



LTE Band 25_Ant 0

Table with columns: BW (MHz), Modulation, RE Size, RB Offset, Power, TxDemo (dBm), MPE (dB). Rows include Frequency (MHz) and Channel (MHz) for various configurations.

LTE Band 25_Ant 1

Table with columns: BW (MHz), Modulation, RE Size, RB Offset, Power, TxDemo (dBm), MPE (dB). Rows include Frequency (MHz) and Channel (MHz) for various configurations.

LTE Band 30_Ant 1

Table with columns: BW (MHz), Modulation, RE Size, RB Offset, Power, TxDemo (dBm), MPE (dB). Rows include Frequency (MHz) and Channel (MHz) for various configurations.

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Table with columns: BW (MHz), Modulation, RE Size, RB Offset, Power, TxDemo (dBm), MPE (dB). Rows include Frequency (MHz) and Channel (MHz) for various configurations.



LTE Band 66_Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Cap. Ch. / Freq.	Power Cap. Ch. / Freq.	Power Cap. Ch. / Freq.	Time-Int. (min)	MPH (dB)				
				12202	12202	12202				12202	12202	
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	19.22	19.23	19.23	20.7	0				
1.4	QPSK	1	16	19.21	19.23	19.23						
1.4	QPSK	1	32	19.24	19.27	19.27						
1.4	QPSK	3	0	19.23	19.23	19.23						
1.4	QPSK	3	16	19.24	19.27	19.27						
1.4	QPSK	3	32	19.25	19.27	19.27						
1.4	QPSK	100	0	19.27	19.28	19.28						
1.4	HQAM	1	0	19.25	19.25	19.25	20.7	0				
1.4	HQAM	1	16	19.23	19.25	19.25						
1.4	HQAM	1	32	19.26	19.28	19.28						
1.4	HQAM	3	0	19.24	19.24	19.24	20.7	0				
1.4	HQAM	3	16	19.25	19.25	19.25						
1.4	HQAM	3	32	19.24	19.24	19.24						
1.4	HQAM	100	0	19.27	19.28	19.28						
1.4	HQAM	1	0	19.22	19.24	19.24						
1.4	HQAM	1	16	19.26	19.28	19.28						
1.4	HQAM	1	32	19.27	19.28	19.28						
1.4	HQAM	3	0	19.23	19.24	19.24	20	0.7				
1.4	HQAM	3	16	19.23	19.24	19.24						
1.4	HQAM	3	32	19.23	19.24	19.24						
1.4	HQAM	100	0	19.26	19.28	19.28						
1.4	HQAM	1	0	19.23	19.23	19.23	20	0.7				
1.4	HQAM	1	16	19.23	19.23	19.23						
1.4	HQAM	1	32	19.23	19.23	19.23						
1.4	HQAM	3	0	19.23	19.23	19.23						
1.4	HQAM	3	16	19.23	19.23	19.23						
1.4	HQAM	3	32	19.23	19.23	19.23						
1.4	HQAM	100	0	19.26	19.28	19.28						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	19.32	19.31	19.31	20.7	0				
1.4	QPSK	1	16	19.34	19.31	19.31						
1.4	QPSK	1	32	19.32	19.32	19.32						
1.4	QPSK	3	0	19.32	19.32	19.32						
1.4	QPSK	3	16	19.32	19.32	19.32						
1.4	QPSK	3	32	19.32	19.32	19.32						
1.4	QPSK	100	0	19.31	19.31	19.31						
1.4	HQAM	1	0	19.29	19.31	19.31	20.7	0				
1.4	HQAM	1	16	19.31	19.31	19.31						
1.4	HQAM	1	32	19.34	19.33	19.34						
1.4	HQAM	3	0	19.32	19.32	19.32						
1.4	HQAM	3	16	19.32	19.32	19.32						
1.4	HQAM	3	32	19.32	19.32	19.32						
1.4	HQAM	100	0	19.31	19.31	19.31						
1.4	HQAM	1	0	19.27	19.29	19.29	20.7	0				
1.4	HQAM	1	16	19.31	19.31	19.31						
1.4	HQAM	1	32	19.31	19.31	19.31						
1.4	HQAM	3	0	19.27	19.29	19.29						
1.4	HQAM	3	16	19.27	19.29	19.29						
1.4	HQAM	3	32	19.27	19.29	19.29						
1.4	HQAM	100	0	19.29	19.29	19.29						
1.4	HQAM	1	0	19.27	19.27	19.27	20	0.7				
1.4	HQAM	1	16	19.27	19.27	19.27						
1.4	HQAM	1	32	19.27	19.27	19.27						
1.4	HQAM	3	0	19.27	19.27	19.27						
1.4	HQAM	3	16	19.27	19.27	19.27						
1.4	HQAM	3	32	19.27	19.27	19.27						
1.4	HQAM	100	0	19.27	19.27	19.27						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	19.12	19.12	19.12	20.7	0				
1.4	QPSK	1	16	19.12	19.12	19.12						
1.4	QPSK	1	32	19.12	19.12	19.12						
1.4	QPSK	3	0	19.12	19.12	19.12						
1.4	QPSK	3	16	19.12	19.12	19.12						
1.4	QPSK	3	32	19.12	19.12	19.12						
1.4	QPSK	100	0	19.12	19.12	19.12						
1.4	HQAM	1	0	19.12	19.12	19.12	20.7	0				
1.4	HQAM	1	16	19.12	19.12	19.12						
1.4	HQAM	1	32	19.12	19.12	19.12						
1.4	HQAM	3	0	19.12	19.12	19.12						
1.4	HQAM	3	16	19.12	19.12	19.12						
1.4	HQAM	3	32	19.12	19.12	19.12						
1.4	HQAM	100	0	19.12	19.12	19.12						
1.4	HQAM	1	0	19.12	19.12	19.12	20	0.7				
1.4	HQAM	1	16	19.12	19.12	19.12						
1.4	HQAM	1	32	19.12	19.12	19.12						
1.4	HQAM	3	0	19.12	19.12	19.12						
1.4	HQAM	3	16	19.12	19.12	19.12						
1.4	HQAM	3	32	19.12	19.12	19.12						
1.4	HQAM	100	0	19.12	19.12	19.12						

LTE Band 66_Ant 1												
BW (MHz)	Modulation	RB Size	RB Offset	Power Cap. Ch. / Freq.	Power Cap. Ch. / Freq.	Power Cap. Ch. / Freq.	Time-Int. (min)	MPH (dB)				
				12202	12202	12202				12202	12202	
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	19.27	19.27	19.27	21.4	0				
1.4	QPSK	1	16	19.26	19.27	19.27						
1.4	QPSK	1	32	19.29	19.29	19.29						
1.4	QPSK	3	0	19.26	19.26	19.26						
1.4	QPSK	3	16	19.27	19.27	19.27						
1.4	QPSK	3	32	19.27	19.27	19.27						
1.4	QPSK	100	0	19.26	19.26	19.26						
1.4	HQAM	1	0	19.25	19.26	19.26	21.4	0				
1.4	HQAM	1	16	19.25	19.26	19.26						
1.4	HQAM	1	32	19.29	19.29	19.29						
1.4	HQAM	3	0	19.26	19.26	19.26						
1.4	HQAM	3	16	19.27	19.27	19.27						
1.4	HQAM	3	32	19.27	19.27	19.27						
1.4	HQAM	100	0	19.26	19.26	19.26						
1.4	HQAM	1	0	19.22	19.22	19.22	21.4	0				
1.4	HQAM	1	16	19.22	19.22	19.22						
1.4	HQAM	1	32	19.22	19.22	19.22						
1.4	HQAM	3	0	19.22	19.22	19.22						
1.4	HQAM	3	16	19.22	19.22	19.22						
1.4	HQAM	3	32	19.22	19.22	19.22						
1.4	HQAM	100	0	19.22	19.22	19.22						
1.4	HQAM	1	0	19.17	19.17	19.17	21.4	0				
1.4	HQAM	1	16	19.17	19.17	19.17						
1.4	HQAM	1	32	19.17	19.17	19.17						
1.4	HQAM	3	0	19.17	19.17	19.17						
1.4	HQAM	3	16	19.17	19.17	19.17						
1.4	HQAM	3	32	19.17	19.17	19.17						
1.4	HQAM	100	0	19.17	19.17	19.17						
1.4	HQAM	1	0	19.12	19.12	19.12	21.4	0				
1.4	HQAM	1	16	19.12	19.12	19.12						
1.4	HQAM	1	32	19.12	19.12	19.12						
1.4	HQAM	3	0	19.12	19.12	19.12						
1.4	HQAM	3	16	19.12	19.12	19.12						
1.4	HQAM	3	32	19.12	19.12	19.12						
1.4	HQAM	100	0	19.12	19.12	19.12						
1.4	HQAM	1	0	19.07	19.07	19.07	21.4	0				
1.4	HQAM	1	16	19.07	19.07	19.07						
1.4	HQAM	1	32	19.07	19.07	19.07						
1.4	HQAM	3	0	19.07	19.07	19.07						
1.4	HQAM	3	16	19.07	19.07	19.07						
1.4	HQAM	3	32	19.07	19.07	19.07						
1.4	HQAM	100	0	19.07	19.07	19.07						
1.4	HQAM	1	0	19.02	19.02	19.02	21.4	0				
1.4	HQAM	1	16	19.02	19.02	19.02						
1.4	HQAM	1	32	19.02	19.02	19.02						
1.4	HQAM	3	0	19.02	19.02	19.02						
1.4	HQAM	3	16	19.02	19.02	19.02						
1.4	HQAM	3	32	19.02	19.02	19.02						
1.4	HQAM	100	0	19.02	19.02	19.02						
1.4	HQAM	1	0	18.97	18.97	18.97	21.4	0				
1.4	HQAM	1	16	18.97	18.97	18.97						
1.4	HQAM	1	32	18.97	18.97	18.97						
1.4	HQAM	3	0	18.97	18.97	18.97						
1.4	HQAM	3	16	18.97	18.97	18.97						
1.4	HQAM	3	32	18.97	18.97	18.97						
1.4	HQAM	100	0	18.97	18.97	18.97						
1.4	HQAM	1	0	18.92	18.92	18.92	21.4	0				
1.4	HQAM	1	16	18.92	18.92	18.92						
1.4	HQAM	1	32	18.92	18.92	18.92						
1.4	HQAM	3	0	18.92	18.92	18.92						
1.4	HQAM	3	16	18.92	18.92	18.92						
1.4	HQAM	3	32	18.92	18.92	18.92						
1.4	HQAM	100	0	18.92	18.92	18.92						
1.4	HQAM	1	0	18.87	18.87	18.87						



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)				1890	1900	1920		
20	PI2 BPSK	1	1	19.16	19.37	19.24		
20	PI2 BPSK	1	53	19.27	19.40	19.26	20.5	0.0
20	PI2 BPSK	1	104	19.18	19.38	19.27		
20	PI2 BPSK	50	0	19.21	19.35	19.32	20.5	0.0
20	PI2 BPSK	50	28	19.26	19.38	19.19	20.5	0.0
20	PI2 BPSK	50	56	19.29	19.34	19.22	20.5	0.0
20	PI2 BPSK	100	0	19.22	19.36	19.19	20.5	0.0
20	QPSK	1	1	19.34	19.44	19.17		
20	QPSK	1	53	19.27	19.31	19.16	20.5	0.0
20	QPSK	1	104	19.30	19.32	19.20		
20	QPSK	50	0	19.19	19.32	19.26	20.5	0.0
20	QPSK	50	28	19.24	19.36	19.15	20.5	0.0
20	QPSK	50	56	19.16	19.32	19.31	20.5	0.0
20	QPSK	100	0	19.22	19.43	19.23	20.5	0.0
20	16QAM	1	1	19.23	19.43	19.30	20.5	0.0
20	64QAM	1	1	19.19	19.31	19.29	20.5	0.0
20	256QAM	1	1	19.27	19.32	19.19	20.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1897.5	1890	1902.5	(dBm)	(dB)
10	QPSK	1	1	19.24	19.42	19.23	20.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1860	1905	(dBm)	(dB)
10	QPSK	1	1	19.30	19.43	19.28	20.5	0.0
Channel				370500	376000	375500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	19.21	19.42	19.22	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)				1900	1910	1920		
20	PI2 BPSK	1	1	19.00	19.13	19.15		
20	PI2 BPSK	1	53	19.07	19.13	19.05	21.0	0.0
20	PI2 BPSK	1	104	19.00	19.16	19.10		
20	PI2 BPSK	50	0	19.11	19.15	19.04	21.0	0.0
20	PI2 BPSK	50	28	19.04	19.12	19.03	21.0	0.0
20	PI2 BPSK	50	56	19.03	19.07	19.16	21.0	0.0
20	PI2 BPSK	100	0	19.11	19.09	19.07		
20	QPSK	1	1	19.12	19.19	19.13		
20	QPSK	1	53	19.04	19.13	19.03	21.0	0.0
20	QPSK	1	104	19.08	19.15	19.12		
20	QPSK	50	0	19.07	19.07	19.08	21.0	0.0
20	QPSK	50	28	19.05	19.11	19.10	21.0	0.0
20	QPSK	50	56	19.03	19.00	19.02	21.0	0.0
20	QPSK	100	0	19.01	19.10	19.06	21.0	0.0
20	16QAM	1	1	19.07	19.17	19.14	21.0	0.0
20	64QAM	1	1	19.08	19.10	19.15	21.0	0.0
20	256QAM	1	1	19.40	19.50	19.38	19.5	1.5
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1907.5	1890	1902.5	(dBm)	(dB)
10	QPSK	1	1	19.03	19.13	19.09	21.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1860	1905	(dBm)	(dB)
10	QPSK	1	1	19.00	19.13	19.07	21.0	0.0
Channel				370500	376000	375500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	19.13	19.18	19.08	21.0	0.0

