99	18.05	17.85	19	5			
3	256QAM	1	Q	17.85	17.96	17.81					
3	256QAM	8	Q	17.89	17.85	17.88					
3	256QAM	8	Q	17.91	17.94	17.78	19	5			
3	256QAM	8	Q	17.86	18.00	18.00					
3	256QAM	16	Q	17.84	18.06	17.92					
Channel 4											
Frequency (MHz)											
1.4	QPSK	1	Q	22.36	22.37	22.29					
1.4	QPSK	1	Q	22.36	22.28	22.22	24	0			
1.4	QPSK	1	Q	22.12	22.22	22.03					
1.4	QPSK	3	Q	22.23	22.24	22.23					
1.4	QPSK	3	Q	22.19	22.18	22.16					
1.4	QPSK	3	Q	22.23	22.32	22.19	23	1			
1.4	QPSK	6	Q	22.01	21.99	21.86					
1.4	16QAM	1	Q	21.92	22.14	22.08					
1.4	16QAM	1	Q	22.11	22.29	22.11	23	1			
1.4	16QAM	1	Q	22.10	21.94	22.20					
1.4	16QAM	3	Q	21.90	22.02	22.03					
1.4	16QAM	3	Q	21.96	22.24	22.03					
1.4	16QAM	3	Q	21.99	21.80	22.10	22	2			
1.4	16QAM	6	Q	20.97	20.81	21.00					
1.4	16QAM	1	Q	20.98	21.29	21.07					
1.4	16QAM	1	Q	21.30	21.06	21.16	22	2			
1.4	16QAM	1	Q	20.73	21.16	21.08					
1.4	16QAM	3	Q	20.51	20.95	20.95					
1.4	16QAM	3	Q	20.88	21.06	20.95	21	3			
1.4	16QAM	6	Q	19.80	19.85	19.78					
1.4	256QAM	1	Q	17.99	18.10	17.83					
1.4	256QAM	1	Q	18.09	18.09	17.82	19	5			
1.4	256QAM	3	Q	17.79	17.99	17.88					
1.4	256QAM	3	Q	17.85	17.99	17.89					
1.4	256QAM	3	Q	17.97	18.11	17.99					
1.4	256QAM	6	Q	17.88	17.96	17.91	19	5			

Band 13_Ant 0											
BW (MHz)	Modulation	RB Size	RB Const.	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Turn-up time (min)	MPE (dB)			
Channel 1											
Frequency (MHz)											
10	QPSK	1	Q	23.52							
10	QPSK	1	Q	23.24			24	0			
10	QPSK	1	Q	23.24							
10	QPSK	25	Q	23.07							
10	QPSK	25	Q	23.09			24	0			
10	QPSK	25	Q	23.01							
10	QPSK	50	Q	22.95							
10	16QAM	1	Q	23.28							
10	16QAM	1	Q	23.11			24	0			
10	16QAM	1	Q	23.30							
10	16QAM	25	Q	22.93							
10	16QAM	25	Q	22.95			23	1			
10	16QAM	25	Q	22.89							
10	16QAM	50	Q	22.96							
10	16QAM	50	Q	22							



Band 17_Ant 1															
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)							
									Channel	2160	2170	2180			
10	QPSK	1	0	22.35	22.35	22.35									
10	QPSK	1	25	22.27	22.32	22.28	24	0							
10	QPSK	1	49	22.31	22.33	22.28									
10	QPSK	25	0	22.11	22.14	22.12									
10	QPSK	25	12	22.10	21.98	22.01	23	1							
10	QPSK	25	25	22.00	22.02	22.07									
10	QPSK	50	0	22.01	22.05	22.00									
10	16QAM	1	0	22.26	22.23	22.30									
10	16QAM	1	25	22.12	22.20	22.18	23	1							
10	16QAM	1	49	22.38	22.30	22.34									
10	16QAM	25	0	20.98	21.01	20.98									
10	16QAM	25	12	21.14	21.10	21.11	22	2							
10	16QAM	25	25	21.08	21.05	21.08									
10	64QAM	1	25	21.28	21.00	21.25	22	2							
10	64QAM	1	49	21.19	21.23	21.03									
10	64QAM	25	0	20.94	20.90	20.98									
10	64QAM	25	12	20.39	20.19	20.34	21	3							
10	256QAM	1	0	18.17	18.18	18.06									
10	256QAM	1	25	18.01	18.13	18.05	19	5							
10	256QAM	1	49	18.11	18.20	18.12									
10	256QAM	25	0	18.00	18.14	18.04									
10	256QAM	25	12	18.10	18.18	18.11	19	5							
10	256QAM	25	25	18.04	18.17	18.03									
10	256QAM	50	0	18.08	18.20	18.07									
									Channel	2170	2170	2170			
									Frequency (MHz)	2160	2170	2180			
									Turn-up (dB)						
									MPE (dB)						
5	QPSK	1	0	22.30	22.18	22.11									
5	QPSK	1	12	22.30	22.31	22.34	24	0							
5	QPSK	1	24	22.00	22.01	22.00									
5	QPSK	12	0	22.00	21.99	21.96									
5	QPSK	12	7	22.05	22.11	21.95	23	1							
5	QPSK	12	13	22.11	22.04	22.04									
5	QPSK	25	0	22.04	21.98	21.98									
5	16QAM	1	0	22.28	22.19	22.01									
5	16QAM	1	12	22.02	22.10	22.09	23	2							
5	16QAM	1	24	22.33	22.04	22.33									
5	16QAM	12	0	21.92	21.92	21.98									
5	16QAM	12	7	21.14	20.97	20.99	22	2							
5	16QAM	12	13	21.13	21.00	21.00									
5	16QAM	25	0	20.98	21.04	20.90									
5	16QAM	25	12	21.28	21.34	21.25									
5	64QAM	1	12	21.33	21.20	21.34	22	2							
5	64QAM	1	24	21.84	21.26	21.50									
5	64QAM	12	0	20.93	20.97	20.99									
5	64QAM	12	7	19.98	20.05	20.20	21	3							
5	64QAM	12	13	20.09	19.96	20.04									
5	256QAM	1	0	18.02	18.10	18.04									
5	256QAM	1	12	17.89	18.05	18.01	19	5							
5	256QAM	1	24	18.07	18.18	18.05									
5	256QAM	12	0	17.88	18.13	17.89									
5	256QAM	12	7	18.14	18.06	18.06									
5	256QAM	12	13	18.05	18.08	17.90	19	5							
5	256QAM	25	0	17.85	18.08	17.85									
5	256QAM	25	12	17.85	18.08	17.85									
									Channel	2170	2170	2170			
									Frequency (MHz)	2160	2170	2180			
									Turn-up (dB)						
									MPE (dB)						

Band 25_Ant 2															
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)							
									Channel	2040	2050	2060			
10	QPSK	1	0	22.01	22.00	22.00									
10	QPSK	1	49	22.73	22.85	22.71	24	0							
10	QPSK	1	97	22.41	22.38	22.38									
10	QPSK	50	0	22.38	22.44	22.35									
10	QPSK	50	24	22.38	22.40	22.32	23	1							
10	QPSK	50	48	22.31	22.30	22.30									
10	QPSK	100	0	22.38	22.39	22.31									
10	16QAM	1	0	22.62	22.48	22.54									
10	16QAM	1	25	22.44	22.48	22.38	23	1							
10	16QAM	1	49	22.37	22.40	22.34									
10	16QAM	25	0	22.09	21.93	22.13									
10	16QAM	25	12	21.98	21.95	21.99	23	1							
10	16QAM	25	25	21.98	21.95	21.99									
10	64QAM	1	49	22.12	22.08	22.30	23	1							
10	64QAM	1	97	21.98	22.04	22.30									
10	64QAM	25	0	20.99	20.96	21.00									
10	64QAM	25	12	21.02	20.99	21.00	22	2							
10	64QAM	25	24	21.05	21.01	21.08									
10	256QAM	1	0	18.00	18.10	18.01									
10	256QAM	1	49	18.00	18.06	18.15	19	5							
10	256QAM	1	97	18.00	18.06	18.06									
10	256QAM	25	0	18.00	18.12	18.08									
10	256QAM	25	12	18.02	18.15	18.00	19	5							
10	256QAM	25	24	18.00	18.18	18.05									
10	256QAM	100	0	18.09	18.10	18.05									
									Channel	2040	2050	2060			
									Frequency (MHz)	2040	2050	2060			
									Turn-up (dB)						
									MPE (dB)						

Band 25_Ant 1															
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)							
									Channel	2040	2050	2060			
10	QPSK	1	0	20.96	21.00	20.94									
10	QPSK	1	49	20.88	20.92	20.79	22.2	0							
10	QPSK	1	97	20.85	20.83	20.81									
10	QPSK	50	0	20.78	20.82	20.78									
10	QPSK	50	24	20.82	20.80	20.85	22.2	0							
10	QPSK	50	48	20.75	20.79	20.79									
10	QPSK	100	0	20.85	20.84	20.85									
10	16QAM	1	0	20.87	20.91	20.88									
10	16QAM	1	25	20.72	20.80	20.78	22.2	0							
10	16QAM	1	49	20.82	20.84	20.85									
10	16QAM	25	0	20.58	20.40	20.75									
10	16QAM	25	12	20.52	20.50	20.75	22	0.2							
10	16QAM	25	24	20.52	20.50	20.75									
10	64QAM	1	49	20.54	20.54	20.85	22	0.2							
10	64QAM	1	97	20.34	20.71	20.59									
10	64QAM	25	0	19.89	19.94	19.73									
10	64QAM	25	12	19.92	19.93	19.83	21	1.2							
10	64QAM	25	24	19.94	19.94	19.85									
10	256QAM	1	0	18.00	18.10	18.00									
10	256QAM	1	49	18.08	18.10	18.05	19	3.2							
10	256QAM	1	97	18.00	18.13	18.00									
10	256QAM	25	0	18.07	18.08	17.96									
10	256QAM	25	12	18.10	18.14	18.00	19	3.2							
10	256QAM	25	24	18.00	18.11	18.04									
10	256QAM	100	0	18.00	18.10	18.13									
									Channel	2040	2050	2060			
									Frequency (MHz)	2040	2050	2060			
									Turn-up (dB)						
									MPE (dB)						

Band 25_Ant 0															
BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up (dB)	MPE (dB)							
									Channel	2040	2050	2060			
10	QPSK	1	0	22.02	22.00	22.00									
10	QPSK	1	49	22.92	23.01	22.90	24	0							
10	QPSK	1	97	22.41	22.38	22.38									
10	QPSK	50	0	22.38	22.44	22.35									
10	QPSK	50	24	22.38	22.40	22.32	23	1							
10	QPSK	50	48	22.31	22.30	22.30									



Band 26(FCC)_Ant 0												
BW	Modulation	RB Size	RB Offset	Floor Low Ch / Freq	Floor High Ch / Freq	Power High / Freq	Turnup Int (dB)	MFR (dB)				
Channel									29765	29765	29765	29765
Frequency (MHz)									811.5	811.5	811.5	811.5
15	QPSK	1	0	22.76	22.98	22.81	24	0				
15	QPSK	1	37	22.76	22.78	22.69						
15	QPSK	74	0	22.76	22.78	22.69						
15	QPSK	36	0	22.76	22.68	22.59						
15	QPSK	36	20	22.55	22.58	22.50						
15	QPSK	39	20	22.43	22.45	22.36						
15	QPSK	75	0	22.43	22.57	22.30						
15	16QAM	1	0	22.41	22.48	22.42	24	0				
15	16QAM	1	37	22.41	22.42	22.33						
15	16QAM	74	29	22.41	22.42	22.33						
15	16QAM	36	0	21.82	21.87	21.78						
15	256QAM	74	18	21.84	21.70	21.54						
15	256QAM	36	39	21.79	21.83	21.53						
15	16QAM	75	0	21.84	21.88	21.51						
15	84QAM	1	0	21.70	21.83	21.66						
15	84QAM	1	37	21.76	21.83	21.78						
15	84QAM	1	74	21.80	21.56	21.53						
15	84QAM	36	0	20.79	20.87	20.77						
15	84QAM	36	20	20.82	20.87	20.48						
15	84QAM	39	20	20.80	20.82	20.44						
15	84QAM	75	0	20.82	20.87	20.48						
15	256QAM	1	0	18.74	18.75	18.70						
15	256QAM	1	37	18.72	18.80	18.84						
15	256QAM	74	18	18.83	18.85	18.84						
15	256QAM	36	0	18.67	18.73	18.65						
15	256QAM	36	20	18.70	18.80	18.70						
15	256QAM	39	20	18.75	18.85	18.70						
15	256QAM	75	0	18.75	18.83	18.70						
Channel									29760	29760	29760	29760
Frequency (MHz)									811.5	811.5	811.5	811.5
10	QPSK	1	0	22.78	22.78	22.80	24	0				
10	QPSK	1	26	22.64	22.72	22.58						
10	QPSK	49	0	22.66	22.63	22.44						
10	QPSK	25	0	22.46	22.61	22.44						
10	QPSK	25	12	22.50	22.51	22.37						
10	QPSK	25	12	22.43	22.37	22.18						
10	QPSK	50	0	22.43	22.53	22.16						
10	16QAM	1	0	22.74	22.83	22.55	24	0				
10	16QAM	1	21	22.73	22.71	22.49						
10	16QAM	1	49	22.50	22.44	22.47						
10	16QAM	25	0	21.69	21.63	21.51						
10	16QAM	12	0	21.73	21.67	21.63						
10	16QAM	25	25	21.76	21.51	21.46						
10	16QAM	50	0	21.70	21.63	21.42						
10	84QAM	1	0	21.59	21.78	21.64						
10	84QAM	1	25	21.56	21.71	21.58						
10	84QAM	1	49	21.85	21.49	21.38						
10	84QAM	1	0	20.79	20.80	20.30						
10	84QAM	25	12	20.81	20.54	20.47						
10	84QAM	25	25	20.71	20.58	20.44						
10	84QAM	50	0	20.71	20.57	20.44						
10	256QAM	1	0	18.69	18.72	18.56						
10	256QAM	1	37	18.66	18.72	18.59						
10	256QAM	49	18	18.81	18.81	18.81						
10	256QAM	25	0	18.62	18.67	18.52						
10	256QAM	25	12	18.67	18.77	18.55						
10	256QAM	25	25	18.61	18.73	18.66						
10	256QAM	50	0	18.68	18.81	18.81						
Channel									29715	29715	29715	29715
Frequency (MHz)									811.5	811.5	811.5	811.5
5	QPSK	1	0	22.82	22.86	22.81	24	0				
5	QPSK	1	12	22.61	22.67	22.60						
5	QPSK	14	0	22.61	22.68	22.65						
5	QPSK	12	0	22.57	22.66	22.50						
5	QPSK	12	7	22.51	22.47	22.39						
5	QPSK	12	7	22.38	22.40	22.28						
5	QPSK	25	0	22.32	22.54	22.28						
5	16QAM	1	0	22.74	22.75	22.53	24	0				
5	16QAM	1	12	22.78	22.68	22.46						
5	16QAM	1	24	22.82	22.46	22.44						
5	16QAM	12	0	21.67	21.58	21.56						
5	16QAM	7	0	21.69	21.68	21.67						
5	16QAM	12	13	21.72	21.55	21.46						
5	16QAM	25	0	21.62	21.86	21.38						
5	84QAM	1	0	21.67	21.78	21.66						
5	84QAM	1	12	21.61	21.76	21.72						
5	84QAM	1	24	21.66	21.42	21.49						
5	84QAM	1	0	20.64	20.62	20.44						
5	84QAM	12	7	20.72	20.59	20.45						
5	84QAM	12	13	20.69	20.47	20.46						
5	84QAM	25	0	20.69	20.55	20.46						
5	256QAM	1	0	18.60	18.52	18.59						
5	256QAM	1	12	18.66	18.76	18.84						
5	256QAM	14	0	18.71	18.72	18.64						
5	256QAM	12	0	18.62	18.70	18.52						
5	256QAM	12	7	18.67	18.77	18.55						
5	256QAM	12	13	18.61	18.73	18.74						
5	256QAM	25	0	18.61	18.75	18.61						
Channel									29715	29715	29715	29715
Frequency (MHz)									811.5	811.5	811.5	811.5
3	QPSK	1	0	22.76	22.78	22.77	24	0				
3	QPSK	1	8	22.63	22.67	22.64						
3	QPSK	14	0	22.68	22.64	22.44						
3	QPSK	8	0	22.46	22.55	22.52						
3	QPSK	8	4	22.52	22.47	22.41						
3	QPSK	8	4	22.38	22.32	22.24						
3	QPSK	15	0	22.42	22.47	22.17						
3	16QAM	1	0	22.72	22.74	22.52	24	0				
3	16QAM	1	8	22.74	22.68	22.46						
3	16QAM	1	14	22.86	22.43	22.38						
3	16QAM	8	0	21.79	21.61	21.53						
3	16QAM	8	4	21.74	21.58	21.47						
3	16QAM	8	7	21.85	21.56	21.52						
3	16QAM	15	0	21.79	21.86	21.43						
3	84QAM	1	0	21.63	21.82	21.67						
3	84QAM	1	8	21.72	21.70	21.70						
3	84QAM	1	14	21.68	21.52	21.46						
3	84QAM	8	0	20.73	20.88	20.56						
3	84QAM	8	7	20.76	20.57	20.41						
3	84QAM	15	0	20.79	20.84	20.45						
3	256QAM	1	0	18.72	18.74	18.61						
3	256QAM	1	8	18.66	18.70	18.59						
3	256QAM	14	0	18.88	18.87	18.88						
3	256QAM	8	0	18.69	18.65	18.53						
3	256QAM	8	4	18.65	18.77	18.55						
3	256QAM	8	7	18.61	18.75	18.71						
3	256QAM	15	0	18.74	18.73	18.65						
Channel									29715	29715	29715	29715
Frequency (MHz)									811.5	811.5	811.5	811.5
1.4	QPSK	1	0	22.86	22.82	22.77	24	0				
1.4	QPSK	1	3	22.63	22.65	22.58						
1.4	QPSK	1	5	22.64	22.60	22.38						
1.4	QPSK	3	0	22.77	22.49	22.33						
1.4	QPSK	3	1	22.83	22.52	22.31						
1.4	QPSK	3	3	22.71	22.66	22.38						
1.4	QPSK	6	0	22.70	22.43	22.32						
1.4	16QAM	1	0	22.78	22.60	22.31	24	0				
1.4	16QAM	1	3	22.82	22.72	22.55						
1.4	16QAM	1	5	22.80	22.46	22.65						
1.4	16QAM	3	0	22.79	22.60	22.42						
1.4	16QAM	3	1	22.88	22.75	22.60						
1.4	16QAM	3	3	22.74	22.46	22.46						
1.4	16QAM	6	0	22.69	21.97	21.98						
1.4	84QAM	1	0	22.18	21.86	21.81	23	1				
1.4	84QAM	1	3	22.14	21.70	21.60						
1.4	84QAM	3	1	22.05	21.76	21.59						
1.4	84QAM	3	3	22.03	20.78	20.91						
1.4	84QAM	6	0	20.92	20.78	20.56						
1.4	256QAM	1	0	18.71	18.70	18.69						
1.4	256QAM	1	3	18.65	18.70	18.63						
1.4	256QAM	1	5	18.73	18.72	18.71						
1.4	256QAM	3	0	18.59	18.61	18.54						
1.4	256QAM	3	1	18.74	18.81	18.75						
1.4	256QAM	3	3	18.64	18.75	18.74						
1.4	256QAM	6	0	18.73	18.73	18.72						

Band 26(FCC)_Ant 1												
BW	Modulation	RB Size	RB Offset	Floor Low Ch / Freq	Floor High Ch / Freq	Power High / Freq	Turnup Int (dB)	MFR (dB)				
Channel									29765	29765	29765	29765
Frequency (MHz)									811.5	811.5	811.5	811.5
15	QPSK	1	0	22.70	22.74	22.63	24	0				
15	QPSK	1	37	22.66	22.70	22.60						
15	QPSK	74	0	22.66	22.68	22.59						
15	QPSK	36	0	22.00	22.04	22.16						
15	QPSK	36	20	22.17	22.20	22.10						
15	QPSK	39	20	22.18								



Band 66_Ant 1										
BY (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tuneup (MHz)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.25	19.25	19.25				
20	QPSK	1	48	19.16	19.22	19.17	20.7	0		
20	QPSK	1	96	19.07	19.13	19.11				
20	QPSK	50	0	19.15	19.20	19.20				
20	QPSK	50	24	19.05	19.16	19.17	20.7	0		
20	QPSK	50	48	19.16	19.22	19.14				
20	QPSK	100	0	19.19	19.24	19.12				
20	HQAM	1	0	19.14	19.21	19.09	20.7	0		
20	HQAM	1	48	19.12	19.15	19.14				
20	HQAM	1	96	19.10	19.27	19.19				
20	HQAM	50	0	19.06	19.15	19.14				
20	HQAM	50	24	19.07	19.22	19.10	20.7	0		
20	HQAM	50	48	19.10	19.17	19.21				
20	HQAM	100	0	19.15	19.24	19.15				
20	HQAM	100	0	19.05	19.23	19.19				
20	HQAM	1	48	19.09	19.14	19.17	20.7	0		
20	HQAM	1	96	19.06	19.19	19.18				
20	HQAM	50	0	19.10	19.13	19.13				
20	HQAM	50	24	19.10	19.25	19.13	20.7	0		
20	HQAM	50	48	19.16	19.24	19.19				
20	HQAM	100	0	19.09	19.14	19.21				
20	SSBAM	1	0	18.95	18.95	18.20				
20	SSBAM	1	48	18.97	18.97	18.15	19	1.7		
20	SSBAM	1	96	18.97	18.11	18.25				
20	SSBAM	50	0	18.98	18.11	18.15				
20	SSBAM	50	24	18.94	18.17	18.22	19	1.7		
20	SSBAM	50	48	18.94	18.13	18.26				
20	SSBAM	100	0	18.16	18.20	18.21				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.06	19.21	19.10				
15	QPSK	1	37	19.11	19.08	18.97	20.7	0		
15	QPSK	1	74	19.02	19.14	19.02				
15	QPSK	36	0	19.16	19.22	19.15				
15	QPSK	36	20	18.95	19.08	19.16	20.7	0		
15	QPSK	36	40	19.15	19.16	19.09				
15	QPSK	75	0	19.17	19.16	19.05				
15	HQAM	1	0	19.02	19.12	18.99	20.7	0		
15	HQAM	1	37	19.02	19.14	19.13				
15	HQAM	1	74	19.04	19.23	19.12				
15	HQAM	36	0	18.97	19.00	19.10	20.7	0		
15	HQAM	36	20	18.96	19.20	19.05				
15	HQAM	36	36	19.03	19.09	19.10				
15	HQAM	75	0	19.06	19.23	19.08				
15	HQAM	1	0	18.90	19.12	19.12				
15	HQAM	1	37	19.02	19.00	19.13	20.7	0		
15	HQAM	1	74	18.96	18.99	19.15				
15	HQAM	36	0	19.00	18.99	19.05	20.7	0		
15	HQAM	36	20	19.15	19.22	19.06				
15	HQAM	36	36	19.02	19.10	19.17				
15	HQAM	75	0	18.93	19.04	19.08				
15	SSBAM	1	0	17.92	17.96	17.77				
15	SSBAM	1	37	17.94	17.89	17.92	19	1.7		
15	SSBAM	1	74	17.94	18.00	17.96				
15	SSBAM	36	0	17.94	17.91	17.91				
15	SSBAM	36	20	17.96	17.96	17.93	19	1.7		
15	SSBAM	36	36	17.94	17.96	17.93				
15	SSBAM	75	0	17.97	18.03	18.01				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.08	19.20	19.13				
10	QPSK	1	25	19.13	19.12	19.07	20.7	0		
10	QPSK	1	49	19.06	19.12	19.14				
10	QPSK	25	0	19.04	19.19	19.09				
10	QPSK	25	12	19.02	19.05	19.11	20.7	0		
10	QPSK	25	25	19.02	19.20	19.06				
10	QPSK	50	0	19.18	19.16	19.02				
10	HQAM	1	0	19.02	19.17	19.01	20.7	0		
10	HQAM	1	25	18.96	19.07	19.03				
10	HQAM	1	49	18.97	19.17	19.13				
10	HQAM	25	0	18.97	19.14	19.00	20.7	0		
10	HQAM	25	12	19.02	19.21	19.05				
10	HQAM	25	25	19.02	19.13	19.15				
10	HQAM	50	0	19.16	19.09	19.00				
10	HQAM	1	0	18.97	19.14	19.04	20.7	0		
10	HQAM	1	25	19.07	19.13	19.06				
10	HQAM	1	49	18.96	19.11	19.17				
10	HQAM	25	0	19.07	19.12	19.04	20.7	0		
10	HQAM	25	12	19.02	19.20	19.09				
10	HQAM	25	25	19.11	19.15	19.07				
10	HQAM	50	0	19.07	19.13	19.11				
10	SSBAM	1	0	17.90	17.99	17.77				
10	SSBAM	1	25	17.94	17.89	17.93	19	1.7		
10	SSBAM	1	49	17.97	17.96	17.93				
10	SSBAM	25	0	17.92	17.89	17.91				
10	SSBAM	25	12	17.96	17.94	17.92	19	1.7		
10	SSBAM	25	25	17.94	18.00	17.95				
10	SSBAM	50	0	17.91	17.99	18.00				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.05	19.23	19.18				
5	QPSK	1	12	19.15	19.20	19.05	20.7	0		
5	QPSK	1	24	19.06	19.09	19.11				
5	QPSK	12	0	19.08	19.24	19.11				
5	QPSK	12	7	18.96	19.02	19.11	20.7	0		
5	QPSK	12	13	19.13	19.07	19.13				
5	QPSK	25	0	19.18	19.09	19.03				
5	HQAM	1	0	19.11	19.09	19.05	20.7	0		
5	HQAM	1	12	18.97	19.12	19.10				
5	HQAM	1	24	18.97	19.12	19.15				
5	HQAM	12	0	18.93	19.10	19.01	20.7	0		
5	HQAM	12	7	18.92	19.19	19.09				
5	HQAM	12	13	19.02	19.14	19.15				
5	HQAM	25	0	19.02	19.09	19.06				
5	HQAM	1	0	18.90	19.08	19.05	20.7	0		
5	HQAM	1	12	19.02	19.09	19.04				
5	HQAM	1	24	18.97	19.13	19.06				
5	HQAM	12	0	18.92	19.04	19.03	20.7	0		
5	HQAM	12	7	19.10	19.16	19.10				
5	HQAM	12	13	19.05	19.05	19.18				
5	HQAM	25	0	19.05	19.16	19.01				
5	SSBAM	1	0	17.81	17.87	17.87				
5	SSBAM	1	12	17.78	17.87	17.81	19	1.7		
5	SSBAM	1	24	17.84	17.84	17.95				
5	SSBAM	12	0	17.79	17.89	17.92				
5	SSBAM	12	7	17.87	17.83	17.84	19	1.7		
5	SSBAM	12	13	17.91	17.89	17.84				
5	SSBAM	25	0	17.89	18.01	18.04				
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.10	19.25	19.19				
3	QPSK	1	8	19.12	19.16	19.05	20.7	0		
3	QPSK	1	14	19.05	19.17	19.13				
3	QPSK	8	0	19.16	19.21	19.07				
3	QPSK	8	4	18.93	19.10	19.03	20.7	0		
3	QPSK	8	7	19.16	19.20	19.11				
3	QPSK	16	0	19.11	19.09	19.00				
3	HQAM	1	0	18.90	19.13	19.06	20.7	0		
3	HQAM	1	8	19.02	19.09	19.06				
3	HQAM	1	14	19.00	19.17	19.11				
3	HQAM	8	0	19.02	19.13	19.11				
3	HQAM	8	4	18.90	19.13	19.00	20.7	0		
3	HQAM	8	7	19.06	19.13	19.19				
3	HQAM	16	0	19.10	19.15	19.13				
3	HQAM	1	0	18.90	19.20	19.06				
3	HQAM	1	8	18.90	19.05	19.04	20.7	0		
3	HQAM	1	14	19.05	19.05</					



Band 38_Ant 2																		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch [F/Freq]	Power Mid Ch [F/Freq]	Power High Ch [F/Freq]	Timeup Int (sec)	MFR (dB)						MFR (dB)				
Options									37800	38000	38100							
Frequency (MHz)									2955	2955	2955							
20	QPSK	1	0	22.98	22.95	22.94												
20	QPSK	1	49	22.85	22.84	22.79		24	0									
20	QPSK	1	98	22.82	22.78	22.71		24	0									
20	QPSK	50	0	22.84	22.82	22.74												
20	QPSK	50	24	22.78	22.71	22.71		23	0.3									
20	QPSK	50	49	22.81	22.82	22.82		23	0.3									
20	QPSK	100	0	22.72	22.72	22.68												
20	16QAM	1	0	22.92	22.85	22.65		24	0									
20	16QAM	1	49	22.87	22.81	22.76		24	0									
20	16QAM	50	0	22.82	22.82	22.76												
20	16QAM	50	24	22.76	22.71	22.71		23	1									
20	16QAM	50	49	22.81	22.82	22.82		23	1									
20	16QAM	100	0	22.82	22.82	22.76												
20	16QAM	100	24	22.76	22.71	22.71		22	2									
20	16QAM	100	49	22.82	22.82	22.82		22	2									
20	64QAM	1	0	22.97	22.84	22.59		23	1									
20	64QAM	1	49	22.87	22.81	22.76		23	1									
20	64QAM	50	0	22.82	22.82	22.76												
20	64QAM	50	24	22.76	22.71	22.71		21	3									
20	64QAM	50	49	22.81	22.82	22.82		21	3									
20	64QAM	100	0	22.82	22.82	22.76												
20	64QAM	100	24	22.76	22.71	22.71		21	3									
20	64QAM	100	49	22.82	22.82	22.82		21	3									
20	256QAM	1	0	19.17	19.26	19.29												
20	256QAM	1	49	19.38	19.40	19.34		21	3									
20	256QAM	1	98	19.34	19.32	19.26		21	3									
20	256QAM	50	0	19.15	19.28	19.17												
20	256QAM	50	24	19.19	19.35	19.18		21	3									
20	256QAM	50	49	19.24	19.45	19.35		21	3									
20	256QAM	100	0	19.28	19.38	19.32												
Options									37875	38000	38175	Timeup Int (sec)					MFR (dB)	
Frequency (MHz)									2977.5	2977.5	2977.5							
18	QPSK	1	0	22.74	22.75	22.58												
18	QPSK	1	37	22.75	22.81	22.75		24	0									
18	QPSK	1	74	22.72	22.74	22.61		24	0									
18	QPSK	36	0	22.79	22.68	22.51												
18	QPSK	36	20	22.65	22.55	22.51		24	0									
18	QPSK	36	40	22.62	22.62	22.62		24	0									
18	QPSK	75	0	22.73	22.68	22.62												
18	16QAM	1	0	22.79	22.52	22.63		24	0									
18	16QAM	1	37	22.81	22.82	22.63		24	0									
18	16QAM	74	0	22.71	22.54	22.59												
18	16QAM	36	0	22.55	22.44	22.39		23	1									
18	16QAM	36	20	22.38	22.45	22.45		23	1									
18	16QAM	36	40	22.52	22.44	22.21		23	1									
18	16QAM	75	0	22.51	22.27	22.26												
18	64QAM	1	0	22.48	22.34	22.21												
18	64QAM	1	37	22.47	22.50	22.49		23	1									
18	64QAM	74	0	22.46	22.32	22.31												
18	64QAM	36	0	21.43	21.45	21.38												
18	64QAM	36	20	21.45	21.27	21.32		22	2									
18	64QAM	36	40	21.44	21.41	21.34		22	2									
18	64QAM	75	0	21.52	21.38	21.44		21	3									
18	256QAM	1	0	19.06	19.25	19.14												
18	256QAM	1	37	19.21	19.33	19.24		21	3									
18	256QAM	1	74	19.18	19.34	19.21		21	3									
18	256QAM	36	0	19.09	19.15	19.14												
18	256QAM	36	20	19.06	19.32	19.19		21	3									
18	256QAM	36	40	19.09	19.32	19.19		21	3									
18	256QAM	75	0	19.20	19.25	19.17												
Options									37800	38000	38000	Timeup Int (sec)					MFR (dB)	
Frequency (MHz)									29700	29700	29700							
10	QPSK	1	0	22.74	22.73	22.59												
10	QPSK	1	25	22.79	22.83	22.75		24	0									
10	QPSK	1	49	22.81	22.83	22.81		24	0									
10	QPSK	25	0	22.80	22.74	22.48												
10	QPSK	25	12	22.75	22.58	22.48		24	0									
10	QPSK	50	0	22.71	22.67	22.64												
10	16QAM	1	0	22.81	22.67	22.58		24	0									
10	16QAM	1	49	22.85	22.82	22.81		24	0									
10	16QAM	1	98	22.71	22.61	22.60												
10	16QAM	25	0	22.57	22.48	22.30		23	1									
10	16QAM	25	12	22.43	22.34	22.31		23	1									
10	16QAM	25	25	22.54	22.49	22.27		23	1									
10	16QAM	50	0	22.46	22.29	22.21												
10	16QAM	50	12	22.54	22.33	22.18		22	2									
10	16QAM	50	25	22.46	22.40	22.22		22	2									
10	64QAM	1	0	22.56	22.55	22.56		23	1									
10	64QAM	1	49	22.45	22.31	22.19		22	2									
10	64QAM	25	0	21.43	21.39	21.31												
10	64QAM	25	12	21.44	21.38	21.39		22	2									
10	64QAM	25	25	21.46	21.40	21.22		22	2									
10	64QAM	50	0	21.43	21.39	21.31												
10	64QAM	50	12	21.44	21.38	21.39		21	3									
10	64QAM	50	25	21.46	21.40	21.22		21	3									
10	256QAM	1	0	19.14	19.18	19.08												
10	256QAM	1	25	19.33	19.32	19.21		21	3									
10	256QAM	1	49	19.36	19.33	19.14		21	3									
10	256QAM	25	0	19.01	19.25	19.13												
10	256QAM	25	12	19.05	19.22	19.11		21	3									
10	256QAM	25	25	19.19	19.20	19.15		21	3									
10	256QAM	50	0	19.19	19.20	19.21												
Options									37875	38000	38225	Timeup Int (sec)					MFR (dB)	
Frequency (MHz)									29827.5	29827.5	29827.5							
5	QPSK	1	0	22.75	22.74	22.52												
5	QPSK	1	12	22.81	22.74	22.71		24	0									
5	QPSK	1	24	22.88	22.65	22.61												
5	QPSK	12	0	22.74	22.62	22.43												
5	QPSK	12	7	22.69	22.57	22.58		24	0									
5	QPSK	12	13	22.83	22.69	22.67												
5	QPSK	25	0	22.72	22.67	22.58												
5	16QAM	1	0	22.73	22.51	22.63		24	0									
5	16QAM	1	12	22.86	22.71	22.64		24	0									
5	16QAM	1	24	22.89	22.51	22.63												
5	16QAM	12	0	22.56	22.48	22.30		23	1									
5	16QAM	12	7	22.46	22.45	22.31												
5	16QAM	12	13	22.46	22.42	22.23		23	1									
5	16QAM	25	0	22.51	22.38	22.42												
5	16QAM	25	12	22.53	22.38	22.12		22	2									



Band 41_Ant 1											
BW (MHz)	Modulation	RB (KHz)	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Time-up (min)	MFR (dB)
Channel											
Frequency (MHz)											
30	QPSK	1	0	22.31	22.32	22.33	22.34	22.35	22.36	23.3	0
30	QPSK	1	49	22.25	22.27	22.29	22.34	22.36	22.21		
30	QPSK	1	99	22.23	22.23	22.23	22.23	22.23	22.23		
30	QPSK	50	0	22.30	22.30	22.30	22.30	22.30	22.30		
30	QPSK	50	24	22.28	22.27	22.27	22.27	22.27	22.27	23	0.3
30	QPSK	50	99	22.29	22.29	22.29	22.29	22.29	22.29		
30	QPSK	100	0	22.31	22.30	22.33	22.29	22.28	22.28		
30	HQAM	1	0	22.22	22.22	22.21	22.21	22.21	22.20	23	0.3
30	HQAM	1	49	22.26	22.26	22.26	22.26	22.26	22.26		
30	HQAM	1	99	22.27	22.28	22.28	22.24	22.24	22.24		
30	HQAM	50	0	21.84	21.71	21.58	21.63	21.42	21.42		
30	HQAM	50	24	21.72	21.71	21.81	21.68	21.45	21.45		
30	HQAM	50	99	21.67	21.78	21.72	21.70	21.35	21.35	22	1.3
30	HQAM	100	0	21.88	21.72	21.81	21.68	21.38	21.38		
30	HQAM	100	49	21.78	21.78	21.72	21.71	21.58	21.58		
30	HQAM	100	99	21.69	21.88	21.79	21.75	21.49	21.49	22	1.3
30	HQAM	50	0	20.87	20.86	20.92	20.94	20.90	20.90		
30	HQAM	50	24	20.83	20.88	20.84	20.84	20.82	20.82	21	2.3
30	HQAM	50	99	20.89	20.84	20.88	20.81	20.48	20.48		
30	HQAM	100	0	20.83	20.88	20.83	20.80	20.48	20.48		
30	HQAM	100	49	18.26	18.32	18.40	18.34	18.25	18.25		
30	HQAM	100	99	18.43	18.33	18.47	18.41	18.32	18.32	19	4.3
30	HQAM	50	0	18.35	18.35	18.31	18.33	18.33	18.33		
30	HQAM	50	24	18.27	18.31	18.33	18.27	18.29	18.29		
30	HQAM	50	99	18.40	18.39	18.39	18.39	18.32	18.32	19	4.3
30	HQAM	50	100	18.38	18.42	18.43	18.39	18.32	18.32		
30	HQAM	100	0	18.33	18.37	18.47	18.42	18.32	18.32		
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.25	22.32	22.31	22.23	22.25	22.25	23.3	0
15	QPSK	1	47	22.23	22.22	22.20	22.14	22.15	22.15		
15	QPSK	1	94	22.23	22.23	22.23	22.23	22.23	22.23		
15	QPSK	36	0	22.25	22.18	22.24	22.13	22.23	22.23	23	0.3
15	QPSK	36	20	22.19	22.12	22.21	22.07	22.11	22.11		
15	QPSK	36	39	22.18	22.21	22.24	22.13	22.14	22.14		
15	QPSK	75	0	22.18	22.24	22.31	22.22	22.21	22.21		
15	HQAM	1	0	22.11	22.22	22.25	22.07	22.05	22.05	23	0.3
15	HQAM	1	47	22.24	22.21	22.23	22.11	22.05	22.05		
15	HQAM	1	94	22.18	22.19	22.16	22.11	22.14	22.14		
15	HQAM	36	0	21.83	21.63	21.67	21.52	21.27	21.27	22	1.3
15	HQAM	36	20	21.89	21.75	21.68	21.67	21.45	21.45		
15	HQAM	36	39	21.57	21.73	21.68	21.65	21.51	21.51		
15	HQAM	75	0	21.57	21.58	21.55	21.59	21.38	21.38		
15	HQAM	75	24	21.63	21.77	21.70	21.68	21.45	21.45		
15	HQAM	75	37	21.54	21.78	21.66	21.72	21.47	21.47	22	1.3
15	HQAM	100	0	21.97	21.75	21.89	21.80	21.48	21.48		
15	HQAM	100	47	21.88	20.85	20.43	20.33	20.38	20.38		
15	HQAM	100	94	20.60	20.50	20.53	20.52	20.49	20.49	21	2.3
15	HQAM	50	0	20.58	20.49	20.58	20.49	20.35	20.35		
15	HQAM	50	20	20.59	20.55	20.55	20.55	20.55	20.55		
15	HQAM	50	39	18.14	18.18	18.31	18.19	18.22	18.22	19	4.3
15	HQAM	100	0	18.29	18.19	18.42	18.35	18.18	18.18		
15	HQAM	100	47	18.14	18.15	18.33	18.33	18.33	18.33		
15	HQAM	100	94	18.15	18.28	18.25	18.20	18.20	18.20		
15	HQAM	50	0	18.38	18.38	18.41	18.38	18.35	18.35		
15	HQAM	50	20	18.38	18.38	18.41	18.38	18.35	18.35		
15	HQAM	50	39	18.38	18.15	18.35	18.30	18.25	18.25		
15	HQAM	100	0	18.32	18.28	18.37	18.38	18.19	18.19		
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.28	22.28	22.24	22.23	22.22	22.22	23.3	0
10	QPSK	1	25	22.24	22.21	22.24	22.10	22.19	22.19		
10	QPSK	1	49	22.22	22.22	22.22	22.22	22.22	22.22		
10	QPSK	25	0	22.24	22.27	22.32	22.12	22.12	22.12		
10	QPSK	25	12	22.13	22.18	22.19	22.08	22.11	22.11	23	0.3
10	QPSK	25	24	22.12	22.12	22.12	22.12	22.12	22.12		
10	QPSK	50	0	22.17	22.28	22.32	22.27	22.17	22.17		
10	HQAM	1	0	22.08	22.26	22.24	22.11	22.13	22.13	23	0.3
10	HQAM	1	49	22.17	22.28	22.16	22.21	22.13	22.13		
10	HQAM	25	0	21.84	21.66	21.63	21.62	21.28	21.28	22	1.3
10	HQAM	25	12	21.69	21.78	21.48	21.58	21.29	21.29		
10	HQAM	25	24	21.84	21.63	21.63	21.84	21.32	21.32		
10	HQAM	50	0	21.93	21.67	21.69	21.80	21.34	21.34		
10	HQAM	50	49	21.68	21.64	21.81	21.69	21.54	21.54		
10	HQAM	100	0	21.63	21.83	21.76	21.63	21.45	21.45	22	1.3
10	HQAM	100	49	21.78	21.77	21.77	21.84	21.48	21.48		
10	HQAM	25	0	20.86	20.82	20.44	20.48	20.44	20.44	21	2.3
10	HQAM	25	12	20.62	20.60	20.46	20.56	20.44	20.44		
10	HQAM	50	0	20.57	20.54	20.57	20.60	20.43	20.43		
10	HQAM	50	49	20.58	20.58	20.52	20.51	20.43	20.43		
10	HQAM	100	0	18.20	18.26	18.29	18.19	18.19	18.19	19	4.3
10	HQAM	100	49	18.28	18.32	18.41	18.38	18.29	18.29		
10	HQAM	25	0	18.32	18.37	18.31	18.33	18.24	18.24		
10	HQAM	25	12	18.17	18.18	18.19	18.25	18.28	18.28		
10	HQAM	25	24	18.34	18.31	18.40	18.33	18.24	18.24		
10	HQAM	50	0	18.32	18.15	18.30	18.20	18.24	18.24		
10	HQAM	50	49	18.20	18.32	18.41	18.30	18.25	18.25		
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.24	22.21	22.26	22.21	22.23	22.23	23.3	0
5	QPSK	1	12	22.15	22.16	22.25	22.02	22.07	22.07		
5	QPSK	1	24	22.17	22.13	22.22	22.12	22.13	22.13		
5	QPSK	12	0	22.21	22.13	22.26	22.20	22.20	22.20		
5	QPSK	12	7	22.24	22.11	22.13	22.14	22.16	22.16	23	0.3
5	QPSK	12	14	22.19	22.11	22.21	22.18	22.14	22.14		
5	QPSK	25	0	22.17	22.29	22.26	22.26	22.24	22.24		
5	HQAM	1	0	22.16	22.10	22.18	22.15	22.11	22.11	23	0.3
5	HQAM	1	12	22.15	22.11	22.21	22.18	22.14	22.14		
5	HQAM	1	24	22.12	22.29	22.16	22.20	22.23	22.23		
5	HQAM	12	0	21.58	21.68	21.43	21.52	21.28	21.28	22	1.3
5	HQAM	12	7	21.68	21.68	21.48	21.58	21.28	21.28		
5	HQAM	12	14	21.63	21.70	21.87	21.58	21.25	21.25		
5	HQAM	25	0	21.80	21.68	21.48	21.59	21.28	21.28		
5	HQAM	25	7	21.70	21.63	21.59	21.68	21.52	21.52		
5	HQAM	50	0	21.57	21.73	21.77	21.74	21.42	21.42	22	1.3
5	HQAM	50	12	21.54	21.76	21.72	21.86	21.38	21.38		
5	HQAM	50	24	20.86	20.85	20.42	20.42	20.50	20.50	21	2.3
5	HQAM	100	0	20.58	20.54	20.55	20.54	20.32	20.32		
5	HQAM	100	12	20.58	20.58	20.52	20.54	20.31	20.31		