n25_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)				1920	1925	1925		
40	PI2 BPSK	1	1	19.27	19.29	19.23		
40	PI2 BPSK	1	108	19.28	19.29	19.21	20.5	0.0
40	PI2 BPSK	1	214	19.28	19.25	19.26		
40	PI2 BPSK	108	0	19.20	19.23	19.30	20.5	0.0
40	PI2 BPSK	108	54	19.27	19.34	19.28	20.5	0.0
40	PI2 BPSK	108	108	19.28	19.32	19.21	20.5	0.0
40	PI2 BPSK	216	0	19.20	19.24	19.27		
40	QPSK	1	1	19.31	19.45	19.33		
40	QPSK	1	108	19.16	19.29	19.24	20.5	0.0
40	QPSK	1	214	19.24	19.32	19.31		
40	QPSK	108	0	19.26	19.34	19.29	20.5	0.0
40	QPSK	108	54	19.25	19.36	19.30	20.5	0.0
40	QPSK	108	108	19.20	19.23	19.19	20.5	0.0
40	QPSK	216	0	19.17	19.33	19.20	20.5	0.0
40	16QAM	1	1	19.23	19.23	19.28	20.5	0.0
40	64QAM	1	1	19.17	19.31	19.25	20.5	0.0
40	256QAM	1	1	19.30	19.27	19.30	20.5	0.0
Channel				375500	376000	376000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1897.5	1892.5	1897.5	(dBm)	(dB)
25	QPSK	1	1	19.17	19.23	19.31	20.5	0.0
Channel				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1862.5	1905	(dBm)	(dB)
30	QPSK	1	1	19.23	19.28	19.30	20.5	0.0
Channel				372500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1882.5	1902.5	(dBm)	(dB)
25	QPSK	1	1	19.21	19.28	19.25	20.5	0.0
Channel				372000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1862.5	1905	(dBm)	(dB)
20	QPSK	1	1	19.18	19.37	19.29	20.5	0.0
Channel				371500	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1867.5	1862.5	1907.5	(dBm)	(dB)
15	QPSK	1	1	19.30	19.35	19.31	20.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1865	1862.5	1910	(dBm)	(dB)
10	QPSK	1	1	19.24	19.30	19.22	20.5	0.0
Channel				370500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1862.5	1862.5	1912.5	(dBm)	(dB)
5	QPSK	1	1	19.19	19.28	19.24	20.5	0.0



n25_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	19.00	19.19	19.00			
40	PI2 BPSK	1	108	19.05	19.08	19.15	21.0	0.0	
40	PI2 BPSK	1	214	19.01	19.19	19.08			
40	PI2 BPSK	108	0	19.12	19.09	19.06	21.0	0.0	
40	PI2 BPSK	108	84	19.07	19.13	19.12	21.0	0.0	
40	PI2 BPSK	108	108	19.06	19.19	19.13	21.0	0.0	
40	PI2 BPSK	216	0	19.05	19.08	19.09			
40	QPSK	1	1	19.14	19.20	19.17			
40	QPSK	1	108	19.06	19.06	19.06	21.0	0.0	
40	QPSK	1	214	19.11	19.13	19.16			
40	QPSK	108	0	19.05	19.08	19.03	21.0	0.0	
40	QPSK	108	84	19.06	19.14	19.11	21.0	0.0	
40	QPSK	108	108	19.03	19.13	19.03	21.0	0.0	
40	QPSK	216	0	19.10	19.12	19.06			
40	16QAM	1	1	19.13	19.13	19.05	21.0	0.0	
40	16QAM	1	1	19.05	19.08	19.09	21.0	0.0	
40	256QAM	1	1	17.75	17.88	17.74	19.5	1.5	
Channel									
Frequency (MHz)									
38	QPSK	1	1	19.12	19.14	19.06	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.02	19.11	19.08	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.10	19.12	19.04	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.13	19.14	19.02	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.10	19.18	19.08	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.08	19.08	19.03	21.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.06	19.15	19.05	21.0	0.0	

n66_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	19.85	19.89	19.92			
40	PI2 BPSK	1	108	19.89	19.97	19.96	21.0	0.0	
40	PI2 BPSK	1	214	19.85	19.90	19.88			
40	PI2 BPSK	108	0	19.86	19.99	19.94	21.0	0.0	
40	PI2 BPSK	108	84	19.86	20.00	19.98	21.0	0.0	
40	PI2 BPSK	108	108	19.87	20.03	19.88	21.0	0.0	
40	PI2 BPSK	216	0	19.91	19.95	19.89			
40	QPSK	1	1	20.00	20.05	20.02			
40	QPSK	1	108	19.85	20.02	19.83	21.0	0.0	
40	QPSK	1	214	19.88	20.04	19.97			
40	QPSK	108	0	19.85	19.98	19.88	21.0	0.0	
40	QPSK	108	84	19.86	20.00	19.95	21.0	0.0	
40	QPSK	108	108	19.91	19.97	19.93	21.0	0.0	
40	QPSK	216	0	19.92	20.02	19.87			
40	16QAM	1	1	19.97	20.03	20.00	21.0	0.0	
40	16QAM	1	1	19.82	20.00	20.00	21.0	0.0	
40	256QAM	1	1	19.86	20.01	19.89	21.0	0.0	
Channel									
Frequency (MHz)									
36	QPSK	1	1	19.85	19.85	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.93	19.97	19.87	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.97	20.03	19.88	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.93	19.96	19.93	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.92	19.93	19.87	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.93	19.99	19.87	21.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.92	19.90	19.89	21.0	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)									
40	PI2 BPSK	1	1	20.11	20.13	20.21			
40	PI2 BPSK	1	108	20.16	20.20	20.21	21.0	0.0	
40	PI2 BPSK	1	214	20.08	20.18	20.10			
40	PI2 BPSK	108	0	20.17	20.20	20.23	21.0	0.0	
40	PI2 BPSK	108	84	20.14	20.15	20.21	21.0	0.0	
40	PI2 BPSK	108	108	20.17	20.22	20.10	21.0	0.0	
40	PI2 BPSK	216	0	20.12	20.13	20.19			
40	QPSK	1	1	20.22	20.28	20.24			
40	QPSK	1	108	20.08	20.21	20.18	21.0	0.0	
40	QPSK	1	214	20.13	20.19	20.23			
40	QPSK	108	0	20.10	20.15	20.14	21.0	0.0	
40	QPSK	108	84	20.14	20.19	20.18	21.0	0.0	
40	QPSK	108	108	20.13	20.17	20.17	21.0	0.0	
40	QPSK	216	0	20.11	20.16	20.12			
40	16QAM	1	1	20.09	20.18	20.23	21.0	0.0	
40	16QAM	1	1	20.19	20.16	20.13	21.0	0.0	
40	256QAM	1	1	19.84	19.86	19.83	19.5	1.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	20.07	20.24	20.10	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.17	20.17	20.10	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	20.07	20.24	20.23	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.14	20.19	20.20	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.16	20.16	20.13	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.00	20.18	20.18	21.0	0.0	



Reduced Power Mode for Other PA DSi6+slm

LTE Band 2_Ant 0 table with columns: BW (MHz), Modulation, RE Size, RB Offset, Power (W), Power (dBm), Power (dBm), TWP (dBm), MPR (dB), and various frequency bands (50, 70, 100, 150, 200 MHz).

LTE Band 2_Ant 1 table with columns: BW (MHz), Modulation, RE Size, RB Offset, Power (W), Power (dBm), Power (dBm), TWP (dBm), MPR (dB), and various frequency bands (50, 70, 100, 150, 200 MHz).

LTE Band 4_Ant 0 table with columns: BW (MHz), Modulation, RE Size, RB Offset, Power (W), Power (dBm), Power (dBm), TWP (dBm), MPR (dB), and various frequency bands (50, 70, 100, 150, 200 MHz).

LTE Band 4_Ant 1 table with columns: BW (MHz), Modulation, RE Size, RB Offset, Power (W), Power (dBm), Power (dBm), TWP (dBm), MPR (dB), and various frequency bands (50, 70, 100, 150, 200 MHz).



n2_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. F.Freq	Middle Ch. F.Freq	High Ch. F.Freq			
Channel									
Frequency (MHz)				1800	1800	1800			
20	PI2 BPSK	1	1	19.18	19.37	19.24			
20	PI2 BPSK	1	53	19.27	19.40	19.26	20.5	0.0	
20	PI2 BPSK	1	104	19.18	19.39	19.27			
20	PI2 BPSK	50	0	19.21	19.35	19.32	20.5	0.0	
20	PI2 BPSK	50	28	19.26	19.38	19.19	20.5	0.0	
20	PI2 BPSK	50	56	19.29	19.34	19.22	20.5	0.0	
20	PI2 BPSK	100	0	19.22	19.36	19.19			
20	QPSK	1	1	19.34	19.44	19.37			
20	QPSK	1	53	19.27	19.31	19.16	20.5	0.0	
20	QPSK	1	104	19.30	19.32	19.20			
20	QPSK	50	0	19.19	19.32	19.26	20.5	0.0	
20	QPSK	50	28	19.26	19.36	19.44	20.5	0.0	
20	QPSK	50	56	19.16	19.32	19.31	20.5	0.0	
20	QPSK	100	0	19.22	19.43	19.23			
20	16QAM	1	1	19.23	19.43	19.30	20.5	0.0	
20	16QAM	1	1	19.16	19.31	19.29	20.5	0.0	
20	16QAM	1	1	19.27	19.32	19.19	20.5	0.0	
Channel									
Frequency (MHz)				1800	1800	1800			
15	QPSK	1	1	19.24	19.42	19.28	20.5	0.0	
Channel									
Frequency (MHz)				1855	1880	1805			
10	QPSK	1	1	19.30	19.43	19.28	20.5	0.0	
Channel									
Frequency (MHz)				1892.5	1880	1897.5			
5	QPSK	1	1	19.21	19.44	19.22	20.5	0.0	

n2_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. F.Freq	Middle Ch. F.Freq	High Ch. F.Freq			
Channel									
Frequency (MHz)				1800	1800	1800			
20	PI2 BPSK	1	1	18.09	18.09	18.11			
20	PI2 BPSK	1	53	18.10	18.09	18.02	20.0	0.0	
20	PI2 BPSK	1	104	18.15	18.15	18.03			
20	PI2 BPSK	50	0	18.09	18.09	18.10	20.0	0.0	
20	PI2 BPSK	50	28	18.08	18.15	18.12	20.0	0.0	
20	PI2 BPSK	50	56	18.15	18.10	18.10	20.0	0.0	
20	PI2 BPSK	100	0	18.09	18.16	18.07			
20	QPSK	1	1	18.10	18.20	18.10			
20	QPSK	1	53	18.10	18.16	18.06	20.0	0.0	
20	QPSK	1	104	18.09	18.05	18.05			
20	QPSK	50	0	18.08	18.13	18.09	20.0	0.0	
20	QPSK	50	28	18.08	18.16	18.14	20.0	0.0	
20	QPSK	50	56	18.03	18.10	18.12	20.0	0.0	
20	QPSK	100	0	18.08	18.12	18.10			
20	16QAM	1	1	18.14	18.09	18.13	20.0	0.0	
20	16QAM	1	1	18.17	18.07	18.10	20.0	0.0	
20	16QAM	1	1	18.08	18.13	18.05	20.0	0.0	
Channel									
Frequency (MHz)				1800	1800	1800			
15	QPSK	1	1	18.09	18.13	18.08	20.0	0.0	
Channel									
Frequency (MHz)				1855	1880	1805			
10	QPSK	1	1	18.11	18.14	18.09	20.0	0.0	
Channel									
Frequency (MHz)				1892.5	1880	1897.5			
5	QPSK	1	1	18.15	18.10	18.12	20.0	0.0	

n2_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. F.Freq	Middle Ch. F.Freq	High Ch. F.Freq			
Channel									
Frequency (MHz)				1800	1800	1800			
40	PI2 BPSK	1	1	19.27	19.39	19.23			
40	PI2 BPSK	1	108	19.28	19.29	19.21	20.5	0.0	
40	PI2 BPSK	1	214	19.29	19.25	19.26			
40	PI2 BPSK	108	0	19.20	19.23	19.30	20.5	0.0	
40	PI2 BPSK	108	84	19.27	19.34	19.28	20.5	0.0	
40	PI2 BPSK	108	108	19.28	19.32	19.21	20.5	0.0	
40	PI2 BPSK	216	0	19.20	19.24	19.27			
40	QPSK	1	1	19.31	19.42	19.31			
40	QPSK	1	108	19.16	19.29	19.24	20.5	0.0	
40	QPSK	1	214	19.24	19.32	19.31			
40	QPSK	108	0	19.26	19.34	19.29	20.5	0.0	
40	QPSK	108	84	19.26	19.26	19.40	20.5	0.0	
40	QPSK	108	108	19.20	19.23	19.19	20.5	0.0	
40	QPSK	216	0	19.17	19.33	19.20			
40	16QAM	1	1	19.23	19.23	19.28	20.5	0.0	
40	16QAM	1	1	19.17	19.47	19.26	20.5	0.0	
40	16QAM	1	1	19.30	19.27	19.30	20.5	0.0	
Channel									
Frequency (MHz)				1800	1800	1800			
35	QPSK	1	1	19.17	19.29	19.31	20.5	0.0	
Channel									
Frequency (MHz)				1855	1880	1805			
30	QPSK	1	1	19.23	19.28	19.30	20.5	0.0	
Channel									
Frequency (MHz)				1892.5	1880	1897.5			
25	QPSK	1	1	19.21	19.28	19.25	20.5	0.0	
Channel									
Frequency (MHz)				1800	1800	1800			
20	QPSK	1	1	19.16	19.37	19.28	20.5	0.0	
Channel									
Frequency (MHz)				1855	1880	1805			
15	QPSK	1	1	19.30	19.35	19.31	20.5	0.0	
Channel									
Frequency (MHz)				1800	1800	1800			
10	QPSK	1	1	19.24	19.30	19.22	20.5	0.0	
Channel									
Frequency (MHz)				1892.5	1880	1897.5			
5	QPSK	1	1	19.19	19.28	19.24	20.5	0.0	



n25_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	18.10	18.09	18.10			
40	PI2 BPSK	1	108	18.07	18.22	18.08	20.0	0.0	
40	PI2 BPSK	1	214	18.16	18.12	18.09			
40	PI2 BPSK	108	0	18.10	18.20	18.13	20.0	0.0	
40	PI2 BPSK	108	54	18.07	18.22	18.11	20.0	0.0	
40	PI2 BPSK	108	108	18.17	18.13	18.10			
40	PI2 BPSK	216	0	18.12	18.15	18.09	20.0	0.0	
40	QPSK	1	1	18.22	18.24	18.20			
40	QPSK	1	108	18.18	18.21	18.11	20.0	0.0	
40	QPSK	1	214	18.10	18.18	18.08			
40	QPSK	108	0	18.11	18.13	18.08	20.0	0.0	
40	QPSK	108	54	18.15	18.20	18.15	20.0	0.0	
40	QPSK	108	108	18.12	18.15	18.13			
40	QPSK	216	0	18.09	18.13	18.05	20.0	0.0	
40	16QAM	1	1	18.12	18.15	18.10	20.0	0.0	
40	64QAM	1	1	18.14	18.12	18.06	20.0	0.0	
40	256QAM	1	1	17.75	17.89	17.74	19.5	0.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	18.11	18.13	18.17	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.10	18.16	18.11	20.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.09	18.17	18.05	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.14	18.13	18.14	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.16	18.15	18.18	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.12	18.12	18.19	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.10	18.14	18.07	20.0	0.0	

n66_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	19.95	19.89	19.85			
40	PI2 BPSK	1	108	19.89	19.97	19.98	21.0	0.0	
40	PI2 BPSK	1	214	19.85	19.90	19.88			
40	PI2 BPSK	108	0	19.86	19.99	19.94	21.0	0.0	
40	PI2 BPSK	108	54	19.88	20.00	19.98	21.0	0.0	
40	PI2 BPSK	108	108	19.87	20.03	19.88			
40	PI2 BPSK	216	0	19.91	19.95	19.89	21.0	0.0	
40	QPSK	1	1	20.00	20.05	20.02			
40	QPSK	1	108	19.85	20.02	19.89	21.0	0.0	
40	QPSK	1	214	19.88	20.04	19.97			
40	QPSK	108	0	19.85	19.98	19.88	21.0	0.0	
40	QPSK	108	54	19.87	20.00	19.85	21.0	0.0	
40	QPSK	108	108	19.91	19.97	19.93			
40	QPSK	216	0	19.92	20.02	19.87	21.0	0.0	
40	16QAM	1	1	19.97	20.03	20.00	21.0	0.0	
40	64QAM	1	1	19.92	20.00	20.00	21.0	0.0	
40	256QAM	1	1	19.86	20.01	19.89	21.0	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	19.85	19.85	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.83	19.87	19.87	21.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	19.97	20.03	19.88	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.93	19.96	19.93	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.92	19.93	19.87	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.93	19.89	19.87	21.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.92	19.90	19.89	21.0	0.0	

n66_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	19.18	19.07	19.08			
40	PI2 BPSK	1	108	19.09	19.17	19.08	20.0	0.0	
40	PI2 BPSK	1	214	18.12	18.18	18.16			
40	PI2 BPSK	108	0	19.14	19.15	19.16	20.0	0.0	
40	PI2 BPSK	108	54	18.13	18.16	18.15	20.0	0.0	
40	PI2 BPSK	108	108	19.08	19.12	19.06			
40	PI2 BPSK	216	0	18.17	18.16	18.16	20.0	0.0	
40	QPSK	1	1	19.20	19.22	19.16			
40	QPSK	1	108	18.18	19.21	19.03	20.0	0.0	
40	QPSK	1	214	18.17	19.14	19.08			
40	QPSK	108	0	18.12	19.08	18.16	20.0	0.0	
40	QPSK	108	54	18.15	19.18	18.17	20.0	0.0	
40	QPSK	108	108	19.07	19.13	19.08			
40	QPSK	216	0	18.17	18.18	18.14	20.0	0.0	
40	16QAM	1	1	19.06	19.17	19.10	20.0	0.0	
40	64QAM	1	1	18.16	19.08	18.15	20.0	0.0	
40	256QAM	1	1	18.84	18.86	18.83	19.5	0.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	18.18	18.17	18.32	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.16	19.10	19.10	20.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.18	18.16	18.10	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.13	18.09	18.12	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.10	19.17	19.06	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.18	19.12	19.03	20.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.06	19.09	19.06	20.0	0.0	



Reduced Power Mode for Other PA DS17

LTE Band 2_Ant 0

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (W), Power (dBm), Power (dBm), Time-on-Air (min), MPR (MHz). Rows include OFDM, SC-FDMA, and SRS configurations for various bandwidths and power levels.

LTE Band 2_Ant 1

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (W), Power (dBm), Power (dBm), Time-on-Air (min), MPR (MHz). Rows include OFDM, SC-FDMA, and SRS configurations for various bandwidths and power levels.

LTE Band 4_Ant 0

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (W), Power (dBm), Power (dBm), Time-on-Air (min), MPR (MHz). Rows include OFDM, SC-FDMA, and SRS configurations for various bandwidths and power levels.

LTE Band 4_Ant 1

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power (W), Power (dBm), Power (dBm), Time-on-Air (min), MPR (MHz). Rows include OFDM, SC-FDMA, and SRS configurations for various bandwidths and power levels.



LTE Band 25_Ant 0

RF BWP	Modulation	RB Size	RB Offset	Power Ch./Frac	Power Ch./Frac	Power Ch./Frac	Time-Int. (min)	MPH (dB)
Carrier Frequency (MHz)			2070.5	2080.5	2090.5	2100.5		
00	QPSK	1	0	15.33	15.32	15.34		
00	QPSK	1	66	15.33	15.32	15.34		
00	QPSK	1	132	15.33	15.32	15.34		
00	QPSK	1	198	15.33	15.32	15.34		
00	QPSK	1	264	15.33	15.32	15.34		
00	QPSK	1	330	15.33	15.32	15.34		
00	QPSK	1	396	15.33	15.32	15.34		
00	QPSK	1	462	15.33	15.32	15.34		
00	QPSK	1	528	15.33	15.32	15.34		
00	QPSK	1	594	15.33	15.32	15.34		
00	QPSK	1	660	15.33	15.32	15.34		
00	QPSK	1	726	15.33	15.32	15.34		
00	QPSK	1	792	15.33	15.32	15.34		
00	QPSK	1	858	15.33	15.32	15.34		
00	QPSK	1	924	15.33	15.32	15.34		
00	QPSK	1	990	15.33	15.32	15.34		
00	QPSK	1	1056	15.33	15.32	15.34		
00	QPSK	1	1122	15.33	15.32	15.34		
00	QPSK	1	1188	15.33	15.32	15.34		
00	QPSK	1	1254	15.33	15.32	15.34		
00	QPSK	1	1320	15.33	15.32	15.34		
00	QPSK	1	1386	15.33	15.32	15.34		
00	QPSK	1	1452	15.33	15.32	15.34		
00	QPSK	1	1518	15.33	15.32	15.34		
00	QPSK	1	1584	15.33	15.32	15.34		
00	QPSK	1	1650	15.33	15.32	15.34		
00	QPSK	1	1716	15.33	15.32	15.34		
00	QPSK	1	1782	15.33	15.32	15.34		
00	QPSK	1	1848	15.33	15.32	15.34		
00	QPSK	1	1914	15.33	15.32	15.34		
00	QPSK	1	1980	15.33	15.32	15.34		
00	QPSK	1	2046	15.33	15.32	15.34		
00	QPSK	1	2112	15.33	15.32	15.34		
00	QPSK	1	2178	15.33	15.32	15.34		
00	QPSK	1	2244	15.33	15.32	15.34		
00	QPSK	1	2310	15.33	15.32	15.34		
00	QPSK	1	2376	15.33	15.32	15.34		
00	QPSK	1	2442	15.33	15.32	15.34		
00	QPSK	1	2508	15.33	15.32	15.34		
00	QPSK	1	2574	15.33	15.32	15.34		
00	QPSK	1	2640	15.33	15.32	15.34		
00	QPSK	1	2706	15.33	15.32	15.34		
00	QPSK	1	2772	15.33	15.32	15.34		
00	QPSK	1	2838	15.33	15.32	15.34		
00	QPSK	1	2904	15.33	15.32	15.34		
00	QPSK	1	2970	15.33	15.32	15.34		
00	QPSK	1	3036	15.33	15.32	15.34		
00	QPSK	1	3102	15.33	15.32	15.34		
00	QPSK	1	3168	15.33	15.32	15.34		
00	QPSK	1	3234	15.33	15.32	15.34		
00	QPSK	1	3300	15.33	15.32	15.34		
00	QPSK	1	3366	15.33	15.32	15.34		
00	QPSK	1	3432	15.33	15.32	15.34		
00	QPSK	1	3498	15.33	15.32	15.34		
00	QPSK	1	3564	15.33	15.32	15.34		
00	QPSK	1	3630	15.33	15.32	15.34		
00	QPSK	1	3696	15.33	15.32	15.34		
00	QPSK	1	3762	15.33	15.32	15.34		
00	QPSK	1	3828	15.33	15.32	15.34		
00	QPSK	1	3894	15.33	15.32	15.34		
00	QPSK	1	3960	15.33	15.32	15.34		
00	QPSK	1	4026	15.33	15.32	15.34		
00	QPSK	1	4092	15.33	15.32	15.34		
00	QPSK	1	4158	15.33	15.32	15.34		
00	QPSK	1	4224	15.33	15.32	15.34		
00	QPSK	1	4290	15.33	15.32	15.34		
00	QPSK	1	4356	15.33	15.32	15.34		
00	QPSK	1	4422	15.33	15.32	15.34		
00	QPSK	1	4488	15.33	15.32	15.34		
00	QPSK	1	4554	15.33	15.32	15.34		
00	QPSK	1	4620	15.33	15.32	15.34		
00	QPSK	1	4686	15.33	15.32	15.34		
00	QPSK	1	4752	15.33	15.32	15.34		
00	QPSK	1	4818	15.33	15.32	15.34		
00	QPSK	1	4884	15.33	15.32	15.34		
00	QPSK	1	4950	15.33	15.32	15.34		
00	QPSK	1	5016	15.33	15.32	15.34		
00	QPSK	1	5082	15.33	15.32	15.34		
00	QPSK	1	5148	15.33	15.32	15.34		
00	QPSK	1	5214	15.33	15.32	15.34		
00	QPSK	1	5280	15.33	15.32	15.34		
00	QPSK	1	5346	15.33	15.32	15.34		
00	QPSK	1	5412	15.33	15.32	15.34		
00	QPSK	1	5478	15.33	15.32	15.34		
00	QPSK	1	5544	15.33	15.32	15.34		
00	QPSK	1	5610	15.33	15.32	15.34		
00	QPSK	1	5676	15.33	15.32	15.34		
00	QPSK	1	5742	15.33	15.32	15.34		
00	QPSK	1	5808	15.33	15.32	15.34		
00	QPSK	1	5874	15.33	15.32	15.34		
00	QPSK	1	5940	15.33	15.32	15.34		
00	QPSK	1	6006	15.33	15.32	15.34		
00	QPSK	1	6072	15.33	15.32	15.34		
00	QPSK	1	6138	15.33	15.32	15.34		
00	QPSK	1	6204	15.33	15.32	15.34		
00	QPSK	1	6270	15.33	15.32	15.34		
00	QPSK	1	6336	15.33	15.32	15.34		
00	QPSK	1	6402	15.33	15.32	15.34		
00	QPSK	1	6468	15.33	15.32	15.34		
00	QPSK	1	6534	15.33	15.32	15.34		
00	QPSK	1	6600	15.33	15.32	15.34		
00	QPSK	1	6666	15.33	15.32	15.34		
00	QPSK	1	6732	15.33	15.32	15.34		
00	QPSK	1	6798	15.33	15.32	15.34		
00	QPSK	1	6864	15.33	15.32	15.34		
00	QPSK	1	6930	15.33	15.32	15.34		
00	QPSK	1	6996	15.33	15.32	15.34		
00	QPSK	1	7062	15.33	15.32	15.34		
00	QPSK	1	7128	15.33	15.32	15.34		
00	QPSK	1	7194	15.33	15.32	15.34		
00	QPSK	1	7260	15.33	15.32	15.34		
00	QPSK	1	7326	15.33	15.32	15.34		
00	QPSK	1	7392	15.33	15.32	15.34		
00	QPSK	1	7458	15.33	15.32	15.34		
00	QPSK	1	7524	15.33	15.32	15.34		
00	QPSK	1	7590	15.33	15.32	15.34		
00	QPSK	1	7656	15.33	15.32	15.34		
00	QPSK	1	7722	15.33	15.32	15.34		
00	QPSK	1	7788	15.33	15.32	15.34		
00	QPSK	1	7854	15.33	15.32	15.34		
00	QPSK	1	7920	15.33	15.32	15.34		
00	QPSK	1	7986	15.33	15.32	15.34		
00	QPSK	1	8052	15.33	15.32	15.34		
00	QPSK	1	8118	15.33	15.32	15.34		
00	QPSK	1	8184	15.33	15.32	15.34		
00	QPSK	1	8250	15.33	15.32	15.34		
00	QPSK	1	8316	15.33	15.32	15.34		
00	QPSK	1	8382	15.33	15.32	15.34		
00	QPSK	1	8448	15.33	15.32	15.34		
00	QPSK	1	8514	15.33	15.32	15.34		
00	QPSK	1	8580	15.33	15.32	15.34		
00	QPSK	1	8646	15.33	15.32	15.34		
00	QPSK	1	8712	15.33	15.32	15.34		
00	QPSK	1	8778	15.33	15.32	15.34		
00	QPSK	1	8844	15.33	15.32	15.34		
00	QPSK	1	8910	15.33	15.32	15.34		
00	QPSK	1	8976	15.33	15.32	15.34		
00	QPSK	1	9042	15.33	15.32	15.34		
00	QPSK	1	9108	15.33	15.32	15.34		
00	QPSK	1	9174	15.33	15.32	15.34		
00	QPSK	1	9240	15.33	15.32	15.34		
00	QPSK	1	9306	15.33	15.32	15.34		
00	QPSK	1	9372	15.33	15.32	15.34		
00	QPSK	1	9438	15.33	15.32	15.34		
00	QPSK	1	9504	15.33	15.32	15.34		
00	QPSK	1	9570	15.33	15.32	15.34		
00	QPSK	1	9636	15.33	15.32	15.34		
00	QPSK	1	9702	15.33	15.32	15.34		
00	QPSK	1	9768	15.33	15.32	15.34		
00	QPSK	1	9834	15.33	15.32	15.34		
00	QPSK	1	9900	15.33	15.32	15.34		
00	QPSK	1	9966	15.33	15.32	15.34		
00	QPSK	1	10032	15.33	15.32	15.34		
00	QPSK	1	10098	15.33	15.32	15.34		
00	QPSK	1	10164	15.33	15.32	15.34		
00	QPSK	1	10230	15.33	15.32	15.34		
00	QPSK	1	10296	15.33	15.32	15.34		
00	QPSK	1	10362	15.33	15.32	15.34		
00	QPSK	1	10428	15.33	15.32	15.34		
00	QPSK	1	10494	15.33	15.32	15.34		
00	QPSK	1	10560	15.33	15.32	15.34		
00	QPSK	1	10626	15.33	15.32	15.34		
00	QPSK	1	10692	15.33	15.32	15.34		
00	QPSK	1	10758	15.33	15.32	15.34		
00	QPSK	1	10824	15.33	15.32	15.34		
00	QPSK	1	10890	15.33	15.			