Band 42_Ant 3												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Nbr Ch / Freq	Power High Ch / Freq	Turn-up Int (dB)	MPR (dB)				
		Channel		42160	42500	42950						
		Frequency (MHz)		3400	3500	3600						
20	QPSK	1	0	20.73	20.74	20.58						
20	QPSK	1	49	20.67	20.73	20.67	22	0				
20	QPSK	1	98	20.52	20.52	20.46						
20	QPSK	50	0	19.70	19.78	19.77						
20	QPSK	50	24	19.67	19.72	19.69	21	1				
20	QPSK	50	59	19.66	19.69	19.69						
20	QPSK	100	0	19.66	19.76	19.76						
20	16QAM	1	0	19.75	19.71	19.87						
20	16QAM	1	49	19.70	19.72	19.81	21	1				
20	16QAM	1	99	19.59	19.59	19.61						
20	16QAM	50	0	18.70	18.72	18.73						
20	16QAM	50	24	18.71	18.72	18.71	20	2				
20	16QAM	50	50	18.71	18.70	18.73						
20	16QAM	100	0	18.62	18.77	18.77						
20	16QAM	100	24	18.67	18.72	18.71	20	2				
20	64QAM	1	49	18.82	18.54	18.66	20	2				
20	64QAM	1	99	18.51	18.85	18.82						
20	64QAM	50	0	17.74	17.71	17.97						
20	64QAM	50	24	17.71	17.79	17.79	19	3				
20	64QAM	100	0	17.83	17.78	17.74						
20	256QAM	1	0	15.58	15.46	15.41						
20	256QAM	1	49	15.40	15.56	15.50	17	5				
20	256QAM	1	99	15.41	15.47	15.48						
20	256QAM	50	0	15.57	15.48	15.58						
20	256QAM	50	24	15.52	15.59	15.61	17	5				
20	256QAM	50	50	15.54	15.54	15.54						
20	256QAM	100	0	15.45	15.59	15.44						
		Channel		42160	42500	42950						
		Frequency (MHz)		3402.5	3500	3600	Turn-up Int (dB)	MPR (dB)				
15	QPSK	1	0	20.61	20.60	20.60						
15	QPSK	1	37	20.52	20.66	20.53	22	0				
15	QPSK	1	74	20.42	20.46	20.44						
15	QPSK	36	0	19.58	19.61	19.58						
15	QPSK	36	20	19.52	19.68	19.63	21	1				
15	QPSK	36	59	19.67	19.63	19.67						
15	QPSK	75	0	19.52	19.75	19.74						
15	16QAM	1	0	19.71	19.62	19.72						
15	16QAM	1	37	19.67	19.67	19.67	21	1				
15	16QAM	1	74	19.46	19.52	19.49						
15	16QAM	36	0	18.60	18.60	18.66	20	2				
15	16QAM	36	20	18.63	18.67	18.68						
15	16QAM	36	39	18.58	18.63	18.67						
15	16QAM	75	0	18.54	18.73	18.75						
15	64QAM	1	0	18.58	18.58	18.58						
15	64QAM	1	37	18.51	18.43	18.59	20	2				
15	64QAM	1	74	18.47	18.44	18.44						
15	64QAM	36	0	17.57	17.55	17.59						
15	64QAM	36	20	17.66	17.78	17.77	19	3				
15	64QAM	36	39	17.70	17.68	17.63						
15	64QAM	75	0	17.49	17.61	17.64						
15	256QAM	1	0	15.50	15.55	15.41						
15	256QAM	1	37	15.32	15.46	15.36	17	5				
15	256QAM	1	74	15.48	15.43	15.48						
15	256QAM	36	0	15.48	15.46	15.50						
15	256QAM	36	20	15.47	15.50	15.48	17	5				
15	256QAM	36	39	15.47	15.50	15.42						
15	256QAM	75	0	15.42	15.48	15.39						
		Channel		42160	42500	42950						
		Frequency (MHz)		3402.5	3500	3600	Turn-up Int (dB)	MPR (dB)				
10	QPSK	1	0	20.68	20.63	20.68						
10	QPSK	1	25	20.55	20.61	20.54	22	0				
10	QPSK	1	50	20.51	20.64	20.56						
10	QPSK	25	0	19.60	19.61	19.58						
10	QPSK	25	12	19.54	19.75	19.65	21	1				
10	QPSK	25	37	19.58	19.66	19.61						
10	QPSK	50	0	19.62	19.69	19.67						
10	16QAM	1	0	19.67	19.67	19.65						
10	16QAM	1	25	19.63	19.66	19.67	21	1				
10	16QAM	1	49	19.48	19.49	19.52						
10	16QAM	25	0	18.55	18.71	18.64	20	2				
10	16QAM	25	12	18.66	18.69	18.73						
10	16QAM	25	24	18.58	18.67	18.60						
10	16QAM	50	0	18.60	18.69	18.63						
10	64QAM	1	0	18.61	18.52	18.62						
10	64QAM	1	25	18.59	18.45	18.63	20	2				
10	64QAM	1	49	18.26	18.41	18.50						
10	64QAM	25	0	17.55	17.63	17.70						
10	64QAM	25	12	17.70	17.68	17.67	19	3				
10	64QAM	25	25	17.66	17.67	17.66						
10	64QAM	50	0	17.53	17.68	17.71						
10	256QAM	1	0	15.52	15.52	15.40						
10	256QAM	1	25	15.34	15.47	15.26	17	5				
10	256QAM	1	49	15.49	15.45	15.47						
10	256QAM	25	0	15.54	15.50	15.57						
10	256QAM	25	12	15.49	15.53	15.48	17	5				
10	256QAM	25	25	15.43	15.53	15.48						
10	256QAM	50	0	15.44	15.45	15.38						
		Channel		42115	42500	42950						
		Frequency (MHz)		3402.5	3500	3600	Turn-up Int (dB)	MPR (dB)				
5	QPSK	1	0	20.63	20.72	20.58						
5	QPSK	1	12	20.61	20.64	20.63	22	0				
5	QPSK	1	24	20.40	20.43	20.56						
5	QPSK	12	0	19.64	19.71	19.63						
5	QPSK	12	7	19.65	19.67	19.71	21	1				
5	QPSK	12	13	19.57	19.59	19.71						
5	QPSK	25	0	19.55	19.66	19.73						
5	16QAM	1	0	19.62	19.68	19.72						
5	16QAM	1	12	19.66	19.65	19.62	21	1				
5	16QAM	1	24	19.55	19.52	19.63						
5	16QAM	12	0	18.60	18.68	18.66	20	2				
5	16QAM	12	7	18.63	18.77	18.72						
5	16QAM	12	13	18.60	18.66	18.60						
5	16QAM	25	0	18.50	18.68	18.70						
5	64QAM	1	0	18.62	18.57	18.59						
5	64QAM	1	12	18.56	18.51	18.52	20	2				
5	64QAM	1	24	18.49	18.48	18.46						
5	64QAM	12	0	17.68	17.68	17.62						
5	64QAM	12	7	17.58	17.75	17.74	19	3				
5	64QAM	12	13	17.62	17.70	17.61						
5	64QAM	25	0	17.52	17.74	17.61						
5	256QAM	1	0	15.45	15.47	15.37						
5	256QAM	1	12	15.30	15.49	15.37	17	5				
5	256QAM	1	24	15.44	15.57	15.33						
5	256QAM	12	0	15.50	15.55	15.49						
5	256QAM	12	7	15.50	15.59	15.58	17	5				
5	256QAM	12	13	15.44	15.52	15.50						
5	256QAM	25	0	15.37	15.46	15.39						

Band 42_Ant 6												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Nbr Ch / Freq	Power High Ch / Freq	Turn-up Int (dB)	MPR (dB)				
		Channel		42160	42500	42950						
		Frequency (MHz)		3400	3500	3600						
20	QPSK	1	0	22.50	22.55	22.51						
20	QPSK	1	49	22.43	22.44	22.48	23.2	0				
20	QPSK	1	98	22.51	22.40	22.44						
20	QPSK	50	0	22.44	22.39	22.51						
20	QPSK	50	24	22.18	22.42	22.43	23.2	0				
20	QPSK	50	59	22.41	22.41	22.41						
20	QPSK	100	0	22.28	22.41	22.38						
20	16QAM	1	0	22.31	22.50	22.52						
20	16QAM	1	49	22.32	22.51	22.52	23.2	0				
20	16QAM	1	99	21.95	22.49	22.23						
20	16QAM	50	0	22.31	22.52	22.52						
20	16QAM	50	24	22.32	22.52	22.52	23.2	0				
20	16QAM	50	50	22.47	22.46	22.37						
20	16QAM	100	0	22.46	22.47	22.22						
20												



n2_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1880	1900			
20	PB2 BPSK	1	1	22.74	22.68	22.71			
20	PB2 BPSK	1	53	22.67	22.60	22.65	24.0	0.0	
20	PB2 BPSK	1	104	22.60	22.68	22.72			
20	PB2 BPSK	50	0	22.62	22.57	22.61	24.0	0.0	
20	PB2 BPSK	50	28	22.65	22.59	22.65	24.0	0.0	
20	PB2 BPSK	50	56	22.66	22.60	22.61			
20	PB2 BPSK	100	0	22.67	22.59	22.61	24.0	0.0	
20	QPSK	1	1	22.76	22.61	22.71			
20	QPSK	1	53	22.72	22.70	22.71	24.0	0.0	
20	QPSK	1	104	22.70	22.72	22.74			
20	QPSK	50	0	22.69	22.62	22.65	24.0	0.0	
20	QPSK	50	28	22.68	22.71	22.69	24.0	0.0	
20	QPSK	50	56	22.81	22.58	22.59	24.0	0.0	
20	QPSK	100	0	22.67	22.70	22.65	24.0	0.0	
20	BQAM	1	1	22.74	22.68	22.74	24.0	0.0	
20	BQAM	1	1	21.88	21.80	21.85	22.0	2.0	
20	25GQAM	1	1	20.08	19.56	20.00	21.0	3.0	
Channel									
Frequency (MHz)				1870.5	1890	1902.5	(dBm)	(dB)	
15	QPSK	1	1	22.73	22.70	22.73	24.0	0.0	
Channel									
Frequency (MHz)				1855	1890	1905	(dBm)	(dB)	
10	QPSK	1	1	22.69	22.58	22.67	24.0	0.0	
Channel									
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	22.65	22.60	22.62	24.0	0.0	

n2_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1880	1900			
20	PB2 BPSK	1	1	20.50	20.58	20.51			
20	PB2 BPSK	1	53	20.52	20.54	20.46	22.0	0.0	
20	PB2 BPSK	1	104	20.38	20.52	20.51			
20	PB2 BPSK	50	0	20.45	20.52	20.43	22.0	0.0	
20	PB2 BPSK	50	28	20.49	20.47	20.45	22.0	0.0	
20	PB2 BPSK	50	56	20.20	20.47	20.45			
20	PB2 BPSK	100	0	20.42	20.50	20.44	22.0	0.0	
20	QPSK	1	1	20.23	20.60	20.51			
20	QPSK	1	53	20.43	20.52	20.41	22.0	0.0	
20	QPSK	1	104	20.48	20.52	20.41			
20	QPSK	50	0	20.45	20.54	20.53	22.0	0.0	
20	QPSK	50	28	20.51	20.58	20.54	22.0	0.0	
20	QPSK	50	56	20.51	20.49	20.48	22.0	0.0	
20	QPSK	100	0	20.43	20.57	20.52	22.0	0.0	
20	BQAM	1	1	20.45	20.49	20.41	22.0	0.0	
20	BQAM	1	1	20.45	20.45	20.52	21.5	0.5	
20	25GQAM	1	1	18.52	18.44	18.30	19.5	2.5	
Channel									
Frequency (MHz)				1870.5	1890	1902.5	(dBm)	(dB)	
15	QPSK	1	1	20.47	20.55	20.53	22.0	0.0	
Channel									
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	20.45	20.40	20.54	22.0	0.0	
Channel									
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	20.51	20.48	20.43	22.0	0.0	

n2_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1880	1900			
20	PB2 BPSK	1	1	21.18	21.24	21.11			
20	PB2 BPSK	1	53	21.13	21.19	21.09	23.0	0.0	
20	PB2 BPSK	1	104	21.04	21.24	21.21			
20	PB2 BPSK	50	0	21.21	21.22	21.12	23.0	0.0	
20	PB2 BPSK	50	28	21.18	21.20	21.19	23.0	0.0	
20	PB2 BPSK	50	56	21.10	21.28	21.21			
20	PB2 BPSK	100	0	21.22	21.27	21.13	23.0	0.0	
20	QPSK	1	1	21.25	21.29	21.25			
20	QPSK	1	53	21.24	21.19	21.16	23.0	0.0	
20	QPSK	1	104	21.13	21.24	21.18			
20	QPSK	50	0	21.20	21.24	21.12	23.0	0.0	
20	QPSK	50	28	21.15	21.08	21.21	23.0	0.0	
20	QPSK	50	56	21.22	21.15	21.18	23.0	0.0	
20	QPSK	100	0	21.17	21.24	21.12	23.0	0.0	
20	BQAM	1	1	21.21	21.22	21.07	23.0	0.0	
20	BQAM	1	1	20.81	20.58	20.43	21.5	1.5	
20	25GQAM	1	1	18.58	18.53	18.40	19.5	0.5	
Channel									
Frequency (MHz)				1870.5	1890	1902.5	(dBm)	(dB)	
15	QPSK	1	1	21.11	21.15	21.20	23.0	0.0	
Channel									
Frequency (MHz)				1855	1890	1905	(dBm)	(dB)	
10	QPSK	1	1	21.00	21.15	21.13	23.0	0.0	
Channel									
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	21.24	21.18	21.17	23.0	0.0	



n5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PLC BPSK	1	1	22.80	22.82	22.77			
20	PLC BPSK	1	53	22.87	22.84	22.88	24.0	0.0	
20	PLC BPSK	1	104	22.96	22.95	22.97			
20	PLC BPSK	50	0	22.71	22.71	22.83	23.5	0.5	
20	PLC BPSK	50	28	22.68	22.66	22.68	24.0	0.0	
20	PLC BPSK	50	56	22.50	22.50	22.54	23.5	0.5	
20	PLC BPSK	100	0	22.72	22.73	22.87			
20	QPSK	1	1	22.90	22.84	22.77			
20	QPSK	1	53	22.72	22.68	22.84	24.0	0.0	
20	QPSK	1	104	22.58	22.58	22.55			
20	QPSK	50	0	22.70	22.74	22.70	23.0	1.0	
20	QPSK	50	28	22.75	22.70	22.75	24.0	0.0	
20	QPSK	50	56	22.80	22.58	22.54	23.0	1.0	
20	QPSK	100	0	22.81	22.57	22.84			
20	16QAM	1	1	22.51	22.50	22.44	23.0	1.0	
20	16QAM	1	1	21.42	21.42	21.36	21.5	2.5	
20	256QAM	1	1	19.33	19.33	19.27	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.70	22.71	22.83	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.78	22.67	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.72	22.73	22.87	24.0	0.0	

n5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PLC BPSK	1	1	22.93	22.93	22.96			
20	PLC BPSK	1	53	22.81	22.49	22.90	24.0	0.0	
20	PLC BPSK	1	104	22.90	22.46	22.41			
20	PLC BPSK	50	0	22.50	22.56	22.54	23.5	0.5	
20	PLC BPSK	50	28	22.50	22.54	22.50	24.0	0.0	
20	PLC BPSK	50	56	22.52	22.47	22.41	23.5	0.5	
20	PLC BPSK	100	0	22.53	22.49	22.49			
20	QPSK	1	1	22.55	22.83	22.51			
20	QPSK	1	53	22.50	22.56	22.50	24.0	0.0	
20	QPSK	1	104	22.58	22.52	22.50			
20	QPSK	50	0	22.50	22.83	22.53	23.0	1.0	
20	QPSK	50	28	22.57	22.80	22.50	24.0	0.0	
20	QPSK	50	56	22.47	22.44	22.43	23.0	1.0	
20	QPSK	100	0	22.47	22.46	22.43			
20	16QAM	1	1	20.50	20.50	20.50	23.0	1.0	
20	16QAM	1	1	20.68	20.67	20.84	21.5	2.5	
20	256QAM	1	1	18.05	18.97	18.93	19.5	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.05	22.47	22.46	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.04	22.40	22.44	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.01	22.43	22.49	24.0	0.0	

n7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PLC BPSK	1	1	22.71	22.77	22.72			
40	PLC BPSK	1	108	22.81	22.75	22.75	23.5	0.0	
40	PLC BPSK	1	214	22.72	22.76	22.70			
40	PLC BPSK	108	0	22.62	22.76	22.75	23.5	0.0	
40	PLC BPSK	108	54	22.69	22.78	22.68	23.5	0.0	
40	PLC BPSK	108	108	22.60	22.68	22.70	23.5	0.0	
40	PLC BPSK	216	0	22.67	22.77	22.65			
40	QPSK	1	1	22.70	22.59	22.55			
40	QPSK	1	108	22.74	22.77	22.78	23.5	0.0	
40	QPSK	1	214	22.83	22.79	22.70			
40	QPSK	108	0	22.65	22.75	22.70	23.5	0.0	
40	QPSK	108	54	22.60	22.76	22.70	23.5	0.0	
40	QPSK	108	108	22.65	22.77	22.65	23.5	0.0	
40	QPSK	216	0	22.66	22.75	22.71			
40	16QAM	1	1	22.74	22.67	22.70	23.0	0.0	
40	16QAM	1	1	21.88	21.74	21.81	22.0	1.5	
40	256QAM	1	1	19.84	19.98	20.00	21.0	2.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.73	22.74	22.70	23.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.81	22.70	22.69	23.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.69	22.68	22.60	23.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.72	22.70	22.73	23.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.72	22.70	22.68	23.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.60	22.78	22.71	23.5	0.0	



n7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				21.82	21.83	21.83			
40	PI2 BPSK	1	1	21.82	21.83	21.83			
40	PI2 BPSK	1	108	21.85	21.89	21.49	22.5	0.0	
40	PI2 BPSK	1	214	21.82	21.82	21.87			
40	PI2 BPSK	108	0	21.86	21.87	21.87	22.0	0.0	
40	PI2 BPSK	108	54	21.88	21.88	21.59	22.5	0.0	
40	PI2 BPSK	108	108	21.82	21.82	21.86	22.5	0.0	
40	PI2 BPSK	216	0	21.84	21.88	21.47			
40	QPSK	1	1	21.82	21.70	21.52			
40	QPSK	1	108	21.82	21.87	21.87	22.5	0.0	
40	QPSK	1	214	21.86	21.81	21.83			
40	QPSK	108	0	21.88	21.81	21.59	22.5	0.0	
40	QPSK	108	54	21.85	21.88	21.81	22.5	0.0	
40	QPSK	108	108	21.83	21.86	21.83	22.0	0.0	
40	QPSK	216	0	21.83	21.85	21.58			
40	BQAM	1	1	21.82	21.59	21.54	22.0	0.0	
40	BQAM	1	1	20.60	20.70	20.87	21.5	1.0	
40	25QAM	1	1	19.87	19.16	19.13	19.5	3.0	
Channel									
Frequency (MHz)				25.15	25.35	25.55			
30	QPSK	1	1	21.80	21.83	21.80	22.5	0.0	
Channel									
Frequency (MHz)				25.15	25.35	25.57.5			
25	QPSK	1	1	21.86	21.88	21.81	22.5	0.0	
Channel									
Frequency (MHz)				25.10	25.35	25.60			
30	QPSK	1	1	21.82	21.88	21.83	22.5	0.0	
Channel									
Frequency (MHz)				25.07.5	25.35	25.62.5			
15	QPSK	1	1	21.84	21.85	21.85	22.5	0.0	
Channel									
Frequency (MHz)				25.05	25.35	25.65			
18	QPSK	1	1	21.80	21.84	21.88	22.5	0.0	
Channel									
Frequency (MHz)				25.02.5	25.35	25.67.5			
5	QPSK	1	1	21.59	21.58	21.61	22.5	0.0	

n7_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				19.40	19.45	19.50			
40	PI2 BPSK	1	1	19.46	19.57	19.38			
40	PI2 BPSK	1	108	19.43	19.58	19.40	21.0	0.0	
40	PI2 BPSK	1	214	19.42	19.45	19.42			
40	PI2 BPSK	108	0	19.54	19.59	19.51	21.0	0.0	
40	PI2 BPSK	108	54	19.49	19.45	19.40	21.0	0.0	
40	PI2 BPSK	108	108	19.54	19.45	19.47	21.0	0.0	
40	PI2 BPSK	216	0	19.47	19.44	19.41			
40	QPSK	1	1	19.55	19.59	19.52			
40	QPSK	1	108	19.41	19.44	19.45	21.0	0.0	
40	QPSK	1	214	19.53	19.48	19.38			
40	QPSK	108	0	19.51	19.54	19.42	21.0	0.0	
40	QPSK	108	54	19.53	19.57	19.55	21.0	0.0	
40	QPSK	108	108	19.41	19.52	19.47	21.0	0.0	
40	QPSK	216	0	19.45	19.51	19.43			
40	BQAM	1	1	19.46	19.45	19.45	21.0	0.0	
40	BQAM	1	1	19.40	19.50	19.51	21.0	0.0	
40	25QAM	1	1	18.58	18.69	18.64	19.5	1.5	
Channel									
Frequency (MHz)				25.15	25.35	25.55			
30	QPSK	1	1	19.54	19.48	19.45	21.0	0.0	
Channel									
Frequency (MHz)				25.12.5	25.35	25.57.5			
25	QPSK	1	1	19.44	19.48	19.41	21.0	0.0	
Channel									
Frequency (MHz)				25.10	25.35	25.60			
20	QPSK	1	1	19.43	19.50	19.42	21.0	0.0	
Channel									
Frequency (MHz)				25.07.5	25.35	25.62.5			
15	QPSK	1	1	19.49	19.44	19.39	21.0	0.0	
Channel									
Frequency (MHz)				25.05	25.35	25.65			
10	QPSK	1	1	19.50	19.53	19.50	21.0	0.0	
Channel									
Frequency (MHz)				25.02.5	25.35	25.67.5			
5	QPSK	1	1	19.54	19.58	19.47	21.0	0.0	

n66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				17.83	17.84	17.84			
40	PI2 BPSK	1	1	21.68	21.77	21.73			
40	PI2 BPSK	1	108	21.74	21.84	21.72	23.0	0.0	
40	PI2 BPSK	1	214	21.73	21.86	21.72			
40	PI2 BPSK	108	0	21.67	21.86	21.68	23.0	0.0	
40	PI2 BPSK	108	54	21.74	21.76	21.70	23.0	0.0	
40	PI2 BPSK	108	108	21.72	21.81	21.84	23.0	0.0	
40	PI2 BPSK	216	0	21.79	21.85	21.60			
40	QPSK	1	1	21.69	21.88	21.75			
40	QPSK	1	108	21.67	21.78	21.81	23.0	0.0	
40	QPSK	1	214	21.72	21.85	21.72			
40	QPSK	108	0	21.76	21.82	21.65	23.0	0.0	
40	QPSK	108	54	21.73	21.85	21.75	23.0	0.0	
40	QPSK	108	108	21.68	21.79	21.81	23.0	0.0	
40	QPSK	216	0	21.78	21.83	21.70			
40	BQAM	1	1	21.68	21.75	21.72	23.0	0.0	
40	BQAM	1	1	21.76	21.86	21.80	21.0	2.0	
40	25QAM	1	1	20.34	20.28	20.08	21.0	2.0	
Channel									
Frequency (MHz)				17.85	17.85	17.85			
30	QPSK	1	1	21.75	21.84	21.84	23.0	0.0	
Channel									
Frequency (MHz)				17.83	17.85	17.85			
20	QPSK	1	1	21.69	21.78	21.81	23.0	0.0	
Channel									
Frequency (MHz)				17.77.5	17.85	17.77.5			
15	QPSK	1	1	21.66	21.86	21.73	23.0	0.0	
Channel									
Frequency (MHz)				17.75	17.85	17.75			
10	QPSK	1	1	21.72	21.83	21.69	23.0	0.0	
Channel									
Frequency (MHz)				17.72.5	17.85	17.77.5			
5	QPSK	1	1	21.60	21.77	21.70	23.0	0.0	



n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1745	1745	1745			
40	PLO-BPSK	1	1	20.77	20.79	20.74			
40	PLO-BPSK	1	108	20.70	20.81	20.75	22.0	0.0	
40	PLO-BPSK	1	214	20.77	20.73	20.70			
40	PLO-BPSK	108	4	20.68	20.75	20.69	22.0	0.0	
40	PLO-BPSK	108	54	20.69	20.75	20.71	22.0	0.0	
40	PLO-BPSK	108	108	20.68	20.84	20.75			
40	PLO-BPSK	216	0	20.68	20.73	20.73	22.0	0.0	
40	QPSK	1	1	20.73	20.86	20.59			
40	QPSK	1	108	20.74	20.76	20.75	22.0	0.0	
40	QPSK	1	214	20.68	20.73	20.77			
40	QPSK	108	0	20.74	20.82	20.72	22.0	0.0	
40	QPSK	108	54	20.73	20.82	20.78	22.0	0.0	
40	QPSK	108	108	20.64	20.80	20.77	22.0	0.0	
40	QPSK	216	0	20.63	20.79	20.73			
40	16QAM	1	1	20.71	20.84	20.73	22.0	0.0	
40	64QAM	1	1	20.70	20.74	20.86	21.5	0.5	
40	256QAM	1	1	19.21	19.24	19.00	19.5	2.5	
Channel									
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	20.65	20.76	20.68	22.0	0.0	
Channel									
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	20.67	20.86	20.72	22.0	0.0	
Channel									
Frequency (MHz)				1715.5	1745	1772.5			
15	QPSK	1	1	20.63	20.86	20.68	22.0	0.0	
Channel									
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	20.77	20.78	20.75	22.0	0.0	
Channel									
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	20.72	20.62	20.78	22.0	0.0	

n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1745	1745	1745			
40	PLO-BPSK	1	1	22.41	22.45	22.28			
40	PLO-BPSK	1	108	22.47	22.49	22.32	24.0	0.0	
40	PLO-BPSK	1	214	22.42	22.43	22.27			
40	PLO-BPSK	108	0	22.07	22.08	21.89	23.5	0.5	
40	PLO-BPSK	108	54	22.47	22.50	22.24	24.0	0.0	
40	PLO-BPSK	108	108	22.03	22.05	21.87	23.5	0.5	
40	PLO-BPSK	216	0	22.08	22.10	21.90			
40	QPSK	1	1	22.40	22.53	22.27			
40	QPSK	1	108	22.43	22.48	22.27	24.0	0.0	
40	QPSK	1	214	22.48	22.50	22.30			
40	QPSK	108	0	21.58	21.59	21.41	23.0	1.0	
40	QPSK	108	54	21.65	22.07	21.50	24.0	0.0	
40	QPSK	108	108	21.43	21.48	21.27	23.0	1.0	
40	QPSK	216	0	21.55	21.59	21.38			
40	16QAM	1	1	21.35	21.41	21.21	23.0	1.0	
40	64QAM	1	1	19.35	20.01	19.81	21.5	2.5	
40	256QAM	1	1	18.34	18.35	18.15	19.5	4.5	
Channel									
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.35	22.38	22.27	24.0	0.0	
Channel									
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.34	22.49	22.31	24.0	1.0	
Channel									
Frequency (MHz)				1715.5	1745	1772.5			
15	QPSK	1	1	22.30	22.41	22.24	24.0	1.0	
Channel									
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.44	22.3	22.24	24.0	1.0	
Channel									
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.40	22.47	22.20	24.0	0.0	



n38_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				2142	2146	2150	
40	P12 BPSK	1	1	21.52	21.56	21.60	22.5
40	P12 BPSK	1	53	21.46	21.48	21.42	0.0
40	P12 BPSK	1	104	21.43	21.36	21.48	0.0
40	P12 BPSK	50	0	21.69	21.58	21.45	22.5
40	P12 BPSK	50	28	21.55	21.58	21.43	0.0
40	P12 BPSK	50	56	21.43	21.34	21.34	0.0
40	P12 BPSK	100	0	21.54	21.50	21.48	22.5
40	QPSK	1	1	21.50	21.52	21.55	0.0
40	QPSK	1	53	21.44	21.50	21.52	22.5
40	QPSK	1	104	21.43	21.48	21.49	0.0
40	QPSK	50	0	21.50	21.57	21.46	0.0
40	QPSK	50	28	21.47	21.59	21.55	22.5
40	QPSK	50	56	21.49	21.52	21.51	0.0
40	QPSK	100	0	21.48	21.55	21.49	22.5
40	16QAM	1	1	21.52	21.50	21.44	22.5
40	16QAM	1	1	21.52	21.51	21.47	22.5
40	256QAM	1	1	20.32	20.38	20.18	1.5
Channel							
Frequency (MHz)				2150	2595	2600	
30	QPSK	1	1	21.48	21.54	21.53	22.5
Channel							
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	21.51	21.54	21.46	22.5
Channel							
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	1	21.54	21.50	21.40	22.5
Channel							
Frequency (MHz)				2610	2615	2615	
10	QPSK	1	1	21.52	21.59	21.54	22.5

n38_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				2149	2146	2140	
40	P12 BPSK	1	1	21.53	21.73	21.52	22.5
40	P12 BPSK	1	53	21.64	21.64	21.52	0.0
40	P12 BPSK	1	104	21.62	21.72	21.57	0.0
40	P12 BPSK	50	0	21.60	21.64	21.64	22.5
40	P12 BPSK	50	28	21.50	21.58	21.59	0.0
40	P12 BPSK	50	56	21.38	21.66	21.62	22.5
40	P12 BPSK	100	0	21.66	21.61	21.60	0.0
40	QPSK	1	1	21.50	21.75	21.59	0.0
40	QPSK	1	53	21.49	21.70	21.61	22.5
40	QPSK	1	104	21.68	21.59	21.61	0.0
40	QPSK	50	0	21.54	21.71	21.61	0.0
40	QPSK	50	28	21.59	21.74	21.54	22.5
40	QPSK	50	56	21.59	21.65	21.54	0.0
40	QPSK	100	0	21.59	21.69	21.59	22.5
40	16QAM	1	1	20.69	21.70	21.49	22.5
40	16QAM	1	1	20.67	20.79	20.73	1.0
40	256QAM	1	1	19.11	19.24	19.22	3.0
Channel							
Frequency (MHz)				2590	2590	2600	
30	QPSK	1	1	21.64	21.56	21.55	22.5
Channel							
Frequency (MHz)				2585	2595	2610	
20	QPSK	1	1	21.57	21.69	21.52	22.5
Channel							
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	1	21.67	21.61	21.67	22.5
Channel							
Frequency (MHz)				2610	2610	2610	
10	QPSK	1	1	21.59	21.55	21.49	22.5



n38_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel				51800	51900	52000	
Frequency (MHz)							
40	PIQ BPSK	1	1	20.11	20.28	20.17	
40	PIQ BPSK	1	1	20.18	20.16	20.08	22.0
40	PIQ BPSK	1	104	20.28	20.13	20.17	
40	PIQ BPSK	50	0	20.24	20.21	20.11	22.0
40	PIQ BPSK	50	28	20.06	20.10	20.12	22.0
40	PIQ BPSK	50	58	20.17	20.20	20.14	22.0
40	PIQ BPSK	100	0	20.16	20.31	20.12	22.0
40	QPSK	1	1	20.24	20.03	20.20	
40	QPSK	1	51	20.14	20.29	20.20	22.0
40	QPSK	1	104	20.24	20.26	20.21	
40	QPSK	50	0	20.19	20.28	20.19	
40	QPSK	50	28	20.22	20.25	20.21	
40	QPSK	50	58	20.19	20.18	20.15	22.0
40	QPSK	100	0	20.18	20.27	20.08	22.0
40	8QAM	1	1	20.18	20.26	20.13	22.0
40	8QAM	1	1	20.14	20.21	20.22	21.5
40	256QAM	1	1	18.22	18.28	18.28	19.5
Channel				51900	51900	52000	
Frequency (MHz)							
30	QPSK	1	1	20.16	20.23	20.15	22.0
Channel				51900	51900	52000	
Frequency (MHz)							
20	QPSK	1	1	20.15	20.26	20.19	22.0
Channel				51900	51900	52000	
Frequency (MHz)							
15	QPSK	1	1	20.13	20.19	20.22	22.0
Channel				51900	51900	52000	
Frequency (MHz)							
10	QPSK	1	1	20.22	20.30	20.10	22.0

FCC_n41_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel				95900	95900	96000	
Frequency (MHz)							
100	PIQ BPSK	1	1	21.63	21.66	21.64	
100	PIQ BPSK	1	137	21.56	21.73	21.59	22.5
100	PIQ BPSK	1	271	21.60	21.66	21.60	
100	PIQ BPSK	135	0	21.60	21.71	21.60	22.5
100	PIQ BPSK	135	69	21.56	21.70	21.64	22.5
100	PIQ BPSK	135	138	21.63	21.74	21.61	22.5
100	PIQ BPSK	270	0	21.62	21.65	21.68	
100	QPSK	1	1	21.70	21.70	21.72	
100	QPSK	1	137	21.68	21.66	21.58	22.5
100	QPSK	1	271	21.59	21.62	21.64	
100	QPSK	135	0	21.68	21.61	21.67	
100	QPSK	135	69	21.70	21.74	21.68	
100	QPSK	135	138	21.64	21.72	21.66	22.5
100	QPSK	270	0	21.65	21.73	21.60	22.5
100	8QAM	1	1	21.58	21.72	21.63	22.5
100	8QAM	1	1	21.67	21.74	21.70	22.5
100	256QAM	1	1	20.31	20.25	20.25	21.0
Channel				95900	95900	96000	
Frequency (MHz)							
90	QPSK	1	1	21.55	21.63	21.52	22.5
Channel				95900	95900	96000	
Frequency (MHz)							
80	QPSK	1	1	21.56	21.61	21.53	22.5
Channel				95900	95900	96000	
Frequency (MHz)							
70	QPSK	1	1	21.50	21.62	21.49	22.5
Channel				95900	95900	96000	
Frequency (MHz)							
60	QPSK	1	1	21.51	21.60	21.47	22.5
Channel				95900	95900	96000	
Frequency (MHz)							
50	QPSK	1	1	21.51	21.61	21.61	22.5
Channel				95900	95900	96000	
Frequency (MHz)							
40	QPSK	1	1	21.49	21.60	21.55	22.5
Channel				95900	95900	96000	
Frequency (MHz)							
30	QPSK	1	1	21.48	21.61	21.51	22.5
Channel				95900	95900	96000	
Frequency (MHz)							
20	QPSK	1	1	21.45	21.61	21.58	22.5



FCC_n41_Ant 1

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2468.01	2472.99	2478		
100	PB2 BPSK	1	1	21.63	21.75	21.83		
100	PB2 BPSK	1	137	21.68	21.70	21.82	22.5	0.0
100	PB2 BPSK	1	271	21.70	21.77	21.82		
100	PB2 BPSK	135	0	21.68	21.76	21.78	22.5	0.0
100	PB2 BPSK	135	69	21.62	21.71	21.70	22.5	0.0
100	PB2 BPSK	135	138	21.71	21.73	21.88		
100	PB2 BPSK	270	0	21.70	21.68	21.70	22.5	0.0
100	QPSK	1	1	21.75	21.82	21.77		
100	QPSK	1	137	21.62	21.78	21.87		
100	QPSK	1	271	21.74	21.70	21.68	22.5	0.0
100	QPSK	135	0	21.68	21.74	21.82		
100	QPSK	135	69	21.72	21.78	21.78		
100	QPSK	135	138	21.70	21.68	21.85	22.5	0.0
100	QPSK	270	0	21.69	21.73	21.82	22.5	0.0
100	64QAM	1	1	21.71	21.80	21.83	22.5	0.0
100	64QAM	1	1	21.68	20.96	20.94	21.5	1.0
100	256QAM	1	1	18.89	18.78	18.74	19.5	3.0
Channel								
Frequency (MHz)				2541	2549.99	2554.98		
90	QPSK	1	1	21.61	21.89	21.85	22.5	0.0
Channel								
Frequency (MHz)				2592	2599.99	2604.98		
80	QPSK	1	1	21.73	21.89	21.75	22.5	0.0
Channel								
Frequency (MHz)				2633	2639.99	2644.98		
70	QPSK	1	1	21.86	21.81	21.68	22.5	0.0
Channel								
Frequency (MHz)				2692	2699.99	2704.98		
60	QPSK	1	1	21.89	21.80	21.65	22.5	0.0
Channel								
Frequency (MHz)				2751	2759.99	2764.98		
50	QPSK	1	1	21.74	21.76	21.66	22.5	0.0
Channel								
Frequency (MHz)				2816.01	2829.99	2830		
40	QPSK	1	1	21.68	21.67	21.68	22.5	0.0
Channel								
Frequency (MHz)				2922	2919.99	2920.98		
30	QPSK	1	1	21.60	21.77	21.64	22.5	0.0
Channel								
Frequency (MHz)				3036.02	3042.99	3043.98		
20	QPSK	1	1	21.68	21.76	21.75	22.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				19.99	6333.02			
100	PB2 BPSK	1	1	19.99				
100	PB2 BPSK	1	137	19.67			20.5	0.0
100	PB2 BPSK	1	271	19.95				
100	PB2 BPSK	135	0	19.92			20.5	0.0
100	PB2 BPSK	135	69	19.69			20.5	0.0
100	PB2 BPSK	135	138	19.68			20.5	0.0
100	PB2 BPSK	270	0	19.98				
100	QPSK	1	1	19.70				
100	QPSK	1	137	19.68			20.5	0.0
100	QPSK	1	271	19.67				
100	QPSK	135	0	19.55				
100	QPSK	135	69	19.66			20.5	0.0
100	QPSK	135	138	19.59				
100	QPSK	270	0	19.65			20.5	0.0
100	64QAM	1	1	19.65			20.5	0.0
100	256QAM	1	1	19.68			20.5	0.0
Channel								
Frequency (MHz)				6338.00	6332.02	6338.00		
90	QPSK	1	1	19.83	19.53	19.85	20.5	0.0
Channel								
Frequency (MHz)				6348.00	6332.02	6348.00		
80	QPSK	1	1	19.82	19.58	19.81	20.5	0.0
Channel								
Frequency (MHz)				6358.01	6332.02	6358.01		
70	QPSK	1	1	19.64	19.53	19.60	20.5	0.0
Channel								
Frequency (MHz)				6360	6359.98	6360		
60	QPSK	1	1	19.54	19.63	19.55	20.5	0.0
Channel								
Frequency (MHz)				6376.02	6359.98	6376.02		
50	QPSK	1	1	19.54	19.59	19.58	20.5	0.0
Channel								
Frequency (MHz)				6370.01	6359.98	6370.01		
40	QPSK	1	1	19.58	19.65	19.53	20.5	0.0
Channel								
Frequency (MHz)				6385	6359.98	6384.99		
30	QPSK	1	1	19.61	19.62	19.64	20.5	0.0
Channel								
Frequency (MHz)				6390.02	6359.98	6390.02		
20	QPSK	1	1	19.61	19.61	19.61	20.5	0.0
Channel								
Frequency (MHz)				6395.00	6359.98	6394.99		
15	QPSK	1	1	19.59	19.61	19.62	20.5	0.0
Channel								
Frequency (MHz)				6393.04	6359.98	6393.04		
10	QPSK	1	1	19.62	19.61	19.64	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				19.99	6333.02			
100	PB2 BPSK	1	1	19.99				
100	PB2 BPSK	1	137	19.84			21.0	0.0
100	PB2 BPSK	1	271	19.91				
100	PB2 BPSK	135	0	19.93			21.0	0.0
100	PB2 BPSK	135	69	19.88			21.0	0.0
100	PB2 BPSK	135	138	19.96				
100	PB2 BPSK	270	0	19.85			21.0	0.0
100	QPSK	1	1	20.00				
100	QPSK	1	137	19.97			21.0	0.0
100	QPSK	1	271	19.85				
100	QPSK	135	0	19.81				
100	QPSK	135	69	19.87				
100	QPSK	135	138	19.79			21.0	0.0
100	QPSK	270	0	19.73			21.0	0.0
100	64QAM	1	1	19.75			21.0	0.0
100	64QAM	1	1	18.48			19.0	2.0
100	256QAM	1	1	17.21			17.5	3.5
Channel								
Frequency (MHz)				6338.00	6332.02	6338.00		
90	QPSK	1	1	19.98	19.91	19.92	21.0	0.0
Channel								
Frequency (MHz)				6348.00	6332.02	6348.00		
80	QPSK	1	1	19.92	19.83	19.92	21.0	0.0
Channel								
Frequency (MHz)				6358.01	6332.02	6358.01		
70	QPSK	1	1	19.85	19.89	19.93	21.0	0.0
Channel								
Frequency (MHz)				6360	6359.98	6360		
60	QPSK	1	1	19.95	19.90	19.88	21.0	0.0
Channel								
Frequency (MHz)				6376.02	6359.98	6376.02		
50	QPSK	1	1	19.85	19.95	19.98	21.0	0.0
Channel								
Frequency (MHz)				6370.01	6359.98	6370.01		
40	QPSK	1	1	19.90	19.90	19.88	21.0	0.0
Channel								
Frequency (MHz)				6385	6359.98	6384.99		
30	QPSK	1	1	19.85	19.85	19.87	21.0	0.0
Channel								
Frequency (MHz)				6390.02	6359.98	6390.02		
20	QPSK	1	1	19.90	19.91	19.92	21.0	0.0
Channel								
Frequency (MHz)				6395.00	6359.98	6394.99		
15	QPSK	1	1	19.84	19.82	19.92	21.0	0.0
Channel								
Frequency (MHz)				6393.04	6359.98	6393.04		
10	QPSK	1	1	19.94	19.88	19.88	21.0	0.0



Par27Q n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.19	20.19				
100	PI2 BPSK	1	137	20.20			21.0	0.0	
100	PI2 BPSK	1	271	20.18					
100	PI2 BPSK	135	0	20.15			21.0	0.0	
100	PI2 BPSK	135	69	20.20			21.0	0.0	
100	PI2 BPSK	135	138	20.15			21.0	0.0	
100	PI2 BPSK	270	0	20.18					
100	QPSK	1	1	20.19					
100	QPSK	1	137	20.19			21.0	0.0	
100	QPSK	1	271	20.13					
100	QPSK	135	0	20.13			21.0	0.0	
100	QPSK	135	69	20.22					
100	QPSK	135	138	20.13			21.0	0.0	
100	QPSK	270	0	20.18			21.0	0.0	
100	8QAM	1	1	20.16			21.0	0.0	
100	8QAM	1	1	20.22			21.0	0.0	
100	256QAM	1	1	20.15			21.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.11	20.23	20.18	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.17	20.21	20.19	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.19	20.17	20.17	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.20	20.17	20.15	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.11	20.21	20.19	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.23	20.18	20.16	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.23	20.20	20.18	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.21	20.12	20.10	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.15	20.23	20.21	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.16	20.16	20.11	21.0	0.0	

Par27Q n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Turn-up Int. (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.98					
100	PI2 BPSK	1	137	20.85			22.0	0.0	
100	PI2 BPSK	1	271	20.87					
100	PI2 BPSK	135	0	20.91			22.0	0.0	
100	PI2 BPSK	135	69	20.85			22.0	0.0	
100	PI2 BPSK	135	138	20.87			22.0	0.0	
100	PI2 BPSK	270	0	20.91					
100	QPSK	1	1	21.00					
100	QPSK	1	137	20.84			22.0	0.0	
100	QPSK	1	271	20.89					
100	QPSK	135	0	20.83					
100	QPSK	135	69	20.97			22.0	0.0	
100	QPSK	135	138	20.90					
100	QPSK	270	0	20.78			22.0	0.0	
100	8QAM	1	1	20.96			20.5	0.0	
100	8QAM	1	1	19.27			20.5	1.5	
100	256QAM	1	1	17.77			18.5	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.93	20.90	20.99	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.92	20.88	20.94	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.96	20.87	20.95	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.95	20.93	20.96	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.95	20.90	20.85	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.94	20.88	20.85	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.89	20.92	20.85	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.87	20.82	20.82	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.88	20.90	20.96	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.87	20.97	20.88	22.0	0.0	



Reduced Power Mode for DSI 7

OSM002_Ant 0	Sust. Average Power (dBm)			Frame-Average Power (dBm)			Tune-up	Limit			
TX Channel	834.2	836.4	848.8	834.2	836.4	848.8	Limit (dBm)	834.2	836.4	848.8	Limit (dBm)
OSM 1 Tx Util	32.92	32.48	32.63	33.89	23.92	23.48	23.63	24.60			
OPRS 1 Tx Util	32.92	32.43	32.61	33.89	23.91	23.43	23.61	24.60			
OPRS 2 Tx Util	30.21	30.02	29.98	31.69	24.23	24.02	23.98	25.00			
OPRS 3 Tx Util	28.68	29.70	28.53	29.90	24.42	24.44	24.27	25.24			
OPRS 4 Tx Util	29.29	27.21	28.62	29.69	23.89	24.01	23.85	25.00			
EDGE 1 Tx Util	25.83	25.43	25.60	26.59	18.83	18.43	18.60	17.50			
EDGE 2 Tx Util	25.04	24.58	24.82	25.90	18.04	18.58	18.82	18.90			
EDGE 3 Tx Util	23.99	23.92	23.94	23.99	19.90	19.90	19.78	19.24			
EDGE 4 Tx Util	21.26	21.15	21.10	21.60	18.26	18.10	18.10	18.50			

OSM001_Ant 2	Sust. Average Power (dBm)			Frame-Average Power (dBm)			Tune-up	Limit			
TX Channel	852	861	870	852	861	870	Limit (dBm)	852	861	870	Limit (dBm)
OSM 1 Tx Util	30.22	29.96	29.94	30.92	20.90	20.98	21.50				
OSM 1 Tx Util	29.76	29.84	29.82	30.69	20.76	20.94	20.82	21.50			
OPRS 1 Tx Util	29.72	29.61	29.78	30.58	20.73	20.81	20.78	21.50			
OPRS 2 Tx Util	27.40	27.35	27.47	27.60	21.40	21.35	21.47	21.50			
OPRS 3 Tx Util	25.69	25.76	25.71	25.89	21.43	21.50	21.45	21.54			
OPRS 4 Tx Util	24.13	24.22	24.27	24.86	21.13	21.22	21.27	21.50			
EDGE 1 Tx Util	23.92	23.24	23.89	24.69	18.92	18.24	18.89	17.50			
EDGE 2 Tx Util	23.25	24.27	24.33	24.89	18.23	18.27	18.33	19.00			
EDGE 3 Tx Util	22.98	22.55	22.77	23.84	18.42	18.26	18.51	18.74			
EDGE 4 Tx Util	20.33	20.20	20.34	21.59	17.33	17.20	17.34	18.50			

Band	TX Channel	WCDMA V_Ant 2			WCDMA V_Ant 1			Tune-up	Limit		
Frequency (MHz)	9692	9690	9698	9692	9690	9698	Limit (dBm)	9692	9690	9698	Limit (dBm)
SGPP Ref #9	AMR 12.2kops	21.61	21.62	21.65	22.70	18.74	15.77	15.75	17.70		
SGPP Ref #9	RNC 12.2kops	21.62	21.68	21.68	22.70	18.77	15.70	15.76	17.70		
SGPP Ref #8	HSDPA Subcar-1	20.42	20.65	20.68	21.70	14.76	15.07	14.75	16.70		
SGPP Ref #8	HSDPA Subcar-2	20.58	20.88	20.87	21.70	14.76	15.12	14.71	16.70		
SGPP Ref #8	HSDPA Subcar-3	20.02	20.11	20.16	21.20	14.24	14.66	14.24	16.20		
SGPP Ref #8	HSDPA Subcar-4	20.08	20.18	20.30	21.20	14.26	14.64	14.26	16.20		
SGPP Ref #8	DC-HSDPA Subcar-1	20.37	20.58	20.77	21.70	14.78	15.12	14.73	16.70		
SGPP Ref #8	DC-HSDPA Subcar-2	20.69	20.87	20.74	21.70	14.76	15.12	14.70	16.70		
SGPP Ref #8	DC-HSDPA Subcar-3	20.02	20.17	20.19	21.20	14.26	14.54	14.39	16.20		
SGPP Ref #8	DC-HSDPA Subcar-4	19.99	20.16	20.20	21.20	14.24	14.63	14.25	16.20		
SGPP Ref #8	HSPA Subcar-1	20.52	20.70	20.83	21.70	14.70	15.09	14.70	16.70		
SGPP Ref #8	HSPA Subcar-2	18.61	18.60	18.74	19.70	13.82	13.09	12.78	14.70		
SGPP Ref #8	HSPA Subcar-3	19.87	19.69	19.78	20.70	13.80	14.07	13.77	15.70		
SGPP Ref #8	HSPA Subcar-4	18.60	18.11	18.78	19.70	12.79	13.09	12.75	14.70		
SGPP Ref #8	HSPA Subcar-5	20.67	20.81	20.81	21.70	14.87	15.00	14.73	16.70		

Band	TX Channel	WCDMA V_Ant 5			WCDMA V_Ant 1			Tune-up	Limit		
Frequency (MHz)	834.2	836.4	848.8	834.2	836.4	848.8	Limit (dBm)	834.2	836.4	848.8	Limit (dBm)
SGPP Ref #9	AMR 12.2kops	22.83	22.94	22.88	24.00	21.70	21.83	21.74	23.90		
SGPP Ref #9	RNC 12.2kops	23.96	23.93	23.96	24.00	21.70	21.86	21.80	23.90		
SGPP Ref #8	HSDPA Subcar-1	21.92	21.88	21.89	23.00	20.64	20.72	20.52	21.90		
SGPP Ref #8	HSDPA Subcar-2	21.92	21.91	21.88	23.00	20.75	20.70	20.77	21.90		
SGPP Ref #8	HSDPA Subcar-3	21.42	21.39	21.38	22.50	20.24	20.21	20.24	21.40		
SGPP Ref #8	HSDPA Subcar-4	21.48	21.39	21.36	22.50	20.23	20.28	20.22	21.40		
SGPP Ref #8	DC-HSDPA Subcar-1	21.02	21.85	21.86	23.00	20.88	20.80	20.79	21.90		
SGPP Ref #8	DC-HSDPA Subcar-2	21.92	21.88	21.82	23.00	20.71	20.76	20.81	21.90		
SGPP Ref #8	DC-HSDPA Subcar-3	21.42	21.38	21.35	22.50	20.18	20.21	20.24	21.40		
SGPP Ref #8	DC-HSDPA Subcar-4	21.48	21.38	21.33	22.50	20.17	20.22	20.19	21.40		
SGPP Ref #8	HSPA Subcar-1	21.90	21.82	21.82	23.00	20.70	20.64	20.69	21.90		
SGPP Ref #8	HSPA Subcar-2	19.85	19.87	19.88	21.00	18.70	18.73	18.77	19.80		
SGPP Ref #8	HSPA Subcar-3	20.75	20.00	20.84	22.00	19.87	19.70	19.81	20.80		
SGPP Ref #8	HSPA Subcar-4	19.92	19.83	19.82	21.00	18.72	18.76	18.68	19.80		
SGPP Ref #8	HSPA Subcar-5	21.90	21.90	21.89	23.00	20.88	20.89	20.72	21.90		

Band	TX Channel	WCDMA V_Ant 2			WCDMA V_Ant 1			Tune-up	Limit		
Frequency (MHz)	9692	9690	9698	9692	9690	9698	Limit (dBm)	9692	9690	9698	Limit (dBm)
SGPP Ref #9	AMR 12.2kops	20.05	20.00	19.92	21.20	18.30	18.42	18.40	19.20		
SGPP Ref #9	RNC 12.2kops	20.50	20.10	20.00	21.20	18.35	18.48	18.44	19.20		
SGPP Ref #8	HSDPA Subcar-1	19.06	18.80	19.02	20.00	12.38	12.45	12.52	14.20		
SGPP Ref #8	HSDPA Subcar-2	18.17	18.91	19.07	20.20	12.66	12.30	12.43	14.20		
SGPP Ref #8	HSDPA Subcar-3	18.80	18.90	18.93	19.40	11.90	11.71	11.89	13.70		
SGPP Ref #8	HSDPA Subcar-4	18.90	18.90	18.81	19.70	11.90	11.70	11.99	13.70		
SGPP Ref #8	DC-HSDPA Subcar-1	19.13	18.84	19.01	20.20	12.52	12.38	12.47	14.20		
SGPP Ref #8	DC-HSDPA Subcar-2	19.36	18.80	18.90	20.20	12.16	12.25	12.32	14.20		
SGPP Ref #8	DC-HSDPA Subcar-3	18.97	18.50	18.63	19.70	11.88	11.70	11.89	13.70		
SGPP Ref #8	DC-HSDPA Subcar-4	18.80	18.20	18.37	19.70	11.94	11.77	11.92	13.70		
SGPP Ref #8	HSPA Subcar-1	19.00	18.83	19.10	20.20	12.48	12.38	12.51	14.20		
SGPP Ref #8	HSPA Subcar-2	17.16	18.80	18.98	19.20	10.34	10.24	10.44	12.20		
SGPP Ref #8	HSPA Subcar-3	18.05	17.81	18.13	19.20	11.45	11.35	11.48	13.20		
SGPP Ref #8	HSPA Subcar-4	17.12	16.98	17.12	18.20	10.46	10.21	10.50	12.20		
SGPP Ref #8	HSPA Subcar-5	19.17	18.90	19.08	20.20	12.49	12.24	12.37	14.20		



Band 2_Ant 2											
BW (MHz)	Multiplexing	RB (MHz)	RB Offset	Fwd Ch Freq (MHz)	Fwd Mod Ch Freq (MHz)	Fwd H Ch Freq (MHz)	Turn-up (dB)	MPE (dB)	Ch (dB)	Ch (dB)	Ch (dB)
30	OPSK	1	0	21.07	21.06	21.02	23.2	0			
30	OPSK	1	49	21.53	21.67	21.42					
30	OPSK	1	97	21.99	21.85	21.43					
30	OPSK	50	0	21.58	21.58	21.45					
30	OPSK	50	24	21.55	21.69	21.42					
30	OPSK	50	49	21.52	21.66	21.42					
30	OPSK	100	0	21.48	21.52	21.43					
30	OPSK	100	1	21.50	21.56	21.43					
30	OPSK	100	2	21.52	21.58	21.43					
30	OPSK	100	3	21.54	21.60	21.43					
30	OPSK	100	4	21.56	21.62	21.43					
30	OPSK	100	5	21.58	21.64	21.43					
30	OPSK	100	6	21.60	21.66	21.43					
30	OPSK	100	7	21.62	21.68	21.43					
30	OPSK	100	8	21.64	21.70	21.43					
30	OPSK	100	9	21.66	21.72	21.43					
30	OPSK	100	10	21.68	21.74	21.43					
30	OPSK	100	11	21.70	21.76	21.43					
30	OPSK	100	12	21.72	21.78	21.43					
30	OPSK	100	13	21.74	21.80	21.43					
30	OPSK	100	14	21.76	21.82	21.43					
30	OPSK	100	15	21.78	21.84	21.43					
30	OPSK	100	16	21.80	21.86	21.43					
30	OPSK	100	17	21.82	21.88	21.43					
30	OPSK	100	18	21.84	21.90	21.43					
30	OPSK	100	19	21.86	21.92	21.43					
30	OPSK	100	20	21.88	21.94	21.43					
30	OPSK	100	21	21.90	21.96	21.43					
30	OPSK	100	22	21.92	21.98	21.43					
30	OPSK	100	23	21.94	22.00	21.43					
30	OPSK	100	24	21.96	22.02	21.43					
30	OPSK	100	25	21.98	22.04	21.43					
30	OPSK	100	26	22.00	22.06	21.43					
30	OPSK	100	27	22.02	22.08	21.43					
30	OPSK	100	28	22.04	22.10	21.43					
30	OPSK	100	29	22.06	22.12	21.43					
30	OPSK	100	30	22.08	22.14	21.43					
30	OPSK	100	31	22.10	22.16	21.43					
30	OPSK	100	32	22.12	22.18	21.43					
30	OPSK	100	33	22.14	22.20	21.43					
30	OPSK	100	34	22.16	22.22	21.43					
30	OPSK	100	35	22.18	22.24	21.43					
30	OPSK	100	36	22.20	22.26	21.43					
30	OPSK	100	37	22.22	22.28	21.43					
30	OPSK	100	38	22.24	22.30	21.43					
30	OPSK	100	39	22.26	22.32	21.43					
30	OPSK	100	40	22.28	22.34	21.43					
30	OPSK	100	41	22.30	22.36	21.43					
30	OPSK	100	42	22.32	22.38	21.43					
30	OPSK	100	43	22.34	22.40	21.43					
30	OPSK	100	44	22.36	22.42	21.43					
30	OPSK	100	45	22.38	22.44	21.43					
30	OPSK	100	46	22.40	22.46	21.43					
30	OPSK	100	47	22.42	22.48	21.43					
30	OPSK	100	48	22.44	22.50	21.43					
30	OPSK	100	49	22.46	22.52	21.43					
30	OPSK	100	50	22.48	22.54	21.43					
30	OPSK	100	51	22.50	22.56	21.43					
30	OPSK	100	52	22.52	22.58	21.43					
30	OPSK	100	53	22.54	22.60	21.43					
30	OPSK	100	54	22.56	22.62	21.43					
30	OPSK	100	55	22.58	22.64	21.43					
30	OPSK	100	56	22.60	22.66	21.43					
30	OPSK	100	57	22.62	22.68	21.43					
30	OPSK	100	58	22.64	22.70	21.43					
30	OPSK	100	59	22.66	22.72	21.43					
30	OPSK	100	60	22.68	22.74	21.43					
30	OPSK	100	61	22.70	22.76	21.43					
30	OPSK	100	62	22.72	22.78	21.43					
30	OPSK	100	63	22.74	22.80	21.43					
30	OPSK	100	64	22.76	22.82	21.43					
30	OPSK	100	65	22.78	22.84	21.43					
30	OPSK	100	66	22.80	22.86	21.43					
30	OPSK	100	67	22.82	22.88	21.43					
30	OPSK	100	68	22.84	22.90	21.43					
30	OPSK	100	69	22.86	22.92	21.43					
30	OPSK	100	70	22.88	22.94	21.43					
30	OPSK	100	71	22.90	22.96	21.43					
30	OPSK	100	72	22.92	22.98	21.43					
30	OPSK	100	73	22.94	23.00	21.43					
30	OPSK	100	74	22.96	23.02	21.43					
30	OPSK	100	75	22.98	23.04	21.43					
30	OPSK	100	76	23.00	23.06	21.43					
30	OPSK	100	77	23.02	23.08	21.43					
30	OPSK	100	78	23.04	23.10	21.43					
30	OPSK	100	79	23.06	23.12	21.43					
30	OPSK	100	80	23.08	23.14	21.43					
30	OPSK	100	81	23.10	23.16	21.43					
30	OPSK	100	82	23.12	23.18	21.43					
30	OPSK	100	83	23.14	23.20	21.43					
30	OPSK	100	84	23.16	23.22	21.43					
30	OPSK	100	85	23.18	23.24	21.43					
30	OPSK	100	86	23.20	23.26	21.43					
30	OPSK	100	87	23.22	23.28	21.43					
30	OPSK	100	88	23.24	23.30	21.43					
30	OPSK	100	89	23.26	23.32	21.43					
30	OPSK	100	90	23.28	23.34	21.43					
30	OPSK	100	91	23.30	23.36	21.43					
30	OPSK	100	92	23.32	23.38	21.43					
30	OPSK	100	93	23.34	23.40	21.43					
30	OPSK	100	94	23.36	23.42	21.43					
30	OPSK	100	95	23.38	23.44	21.43					
30	OPSK	100	96	23.40	23.46	21.43					
30	OPSK	100	97	23.42	23.48	21.43					
30	OPSK	100	98	23.44	23.50	21.43					
30	OPSK	100	99	23.46	23.52	21.43					
30	OPSK	100	100	23.48	23.54	21.43					

Band 2_Ant 1											
BW (MHz)	Multiplexing	RB (MHz)	RB Offset	Fwd Ch Freq (MHz)	Fwd Mod Ch Freq (MHz)	Fwd H Ch Freq (MHz)	Turn-up (dB)	MPE (dB)	Ch (dB)	Ch (dB)	Ch (dB)
30	OPSK	1	0	14.38	14.40	14.43	15.7	0			
30	OPSK	1	49	14.34	14.32	14.24					
30	OPSK	1	97	14.30	14.28	14.23					
30	OPSK	50	0	14.32	14.30	14.21					
30	OPSK	50	24	14.29	14.25	14.20					
30	OPSK	50	49	14.25	14.23	14.20					
30	OPSK	100	0	14.30	14.34	14.25					
30	OPSK	100	1	14.32	14.31	14.19					
30	OPSK	100	2	14.34	14.30	14.25					
30	OPSK	100	3	14.36	14.31	14.23					
30	OPSK	100	4	14.38	14.32	14.20					
30	OPSK	100	5	14.40	14.28	14.21					
30	OPSK	100	6	14.28	14.27	14.28					
30	OPSK	100	7	14.30	14.28	14.20					
30	OPSK	100	8	14.32	14.26	14.25					
30	OPSK	100	9	14.34	14.26	14.24					
30	OPSK	100	10	14.36	14.26	14.20					
30	OPSK	100	11	14.38	14.26	14.20					
30	OPSK	100	12	14.40	14.26	14.20					
30	OPSK	100	13	14.42	14.26	14.20					
30	OPSK	100	14	14.44	14.26	14.20					
30	OPSK	100	15	14.46	14.26	14.20					
30	OPSK	100	16	14.48	14.26	14.20					
30	OPSK	100	17	14.50	14.26	14.20					
30	OPSK	100	18	14.52	14.26	14.20					
30	OPSK	100	19	14.54	14.26	14.20					
30	OPSK	100	20	14.56	14.26	14.20					
30	OPSK	100	21	14.58	14.26	14.20					
30	OPSK	100	22	14.60	14.26	14.20					
30	OPSK	100	23	14.62	14.26	14.20					
30	OPSK	100	24	14.64	14.26	14.20					
30	OPSK	100	25	14.66	14.26	14.20					
30	OPSK	100	26	14.68	14.26	14.20					
30	OPSK	100	27	14.70	14.26	14.20					
30	OPSK	100	28	14.72	14.26	14.20					
30	OPSK	100	29	14.74	14.26	14.20					
30	OPSK	100	30	14.76	14.26	14.20					
30	OPSK	100	31	14.78	14.26	14.20					



Band 7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Const.	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (min)	MPE (dB)	
Channel	Frequency (MHz)			2000	2100	2160			
20	OPSK	1	0	18.31	18.73	19.22			
20	OPSK	1	49	18.55	18.66	18.67	19.9	0	
20	OPSK	1	99	18.55	18.63	18.68			
20	OPSK	50	0	18.31	18.73	19.22			
20	OPSK	50	24	18.62	18.70	18.68	19.9	0	
20	OPSK	50	49	18.55	18.63	18.68			
20	OPSK	100	0	18.31	18.70	18.66			
20	16QAM	1	0	18.69	18.69	18.64	19.9	0	
20	16QAM	1	49	18.64	18.62	18.68			
20	16QAM	50	0	18.31	18.70	18.61			
20	16QAM	50	24	18.56	18.63	18.69	19.9	0	
20	16QAM	50	49	18.55	18.62	18.61			
20	16QAM	100	0	18.69	18.65	18.59	19.9	0	
20	16QAM	100	24	18.58	18.62	18.64			
20	16QAM	100	49	18.55	18.62	18.61			
20	16QAM	50	0	18.31	18.70	18.61			
20	16QAM	50	24	18.56	18.63	18.69	19.9	0	
20	16QAM	50	49	18.55	18.62	18.61			
20	256QAM	1	0	18.69	18.70	18.67			
20	256QAM	1	49	18.59	18.74	18.67	19	0.9	
20	256QAM	1	99	18.59	18.66	18.67			
20	256QAM	50	0	18.31	18.70	18.67			
20	256QAM	50	24	18.60	18.72	18.62	19	0.9	
20	256QAM	50	49	18.59	18.66	18.65			
20	256QAM	100	0	18.63	18.74	18.67			
20	256QAM	100	24	18.57	18.73	18.65			
20	256QAM	100	49	18.57	18.73	18.65			
Channel	Frequency (MHz)			2000	2100	2160	Turn-up time (min)	MPE (dB)	
15	OPSK	1	0	18.55	18.66	18.69			
15	OPSK	1	37	18.33	18.63	18.45	19.9	0	
15	OPSK	1	74	18.33	18.63	18.45			
15	OPSK	36	0	18.36	18.64	18.68			
15	OPSK	36	20	18.56	18.65	18.53	19.9	0	
15	OPSK	36	40	18.48	18.62	18.56			
15	OPSK	75	0	18.45	18.58	18.51			
15	16QAM	1	0	18.58	18.63	18.59	19.9	0	
15	16QAM	1	37	18.37	18.62	18.49			
15	16QAM	1	74	18.44	18.54	18.52			
15	16QAM	36	0	18.47	18.63	18.54	19.9	0	
15	16QAM	36	20	18.59	18.69	18.65			
15	16QAM	36	39	18.51	18.59	18.47			
15	16QAM	75	0	18.60	18.54	18.53			
15	16QAM	75	20	18.57	18.62	18.58			
15	16QAM	100	0	18.49	18.59	18.65			
15	16QAM	100	24	18.52	18.62	18.57	19	0.9	
15	16QAM	100	49	18.49	18.59	18.65			
15	256QAM	1	0	18.49	18.59	18.65			
15	256QAM	1	37	18.49	18.63	18.57	19	0.9	
15	256QAM	1	74	18.48	18.63	18.54			
15	256QAM	36	0	18.45	18.59	18.49			
15	256QAM	36	20	18.60	18.72	18.64	19	0.9	
15	256QAM	36	39	18.55	18.61	18.51			
15	256QAM	75	0	18.59	18.67	18.64			
15	256QAM	75	20	18.52	18.67	18.60			
15	256QAM	100	0	18.59	18.67	18.64			
15	256QAM	100	24	18.52	18.64	18.63			
15	256QAM	100	49	18.52	18.64	18.63			
Channel	Frequency (MHz)			2000	2100	2160	Turn-up time (min)	MPE (dB)	
10	OPSK	1	0	18.68	18.73	18.62			
10	OPSK	1	25	18.40	18.63	18.49	19.9	0	
10	OPSK	1	50	18.42	18.63	18.57			
10	OPSK	26	0	18.33	18.71	18.60			
10	OPSK	26	12	18.46	18.65	18.55	19.9	0	
10	OPSK	26	25	18.41	18.62	18.56			
10	OPSK	50	0	18.36	18.68	18.65			
10	16QAM	1	0	18.65	18.66	18.62	19.9	0	
10	16QAM	1	25	18.59	18.57	18.59			
10	16QAM	26	0	18.44	18.66	18.57			
10	16QAM	26	12	18.48	18.59	18.56	19.9	0	
10	16QAM	26	25	18.44	18.56	18.57			
10	16QAM	50	0	18.31	18.69	18.46			
10	16QAM	50	24	18.54	18.69	18.69	19.9	0	
10	16QAM	50	49	18.51	18.63	18.63			
10	16QAM	100	0	18.65	18.62	18.64			
10	16QAM	100	24	18.55	18.53	18.57	19.9	0	
10	16QAM	100	49	18.52	18.61	18.61			
10	16QAM	26	0	18.47	18.61	18.68			
10	16QAM	26	12	18.48	18.59	18.57	19.9	0	
10	16QAM	26	25	18.49	18.56	18.67			
10	16QAM	50	0	18.34	18.65	18.62			
10	16QAM	50	24	18.54	18.69	18.69	19.9	0	
10	16QAM	50	49	18.51	18.63	18.63			
10	16QAM	100	0	18.65	18.62	18.64			
10	16QAM	100	24	18.55	18.53	18.57	19.9	0	
10	16QAM	100	49	18.52	18.61	18.61			
10	256QAM	1	0	18.49	18.59	18.65			
10	256QAM	1	25	18.40	18.64	18.49	19	0.9	
10	256QAM	1	50	18.42	18.63	18.57			
10	256QAM	26	0	18.45	18.62	18.42			
10	256QAM	26	12	18.47	18.59	18.59	19	0.9	
10	256QAM	26	25	18.48	18.57	18.62			
10	256QAM	50	0	18.32	18.64	18.43			
10	256QAM	50	24	18.53	18.64	18.63	19	0.9	
10	256QAM	50	49	18.53	18.64	18.63			

Band 7_Ant 1									
BW (MHz)	Modulation	RB Size	RB Const.	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (min)	MPE (dB)	
Channel	Frequency (MHz)			2007	2100	2160			
20	OPSK	1	0	18.27 <th>18.28 <th>18.20 <td></td> <td></td> <td></td> </th></th>	18.28 <th>18.20 <td></td> <td></td> <td></td> </th>	18.20 <td></td> <td></td> <td></td>			
20	OPSK	1	49	18.21	18.17	18.13	16.2	0	
20	OPSK	1	99	18.15	18.13	18.13			
20	OPSK	50	0 <td>18.27</td> <td>18.24</td> <td>18.15</td> <td></td> <td></td> <td></td>	18.27	18.24	18.15			
20	OPSK	50	24	18.15	18.18	18.12	16.2	0	
20	OPSK	50	49	18.15	18.13	18.13			
20	OPSK	100	0	18.18	18.20	18.15			
20	16QAM	1	0	18.52	18.19	18.15	16.2	0	
20	16QAM	1	49	18.30	18.27	18.28			
20	16QAM	50	0	18.13	18.21	18.19			
20	16QAM	50	24	18.13	18.21	18.19	16.2	0	
20	16QAM	50	49	18.13	18.21	18.19			
20	16QAM	100	0	18.36	18.28	18.19	16.2	0	
20	16QAM	100	24	18.13	18.21	18.19			
20	16QAM	100	49	18.13	18.21	18.19			
20	16QAM	50	0	18.13	18.21	18.19	16.2	0	
20	16QAM	50	24	18.13	18.21	18.19			
20	16QAM	50	49	18.13	18.21	18.19			
20	256QAM	1	0	18.07	18.10	18.11			
20	256QAM	1	49	18.12	18.17	18.10	16.2	0	
20	256QAM	1	99	18.15	18.13	18.13			
20	256QAM	50	0	18.08	18.10	18.07			
20	256QAM	50	24	18.07	18.22	18.09	16.2	0	
20	256QAM	50	49	18.13	18.11	18.11			
20	256QAM	100	0	18.13	18.11	18.11			
20	256QAM	100	24	18.07	18.13	18.08	16.2	0	
20	256QAM	100	49	18.13	18.13	18.08			
Channel	Frequency (MHz)			2007	2100	2160	Turn-up time (min)	MPE (dB)	
15	OPSK	1	0	18.18	18.20	18.14			
15	OPSK	1	37	18.23	18.07	18.06	16.2	0	
15	OPSK	1	74	18.18	18.08	18.08			
15	OPSK	36	0	18.12	18.17	18.12			
15	OPSK	36	20	18.09	18.11	18.08	16.2	0	
15	OPSK	36	40	18.12	18.12	18.07			
15	OPSK	75	0	18.07	18.08	18.13			
15	16QAM	1	0	18.10	18.08	18.09	16.2	0	
15	16QAM	1	37	18.03	18.09	18.02			
15	16QAM	1	74	18.16	18.17	18.12			
15	16QAM	36	0	18.08	18.14	18.04			
15	16QAM	36	20	18.02	18.09	18.02	16.2	0	
15	16QAM	36	39	18.02	18.17	18.09			
15	16QAM	75	0	18.03	18.07	18.02			
15	16QAM	75	20	18.07	18.08	18.09			
15	16QAM	100	0	18.14	18.10	18.05			
15	16QAM	100	24	18.05	18.12	18.05	16.2	0	
15	16QAM	100	49	18.05	18.12	18.05			
15	256QAM	1	0	18.09	18.09	18.07			
15	256QAM	1	37	18.09	18.04	18.04	16.2	0	
15	256QAM	1	74	18.08	18.04	18.03			
15	256QAM	36	0	18.03	18.12	18.07			
15	256QAM	36	20	18.07	18.11	18.02	16.2	0	
15	256QAM	36	39	18.06	18.10	18.05			
15	256QAM	75	0	18.02	18.05	18.05			
15	256QAM	75	20	18.02	18.05	18.11			
15	256QAM	100	0	18.05	18.12	18.05			
15	256QAM	100	24	18.05	18.12	18.05	16.2	0	
15	256QAM	100	49	18.05	18.12</				