LTE Band 66_Ant 0									
BR [BWP]	Modem	RS Size	RS Offset	Power [dBm]	Power [dBm]	Power [dBm]	Time-Int. (min)	MPH (dB)	
				17722	17722	17722			
				Ch1/Freq	Ch2/Freq	Ch3/Freq			
Frequency (MHz)									
30	OPRSK	1	0	15.90	16.20	16.00	17.2	0	
30	OPRSK	1	40	16.11	16.20	16.00			
30	OPRSK	1	80	15.97	16.13	16.02			
30	OPRSK	30	0	15.87	16.15	15.98			
30	OPRSK	30	40	16.08	16.20	16.00			
30	OPRSK	30	80	15.92	16.15	15.95			
30	OPRSK	100	0	15.80	16.12	15.91			
30	OPRSK	100	40	16.09	16.20	16.00			
30	HQAM	1	0	15.95	16.00	15.90	17.2	0	
30	HQAM	1	40	15.83	16.15	15.92			
30	HQAM	30	0	15.98	16.20	16.00			
30	HQAM	30	40	15.87	16.00	15.91	17.2	0	
30	HQAM	30	80	15.89	16.14	15.98			
30	HQAM	100	0	15.92	16.14	15.90	17.2	0	
30	HQAM	100	40	15.92	16.05	15.92			
30	HQAM	100	80	15.92	16.14	15.90			
30	HQAM	30	0	15.93	16.11	15.91	17.2	0	
30	HQAM	30	40	15.88	16.16	15.98			
30	HQAM	30	80	15.92	16.16	15.93			
30	HQAM	100	0	15.92	16.16	15.94	17.2	0	
30	ZSIOAM	1	0	15.92	16.07	15.97	17.2	0	
30	ZSIOAM	1	40	15.86	16.14	15.96			
30	ZSIOAM	1	80	15.84	16.08	15.94			
30	ZSIOAM	30	0	15.87	16.10	15.98	17.2	0	
30	ZSIOAM	30	40	15.90	16.07	15.98			
30	ZSIOAM	30	80	15.87	16.13	15.92			
30	ZSIOAM	100	0	15.88	16.07	15.96			
Channel									
				17723	17743	17723			
				Ch1/Freq	Ch2/Freq	Ch3/Freq			
Frequency (MHz)									
15	OPRSK	1	0	16.16	16.15	16.17	17.2	0	
15	OPRSK	1	40	16.18	16.19	16.17			
15	OPRSK	1	80	16.11	16.11	16.08			
15	OPRSK	30	0	16.11	16.14	16.14			
15	OPRSK	30	40	16.14	16.13	16.15			
15	OPRSK	30	80	16.11	16.10	16.10	17.2	0	
15	OPRSK	75	0	16.09	16.08	16.07			
15	OPRSK	75	40	16.09	16.08	16.08			
15	HQAM	1	0	16.08	16.08	16.04	17.2	0	
15	HQAM	1	40	16.14	16.13	16.13			
15	HQAM	30	0	16.07	16.03	16.03	17.2	0	
15	HQAM	30	40	16.10	16.14	16.10			
15	HQAM	30	80	16.15	16.16	16.13			
15	HQAM	100	0	16.12	16.12	16.11	17.2	0	
15	HQAM	100	40	16.08	16.08	16.08			
15	HQAM	100	80	16.08	16.08	16.09	17.2	0	
15	HQAM	30	0	16.07	16.15	16.13			
15	HQAM	30	40	16.12	16.13	16.13			
15	HQAM	30	80	16.12	16.13	16.13	17.2	0	
15	HQAM	75	0	16.09	16.09	16.07			
15	HQAM	75	40	16.14	16.14	16.14			
15	ZSIOAM	1	0	16.14	16.14	16.13	17.2	0	
15	ZSIOAM	1	40	16.09	16.03	16.01			
15	ZSIOAM	30	0	16.02	16.02	16.06			
15	ZSIOAM	30	40	16.02	16.02	16.02	17.2	0	
15	ZSIOAM	30	80	16.13	16.10	16.13			
15	ZSIOAM	75	0	16.04	16.05	16.02			
Channel									
				17743	17743	17743			
				Ch1/Freq	Ch2/Freq	Ch3/Freq			
Frequency (MHz)									
10	OPRSK	1	0	16.14	16.14	16.16	17.2	0	
10	OPRSK	1	40	16.10	16.10	16.10			
10	OPRSK	20	0	16.12	16.14	16.14			
10	OPRSK	20	40	16.16	16.16	16.16	17.2	0	
10	OPRSK	20	80	16.12	16.11	16.12			
10	OPRSK	50	0	16.09	16.11	16.08			
10	OPRSK	1	0	16.08	16.09	16.05	17.2	0	
10	HQAM	1	0	16.06	16.07	16.06			
10	HQAM	1	40	16.12	16.12	16.10			
10	HQAM	20	0	16.13	16.10	16.13	17.2	0	
10	HQAM	20	40	16.04	16.07	16.04			
10	HQAM	20	80	16.12	16.12	16.12			
10	HQAM	50	0	16.11	16.08	16.09	17.2	0	
10	HQAM	50	40	16.09	16.03	16.04			
10	HQAM	50	80	16.09	16.11	16.10			
10	HQAM	25	0	16.09	16.07	16.08	17.2	0	
10	HQAM	25	40	16.12	16.11	16.14			
10	HQAM	25	80	16.15	16.13	16.16			
10	ZSIOAM	1	0	16.07	16.08	16.04	17.2	0	
10	ZSIOAM	1	40	16.07	16.08	16.07			
10	ZSIOAM	20	0	16.08	16.08	16.04	17.2	0	
10	ZSIOAM	20	40	16.14	16.13	16.16			
10	ZSIOAM	50	0	16.05	16.03	16.04			
Channel									
				17743	17743	17743			
				Ch1/Freq	Ch2/Freq	Ch3/Freq			
Frequency (MHz)									
5	OPRSK	1	0	16.10	16.16	16.18	17.2	0	
5	OPRSK	1	12	16.18	16.17	16.21			
5	OPRSK	1	24	16.05	16.08	16.14			
5	OPRSK	12	0	16.12	16.11	16.13	17.2	0	
5	OPRSK	12	7	16.17	16.17	16.14			
5	OPRSK	12	11	16.11	16.13	16.14			
5	OPRSK	20	0	16.07	16.11	16.10	17.2	0	
5	HQAM	1	0	16.06	16.05	16.07			
5	HQAM	1	12	16.05	16.05	16.06			
5	HQAM	1	24	16.13	16.14	16.10	17.2	0	
5	HQAM	12	0	16.11	16.10	16.13			
5	HQAM	12	7	16.08	16.03	16.04			
5	HQAM	12	11	16.12	16.09	16.09	17.2	0	
5	HQAM	20	0	16.12	16.13	16.12			
5	HQAM	20	13	16.12	16.09	16.09			
5	HQAM	25	0	16.12	16.13	16.12	17.2	0	
5	HQAM	25	7	16.07	16.07	16.08			
5	HQAM	25	11	16.01	16.01	16.02			
5	HQAM	12	7	16.13	16.12	16.14	17.2	0	
5	HQAM	12	13	16.08	16.09	16.09			
5	HQAM	12	17	16.13	16.12	16.14			
5	ZSIOAM	1	0	16.03	16.09	16.02	17.2	0	
5	ZSIOAM	1	12	16.17	16.17	16.16			
5	ZSIOAM	1	24	16.01	16.02	16.02			
5	ZSIOAM	12	0	16.07	16.09	16.07	17.2	0	
5	ZSIOAM	12	7	16.06	16.03	16.04			
5	ZSIOAM	12	11	16.13	16.11	16.11			
5	ZSIOAM	20	0	16.05	16.02	16.03			
Channel									
				17743	17743	17743			
				Ch1/Freq	Ch2/Freq	Ch3/Freq			
Frequency (MHz)									
3	OPRSK	1	0	16.17	16.16	16.15	17.2	0	
3	OPRSK	1	4	16.09	16.11	16.11			
3	OPRSK	8	0	16.12	16.13	16.10	17.2	0	
3	OPRSK	8	4	16.10	16.13	16.14			
3	OPRSK	8	7	16.10	16.12	16.14			
3	OPRSK	75	0	16.09	16.11	16.10	17.2	0	
3	HQAM	1	0	16.09	16.07	16.08			
3	HQAM	1	4	16.05	16.05	16.08	17.2	0	
3	HQAM	8	0	16.09	16.16	16.10			
3	HQAM	8	7	16.09	16.10	16.10			
3	HQAM	1	0	16.12	16.09	16.09	17.2	0	
3	HQAM	4	0	16.09	16.09	16.08			
3	HQAM	8	4	16.10	16.12	16.11	17.2	0	
3	ZSIOAM	1	0	16.09	16.09	16.05			
3	ZSIOAM	1	4	16.14	16.13	16.14	17.2	0	
3	ZSIOAM	1	8	16.04	16.02	16.05			
3	ZSIOAM	8	0	16.14	16.14	16.11	17.2	0	
3	ZSIOAM	8	7	16.14	16.14	16.11			
3	ZSIOAM	15	0	16.05	16.05	16.02			
Channel									
				17743	17463	17743			
				Ch1/Freq	Ch2/Freq	Ch3/Freq			
Frequency (MHz)									
1.4	OPRSK	1	0	16.16	16.15	16.16	17.2	0	
1.4	OPRSK	1	4	16.21	16.19	16.19			
1.4	OPRSK	1	8	16.12	16.12	16.11			
1.4	OPRSK	3	0	16.10	16.1				



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				375000	376000	380000		
Frequency (MHz)				1890	1900	1900		
20	PI2 BPSK	1	1	14.85	14.86	14.71		
20	PI2 BPSK	1	53	14.83	14.81	14.69	16.0	0.0
20	PI2 BPSK	1	104	14.86	14.87	14.66		
20	PI2 BPSK	50	0	14.86	14.85	14.73	16.0	0.0
20	PI2 BPSK	50	28	14.80	14.80	14.69	16.0	0.0
20	PI2 BPSK	50	56	14.86	14.90	14.67	16.0	0.0
20	PI2 BPSK	100	0	14.85	14.87	14.68	16.0	0.0
20	QPSK	1	1	14.80	14.85	14.82		
20	QPSK	1	53	14.80	14.81	14.73	16.0	0.0
20	QPSK	1	104	14.76	14.83	14.76		
20	QPSK	50	0	14.84	14.88	14.84	16.0	0.0
20	QPSK	50	28	14.86	14.91	14.78	16.0	0.0
20	QPSK	50	56	14.78	14.90	14.64	16.0	0.0
20	QPSK	100	0	14.82	14.85	14.72	16.0	0.0
20	16QAM	1	1	14.82	14.86	14.83	16.0	0.0
20	64QAM	1	1	14.86	14.88	14.83	16.0	0.0
20	256QAM	1	1	14.83	14.84	14.74	16.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1897.5	1900	1902.5	(dBm)	(dB)
10	QPSK	1	1	14.87	14.80	14.71	16.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1865	1860	1905	(dBm)	(dB)
10	QPSK	1	1	14.79	14.81	14.71	16.0	0.0
Channel				370500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1862.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	14.75	14.87	14.65	16.0	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				372500	376000	380000		
Frequency (MHz)				1900	1900	1900		
20	PI2 BPSK	1	1	12.23	12.32	12.24		
20	PI2 BPSK	1	53	12.27	12.38	12.22	13.5	0.0
20	PI2 BPSK	1	104	12.33	12.38	12.31		
20	PI2 BPSK	50	0	12.25	12.39	12.24	13.5	0.0
20	PI2 BPSK	50	28	12.33	12.40	12.27	13.5	0.0
20	PI2 BPSK	50	56	12.23	12.38	12.31	13.5	0.0
20	PI2 BPSK	100	0	12.30	12.39	12.28	13.5	0.0
20	QPSK	1	1	12.42	12.45	12.37		
20	QPSK	1	53	12.32	12.44	12.30	13.5	0.0
20	QPSK	1	104	12.35	12.34	12.28		
20	QPSK	50	0	12.24	12.41	12.24	13.5	0.0
20	QPSK	50	28	12.36	12.43	12.31	13.5	0.0
20	QPSK	50	56	12.24	12.33	12.25	13.5	0.0
20	QPSK	100	0	12.34	12.41	12.26	13.5	0.0
20	16QAM	1	1	12.24	12.34	12.28	13.5	0.0
20	64QAM	1	1	12.28	12.35	12.28	13.5	0.0
20	256QAM	1	1	12.28	12.30	12.30	13.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1897.5	1900	1902.5	(dBm)	(dB)
10	QPSK	1	1	12.26	12.35	12.31	13.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1865	1860	1905	(dBm)	(dB)
10	QPSK	1	1	12.33	12.35	12.26	13.5	0.0
Channel				370500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1862.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	1	12.33	12.32	12.29	13.5	0.0

n25_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				374000	376000	379000		
Frequency (MHz)				1970	1922.5	1905		
40	PI2 BPSK	1	1	14.73	14.82	14.74		
40	PI2 BPSK	1	108	14.67	14.88	14.61	16.0	0.0
40	PI2 BPSK	1	214	14.67	14.66	14.65		
40	PI2 BPSK	108	0	14.64	14.60	14.59	16.0	0.0
40	PI2 BPSK	108	54	14.69	14.85	14.60	16.0	0.0
40	PI2 BPSK	108	108	14.60	14.64	14.59	16.0	0.0
40	PI2 BPSK	216	0	14.68	14.81	14.74	16.0	0.0
40	QPSK	1	1	14.65	14.97	14.62		
40	QPSK	1	108	14.76	14.87	14.70	16.0	0.0
40	QPSK	1	214	14.71	14.76	14.74		
40	QPSK	108	0	14.74	14.88	14.67	16.0	0.0
40	QPSK	108	54	14.75	14.89	14.68	16.0	0.0
40	QPSK	108	108	14.63	14.67	14.69	16.0	0.0
40	QPSK	216	0	14.78	14.89	14.81	16.0	0.0
40	16QAM	1	1	14.79	14.90	14.73	16.0	0.0
40	64QAM	1	1	14.86	14.83	14.69	16.0	0.0
40	256QAM	1	1	14.82	14.73	14.72	16.0	0.0
Channel				373500	376000	379500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1897.5	1892.5	1897.5	(dBm)	(dB)
25	QPSK	1	1	14.75	14.88	14.75	16.0	0.0
Channel				373000	376000	380000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1865	1862.5	1900	(dBm)	(dB)
30	QPSK	1	1	14.73	14.93	14.75	16.0	0.0
Channel				372500	376000	380500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1862.5	1862.5	1902.5	(dBm)	(dB)
25	QPSK	1	1	14.78	14.94	14.78	16.0	0.0
Channel				372000	376000	381000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1860	1862.5	1905	(dBm)	(dB)
20	QPSK	1	1	14.78	14.87	14.78	16.0	0.0
Channel				371500	376000	381500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1857.5	1862.5	1907.5	(dBm)	(dB)
15	QPSK	1	1	14.72	14.95	14.75	16.0	0.0
Channel				371000	376000	382000	Tune-up limit (dBm)	MPR
Frequency (MHz)				1825	1892.5	1910	(dBm)	(dB)
10	QPSK	1	1	14.70	14.91	14.79	16.0	0.0
Channel				370500	376000	382500	Tune-up limit (dBm)	MPR
Frequency (MHz)				1862.5	1862.5	1912.5	(dBm)	(dB)
5	QPSK	1	1	14.70	14.90	14.73	16.0	0.0