Band 12_Ant 1											
BW (MHz)	Modulation	RB Size	RB Const.	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (min)	MPE (dB)			
Channel 1											
Frequency (MHz)											
705	707.5										
10	QPSK	1	0	21.72	21.65	21.75	23.5	0			
10	QPSK	1	25	21.67	21.70	21.65					
10	QPSK	1	49	21.62	21.63	21.70					
10	QPSK	25	0	21.75	21.75	21.72					
10	QPSK	25	12	21.69	21.73	21.61	23	0.5			
10	QPSK	25	25	21.62	21.62	21.68					
10	QPSK	50	0	21.65	21.72	21.67					
10	16QAM	1	0	21.63	21.77	21.69	23	0.5			
10	16QAM	1	25	21.62	21.77	21.68					
10	16QAM	1	49	21.69	21.79	21.61					
10	16QAM	25	0	20.95	20.95	20.97					
10	16QAM	25	12	21.17	21.20	21.09					
10	16QAM	25	25	21.06	21.10	21.05	22	1.5			
10	16QAM	50	0	21.12	20.95	21.08					
10	16QAM	50	0	20.93	20.90	20.97					
10	16QAM	1	25	21.39	21.20	21.25	22	1.5			
10	16QAM	1	49	20.84	21.26	21.17					
10	16QAM	25	0	19.99	20.97	19.98					
10	16QAM	25	12	20.16	20.00	20.15	21	2.5			
10	16QAM	25	25	20.03	20.04	20.17					
10	16QAM	50	0	20.03	20.00	20.07					
10	256QAM	1	0	18.00	18.12	17.97					
10	256QAM	1	25	18.06	18.10	17.95	19	4.5			
10	256QAM	1	49	17.96	18.06	17.97					
10	256QAM	25	0	17.91	18.00	17.95					
10	256QAM	25	12	17.86	17.99	17.92	19	4.5			
10	256QAM	25	25	17.87	18.15	18.06					
10	256QAM	50	0	18.02	18.11	18.01					
Channel 2											
Frequency (MHz)											
707.5	710.5										
5	QPSK	1	0	21.68	21.70	21.60	23.5	0			
5	QPSK	1	12	21.64	21.66	21.64					
5	QPSK	1	24	21.58	21.67	21.59					
5	QPSK	12	0	21.61	21.61	21.70					
5	QPSK	12	7	21.63	21.58	21.58	23	0.5			
5	QPSK	12	14	21.45	21.62	21.57					
5	QPSK	25	0	21.53	21.65	21.56					
5	16QAM	1	0	21.50	21.66	21.63	23	0.5			
5	16QAM	1	12	21.53	21.57	21.64					
5	16QAM	1	24	21.61	21.67	21.46					
5	16QAM	12	0	21.00	21.66	21.01	22	1.5			
5	16QAM	12	7	21.06	21.57	21.04					
5	16QAM	12	13	21.13	20.96	21.07					
5	16QAM	25	0	21.08	21.13	20.98					
5	16QAM	1	12	20.94	21.27	21.04					
5	16QAM	1	12	20.97	21.18	21.22	22	1.5			
5	16QAM	1	24	21.26	21.13	21.27					
5	16QAM	12	0	19.89	20.94	19.95					
5	16QAM	12	7	19.97	20.93	20.14	21	2.5			
5	16QAM	12	13	20.12	20.06	20.25					
5	16QAM	25	0	19.93	19.99	20.07					
5	256QAM	1	0	17.88	18.07	17.92					
5	256QAM	1	12	18.01	18.06	17.97	19	4.5			
5	256QAM	1	24	17.93	17.95	18.03					
5	256QAM	12	0	17.90	17.85	18.01					
5	256QAM	12	7	17.92	18.01	17.97	19	4.5			
5	256QAM	12	13	17.88	18.05	18.07					
5	256QAM	25	0	18.00	18.00	17.93					
Channel 3											
Frequency (MHz)											
707.5	707.5										
3	QPSK	1	0	21.61	21.78	21.66	23.5	0			
3	QPSK	1	8	21.65	21.67	21.58					
3	QPSK	1	16	21.62	21.63	21.52					
3	QPSK	8	0	21.61	21.68	21.64					
3	QPSK	8	4	21.62	21.67	21.55	23	0.5			
3	QPSK	8	8	21.62	21.64	21.60					
3	QPSK	16	0	21.52	21.61	21.67					
3	16QAM	1	0	21.48	21.73	21.60	23	0.5			
3	16QAM	1	8	21.62	21.71	21.63					
3	16QAM	1	14	21.62	21.78	21.47					
3	16QAM	8	0	21.19	20.96	21.03					
3	16QAM	8	4	21.62	21.11	21.10	22	1.5			
3	16QAM	8	7	21.08	21.01	21.02					
3	16QAM	16	0	21.03	20.96	20.97					
3	16QAM	1	0	21.40	21.14	21.15					
3	16QAM	1	8	21.26	21.13	21.01	22	1.5			
3	16QAM	1	14	20.84	21.54	21.06					
3	16QAM	8	0	19.99	19.99	19.79					
3	16QAM	8	4	20.03	20.09	20.05	21	2.5			
3	16QAM	8	7	19.97	19.96	20.04					
3	16QAM	16	0	19.97	19.95	19.95					
3	256QAM	1	0	17.99	18.05	17.85					
3	256QAM	1	8	17.99	17.96	17.86	19	4.5			
3	256QAM	1	14	17.85	17.86	17.91					
3	256QAM	8	0	17.89	17.85	17.88					
3	256QAM	8	4	17.91	17.94	17.84	19	4.5			
3	256QAM	8	7	17.86	18.05	18.00					
3	256QAM	16	0	17.94	18.06	17.92					
Channel 4											
Frequency (MHz)											
707.5	707.5										
1.4	QPSK	1	0	21.62	21.71	21.64	23.5	0			
1.4	QPSK	1	3	21.63	21.66	21.59					
1.4	QPSK	1	6	21.62	21.61	21.59					
1.4	QPSK	3	0	21.65	21.60	21.66					
1.4	QPSK	3	1	21.67	21.61	21.53					
1.4	QPSK	3	3	21.54	21.60	21.56					
1.4	QPSK	6	0	21.62	21.61	21.56	23	0.5			
1.4	16QAM	1	0	21.57	21.78	21.64					
1.4	16QAM	1	3	21.68	21.71	21.52					
1.4	16QAM	1	6	21.67	21.70	21.49					
1.4	16QAM	3	0	21.54	21.73	21.61	23	0.5			
1.4	16QAM	3	1	21.66	21.66	21.59					
1.4	16QAM	3	3	21.54	21.69	21.47					
1.4	16QAM	6	0	20.97	20.81	21.00	22	1.8			
1.4	16QAM	6	1	20.98	21.29	21.07					
1.4	16QAM	1	3	21.30	21.06	21.16					
1.4	16QAM	1	0	20.73	21.16	21.08	22	1.5			
1.4	16QAM	3	0	20.51	20.95	20.95					
1.4	16QAM	3	1	21.29	20.99	21.14					
1.4	16QAM	3	0	20.88	21.06	20.95	21	2.5			
1.4	16QAM	6	0	19.80	19.85	19.78					
1.4	256QAM	1	0	17.99	18.10	17.83					
1.4	256QAM	1	3	18.09	18.07	17.92	19	4.5			
1.4	256QAM	1	6	17.88	17.94	17.89					
1.4	256QAM	3	0	17.79	17.99	17.88					
1.4	256QAM	3	1	17.85	17.95	17.87					
1.4	256QAM	3	3	17.97	18.11	17.99					
1.4	256QAM	6	0	17.88	17.96	17.91	19	4.5			

Band 13_Ant 0											
BW (MHz)	Modulation	RB Size	RB Const.	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Turn-up time (min)	MPE (dB)			
Channel 1											
Frequency (MHz)											
705	707.5										
10	QPSK	1	0	23.52			24	0			
10	QPSK	1	25	23.24							
10	QPSK	1	49	23.24							
10											



Band 17_Ant 1										
BW (MHz)	Modulation	RB	RB Config	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MPE (dB)		
Channel		Frequency (MHz)		2040	2050	2060				
10	QPSK	1	0	21.30	21.70	21.72	23.5	0		
10	QPSK	1	25	21.87	21.72	21.83				
10	QPSK	1	49	21.56	21.67	21.81				
10	QPSK	25	0	21.07	21.72	21.70				
10	QPSK	25	12	21.85	21.68	21.69	23	0.5		
10	QPSK	25	25	21.62	21.63	21.55				
10	QPSK	50	0	21.05	21.70	21.67				
10	QPSK	50	9	21.89	21.62	21.62	23	0.5		
10	QPSK	50	18	21.62	21.63	21.55				
10	QPSK	100	0	21.07	21.70	21.68				
10	QPSK	100	49	21.57	21.70	21.82				
10	QPSK	100	99	21.80	21.61	20.88				
10	QPSK	250	0	21.02	21.11	21.04				
10	QPSK	250	25	21.32	21.23	21.07				
10	QPSK	250	50	21.14	21.10	21.11	22	1.5		
10	QPSK	250	75	21.06	21.08	21.08				
10	QPSK	250	100	21.02	21.03	21.04				
10	QPSK	500	0	21.02	21.09	21.05				
10	QPSK	500	49	21.19	21.23	21.03				
10	QPSK	500	99	21.04	21.08	19.99				
10	QPSK	1000	0	20.94	20.99	20.98	21	2.5		
10	QPSK	1000	25	20.79	21.00	20.94				
10	QPSK	1000	50	20.98	20.92	20.94				
10	QPSK	1000	75	20.94	20.98	19.98				
10	QPSK	1000	100	20.94	20.98	19.98				
10	QPSK	2000	0	18.17	18.18	18.06	19	4.5		
10	QPSK	2000	1	18.31	18.13	18.05				
10	QPSK	2000	2	18.11	18.20	18.12				
10	QPSK	2000	3	18.00	18.14	18.04				
10	QPSK	2000	4	18.12	18.18	18.11				
10	QPSK	2000	5	18.04	18.17	18.03				
10	QPSK	2000	6	18.08	18.20	18.07				
Channel		Frequency (MHz)		2040	2050	2060				
5	QPSK	1	0	21.07	21.60	21.68	23.5	0		
5	QPSK	1	12	21.27	21.60	21.57				
5	QPSK	1	24	21.60	21.60	21.50				
5	QPSK	12	0	21.54	21.63	21.59				
5	QPSK	12	7	21.54	21.58	21.68	23	0.5		
5	QPSK	12	14	21.52	21.63	21.55				
5	QPSK	25	0	21.03	21.58	21.48				
5	QPSK	25	1	21.58	21.58	21.60	23	0.5		
5	QPSK	25	2	21.62	21.60	21.57				
5	QPSK	50	0	21.02	21.62	21.58				
5	QPSK	50	12	21.15	21.60	21.62	22	1.5		
5	QPSK	50	25	20.98	21.64	20.90				
5	QPSK	50	37	21.02	21.54	21.55				
5	QPSK	100	0	20.93	21.00	21.00	22	1.5		
5	QPSK	100	7	20.93	20.97	20.99				
5	QPSK	100	14	20.94	21.00	20.94	21	2.5		
5	QPSK	100	21	20.99	20.98	20.94				
5	QPSK	200	0	18.02	18.10	18.04	19	4.5		
5	QPSK	200	1	18.07	18.08	18.03				
5	QPSK	200	2	18.07	18.18	18.10				
5	QPSK	200	3	18.02	18.18	18.10				
5	QPSK	200	4	18.07	18.17	18.09				
5	QPSK	200	5	18.02	18.18	18.10				
5	QPSK	200	6	18.02	18.05	18.06	19	4.2		
5	QPSK	200	7	18.02	18.05	18.06				
5	QPSK	200	8	18.02	18.05	18.06				
5	QPSK	200	9	18.02	18.05	18.06				
5	QPSK	200	10	18.02	18.05	18.06				
5	QPSK	200	11	18.02	18.05	18.06				
5	QPSK	200	12	18.02	18.05	18.06				
5	QPSK	200	13	18.02	18.05	18.06				
5	QPSK	200	14	18.02	18.05	18.06				
5	QPSK	200	15	18.02	18.05	18.06				
5	QPSK	200	16	18.02	18.05	18.06				
5	QPSK	200	17	18.02	18.05	18.06				
5	QPSK	200	18	18.02	18.05	18.06				
5	QPSK	200	19	18.02	18.05	18.06				
5	QPSK	200	20	18.02	18.05	18.06				
5	QPSK	200	21	18.02	18.05	18.06				
5	QPSK	200	22	18.02	18.05	18.06				
5	QPSK	200	23	18.02	18.05	18.06				
5	QPSK	200	24	18.02	18.05	18.06				
5	QPSK	200	25	18.02	18.05	18.06				
5	QPSK	200	26	18.02	18.05	18.06				
5	QPSK	200	27	18.02	18.05	18.06				
5	QPSK	200	28	18.02	18.05	18.06				
5	QPSK	200	29	18.02	18.05	18.06				
5	QPSK	200	30	18.02	18.05	18.06				
5	QPSK	200	31	18.02	18.05	18.06				
5	QPSK	200	32	18.02	18.05	18.06				
5	QPSK	200	33	18.02	18.05	18.06				
5	QPSK	200	34	18.02	18.05	18.06				
5	QPSK	200	35	18.02	18.05	18.06				
5	QPSK	200	36	18.02	18.05	18.06				
5	QPSK	200	37	18.02	18.05	18.06				
5	QPSK	200	38	18.02	18.05	18.06				
5	QPSK	200	39	18.02	18.05	18.06				
5	QPSK	200	40	18.02	18.05	18.06				
5	QPSK	200	41	18.02	18.05	18.06				
5	QPSK	200	42	18.02	18.05	18.06				
5	QPSK	200	43	18.02	18.05	18.06				
5	QPSK	200	44	18.02	18.05	18.06				
5	QPSK	200	45	18.02	18.05	18.06				
5	QPSK	200	46	18.02	18.05	18.06				
5	QPSK	200	47	18.02	18.05	18.06				
5	QPSK	200	48	18.02	18.05	18.06				
5	QPSK	200	49	18.02	18.05	18.06				
5	QPSK	200	50	18.02	18.05	18.06				
5	QPSK	200	51	18.02	18.05	18.06				
5	QPSK	200	52	18.02	18.05	18.06				
5	QPSK	200	53	18.02	18.05	18.06				
5	QPSK	200	54	18.02	18.05	18.06				
5	QPSK	200	55	18.02	18.05	18.06				
5	QPSK	200	56	18.02	18.05	18.06				
5	QPSK	200	57	18.02	18.05	18.06				
5	QPSK	200	58	18.02	18.05	18.06				
5	QPSK	200	59	18.02	18.05	18.06				
5	QPSK	200	60	18.02	18.05	18.06				
5	QPSK	200	61	18.02	18.05	18.06				
5	QPSK	200	62	18.02	18.05	18.06				
5	QPSK	200	63	18.02	18.05	18.06				
5	QPSK	200	64	18.02	18.05	18.06				
5	QPSK	200	65	18.02	18.05	18.06				
5	QPSK	200	66	18.02	18.05	18.06				
5	QPSK	200	67	18.02	18.05	18.06				
5	QPSK	200	68	18.02	18.05	18.06				
5	QPSK	200	69	18.02	18.05	18.06				
5	QPSK	200	70	18.02	18.05	18.06				
5	QPSK	200	71	18.02	18.05	18.06				
5	QPSK	200	72	18.02	18.05	18.06				
5	QPSK	200	73	18.02	18.05	18.06				
5	QPSK	200	74	18.02	18.05	18.06				
5	QPSK	200	75	18.02	18.05	18.06				
5	QPSK	200	76	18.02	18.05	18.06				
5	QPSK	200	77	18.02	18.05	18.06				
5	QPSK	200	78	18.02	18.05	18.06				
5	QPSK	200	79	18.02	18.05	18.06				
5	QPSK	200	80	18.02	18.05	18.06				
5	QPSK	200	81	18.02	18.05	18.06				
5	QPSK	200	82	18.02	18.05	18.06				
5	QPSK	200	83	18.02	18.05	18.06				
5	QPSK	200	84	18.02	18.05	18.06				
5	QPSK	200	85	18.02	18.05	18.06				
5	QPSK	200	86	18.02	18.05	18.06				
5	QPSK	200	87	18.02	18.05	18.06				
5	QPSK	200	88	18.02	18.05	18.06				
5	QPSK	200	89	18.02	18.05	18.06				
5	QPSK	200	90	18.02	18.05	18.06				
5	QPSK	200	91	18.02	18.05	18.06				
5	QPSK	200	92	18.02	18.05	18.06				
5	QPSK	200	93	18.02	18.05	18.06				
5	QPSK	200	94	18.02	18.05	18.06				
5	QPSK	200	95	18.02	18.05	18.06				
5	QPSK	200	96	18.02	18.05	18.06				
5	QPSK	200	97	18.02	18.05	18.06				
5	QPSK	200	98	18.02	18.05	18.06				
5	QPSK	200	99	18.02	18.05	18.06				
5	QPSK	200	100	18.02	18.05	18.06				

Band 25_Ant 2										
BW (MHz)	Modulation	RB	RB Config</							



Band 26(FCC)_Ant 0											
BW	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turnup Int (sec)	MFR (dB)			
Channel											
Frequency (MHz)											
20765 20765 20765 20765											
20765 20765 20765 20765											
15	QPSK	1	0	22.26	22.26	22.26	24	0			
15	QPSK	1	37	22.75	22.78	22.89	24	0			
15	QPSK	74	0	22.26	22.26	22.26	24	0			
15	QPSK	36	0	22.00	22.08	22.05	24	0			
15	QPSK	36	20	22.55	22.58	22.55	24	0			
15	QPSK	39	29	22.43	22.43	22.43	24	0			
15	QPSK	75	0	22.63	22.57	22.30	24	0			
15	16QAM	1	0	22.81	22.88	22.82	24	0			
15	16QAM	1	37	22.85	22.85	22.85	24	0			
15	16QAM	1	74	22.99	22.98	22.51	23	1			
15	16QAM	36	0	21.82	21.87	21.58	23	1			
15	16QAM	39	29	21.84	21.84	21.51	23	1			
15	16QAM	75	0	21.79	21.83	21.53	23	1			
15	16QAM	75	0	21.84	21.88	21.51	23	1			
15	64QAM	1	0	21.70	21.83	21.98	23	1			
15	64QAM	1	37	21.76	21.83	21.73	23	1			
15	64QAM	1	74	21.80	21.56	21.53	23	1			
15	64QAM	36	0	20.79	20.87	20.97	22	2			
15	64QAM	36	20	20.82	20.87	20.48	22	2			
15	64QAM	39	29	20.80	20.84	20.48	22	2			
15	64QAM	75	0	20.82	20.87	20.48	22	2			
15	256QAM	1	0	18.74	18.75	18.70	19	5			
15	256QAM	1	37	18.72	18.80	18.84	19	5			
15	256QAM	74	0	18.80	18.80	18.80	19	5			
15	256QAM	36	0	18.67	18.73	18.65	19	5			
15	256QAM	36	20	18.79	18.80	18.70	19	5			
15	256QAM	39	29	18.75	18.85	18.80	19	5			
15	256QAM	75	0	18.75	18.83	18.70	19	5			
Channel											
Frequency (MHz)											
20760 20760 20760 20760											
20760 20760 20760 20760											
10	QPSK	1	0	22.78	22.78	22.80	24	0			
10	QPSK	1	25	22.64	22.72	22.58	24	0			
10	QPSK	49	0	22.66	22.63	22.61	24	0			
10	QPSK	25	0	22.46	22.61	22.44	24	0			
10	QPSK	25	12	22.50	22.51	22.37	24	0			
10	QPSK	25	12	22.52	22.43	22.41	24	0			
10	QPSK	50	0	22.43	22.53	22.16	24	0			
10	16QAM	1	0	22.74	22.83	22.55	24	0			
10	16QAM	1	24	22.72	22.71	22.47	24	0			
10	16QAM	1	49	22.50	22.44	22.47	24	0			
10	16QAM	25	0	21.69	21.63	21.51	23	1			
10	16QAM	12	0	21.73	21.67	21.65	23	1			
10	16QAM	25	25	21.76	21.51	21.46	23	1			
10	16QAM	50	0	21.70	21.63	21.42	23	1			
10	64QAM	1	0	21.69	21.78	21.68	23	1			
10	64QAM	1	25	21.66	21.71	21.58	23	1			
10	64QAM	1	49	21.86	21.49	21.30	23	1			
10	64QAM	25	0	20.79	20.80	20.47	22	2			
10	64QAM	25	12	20.81	20.54	20.47	22	2			
10	64QAM	25	25	20.71	20.59	20.47	22	2			
10	256QAM	1	0	18.69	18.72	18.56	19	5			
10	256QAM	1	25	18.56	18.72	18.59	19	5			
10	256QAM	49	0	18.71	18.81	18.84	19	5			
10	256QAM	25	0	18.52	18.57	18.52	19	5			
10	256QAM	25	12	18.63	18.63	18.63	19	5			
10	256QAM	25	25	18.51	18.73	18.68	19	5			
10	256QAM	50	0	18.68	18.81	18.81	19	5			
Channel											
Frequency (MHz)											
20715 20715 20715 20715											
20715 20715 20715 20715											
5	QPSK	1	0	22.82	22.88	22.81	24	0			
5	QPSK	1	12	22.61	22.67	22.60	24	0			
5	QPSK	24	0	22.85	22.88	22.85	24	0			
5	QPSK	12	0	22.57	22.66	22.50	24	0			
5	QPSK	12	7	22.51	22.47	22.39	24	0			
5	QPSK	12	7	22.52	22.40	22.40	24	0			
5	QPSK	25	0	22.52	22.54	22.28	24	0			
5	16QAM	1	0	22.74	22.75	22.53	24	0			
5	16QAM	1	12	22.72	22.72	22.47	24	0			
5	16QAM	1	24	22.52	22.46	22.44	24	0			
5	16QAM	12	0	21.67	21.58	21.56	23	1			
5	16QAM	7	0	21.69	21.68	21.67	23	1			
5	16QAM	12	13	21.72	21.55	21.46	23	1			
5	16QAM	25	0	21.62	21.66	21.38	23	1			
5	64QAM	1	0	21.67	21.78	21.68	23	1			
5	64QAM	1	12	21.61	21.76	21.72	23	1			
5	64QAM	1	24	21.66	21.42	21.49	23	1			
5	64QAM	12	0	20.84	20.82	20.44	22	2			
5	64QAM	12	7	20.72	20.59	20.45	22	2			
5	64QAM	12	13	20.69	20.47	20.46	22	2			
5	64QAM	25	0	20.69	20.55	20.45	22	2			
5	256QAM	1	0	18.60	18.50	18.50	19	5			
5	256QAM	1	12	18.66	18.76	18.84	19	5			
5	256QAM	24	0	18.71	18.72	18.84	19	5			
5	256QAM	12	0	18.52	18.70	18.52	19	5			
5	256QAM	12	7	18.67	18.67	18.67	19	5			
5	256QAM	12	13	18.51	18.73	18.74	19	5			
5	256QAM	25	0	18.61	18.75	18.81	19	5			
Channel											
Frequency (MHz)											
20765 20765 20765 20765											
20765 20765 20765 20765											
3	QPSK	1	0	22.76	22.78	22.72	24	0			
3	QPSK	1	8	22.63	22.67	22.54	24	0			
3	QPSK	14	0	22.88	22.88	22.85	24	0			
3	QPSK	8	0	22.49	22.55	22.52	24	0			
3	QPSK	8	4	22.52	22.47	22.41	24	0			
3	QPSK	15	0	22.42	22.47	22.17	24	0			
3	16QAM	1	0	22.72	22.74	22.52	24	0			
3	16QAM	1	8	22.74	22.78	22.47	24	0			
3	16QAM	1	14	22.56	22.43	22.38	24	0			
3	16QAM	8	0	21.79	21.61	21.53	23	1			
3	16QAM	8	4	21.74	21.68	21.47	23	1			
3	16QAM	8	7	21.85	21.56	21.52	23	1			
3	16QAM	15	0	21.79	21.86	21.43	23	1			
3	64QAM	1	0	21.63	21.82	21.87	23	1			
3	64QAM	1	8	21.72	21.70	21.70	23	1			
3	64QAM	1	14	21.68	21.52	21.46	23	1			
3	64QAM	8	0	20.73	20.88	20.95	22	2			
3	64QAM	8	4	20.68	20.65	20.39	22	2			
3	64QAM	8	7	20.76	20.57	20.41	22	2			
3	64QAM	15	0	20.79	20.84	20.45	22	2			
3	256QAM	1	0	18.72	18.74	18.61	19	5			
3	256QAM	1	8	18.68	18.70	18.50	19	5			
3	256QAM	12	0	18.55	18.57	18.55	19	5			
3	256QAM	12	7	18.69	18.67	18.69	19	5			
3	256QAM	12	13	18.61	18.75	18.71	19	5			
3	256QAM	15	0	18.74	18.73	18.65	19	5			
Channel											
Frequency (MHz)											
20715 20715 20715 20715											
20715 20715 20715 20715											
1.4	QPSK	1	0	22.86	22.82	22.72	24	0			
1.4	QPSK	1	3	22.63	22.65	22.58	24	0			
1.4	QPSK	3	0	22.84	22.82	22.80	24	0			
1.4	QPSK	3	0	22.77	22.49	22.33	24	0			
1.4	QPSK	3	1	22.83	22.52	22.31	24	0			
1.4	QPSK	3	3	22.71	22.66	22.38	24	0			
1.4	QPSK	6	0	22.70	22.43	22.32	24	0			
1.4	16QAM	1	0	22.78	22.60	22.31	24	0			
1.4	16QAM	1	3	22.82	22.72	22.55	24	0			
1.4	16QAM	1	5	22.80	22.46	22.55	24	0			
1.4	16QAM	3	0	22.79	22.60	22.42	24	0			
1.4	16QAM	3	1	22.84	21.70	21.60	24	0			
1.4	16QAM	3	3	22.74	22.46	22.46	24	0			
1.4	16QAM	6	0	22.09	21.72	21.73	23	1			
1.4	64QAM	1	0	21.63	21.97	21.98	23	1			
1.4	64QAM	1	3	22.19	21.66	21.64	23	1			
1.4	64QAM	1	5	22.16	21.48	21.61	23	1			
1.4	64QAM	3	0	22.14	21.70	21.60	23	1			
1.4	64QAM	3	1	22.05	21.76	21.59	23	1			
1.4	64QAM	3	3	22.02	20.78	20.50	22	2			
1.4	256QAM	1	0	18.71	18.70	18.60	19	5			
1.4	256QAM	1	3	18.65	18.70	18.61	19	5			
1.4	256QAM	1	5	18.73	18.72	18.71	19	5			
1.4	256QAM	3	0	18.59	18.61	18.54	19	5			
1.4	256QAM	3	1	18.74	18.70	18.70	19	5			
1.4	256QAM	3	3	18.64	18.75	18.74	19	5			
1.4	256QAM	6	0	18.73	18.73	18.72	19	5			

Band 26(FCC)_Ant 1											
BW	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turnup Int (sec)	MFR (dB)			
Channel											
Frequency (MHz)											
20765 20765 20765 20765											
20765											



Band 66_Ant 1

Band	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up (ms)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	13.54	13.63	13.50	14.7	0
20	QPSK	1	40	13.58	13.59	13.46	14.7	0
20	QPSK	1	80	13.55	13.61	13.52	14.7	0
20	QPSK	50	0	13.55	13.63	13.52	14.7	0
20	QPSK	50	24	13.56	13.58	13.57	14.7	0
20	QPSK	50	48	13.61	13.60	13.48	14.7	0
20	QPSK	100	0	13.56	13.59	13.55	14.7	0
20	HQDM	1	0	13.63	13.60	13.46	14.7	0
20	HQDM	1	40	13.52	13.65	13.50	14.7	0
20	HQDM	1	80	13.52	13.56	13.46	14.7	0
20	HQDM	50	0	13.54	13.60	13.58	14.7	0
20	HQDM	50	24	13.52	13.57	13.57	14.7	0
20	HQDM	50	48	13.59	13.67	13.55	14.7	0
20	HQDM	100	0	13.57	13.65	13.56	14.7	0
20	HQDM	100	0	13.59	13.68	13.52	14.7	0
20	HQDM	1	40	13.61	13.55	13.45	14.7	0
20	HQDM	1	80	13.55	13.67	13.59	14.7	0
20	HQDM	50	24	13.52	13.63	13.49	14.7	0
20	HQDM	50	48	13.55	13.60	13.46	14.7	0
20	HQDM	100	0	13.55	13.61	13.45	14.7	0
20	SSBDM	1	0	13.62	13.65	13.45	14.7	0
20	SSBDM	1	40	13.56	13.60	13.53	14.7	0
20	SSBDM	1	80	13.62	13.57	13.47	14.7	0
20	SSBDM	50	0	13.63	13.67	13.59	14.7	0
20	SSBDM	50	24	13.58	13.69	13.49	14.7	0
20	SSBDM	50	48	13.61	13.59	13.47	14.7	0
20	SSBDM	100	0	13.52	13.59	13.58	14.7	0
Channel								
Frequency (MHz)								
15	QPSK	1	0	13.62	13.64	13.48	14.7	0
15	QPSK	1	37	13.56	13.45	13.32	14.7	0
15	QPSK	1	74	13.53	13.45	13.32	14.7	0
15	QPSK	36	0	13.58	13.50	13.55	14.7	0
15	QPSK	36	20	13.44	13.52	13.44	14.7	0
15	QPSK	36	40	13.53	13.45	13.37	14.7	0
15	QPSK	75	0	13.47	13.44	13.44	14.7	0
15	HQDM	1	0	13.54	13.56	13.36	14.7	0
15	HQDM	1	37	13.48	13.51	13.41	14.7	0
15	HQDM	1	74	13.42	13.52	13.34	14.7	0
15	HQDM	36	0	13.40	13.54	13.49	14.7	0
15	HQDM	36	20	13.52	13.64	13.47	14.7	0
15	HQDM	36	36	13.47	13.62	13.43	14.7	0
15	HQDM	75	0	13.50	13.53	13.49	14.7	0
15	HQDM	75	0	13.50	13.61	13.47	14.7	0
15	HQDM	1	37	13.52	13.42	13.38	14.7	0
15	HQDM	1	74	13.53	13.58	13.46	14.7	0
15	HQDM	36	20	13.52	13.59	13.48	14.7	0
15	HQDM	36	36	13.46	13.65	13.44	14.7	0
15	HQDM	75	0	13.51	13.57	13.33	14.7	0
15	SSBDM	1	0	13.48	13.52	13.43	14.7	0
15	SSBDM	1	37	13.40	13.49	13.47	14.7	0
15	SSBDM	1	74	13.52	13.43	13.37	14.7	0
15	SSBDM	36	0	13.50	13.59	13.48	14.7	0
15	SSBDM	36	20	13.52	13.67	13.48	14.7	0
15	SSBDM	36	36	13.53	13.58	13.41	14.7	0
15	SSBDM	75	0	13.37	13.51	13.50	14.7	0
Channel								
Frequency (MHz)								
10	QPSK	1	0	13.54	13.67	13.51	14.7	0
10	QPSK	1	25	13.50	13.54	13.32	14.7	0
10	QPSK	1	49	13.53	13.46	13.42	14.7	0
10	QPSK	25	0	13.54	13.62	13.46	14.7	0
10	QPSK	25	12	13.54	13.45	13.36	14.7	0
10	QPSK	25	24	13.50	13.55	13.49	14.7	0
10	QPSK	50	0	13.40	13.62	13.53	14.7	0
10	HQDM	1	0	13.58	13.46	13.45	14.7	0
10	HQDM	1	25	13.47	13.65	13.49	14.7	0
10	HQDM	1	49	13.46	13.42	13.34	14.7	0
10	HQDM	25	0	13.46	13.48	13.49	14.7	0
10	HQDM	25	12	13.47	13.60	13.47	14.7	0
10	HQDM	25	24	13.42	13.64	13.50	14.7	0
10	HQDM	50	0	13.42	13.53	13.46	14.7	0
10	HQDM	50	0	13.42	13.64	13.51	14.7	0
10	HQDM	1	25	13.52	13.50	13.35	14.7	0
10	HQDM	1	49	13.43	13.64	13.44	14.7	0
10	HQDM	25	12	13.43	13.51	13.39	14.7	0
10	HQDM	25	24	13.47	13.46	13.46	14.7	0
10	HQDM	50	0	13.43	13.55	13.42	14.7	0
10	SSBDM	1	0	13.52	13.63	13.46	14.7	0
10	SSBDM	1	25	13.43	13.50	13.31	14.7	0
10	SSBDM	1	49	13.55	13.44	13.38	14.7	0
10	SSBDM	25	0	13.54	13.61	13.52	14.7	0
10	SSBDM	25	12	13.56	13.48	13.40	14.7	0
10	SSBDM	25	24	13.49	13.51	13.40	14.7	0
10	SSBDM	50	0	13.43	13.51	13.40	14.7	0
10	SSBDM	50	0	13.43	13.58	13.53	14.7	0
Channel								
Frequency (MHz)								
5	QPSK	1	0	13.55	13.58	13.59	14.7	0
5	QPSK	1	12	13.56	13.46	13.34	14.7	0
5	QPSK	1	24	13.52	13.53	13.38	14.7	0
5	QPSK	12	0	13.55	13.65	13.58	14.7	0
5	QPSK	12	7	13.45	13.44	13.46	14.7	0
5	QPSK	12	13	13.46	13.49	13.34	14.7	0
5	QPSK	25	0	13.41	13.67	13.43	14.7	0
5	HQDM	1	0	13.60	13.45	13.33	14.7	0
5	HQDM	1	12	13.44	13.59	13.38	14.7	0
5	HQDM	1	24	13.40	13.49	13.34	14.7	0
5	HQDM	12	0	13.46	13.67	13.50	14.7	0
5	HQDM	12	7	13.47	13.64	13.46	14.7	0
5	HQDM	12	13	13.40	13.63	13.45	14.7	0
5	HQDM	25	0	13.44	13.63	13.47	14.7	0
5	HQDM	25	0	13.46	13.63	13.45	14.7	0
5	HQDM	1	12	13.53	13.44	13.33	14.7	0
5	HQDM	1	24	13.44	13.58	13.35	14.7	0
5	HQDM	12	0	13.43	13.61	13.38	14.7	0
5	HQDM	12	7	13.44	13.58	13.37	14.7	0
5	HQDM	12	13	13.46	13.49	13.36	14.7	0
5	HQDM	25	0	13.46	13.50	13.41	14.7	0
5	HQDM	25	0	13.46	13.57	13.37	14.7	0
5	HQDM	1	12	13.49	13.46	13.49	14.7	0
5	SSBDM	1	0	13.51	13.45	13.34	14.7	0
5	SSBDM	12	0	13.48	13.52	13.32	14.7	0
5	SSBDM	12	7	13.57	13.42	13.32	14.7	0
5	SSBDM	12	13	13.49	13.56	13.37	14.7	0
5	SSBDM	25	0	13.44	13.59	13.44	14.7	0
Channel								
Frequency (MHz)								
3	QPSK	1	0	13.55	13.58	13.54	14.7	0
3	QPSK	1	8	13.57	13.46	13.33	14.7	0
3	QPSK	1	14	13.42	13.45	13.32	14.7	0
3	QPSK	8	0	13.56	13.64	13.53	14.7	0
3	QPSK	8	4	13.40	13.46	13.36	14.7	0
3	QPSK	8	7	13.43	13.57	13.39	14.7	0
3	QPSK	16	0	13.47	13.47	13.52	14.7	0
3	HQDM	1	0	13.52	13.47	13.42	14.7	0
3	HQDM	1	8	13.52	13.59	13.39	14.7	0
3	HQDM	1	14	13.50	13.61	13.32	14.7	0
3	HQDM	8	0	13.42	13.45	13.43	14.7	0
3	HQDM	8	4	13.56	13.54	13.50	14.7	0
3	HQDM	8	7	13.44	13.52	13.42	14.7	0
3	HQDM	16	0	13.43	13.52	13.43	14.7	0
3	HQDM	1	0	13.45	13.62	13.46	14.7	0
3	HQDM	1	8	13.50	13.49	13.30	14.7	0
3	HQDM	1	14	13.53	13.65	13.48	14.7	0
3	HQDM	8	4	13.46	13.49	13.36	14.7	0
3	HQDM	8	7	13.49	13.47	13.46	14.7	0
3	HQDM	16	0	13.44	13.58	13.33	14.7	0
3	SSBDM	1	0	13.58	13.53	13.30	14.7	0
3	SSBDM	8	0	13.47	13.47	13.40	14.7	0
3	SSBDM	8	4	13.51	13.42	13.41	14.7	0
3	SSBDM	8	7	13.51	13.52	13.48	14.7	0
3	SSBDM	16	0	13.50	13.54	13.40	14.7	0
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	13.59	13.67			



Band 38_Ant 2													
BW (MHz)	Modulation	RB Size	RB Count	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turnup Int. (sec)	MRR (dB)					
Channels				37850	38000	38150	Turnup Int. (sec)						MRR (dB)
Frequency (MHz)				2977.5	2992.5	3007.5							
20	QPSK	1	0	21.00	21.05	20.95							
20	QPSK	1	49	20.94	20.95	20.96	22	0					
20	QPSK	1	99	20.88	20.90	20.92							
20	QPSK	50	0	20.96	21.02	20.93							
20	QPSK	50	24	20.92	20.92	20.93	22	0					
20	QPSK	50	50	20.85	20.88	20.92							
20	QPSK	100	0	20.87	20.92	20.78							
20	16QAM	1	0	20.94	20.96	20.96	22	0					
20	16QAM	1	49	20.91	20.92	20.93							
20	16QAM	1	99	20.84	21.00	20.89							
20	16QAM	50	0	20.85	20.92	20.91							
20	16QAM	50	24	20.91	20.91	20.91	22	0					
20	16QAM	50	50	20.76	20.92	20.74							
20	16QAM	100	0	20.88	20.88	20.82							
20	16QAM	100	24	20.87	20.89	20.92							
20	64QAM	1	49	20.83	20.85	20.86	22	0					
20	64QAM	1	99	20.81	20.85	20.73							
20	64QAM	50	0	20.81	20.93	20.85							
20	64QAM	50	24	20.85	20.81	20.78	22	0					
20	64QAM	50	50	20.70	20.79	20.73							
20	256QAM	1	0	20.76	20.89	20.77							
20	256QAM	1	0	19.37	19.39	19.20							
20	256QAM	1	49	19.34	19.40	19.24	20	2					
20	256QAM	1	99	19.22	19.28	19.21							
20	256QAM	50	0	19.15	19.28	19.17							
20	256QAM	50	24	19.20	19.21	19.21	20	2					
20	256QAM	50	50	19.24	19.28	19.18							
20	256QAM	100	0	19.28	19.38	19.15							
20	256QAM	100	0	18.28	18.30	18.22							
Channels				37875	38000	38150	Turnup Int. (sec)						MRR (dB)
Frequency (MHz)				2977.5	2992.5	3007.5							
18	QPSK	1	0	20.96	21.01	20.82							
18	QPSK	1	37	20.79	20.81	20.87	22	0					
18	QPSK	1	74	20.81	20.82	20.81							
18	QPSK	36	0	20.92	20.90	20.83							
18	QPSK	36	20	20.91	20.78	20.68	22	0					
18	QPSK	36	36	20.78	20.75	20.71							
18	QPSK	75	0	20.73	20.91	20.76							
18	16QAM	1	0	20.89	20.83	20.66	22	0					
18	16QAM	1	74	20.84	20.81	20.81							
18	16QAM	1	74	20.82	21.01	20.75							
18	16QAM	36	0	20.71	20.91	20.85							
18	16QAM	36	20	20.81	20.78	20.68	22	0					
18	16QAM	36	36	20.67	20.81	20.61							
18	16QAM	75	0	20.79	20.78	20.74							
18	64QAM	1	74	20.86	20.83	20.82							
18	64QAM	1	74	20.84	20.86	20.82							
18	64QAM	1	37	20.77	20.83	20.72							
18	64QAM	1	74	20.81	20.82	20.84							
18	64QAM	36	0	20.53	20.84	20.71							
18	64QAM	36	20	20.82	20.70	20.74							
18	64QAM	36	39	20.71	20.72	20.68	22	0					
18	64QAM	75	0	20.81	20.78	20.81							
18	256QAM	1	0	19.06	19.25	19.14							
18	256QAM	1	37	19.21	19.32	19.21	20	2					
18	256QAM	1	74	19.18	19.26	19.18							
18	256QAM	36	0	19.09	19.15	19.14							
18	256QAM	36	39	19.09	19.32	19.10	20	2					
18	256QAM	75	0	19.20	19.25	19.20							
Channels				37860	38000	38240	Turnup Int. (sec)						MRR (dB)
Frequency (MHz)				2977.5	2992.5	3007.5							
10	QPSK	1	0	20.98	20.97	20.79							
10	QPSK	1	25	20.88	20.82	20.82	22	0					
10	QPSK	1	25	20.84	20.84	20.84							
10	QPSK	25	0	20.81	20.87	20.81							
10	QPSK	25	12	20.82	20.79	20.81	22	0					
10	QPSK	25	12	20.84	20.71	20.81							
10	QPSK	50	0	20.78	20.79	20.78							
10	16QAM	1	0	20.80	20.90	20.73	22	0					
10	16QAM	1	49	20.85	20.86	20.86							
10	16QAM	1	49	20.85	20.98	20.78							
10	16QAM	25	0	20.81	20.80	20.89							
10	16QAM	25	12	20.90	20.91	20.87	22	0					
10	16QAM	25	25	20.81	20.80	20.87							
10	16QAM	50	0	20.84	20.79	20.78							
10	16QAM	50	0	20.83	20.78	20.73							
10	64QAM	1	49	20.83	20.87	20.88	22	0					
10	64QAM	1	25	20.75	20.83	20.84							
10	64QAM	1	49	20.87	20.81	20.87							
10	64QAM	25	0	20.86	20.89	20.77							
10	64QAM	25	12	20.80	20.87	20.84	22	0					
10	64QAM	25	25	20.74	20.76	20.73							
10	256QAM	1	0	19.14	19.18	19.08							
10	256QAM	1	25	19.33	19.32	19.27	20	2					
10	256QAM	1	49	19.20	19.22	19.14							
10	256QAM	25	0	19.01	19.25	19.13							
10	256QAM	25	12	19.35	19.22	19.11							
10	256QAM	25	25	19.19	19.20	19.24	20	2					
10	256QAM	50	0	19.19	19.30	19.27							
Channels				37875	38000	38240	Turnup Int. (sec)						MRR (dB)
Frequency (MHz)				2977.5	2992.5	3007.5							
5	QPSK	1	0	20.95	21.00	20.94							
5	QPSK	1	12	20.79	20.84	20.84	22	0					
5	QPSK	1	24	20.81	20.86	20.86							
5	QPSK	12	0	20.86	21.00	20.94							
5	QPSK	12	7	20.82	20.79	20.68	22	0					
5	QPSK	12	7	20.78	20.82	20.73							
5	QPSK	25	0	20.75	20.77	20.71							
5	16QAM	1	0	20.88	20.93	20.73	22	0					
5	16QAM	1	12	20.92	20.76	20.82							
5	16QAM	1	24	20.89	21.00	20.78							
5	16QAM	12	0	20.76	20.89	20.85							
5	16QAM	12	7	20.89	20.87	20.72	22	0					
5	16QAM	12	13	20.73	20.87	20.83							
5	16QAM	25	0	20.81	20.72	20.68							
5	16QAM	25	0	20.74	20.85	20.81							
5	64QAM	1	12	20.81	20.89	20.89	22	0					
5	64QAM	1	24	20.83	20.84	20.82							
5	64QAM	12	0	20.80	20.80	20.74							
5	64QAM	12	7	20.83	20.73	20.80	22	0					
5	64QAM	12	13	20.71	20.89	20.89							
5	64QAM	25	0	20.85	20.88	20.89							
5	256QAM	1	0	19.09	19.16	19.08							
5	256QAM	1	12	19.21	19.31	19.20	20	2					
5	256QAM	1	24	19.14	19.22	19.08							
5	256QAM	12	0	19.07	19.19	19.12							
5	256QAM	12	7	19.26	19.22	19.17							
5	256QAM	12	13	19.13	19.33	19.13	20	2					
5	256QAM	25	0	19.27	19.31	19.24							

Band 38_Ant 1													
BW (MHz)	Modulation	RB Size	RB Count	Power Low Ch / Freq	Power Mids Ch / Freq	Power High Ch / Freq	Turnup Int. (sec)	MRR (dB)					
Channels				37860	38000	38150	Turnup Int. (sec)						MRR (dB)
Frequency (MHz)				2977.5	2992.5	3007.5							
20	QPSK	1	0	19.30	19.37	19.36							
20	QPSK	1	49	19.46	19.38	19.39	17.3	0					
20	QPSK	1	99	19.33	19.32	19.41							
20	QPSK	50	0	19.30	19.32	19.39							
20	QPSK	50	24	19.42	19.38	19.50	17.3	0					
20	QPSK	50	50	19.35	19.35	19.46							
20	QPSK	100	0	19.31	19.30	19.38							
20	16QAM	1	0	19.36	19.33	19.51	17.3	0					
20	16QAM	1	49	19.47	19.38	19.40							
20	16QAM	1	99	19.34	19.30	19.40							
20	16QAM	50	0	19.36	19.44	19.40							
20	16QAM	50	24	19.38	19.32	19.37	17.3	0					
20	16QAM	50	50	19.47	19.46	19.39							
20	16QAM	100	0	19.45									



Band 41_Ant 1											
BW (MHz)	Modulation	RB	RB Offset	Power Low Ch / Freq.	Power Low Med Ch / Freq.	Power Low High Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Turn-up (dB)	MFR (dB)
Channel											
Frequency (MHz)				3970	4016	4062	4108	4154			
20	QPSK	1	0	16.65	16.66	16.70	16.67	16.66		17.3	0
20	QPSK	1	49	16.67	16.67	16.64	16.54	16.53			
20	QPSK	1	99	16.63	16.47	16.68	16.52	16.51			
20	QPSK	50	0	16.62	16.59	16.64	16.61	16.61			
20	QPSK	50	24	16.57	16.54	16.57	16.55	16.56		17.3	0
20	QPSK	50	50	16.59	16.59	16.59	16.59	16.59			
20	QPSK	100	0	16.60	16.54	16.62	16.61	16.58			
20	HQAM	1	0	16.63	16.48	16.69	16.59	16.55		17.3	0
20	HQAM	1	49	16.62	16.47	16.68	16.51	16.49			
20	HQAM	50	0	16.60	16.59	16.63	16.58	16.52			
20	HQAM	50	24	16.57	16.52	16.57	16.57	16.55		17.3	0
20	HQAM	50	50	16.58	16.59	16.59	16.59	16.51			
20	HQAM	100	0	16.61	16.50	16.57	16.48	16.51			
20	HQAM	100	0	16.59	16.56	16.55	16.51	16.48			
20	HQAM	100	49	16.60	16.59	16.55	16.54	16.54		17.3	0
20	HQAM	50	0	16.60	16.59	16.63	16.48	16.44			
20	HQAM	50	24	16.53	16.52	16.57	16.47	16.59		17.3	0
20	HQAM	50	50	16.58	16.57	16.57	16.49	16.55			
20	HQAM	100	0	16.59	16.56	16.55	16.51	16.48			
20	HQAM	100	49	16.60	16.59	16.55	16.54	16.54		17.3	0
20	HQAM	50	0	16.58	16.47	16.69	16.52	16.51			
20	HQAM	50	24	16.58	16.56	16.59	16.51	16.52		17.3	0
20	HQAM	50	50	16.62	16.59	16.58	16.50	16.60			
20	HQAM	100	0	16.54	16.48	16.60	16.50	16.51		17.3	0
20	HQAM	100	0	16.59	16.56	16.55	16.51	16.48			
20	HQAM	100	49	16.58	16.48	16.69	16.47	16.47		17.3	0
Channel											
Frequency (MHz)				4063	4109	4155	4201	4247			
15	QPSK	1	0	16.67	16.64	16.67	16.57	16.64			
15	QPSK	1	37	16.52	16.43	16.59	16.48	16.51		17.3	0
15	QPSK	1	74	16.53	16.59	16.60	16.59	16.59			
15	QPSK	36	0	16.48	16.49	16.52	16.51	16.51			
15	QPSK	36	20	16.50	16.51	16.50	16.45	16.48		17.3	0
15	QPSK	36	39	16.51	16.52	16.51	16.46	16.49			
15	QPSK	75	0	16.55	16.40	16.54	16.52	16.50			
15	HQAM	1	0	16.51	16.36	16.59	16.58	16.52		17.3	0
15	HQAM	1	37	16.52	16.53	16.52	16.49	16.45			
15	HQAM	1	74	16.58	16.51	16.52	16.51	16.43			
15	HQAM	36	0	16.57	16.52	16.41	16.54	16.47		17.3	0
15	HQAM	36	20	16.52	16.53	16.59	16.36	16.54			
15	HQAM	36	39	16.48	16.42	16.53	16.44	16.44			
15	HQAM	75	0	16.42	16.48	16.52	16.48	16.45			
15	HQAM	75	0	16.42	16.48	16.52	16.48	16.45			
15	HQAM	75	20	16.50	16.49	16.49	16.41	16.52		17.3	0
15	HQAM	75	39	16.49	16.43	16.56	16.41	16.59			
15	HQAM	36	20	16.52	16.46	16.54	16.46	16.49			
15	HQAM	36	39	16.39	16.46	16.42	16.34	16.44		17.3	0
15	HQAM	36	59	16.49	16.47	16.50	16.34	16.49			
15	HQAM	75	0	16.47	16.44	16.54	16.51	16.39			
15	HQAM	75	20	16.47	16.46	16.55	16.47	16.48		17.3	0
15	HQAM	75	39	16.50	16.42	16.57	16.36	16.48			
15	HQAM	36	0	16.40	16.41	16.49	16.49	16.47			
15	HQAM	36	20	16.52	16.46	16.46	16.49	16.49			
15	HQAM	36	39	16.56	16.53	16.56	16.45	16.48		17.3	0
15	HQAM	75	0	16.44	16.38	16.50	16.44	16.58			
Channel											
Frequency (MHz)				4063	4109	4155	4201	4247			
10	QPSK	1	0	16.61	16.58	16.58	16.49	16.62			
10	QPSK	1	25	16.45	16.47	16.54	16.51	16.40		17.3	0
10	QPSK	1	49	16.51	16.49	16.59	16.54	16.50			
10	QPSK	25	0	16.48	16.48	16.56	16.48	16.59			
10	QPSK	25	12	16.56	16.46	16.48	16.46	16.48		17.3	0
10	QPSK	25	25	16.52	16.46	16.46	16.46	16.46			
10	QPSK	50	0	16.56	16.41	16.50	16.53	16.58			
10	HQAM	1	0	16.56	16.38	16.55	16.45	16.42		17.3	0
10	HQAM	1	49	16.58	16.53	16.47	16.40	16.46			
10	HQAM	25	0	16.52	16.54	16.43	16.53	16.40			
10	HQAM	25	12	16.50	16.49	16.49	16.32	16.41		17.3	0
10	HQAM	25	25	16.45	16.48	16.50	16.48	16.38			
10	HQAM	50	0	16.38	16.42	16.50	16.42	16.41			
10	HQAM	1	0	16.44	16.51	16.49	16.49	16.49			
10	HQAM	1	25	16.58	16.38	16.41	16.47	16.48		17.3	0
10	HQAM	1	49	16.54	16.37	16.52	16.44	16.49			
10	HQAM	25	0	16.52	16.46	16.53	16.42	16.47			
10	HQAM	25	12	16.52	16.46	16.46	16.44	16.51		17.3	0
10	HQAM	25	25	16.39	16.46	16.58	16.37	16.53			
10	HQAM	50	0	16.54	16.55	16.59	16.47	16.46			
10	HQAM	1	0	16.49	16.40	16.55	16.44	16.47		17.3	0
10	HQAM	1	25	16.53	16.42	16.44	16.49	16.55			
10	HQAM	1	49	16.54	16.54	16.57	16.38	16.47			
10	HQAM	25	0	16.50	16.57	16.49	16.45	16.54		17.3	0
10	HQAM	25	12	16.47	16.38	16.47	16.54	16.49			
10	HQAM	25	25	16.53	16.54	16.49	16.49	16.47			
10	HQAM	50	0	16.48	16.53	16.58	16.43	16.53		17.3	0
Channel											
Frequency (MHz)				4063	4109	4155	4201	4247			
5	QPSK	1	0	16.51	16.47	16.58	16.50	16.64			
5	QPSK	1	12	16.42	16.46	16.55	16.48	16.46		17.3	0
5	QPSK	1	24	16.53	16.41	16.53	16.48	16.45			
5	QPSK	12	0	16.60	16.50	16.56	16.46	16.60			
5	QPSK	12	7	16.52	16.44	16.50	16.53	16.52		17.3	0
5	QPSK	12	13	16.49	16.35	16.51	16.45	16.50			
5	QPSK	25	0	16.45	16.48	16.60	16.48	16.47			
5	HQAM	1	0	16.58	16.32	16.58	16.48	16.44		17.3	0
5	HQAM	1	12	16.53	16.51	16.57	16.49	16.45			
5	HQAM	1	24	16.50	16.58	16.48	16.41	16.47			
5	HQAM	12	0	16.45	16.44	16.42	16.49	16.42		17.3	0
5	HQAM	12	7	16.49	16.37	16.44	16.38	16.45			
5	HQAM	12	13	16.45	16.41	16.53	16.42	16.40			
5	HQAM	25	0	16.40	16.38	16.46	16.45	16.48			
5	HQAM	1	0	16.50	16.53	16.54	16.54	16.47			
5	HQAM	1	12	16.54	16.41	16.47	16.42	16.48		17.3	0
5	HQAM	1	24	16.30	16.48	16.52	16.41	16.62			
5	HQAM	12	0	16.48	16.53	16.53	16.54	16.57			
5	HQAM	12	7	16.48	16.38	16.43	16.44	16.45		17.3	0
5	HQAM	12	13	16.46	16.42	16.59	16.47	16.49			
5	HQAM	25	0	16.50	16.41	16.57	16.52	16.55			
5	HQAM	25	12	16.50	16.37	16.55	16.40	16.40		17.3	0
5	HQAM	25	13	16.43	16.43	16.43	16.54	16.49			
5	HQAM	12	0	16.44	16.34	16.59	16.39	16.51			
5	HQAM	12	7	16.43	16.43	16.43	16.54	16.49			
5	HQAM	12	13	16.50	16.42	16.59	16.48	16.48		17.3	0
5</											



Band 42_Ant 3												
BW	Modulation	RB Size	RB Offset	Power Lch / Freq	Power Mch Ch / Freq	Power Hch / Freq	Turnup	Time Int.	MFR	RB		
Channel												
Frequency MHz												
				42180	42000	42020						
20	QPSK	1	0	18.30	18.40	18.31						
20	QPSK	1	49	18.20	18.34	18.27				19.6	0	
20	QPSK	50	0	18.22	18.32	18.25						
20	QPSK	50	0	18.25	18.35	18.25						
20	QPSK	50	24	18.20	18.30	18.25				19.6	0	
20	QPSK	100	0	18.22	18.33	18.24						
20	QPSK	100	0	18.26	18.33	18.24						
20	16QAM	1	0	18.22	18.33	18.24				19.6	0	
20	16QAM	1	49	18.21	18.33	18.24						
20	16QAM	1	99	18.29	18.27	18.24						
20	16QAM	50	0	18.21	18.31	18.27						
20	16QAM	50	24	18.19	18.30	18.25				19.6	0	
20	16QAM	100	0	18.27	18.36	18.22						
20	16QAM	100	0	18.18	18.30	18.24						
20	64QAM	1	49	18.21	18.25	18.26				19.6	0	
20	64QAM	1	99	18.27	18.32	18.33						
20	64QAM	50	24	17.71	17.75	17.70				19	0.8	
20	64QAM	50	30	17.74	17.71	17.74						
20	64QAM	100	0	17.63	17.76	17.74						
20	256QAM	1	0	15.68	15.66	15.51						
20	256QAM	1	49	15.60	15.55	15.46				17	2.6	
20	256QAM	1	99	15.51	15.58	15.48						
20	256QAM	50	0	15.67	15.68	15.58						
20	256QAM	50	24	15.60	15.69	15.61				17	2.6	
20	256QAM	50	50	15.54	15.62	15.55						
20	256QAM	100	0	15.45	15.59	15.44						
Channel												
Frequency MHz												
				42185	42000	42020	Time Int.	MFR	RB			
16	QPSK	1	0	18.19	18.32	18.30				19.6	0	
16	QPSK	1	37	18.08	18.28	18.16						
16	QPSK	36	0	18.15	18.30	18.22				19.3	0	
16	QPSK	36	0	18.25	18.32	18.22						
16	QPSK	36	20	18.09	18.26	18.13				19.6	0	
16	QPSK	36	39	18.17	18.29	18.21						
16	QPSK	75	0	18.18	18.24	18.16						
16	16QAM	1	0	18.21	18.25	18.23				19.6	0	
16	16QAM	1	37	18.16	18.34	18.24						
16	16QAM	1	74	18.27	18.17	18.16						
16	16QAM	36	0	18.12	18.20	18.28				19.6	0	
16	16QAM	36	20	18.08	18.20	18.24						
16	16QAM	36	39	18.26	18.31	18.16						
16	16QAM	75	0	18.03	18.29	18.23						
16	64QAM	1	74	18.26	18.25	18.18				19.6	0	
16	64QAM	1	37	18.08	18.25	18.27						
16	64QAM	1	74	18.26	18.25	18.18						
16	64QAM	36	20	17.67	17.65	17.59				19	0.8	
16	64QAM	36	20	17.66	17.76	17.72						
16	64QAM	36	39	17.70	17.68	17.64						
16	64QAM	75	0	17.69	17.61	17.68				17	2.6	
16	256QAM	1	0	15.50	15.55	15.41						
16	256QAM	1	37	15.45	15.46	15.35				17	2.6	
16	256QAM	1	74	15.45	15.43	15.41						
16	256QAM	36	0	15.49	15.56	15.56				17	2.6	
16	256QAM	36	20	15.60	15.65	15.69						
16	256QAM	36	39	15.47	15.60	15.42						
16	256QAM	75	0	15.42	15.48	15.39						
Channel												
Frequency MHz												
				42180	42000	42020	Time Int.	MFR	RB			
10	QPSK	1	0	18.25	18.36	18.23				19.6	0	
10	QPSK	1	25	18.16	18.32	18.14						
10	QPSK	25	0	18.15	18.30	18.22				19.3	0	
10	QPSK	25	0	18.13	18.28	18.22						
10	QPSK	25	12	18.09	18.29	18.18				19.6	0	
10	QPSK	25	24	18.13	18.17	18.12						
10	QPSK	50	0	18.14	18.23	18.12						
10	16QAM	1	0	18.13	18.19	18.31				19.6	0	
10	16QAM	1	49	18.07	18.29	18.18						
10	16QAM	1	49	18.18	18.19	18.16						
10	16QAM	25	0	18.11	18.30	18.15				19.6	0	
10	16QAM	25	12	18.13	18.29	18.19						
10	16QAM	25	25	18.16	18.34	18.18						
10	16QAM	50	0	18.17	18.26	18.27				19.6	0	
10	64QAM	1	0	18.19	18.34	18.28						
10	64QAM	1	25	18.11	18.13	18.34				19.6	0	
10	64QAM	1	49	18.22	18.31	18.30						
10	64QAM	25	0	17.65	17.63	17.70				19	0.8	
10	64QAM	25	12	17.70	17.68	17.67						
10	64QAM	25	25	17.66	17.67	17.69						
10	64QAM	50	0	17.53	17.68	17.71				17	2.6	
10	256QAM	1	0	15.52	15.52	15.40						
10	256QAM	1	25	15.36	15.47	15.28				17	2.6	
10	256QAM	1	49	15.49	15.45	15.49						
10	256QAM	25	0	15.54	15.59	15.57				17	2.6	
10	256QAM	25	12	15.60	15.63	15.59						
10	256QAM	25	25	15.43	15.53	15.46						
10	256QAM	50	0	15.44	15.45	15.35						
Channel												
Frequency MHz												
				34515	34515	34515	Time Int.	MFR	RB			
5	QPSK	1	0	18.18	18.38	18.29				19.6	0	
5	QPSK	1	12	18.19	18.32	18.12						
5	QPSK	1	24	18.08	18.23	18.15				19.3	0	
5	QPSK	12	0	18.15	18.30	18.19						
5	QPSK	12	7	18.05	18.16	18.20				19.6	0	
5	QPSK	12	13	18.16	18.19	18.15						
5	QPSK	25	0	18.24	18.22	18.18						
5	16QAM	1	0	18.17	18.28	18.33				19.6	0	
5	16QAM	1	12	18.19	18.36	18.09						
5	16QAM	1	24	18.18	18.14	18.18						
5	16QAM	12	0	18.17	18.28	18.13				19.6	0	
5	16QAM	12	7	18.11	18.24	18.19						
5	16QAM	12	13	18.19	18.24	18.20						
5	16QAM	25	0	18.10	18.23	18.24				19.6	0	
5	64QAM	1	0	18.19	18.34	18.28						
5	64QAM	1	12	18.17	18.18	18.28				19.6	0	
5	64QAM	1	24	18.21	18.29	18.21						
5	64QAM	12	0	17.66	17.68	17.65				19	0.8	
5	64QAM	12	7	17.68	17.75	17.74						
5	64QAM	12	13	17.62	17.70	17.61						
5	256QAM	1	0	15.58	15.62	15.57				17	2.6	
5	256QAM	1	12	15.38	15.47	15.27						
5	256QAM	1	24	15.44	15.57	15.33						
5	256QAM	12	0	15.59	15.55	15.49				17	2.6	
5	256QAM	12	7	15.55	15.59	15.55						
5	256QAM	12	13	15.44	15.52	15.50						
5	256QAM	25	0	15.37	15.46	15.39						

Band 42_Ant 6												
BW	Modulation	RB Size	RB Offset	Power Lch / Freq	Power Mch Ch / Freq	Power Hch / Freq	Turnup	Time Int.	MFR	RB		
Channel												
Frequency MHz												
				42180	42000	42020						
20	QPSK	1	0	23.50	23.63	23.55				24	0	
20	QPSK	1	49	23.49	23.50	23.45						
20	QPSK	50	0	23.42	23.42	23.52						
20	QPSK	50	0	23.44	23.50	23.45						
20	QPSK	50	24	23.24	23.34	23.34				24	0	
20	QPSK	100	0	23.02	23.41	23.09						
20	QPSK	100	0	23.21	23.42	23.40						
20	16QAM	1	0	23.51	23.56	23.61				24	0	
20	16QAM	1	49	23.53	23.58	23.53						
20	16QAM	1	99	23.03	23.45	23.33						
20	16QAM	50	0	23.38	23.51	23.30						
20	16QAM	50	24	23.24	23.34	23.38				24	0	
20	16QAM	100	0	23.40	23.52	23.43						
20	16QAM	100	0	23.39	23.52	23.30						
20	64QAM	1	49	23.59	23.58	23.62				24	0	
20	64QAM	1	99	23.62	23.48	23.12						
20	64QAM	50	24	22.44	22.43	22.43				23	1	
20	64QAM	50	30	22.52	22.43	22.41						
20	64QAM	100	0	22.20	22.42	22.44						
20	256QAM	1	0	19.81	19.91	19.84						
20	256QAM	1	49	19.80	19.92	19.93				21	3	
20	256QAM	1	99	20.01	20.14	20.05						
20	256QAM	50	0	19.97	20.06	19.						



n2_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1860	1860	1860			
20	PIQ BPSK	1	1	19.31	19.26	19.28			
20	PIQ BPSK	1	53	19.27	19.25	19.22	20.5	0.0	
20	PIQ BPSK	1	104	19.28	19.32	19.21			
20	PIQ BPSK	50	0	19.29	19.25	19.20	20.0	0.0	
20	PIQ BPSK	50	28	19.29	19.29	19.20	20.5	0.0	
20	PIQ BPSK	50	56	19.23	19.31	19.21			
20	PIQ BPSK	100	0	19.34	19.32	19.20	20.5	0.0	
20	QPSK	1	1	19.35	19.38	19.35			
20	QPSK	1	53	19.21	19.20	19.18	20.5	0.0	
20	QPSK	1	104	19.26	19.26	19.28			
20	QPSK	50	0	19.25	19.28	19.21	20.5	0.0	
20	QPSK	50	28	19.31	19.33	19.28	20.5	0.0	
20	QPSK	50	56	19.23	19.27	19.27	20.5	0.0	
20	QPSK	100	0	19.23	19.29	19.19			
20	BQAM	1	1	19.25	19.31	19.27	20.5	0.0	
20	BQAM	1	1	19.29	19.33	19.20	20.5	0.0	
20	ZSSBAM	1	1	19.29	19.26	19.19	20.5	0.0	
Channel									
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)	
15	QPSK	1	1	19.25	19.30	19.20	20.5	0.0	
Channel									
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	19.83	19.81	19.87	20.5	0.0	
Channel									
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	19.27	19.24	19.19	20.5	0.0	

n2_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1460	1460	1460			
20	PIQ BPSK	1	1	13.99	14.00	14.01			
20	PIQ BPSK	1	53	14.06	14.06	13.99	15.5	0.0	
20	PIQ BPSK	1	104	13.93	13.99	14.02			
20	PIQ BPSK	50	0	14.06	14.02	13.99	15.5	0.0	
20	PIQ BPSK	50	28	13.95	14.03	13.97	15.5	0.0	
20	PIQ BPSK	50	56	13.94	14.07	14.03			
20	PIQ BPSK	100	0	14.00	13.97	13.97	15.5	0.0	
20	QPSK	1	1	14.03	14.02	14.02			
20	QPSK	1	53	14.04	14.02	13.97	15.5	0.0	
20	QPSK	1	104	13.96	14.00	14.00			
20	QPSK	50	0	13.96	14.07	13.96	15.5	0.0	
20	QPSK	50	28	14.07	14.00	14.03	15.5	0.0	
20	QPSK	50	56	13.97	13.98	13.98	15.5	0.0	
20	QPSK	100	0	13.98	14.08	13.97			
20	BQAM	1	1	13.99	14.01	13.93	15.5	0.0	
20	BQAM	1	1	14.07	14.05	14.02	15.5	0.0	
20	ZSSBAM	1	1	13.96	14.07	13.97	15.5	0.0	
Channel									
Frequency (MHz)				1457.5	1480	1502.5	(dBm)	(dB)	
15	QPSK	1	1	13.93	14.11	13.90	15.5	0.0	
Channel									
Frequency (MHz)				1455	1480	1505	(dBm)	(dB)	
10	QPSK	1	1	13.99	13.98	14.02	15.5	0.0	
Channel									
Frequency (MHz)				1452.5	1480	1507.5	(dBm)	(dB)	
5	QPSK	1	1	13.99	14.02	13.99	15.5	0.0	

n2_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				1868	1868	1868			
20	PIQ BPSK	1	1	20.22	20.17	20.18			
20	PIQ BPSK	1	53	20.22	20.19	20.11	22.0	0.0	
20	PIQ BPSK	1	104	20.09	20.15	20.17			
20	PIQ BPSK	50	0	20.15	20.15	20.21	22.0	0.0	
20	PIQ BPSK	50	28	20.21	20.18	20.14	22.0	0.0	
20	PIQ BPSK	50	56	20.20	20.26	20.12			
20	PIQ BPSK	100	0	20.10	20.26	20.12	22.0	0.0	
20	QPSK	1	1	20.25	20.28	20.22			
20	QPSK	1	53	20.19	20.25	20.09	22.0	0.0	
20	QPSK	1	104	20.23	20.25	20.07			
20	QPSK	50	0	20.20	20.21	20.09	22.0	0.0	
20	QPSK	50	28	20.21	20.25	20.05	22.0	0.0	
20	QPSK	50	56	20.09	20.21	20.14	22.0	0.0	
20	QPSK	100	0	20.15	20.21	20.11			
20	BQAM	1	1	20.17	20.27	20.11	22.0	0.0	
20	BQAM	1	1	20.11	20.27	20.11	21.5	0.5	
20	ZSSBAM	1	1	18.65	18.63	18.46	19.5	2.5	
Channel									
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)	
15	QPSK	1	1	20.21	20.24	20.18	22.0	0.0	
Channel									
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	20.22	20.17	20.20	22.0	0.0	
Channel									
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	20.16	20.16	20.15	22.0	0.0	



n5_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				184	186.5	189			
30	PQ-BPSK	1	1	22.60	22.82	22.77			
30	PQ-BPSK	1	53	22.67	22.84	22.88	24.0	0.0	
30	PQ-BPSK	1	104	22.58	22.95	22.47			
30	PQ-BPSK	50	0	22.71	22.71	22.63	23.5	0.6	
30	PQ-BPSK	50	28	22.68	22.66	22.58	24.0	0.0	
30	PQ-BPSK	50	46	22.50	22.50	22.54	23.5	0.5	
30	PQ-BPSK	100	0	22.72	22.73	22.67			
30	QPSK	1	1	22.55	22.84	22.77			
30	QPSK	1	53	22.72	22.68	22.64	24.0	0.0	
30	QPSK	1	104	22.58	22.58	22.52			
30	QPSK	50	0	22.70	22.74	22.70	23.0	1.0	
30	QPSK	50	28	22.73	22.73	22.75	24.0	0.0	
30	QPSK	50	46	22.60	22.58	22.54	23.0	1.0	
30	QPSK	100	0	22.61	22.67	22.64			
30	8QAM	1	1	22.51	22.50	22.44	23.0	1.0	
30	8QAM	1	1	21.42	21.42	21.36	21.5	2.5	
30	25QAM	1	1	19.33	19.33	19.27	19.5	4.5	
Channel									
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.70	22.71	22.63	24.0	0.0	
Channel									
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.78	22.67	22.66	24.0	0.0	
Channel									
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	22.72	22.73	22.67	24.0	0.0	

n5_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				834	836.5	840			
30	PQ-BPSK	1	1	21.40	21.59	21.43			
30	PQ-BPSK	1	53	21.50	21.59	21.56	23.0	0.0	
30	PQ-BPSK	1	104	21.38	21.40	21.52			
30	PQ-BPSK	50	0	21.44	21.56	21.63	23.0	0.0	
30	PQ-BPSK	50	28	21.42	21.46	21.43	23.0	0.0	
30	PQ-BPSK	50	56	21.48	21.45	21.49	23.0	0.0	
30	PQ-BPSK	100	0	21.40	21.58	21.42			
30	QPSK	1	1	21.52	21.50	21.57			
30	QPSK	1	53	21.46	21.40	21.56	23.0	0.0	
30	QPSK	1	104	21.38	21.58	21.51			
30	QPSK	50	0	21.37	21.52	21.42	23.0	0.0	
30	QPSK	50	28	21.51	21.50	21.51	23.0	0.0	
30	QPSK	50	56	21.37	21.46	21.53	23.0	0.0	
30	QPSK	100	0	21.44	21.50	21.44			
30	16QAM	1	1	21.46	21.50	21.48	23.0	0.0	
30	8QAM	1	1	20.68	20.67	20.64	21.5	1.5	
30	25QAM	1	1	18.88	18.97	18.93	19.2	3.5	
Channel									
Frequency (MHz)				833.5	836.5	841.5			
15	QPSK	1	1	21.41	21.51	21.47	23.0	0.0	
Channel									
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	21.47	21.48	21.52	23.0	0.0	
Channel									
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	21.38	21.56	21.51	23.0	0.0	

n7_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2600	2635	2660			
40	PQ-BPSK	1	1	20.23	20.28	20.19			
40	PQ-BPSK	1	108	20.11	20.20	20.24	21.0	0.0	
40	PQ-BPSK	1	214	20.22	20.18	20.26			
40	PQ-BPSK	108	0	20.24	20.28	20.23	21.0	0.0	
40	PQ-BPSK	108	54	20.11	20.24	20.15	21.0	0.0	
40	PQ-BPSK	108	108	20.11	20.20	20.13	21.0	0.0	
40	PQ-BPSK	216	0	20.14	20.26	20.18			
40	QPSK	1	1	20.25	20.23	20.20			
40	QPSK	1	108	20.11	20.28	20.20	21.0	0.0	
40	QPSK	1	214	20.17	20.20	20.19			
40	QPSK	108	0	20.20	20.19	20.14	21.0	0.0	
40	QPSK	108	54	20.21	20.20	20.22	21.0	0.0	
40	QPSK	108	108	20.18	20.27	20.26	21.0	0.0	
40	QPSK	216	0	20.19	20.26	20.22			
40	16QAM	1	1	20.10	20.22	20.14	21.0	0.0	
40	8QAM	1	1	20.18	20.26	20.18	21.0	0.0	
40	25QAM	1	1	19.84	19.93	19.80	21.0	0.0	
Channel									
Frequency (MHz)				2590.0	2595.0	2600.0			
Frequency (MHz)				2515	2535	2550			
30	QPSK	1	1	20.21	20.18	20.18	21.0	0.0	
Channel									
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	20.10	20.20	20.17	21.0	0.0	
Channel									
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	20.11	20.22	20.19	21.0	0.0	
Channel									
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	20.19	20.27	20.22	21.0	0.0	
Channel									
Frequency (MHz)				2408	2535	2660			
10	QPSK	1	1	20.23	20.23	20.26	21.0	0.0	
Channel									
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	20.16	20.23	20.18	21.0	0.0	



n7_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2930	2930	2930				
40	PQ-BPSK	1	1	18.05	18.19	18.15				
40	PQ-BPSK	1	108	18.11	18.18	18.15	17.0	0.0		
40	PQ-BPSK	1	214	18.15	18.24	18.17				
40	PQ-BPSK	108	0	18.07	18.27	18.18	17.0	0.0		
40	PQ-BPSK	108	54	18.07	18.26	18.08	17.0	0.0		
40	PQ-BPSK	108	108	18.17	18.25	18.15				
40	PQ-BPSK	216	0	18.09	18.18	18.12	17.0	0.0		
40	QPSK	1	1	18.20	18.20	18.22				
40	QPSK	1	108	18.19	18.23	18.20	17.0	0.0		
40	QPSK	1	214	18.18	18.19	18.20				
40	QPSK	108	0	18.12	18.19	18.07	17.0	0.0		
40	QPSK	108	54	18.13	18.23	18.16	17.0	0.0		
40	QPSK	108	108	18.13	18.16	18.16	17.0	0.0		
40	QPSK	216	0	18.13	18.21	18.14	17.0	0.0		
40	8QAM	1	1	18.14	18.14	18.20	17.0	0.0		
40	8QAM	1	1	18.18	18.19	18.08	17.0	0.0		
40	25QAM	1	1	18.18	18.20	18.11	17.0	0.0		
Channel										
Frequency (MHz)				2515	2535	2555				
30	QPSK	1	1	18.15	18.19	18.20	17.0	0.0		
Channel										
Frequency (MHz)				2515.5	2535	2557.5				
25	QPSK	1	1	18.48	18.41	18.40	17.0	0.0		
Channel										
Frequency (MHz)				2510	2535	2565				
20	QPSK	1	1	18.13	18.37	18.32	17.0	0.0		
Channel										
Frequency (MHz)				30150	30150	30250	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2507.5	2535	2562.5				
18	QPSK	1	1	18.43	18.20	18.18	17.0	0.0		
Channel										
Frequency (MHz)				30100	30100	31300	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	1	18.37	18.24	18.10	17.0	0.0		
Channel										
Frequency (MHz)				30050	30200	31300	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	1	18.18	18.18	18.12	17.0	0.0		

n7_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				56400	56700	57000				
40	PQ-BPSK	1	1	17.48	17.51	17.47				
40	PQ-BPSK	1	108	17.55	17.53	17.48	19.0	0.0		
40	PQ-BPSK	1	214	17.52	17.45	17.50				
40	PQ-BPSK	108	0	17.53	17.56	17.47	19.0	0.0		
40	PQ-BPSK	108	54	17.48	17.55	17.57	19.0	0.0		
40	PQ-BPSK	108	108	17.57	17.40	17.50				
40	PQ-BPSK	216	0	17.46	17.58	17.45	19.0	0.0		
40	QPSK	1	1	17.50	17.50	17.52				
40	QPSK	1	108	17.48	17.46	17.44	19.0	0.0		
40	QPSK	1	214	17.45	17.58	17.56				
40	QPSK	108	0	17.50	17.46	17.45	19.0	0.0		
40	QPSK	108	54	17.55	17.56	17.55	19.0	0.0		
40	QPSK	108	108	17.53	17.52	17.44	19.0	0.0		
40	QPSK	216	0	17.54	17.55	17.48	19.0	0.0		
40	8QAM	1	1	17.48	17.48	17.48	19.0	0.0		
40	8QAM	1	1	17.50	17.52	17.45	19.0	0.0		
40	25QAM	1	1	17.40	17.51	17.58	19.0	0.0		
Channel										
Frequency (MHz)				5615	5635	5655				
30	QPSK	1	1	17.51	17.45	17.53	19.0	0.0		
Channel										
Frequency (MHz)				5619.5	5635	5657.5				
25	QPSK	1	1	17.52	17.59	17.59	19.0	0.0		
Channel										
Frequency (MHz)				5610	5635	5660	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	17.40	17.52	17.49	19.0	0.0		
Channel										
Frequency (MHz)				5615	5635	5662.5				
16	QPSK	1	1	17.44	17.59	17.51	19.0	0.0		
Channel										
Frequency (MHz)				56100	56700	51500	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				5605	5635	5665				
10	QPSK	1	1	17.47	17.59	17.43	19.0	0.0		
Channel										
Frequency (MHz)				56050	56700	51500	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				5602.5	5635	5667.5				
5	QPSK	1	1	17.40	17.51	17.44	19.0	0.0		

n66_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				1930	1945	1960				
40	PQ-BPSK	1	1	22.81	22.73	22.57				
40	PQ-BPSK	1	108	22.75	22.68	22.51	24.0	0.0		
40	PQ-BPSK	1	214	22.78	22.72	22.58				
40	PQ-BPSK	108	0	22.89	22.64	22.49	23.5	0.5		
40	PQ-BPSK	108	54	22.85	22.58	22.43	24.0	0.0		
40	PQ-BPSK	108	108	22.71	22.61	22.43				
40	PQ-BPSK	216	0	22.73	22.66	22.47	23.5	0.5		
40	QPSK	1	1	22.71	22.65	22.57				
40	QPSK	1	108	22.76	22.71	22.58	24.0	0.0		
40	QPSK	1	214	22.76	22.68	22.53				
40	QPSK	108	0	22.70	22.70	22.55	23.0	1.0		
40	QPSK	108	54	22.75	22.65	22.55	24.0	0.0		
40	QPSK	108	108	22.73	22.64	22.44	23.0	1.0		
40	QPSK	216	0	22.84	22.70	22.58				
40	8QAM	1	1	22.78	22.68	22.48	23.0	1.0		
40	8QAM	1	1	21.75	21.86	21.50	22.0	2.0		
40	25QAM	1	1	20.34	20.28	20.08	21.0	3.0		
Channel										
Frequency (MHz)				19500	19500	19500	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	22.71	22.67	22.48	24.0	0.0		
Channel										
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	1	22.70	22.71	22.43	24.0	0.0		
Channel										
Frequency (MHz)				1717.5	1745	1772.5				
16	QPSK	1	1	22.69	22.63	22.46	24.0	0.0		
Channel										
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	22.79	22.72	22.44	24.0	0.0		
Channel										
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	1	22.75	22.68	22.42	24.0	0.0		



n66_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				1745	1745	1745	
40	PLO-BPSK	1	1	14.20	14.20	14.31	
40	PLO-BPSK	1	108	14.20	14.37	14.20	15.5
40	PLO-BPSK	1	214	14.20	14.32	14.20	15.5
40	PLO-BPSK	108	0	14.33	14.35	14.21	15.5
40	PLO-BPSK	108	54	14.32	14.36	14.29	15.5
40	PLO-BPSK	108	108	14.30	14.33	14.26	15.5
40	PLO-BPSK	216	0	14.31	14.32	14.32	15.5
40	QPSK	1	1	14.20	14.38	14.33	
40	QPSK	1	108	14.20	14.27	14.26	15.5
40	QPSK	1	214	14.24	14.32	14.19	15.5
40	QPSK	108	0	14.20	14.26	14.29	15.5
40	QPSK	108	54	14.23	14.35	14.31	15.5
40	QPSK	108	108	14.24	14.33	14.27	15.5
40	QPSK	216	0	14.25	14.31	14.21	15.5
40	16QAM	1	1	14.20	14.25	14.18	15.5
40	16QAM	1	1	14.20	14.26	14.22	15.5
40	256QAM	1	1	14.20	14.31	14.30	15.5
Channel							
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	14.20	14.26	14.23	15.5
Channel							
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	14.22	14.33	14.29	15.5
Channel							
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	1	14.25	14.26	14.30	15.5
Channel							
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	14.33	14.29	14.27	15.5
Channel							
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	14.20	14.29	14.18	15.0

n66_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				1930	1945	1945	
40	PLO-BPSK	1	1	19.35	19.51	19.35	
40	PLO-BPSK	1	108	19.40	19.43	19.46	21.0
40	PLO-BPSK	1	214	19.41	19.52	19.40	21.0
40	PLO-BPSK	108	0	19.41	19.53	19.48	21.0
40	PLO-BPSK	108	54	19.34	19.45	19.37	21.0
40	PLO-BPSK	108	108	19.42	19.47	19.39	21.0
40	PLO-BPSK	216	0	19.33	19.49	19.43	21.0
40	QPSK	1	1	19.40	19.55	19.50	
40	QPSK	1	108	19.37	19.50	19.40	21.0
40	QPSK	1	214	19.47	19.54	19.46	21.0
40	QPSK	108	0	19.35	19.43	19.35	21.0
40	QPSK	108	54	19.42	19.51	19.45	21.0
40	QPSK	108	108	19.39	19.50	19.41	21.0
40	QPSK	216	0	19.36	19.41	19.27	21.0
40	16QAM	1	1	19.47	19.51	19.48	21.0
40	16QAM	1	1	19.45	19.44	19.48	21.0
40	256QAM	1	1	19.34	19.55	19.50	19.5
Channel							
Frequency (MHz)				1920	1945	1970	
30	QPSK	1	1	19.34	19.40	19.25	21.0
Channel							
Frequency (MHz)				1920	1945	1970	
20	QPSK	1	1	19.37	19.51	19.36	21.0
Channel							
Frequency (MHz)				1917.5	1945	1972.5	
15	QPSK	1	1	19.43	19.42	19.43	21.0
Channel							
Frequency (MHz)				1915	1945	1975	
10	QPSK	1	1	19.39	19.51	19.42	21.0
Channel							
Frequency (MHz)				1912.5	1945	1977.5	
5	QPSK	1	1	19.46	19.52	19.40	21.0



n38_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				2490	2490	2490	
40	Pi2 BPSK	1	1	18.98	18.98	18.98	
40	Pi2 BPSK	1	53	18.88	19.10	18.88	20.0
40	Pi2 BPSK	1	104	19.01	18.94	19.01	
40	Pi2 BPSK	50	0	18.97	19.11	18.98	20.0
40	Pi2 BPSK	50	28	18.97	18.99	18.92	20.0
40	Pi2 BPSK	50	56	18.99	19.05	18.94	20.0
40	Pi2 BPSK	100	0	18.99	19.03	18.94	
40	QPSK	1	1	18.95	19.02	18.92	
40	QPSK	1	53	18.91	18.97	18.99	20.0
40	QPSK	1	104	18.88	19.05	18.89	
40	QPSK	50	0	18.91	19.02	18.93	
40	QPSK	50	28	18.91	18.98	18.92	20.0
40	QPSK	50	56	18.88	18.98	18.99	
40	QPSK	100	0	18.99	19.03	18.97	20.0
40	16QAM	1	1	18.97	18.98	18.91	20.0
40	16QAM	1	1	19.02	19.01	18.92	20.0
40	256QAM	1	1	18.93	19.09	18.88	20.0
Channel							
Frequency (MHz)				2585	2595	2605	
30	QPSK	1	1	18.92	19.04	18.88	20.0
Channel							
Frequency (MHz)				2590	2595	2610	
20	QPSK	1	1	18.93	19.01	18.94	20.0
Channel							
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	1	18.90	18.87	18.96	20.0
Channel							
Frequency (MHz)				2610	2610	2610	
10	QPSK	1	1	18.87	18.98	18.94	20.0

n38_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				2490	2490	2490	
40	Pi2 BPSK	1	1	15.04	15.14	15.09	
40	Pi2 BPSK	1	53	15.01	15.03	15.08	16.0
40	Pi2 BPSK	1	104	15.09	15.13	15.17	
40	Pi2 BPSK	50	0	15.04	15.16	15.19	16.0
40	Pi2 BPSK	50	28	15.05	15.20	15.07	16.0
40	Pi2 BPSK	50	56	15.09	15.09	15.13	16.0
40	Pi2 BPSK	100	0	15.05	15.09	15.10	
40	QPSK	1	1	15.20	15.25	15.19	
40	QPSK	1	53	15.09	15.16	15.09	16.0
40	QPSK	1	104	15.18	15.18	15.07	
40	QPSK	50	0	15.08	15.18	15.04	
40	QPSK	50	28	15.11	15.21	15.11	16.0
40	QPSK	50	56	15.04	15.13	15.06	
40	QPSK	100	0	15.04	15.12	15.07	16.0
40	16QAM	1	1	15.16	15.14	15.04	16.0
40	16QAM	1	1	15.08	15.06	15.01	16.0
40	256QAM	1	1	15.14	15.04	15.05	16.0
Channel							
Frequency (MHz)				2590	2590	2590	
30	QPSK	1	1	14.93	15.14	15.02	16.0
Channel							
Frequency (MHz)				2595	2595	2610	
20	QPSK	1	1	14.99	15.17	15.01	16.0
Channel							
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	1	14.92	15.17	15.01	16.0
Channel							
Frequency (MHz)				2610	2610	2610	
10	QPSK	1	1	14.95	15.14	15.05	16.0



n38_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				256	256	256	
40	PI2 BPSK	1	1	18.14	18.20	18.26	20.0
40	PI2 BPSK	1	63	18.28	18.30	18.34	20.0
40	PI2 BPSK	1	104	18.27	18.27	18.24	20.0
40	PI2 BPSK	50	0	18.22	18.30	18.21	20.0
40	PI2 BPSK	50	28	18.13	18.23	18.18	20.0
40	PI2 BPSK	50	56	18.23	18.26	18.13	20.0
40	PI2 BPSK	100	0	18.17	18.21	18.14	20.0
40	QPSK	1	1	18.23	18.23	18.22	20.0
40	QPSK	1	63	18.17	18.20	18.23	20.0
40	QPSK	1	104	18.17	18.21	18.27	20.0
40	QPSK	50	0	18.18	18.12	18.14	20.0
40	QPSK	50	28	18.17	18.27	18.22	20.0
40	QPSK	50	56	18.16	18.20	18.18	20.0
40	QPSK	100	0	18.10	18.13	18.19	20.0
40	64QAM	1	1	18.22	18.10	18.04	20.0
40	64QAM	1	1	18.27	18.25	18.20	20.0
40	256QAM	1	1	18.22	18.28	18.28	19.5
Channel							
Frequency (MHz)				251.00	251.00	251.00	MPR (dB)
Frequency (MHz)				2585	2598	2605	
30	QPSK	1	1	18.16	18.10	18.25	20.0
Channel							
Frequency (MHz)				251.00	251.00	251.00	MPR (dB)
Frequency (MHz)				2580	2598	2610	
20	QPSK	1	1	18.06	18.23	18.16	20.0
Channel							
Frequency (MHz)				2571.00	2590	2600	MPR (dB)
Frequency (MHz)				2577.5	2598	2612.5	
15	QPSK	1	1	18.17	18.21	18.12	20.0
Channel							
Frequency (MHz)				2511.00	2511.00	2511.00	MPR (dB)
Frequency (MHz)				2570	2598	2618	
10	QPSK	1	1	18.10	18.14	18.13	20.0