n25_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	11.68	11.70	11.61			
40	Pi2 BPSK	1	108	11.64	11.60	11.61	13.5	0.0	
40	Pi2 BPSK	1	214	11.60	11.66	11.56			
40	Pi2 BPSK	108	0	11.57	11.70	11.51	13.5	0.0	
40	Pi2 BPSK	108	84	11.56	11.59	11.52	13.5	0.0	
40	Pi2 BPSK	108	108	11.60	11.53	11.54	13.5	0.0	
40	Pi2 BPSK	216	0	11.68	11.71	11.51			
40	QPSK	1	1	11.71	11.66	11.56			
40	QPSK	1	108	11.65	11.63	11.62	13.5	0.0	
40	QPSK	1	214	11.68	11.71	11.56			
40	QPSK	108	0	11.67	11.77	11.57	13.5	0.0	
40	QPSK	108	84	11.62	11.61	11.56	13.5	0.0	
40	QPSK	108	108	11.64	11.63	11.55			
40	QPSK	216	0	11.70	11.76	11.60			
40	16QAM	1	1	11.62	11.84	11.57	13.5	0.0	
40	16QAM	1	1	11.65	11.81	11.62	13.5	0.0	
40	256QAM	1	1	11.62	11.62	11.58	13.5	0.0	
Channel									
Frequency (MHz)									
38	QPSK	1	1	11.63	11.70	11.47	13.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	11.59	11.62	11.52	13.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	11.56	11.58	11.54	13.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.58	11.57	11.55	13.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.61	11.60	11.56	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.59	11.55	11.59	13.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	11.61	11.54	11.58	13.5	0.0	

n66_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	16.01	16.04	15.99			
40	Pi2 BPSK	1	108	15.92	15.86	15.86	17.0	0.0	
40	Pi2 BPSK	1	214	15.82	15.88	15.84			
40	Pi2 BPSK	108	0	15.78	15.80	15.80	17.0	0.0	
40	Pi2 BPSK	108	84	15.98	16.04	15.93	17.0	0.0	
40	Pi2 BPSK	108	108	15.72	15.84	15.83	17.0	0.0	
40	Pi2 BPSK	216	0	15.95	16.06	15.88			
40	QPSK	1	1	16.05	16.11	15.92			
40	QPSK	1	108	15.96	15.92	15.94	17.0	0.0	
40	QPSK	1	214	15.90	15.91	15.93			
40	QPSK	108	0	15.85	15.85	15.88	17.0	0.0	
40	QPSK	108	84	16.01	16.06	15.91	17.0	0.0	
40	QPSK	108	108	15.80	15.86	15.88	17.0	0.0	
40	QPSK	216	0	16.00	16.10	15.90			
40	16QAM	1	1	16.03	16.06	15.85	17.0	0.0	
40	16QAM	1	1	15.97	15.83	15.85	17.0	0.0	
40	256QAM	1	1	15.81	15.84	15.87	17.0	0.0	
Channel									
Frequency (MHz)									
38	QPSK	1	1	15.95	16.04	15.85	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.98	16.04	15.87	17.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.00	16.03	15.93	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.04	16.10	15.88	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.02	16.09	15.93	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.05	16.09	15.88	17.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	16.01	16.02	15.91	17.0	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)									
40	Pi2 BPSK	1	1	13.69	13.76	13.73			
40	Pi2 BPSK	1	108	13.62	13.64	13.56	14.5	0.0	
40	Pi2 BPSK	1	214	13.63	13.76	13.73			
40	Pi2 BPSK	108	0	13.55	13.61	13.62	14.5	0.0	
40	Pi2 BPSK	108	84	13.56	13.72	13.65	14.5	0.0	
40	Pi2 BPSK	108	108	13.52	13.64	13.66	14.5	0.0	
40	Pi2 BPSK	216	0	13.57	13.68	13.71			
40	QPSK	1	1	13.75	13.82	13.81			
40	QPSK	1	108	13.70	13.74	13.65	14.5	0.0	
40	QPSK	1	214	13.67	13.78	13.77			
40	QPSK	108	0	13.65	13.70	13.64	14.5	0.0	
40	QPSK	108	84	13.66	13.78	13.75	14.5	0.0	
40	QPSK	108	108	13.61	13.73	13.74	14.5	0.0	
40	QPSK	216	0	13.65	13.75	13.72			
40	16QAM	1	1	13.65	13.72	13.76	14.5	0.0	
40	16QAM	1	1	13.69	13.69	13.59	14.5	0.0	
40	256QAM	1	1	13.60	13.76	13.68	14.5	0.0	
Channel									
Frequency (MHz)									
38	QPSK	1	1	13.68	13.76	13.80	14.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.63	13.78	13.73	14.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	13.68	13.78	13.80	14.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.63	13.74	13.73	14.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.64	13.76	13.72	14.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.69	13.76	13.77	14.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	13.68	13.72	13.72	14.5	0.0	



Full&Default Power Mode for Head

n48_FCC_Part96_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)									
40	PI2 BPSK	1	1	21.74	22.01	21.80			
40	PI2 BPSK	1	53	21.85	21.97	21.88	23.0	0.0	
40	PI2 BPSK	1	104	21.85	22.06	21.90			
40	PI2 BPSK	50	0	21.76	21.96	21.86	23.0	0.0	
40	PI2 BPSK	50	28	21.85	21.94	21.84	23.0	0.0	
40	PI2 BPSK	50	56	21.79	22.03	21.81	23.0	0.0	
40	PI2 BPSK	100	0	21.79	21.95	21.84			
40	QPSK	1	1	21.85	22.05	21.95			
40	QPSK	1	53	21.80	22.01	21.85	23.0	0.0	
40	QPSK	1	104	21.81	22.06	21.83			
40	QPSK	50	0	21.85	21.99	21.85			
40	QPSK	50	28	21.85	22.00	21.92	23.0	0.0	
40	QPSK	50	56	21.79	21.98	21.89			
40	QPSK	100	0	21.86	22.05	21.89	23.0	0.0	
40	16QAM	1	1	21.74	22.03	21.81	23.0	0.0	
40	64QAM	1	1	21.86	21.93	21.93	23.0	0.0	
40	256QAM	1	1	20.52	20.61	20.51	21.0	2.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.82	21.95	21.91	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.86	22.07	21.91	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.73	21.94	21.85	23.0	0.0	

n48_FCC_Part96_Ant 7									
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	21.54	21.72	21.57			
40	PI2 BPSK	1	53	21.59	21.67	21.48	23.0	0.0	
40	PI2 BPSK	1	104	21.56	21.63	21.57			
40	PI2 BPSK	50	0	21.60	21.71	21.49	23.0	0.0	
40	PI2 BPSK	50	28	21.59	21.71	21.49	23.0	0.0	
40	PI2 BPSK	50	56	21.60	21.65	21.53	23.0	0.0	
40	PI2 BPSK	100	0	21.55	21.68	21.51			
40	QPSK	1	1	21.55	21.75	21.55			
40	QPSK	1	53	21.61	21.69	21.48	23.0	0.0	
40	QPSK	1	104	21.65	21.68	21.57			
40	QPSK	50	0	21.59	21.61	21.48			
40	QPSK	50	28	21.64	21.65	21.62	23.0	0.0	
40	QPSK	50	56	21.60	21.61	21.59			
40	QPSK	100	0	21.54	21.69	21.47	23.0	0.0	
40	16QAM	1	1	21.54	21.66	21.46	23.0	0.0	
40	64QAM	1	1	20.29	20.38	20.31	21.5	1.5	
40	256QAM	1	1	19.03	19.08	19.06	19.5	3.5	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.53	21.74	21.52	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.62	21.64	21.51	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.65	21.63	21.50	23.0	0.0	



n48_FCC_Part96_Ant 8									
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				636000	641666	646332			
Frequency (MHz)				3969	3924.99	3979.98			
40	PI2 BPSK	1	1	20.39	20.36	20.46	21.5	0.0	
40	PI2 BPSK	1	53	20.39	20.43	20.32			
40	PI2 BPSK	1	104	20.38	20.43	20.46			
40	PI2 BPSK	50	0	20.40	20.44	20.34	21.5	0.0	
40	PI2 BPSK	50	28	20.39	20.41	20.45	21.5	0.0	
40	PI2 BPSK	50	56	20.38	20.38	20.36			
40	PI2 BPSK	100	0	20.40	20.37	20.39	21.5	0.0	
40	QPSK	1	1	20.41	20.48	20.47			
40	QPSK	1	53	20.29	20.33	20.33	21.5	0.0	
40	QPSK	1	104	20.40	20.43	20.43			
40	QPSK	50	0	20.30	20.42	20.40			
40	QPSK	50	28	20.34	20.45	20.44	21.5	0.0	
40	QPSK	50	56	20.31	20.43	20.43			
40	QPSK	100	0	20.27	20.43	20.41	21.5	0.0	
40	16QAM	1	1	18.99	18.93	18.99	21.5	0.0	
40	16QAM	1	1	18.29	18.37	18.27	20.0	1.5	
40	256QAM	1	1	18.86	18.87	18.72	18.0	3.5	
Channel				637000	641666	646332			
Frequency (MHz)				3565.02	3524.99	3584.99			
30	QPSK	1	1	20.29	20.34	20.33	21.5	0.0	
Channel				637334	641666	646000			
Frequency (MHz)				3569.03	3524.99	3589			
20	QPSK	1	1	20.39	20.43	20.46	21.5	0.0	
Channel				637000	641666	646332			
Frequency (MHz)				3555	3524.99	3584.98			
10	QPSK	1	1	20.40	20.40	20.43	21.5	0.0	

n48_FCC_Part96_Ant 10									
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				636000	641666	646332			
Frequency (MHz)				3970	3924.99	3979.98			
40	PI2 BPSK	1	1	21.86	22.05	21.89			
40	PI2 BPSK	1	53	21.89	21.98	21.86	23.0	0.0	
40	PI2 BPSK	1	104	21.86	22.05	21.82			
40	PI2 BPSK	50	0	21.98	21.95	21.82	23.0	0.0	
40	PI2 BPSK	50	28	21.93	22.03	21.92	23.0	0.0	
40	PI2 BPSK	50	56	21.88	22.02	21.86			
40	PI2 BPSK	100	0	21.88	21.98	21.83	23.0	0.0	
40	QPSK	1	1	22.01	22.07	21.95			
40	QPSK	1	53	22.00	22.06	21.94	23.0	0.0	
40	QPSK	1	104	22.00	22.04	21.88			
40	QPSK	50	0	21.92	22.00	21.92			
40	QPSK	50	28	21.95	22.02	21.94	23.0	0.0	
40	QPSK	50	56	21.87	21.79	21.89			
40	QPSK	100	0	21.93	21.88	21.96	23.0	0.0	
40	16QAM	1	1	21.90	22.00	21.96	23.0	1.5	
40	16QAM	1	1	20.42	20.46	20.34	21.5	0.0	
40	256QAM	1	1	18.39	18.45	18.31	18.5	3.5	
Channel				637000	641666	646332			
Frequency (MHz)				3565.02	3524.99	3584.99			
30	QPSK	1	1	21.93	21.92	21.85	23.0	0.0	
Channel				637334	641666	646000			
Frequency (MHz)				3569.03	3524.99	3589			
20	QPSK	1	1	21.91	21.92	21.90	23.0	0.0	
Channel				637000	641666	646332			
Frequency (MHz)				3555	3524.99	3584.98			
10	QPSK	1	1	21.96	21.97	21.92	23.0	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)				3750	3840	3930		
100	Pl2 BPSK	1	1	19.22	19.32	19.15		
100	Pl2 BPSK	1	137	19.23	19.33	19.27	20.0	0.0
100	Pl2 BPSK	1	271	19.14	19.36	19.21		
100	Pl2 BPSK	136	0	19.14	19.33	19.23	20.0	0.0
100	Pl2 BPSK	136	69	19.24	19.33	19.27	20.0	0.0
100	Pl2 BPSK	136	138	19.25	19.36	19.27	20.0	0.0
100	Pl2 BPSK	270	0	19.13	19.29	19.16		
100	QPSK	1	1	19.22	19.36	19.30		
100	QPSK	1	137	19.16	19.35	19.18	20.0	0.0
100	QPSK	1	271	19.15	19.29	19.25		
100	QPSK	136	0	19.20	19.23	19.23		
100	QPSK	136	69	19.24	19.37	19.26	20.0	0.0
100	QPSK	136	138	19.17	19.23	19.25		
100	QPSK	270	0	19.14	19.28	19.18	20.0	0.0
100	16QAM	1	1	19.27	19.23	19.28	20.0	0.0
100	16QAM	1	1	19.17	19.28	19.25	20.0	0.0
100	16QAM	1	1	19.25	19.28	19.18	20.0	0.0
Channel								
Frequency (MHz)				648668	656000	663332	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.21	19.28	19.19	20.0	0.0
Channel				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.16	19.28	19.29	20.0	0.0
Channel				648001	664000	671999	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.23	19.35	19.20	20.0	0.0
Channel				648668	656000	663332	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.23	19.27	19.29	20.0	0.0
Channel				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.25	19.28	19.29	20.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.21	19.35	19.18	20.0	0.0
Channel				647668	656000	665332	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.27	19.23	19.19	20.0	0.0
Channel				647334	656000	665666	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.27	19.32	19.22	20.0	0.0
Channel				647188	656000	665832	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.13	19.23	19.24	20.0	0.0
Channel				647000	656000	666000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.17	19.33	19.24	20.0	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)				3750	3840	3930		
100	Pl2 BPSK	1	1	21.88	22.21	21.99		
100	Pl2 BPSK	1	137	22.07	22.10	21.97	23.0	0.0
100	Pl2 BPSK	1	271	22.03	22.24	22.03		
100	Pl2 BPSK	136	0	22.09	22.19	22.04	23.0	0.0
100	Pl2 BPSK	136	69	22.01	22.22	21.97	23.0	0.0
100	Pl2 BPSK	136	138	22.06	22.17	22.10	23.0	0.0
100	Pl2 BPSK	270	0	22.02	22.19	22.20		
100	QPSK	1	1	22.10	22.25	22.12		
100	QPSK	1	137	22.08	22.24	22.04	23.0	0.0
100	QPSK	1	271	22.03	22.11	22.05		
100	QPSK	136	0	21.97	22.12	21.97		
100	QPSK	136	69	22.08	22.17	22.10	23.0	0.0
100	QPSK	136	138	22.05	22.10	22.09		
100	QPSK	270	0	22.02	22.13	22.08	23.0	0.0
100	16QAM	1	1	22.08	22.17	22.05	23.0	0.0
100	16QAM	1	1	21.95	22.15	22.04	23.0	0.0
100	16QAM	1	1	21.95	22.17	22.06	23.0	0.0
Channel								
Frequency (MHz)				648668	656000	663332	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	22.01	22.14	22.06	23.0	0.0
Channel				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	22.01	22.14	22.08	23.0	0.0
Channel				648001	664000	671999	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.07	22.19	22.04	23.0	0.0
Channel				648668	656000	663332	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	21.99	22.15	22.03	23.0	0.0
Channel				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	22.03	22.23	22.06	23.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	21.97	22.18	22.07	23.0	0.0
Channel				647668	656000	665332	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.00	22.19	22.05	23.0	0.0
Channel				647334	656000	665666	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.06	22.12	21.99	23.0	0.0
Channel				647188	656000	665832	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	21.97	22.17	22.06	23.0	0.0
Channel				647000	656000	666000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.05	22.16	22.09	23.0	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)				3491.98				
100	Pl2 BPSK	1	1	19.07				
100	Pl2 BPSK	1	137	19.05			20.0	0.0
100	Pl2 BPSK	1	271	19.12				
100	Pl2 BPSK	136	0	19.03			20.0	0.0
100	Pl2 BPSK	136	69	19.10			20.0	0.0
100	Pl2 BPSK	136	138	19.00			20.0	0.0
100	Pl2 BPSK	270	0	19.05				
100	QPSK	1	1	19.15				
100	QPSK	1	137	19.02			20.0	0.0
100	QPSK	1	271	19.01				
100	QPSK	136	0	19.06				
100	QPSK	136	69	19.07			20.0	0.0
100	QPSK	136	138	19.00				
100	QPSK	270	0	19.14			20.0	0.0
100	16QAM	1	1	19.09			20.0	0.0
100	16QAM	1	1	19.11			20.0	0.0
100	16QAM	1	1	19.13			20.0	0.0
Channel								
Frequency (MHz)				633000	633332	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.00	19.05	19.06	20.0	0.0
Channel				633668	633332	633000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.05	19.07	19.04	20.0	0.0
Channel				633000	633332	633668	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.11	19.00	19.12	20.0	0.0
Channel				633668	633332	633000	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.14	19.14	19.06	20.0	0.0
Channel				633668	633332	633000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.13	19.03	19.05	20.0	0.0
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.09	19.02	19.01	20.0	0.0
Channel				633000	633332	633668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	19.09	19.13	19.02	20.0	0.0
Channel				633668	633332	633000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.06	19.10	19.12	20.0	0.0
Channel				633000	633332	633668	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.06	19.12	19.01	20.0	0.0
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.02	19.05	19.14	20.0	0.0