FCC_n41_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				2548.01	2548.00	2548	
100	PI2 BPSK	1	1	19.09	19.06	18.97	20.0
100	PI2 BPSK	1	137	19.03	19.15	18.97	20.0
100	PI2 BPSK	1	271	19.06	19.03	19.09	20.0
100	PI2 BPSK	135	0	19.03	19.13	19.08	20.0
100	PI2 BPSK	135	69	19.10	19.10	18.99	20.0
100	PI2 BPSK	135	135	19.11	19.04	19.04	20.0
100	PI2 BPSK	270	0	19.06	19.10	19.04	20.0
100	QPSK	1	1	19.12	19.16	19.10	20.0
100	QPSK	1	137	19.09	19.04	19.07	20.0
100	QPSK	1	271	19.02	19.07	18.95	20.0
100	QPSK	135	0	19.06	19.12	18.99	20.0
100	QPSK	135	69	19.07	19.14	19.04	20.0
100	QPSK	135	135	19.02	19.10	19.05	20.0
100	QPSK	270	0	19.00	19.05	19.02	20.0
100	64QAM	1	1	19.03	19.04	19.06	20.0
100	64QAM	1	1	19.08	19.03	19.03	20.0
100	256QAM	1	1	19.04	19.11	18.98	20.0
Channel							
Frequency (MHz)				2522.00	2522.00	2522.00	MPR (dB)
Frequency (MHz)				2541	2542.00	2644.98	
90	QPSK	1	1	19.00	19.07	19.07	20.0
Channel							
Frequency (MHz)				2572.01	2599	2609	MPR (dB)
Frequency (MHz)				2636.02	2592.00	2649.99	
80	QPSK	1	1	19.08	19.15	18.95	20.0
Channel							
Frequency (MHz)				2606.01	2599	2630.00	MPR (dB)
Frequency (MHz)				2631.01	2592.00	2655	
70	QPSK	1	1	19.04	19.02	19.07	20.0
Channel							
Frequency (MHz)				2622.01	2599	2630.00	MPR (dB)
Frequency (MHz)				2624	2592.00	2658.98	
60	QPSK	1	1	19.04	19.15	18.95	20.0
Channel							
Frequency (MHz)				2622.01	2599	2630.00	MPR (dB)
Frequency (MHz)				2621.02	2592.00	2664.99	
50	QPSK	1	1	18.98	19.11	19.02	20.0
Channel							
Frequency (MHz)				2616.01	2599	2630.00	MPR (dB)
Frequency (MHz)				2616.01	2592.00	2670	
40	QPSK	1	1	19.01	19.12	19.02	20.0
Channel							
Frequency (MHz)				2622.01	2599	2630.00	MPR (dB)
Frequency (MHz)				2611	2592.00	2674.98	
30	QPSK	1	1	19.08	19.10	18.99	20.0
Channel							
Frequency (MHz)				2622.01	2599	2630.00	MPR (dB)
Frequency (MHz)				2606.02	2592.00	2676.98	
20	QPSK	1	1	19.04	19.09	19.06	20.0



FCC_n41_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				2468.01	2472.00	2476.00			
100	PI2 BPSK	1	1	15.07	15.23	15.12	16.0	0.0	
100	PI2 BPSK	1	137	15.11	15.18	15.13			
100	PI2 BPSK	1	271	15.14	15.20	15.18			
100	PI2 BPSK	135	0	15.17	15.24	15.21	16.0	0.0	
100	PI2 BPSK	135	69	15.18	15.24	15.20			
100	PI2 BPSK	135	135	15.19	15.13	15.19	16.0	0.0	
100	PI2 BPSK	270	0	15.12	15.19	15.13			
100	QPSK	1	1	15.20	15.28	15.22			
100	QPSK	1	137	15.07	15.26	15.14			
100	QPSK	1	271	15.18	15.25	15.09	16.0	0.0	
100	QPSK	135	0	15.13	15.26	15.19			
100	QPSK	135	69	15.15	15.27	15.20			
100	QPSK	135	135	15.15	15.21	15.08	16.0	0.0	
100	QPSK	270	0	15.08	15.10	15.10	16.0	0.0	
100	64QAM	1	1	15.19	15.17	15.14	16.0	0.0	
100	64QAM	1	1	15.15	15.15	15.07	16.0	0.0	
100	256QAM	1	1	15.17	15.19	15.13	16.0	0.0	
Channel									
Frequency (MHz)				2541	2549.99	2544.98			
90	QPSK	1	1	15.06	15.15	15.16	16.0	0.0	
Channel									
Frequency (MHz)				2592.00	2599.99	2594.99			
90	QPSK	1	1	15.05	15.25	15.17	16.0	0.0	
Channel									
Frequency (MHz)				2593.01	2599.99	2595.99			
70	QPSK	1	1	15.19	15.19	15.19	16.0	0.0	
Channel									
Frequency (MHz)				2620	2629.99	2624.98			
60	QPSK	1	1	15.07	15.17	15.18	16.0	0.0	
Channel									
Frequency (MHz)				2621.00	2629.99	2624.99			
60	QPSK	1	1	15.14	15.18	15.18	16.0	0.0	
Channel									
Frequency (MHz)				2616.01	2629.99	2617.99			
40	QPSK	1	1	15.07	15.13	15.16	16.0	0.0	
Channel									
Frequency (MHz)				2622.00	2629.99	2624.98			
30	QPSK	1	1	15.14	15.16	15.09	16.0	0.0	
Channel									
Frequency (MHz)				2628.00	2629.99	2627.99			
20	QPSK	1	1	15.14	15.18	15.20	16.0	0.0	

Par27Q_n78_Ant 4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3099.98	3103.97	3107.96			
100	PI2 BPSK	1	1	14.58					
100	PI2 BPSK	1	137	14.69			15.5	0.0	
100	PI2 BPSK	1	271	14.71					
100	PI2 BPSK	135	0	14.60			15.5	0.0	
100	PI2 BPSK	135	69	14.61					
100	PI2 BPSK	135	135	14.68			15.5	0.0	
100	PI2 BPSK	270	0	14.65					
100	QPSK	1	1	14.72					
100	QPSK	1	137	14.61			15.5	0.0	
100	QPSK	1	271	14.68					
100	QPSK	135	0	14.62					
100	QPSK	135	69	14.65					
100	QPSK	135	135	14.58			15.5	0.0	
100	QPSK	270	0	14.57			15.5	0.0	
100	64QAM	1	1	14.58			15.5	0.0	
100	64QAM	1	1	14.71			15.5	0.0	
100	256QAM	1	1	14.64			15.5	0.0	
Channel									
Frequency (MHz)				3130.00	3133.99	3137.98			
90	QPSK	1	1	14.59	14.64	14.64	15.5	0.0	
Channel									
Frequency (MHz)				3130.00	3133.99	3135.99			
80	QPSK	1	1	14.59	14.58	14.69	15.5	0.0	
Channel									
Frequency (MHz)				3135.01	3139.99	3143.98			
70	QPSK	1	1	14.59	14.59	14.65	15.5	0.0	
Channel									
Frequency (MHz)				3140	3149.99	3145.98			
60	QPSK	1	1	14.69	14.63	14.61	15.5	0.0	
Channel									
Frequency (MHz)				3135.00	3139.99	3140.98			
50	QPSK	1	1	14.59	14.68	14.63	15.5	0.0	
Channel									
Frequency (MHz)				3170.01	3179.99	3174.98			
40	QPSK	1	1	14.69	14.63	14.60	15.5	0.0	
Channel									
Frequency (MHz)				3165	3169.99	3164.99			
30	QPSK	1	1	14.68	14.61	14.60	15.5	0.0	
Channel									
Frequency (MHz)				3160.00	3169.99	3164.98			
20	QPSK	1	1	14.63	14.67	14.70	15.5	0.0	
Channel									
Frequency (MHz)				3155.00	3159.99	3156.98			
15	QPSK	1	1	14.71	14.63	14.60	15.5	0.0	
Channel									
Frequency (MHz)				3155.01	3159.99	3154.98			
10	QPSK	1	1	14.71	14.64	14.65	15.5	0.0	

Par27Q_n78_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				3139.98	3143.97	3147.96			
100	PI2 BPSK	1	1	14.41					
100	PI2 BPSK	1	137	14.41			15.5	0.0	
100	PI2 BPSK	1	271	14.39					
100	PI2 BPSK	135	0	14.31			15.5	0.0	
100	PI2 BPSK	135	69	14.35					
100	PI2 BPSK	135	135	14.38			15.5	0.0	
100	PI2 BPSK	270	0	14.42					
100	QPSK	1	1	14.45					
100	QPSK	1	137	14.36			15.5	0.0	
100	QPSK	1	271	14.35					
100	QPSK	135	0	14.35					
100	QPSK	135	69	14.40					
100	QPSK	135	135	14.40			15.5	0.0	
100	QPSK	270	0	14.35			15.5	0.0	
100	64QAM	1	1	14.36			15.5	0.0	
100	64QAM	1	1	14.43			15.5	0.0	
100	256QAM	1	1	14.30			15.5	0.0	
Channel									
Frequency (MHz)				3160.00	3163.99	3167.98			
90	QPSK	1	1	14.40	14.30	14.39	15.5	0.0	
Channel									
Frequency (MHz)				3160.00	3163.99	3165.99			
80	QPSK	1	1	14.30	14.35	14.39	15.5	0.0	
Channel									
Frequency (MHz)				3165.01	3169.99	3174.98			
70	QPSK	1	1	14.42	14.32	14.40	15.5	0.0	
Channel									
Frequency (MHz)				3160	3169.99	3164.98			
60	QPSK	1	1	14.38	14.40	14.40	15.5	0.0	
Channel									
Frequency (MHz)				3175.00	3179.99	3176.98			
50	QPSK	1	1	14.30	14.41	14.42	15.5	0.0	
Channel									
Frequency (MHz)				3170.01	3179.99	3174.98			
40	QPSK	1	1	14.32	14.42	14.31	15.5	0.0	
Channel									
Frequency (MHz)				3165	3169.99	3164.99			
30	QPSK	1	1	14.42	14.32	14.37	15.5	0.0	
Channel									
Frequency (MHz)				3160.00	3163.99	3162.98			
20	QPSK	1	1	14.30	14.42	14.42	15.5	0.0	
Channel									
Frequency (MHz)				3155.00	3159.99	3156.98			
15	QPSK	1	1	14.32	14.31	14.38	15.5	0.0	
Channel									
Frequency (MHz)				3155.01	3159.99	3154.98			
10	QPSK	1	1	14.32	14.39	14.38	15.5	0.0	



Par27Q n78_Ant 6									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		21.17				
100	PI2 BPSK	1	137		21.27		22.0	0.0	
100	PI2 BPSK	1	271		21.24				
100	PI2 BPSK	135	0		21.25		22.0	0.0	
100	PI2 BPSK	135	66		21.23		22.0	0.0	
100	PI2 BPSK	135	135		21.24		22.0	0.0	
100	PI2 BPSK	270	0		21.24				
100	QPSK	1	1		21.28				
100	QPSK	1	137		21.29		22.0	0.0	
100	QPSK	1	271		21.28				
100	QPSK	135	0		21.17				
100	QPSK	135	66		21.25		22.0	0.0	
100	QPSK	135	135		21.23		22.0	0.0	
100	QPSK	270	0		21.18		22.0	0.0	
100	ISB4M	1	1		21.17		22.0	0.0	
100	6AQAM	1	1		21.24		22.0	0.0	
100	256QAM	1	1		20.83		21.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	3495	3499.98	3504.99			
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.22	21.13	21.13	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.24	21.21	21.14	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.17	21.16	21.15	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.21	21.25	21.13	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.24	21.24	21.13	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.22	21.17	21.15	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.24	21.18	21.20	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.17	21.20	21.13	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.26	21.28	21.27	22.0	0.0	

Par27Q n78_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		15.99				
100	PI2 BPSK	1	137		15.94				
100	PI2 BPSK	1	271		15.89				
100	PI2 BPSK	135	0		15.99		17.0	0.0	
100	PI2 BPSK	135	66		15.95		17.0	0.0	
100	PI2 BPSK	135	135		15.92		17.0	0.0	
100	PI2 BPSK	270	0		15.99				
100	QPSK	1	1		15.90				
100	QPSK	1	137		15.99				
100	QPSK	1	271		15.85				
100	QPSK	135	0		15.98				
100	QPSK	135	66		15.94		17.0	0.0	
100	QPSK	135	135		15.97		17.0	0.0	
100	QPSK	270	0		15.88		17.0	0.0	
100	ISB4M	1	1		15.96		17.0	0.0	
100	6AQAM	1	1		15.94		17.0	0.0	
100	256QAM	1	1		15.99		17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.99	15.95	15.94	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.97	15.85	15.98	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.91	15.98	15.96	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.86	15.87	15.98	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.86	15.89	15.80	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.96	15.98	15.90	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.89	15.92	15.93	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.99	15.99	15.90	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.99	15.96	15.91	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.96	15.96	15.87	17.0	0.0	



Full/Default Power Mode Other PA

Table for Band 4_Ant 2 with columns for Modulation, RB Size, RB Offset, Power, and various frequency/offset values.

Table for Band 4_Ant 1 with columns for Modulation, RB Size, RB Offset, Power, and various frequency/offset values.

Table for Band 66_Ant 2 with columns for Modulation, RB Size, RB Offset, Power, and various frequency/offset values.

Table for Band 66_Ant 1 with columns for Modulation, RB Size, RB Offset, Power, and various frequency/offset values.



n2_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel				375000	376000	380000			
Frequency (MHz)									
20	P1/2 BPSK	1	1	22.24	22.58	22.71			
20	P1/2 BPSK	1	53	22.67	22.60	22.86	24.0	0.0	
20	P1/2 BPSK	1	104	22.89	22.68	22.72			
20	P1/2 BPSK	50	0	22.62	22.57	22.61	24.0	0.0	
20	P1/2 BPSK	50	28	22.66	22.59	22.86	24.0	0.0	
20	P1/2 BPSK	50	66	22.68	22.60	22.61			
20	P1/2 BPSK	100	0	22.67	22.59	22.61	24.0	0.0	
20	QPSK	1	1	22.75	22.61	22.78			
20	QPSK	1	53	22.72	22.70	22.71	24.0	0.0	
20	QPSK	1	104	22.76	22.72	22.74			
20	QPSK	50	0	22.60	22.62	22.85	24.0	0.0	
20	QPSK	50	28	22.63	22.72	22.68	24.0	0.0	
20	QPSK	50	66	22.61	22.58	22.59	24.0	0.0	
20	QPSK	100	0	22.67	22.70	22.66			
20	64QAM	1	1	22.74	22.69	22.74	24.0	0.0	
20	64QAM	1	1	21.88	21.80	21.85	22.0	2.0	
20	256QAM	1	1	20.63	19.90	20.00	21.0	3.0	
Channel				375000	376000	380000			
Frequency (MHz)									
15	QPSK	1	1	22.73	22.70	22.73	24.0	0.0	
Channel				375000	376000	380000			
Frequency (MHz)									
10	QPSK	1	1	22.63	22.58	22.60	24.0	0.0	
Channel				375000	376000	380000			
Frequency (MHz)									
5	QPSK	1	1	22.65	22.60	22.62	24.0	0.0	

n2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)									
20	P1/2 BPSK	1	1	22.51	22.43	22.27			
20	P1/2 BPSK	1	53	22.48	22.37	22.21	24.0	0.0	
20	P1/2 BPSK	1	104	22.34	22.27	22.13			
20	P1/2 BPSK	50	0	22.33	22.26	22.10	23.5	0.5	
20	P1/2 BPSK	50	28	22.29	22.23	22.09	24.0	0.0	
20	P1/2 BPSK	50	56	22.33	22.27	22.10			
20	P1/2 BPSK	100	0	22.30	22.30	22.13	23.5	0.5	
20	QPSK	1	1	22.51	22.55	22.27			
20	QPSK	1	53	22.48	22.40	22.21	24.0	0.0	
20	QPSK	1	104	22.30	22.31	22.17			
20	QPSK	50	0	22.16	22.06	21.92	23.0	1.0	
20	QPSK	50	28	22.20	22.41	22.21	24.0	0.0	
20	QPSK	50	56	22.61	21.92	21.76	23.0	1.0	
20	QPSK	100	0	22.65	22.07	21.82			
20	16QAM	1	1	22.51	22.42	22.28	23.0	1.0	
20	64QAM	1	1	20.69	20.83	20.44	21.5	2.5	
20	256QAM	1	1	18.52	18.44	18.30	19.5	4.5	
Channel				372000	376000	380000			
Frequency (MHz)									
15	QPSK	1	1	22.48	22.30	22.14	24.0	0.0	
Channel				372000	376000	380000			
Frequency (MHz)									
10	QPSK	1	1	22.40	22.33	22.21	24.0	0.0	
Channel				372000	376000	380000			
Frequency (MHz)									
5	QPSK	1	1	22.50	22.52	22.21	24.0	0.0	



n66_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				1740	1745	1750			
40	Pi/2 BPSK	1	1	22.12	22.24	22.10			
40	Pi/2 BPSK	1	108	22.14	22.16	22.21	24.0	0.0	
40	Pi/2 BPSK	1	214	22.18	22.17	22.18			
40	Pi/2 BPSK	108	0	21.87	21.70	21.85	23.5	0.5	
40	Pi/2 BPSK	108	54	22.17	22.21	22.10	24.0	0.0	
40	Pi/2 BPSK	108	108	21.84	21.80	21.82			
40	Pi/2 BPSK	216	0	21.86	21.87	21.81	23.5	0.5	
40	QPSK	1	1	22.05	22.08	22.22			
40	QPSK	1	108	22.15	22.14	22.08	24.0	0.0	
40	QPSK	1	214	22.11	22.27	22.13			
40	QPSK	108	0	21.42	21.50	21.45	23.0	1.0	
40	QPSK	108	54	22.13	22.20	22.25	24.0	0.0	
40	QPSK	108	108	21.87	21.44	21.30	23.0	1.0	
40	QPSK	216	0	21.35	21.35	21.32	23.0	1.0	
40	64QAM	1	1	21.58	21.50	21.60	23.0	1.0	
40	64QAM	1	1	21.75	21.66	21.50	22.0	2.0	
40	256QAM	1	1	20.54	20.20	20.08	21.0	3.0	
Channel									
Frequency (MHz)				1755	1745	1765			
30	QPSK	1	1	22.13	22.20	22.08	24.0	0.0	
Channel									
Frequency (MHz)				1750	1745	1770			
20	QPSK	1	1	22.22	22.17	22.08	24.0	0.0	
Channel									
Frequency (MHz)				1717.5	1745	1772.5			
18	QPSK	1	1	22.13	22.13	22.11	24.0	0.0	
Channel									
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.24	22.17	22.07	24.0	0.0	
Channel									
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.19	22.10	22.12	24.0	0.0	

n66_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				1740	1745	1750			
40	Pi/2 BPSK	1	1	22.77	22.79	22.81			
40	Pi/2 BPSK	1	108	22.79	22.72	22.87	24.0	0.0	
40	Pi/2 BPSK	1	214	22.82	22.80	22.80			
40	Pi/2 BPSK	108	0	22.73	22.73	22.87	23.5	0.5	
40	Pi/2 BPSK	108	54	22.83	22.86	22.47	24.0	0.0	
40	Pi/2 BPSK	108	108	22.82	22.80	22.48			
40	Pi/2 BPSK	216	0	22.71	22.78	22.87	23.5	0.5	
40	QPSK	1	1	22.80	22.82	22.70			
40	QPSK	1	108	22.71	22.74	22.89	24.0	0.0	
40	QPSK	1	214	22.86	22.85	22.86			
40	QPSK	108	0	22.43	22.47	22.32	23.0	1.0	
40	QPSK	108	54	22.72	22.70	22.81	24.0	0.0	
40	QPSK	108	108	22.33	22.33	22.14	23.0	1.0	
40	QPSK	216	0	22.35	22.40	22.23			
40	64QAM	1	1	21.41	22.45	22.28	23.0	1.0	
40	64QAM	1	1	20.87	21.01	20.83	21.5	2.5	
40	256QAM	1	1	19.23	19.24	19.09	19.5	4.5	
Channel									
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	22.70	22.86	22.49	24.0	0.0	
Channel									
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	22.71	22.73	22.57	24.0	0.0	
Channel									
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.60	22.71	22.51	24.0	0.0	
Channel									
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.70	22.71	22.69	24.0	0.0	
Channel									
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.66	22.86	22.69	24.0	0.0	



Reduced Power Mode for Other PA 5D12

Band 4_Ant 2												
RF [MHz]	Modulation	RB Size	RB Offset	Power [W]	Power [W]	Power [W]	Turn-on (min)	MPR (dB)				
Channel				20000	20175	20300						
20	QPSK	0	22.44	22.23	22.44	22.44	24	0				
20	QPSK	1	49	22.29	22.14	22.38						
20	QPSK	1	74	22.29	22.22	22.41						
20	QPSK	1	99	22.29	22.19	22.41						
20	QPSK	50	24	22.20	21.90	22.03						
20	QPSK	50	24	21.96	21.82	22.10	23	1				
20	QPSK	50	24	21.96	21.82	22.10						
20	QPSK	100	0	22.34	22.28	22.25						
20	HQAM	1	50	22.12	22.16	22.31	23	1				
20	HQAM	1	75	21.77	21.63	21.98						
20	HQAM	50	24	21.78	21.62	21.97						
20	HQAM	50	24	21.68	21.61	21.74	23	1				
20	HQAM	100	0	21.70	21.58	21.98						
20	HQAM	100	0	20.72	20.59	20.86						
20	HQAM	1	49	21.82	21.57	21.78	23	1				
20	HQAM	1	74	21.74	21.68	21.91						
20	HQAM	50	24	20.76	20.61	20.68	22	2				
20	HQAM	50	24	20.67	20.57	20.73						
20	HQAM	100	0	18.64	18.65	18.60						
20	HQAM	1	49	18.45	18.57	18.55	19	5				
20	HQAM	1	74	18.45	18.45	18.43						
20	HQAM	50	24	18.63	18.70	18.67						
20	HQAM	100	0	18.44	18.59	18.67	19	5				
20	HQAM	100	0	18.51	18.62	18.50						
Channel				20000	20175	20300	Turn-on (min)	MPR (dB)				
15	QPSK	0	22.42	22.23	22.25	22.25	24	0				
15	QPSK	1	47	22.31	22.18	22.30						
15	QPSK	1	74	22.29	22.22	22.41						
15	QPSK	1	99	22.29	22.19	22.40						
15	QPSK	38	20	21.97	21.88	21.98	23	1				
15	QPSK	38	20	21.96	21.80	21.99						
15	QPSK	75	0	21.96	21.80	21.99						
15	HQAM	1	0	22.28	22.15	22.18						
15	HQAM	1	24	22.23	22.08	22.36	23	1				
15	HQAM	38	0	21.82	21.63	21.72						
15	HQAM	38	0	21.71	21.58	21.68						
15	HQAM	38	39	21.65	21.58	21.61	23	1				
15	HQAM	75	0	21.68	21.59	21.74						
15	HQAM	75	0	20.72	20.59	20.86						
15	HQAM	1	37	21.02	21.73	21.08	23	1				
15	HQAM	1	74	21.80	21.71	21.90						
15	HQAM	38	0	20.88	20.85	20.71						
15	HQAM	38	39	20.88	20.53	20.71	22	2				
15	HQAM	38	39	20.63	20.60	20.76						
15	HQAM	38	39	18.80	18.52	18.47						
15	HQAM	1	37	18.30	18.56	18.54	19	5				
15	HQAM	1	74	18.45	18.45	18.43						
15	HQAM	38	39	18.28	18.65	18.63						
15	HQAM	38	39	18.20	18.56	18.57	19	5				
15	HQAM	75	0	18.46	18.49	18.45						
15	HQAM	75	0	18.46	18.49	18.45						
Channel				20000	20175	20300	Turn-on (min)	MPR (dB)				
10	QPSK	0	22.44	22.33	22.42	22.42	24	0				
10	QPSK	1	26	22.38	22.40	22.42						
10	QPSK	1	49	22.47	22.23	22.46						
10	QPSK	1	74	22.47	22.38	22.44						
10	QPSK	28	12	22.12	22.00	22.16	23	1				
10	QPSK	28	12	22.08	22.00	22.21						
10	QPSK	50	0	22.24	22.00	22.21						
10	HQAM	1	0	22.20	21.97	22.18						
10	HQAM	1	24	22.08	21.96	22.17	23	1				
10	HQAM	28	0	21.93	21.73	21.91						
10	HQAM	28	0	21.84	21.64	21.84						
10	HQAM	28	25	21.82	21.72	21.94	23	1				
10	HQAM	50	0	21.83	21.71	21.92						
10	HQAM	50	0	20.72	20.59	20.86						
10	HQAM	1	35	21.11	21.81	21.14	23	1				
10	HQAM	1	49	21.03	21.89	21.05						
10	HQAM	25	0	20.91	20.73	20.90						
10	HQAM	25	0	20.81	20.72	20.94						
10	HQAM	50	0	18.62	18.63	18.63						
10	HQAM	1	0	18.25	18.52	18.59	19	5				
10	HQAM	1	24	18.34	18.53	18.53						
10	HQAM	25	0	18.62	18.61	18.62						
10	HQAM	25	0	18.51	18.56	18.53	19	5				
10	HQAM	50	0	18.44	18.59	18.42						
10	HQAM	50	0	18.44	18.59	18.42						
Channel				19975	20175	20375	Turn-on (min)	MPR (dB)				
5	QPSK	0	22.43	22.30	22.37	22.37	24	0				
5	QPSK	1	12	22.41	22.36	22.40						
5	QPSK	1	24	22.39	22.28	22.36						
5	QPSK	1	36	22.38	22.18	22.35						
5	QPSK	12	7	22.28	22.01	22.26	23	1				
5	QPSK	12	7	22.13	21.96	22.22						
5	QPSK	12	7	22.16	21.96	22.22						
5	HQAM	1	0	22.14	21.88	22.21						
5	HQAM	1	12	22.01	21.88	22.06	23	1				
5	HQAM	1	24	22.11	21.90	22.22						
5	HQAM	12	0	21.93	21.69	21.89						
5	HQAM	12	0	21.90	21.62	22.11						
5	HQAM	12	13	21.88	21.72	22.01	23	1				
5	HQAM	25	0	21.89	21.70	21.94						
5	HQAM	25	0	20.72	20.59	20.86						
5	HQAM	1	12	22.22	21.93	22.36	23	1				
5	HQAM	1	24	22.09	21.88	22.18						
5	HQAM	12	0	20.98	20.80	21.06						
5	HQAM	12	7	20.85	20.75	21.00	22	2				
5	HQAM	12	13	20.87	20.69	20.98						
5	HQAM	25	0	18.66	18.66	18.66						
5	HQAM	1	0	18.51	18.58	18.59	19	5				
5	HQAM	1	12	18.33	18.51	18.50						
5	HQAM	12	0	18.26	18.65	18.58						
5	HQAM	12	7	18.45	18.55	18.55	19	5				
5	HQAM	25	0	18.38	18.65	18.51						
5	HQAM	25	0	18.44	18.49	18.45						
5	HQAM	25	0	18.44	18.49	18.45						
Channel				19975	20175	20375	Turn-on (min)	MPR (dB)				
3	QPSK	0	22.25	22.31	22.24	22.24	24	0				
3	QPSK	1	14	22.31	22.21	22.41						
3	QPSK	1	28	22.31	22.12	22.29						
3	QPSK	4	4	22.20	22.03	22.29						
3	QPSK	4	7	22.17	22.02	22.18	23	1				
3	HQAM	1	0	22.13	21.82	22.10						
3	HQAM	1	14	22.18	21.83	22.05	23	1				
3	HQAM	1	28	22.04	21.79	22.03						
3	HQAM	4	7	21.94	21.79	22.08	23	1				
3	HQAM	4	7	21.87	21.76	21.96						
3	HQAM	14	0	21.99	21.88	22.06						
3	HQAM	14	0	20.72	20.59	20.86						
3	HQAM	1	14	22.21	21.97	22.15	23	1				
3	HQAM	1	28	22.07	21.82	22.16						
3	HQAM	4	7	21.94	21.79	22.08	23	1				
3	HQAM	4	7	21.87	21.76	21.96						
3	HQAM	14	0	21.99	21.88	22.06						
3	HQAM	14	0	20.72	20.59	20.86						
3	HQAM	1	14	22.21	21.97	22.15	23	1				
3	HQAM	1	28	22.07	21.82	22.16						
3	HQAM	4	7	21.94	21.79	22.08	23	1				
3	HQAM	4	7	21.87	21.76	21.96						
3	HQAM	14	0	21.99	21.88	22.06						
3	HQAM	14	0	20.72	20.59	20.86						
3	HQAM	1	14	22.21	21.97	22.15	23	1				
3	HQAM	1	28	22.07	21.82	22.16						
3	HQAM	4	7	21.94	21.79	22.08	23	1				
3	HQAM	4	7	21.87	21.76	21.96						
3	HQAM	14	0	21.99	21.88	22.06						
3	HQAM	14	0	20.72	20.59	20.86						
3	HQAM	1	14	22.21	21.97	22.15	23	1				
3	HQAM	1	28	22.07	21.82	22.16						
3	HQAM	4	7	21.94	21.79	22.08</						



n2_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				375000	376000	380000			
Frequency (MHz)									
20	P1/2 BPSK	1	1	22.74	22.88	22.71			
20	P1/2 BPSK	1	53	22.87	22.60	22.86	24.0	0.0	
20	P1/2 BPSK	1	104	22.89	22.68	22.72			
20	P1/2 BPSK	50	0	22.82	22.57	22.81	24.0	0.0	
20	P1/2 BPSK	50	28	22.85	22.59	22.85	24.0	0.0	
20	P1/2 BPSK	50	66	22.88	22.60	22.81			
20	P1/2 BPSK	100	0	22.87	22.59	22.81	24.0	0.0	
20	QPSK	1	1	22.75	22.81	22.78			
20	QPSK	1	53	22.72	22.70	22.71	24.0	0.0	
20	QPSK	1	104	22.70	22.72	22.74			
20	QPSK	50	0	22.80	22.62	22.85	24.0	0.0	
20	QPSK	50	28	22.83	22.72	22.88	24.0	0.0	
20	QPSK	50	66	22.81	22.58	22.59	24.0	0.0	
20	QPSK	100	0	22.87	22.70	22.85			
20	8QAM	1	1	22.74	22.69	22.74	24.0	0.0	
20	8QAM	1	1	21.88	21.80	21.85	22.0	0.0	
20	25QAM	1	1	20.63	19.95	20.80	21.0	3.0	
Channel				375000	376000	380000			
Frequency (MHz)									
15	QPSK	1	1	22.73	22.70	22.73	24.0	0.0	
Channel				375000	376000	380000			
Frequency (MHz)									
10	QPSK	1	1	22.63	22.80	22.80	24.0	0.0	
Channel				375000	376000	380000			
Frequency (MHz)									
5	QPSK	1	1	1852.5	1880	1907.5	24.0	0.0	

n2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)									
20	P1/2 BPSK	1	1	15.48	15.48	15.47			
20	P1/2 BPSK	1	53	15.42	15.44	15.48	17.0	0.0	
20	P1/2 BPSK	1	104	15.41	15.50	15.35			
20	P1/2 BPSK	50	0	15.44	15.52	15.30	17.0	0.0	
20	P1/2 BPSK	50	28	15.48	15.46	15.42	17.0	0.0	
20	P1/2 BPSK	50	56	15.48	15.54	15.41			
20	P1/2 BPSK	100	0	15.41	15.48	15.48	17.0	0.0	
20	QPSK	1	1	15.52	15.50	15.50			
20	QPSK	1	53	15.50	15.54	15.47	17.0	0.0	
20	QPSK	1	104	15.51	15.52	15.36			
20	QPSK	50	0	15.49	15.55	15.45	17.0	0.0	
20	QPSK	50	28	15.53	15.51	15.38	17.0	0.0	
20	QPSK	50	56	15.38	15.46	15.39	17.0	0.0	
20	QPSK	100	0	15.43	15.46	15.43			
20	16QAM	1	1	15.45	15.50	15.30	17.0	0.0	
20	16QAM	1	1	15.38	15.47	15.48	17.0	0.0	
20	25QAM	1	1	15.50	15.48	15.45	17.0	0.0	
Channel				372000	376000	380000			
Frequency (MHz)									
15	QPSK	1	1	1857.5	1880	1902.5	17.0	0.0	
Channel				372000	376000	380000			
Frequency (MHz)									
10	QPSK	1	1	1850	1880	1905	17.0	0.0	
Channel				372000	376000	380000			
Frequency (MHz)									
5	QPSK	1	1	1852.5	1880	1907.5	17.0	0.0	



n66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1745	1745	1745			
40	PB-SSB	1	1	22.12	22.24	22.10			
40	PB-SSB	1	108	22.14	22.18	22.21	24.0	0.0	
40	PB-SSB	1	214	22.18	22.17	22.18			
40	PB-SSB	108	0	21.87	21.70	21.85	23.5	0.5	
40	PB-SSB	108	54	22.17	22.21	22.10	24.0	0.0	
40	PB-SSB	108	108	21.84	21.80	21.80			
40	PB-SSB	216	0	21.58	21.57	21.61	23.5	0.5	
40	QPSK	1	1	22.15	22.28	22.22			
40	QPSK	1	108	22.15	22.14	22.08	24.0	0.0	
40	QPSK	1	214	22.11	22.27	22.13			
40	QPSK	108	0	21.42	21.50	21.45	23.0	1.0	
40	QPSK	108	54	22.13	22.28	22.21	24.0	0.0	
40	QPSK	108	108	21.37	21.44	21.30	23.0	1.0	
40	QPSK	216	0	21.31	21.35	21.32			
40	16QAM	1	1	21.58	21.55	21.60	23.0	1.0	
40	16QAM	1	1	21.75	21.68	21.50	22.0	2.0	
40	256QAM	1	1	20.34	20.28	20.05	21.0	3.0	
Channel				349000	349000	349000			
Frequency (MHz)				1745	1745	1745			
30	QPSK	1	1	22.13	22.28	22.05	24.0	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1750	1745	1750			
20	QPSK	1	1	22.23	22.17	22.08	24.0	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1715.5	1745	1752.5			
15	QPSK	1	1	22.15	22.13	22.11	24.0	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1715	1745	1755			
10	QPSK	1	1	22.24	22.17	22.07	24.0	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1712.5	1745	1757.5			
5	QPSK	1	1	22.19	22.13	22.12	24.0	0.0	

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1745	1745	1745			
40	PB-SSB	1	1	18.23	18.20	18.07			
40	PB-SSB	1	108	18.12	18.24	18.20	17.5	0.0	
40	PB-SSB	1	214	18.14	18.20	18.18			
40	PB-SSB	108	0	18.23	18.27	18.10	17.5	0.0	
40	PB-SSB	108	54	18.18	18.18	18.09	17.5	0.0	
40	PB-SSB	108	108	18.19	18.17	18.21			
40	PB-SSB	216	0	18.21	18.20	18.10			
40	QPSK	1	1	18.05	18.20	18.22			
40	QPSK	1	108	18.18	18.22	18.10	17.5	0.0	
40	QPSK	1	214	18.22	18.18	18.20			
40	QPSK	108	0	18.17	18.22	18.08	17.5	0.0	
40	QPSK	108	54	18.21	18.25	18.25	17.5	0.0	
40	QPSK	108	108	18.13	18.18	18.18	17.5	0.0	
40	QPSK	216	0	18.15	18.22	18.18			
40	16QAM	1	1	18.13	18.18	18.12	17.5	0.0	
40	16QAM	1	1	18.17	18.18	18.14	17.5	0.0	
40	256QAM	1	1	18.23	18.20	18.13	17.5	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1745	1745	1745			
30	QPSK	1	1	18.13	18.18	18.07	17.5	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1750	1745	1750			
20	QPSK	1	1	18.18	18.24	18.09	17.5	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1717.5	1745	1752.5			
15	QPSK	1	1	18.24	18.27	18.11	17.5	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1715	1745	1755			
10	QPSK	1	1	18.13	18.20	18.21	17.5	0.0	
Channel				349000	349000	349000			
Frequency (MHz)				1712.5	1745	1757.5			
5	QPSK	1	1	18.13	18.20	18.21	17.5	0.0	



Reduced Power Mode for Other PA DSI3

Table for Band 4_Ant 2. Columns include Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., T-Start (ms), MPR (dB), Channel, and Frequency (MHz). Rows list various modulation schemes (QPSK, 16QAM, 64QAM, 256QAM) and their performance metrics.