Par27Q n77_Ant 4_HPUE										
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	22.00	22.00	22.00	23.0	0.0		
100	PI2 BPSK	1	137	22.10	22.10	22.10	23.0	0.0		
100	PI2 BPSK	1	271	22.00	22.00	22.00	23.0	0.0		
100	PI2 BPSK	135	0	22.05	22.05	22.05	23.0	0.0		
100	PI2 BPSK	135	69	22.00	22.00	22.00	23.0	0.0		
100	PI2 BPSK	135	138	22.00	22.00	22.00	23.0	0.0		
100	PI2 BPSK	270	0	22.12	22.12	22.12	23.0	0.0		
100	QPSK	1	1	22.05	22.05	22.05	23.0	0.0		
100	QPSK	1	137	22.10	22.10	22.10	23.0	0.0		
100	QPSK	1	271	22.00	22.00	22.00	23.0	0.0		
100	QPSK	135	0	22.03	22.03	22.03	23.0	0.0		
100	QPSK	135	69	22.00	22.00	22.00	23.0	0.0		
100	QPSK	135	138	22.00	22.00	22.00	23.0	0.0		
100	QPSK	270	0	22.18	22.18	22.18	23.0	0.0		
100	16QAM	1	1	22.10	22.10	22.10	23.0	0.0		
100	64QAM	1	1	21.98	21.98	21.98	23.0	0.0		
100	256QAM	1	1	22.00	22.00	22.00	23.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	22.00	22.00	22.00	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.05	22.05	22.05	23.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.99	22.03	22.01	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	22.03	22.03	22.00	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.05	22.05	22.10	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.05	22.05	22.00	23.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.08	22.06	22.00	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.04	21.99	22.00	23.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.11	22.03	22.11	23.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.10	22.01	22.03	23.0	0.0		

Par27Q n77_Ant 7										
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	19.07	19.05	19.01	20.0	0.0		
100	PI2 BPSK	1	137	18.93	19.06	18.96	20.0	0.0		
100	PI2 BPSK	1	271	19.05	19.11	18.98	20.0	0.0		
100	PI2 BPSK	135	0	19.04	19.01	18.99	20.0	0.0		
100	PI2 BPSK	135	69	19.00	19.09	18.96	20.0	0.0		
100	PI2 BPSK	135	138	19.00	19.12	19.00	20.0	0.0		
100	PI2 BPSK	270	0	18.96	19.08	18.99	20.0	0.0		
100	QPSK	1	1	19.03	19.15	19.02	20.0	0.0		
100	QPSK	1	137	18.94	19.10	18.98	20.0	0.0		
100	QPSK	1	271	18.96	19.11	18.99	20.0	0.0		
100	QPSK	135	0	18.96	19.04	18.97	20.0	0.0		
100	QPSK	135	69	18.97	19.14	18.94	20.0	0.0		
100	QPSK	135	138	18.94	19.02	18.91	20.0	0.0		
100	QPSK	270	0	19.06	19.07	19.00	20.0	0.0		
100	16QAM	1	1	18.98	19.06	18.93	20.0	0.0		
100	64QAM	1	1	19.07	19.14	18.95	20.0	0.0		
100	256QAM	1	1	18.99	19.09	18.91	20.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	19.00	19.11	18.90	20.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.95	19.05	18.98	20.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	19.04	19.10	18.93	20.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.01	19.05	18.92	20.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.95	19.03	19.00	20.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	19.02	19.14	18.88	20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.04	19.05	18.98	20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.99	19.14	18.91	20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.01	19.10	18.96	20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.96	19.10	18.92	20.0	0.0		

Par27Q n77_Ant 7_HPUE										
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	20.99	21.03	20.99	22.0	0.0		
100	PI2 BPSK	1	137	20.93	20.94	20.87	22.0	0.0		
100	PI2 BPSK	1	271	20.91	20.99	20.84	22.0	0.0		
100	PI2 BPSK	135	0	20.96	20.98	20.86	22.0	0.0		
100	PI2 BPSK	135	69	20.90	20.91	20.83	22.0	0.0		
100	PI2 BPSK	135	138	20.88	20.92	20.84	22.0	0.0		
100	PI2 BPSK	270	0	20.97	20.92	20.84	22.0	0.0		
100	QPSK	1	1	21.00	21.05	20.95	22.0	0.0		
100	QPSK	1	137	20.90	21.00	20.81	22.0	0.0		
100	QPSK	1	271	20.89	20.93	20.93	22.0	0.0		
100	QPSK	135	0	20.85	20.95	20.86	22.0	0.0		
100	QPSK	135	69	20.87	20.99	20.84	22.0	0.0		
100	QPSK	135	138	20.86	20.94	20.86	22.0	0.0		
100	QPSK	270	0	20.92	20.95	20.94	22.0	0.0		
100	16QAM	1	1	20.98	20.98	20.94	22.0	0.0		
100	64QAM	1	1	20.91	21.03	20.82	22.0	0.0		
100	256QAM	1	1	20.70	20.75	20.71	22.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	20.91	21.03	20.87	22.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.86	20.97	20.91	22.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	20.85	21.03	20.85	22.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	20.87	20.97	20.90	22.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.89	20.99	20.83	22.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.88	20.91	20.89	22.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.84	21.02	20.81	22.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.94	20.93	20.94	22.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.96	21.03	20.81	22.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.87	21.02	20.93	22.0	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)								
100	PI2 BPSK	1	1	15.11	3499.98			
100	PI2 BPSK	1	137	19.17			20.0	0.0
100	PI2 BPSK	1	271	18.09				
100	PI2 BPSK	135	0	19.16			20.0	0.0
100	PI2 BPSK	135	69	19.12			20.0	0.0
100	PI2 BPSK	135	138	19.16			20.0	0.0
100	PI2 BPSK	270	0	19.14				
100	QPSK	1	1	19.18				
100	QPSK	1	137	19.06			20.0	0.0
100	QPSK	1	271	19.07				
100	QPSK	135	0	19.15				
100	QPSK	135	69	19.16			20.0	0.0
100	QPSK	135	138	19.05			20.0	0.0
100	QPSK	270	0	19.16			20.0	0.0
100	16QAM	1	1	19.15			20.0	0.0
100	64QAM	1	1	19.09			20.0	0.0
100	256QAM	1	1	19.04			20.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.10	63332	63966	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.10	63332	63400	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.11	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.16	19.07	19.04	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.15	19.10	19.11	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.10	3499.98	3529.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.10	19.09	19.05	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.06	19.16	19.05	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.06	19.04	19.10	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.10	19.11	19.04	Tune-up limit (dBm)	MPR (dB)

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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)								
100	PI2 BPSK	1	1	20.81				
100	PI2 BPSK	1	137	20.83			22.0	0.0
100	PI2 BPSK	1	271	20.74				
100	PI2 BPSK	135	0	20.76			22.0	0.0
100	PI2 BPSK	135	69	20.78			22.0	0.0
100	PI2 BPSK	135	138	20.77			22.0	0.0
100	PI2 BPSK	270	0	20.85				
100	QPSK	1	1	20.89				
100	QPSK	1	137	20.86			22.0	0.0
100	QPSK	1	271	20.82				
100	QPSK	135	0	20.81				
100	QPSK	135	69	20.82			22.0	0.0
100	QPSK	135	138	20.80			22.0	0.0
100	QPSK	270	0	20.84			22.0	0.0
100	16QAM	1	1	20.81			22.0	0.0
100	64QAM	1	1	20.75			22.0	0.0
100	256QAM	1	1	20.65			22.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.82	63332	63966	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.72	63332	63400	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.74	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.67	20.76	20.71	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.69	20.68	20.76	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.74	3499.98	3529.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.71	20.79	20.76	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.64	20.76	20.67	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.60	20.80	20.69	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	20.61	20.79	20.69	Tune-up limit (dBm)	MPR (dB)

Par27Q n77_Ant 8

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	15.37	3760	3940		
100	PI2 BPSK	1	137	15.39	15.52	15.48	17.0	0.0
100	PI2 BPSK	1	271	15.38	15.46	15.41		
100	PI2 BPSK	135	0	15.38	15.48	15.54	17.0	0.0
100	PI2 BPSK	135	69	15.46	15.57	15.49	17.0	0.0
100	PI2 BPSK	135	138	15.39	15.45	15.46	17.0	0.0
100	PI2 BPSK	270	0	15.41	15.46	15.53		
100	QPSK	1	1	15.51	15.50	15.55		
100	QPSK	1	137	15.47	15.59	15.40	17.0	0.0
100	QPSK	1	271	15.39	15.53	15.41		
100	QPSK	135	0	15.39	15.52	15.50		
100	QPSK	135	69	15.48	15.56	15.51	17.0	0.0
100	QPSK	135	138	15.37	15.45	15.46		
100	QPSK	270	0	15.38	15.59	15.44	17.0	0.0
100	16QAM	1	1	15.46	15.56	15.48	17.0	0.0
100	64QAM	1	1	15.48	15.58	15.53	17.0	0.0
100	256QAM	1	1	15.38	15.56	15.41	17.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.45	15.52	15.50	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.50	15.54	15.43	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.43	15.47	15.48	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.41	15.51	15.51	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.40	15.47	15.42	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.47	15.58	15.42	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.38	15.53	15.48	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.43	15.54	15.40	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.38	15.56	15.44	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.40	15.52	15.42	Tune-up limit (dBm)	MPR (dB)



Par270 n77_Ant 8_HPUE									
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	17.54	17.65	17.52			
100	PI2 BPSK	1	137	17.54	17.58	17.55	19.0	0.0	
100	PI2 BPSK	1	271	17.47	17.59	17.47			
100	PI2 BPSK	135	0	17.52	17.64	17.49	19.0	0.0	
100	PI2 BPSK	135	69	17.47	17.60	17.36	19.0	0.0	
100	PI2 BPSK	135	138	17.48	17.58	17.51			
100	PI2 BPSK	270	0	17.37	17.67	17.53	19.0	0.0	
100	QPSK	1	1	17.52	17.68	17.62			
100	QPSK	1	137	17.48	17.62	17.50	19.0	0.0	
100	QPSK	1	271	17.45	17.59	17.50			
100	QPSK	135	0	17.50	17.81	17.43			
100	QPSK	135	69	17.45	17.64	17.51	19.0	0.0	
100	QPSK	135	138	17.43	17.62	17.46			
100	QPSK	270	0	17.52	17.60	17.45	19.0	0.0	
100	16QAM	1	1	17.53	17.52	17.64	19.0	0.0	
100	64QAM	1	1	17.52	17.54	17.36	19.0	0.0	
100	256QAM	1	1	17.56	16.89	17.63	18.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.60	17.60	17.67	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.66	17.66	17.65	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.60	17.60	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.64	17.58	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.64	17.60	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.60	17.60	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.60	17.59	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.64	17.61	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.58	17.63	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.63	17.59	17.67	19.0	0.0	

Par270 n77_Ant 8									
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	14.83					
100	PI2 BPSK	1	137	14.80			16.5	0.0	
100	PI2 BPSK	1	271	14.91					
100	PI2 BPSK	135	0	14.81			16.5	0.0	
100	PI2 BPSK	135	69	14.85			16.5	0.0	
100	PI2 BPSK	135	138	14.91					
100	PI2 BPSK	270	0	14.88			16.5	0.0	
100	QPSK	1	1	14.85					
100	QPSK	1	137	14.89			16.5	0.0	
100	QPSK	1	271	14.87					
100	QPSK	135	0	14.82					
100	QPSK	135	69	14.89			16.5	0.0	
100	QPSK	135	138	14.84					
100	QPSK	270	0	14.87			16.5	0.0	
100	16QAM	1	1	14.92			16.5	0.0	
100	64QAM	1	1	14.88			16.5	0.0	
100	256QAM	1	1	14.93			16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.80	14.80	14.79	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.82	14.89	14.81	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.83	14.87	14.83	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.82	14.81	14.81	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.78	14.83	14.79	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.80	14.84	14.81	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.87	14.81	14.80	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.82	14.83	14.79	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.83	14.82	14.89	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.82	14.80	14.83	16.5	0.0	

Par270 n77_Ant 8_HPUE									
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	16.85					
100	PI2 BPSK	1	137	17.00			18.5	0.0	
100	PI2 BPSK	1	271	16.96					
100	PI2 BPSK	135	0	16.98			18.5	0.0	
100	PI2 BPSK	135	69	16.97			18.5	0.0	
100	PI2 BPSK	135	138	17.00					
100	PI2 BPSK	270	0	16.88			18.5	0.0	
100	QPSK	1	1	17.03					
100	QPSK	1	137	16.88			18.5	0.0	
100	QPSK	1	271	16.91					
100	QPSK	135	0	16.92					
100	QPSK	135	69	17.00			18.5	0.0	
100	QPSK	135	138	16.98					
100	QPSK	270	0	16.96			18.5	0.0	
100	16QAM	1	1	16.95			18.5	0.0	
100	64QAM	1	1	17.00			18.5	0.0	
100	256QAM	1	1	16.98			18.0	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.83	16.80	17.01	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.94	16.89	17.00	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.92	17.00	16.94	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.88	16.98	16.90	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.88	16.97	16.98	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.91	16.84	17.01	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.90	16.95	16.94	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.97	17.02	16.88	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.90	17.02	16.93	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.89	17.01	16.99	18.5	0.0	