Table for Band 4_Ant 1. Columns include Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., T-Start (ms), MPR (dB), Channel, and Frequency (MHz). Rows list various modulation schemes (QPSK, 16QAM, 64QAM, 256QAM) and their performance metrics.

Table for Band 66_Ant 2. Columns include Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., T-Start (ms), MPR (dB), Channel, and Frequency (MHz). Rows list various modulation schemes (QPSK, 16QAM, 64QAM, 256QAM) and their performance metrics.

Table for Band 66_Ant 1. Columns include Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., T-Start (ms), MPR (dB), Channel, and Frequency (MHz). Rows list various modulation schemes (QPSK, 16QAM, 64QAM, 256QAM) and their performance metrics.



n2_Ant 2									
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up Inst (dBm)	MFR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1860			
20	PIQ BPSK	1	1	22.74	22.88	22.71			
20	PIQ BPSK	1	53	22.87	22.60	22.65	24.0	0.0	
20	PIQ BPSK	1	104	22.83	22.66	22.72			
20	PIQ BPSK	50	0	22.62	22.57	22.61	24.0	0.0	
20	PIQ BPSK	50	28	22.85	22.59	22.65	24.0	0.0	
20	PIQ BPSK	50	56	22.82	22.60	22.61	24.0	0.0	
20	PIQ BPSK	100	0	22.67	22.59	22.61	24.0	0.0	
20	QPSK	1	1	22.70	22.81	22.75			
20	QPSK	1	53	22.72	22.70	22.71	24.0	0.0	
20	QPSK	1	104	22.70	22.72	22.74			
20	QPSK	50	0	22.60	22.62	22.65	24.0	0.0	
20	QPSK	50	28	22.65	22.71	22.68	24.0	0.0	
20	QPSK	50	56	22.81	22.86	22.89	24.0	0.0	
20	QPSK	100	0	22.87	22.70	22.65			
20	8QAM	1	1	22.74	22.68	22.74	24.0	0.0	
20	8QAM	1	1	21.88	21.80	21.85	22.0	0.0	
20	256QAM	1	1	20.63	19.96	20.00	21.0	0.0	
Channel				1875.0	1875.0	1875.0			
Frequency (MHz)				1875.5	1880	1902.5			
15	QPSK	1	1	22.73	22.70	22.73	24.0	0.0	
Channel				1875.0	1875.0	1875.0			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.83	22.58	22.67	24.0	0.0	
Channel				376000	376000	376000			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.85	22.60	22.62	24.0	0.0	

n2_Ant 1									
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up Inst (dBm)	MFR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1860			
20	PIQ BPSK	1	1	15.48	15.48	15.47			
20	PIQ BPSK	1	53	15.42	15.44	15.48	17.0	0.0	
20	PIQ BPSK	1	104	15.41	15.38	15.35			
20	PIQ BPSK	50	0	15.44	15.52	15.36	17.0	0.0	
20	PIQ BPSK	50	28	15.48	15.48	15.42	17.0	0.0	
20	PIQ BPSK	50	56	15.49	15.54	15.41	17.0	0.0	
20	PIQ BPSK	100	0	15.41	15.48	15.48	17.0	0.0	
20	QPSK	1	1	15.52	15.52	15.52			
20	QPSK	1	53	15.50	15.44	15.47	17.0	0.0	
20	QPSK	1	104	15.51	15.55	15.38			
20	QPSK	50	0	15.49	15.55	15.45	17.0	0.0	
20	QPSK	50	28	15.51	15.57	15.35	17.0	0.0	
20	QPSK	50	56	15.38	15.46	15.39	17.0	0.0	
20	QPSK	100	0	15.43	15.42	15.43			
20	8QAM	1	1	15.45	15.45	15.35	17.0	0.0	
20	8QAM	1	1	15.38	15.47	15.45	17.0	0.0	
20	256QAM	1	1	15.53	15.47	15.45	17.0	0.0	
Channel				1875.0	1875.0	1875.0			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	15.40	15.51	15.46	17.0	0.0	
Channel				1875.0	1875.0	1875.0			
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	15.48	15.45	15.39	17.0	0.0	
Channel				376000	376000	376000			
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	15.45	15.45	15.43	17.0	0.0	



n66_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)							
40	PUSBSK	1	1	22.12	22.24	22.10	
40	PUSBSK	1	108	22.14	22.16	22.21	24.0
40	PUSBSK	1	214	22.18	22.17	22.16	
40	PUSBSK	108	4	21.87	21.70	21.65	23.5
40	PUSBSK	108	54	22.17	22.21	22.10	24.0
40	PUSBSK	108	108	21.84	21.80	21.80	
40	PUSBSK	216	0	21.88	21.87	21.81	23.5
40	QPSK	1	1	22.12	22.26	22.22	
40	QPSK	1	108	22.12	22.14	22.08	24.0
40	QPSK	1	214	22.11	22.27	22.13	
40	QPSK	108	0	21.42	21.50	21.45	23.0
40	QPSK	108	54	21.11	21.05	21.10	24.0
40	QPSK	108	108	21.37	21.44	21.30	23.0
40	QPSK	216	0	21.31	21.35	21.32	
40	16QAM	1	1	21.69	21.62	21.60	23.0
40	16QAM	1	1	21.78	21.86	21.80	22.0
40	256QAM	1	1	20.94	20.26	20.08	21.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.25	17.45	17.65	
30	QPSK	1	1	22.11	22.26	22.08	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.20	17.45	17.70	
20	QPSK	1	1	22.27	22.17	22.08	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.17.5	17.45	17.72.5	
15	QPSK	1	1	22.12	22.13	22.11	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.15	17.45	17.75	
10	QPSK	1	1	22.24	22.17	22.07	24.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	17.12.5	17.45	17.77.5	
5	QPSK	1	1	22.10	22.13	22.12	24.0

n66_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)							
40	PUSBSK	1	1	15.73	15.84	15.73	
40	PUSBSK	1	108	15.75	15.80	15.72	17.0
40	PUSBSK	1	214	15.70	15.78	15.84	
40	PUSBSK	108	0	15.73	15.76	15.71	17.0
40	PUSBSK	108	54	15.85	15.83	15.70	17.0
40	PUSBSK	108	108	15.72	15.81	15.85	17.0
40	PUSBSK	216	0	15.71	15.84	15.84	
40	QPSK	1	1	15.80	15.85	15.75	
40	QPSK	1	108	15.69	15.82	15.79	17.0
40	QPSK	1	214	15.76	15.81	15.83	
40	QPSK	108	0	15.73	15.80	15.70	17.0
40	QPSK	108	54	15.77	15.81	15.71	17.0
40	QPSK	108	108	15.87	15.79	15.84	17.0
40	QPSK	216	0	15.72	15.73	15.71	
40	16QAM	1	1	15.71	15.74	15.77	17.0
40	16QAM	1	1	15.76	15.71	15.65	17.0
40	256QAM	1	1	15.66	15.78	15.87	17.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.68	15.74	15.70	17.0
30	QPSK	1	1	17.20	17.45	17.70	
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.71	15.84	15.76	17.0
20	QPSK	1	1	17.20	17.45	17.70	
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.71	15.79	15.72	17.0
15	QPSK	1	1	17.15	17.45	17.75	
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.68	15.74	15.67	17.0
10	QPSK	1	1	17.12.5	17.45	17.77.5	
Channel							
Frequency (MHz)							
5	QPSK	1	1	15.66	15.82	15.70	17.0



Reduced Power Mode for Other PA DS14

Table for Band 4_Ant 2. Columns include Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., T-Start (ms), MPR (dB), Channel, and Frequency (MHz). Rows list various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM across different RB sizes and offsets.

Table for Band 4_Ant 1. Columns include Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., T-Start (ms), MPR (dB), Channel, and Frequency (MHz). Rows list various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM across different RB sizes and offsets.

Table for Band 66_Ant 2. Columns include Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., T-Start (ms), MPR (dB), Channel, and Frequency (MHz). Rows list various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM across different RB sizes and offsets.

Table for Band 66_Ant 1. Columns include Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., T-Start (ms), MPR (dB), Channel, and Frequency (MHz). Rows list various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM across different RB sizes and offsets.



n2_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up Inst. (dBm)	MFR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1860			
20	Pi/2 BPSK	1	1	22.74	22.88	22.71			
20	Pi/2 BPSK	1	53	22.87	22.60	22.65	24.0	0.0	
20	Pi/2 BPSK	1	104	22.83	22.66	22.72			
20	Pi/2 BPSK	50	0	22.62	22.57	22.61	24.0	0.0	
20	Pi/2 BPSK	50	28	22.85	22.59	22.65	24.0	0.0	
20	Pi/2 BPSK	50	56	22.82	22.60	22.61	24.0	0.0	
20	Pi/2 BPSK	100	0	22.67	22.59	22.61	24.0	0.0	
20	QPSK	1	1	22.76	22.81	22.75			
20	QPSK	1	53	22.72	22.70	22.71	24.0	0.0	
20	QPSK	1	104	22.70	22.72	22.74			
20	QPSK	50	0	22.60	22.62	22.65	24.0	0.0	
20	QPSK	50	28	22.82	22.74	22.80	24.0	0.0	
20	QPSK	50	56	22.81	22.86	22.59	24.0	0.0	
20	QPSK	100	0	22.67	22.70	22.65	24.0	0.0	
20	16QAM	1	1	22.74	22.68	22.74	24.0	0.0	
20	16QAM	1	1	21.88	21.80	21.85	22.0	2.0	
20	256QAM	1	1	20.63	19.96	20.00	21.0	3.0	
Channel				1857.5	1860	1860.5			
Frequency (MHz)				1857.5	1860	1860.5			
15	QPSK	1	1	22.73	22.70	22.73	24.0	0.0	
Channel				1855	1860	1860			
Frequency (MHz)				1855	1860	1860			
10	QPSK	1	1	22.83	22.58	22.67	24.0	0.0	
Channel				1850	1860	1850			
Frequency (MHz)				1850	1860	1850			
5	QPSK	1	1	22.85	22.60	22.62	24.0	0.0	

n2_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up Inst. (dBm)	MFR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1860			
20	Pi/2 BPSK	1	1	22.51	22.43	22.27			
20	Pi/2 BPSK	1	53	22.46	22.37	22.21	24.0	0.0	
20	Pi/2 BPSK	1	104	22.34	22.27	22.13			
20	Pi/2 BPSK	50	0	22.33	22.26	22.10	23.5	0.5	
20	Pi/2 BPSK	50	28	22.29	22.23	22.09	24.0	0.0	
20	Pi/2 BPSK	50	56	22.33	22.27	22.10	23.5	0.5	
20	Pi/2 BPSK	100	0	22.36	22.30	22.13			
20	QPSK	1	1	22.51	22.50	22.27			
20	QPSK	1	53	22.48	22.40	22.21	24.0	0.0	
20	QPSK	1	104	22.36	22.31	22.17			
20	QPSK	50	0	22.16	22.06	21.92	23.0	1.0	
20	QPSK	50	28	22.37	22.41	22.21	23.0	0.0	
20	QPSK	50	56	22.01	21.90	21.76	23.0	1.0	
20	QPSK	100	0	22.05	22.07	21.82	23.0	1.0	
20	16QAM	1	1	22.21	22.42	22.26	23.0	1.0	
20	16QAM	1	1	20.89	20.63	20.44	21.5	2.5	
20	256QAM	1	1	18.62	18.44	18.30	19.5	4.5	
Channel				1852.5	1860	1860.5			
Frequency (MHz)				1852.5	1860	1860.5			
15	QPSK	1	1	22.48	22.20	22.14	24.0	0.0	
Channel				1850	1860	1850			
Frequency (MHz)				1850	1860	1850			
10	QPSK	1	1	22.43	22.30	22.21	24.0	0.0	
Channel				1852.5	1860	1852.5			
Frequency (MHz)				1852.5	1860	1852.5			
5	QPSK	1	1	22.50	22.30	22.21	24.0	0.0	



n66_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				1745	1745	1745	
40	PLO-BPSK	1	1	22.12	22.24	22.10	
40	PLO-BPSK	1	108	22.14	22.16	22.21	24.0
40	PLO-BPSK	1	214	22.15	22.17	22.16	
40	PLO-BPSK	108	4	21.87	21.70	21.65	23.5
40	PLO-BPSK	108	54	22.17	22.21	22.10	24.0
40	PLO-BPSK	108	108	21.54	21.60	21.50	
40	PLO-BPSK	216	0	21.58	21.57	21.61	23.5
40	QPSK	1	1	22.25	22.26	22.25	
40	QPSK	1	108	22.12	22.14	22.08	24.0
40	QPSK	1	214	22.11	22.27	22.13	
40	QPSK	108	0	21.42	21.50	21.45	23.0
40	QPSK	108	54	21.11	21.05	21.15	24.0
40	QPSK	108	108	21.37	21.44	21.30	23.0
40	QPSK	216	0	21.31	21.35	21.32	
40	16QAM	1	1	21.65	21.62	21.60	23.0
40	16QAM	1	1	21.75	21.66	21.50	22.0
40	256QAM	1	1	20.34	20.26	20.08	21.0
Channel							
Frequency (MHz)				1745	1745	1745	
30	QPSK	1	1	22.12	22.26	22.08	24.0
Channel							
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	22.27	22.17	22.08	24.0
Channel							
Frequency (MHz)				1720	1745	1770	
15	QPSK	1	1	22.12	22.13	22.11	24.0
Channel							
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	22.24	22.17	22.07	24.0
Channel							
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	22.10	22.13	22.12	24.0

n66_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mide Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)				1745	1745	1745	
40	PLO-BPSK	1	1	22.77	22.79	22.81	
40	PLO-BPSK	1	108	22.70	22.72	22.87	24.0
40	PLO-BPSK	1	214	22.82	22.85	22.80	
40	PLO-BPSK	108	0	22.73	22.73	22.57	23.5
40	PLO-BPSK	108	54	22.83	22.68	22.47	24.0
40	PLO-BPSK	108	108	22.65	22.65	22.49	23.5
40	PLO-BPSK	216	0	22.71	22.75	22.57	
40	QPSK	1	1	22.90	22.92	22.90	
40	QPSK	1	108	22.71	22.74	22.59	24.0
40	QPSK	1	214	22.56	22.55	22.38	
40	QPSK	108	0	22.43	22.47	22.32	23.0
40	QPSK	108	54	22.73	22.75	22.65	24.0
40	QPSK	108	108	22.33	22.33	22.14	23.0
40	QPSK	216	0	22.35	22.40	22.23	
40	16QAM	1	1	22.41	22.45	22.28	23.0
40	16QAM	1	1	20.97	21.01	20.83	21.5
40	256QAM	1	1	19.23	19.24	19.05	19.5
Channel							
Frequency (MHz)				1725	1745	1765	
30	QPSK	1	1	22.70	22.68	22.40	24.0
Channel							
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	1	22.71	22.73	22.57	24.0
Channel							
Frequency (MHz)				1715	1745	1775	
15	QPSK	1	1	22.68	22.71	22.51	24.0
Channel							
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	1	22.70	22.71	22.57	24.0
Channel							
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	1	22.66	22.68	22.50	24.0



Reduced Power Mode for Other PA DSI6

Table for Band 4_Ant 2. Columns include Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., T-Start (ms), MPR (dB), and Frequency (MHz). Rows list various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM across different RB sizes and offsets.

Table for Band 4_Ant 1. Columns include Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., T-Start (ms), MPR (dB), and Frequency (MHz). Rows list various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM across different RB sizes and offsets.

Table for Band 66_Ant 2. Columns include Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., T-Start (ms), MPR (dB), and Frequency (MHz). Rows list various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM across different RB sizes and offsets.

Table for Band 66_Ant 1. Columns include Modulation, RB Size, RB Offset, Power Ch./Freq., Power Ch./Freq., Power Ch./Freq., T-Start (ms), MPR (dB), and Frequency (MHz). Rows list various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM across different RB sizes and offsets.



n2_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	P1/2 BPSK	1	1	22.74	22.88	22.71			
20	P1/2 BPSK	1	53	22.67	22.60	22.66	24.0	0.0	
20	P1/2 BPSK	1	164	22.89	22.88	22.72			
20	P1/2 BPSK	50	0	22.62	22.57	22.61	24.0	0.0	
20	P1/2 BPSK	50	28	22.66	22.59	22.66	24.0	0.0	
20	P1/2 BPSK	50	66	22.68	22.60	22.61			
20	P1/2 BPSK	100	0	22.67	22.59	22.61	24.0	0.0	
20	QPSK	1	1	22.76	22.61	22.78			
20	QPSK	1	53	22.72	22.70	22.71	24.0	0.0	
20	QPSK	1	164	22.76	22.72	22.74			
20	QPSK	50	0	22.60	22.62	22.65	24.0	0.0	
20	QPSK	50	28	22.63	22.72	22.68	24.0	0.0	
20	QPSK	50	66	22.61	22.58	22.59	24.0	0.0	
20	QPSK	100	0	22.67	22.70	22.66			
20	16QAM	1	1	22.74	22.69	22.74	24.0	0.0	
20	16QAM	1	1	21.88	21.80	21.85	22.0	0.0	
20	256QAM	1	1	20.63	19.90	20.00	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	1827.5	1830	1820.5	1850	1850	
15	QPSK	1	1	22.73	22.70	22.73	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	1825	1830	1825	1850	1850	
10	QPSK	1	1	22.63	22.50	22.60	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	1822.5	1830	1827.5	1850	1850	
5	QPSK	1	1	22.65	22.60	22.62	24.0	0.0	

n2_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	P1/2 BPSK	1	1	20.50	20.58	20.51			
20	P1/2 BPSK	1	53	20.52	20.54	20.48	22.0	0.0	
20	P1/2 BPSK	1	164	20.70	20.52	20.51			
20	P1/2 BPSK	50	0	20.45	20.52	20.43	22.0	0.0	
20	P1/2 BPSK	50	28	20.49	20.47	20.45	22.0	0.0	
20	P1/2 BPSK	50	56	20.50	20.47	20.48			
20	P1/2 BPSK	100	0	20.42	20.50	20.44	22.0	0.0	
20	QPSK	1	1	20.53	20.50	20.50			
20	QPSK	1	53	20.43	20.55	20.41	22.0	0.0	
20	QPSK	1	164	20.48	20.52	20.41			
20	QPSK	50	0	20.45	20.54	20.53	22.0	0.0	
20	QPSK	50	28	20.52	20.58	20.54	22.0	0.0	
20	QPSK	50	56	20.51	20.49	20.48	22.0	0.0	
20	QPSK	100	0	20.43	20.57	20.52			
20	16QAM	1	1	20.45	20.49	20.41	22.0	0.0	
20	16QAM	1	1	20.45	20.45	20.52	21.5	0.5	
20	256QAM	1	1	18.52	18.44	18.50	19.5	2.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	1827.5	1830	1820.5	1850	1850	
15	QPSK	1	1	20.47	20.55	20.53	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	1825	1830	1825	1850	1850	
10	QPSK	1	1	20.46	20.49	20.52	22.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	1822.5	1830	1827.5	1850	1850	
5	QPSK	1	1	20.51	20.48	20.43	22.0	0.0	



n66_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MFR (dB)		
Channel				346000	349000	352000				
Frequency (MHz)				1745	1745	1745				
40	RU-BPSK	1	1	21.88	21.77	21.73				
40	RU-BPSK	1	108	21.74	21.84	21.72	23.0	0.0		
40	RU-BPSK	1	214	21.79	21.86	21.72				
40	RU-BPSK	108	0	21.87	21.86	21.88	23.0	0.0		
40	RU-BPSK	108	54	21.74	21.78	21.70	23.0	0.0		
40	RU-BPSK	108	108	21.72	21.81	21.84	23.0	0.0		
40	RU-BPSK	216	0	21.79	21.85	21.80	23.0	0.0		
40	QPSK	1	1	21.80	21.88	21.75				
40	QPSK	1	108	21.87	21.78	21.81	23.0	0.0		
40	QPSK	1	214	21.72	21.85	21.72				
40	QPSK	108	0	21.76	21.82	21.85	23.0	0.0		
40	QPSK	108	54	21.75	21.85	21.73	23.0	0.0		
40	QPSK	108	108	21.88	21.79	21.81	23.0	0.0		
40	QPSK	216	0	21.78	21.83	21.70				
40	16QAM	1	1	21.86	21.72	21.72	23.0	0.0		
40	16QAM	1	1	21.75	21.88	21.80	22.0	1.0		
40	256QAM	1	1	20.84	20.28	20.05	21.0	2.0		
Channel				345000	349000	353000				
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	21.75	21.84	21.81	23.0	0.0		
Channel				345000	349000	349000				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	1	21.89	21.78	21.81	23.0	0.0		
Channel				345000	349000	349000				
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	1	21.88	21.78	21.77	23.0	0.0		
Channel				345000	349000	349000				
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	21.72	21.72	21.80	23.0	0.0		
Channel				345000	349000	349000				
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	1	21.85	21.77	21.70	23.0	0.0		

n66_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Mid Ch. Freq.	Power High Ch. Freq.	Tune-up Int. (dBm)	MFR (dB)		
Channel				346000	349000	352000				
Frequency (MHz)				1745	1745	1745				
40	RU-BPSK	1	1	20.77	20.70	20.74				
40	RU-BPSK	1	108	20.70	20.81	20.78	22.0	0.0		
40	RU-BPSK	1	214	20.77	20.73	20.70				
40	RU-BPSK	108	0	20.88	20.78	20.89	22.0	0.0		
40	RU-BPSK	108	54	20.69	20.75	20.71	22.0	0.0		
40	RU-BPSK	108	108	20.88	20.84	20.75	22.0	0.0		
40	RU-BPSK	216	0	20.85	20.73	20.73	22.0	0.0		
40	QPSK	1	1	20.75	20.85	20.85				
40	QPSK	1	108	20.74	20.70	20.75	22.0	0.0		
40	QPSK	1	214	20.88	20.73	20.77				
40	QPSK	108	0	20.74	20.82	20.72	22.0	0.0		
40	QPSK	108	54	20.75	20.85	20.75	22.0	0.0		
40	QPSK	108	108	20.84	20.80	20.77	22.0	0.0		
40	QPSK	216	0	20.83	20.73	20.73	22.0	0.0		
40	16QAM	1	1	20.71	20.84	20.73	22.0	0.0		
40	16QAM	1	1	20.78	20.74	20.86	21.5	0.5		
40	256QAM	1	1	19.23	19.24	19.00	19.5	2.5		
Channel				345000	349000	349000				
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	20.85	20.75	20.88	22.0	0.0		
Channel				345000	349000	349000				
Frequency (MHz)				1720	1745	1770				
20	QPSK	1	1	20.78	20.82	20.72	22.0	0.0		
Channel				345000	349000	349000				
Frequency (MHz)				1717.5	1745	1772.5				
15	QPSK	1	1	20.83	20.85	20.86	22.0	0.0		
Channel				345000	349000	349000				
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	20.77	20.70	20.73	22.0	0.0		
Channel				345000	349000	349000				
Frequency (MHz)				1712.5	1745	1777.5				
5	QPSK	1	1	20.72	20.82	20.78	22.0	0.0		



Reduced Power Mode for Other PA DSI7

Band 4_Ant 2											
RW [MHz]	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Totalsub (dBm)	MPE (dB)			
Channel				20000	20175	20350					
20	QPSK	0	0	21.02	21.12	21.13					
20	QPSK	1	48	21.01	21.14	21.12	22.7	0			
20	QPSK	1	74	21.01	21.14	21.11					
20	QPSK	3	50	21.01	21.13	21.09					
20	QPSK	50	24	21.02	21.09	21.10	22.7	0			
20	QPSK	50	50	21.01	21.12	21.09					
20	QPSK	100	0	21.04	21.11	21.11					
20	HQAM	1	0	21.08	21.15	21.13					
20	HQAM	1	50	21.01	21.10	21.03	22.7	0			
20	HQAM	50	0	21.09	21.06	21.03					
20	HQAM	50	24	21.06	21.15	21.10					
20	HQAM	50	50	21.11	21.14	21.08	22.7	0			
20	HQAM	100	0	21.01	21.16	21.11					
20	HQAM	100	0	20.97	20.99	20.86					
20	HQAM	1	48	21.01	21.15	21.06					
20	HQAM	1	50	20.99	21.14	21.09					
20	HQAM	50	24	20.75	20.61	20.68	22	0.7			
20	HQAM	50	50	20.67	20.67	20.73					
20	HQAM	100	0	18.64	18.65	18.60					
20	HQAM	1	48	18.45	18.57	18.55	19	3.7			
20	HQAM	1	50	18.45	18.45	18.43					
20	HQAM	50	0	18.63	18.70	18.67					
20	HQAM	50	24	18.49	18.65	18.61	19	3.7			
20	HQAM	50	50	18.51	18.62	18.50					
20	HQAM	100	0	18.51	18.62	18.50					
Channel				20000	20175	20350	Totalsub (dBm)	MPE (dB)			
15	QPSK	0	0	21.01	21.14	21.00					
15	QPSK	1	47	20.96	21.13	21.06	22.7	0			
15	QPSK	1	74	20.96	21.12	21.06					
15	QPSK	3	50	21.02	21.08	21.01					
15	QPSK	38	20	20.91	20.98	21.01	22.7	0			
15	QPSK	38	20	20.91	21.03	21.04					
15	QPSK	75	0	20.93	21.13	21.04					
15	HQAM	1	0	21.02	21.09	21.02					
15	HQAM	1	50	20.91	21.06	21.01	22.7	0			
15	HQAM	38	0	21.08	20.93	20.91					
15	HQAM	38	20	20.97	20.96	20.96					
15	HQAM	38	50	21.01	21.11	21.01	22.7	0			
15	HQAM	75	0	20.90	21.10	21.02					
15	HQAM	75	0	20.94	21.04	21.04					
15	HQAM	1	47	20.95	21.05	20.93	22.7	0			
15	HQAM	1	74	20.89	21.12	21.03					
15	HQAM	38	20	20.83	20.97	20.91					
15	HQAM	38	50	20.85	20.93	20.71					
15	HQAM	38	50	20.85	20.93	20.71	22	0.7			
15	HQAM	38	50	20.83	20.80	20.76					
15	HQAM	75	0	18.20	18.52	18.47					
15	HQAM	1	47	18.30	18.56	18.54	19	3.7			
15	HQAM	1	50	18.30	18.45	18.36					
15	HQAM	38	0	18.28	18.65	18.63					
15	HQAM	38	20	18.26	18.50	18.57	19	3.7			
15	HQAM	38	50	18.26	18.57	18.54					
15	HQAM	75	0	18.46	18.49	18.45					
Channel				20000	20175	20350	Totalsub (dBm)	MPE (dB)			
10	QPSK	0	0	21.08	21.18	21.13					
10	QPSK	1	26	20.99	21.02	21.06	22.7	0			
10	QPSK	1	49	21.00	21.00	20.96					
10	QPSK	1	74	21.00	21.02	21.11					
10	QPSK	28	12	20.96	21.04	21.02					
10	QPSK	28	12	20.92	21.04	21.02					
10	QPSK	28	12	20.98	21.08	21.03					
10	HQAM	1	0	21.08	21.03	21.12					
10	HQAM	1	49	20.97	21.06	21.00	22.7	0			
10	HQAM	1	74	20.97	21.03	21.05					
10	HQAM	28	0	21.02	21.00	20.96					
10	HQAM	28	12	20.97	21.07	21.07	22.7	0			
10	HQAM	28	12	20.95	21.00	20.98					
10	HQAM	50	0	20.95	21.06	21.08					
10	HQAM	50	0	20.98	21.07	21.06					
10	HQAM	1	49	20.98	21.09	21.00	22.7	0			
10	HQAM	1	74	20.96	21.11	21.04					
10	HQAM	28	12	20.91	20.97	20.98					
10	HQAM	28	12	20.91	20.97	20.94	22	0.7			
10	HQAM	28	12	20.81	20.72	20.94					
10	HQAM	50	0	18.25	18.52	18.59					
10	HQAM	1	49	18.34	18.53	18.53	19	3.7			
10	HQAM	1	50	18.34	18.45	18.36					
10	HQAM	28	0	18.20	18.61	18.62					
10	HQAM	28	12	18.21	18.56	18.53	19	3.7			
10	HQAM	28	12	18.20	18.57	18.54					
10	HQAM	50	0	18.44	18.59	18.42					
Channel				19975	20175	20375	Totalsub (dBm)	MPE (dB)			
5	QPSK	0	0	20.98	21.08	21.02					
5	QPSK	1	12	20.92	21.03	20.97	22.7	0			
5	QPSK	1	24	20.96	21.12	21.04					
5	QPSK	1	49	20.96	21.01	20.99					
5	QPSK	12	7	20.94	20.99	21.03					
5	QPSK	12	7	20.94	20.99	21.03					
5	QPSK	12	7	20.94	20.99	21.03					
5	QPSK	12	7	20.94	20.99	21.03					
5	HQAM	1	0	21.03	21.12	21.06					
5	HQAM	1	24	20.97	21.05	21.06	22.7	0			
5	HQAM	1	49	20.97	21.05	20.97					
5	HQAM	12	0	21.07	21.03	20.99					
5	HQAM	12	7	20.99	21.04	21.06	22.7	0			
5	HQAM	12	7	20.97	21.10	21.05					
5	HQAM	25	0	20.98	21.03	21.00					
5	HQAM	25	0	20.98	21.03	21.00					
5	HQAM	1	12	20.97	21.01	21.04	22.7	0			
5	HQAM	1	24	20.94	21.03	21.04					
5	HQAM	12	7	20.98	21.03	20.96					
5	HQAM	12	7	20.95	20.75	21.00	22	0.7			
5	HQAM	12	13	20.87	20.69	20.98					
5	HQAM	12	13	20.86	20.67	20.96					
5	HQAM	1	0	18.51	18.58	18.59					
5	HQAM	1	12	18.33	18.51	18.50	19	3.7			
5	HQAM	1	25	18.26	18.65	18.58					
5	HQAM	12	7	18.45	18.55	18.55	19	3.7			
5	HQAM	12	13	18.25	18.51	18.51					
5	HQAM	25	0	18.38	18.59	18.45					
Channel				19975	20175	20375	Totalsub (dBm)	MPE (dB)			
3	QPSK	0	0	21.06	21.09	21.14					
3	QPSK	1	8	20.98	21.03	21.06	22.7	0			
3	QPSK	1	14	20.92	21.06	21.07					
3	QPSK	1	29	21.01	21.07	21.07					
3	QPSK	4	4	20.91	20.93	21.03					
3	QPSK	4	4	20.91	21.03	21.03					
3	QPSK	5	0	21.01	21.13	21.03					
3	HQAM	1	0	21.02	21.07	21.04					
3	HQAM	1	14	20.97	20.98	20.89	22.7	0			
3	HQAM	1	29	21.01	20.91	20.96					
3	HQAM	4	0	20.98	21.08	21.11					
3	HQAM	4	7	21.03	21.10	20.96	22.7	0			
3	HQAM	14	0	20.94	21.04	21.10					
3	HQAM	14	0	20.98	21.03	20.96					
3	HQAM	1	14	20.91	21.08	21.06	22.7	0			
3	HQAM	1	29	20.98	20.97	20.90					
3	HQAM	4	0	20.99	20.77	21.06	22	0.7			
3	HQAM	4	7	20.92	20.69	21.03					
3	HQAM	14	0	18.27	18.20	18.20					
3	HQAM	1	0	18.52	18.54	18.47					
3	HQAM	1	8	18.38	18.45	18.47	19	3.7			
3	HQAM	1	14	18.20	18.43	18.36					
3	HQAM	1	29	18.26	18.67	18.62					
3	HQAM	4	0	18.44	18.62	18.59	19	3.7			
3	HQAM	4	7	18.25	18.51	18.51					
3	HQAM	14	0	18.46	18.49	18.48					
Channel				19975	20175	20375	Totalsub (dBm)	MPE (dB)			
1.4	QPSK	0	0	21.11	21.13	21.03					
1.4	QPSK	1	5	20.87	21.01	21.05	22.7	0			
1.4	QPSK	1	5	21.01	21.03	21.11					
1.4	QPSK	1	5	21.01	21.03	21.11					
1.4	QPSK	3	1	20.87	20.98	20.95					
1.4	QPSK	3	1	20.98	21.07	21.06					
1.4	QPSK	5	0	20.94	21.05	21.07	22.7	0			
1.4	HQAM	1	0	21.06	21.13	20.98					



n2_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)									
20	PIQ BPSK	1	1	19.21	19.28	19.28			
20	PIQ BPSK	1	53	19.27	19.25	19.25	20.5	0.0	
20	PIQ BPSK	1	104	19.28	19.32	19.21			
20	PIQ BPSK	50	0	19.29	19.25	19.20	20.5	0.0	
20	PIQ BPSK	50	28	19.29	19.29	19.20	20.5	0.0	
20	PIQ BPSK	50	56	19.23	19.31	19.21	20.5	0.0	
20	PIQ BPSK	100	0	19.24	19.30	19.20			
20	QPSK	1	1	19.31	19.38	19.25			
20	QPSK	1	53	19.21	19.29	19.18	20.5	0.0	
20	QPSK	1	104	19.30	19.24	19.28			
20	QPSK	50	0	19.25	19.28	19.21	20.5	0.0	
20	QPSK	50	28	19.31	19.33	19.25	20.5	0.0	
20	QPSK	50	56	19.23	19.27	19.27	20.5	0.0	
20	QPSK	100	0	19.23	19.29	19.18	20.5	0.0	
20	16QAM	1	1	19.25	19.31	19.27	20.5	0.0	
20	16QAM	1	1	19.30	19.33	19.20	20.5	0.0	
20	256QAM	1	1	19.29	19.20	19.19	20.5	0.0	
Channel				371500	376000	380500	Tune-up Int (dBm)	MPR	
Frequency (MHz)									
15	QPSK	1	1	19.25	19.30	19.26	20.5	0.0	
Channel				371000	376000	381000	Tune-up Int (dBm)	MPR	
Frequency (MHz)									
10	QPSK	1	1	19.33	19.31	19.17	20.5	0.0	
Channel				370500	376000	381500	Tune-up Int (dBm)	MPR	
Frequency (MHz)									
5	QPSK	1	1	19.27	19.24	19.19	20.5	0.0	

n2_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)									
20	PIQ BPSK	1	1	13.99	14.10	14.01			
20	PIQ BPSK	1	53	14.06	14.02	13.99	15.5	0.0	
20	PIQ BPSK	1	104	13.93	13.99	14.02			
20	PIQ BPSK	50	0	14.00	14.00	13.99	15.5	0.0	
20	PIQ BPSK	50	28	13.96	14.03	13.97	15.5	0.0	
20	PIQ BPSK	50	56	13.94	14.07	14.03	15.5	0.0	
20	PIQ BPSK	100	0	14.00	13.97	13.97			
20	QPSK	1	1	14.03	14.12	14.02			
20	QPSK	1	53	14.04	14.02	13.97	15.5	0.0	
20	QPSK	1	104	13.98	14.00	14.00			
20	QPSK	50	0	13.95	14.07	13.95	15.5	0.0	
20	QPSK	50	28	14.07	14.10	14.03	15.5	0.0	
20	QPSK	50	56	13.97	13.99	13.96	15.5	0.0	
20	QPSK	100	0	13.98	14.02	13.97			
20	16QAM	1	1	13.99	14.01	13.93	15.5	0.0	
20	16QAM	1	1	14.07	14.00	14.02	15.5	0.0	
20	256QAM	1	1	13.96	14.07	13.97	15.5	0.0	
Channel				371500	376000	380500	Tune-up Int (dBm)	MPR	
Frequency (MHz)									
15	QPSK	1	1	13.93	14.11	13.95	15.5	0.0	
Channel				371000	376000	381000	Tune-up Int (dBm)	MPR	
Frequency (MHz)									
10	QPSK	1	1	13.99	13.98	14.02	15.5	0.0	
Channel				370500	376000	381500	Tune-up Int (dBm)	MPR	
Frequency (MHz)									
5	QPSK	1	1	13.99	14.02	13.99	15.5	0.0	



n66_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				1792	1745	1760				
40	PQ-BPSK	1	1	22.12	22.24	22.10				
40	PQ-BPSK	1	168	22.14	22.16	22.21	24.0	0.0		
40	PQ-BPSK	1	214	22.18	22.17	22.16				
40	PQ-BPSK	168	1	21.89	21.76	21.85	23.5	0.5		
40	PQ-BPSK	168	54	22.17	22.21	22.10	24.0	0.0		
40	PQ-BPSK	168	168	21.54	21.60	21.59	23.5	0.5		
40	PQ-BPSK	214	1	21.96	21.97	21.81				
40	QPSK	1	1	22.25	22.26	22.22	24.0	0.0		
40	QPSK	1	168	22.15	22.14	22.08				
40	QPSK	1	214	22.11	22.07	22.15				
40	QPSK	168	1	21.42	21.50	21.45	23.0	1.0		
40	QPSK	168	54	22.13	22.20	22.20	24.0	0.0		
40	QPSK	168	168	21.27	21.44	21.30	23.0	1.0		
40	QPSK	214	1	21.88	21.85	21.80	23.0	1.0		
40	16QAM	1	1	21.75	21.66	21.80	22.0	2.0		
40	16QAM	1	1	20.54	20.28	20.08	21.0	3.0		
Channel										
Frequency (MHz)				34900	34900	35300		MPR		
30	QPSK	1	1	22.13	22.26	22.08	24.0	0.0		
Channel										
Frequency (MHz)				34900	34900	35400		MPR		
30	QPSK	1	1	22.23	22.17	22.08	24.0	0.0		
Channel										
Frequency (MHz)				34950	34900	35450		MPR		
15	QPSK	1	1	22.15	22.13	22.11	24.0	0.0		
Channel										
Frequency (MHz)				34900	34900	35500		MPR		
15	QPSK	1	1	22.24	22.17	22.07	24.0	0.0		
Channel										
Frequency (MHz)				34950	34900	35500		MPR		
1	QPSK	1	1	22.19	22.13	22.12	24.0	0.0		

n66_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				1795	1745	1760				
40	PQ-BPSK	1	1	14.28	14.29	14.31				
40	PQ-BPSK	1	168	14.30	14.37	14.20	15.5	0.0		
40	PQ-BPSK	1	214	14.23	14.37	14.22				
40	PQ-BPSK	168	1	14.33	14.35	14.21	15.5	0.0		
40	PQ-BPSK	168	54	14.32	14.36	14.29	15.5	0.0		
40	PQ-BPSK	168	168	14.30	14.23	14.26	15.5	0.0		
40	PQ-BPSK	214	1	14.31	14.30	14.30				
40	QPSK	1	1	14.34	14.38	14.33				
40	QPSK	1	168	14.28	14.27	14.28	15.5	0.0		
40	QPSK	1	214	14.34	14.34	14.19				
40	QPSK	168	1	14.30	14.26	14.25	15.5	0.0		
40	QPSK	168	54	14.32	14.36	14.31	15.5	0.0		
40	QPSK	168	168	14.34	14.33	14.27	15.5	0.0		
40	QPSK	214	1	14.32	14.31	14.21				
40	16QAM	1	1	14.32	14.26	14.19	15.5	0.0		
40	16QAM	1	1	14.35	14.26	14.23	15.5	0.0		
40	256QAM	1	1	14.30	14.31	14.30	15.5	0.0		
Channel										
Frequency (MHz)				34900	34900	35300		MPR		
30	QPSK	1	1	14.30	14.28	14.23	15.5	0.0		
Channel										
Frequency (MHz)				34900	34900	35400		MPR		
30	QPSK	1	1	14.32	14.33	14.29	15.5	0.0		
Channel										
Frequency (MHz)				34950	34900	35450		MPR		
15	QPSK	1	1	14.30	14.28	14.30	15.5	0.0		
Channel										
Frequency (MHz)				34900	34900	35500		MPR		
15	QPSK	1	1	14.33	14.29	14.29	15.5	0.0		
Channel										
Frequency (MHz)				34950	34900	35500		MPR		
1	QPSK	1	1	14.28	14.25	14.18	15.5	0.0		



Wifi&BT power

Default							
Mode	Channel	Frequency (MHz)	Ant 8				
			Average power (dBm) 1Mbps	Tune-up Limit	Average power (dBm)		Tune-up Limit
					2Mbps	3Mbps	
BR / EDR	CH 00	2402	17.30	19.00	14.80	14.80	16.50
	CH 39	2441	17.80	19.50	15.10	15.10	17.00
	CH 76	2480	17.10	19.00	14.30	14.30	16.00

Standalone/Simultaneous							
Mode	Channel	Frequency (MHz)	Ant 8				
			Average power (dBm) 1Mbps	Tune-up Limit	Average power (dBm)		Tune-up Limit
					2Mbps	3Mbps	
BR / EDR	CH 00	2402	11.30	13.00	8.70	8.70	10.50
	CH 39	2441	12.25	14.00	9.40	9.50	11.00
	CH 76	2480	12.21	14.00	9.80	9.80	11.50

Default							
Mode	Channel	Frequency (MHz)	Ant 8				
			Average power (dBm) 1Mbps	Tune-up Limit	Average power (dBm)		Tune-up Limit
					2Mbps	3Mbps	
LE	CH 00	2402	7.67	9.00	7.66	7.66	9.00
	CH 19	2440	8.08	9.50	8.06	8.06	9.50
	CH 39	2480	9.06	10.50	9.03	9.03	10.50



2.4GHz WLAN			Default						For_Head Standalone						For_Head Simultaneous						
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)
802.11b 1Mbps	1	2412	20.55	21.50	20.10	21.50	23.34	24.50	18.19	19.00	17.72	19.00	21.07	22.00	15.51	16.50	15.16	16.50	18.45	19.50	
	6	2437	20.00	21.50	20.02	21.50	23.02	24.50	17.71	19.00	17.56	19.00	20.75	22.00	14.96	16.50	15.15	16.50	18.17	19.50	
	11	2462	20.15	21.50	20.01	21.50	23.09	24.50	17.85	19.00	17.68	19.00	20.88	22.00	15.09	16.50	15.03	16.50	18.17	19.50	
802.11g 6Mbps	1	2412	19.04	20.50	19.00	20.50	22.03	23.50	17.50	19.00	17.50	19.00	20.51	22.00	15.01	16.50	14.97	16.50	18.10	19.50	
	6	2437	19.00	20.50	19.01	20.50	22.02	23.50	17.51	19.00	17.45	19.00	20.49	22.00	14.94	16.50	14.91	16.50	18.04	19.50	
	11	2462	17.10	18.50	17.00	18.50	20.06	21.50	17.10	18.50	17.00	18.50	20.06	21.50	15.12	16.50	14.90	16.50	18.12	19.50	
802.11n-HT20 MCS0	1	2412	19.05	20.50	19.02	20.50	22.05	23.50	19.00	19.00	19.00	19.00	22.00	22.00	16.50	16.50	16.50	16.50	19.50	19.50	
	6	2437	19.01	20.50	19.02	20.50	22.03	23.50	19.00	19.00	19.00	19.00	22.00	22.00	16.50	16.50	16.50	16.50	19.50	19.50	
	11	2462	17.11	18.50	17.00	18.50	20.07	21.50	18.50	18.50	18.50	18.50	21.50	21.50	16.50	16.50	16.50	16.50	19.50	19.50	
802.11n-HT40 MCS0	3	2422	17.02	18.50	16.75	18.50	19.90	21.50	18.50	18.50	18.50	18.50	21.50	21.50	16.50	16.50	16.50	16.50	19.50	19.50	
	6	2437	18.29	19.50	18.18	19.50	21.25	22.50	18.50	18.50	18.50	18.50	21.50	21.50	16.50	16.50	16.50	16.50	19.50	19.50	
	8	2447	15.22	17.00	15.50	17.00	18.37	20.00	17.00	17.00	17.00	17.00	20.00	20.00	16.50	16.50	16.50	16.50	19.50	19.50	
802.11ac-VHT20 MCS0	1	2412		19.50		19.50		22.50		19.00		19.00		22.00		16.50		16.50		19.50	19.50
	6	2437		19.50		19.50		22.50		19.00		19.00		22.00		16.50		16.50		19.50	19.50
	11	2462	Not Required	19.50	Not Required	19.50	Not Required	22.50	Not Required	19.00	Not Required	19.00	Not Required	22.00	Not Required	16.50	Not Required	16.50	Not Required	19.50	19.50
802.11ac-VHT40 MCS0	3	2422		19.50		19.50		22.50		18.50		18.50		21.50		16.50		16.50		19.50	19.50
	6	2437		19.50		19.50		22.50		18.50		18.50		21.50		16.50		16.50		19.50	19.50
	9	2452		19.50		19.50		22.50		18.50		18.50		21.50		16.50		16.50		19.50	19.50
802.11ax-HE20 MCS0	1	2412	18.15	19.50	18.02	19.50	21.10	22.50	19.00	19.00	19.00	19.00	22.00	22.00	16.50	16.50	16.50	16.50	19.50	19.50	
	6	2437	18.06	19.50	18.05	19.50	21.07	22.50	19.00	19.00	19.00	19.00	22.00	22.00	16.50	16.50	16.50	16.50	19.50	19.50	
	11	2462	16.04	17.50	15.94	17.50	19.00	20.50	17.50	17.50	17.50	17.50	20.50	20.50	16.50	16.50	16.50	16.50	19.50	19.50	
802.11ax-HE40 MCS0	3	2422	16.59	18.00	16.50	18.00	19.56	21.00	18.50	18.50	18.50	18.50	21.50	21.50	16.50	16.50	16.50	16.50	19.50	19.50	
	6	2437	18.03	19.50	18.01	19.50	21.03	22.50	18.50	18.50	18.50	18.50	21.50	21.50	16.50	16.50	16.50	16.50	19.50	19.50	
	9	2452	15.06	16.50	15.04	16.50	18.06	19.50	16.50	16.50	16.50	16.50	19.50	19.50	16.50	16.50	16.50	16.50	19.50	19.50	

5.2GHz WLAN			Default						For_Head Standalone						For_Head Simultaneous						
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)
802.11a 6Mbps	36	5180	16.68	18.00	16.71	18.00	19.71	21.00	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
	40	5200	17.66	19.00	18.16	19.00	20.93	22.00	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
	44	5220	16.43	18.00	17.15	18.00	19.82	21.00	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
	48	5240	16.31	18.00	17.17	18.00	19.77	21.00	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
802.11n-HT20 MCS0	36	5180	17.56	19.50	17.92	19.50	20.75	22.50	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
	40	5200	17.58	19.50	17.91	19.50	20.76	22.50	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
	44	5220	17.58	19.50	18.09	19.50	20.85	22.50	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
	48	5240	17.56	19.50	18.06	19.50	20.83	22.50	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
802.11n-HT40 MCS0	38	5190	15.04	16.50	15.19	16.50	18.12	19.50	Not Required	15.00	Not Required	15.00	Not Required	18.00	Not Required	11.50	Not Required	11.50	Not Required	14.50	14.50
	46	5230	17.55	19.50	18.10	19.50	20.84	22.50	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
802.11ac-VHT20 MCS0	36	5180		19.50		19.50		22.50		15.00		15.00		18.00		11.50		11.50		14.50	14.50
	40	5200		19.50		19.50		22.50		15.00		15.00		18.00		11.50		11.50		14.50	14.50
	44	5220	Not Required	19.50	Not Required	19.50	Not Required	22.50	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
	48	5240		19.50		19.50		22.50		15.00		15.00		18.00		11.50		11.50		14.50	14.50
802.11ac-VHT40 MCS0	38	5190		19.50		19.50		22.50		15.00		15.00		18.00		11.50		11.50		14.50	14.50
	46	5230		19.50		19.50		22.50		15.00		15.00		18.00		11.50		11.50		14.50	14.50
802.11ac-VHT80 MCS0	42	5210	14.16	16.00	14.10	16.00	17.15	19.00	13.18	15.00	13.16	15.00	16.28	18.00	9.51	11.50	9.68	11.50	12.71	14.50	14.50
802.11ax-HE20 MCS0	36	5180	17.66	19.50	18.00	19.50	20.84	22.50	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
	40	5200	17.61	19.50	18.05	19.50	20.85	22.50	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
	44	5220	17.65	19.50	18.23	19.50	20.96	22.50	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
	48	5240	17.68	19.50	18.12	19.50	20.92	22.50	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
802.11ax-HE40 MCS0	38	5190	15.10	16.50	15.28	16.50	18.20	19.50	Not Required	15.00	Not Required	15.00	Not Required	18.00	Not Required	11.50	Not Required	11.50	Not Required	14.50	14.50
	46	5230	17.65	19.50	18.27	19.50	20.98	22.50	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	
802.11ax-HE80 MCS0	42	5210	14.20	16.00	14.22	16.00	17.22	19.00	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50	

5.3GHz WLAN			Default						For_Head Standalone						For_Head Simultaneous					
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
802.11a 6Mbps	52	5260	16.21	18.00	17.25	18.00	19.77	21.00	15.00	15.00	15.00	15.00	18.00	18.00	11.50	11.50	11.50	11.50	14.50	14.50
	56	5280	17.49	19.00	18.41	19.00	20.98	22.00	15.00	15.00	15.00</									



5.5GHz WLAN				Default						For_Head Standalone						For_Head Simultaneous					
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	
802.11a 6Mbps	100	5500	16.53	18.00	16.33	18.00	19.44	21.00	14.50		14.50		17.50		11.00		11.00		14.00		
	116	5590	16.83	18.50	16.55	18.50	19.70	21.50	14.50		14.50		17.50		11.00		11.00		14.00		
	124	5620	17.52	19.50	18.07	19.50	20.81	22.50	14.50		14.50		17.50		11.00		11.00		14.00		
	132	5660	17.49	19.00	18.06	19.00	20.79	22.00	14.50		14.50		17.50		11.00		11.00		14.00		
	140	5700	16.23	18.00	17.14	18.00	19.72	21.00	14.50		14.50		17.50		11.00		11.00		14.00		
	144	5720	15.73	17.50	17.12	17.50	19.49	20.50	14.50		14.50		17.50		11.00		11.00		14.00		
802.11n-HT20 MCS0	100	5500	16.62	18.00	16.18	18.00	19.41	21.00	14.50		14.50		17.50		11.00		11.00		14.00		
	116	5590	18.07	19.50	17.75	19.50	20.92	22.50	14.50		14.50		17.50		11.00		11.00		14.00		
	124	5620	17.27	19.00	18.02	19.00	20.67	22.00	14.50		14.50		17.50		11.00		11.00		14.00		
	132	5660	17.34	19.00	17.99	19.00	20.69	22.00	14.50		14.50		17.50		11.00		11.00		14.00		
	140	5700	16.57	18.50	17.12	18.50	19.83	21.50	14.50		14.50		17.50		11.00		11.00		14.00		
	144	5720	17.15	19.00	18.16	19.00	20.69	22.00	14.50		14.50		17.50		11.00		11.00		14.00		
802.11n-HT40 MCS0	102	5510	14.62	15.50	13.89	15.50	17.31	18.50	14.50		14.50		17.50		11.00		11.00		14.00		
	110	5550	18.13	19.50	17.54	19.50	20.81	22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
	126	5630	17.58	19.50	17.51	19.50	20.56	22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
	134	5670	17.20	19.00	17.56	19.00	20.41	22.00	Not Required		Not Required		17.50		11.00		11.00		14.00		
	142	5710	17.52	19.50	18.21	19.50	20.89	22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
	100	5500		19.50		19.50		22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
802.11ac-VHT20 MCS0	116	5590		19.50		19.50		22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
	124	5620		19.00		19.00		22.00	Not Required		Not Required		17.50		11.00		11.00		14.00		
	132	5660		19.00		19.00		22.00	Not Required		Not Required		17.50		11.00		11.00		14.00		
	140	5700		19.00		19.00		22.00	Not Required		Not Required		17.50		11.00		11.00		14.00		
	144	5720	Not Required	19.00	Not Required	19.00	Not Required	22.00	Not Required		Not Required		17.50		11.00		11.00		14.00		
	102	5510		19.50		19.50		22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
802.11ac-VHT40 MCS0	110	5550		19.50		19.50		22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
	126	5630		19.50		19.50		22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
	134	5670		19.50		19.50		22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
	142	5710		19.50		19.50		22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
802.11ac-VHT80 MCS0	106	5530	13.89	14.50	12.84	14.50	16.41	17.50	13.89	14.50	12.84	14.50	16.41	17.50	11.00		11.00		14.00		
	122	5610	17.61	18.50	16.56	18.50	20.13	21.50	13.45	14.50	12.59	14.50	16.15	17.50	11.00		11.00		14.00		
	138	5690	17.29	18.50	17.26	18.50	20.29	21.50	13.59	14.50	13.01	14.50	16.42	17.50	11.00		11.00		14.00		
802.11ac-VHT160 MCS0	114	5570	12.45	13.50	11.50	13.50	15.01	16.50		13.50		13.50	16.50	10.26	11.00	9.52	11.00	13.02	14.00		
	100	5500	16.70	18.00	16.22	18.00	19.48	21.00		14.50		14.50	17.50		11.00		11.00		14.00		
802.11ax-HE20 MCS0	116	5590	18.25	19.50	17.82	19.50	21.05	22.50		14.50		14.50	17.50		11.00		11.00		14.00		
	124	5620	17.39	19.00	18.06	19.00	20.75	22.00		14.50		14.50	17.50		11.00		11.00		14.00		
	132	5660	17.37	19.00	18.05	19.00	20.73	22.00		14.50		14.50	17.50		11.00		11.00		14.00		
	140	5700	16.60	18.50	17.15	18.50	19.89	21.50		14.50		14.50	17.50		11.00		11.00		14.00		
	144	5720	17.23	19.00	18.30	19.00	20.81	22.00		14.50		14.50	17.50		11.00		11.00		14.00		
	102	5510	14.68	15.50	13.95	15.50	17.34	18.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
802.11ax-HE40 MCS0	110	5550	18.25	19.50	17.55	19.50	20.92	22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
	126	5630	17.64	19.50	17.56	19.50	20.61	22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
	134	5670	17.23	19.00	17.60	19.00	20.43	22.00	Not Required		Not Required		17.50		11.00		11.00		14.00		
	142	5710	17.57	19.50	18.35	19.50	20.99	22.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
	106	5530	13.95	14.50	12.88	14.50	16.46	17.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
	122	5610	17.78	18.50	16.76	18.50	20.31	21.50	Not Required		Not Required		17.50		11.00		11.00		14.00		
802.11ax-HE80 MCS0	138	5690	17.40	19.00	17.30	19.00	20.36	22.00	Not Required		Not Required		17.50		11.00		11.00		14.00		
	114	5570	12.50	13.50	11.52	13.50	15.05	16.50	Not Required		Not Required		17.50		11.00		11.00		14.00		

5.8GHz WLAN				Default						For_Head Standalone						For_Head Simultaneous					
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	
802.11a 6Mbps	149	5745	17.65	19.50	18.37	19.50	21.04	22.50		14.50		14.50	17.50		10.00		10.00		13.00		
	157	5785	17.73	19.50	18.49	19.50	21.14	22.50		14.50		14.50	17.50		10.00		10.00		13.00		
	165	5825	17.58	19.50	18.46	19.50	21.05	22.50		14.50		14.50	17.50		10.00		10.00		13.00		
802.11n-HT20 MCS0	149	5745	17.52	19.50	18.11	19.50	20.84	22.50		14.50		14.50	17.50		10.00		10.00		13.00		
	157	5785	17.59	19.50	18.28	19.50	20.96	22.50		14.50		14.50	17.50		10.00		10.00		13.00		
	165	5825	17.51	19.50	18.33	19.50	20.95	22.50	Not Required		Not Required		17.50		10.00		10.00		13.00		
802.11n-HT40 MCS0	151	5755	17.65	19.50	18.30	19.50	21.05	22.50	Not Required		Not Required		17.50		10.00		10.00		13.00		
	159	5795	17.51	19.50	18.26	19.50	20.91	22.50	Not Required		Not Required		17.50		10.00		10.00		13.00		
	149	5745		19.50		19.50		22.50	Not Required		Not Required		17.50		10.00		10.00		13.00		
802.11ac-VHT20 MCS0	157	5785		19.50		19.50		22.50	Not Required		Not Required		17.50		10.00		10.00		13.00		
	165	5825	Not Required	19.50	Not Required	19.50	Not Required	22.50	Not Required		Not Required		17.50		10.00		10.00		13.00		
	151	5755		19.50		19.50		22.50	Not Required		Not Required		17.50		10.00		10.00		13.00		
802.11ac-VHT40 MCS0	159	5795		19.50		19.50		22.50	Not Required		Not Required		17.50		10.00		10.00		13.00		
	155	5775	17.11	19.00	17.89	19.00	20.54	22.00	13.16	14.50	13.74	14.50	16.57	17.50	8.71	10.00	9.62	10.00	12.30	13.00	
802.11ax-HE																					



2.4GHz WLAN			For_Body Standalone						For_Body Simultaneous						For_Extirmitry Standalone					
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
802.11b 1Mbps	1	2412	18.09	19.00	17.71	19.00	21.01	22.00	16.12	17.00	15.61	17.00	18.98	20.00	19.55	20.50	19.51	20.50	22.64	23.50
	6	2437	17.42	19.00	17.41	19.00	20.53	22.00	15.48	17.00	15.42	17.00	18.56	20.00	19.16	20.50	19.11	20.50	22.25	23.50
	11	2462	17.53	19.00	17.51	19.00	20.63	22.00	15.47	17.00	15.46	17.00	18.58	20.00	19.15	20.50	19.12	20.50	22.25	23.50
802.11g 6Mbps	1	2412	17.59	19.00	17.57	19.00	20.89	22.00	15.52	17.00	15.37	17.00	18.56	20.00	19.04	20.50	19.00	20.50	22.03	23.50
	6	2437	17.59	19.00	17.51	19.00	20.66	22.00	15.46	17.00	15.46	17.00	18.57	20.00	19.00	20.50	19.01	20.50	22.02	23.50
	11	2462	17.10	18.50	17.00	18.50	20.06	21.50	15.54	17.00	15.47	17.00	18.62	20.00	17.10	18.50	17.00	18.50	20.06	21.50
802.11n-HT20 MCS0	1	2412		19.00		19.00		22.00		17.00		17.00		20.00		20.50		20.50		23.50
	6	2437		19.00		19.00		22.00		17.00		17.00		20.00		20.50		20.50		23.50
	11	2462		18.50		18.50		21.50		17.00		17.00		20.00		18.50		18.50		21.50
802.11n-HT40 MCS0	3	2422		18.50		18.50		21.50		17.00		17.00		20.00		18.50		18.50		21.50
	6	2437		18.50		18.50		21.50		17.00		17.00		20.00		19.50		19.50		22.50
	8	2447		17.00		17.00		20.00		17.00		17.00		20.00		17.00		17.00		20.00
802.11ac-VHT20 MCS0	1	2412		19.00		19.00		22.00		17.00		17.00		20.00		19.50		19.50		22.50
	6	2437		19.00		19.00		22.00		17.00		17.00		20.00		19.50		19.50		22.50
	11	2462	Not Required	19.00	Not Required	19.00	Not Required	22.00	Not Required	17.00	Not Required	17.00	Not Required	20.00	Not Required	19.50	Not Required	19.50	Not Required	22.50
802.11ac-VHT40 MCS0	3	2422		18.50		18.50		21.50		17.00		17.00		20.00		19.50		19.50		22.50
	6	2437		18.50		18.50		21.50		17.00		17.00		20.00		19.50		19.50		22.50
	9	2452		16.50		16.50		19.50		17.00		17.00		20.00		19.50		19.50		22.50
802.11ax-HE20 MCS0	1	2412		19.00		19.00		22.00		17.00		17.00		20.00		19.50		19.50		22.50
	6	2437		19.00		19.00		22.00		17.00		17.00		20.00		19.50		19.50		22.50
	11	2462		17.50		17.50		20.50		17.00		17.00		20.00		17.50		17.50		20.50
802.11ax-HE40 MCS0	3	2422		18.50		18.50		21.50		17.00		17.00		20.00		18.00		18.00		21.00
	6	2437		18.50		18.50		21.50		17.00		17.00		20.00		19.50		19.50		22.50
	9	2452		16.50		16.50		19.50		16.50		16.50		19.50		16.50		16.50		19.50

5.2GHz WLAN			For_Body Standalone						For_Body Simultaneous						For_Extirmitry Standalone					
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
802.11a 6Mbps	36	5180		17.00		17.00		20.00		13.00		13.00		16.00		18.00		18.00		21.00
	40	5200		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
	44	5220		17.00		17.00		20.00		13.00		13.00		16.00		18.00		18.00		21.00
802.11n-HT20 MCS0	48	5240	Not Required	17.00	Not Required	17.00	Not Required	20.00	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required	18.00	Not Required	18.00	Not Required	21.00
	36	5180		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
	40	5200		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
802.11n-HT40 MCS0	44	5220		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
	48	5240		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
	38	5190		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
802.11ac-VHT20 MCS0	46	5230	15.04	16.50	15.19	16.50	18.12	19.50	Not Required	13.00	Not Required	13.00	Not Required	16.00	15.04	16.50	15.19	16.50	18.12	19.50
	36	5180		17.00		17.00		20.00		13.00		13.00		16.00	17.41	19.00	17.58	19.00	20.61	22.00
	40	5200		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
802.11ac-VHT40 MCS0	44	5220		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
	48	5240		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
	38	5190		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
802.11ax-HE20 MCS0	46	5230		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
	42	5210	Not Required	16.00	Not Required	16.00	Not Required	19.00	11.32	13.00	11.28	13.00	14.41	16.00	Not Required	16.00	Not Required	16.00	Not Required	19.00
	36	5180		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
802.11ax-HE40 MCS0	40	5200		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
	44	5220		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
	48	5240		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
802.11ax-HE80 MCS0	38	5190		16.50		16.50		19.50	Not Required	13.00	Not Required	13.00	Not Required	16.00		16.50		16.50		19.50
	46	5230		17.00		17.00		20.00		13.00		13.00		16.00		19.00		19.00		22.00
	42	5210		16.00		16.00		19.00		13.00		13.00		16.00		16.00		16.00		19.00

5.3GHz WLAN			For_Body Standalone						For_Body Simultaneous						For_Extirmitry Standalone					
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
802.11a 6Mbps	52	5260		17.00		17.00		20.00		13.00		13.00		16.00		18.00		18.00		21.00
	56	5280		17.00		17.00		20.00		13.00		13.00		16.00		18.50		18.50		21.50
	60	5300		17.00		17.00		20.00		13.00		13.00		16.00		18.00		18.00		21.00
802.11n-HT20 MCS0	64	5320	Not Required	17.00	Not Required	17.00	Not Required	20.00	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required	18.00	Not Required	18.00	Not Required	21.00
	52	5260		17.00		17.00		20.00		13.00		13.00		16.00		18.50		18.50		21.50
	56	5280		17.00		17.00		20.00		13.00		13.00		16.00		18.50		18.50		21.50
802.11n-HT40 MCS0	60	5300		17.00		17.00		20.00		13.00		13.00		16.00		18.50		18.50		21.50
	64	5320		17.00		17.00		20.00		13.00		13.00		16.00		17.50		17.50		20.50
	54	5270		17.00		17.00		20.00		13.00		13.00		16.00		18.50		18.50		21.50
802.11ac-VHT20 MCS0	58	5290	15.59	17.00	15.86	17.00	18.84	19.50	Not Required	13.00	Not Required	13.00	Not Required	16.00	16.94	18.50	17.41	18.50	20.29	21.50
	62	5310	14.56	16.50	15.42	16.50	18.03	19.50	Not Required	13.00	Not Required	13.00	Not Required	16.00	14.56</					

5.5GHz WLAN			For_Body Standalone						For_Body Simultaneous						For_Extrimity Standalone					
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
802.11a 6Mbps	100	5500		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	116	5580		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	124	5620		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	132	5660		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	140	5700		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
802.11n-HT20 MCSO	144	5720		15.50		15.50		18.50		13.00		13.00		16.00		17.50		17.50		20.50
	100	5500		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	116	5580		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	124	5620		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	132	5660		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
802.11n-HT40 MCSO	140	5700		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	144	5720		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	102	5510		15.50		15.50		18.50		13.00		13.00		16.00		15.50		15.50		18.50
	110	5550	Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required	18.00	Not Required	18.00	Not Required	21.00
	126	5630		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
802.11ac-VHT20 MCSO	134	5670		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	142	5710		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	100	5500		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	116	5580		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	124	5620		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
802.11ac-VHT40 MCSO	132	5660		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	140	5700		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	144	5720		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	102	5510		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	110	5550		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
802.11ax-VHT80 MCSO	126	5630		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	134	5670		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	142	5710		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	106	5530	13.89	14.50	12.84	14.50	16.41	17.50		13.00		13.00		16.00	13.89	14.50	12.84	14.50	16.41	17.50
	122	5610	14.85	15.50	13.87	15.50	17.50	18.50		13.00		13.00		16.00	17.54	18.00	16.42	18.00	20.13	21.00
802.11ax-VHT160 MCSO	138	5690	14.56	15.50	14.32	15.50	17.55	18.50		13.00		13.00		16.00	17.31	18.00	16.68	18.00	20.12	21.00
	114	5570		13.50		13.50		16.50	12.01	13.00	11.37	13.00	14.81	16.00		13.50		13.50		16.50
	100	5500		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
802.11ax-HE20 MCSO	116	5580		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	124	5620		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	132	5660		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	140	5700		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	144	5720		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
802.11ax-HE40 MCSO	102	5510	Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required	15.50	Not Required	15.50	Not Required	18.50
	110	5550		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	126	5630		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	134	5670		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	142	5710		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
802.11ax-HE80 MCSO	106	5530		14.50		14.50		17.50		13.00		13.00		16.00		14.50		14.50		17.50
	122	5610		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
	138	5690		15.50		15.50		18.50		13.00		13.00		16.00		18.00		18.00		21.00
802.11ax-HE160 MCSO	114	5570		13.50		13.50		16.50		13.00		13.00		16.00		13.50		13.50		16.50

5.8GHz WLAN			For_Body Standalone						For_Body Simultaneous						For_Extrimity Standalone					
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
802.11a 6Mbps	149	5745		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
	157	5785		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
	165	5825		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
802.11n-HT20 MCSO	149	5745		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
	157	5785		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
	165	5825		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
802.11n-HT40 MCSO	151	5755	Not Required	16.50	Not Required	16.50	Not Required	19.50	Not Required	13.00	Not Required	13.00	Not Required	16.00	17.58	19.00	18.06	19.00	20.94	22.00
	159	5795		16.50		16.50		19.50		13.00		13.00		16.00	17.51	19.00	18.26	19.00	20.91	22.00
	149	5745		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
802.11ac-VHT20 MCSO	157	5785		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
	165	5825		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
	151	5755		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
802.11ac-VHT40 MCSO	159	5795		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
	155	5775	15.19	16.50	15.98	16.50	18.71	19.50	11.94	13.00	12.51	13.00	15.34	16.00		19.00	Not Required	19.00	Not Required	22.00
	149	5745		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
802.11ax-HE20 MCSO	157	5785		16.50		16.50		19.50		13.00		13.00		16.00		19.00		19.00		22.00
	165	5825		16.50		16.50		19.50		13.00	</									



2.4GHz WLAN			For_Extremity Simultaneous						For_Hotspot						Duty Cycle %
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	
802.11b 1Mbps	1	2412	14.53	15.50	14.36	15.50	17.56	18.50	16.12	17.00	15.61	17.00	18.98	20.00	100.00
	6	2437	14.42	15.50	14.09	15.50	17.37	18.50	15.48	17.00	15.42	17.00	18.56	20.00	
	11	2462	14.06	15.50	14.06	15.50	17.17	18.50	15.47	17.00	15.46	17.00	18.58	20.00	
802.11g 6Mbps	1	2412	13.94	15.50	13.97	15.50	17.07	18.50	15.52	17.00	15.37	17.00	18.56	20.00	99.18
	6	2437	13.97	15.50	13.91	15.50	17.05	18.50	15.46	17.00	15.46	17.00	18.57	20.00	
	11	2462	14.26	15.50	14.11	15.50	17.30	18.50	15.54	17.00	15.47	17.00	18.62	20.00	
802.11n-HT20 MCS0	1	2412		15.50		15.50		18.50		17.00		17.00		20.00	100.00
	6	2437		15.50		15.50		18.50		17.00		17.00		20.00	
	11	2462		15.50		15.50		18.50		17.00		17.00		20.00	
802.11n-HT40 MCS0	3	2422		15.50		15.50		18.50		17.00		17.00		20.00	100.00
	6	2437		15.50		15.50		18.50		17.00		17.00		20.00	
	8	2447		15.50		15.50		18.50		17.00		17.00		20.00	
	9	2452		15.50		15.50		18.50		16.00		16.00		19.00	
	11	2462		15.50		15.50		18.50		17.00		17.00		20.00	
802.11ac-VHT20 MCS0	1	2412	Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required	17.00	Not Required	17.00	Not Required	20.00	100.00
	6	2437		15.50		15.50		18.50		17.00		17.00		20.00	
	11	2462		15.50		15.50		18.50		17.00		17.00		20.00	
802.11ac-VHT40 MCS0	3	2422	Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required	17.00	Not Required	17.00	Not Required	20.00	100.00
	6	2437		15.50		15.50		18.50		17.00		17.00		20.00	
	9	2452		15.50		15.50		18.50		17.00		17.00		20.00	
802.11ax-HE20 MCS0	1	2412	Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required	17.00	Not Required	17.00	Not Required	20.00	100.00
	6	2437		15.50		15.50		18.50		17.00		17.00		20.00	
	11	2462		15.50		15.50		18.50		17.00		17.00		20.00	
802.11ax-HE40 MCS0	3	2422	Not Required	15.50	Not Required	15.50	Not Required	18.50	Not Required	17.00	Not Required	17.00	Not Required	20.00	100.00
	6	2437		15.50		15.50		18.50		17.00		17.00		20.00	
	9	2452		15.50		15.50		18.50		17.00		17.00		20.00	

5.2GHz WLAN			For_Extremity Simultaneous						For_Hotspot						Duty Cycle %
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7		
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	
802.11a 6Mbps	36	5180	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required	13.50	Not Required	13.50	Not Required	16.50	99.32
	40	5200		13.00		13.00		16.00		13.50		13.50		16.50	
	44	5220		13.00		13.00		16.00		13.50		13.50		16.50	
	48	5240		13.00		13.00		16.00		13.50		13.50		16.50	
802.11n-HT20 MCS0	36	5180	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00
	40	5200		13.00		13.00		16.00		13.50		13.50		16.50	
	44	5220		13.00		13.00		16.00		13.50		13.50		16.50	
	48	5240		13.00		13.00		16.00		13.50		13.50		16.50	
802.11n-HT40 MCS0	38	5190	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00
	46	5230		13.00		13.00		16.00		13.50		13.50		16.50	
	36	5180		13.00		13.00		16.00		13.50		13.50		16.50	
802.11ac-VHT20 MCS0	40	5200	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00
	44	5220		13.00		13.00		16.00		13.50		13.50		16.50	
	48	5240		13.00		13.00		16.00		13.50		13.50		16.50	
	38	5190		13.00		13.00		16.00		13.50		13.50		16.50	
802.11ac-VHT40 MCS0	38	5190	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00
	46	5230		13.00		13.00		16.00		13.50		13.50		16.50	
802.11ax-HE20 MCS0	42	5210	Not Required	11.89	Not Required	11.58	Not Required	14.85	Not Required	11.81	Not Required	11.84	Not Required	14.94	100.00
	36	5180		13.00		13.00		16.00		13.50		13.50		16.50	
802.11ax-HE40 MCS0	40	5200	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00
	44	5220		13.00		13.00		16.00		13.50		13.50		16.50	
	48	5240		13.00		13.00		16.00		13.50		13.50		16.50	
	38	5190		13.00		13.00		16.00		13.50		13.50		16.50	
802.11ax-HE80 MCS0	46	5230	Not Required	13.00	Not Required	13.00	Not Required	16.00	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00
	42	5210		13.00		13.00		16.00		13.50		13.50		16.50	

5.3GHz WLAN			For_Extremity Simultaneous						Duty Cycle %	
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7			
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit		
802.11a 6Mbps	52	5260	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	
	56	5280		13.50		13.50		16.50		16.50
	60	5300		13.50		13.50		16.50		16.50
	64	5320		13.50		13.50		16.50		16.50
802.11n-HT20 MCS0	52	5260	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	
	56	5280		13.50		13.50		16.50		16.50
	60	5300		13.50		13.50		16.50		16.50
	64	5320		13.50		13.50		16.50		16.50
802.11n-HT40 MCS0	54	5270	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	
	62	5310		13.50		13.50		16.50		16.50
802.11ac-VHT20 MCS0	52	5260	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	
	56	5280		13.50		13.50		16.50		16.50
	60	5300		13.50		13.50		16.50		16.50
	64	5320		13.50		13.50		16.50		16.50
802.11ac-VHT40 MCS0	54	5270	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	
	62	5310		13.50		13.50		16.50		16.50
802.11ac-VHT80 MCS0	58	5290	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	
	50	5250		11.91		11.89		15.01		16.50
802.11ax-HE20 MCS0	52	5260	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	
	56	5280		13.50		13.50		16.50		16.50
	60	5300		13.50		13.50		16.50		16.50
	64	5320		13.50		13.50		16.50		16.50
802.11ax-HE40 MCS0	54	5270	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	
	62	5310		13.50		13.50		16.50		16.50
802.11ax-HE80 MCS0	58	5290	Not Required	13.50	Not Required	13.50	Not Required	16.50	100.00	
	50	5250		13.50		13.50		16.50		16.50



5.5GHz WLAN			For_Extremity Simultaneous						Duty Cycle %															
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7																	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit																
802.11a 6Mbps	100	5500	Not Required	13.00	Not Required	13.00	Not Required	16.00	99.32															
	116	5580		13.00		13.00		16.00																
	124	5620		13.00		13.00		16.00																
	132	5660		13.00		13.00		16.00																
	140	5700		13.00		13.00		16.00																
144	5720	13.00		13.00		16.00																		
802.11n-HT20 MCS0	100	5500		Not Required		13.00		Not Required		13.00	Not Required	16.00	100.00											
	116	5580				13.00				13.00		16.00												
	124	5620				13.00				13.00		16.00												
	132	5660				13.00				13.00		16.00												
	140	5700				13.00				13.00		16.00												
144	5720	13.00				13.00				16.00														
802.11n-HT40 MCS0	102	5510				Not Required				13.00		Not Required		13.00	Not Required	16.00	100.00							
	110	5550								13.00				13.00		16.00								
	126	5630								13.00				13.00		16.00								
	134	5670								13.00				13.00		16.00								
	142	5710								13.00				13.00		16.00								
802.11ac-VHT20 MCS0	100	5500								Not Required				13.00		Not Required		13.00	Not Required	16.00	100.00			
	116	5580												13.00				13.00		16.00				
	124	5620												13.00				13.00		16.00				
	132	5660	13.00		13.00		16.00																	
	140	5700	13.00		13.00		16.00																	
144	5720	13.00	13.00		16.00																			
802.11ac-VHT40 MCS0	102	5510	Not Required		13.00		Not Required		13.00					Not Required				16.00		100.00				
	110	5550			13.00				13.00									16.00						
	126	5630			13.00				13.00									16.00						
	134	5670		13.00	13.00			16.00																
	142	5710		13.00	13.00			16.00																
802.11ac-VHT80 MCS0	106	5530		Not Required	13.00			Not Required	13.00		Not Required		16.00					100.00						
	122	5610			13.00				13.00				16.00											
	138	5690			13.00				13.00				16.00											
802.11ac-VHT160 MCS0	114	5570			12.02				13.00				11.16									13.00	14.72	16.00
802.11ax-HE20 MCS0	100	5500			Not Required	13.00			Not Required			13.00	Not Required		16.00		100.00							
	116	5580				13.00						13.00			16.00									
	124	5620				13.00						13.00			16.00									
	132	5660				13.00						13.00			16.00									
	140	5700				13.00						13.00			16.00									
144	5720	13.00				13.00				16.00														
802.11ax-HE40 MCS0	102	5510				Not Required				13.00		Not Required			13.00	Not Required			16.00		100.00			
	110	5550								13.00					13.00				16.00					
	126	5630								13.00					13.00				16.00					
	134	5670								13.00					13.00				16.00					
	142	5710								13.00					13.00				16.00					
802.11ax-HE80 MCS0	106	5530	Not Required				13.00			Not Required				13.00	Not Required				16.00	100.00				
	122	5610					13.00							13.00					16.00					
	138	5690					13.00							13.00					16.00					
802.11ax-HE160 MCS0	114	5570					13.00							13.00					13.00			13.00	16.00	100.00

5.8GHz WLAN			For_Extremity Simultaneous						For_Hotspot						Duty Cycle %																																										
Mode	Channel	Frequency (MHz)	Ant 8		Ant 7		Ant 8+7		Ant 8		Ant 7		Ant 8+7																																												
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit																																											
802.11a 6Mbps	149	5745	Not Required	12.50	Not Required	12.50	Not Required	15.50	Not Required	12.50	Not Required	12.50	Not Required	15.50	99.32																																										
	157	5785		12.50		12.50		15.50		12.50		15.50																																													
	165	5825		12.50		12.50		15.50		12.50		15.50																																													
802.11n-HT20 MCS0	149	5745		Not Required		12.50		Not Required		12.50		Not Required		15.50		Not Required	12.50	Not Required	12.50	Not Required	15.50	100.00																																			
	157	5785				12.50				12.50				15.50			12.50		15.50																																						
	165	5825				12.50				12.50				15.50			12.50		15.50																																						
802.11n-HT40 MCS0	151	5755				Not Required				12.50				Not Required			12.50		Not Required		15.50		Not Required	12.50	Not Required	12.50	Not Required	15.50	100.00																												
	159	5795								12.50							12.50				15.50			12.50		15.50																															
	149	5745								12.50							12.50				15.50			12.50		15.50																															
802.11ac-VHT20 MCS0	157	5785								Not Required							12.50				Not Required			12.50		Not Required		15.50		Not Required	12.50	Not Required	12.50	Not Required	15.50	100.00																					
	165	5825															12.50							12.50				15.50			12.50		15.50																								
	151	5755															12.50							12.50				15.50			12.50		15.50																								
802.11ac-VHT40 MCS0	159	5795															Not Required							12.50				Not Required			12.50		Not Required		15.50		Not Required	12.50	Not Required	12.50	Not Required	15.50	100.00														
	155	5775																						12.50							12.50				15.50			12.50		15.50																	
	157	5785																						12.50							12.50				15.50			12.50		15.50																	
802.11ac-VHT80 MCS0	155	5775																						11.28							12.50				11.98			12.50		14.75		15.50		11.37	12.50	12.05	14.83	16.00	100.00								
802.11ax-HE20 MCS0	149	5745																						Not Required							12.50				Not Required			12.50		Not Required		15.50		Not Required	12.50	Not Required	12.50	Not Required	15.50	100.00							
	157	5785																													12.50							12.50				15.50			12.50		15.50										
	165	5825																													12.50							12.50				15.50			12.50		15.50										
802.11ax-HE40 MCS0	151	5755																													Not Required							12.50				Not Required			12.50		Not Required		15.50		Not Required	12.50	Not Required	12.50	Not Required	15.50	100.00
	159	5795	12.50		12.50		15.50		12.50		15.50																																														
802.11ax-HE80 MCS0	155	5775	Not Required		12.50		Not Required		12.50		Not Required		15.50		Not Required																							12.50							Not Required				12.50			Not Required		15.50		100.00	
	155	5775			12.50				12.50				15.50																									12.50											15.50								