Par270 n77_Ant 10									
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	17.74	17.79	17.72			
100	PI2 BPSK	1	137	17.68	17.76	17.73	19.0	0.0	
100	PI2 BPSK	1	271	17.66	17.69	17.66			
100	PI2 BPSK	135	0	17.71	17.73	17.61	19.0	0.0	
100	PI2 BPSK	135	69	17.70	17.70	17.65	19.0	0.0	
100	PI2 BPSK	135	138	17.66	17.70	17.70	19.0	0.0	
100	PI2 BPSK	270	0	17.68	17.68	17.68			
100	QPSK	1	1	17.65	17.62	17.70			
100	QPSK	1	137	17.66	17.76	17.64	19.0	0.0	
100	QPSK	1	271	17.70	17.67	17.75			
100	QPSK	135	0	17.88	17.69	17.65			
100	QPSK	135	69	17.72	17.78	17.69	19.0	0.0	
100	QPSK	135	138	17.70	17.67	17.62			
100	QPSK	270	0	17.74	17.77	17.68	19.0	0.0	
100	16QAM	1	1	17.78	17.71	17.61	19.0	0.0	
100	64QAM	1	1	17.66	17.77	17.66	19.0	0.0	
100	256QAM	1	1	17.66	17.61	17.61	19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.72	17.72	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.66	17.71	17.67	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.75	17.81	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.79	17.70	17.73	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.72	17.73	17.65	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.71	17.81	17.67	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.73	17.69	17.72	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.71	17.67	17.66	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.74	17.79	17.75	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.72	17.70	17.62	19.0	0.0	

Par270 n77_Ant_10_HPUE									
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	19.53	19.65	19.59			
100	PI2 BPSK	1	137	19.58	19.63	19.68	21.0	0.0	
100	PI2 BPSK	1	271	19.56	19.68	19.59			
100	PI2 BPSK	135	0	19.66	19.60	19.66	21.0	0.0	
100	PI2 BPSK	135	69	19.61	19.65	19.62	21.0	0.0	
100	PI2 BPSK	135	138	19.56	19.65	19.62	21.0	0.0	
100	PI2 BPSK	270	0	19.68	19.73	19.62			
100	QPSK	1	1	19.70	19.75	19.72			
100	QPSK	1	137	19.62	19.69	19.68	21.0	0.0	
100	QPSK	1	271	19.68	19.72	19.60			
100	QPSK	135	0	19.67	19.69	19.69			
100	QPSK	135	69	19.61	19.71	19.71	21.0	0.0	
100	QPSK	135	138	19.66	19.60	19.68			
100	QPSK	270	0	19.61	19.62	19.58	21.0	0.0	
100	16QAM	1	1	19.67	19.73	19.67	21.0	0.0	
100	64QAM	1	1	19.55	19.72	19.69	21.0	0.0	
100	256QAM	1	1	19.11	19.16	19.14	20.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.56	19.63	19.59	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.66	19.67	19.62	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.66	19.67	19.70	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.67	19.71	19.71	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.59	19.68	19.64	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.60	19.62	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.64	19.68	19.58	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.55	19.65	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.61	19.69	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.61	19.71	19.62	21.0	0.0	

Par270 n77_Ant 10									
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	17.67					
100	PI2 BPSK	1	137	17.75			19.0	0.0	
100	PI2 BPSK	1	271	17.76					
100	PI2 BPSK	135	0	17.73			19.0	0.0	
100	PI2 BPSK	135	69	17.76			19.0	0.0	
100	PI2 BPSK	135	138	17.83			19.0	0.0	
100	PI2 BPSK	270	0	17.85					
100	QPSK	1	1	17.88					
100	QPSK	1	137	17.76			19.0	0.0	
100	QPSK	1	271	17.80					
100	QPSK	135	0	17.73					
100	QPSK	135	69	17.8			19.0	0.0	
100	QPSK	135	138	17.74					
100	QPSK	270	0	17.75			19.0	0.0	
100	16QAM	1	1	17.87			19.0	0.0	
100	64QAM	1	1	17.77			19.0	0.0	
100	256QAM	1	1	17.62			19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.77	17.75	17.61	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.67	17.84	17.86	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.79	17.76	17.88	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.75	17.87	17.87	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.77	17.81	17.82	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.80	17.79	17.83	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.78	17.73	17.87	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.74	17.78	17.82	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.87	17.81	17.76	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.85	17.78	17.67	19.0	0.0	



Par27Q n77_Ant 10_HPUE									
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	19.73	3499.98				
100	PI2 BPSK	1	137	19.70			21.0	0.0	
100	PI2 BPSK	1	271	19.81					
100	PI2 BPSK	135	0	19.78			21.0	0.0	
100	PI2 BPSK	135	69	19.72			21.0	0.0	
100	PI2 BPSK	135	138	19.69			21.0	0.0	
100	PI2 BPSK	270	0	19.69					
100	QPSK	1	1	19.83					
100	QPSK	1	137	19.75			21.0	0.0	
100	QPSK	1	271	19.68					
100	QPSK	135	0	19.78					
100	QPSK	135	69	19.78			21.0	0.0	
100	QPSK	135	138	19.68			21.0	0.0	
100	QPSK	270	0	19.68					
100	16QAM	1	1	19.79			21.0	0.0	
100	16QAM	1	1	19.79			21.0	0.0	
100	256QAM	1	1	19.17			20.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.71	19.82	19.78	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.71	19.71	19.80	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.71	19.68	19.82	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.71	19.77	19.74	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.69	19.70	19.74	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.83	19.80	19.71	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.71	19.70	19.77	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.71	19.68	19.81	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.70	19.72	19.72	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.82	19.70	19.81	21.0	0.0	

Par270 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)									
100	PI2 BPSK	1	1	19.28	3750				
100	PI2 BPSK	1	137	19.23			20.0	0.0	
100	PI2 BPSK	1	271	19.22					
100	PI2 BPSK	135	0	19.19			20.0	0.0	
100	PI2 BPSK	135	69	19.21			20.0	0.0	
100	PI2 BPSK	135	138	19.27			20.0	0.0	
100	PI2 BPSK	270	0	19.24					
100	QPSK	1	1	19.28					
100	QPSK	1	137	19.21			20.0	0.0	
100	QPSK	1	271	19.20					
100	QPSK	135	0	19.22					
100	QPSK	135	69	19.24			20.0	0.0	
100	QPSK	135	138	19.21			20.0	0.0	
100	QPSK	270	0	19.13			20.0	0.0	
100	16QAM	1	1	19.25			20.0	0.0	
100	16QAM	1	1	19.19			20.0	0.0	
100	256QAM	1	1	19.14			20.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.27	19.24	19.22	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.25	19.10	19.10	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.23	19.18	19.11	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.23	19.24	19.12	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.24	19.23	19.13	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.25	19.22	19.20	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.13	19.14	19.22	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.13	19.24	19.19	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.14	19.24	19.20	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.10	19.20	19.19	20.0	0.0	

Par270 n78_Ant 4_HPUE									
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	21.89	3750				
100	PI2 BPSK	1	137	21.93			23.0	0.0	
100	PI2 BPSK	1	271	21.88					
100	PI2 BPSK	135	0	21.90			23.0	0.0	
100	PI2 BPSK	135	69	21.93			23.0	0.0	
100	PI2 BPSK	135	138	21.88			23.0	0.0	
100	PI2 BPSK	270	0	21.88					
100	QPSK	1	1	22.05					
100	QPSK	1	137	21.98			23.0	0.0	
100	QPSK	1	271	21.99					
100	QPSK	135	0	21.90					
100	QPSK	135	69	21.97			23.0	0.0	
100	QPSK	135	138	21.95			23.0	0.0	
100	QPSK	270	0	21.86			23.0	0.0	
100	16QAM	1	1	21.93			23.0	0.0	
100	16QAM	1	1	21.88			23.0	0.0	
100	256QAM	1	1	21.97			23.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.89	21.84	21.92	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.95	21.92	21.97	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.82	21.98	21.94	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.82	21.94	21.94	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.93	21.92	21.93	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.87	21.87	21.88	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.83	21.94	21.93	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.85	21.85	21.87	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.98	21.92	21.85	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.85	21.95	21.94	23.0	0.0	



Part27Q 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				633332	633332	633332			
Frequency (MHz)				3493.98	3493.98	3493.98			
100	PI2 BPSK	1	1	18.97	19.05	19.08	20.0	0.0	
100	PI2 BPSK	1	137	18.97	19.05	19.08	20.0	0.0	
100	PI2 BPSK	1	271	18.97	19.05	19.08	20.0	0.0	
100	PI2 BPSK	135	0	18.97	19.05	19.08	20.0	0.0	
100	PI2 BPSK	135	69	18.97	19.05	19.08	20.0	0.0	
100	PI2 BPSK	135	138	18.97	19.05	19.08	20.0	0.0	
100	PI2 BPSK	270	0	18.97	19.05	19.08	20.0	0.0	
100	QPSK	1	1	18.98	19.05	19.08	20.0	0.0	
100	QPSK	1	137	18.98	19.05	19.08	20.0	0.0	
100	QPSK	1	271	18.98	19.05	19.08	20.0	0.0	
100	QPSK	135	0	18.95	19.05	19.08	20.0	0.0	
100	QPSK	135	69	18.95	19.05	19.08	20.0	0.0	
100	QPSK	135	138	18.95	19.05	19.08	20.0	0.0	
100	QPSK	270	0	18.95	19.05	19.08	20.0	0.0	
100	16QAM	1	1	18.95	19.05	19.08	20.0	0.0	
100	16QAM	1	1	18.95	19.05	19.08	20.0	0.0	
100	256QAM	1	1	18.95	19.05	19.08	20.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.98			
90	QPSK	1	1	18.92	18.95	19.00	20.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	18.96	19.05	19.06	20.0	0.0	
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	19.04	19.03	19.01	20.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3489	3499.98	3518.98			
60	QPSK	1	1	18.94	19.06	19.06	20.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3476.02	3499.98	3524			
50	QPSK	1	1	18.90	19.05	19.06	20.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	19.01	19.03	19.02	20.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.98			
30	QPSK	1	1	19.01	19.00	19.02	20.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	18.99	19.08	19.06	20.0	0.0	
Channel				630500	633332	636366	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.5			
15	QPSK	1	1	18.92	19.04	18.94	20.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3453.01	3499.98	3544.98			
10	QPSK	1	1	18.95	19.05	18.95	20.0	0.0	

Part27Q n78_Ant 4_HPUE									
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				633332	633332	633332			
Frequency (MHz)				2199	2199	2199			
100	PI2 BPSK	1	1	21.92	21.92	21.92	23.0	0.0	
100	PI2 BPSK	1	137	21.92	21.92	21.92	23.0	0.0	
100	PI2 BPSK	1	271	21.92	21.92	21.92	23.0	0.0	
100	PI2 BPSK	135	0	21.94	21.94	21.94	23.0	0.0	
100	PI2 BPSK	135	69	21.93	21.93	21.93	23.0	0.0	
100	PI2 BPSK	135	138	21.99	21.99	21.99	23.0	0.0	
100	PI2 BPSK	270	0	21.90	21.90	21.90	23.0	0.0	
100	QPSK	1	1	22.05	22.05	22.05	23.0	0.0	
100	QPSK	1	137	21.98	21.98	21.98	23.0	0.0	
100	QPSK	1	271	22.01	22.01	22.01	23.0	0.0	
100	QPSK	135	0	21.92	21.92	21.92	23.0	0.0	
100	QPSK	135	69	21.99	21.99	21.99	23.0	0.0	
100	QPSK	135	138	21.97	21.97	21.97	23.0	0.0	
100	QPSK	270	0	21.94	21.94	21.94	23.0	0.0	
100	16QAM	1	1	21.95	21.95	21.95	23.0	0.0	
100	16QAM	1	1	21.91	21.91	21.91	23.0	0.0	
100	256QAM	1	1	21.93	21.93	21.93	23.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.98			
90	QPSK	1	1	21.90	21.91	22.02	23.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510			
80	QPSK	1	1	21.99	21.91	22.00	23.0	0.0	
Channel				633334	633332	633332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	QPSK	1	1	21.93	21.97	22.03	23.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3489	3499.98	3518.98			
60	QPSK	1	1	22.03	21.95	22.01	23.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3476.02	3499.98	3524			
50	QPSK	1	1	22.01	21.90	21.98	23.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	QPSK	1	1	22.00	22.02	21.91	23.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.98			
30	QPSK	1	1	21.97	21.95	21.91	23.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	QPSK	1	1	21.98	21.90	22.02	23.0	0.0	
Channel				630500	633332	636366	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3499.98	3542.5			
15	QPSK	1	1	21.98	21.90	22.02	23.0	0.0	
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3453.01	3499.98	3544.98			
10	QPSK	1	1	21.90	21.93	21.98	23.0	0.0	



Par270 n78_Ant 7									
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)									
100	PI2 BPSK	1	1	19.07	19.07	19.07			
100	PI2 BPSK	1	137	18.96	18.96	18.96	20.0	0.0	
100	PI2 BPSK	1	271	18.07	18.07	18.07			
100	PI2 BPSK	135	0	19.07	19.07	19.07	20.0	0.0	
100	PI2 BPSK	135	69	18.96	18.96	18.96	20.0	0.0	
100	PI2 BPSK	135	138	18.96	18.96	18.96	20.0	0.0	
100	PI2 BPSK	270	0	19.01	19.01	19.01	20.0	0.0	
100	QPSK	1	1	18.08	18.08	18.08			
100	QPSK	1	137	18.93	18.93	18.93	20.0	0.0	
100	QPSK	1	271	18.07	18.07	18.07			
100	QPSK	135	0	18.97	18.97	18.97	20.0	0.0	
100	QPSK	135	69	18.96	18.96	18.96	20.0	0.0	
100	QPSK	135	138	18.96	18.96	18.96	20.0	0.0	
100	QPSK	270	0	18.98	18.98	18.98	20.0	0.0	
100	16QAM	1	1	18.97	18.97	18.97	20.0	0.0	
100	64QAM	1	1	18.98	18.98	18.98	20.0	0.0	
100	256QAM	1	1	19.00	19.00	19.00	20.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.96	18.96	18.96	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.05	18.94	19.05	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.96	18.96	18.96	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.97	18.97	18.97	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.95	18.94	19.01	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.00	19.00	19.00	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.97	18.05	18.98	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.00	19.07	19.00	20.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.02	19.03	19.01	20.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.96	18.96	18.97	20.0	0.0	

Par270 n78_Ant 7_HPUE									
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)									
100	PI2 BPSK	1	1	20.99	20.99	20.99			
100	PI2 BPSK	1	137	20.91	20.91	20.91	22.0	0.0	
100	PI2 BPSK	1	271	21.01	21.01	21.01			
100	PI2 BPSK	135	0	20.98	20.98	20.98	22.0	0.0	
100	PI2 BPSK	135	69	21.00	21.00	21.00	22.0	0.0	
100	PI2 BPSK	135	138	20.98	20.98	20.98	22.0	0.0	
100	PI2 BPSK	270	0	20.93	20.93	20.93	22.0	0.0	
100	QPSK	1	1	21.03	21.03	21.03			
100	QPSK	1	137	20.98	20.98	20.98	22.0	0.0	
100	QPSK	1	271	20.94	20.94	20.94			
100	QPSK	135	0	20.96	20.96	20.96	22.0	0.0	
100	QPSK	135	69	20.99	20.99	20.99	22.0	0.0	
100	QPSK	135	138	20.91	20.91	20.91	22.0	0.0	
100	QPSK	270	0	20.96	20.96	20.96	22.0	0.0	
100	16QAM	1	1	20.89	20.89	20.89	22.0	0.0	
100	64QAM	1	1	20.92	20.92	20.92	22.0	0.0	
100	256QAM	1	1	20.99	20.99	20.99	22.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.93	20.98	20.91	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.94	20.99	21.00	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.01	20.94	20.97	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.01	20.90	21.02	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.91	20.90	20.97	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.90	20.88	20.93	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.95	20.97	20.98	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.99	21.01	20.92	22.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.98	20.90	21.02	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.90	21.01	20.90	22.0	0.0	



Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	19.13	3499.98		
100	PI2 BPSK	1	137	19.05		20.0	0.0
100	PI2 BPSK	1	271	18.06			
100	PI2 BPSK	135	0	19.14		20.0	0.0
100	PI2 BPSK	135	69	19.12		20.0	0.0
100	PI2 BPSK	135	138	19.06		20.0	0.0
100	PI2 BPSK	270	0	19.08			
100	QPSK	1	1	19.15			
100	QPSK	1	137	19.15		20.0	0.0
100	QPSK	1	271	19.07			
100	QPSK	135	0	19.01			
100	QPSK	135	69	19.10		20.0	0.0
100	QPSK	135	138	19.05		20.0	0.0
100	QPSK	270	0	19.04		20.0	0.0
100	16QAM	1	1	19.01		20.0	0.0
100	64QAM	1	1	19.10		20.0	0.0
100	256QAM	1	1	19.12		20.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	19.02	19.11	19.12	20.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.02	19.07	19.04	20.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.08	19.08	19.05	20.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	19.13	19.14	19.14	20.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.01	19.15	19.01	20.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.02	19.03	19.02	20.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.15	19.03	19.04	20.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.01	19.14	19.14	20.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.12	19.11	19.11	20.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.04	19.13	19.09	20.0

Part27Q n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MFR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	20.73	3499.98		
100	PI2 BPSK	1	137	20.83		22.0	0.0
100	PI2 BPSK	1	271	20.80			
100	PI2 BPSK	135	0	20.85		22.0	0.0
100	PI2 BPSK	135	69	20.73		22.0	0.0
100	PI2 BPSK	135	138	20.84		22.0	0.0
100	PI2 BPSK	270	0	20.83			
100	QPSK	1	1	20.88			
100	QPSK	1	137	20.77		22.0	0.0
100	QPSK	1	271	20.74			
100	QPSK	135	0	20.73			
100	QPSK	135	69	20.77		22.0	0.0
100	QPSK	135	138	20.78		22.0	0.0
100	QPSK	270	0	20.76		22.0	0.0
100	16QAM	1	1	20.76		22.0	0.0
100	64QAM	1	1	20.81		22.0	0.0
100	256QAM	1	1	20.77		22.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.80	20.85	20.84	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.82	20.74	20.78	22.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.80	20.75	20.86	22.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.88	20.88	20.81	22.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.83	20.84	20.82	22.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.80	20.78	20.74	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.75	20.78	20.87	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.85	20.82	20.75	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.80	20.85	20.80	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.85	20.80	20.82	22.0



Par270 n78_Ant 8									
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	15.53	3750				
100	PI2 BPSK	1	137	15.47			17.0	0.0	
100	PI2 BPSK	1	271	15.50					
100	PI2 BPSK	135	0	15.44			17.0	0.0	
100	PI2 BPSK	135	69	15.50			17.0	0.0	
100	PI2 BPSK	135	138	15.48			17.0	0.0	
100	PI2 BPSK	270	0	15.48					
100	QPSK	1	1	15.58					
100	QPSK	1	137	15.44			17.0	0.0	
100	QPSK	1	271	15.43					
100	QPSK	135	0	15.45					
100	QPSK	135	69	15.51			17.0	0.0	
100	QPSK	135	138	15.46			17.0	0.0	
100	QPSK	270	0	15.43			17.0	0.0	
100	16QAM	1	1	15.55			17.0	0.0	
100	64QAM	1	1	15.52			17.0	0.0	
100	256QAM	1	1	15.53			17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.44	15.50	15.47	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.48	15.47	15.53	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.41	15.44	15.47	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.56	15.43	15.47	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.44	15.57	15.56	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.20	15.50	15.40	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.48	15.56	15.55	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.46	15.44	15.44	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.54	15.53	15.51	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.51	15.52	15.47	17.0	0.0	

Par270 n78_Ant 8_HPUE									
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	17.52	3750				
100	PI2 BPSK	1	137	17.55			19.0	0.0	
100	PI2 BPSK	1	271	17.56					
100	PI2 BPSK	135	0	17.53			19.0	0.0	
100	PI2 BPSK	135	69	17.42			19.0	0.0	
100	PI2 BPSK	135	138	17.51			19.0	0.0	
100	PI2 BPSK	270	0	17.38					
100	QPSK	1	1	17.28					
100	QPSK	1	137	17.41			19.0	0.0	
100	QPSK	1	271	17.40					
100	QPSK	135	0	17.44					
100	QPSK	135	69	17.58			19.0	0.0	
100	QPSK	135	138	17.35			19.0	0.0	
100	QPSK	270	0	17.51			19.0	0.0	
100	16QAM	1	1	17.53			19.0	0.0	
100	64QAM	1	1	17.53			19.0	0.0	
100	256QAM	1	1	16.81			18.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.45	17.50	17.44	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.57	17.44	17.38	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.40	17.45	17.36	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.49	17.40	17.39	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.45	17.53	17.52	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.40	17.48	17.41	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.57	17.57	17.35	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.43	17.40	17.36	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.39	17.47	17.50	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.57	17.40	17.52	19.0	0.0	



Part27Q n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	14.82	14.89	14.82	0.0
100	PI2 BPSK	1	137	14.89	14.89	14.89	16.0
100	PI2 BPSK	1	271	14.86	14.86	14.86	0.0
100	PI2 BPSK	135	0	14.89	14.89	14.89	16.0
100	PI2 BPSK	135	69	14.89	14.89	14.89	16.0
100	PI2 BPSK	135	138	14.82	14.82	14.82	16.0
100	PI2 BPSK	270	0	14.84	14.84	14.84	16.0
100	QPSK	1	1	14.82	14.82	14.82	0.0
100	QPSK	1	137	14.89	14.89	14.89	16.0
100	QPSK	1	271	14.85	14.85	14.85	0.0
100	QPSK	135	0	14.84	14.84	14.84	16.0
100	QPSK	135	69	14.89	14.89	14.89	16.0
100	QPSK	135	138	14.75	14.75	14.75	16.0
100	QPSK	270	0	14.80	14.80	14.80	16.0
100	16QAM	1	1	14.80	14.80	14.80	0.0
100	64QAM	1	1	14.89	14.89	14.89	16.0
100	256QAM	1	1	14.84	14.84	14.84	16.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.86	14.86	14.86	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.88	14.77	14.87	16.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.87	14.81	14.91	16.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.81	14.82	14.80	16.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.87	14.80	14.83	16.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.85	14.83	14.84	16.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.83	14.80	14.88	16.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.89	14.83	14.81	16.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.90	14.86	14.83	16.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.81	14.83	14.87	16.0

Part27Q n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	16.80	16.80	16.80	0.0
100	PI2 BPSK	1	137	16.82	16.82	16.82	18.0
100	PI2 BPSK	1	271	16.83	16.83	16.83	0.0
100	PI2 BPSK	135	0	16.84	16.84	16.84	18.0
100	PI2 BPSK	135	69	16.83	16.83	16.83	18.0
100	PI2 BPSK	135	138	16.83	16.83	16.83	18.0
100	PI2 BPSK	270	0	16.89	16.89	16.89	18.0
100	QPSK	1	1	16.85	16.85	16.85	0.0
100	QPSK	1	137	16.81	16.81	16.81	18.0
100	QPSK	1	271	16.85	16.85	16.85	0.0
100	QPSK	135	0	16.82	16.82	16.82	18.0
100	QPSK	135	69	16.89	16.89	16.89	18.0
100	QPSK	135	138	16.82	16.82	16.82	18.0
100	QPSK	270	0	16.84	16.84	16.84	18.0
100	16QAM	1	1	16.88	16.88	16.88	18.0
100	64QAM	1	1	16.99	16.99	16.99	18.0
100	256QAM	1	1	16.94	16.94	16.94	17.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	16.85	16.85	16.85	18.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	16.92	16.86	16.92	18.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	16.80	16.86	16.86	18.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	16.83	16.80	16.88	18.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	16.83	16.80	16.81	18.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.85	16.80	16.89	18.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.87	16.82	16.87	18.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	16.99	16.93	16.92	18.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	16.93	16.87	16.89	18.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	16.82	16.87	16.87	18.0



Par270 n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	17.70			
100	PI2 BPSK	1	137	17.71			19.0
100	PI2 BPSK	1	271	17.77			
100	PI2 BPSK	135	0	17.72			19.0
100	PI2 BPSK	135	69	17.63			19.0
100	PI2 BPSK	135	138	17.77			19.0
100	PI2 BPSK	270	0	17.63			19.0
100	QPSK	1	1	17.76			19.0
100	QPSK	1	137	17.65			19.0
100	QPSK	1	271	17.63			19.0
100	QPSK	135	0	17.85			19.0
100	QPSK	135	69	17.76			19.0
100	QPSK	135	138	17.65			19.0
100	QPSK	270	0	17.68			19.0
100	16QAM	1	1	17.72			19.0
100	64QAM	1	1	17.75			19.0
100	256QAM	1	1	17.63			19.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.71	17.71	17.65	19.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.66	17.69	17.65	19.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.75	17.75	17.70	19.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.65	17.64	17.69	19.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.63	17.74	17.74	19.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.68	17.71	17.74	19.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.77	17.69	17.72	19.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.77	17.64	17.76	19.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.71	17.70	17.64	19.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.70	17.66	17.69	19.0

Par270 n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	19.69			
100	PI2 BPSK	1	137	19.72			21.0
100	PI2 BPSK	1	271	19.66			
100	PI2 BPSK	135	0	19.67			21.0
100	PI2 BPSK	135	69	19.62			21.0
100	PI2 BPSK	135	138	19.69			21.0
100	PI2 BPSK	270	0	19.69			21.0
100	QPSK	1	1	19.73			21.0
100	QPSK	1	137	19.59			21.0
100	QPSK	1	271	19.67			21.0
100	QPSK	135	0	19.60			21.0
100	QPSK	135	69	19.72			21.0
100	QPSK	135	138	19.65			21.0
100	QPSK	270	0	19.70			21.0
100	16QAM	1	1	19.70			21.0
100	64QAM	1	1	19.63			21.0
100	256QAM	1	1	19.05			20.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	19.62	19.67	19.63	21.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.59	19.64	19.63	21.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.71	19.69	19.61	21.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	19.71	19.65	19.64	21.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.59	19.72	19.65	21.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.61	19.72	19.61	21.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.70	19.70	19.67	21.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.71	19.59	19.60	21.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.71	19.68	19.58	21.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.60	19.71	19.69	21.0



Part27Q n78_Ant 10									
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)									
100	PI2 BPSK	1	1	17.79	17.77	17.75			
100	PI2 BPSK	1	137	17.77	17.77	17.77	19.0	0.0	
100	PI2 BPSK	1	271	17.81	17.81	17.81			
100	PI2 BPSK	135	0	17.77	17.77	17.77	19.0	0.0	
100	PI2 BPSK	135	69	17.82	17.82	17.82	19.0	0.0	
100	PI2 BPSK	135	138	17.77	17.77	17.77	19.0	0.0	
100	PI2 BPSK	270	0	17.82	17.82	17.82			
100	QPSK	1	1	17.84	17.84	17.84			
100	QPSK	1	137	17.78	17.78	17.78	19.0	0.0	
100	QPSK	1	271	17.75	17.75	17.75			
100	QPSK	135	0	17.78	17.78	17.78			
100	QPSK	135	69	17.83	17.83	17.83	19.0	0.0	
100	QPSK	135	138	17.82	17.82	17.82	19.0	0.0	
100	QPSK	270	0	17.71	17.71	17.71	19.0	0.0	
100	16QAM	1	1	17.77	17.77	17.77	19.0	0.0	
100	64QAM	1	1	17.72	17.72	17.72	19.0	0.0	
100	256QAM	1	1	17.78	17.78	17.78	19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.80	17.76	17.81	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.78	17.76	17.77	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.82	17.83	17.80	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.72	17.76	17.81	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.79	17.82	17.72	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.77	17.73	17.74	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.82	17.70	17.71	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.78	17.76	17.83	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.78	17.77	17.72	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.70	17.69	17.73	19.0	0.0	

Part27Q n78_Ant 10_HPUE									
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)									
100	PI2 BPSK	1	1	19.63	19.63	19.63			
100	PI2 BPSK	1	137	19.76	19.76	19.76	21.0	0.0	
100	PI2 BPSK	1	271	19.64	19.64	19.64			
100	PI2 BPSK	135	0	19.65	19.65	19.65	21.0	0.0	
100	PI2 BPSK	135	69	19.68	19.68	19.68	21.0	0.0	
100	PI2 BPSK	135	138	19.64	19.64	19.64	21.0	0.0	
100	PI2 BPSK	270	0	19.64	19.64	19.64			
100	QPSK	1	1	19.77	19.77	19.77			
100	QPSK	1	137	19.75	19.75	19.75	21.0	0.0	
100	QPSK	1	271	19.68	19.68	19.68			
100	QPSK	135	0	19.72	19.72	19.72			
100	QPSK	135	69	19.78	19.78	19.78	21.0	0.0	
100	QPSK	135	138	19.68	19.68	19.68	21.0	0.0	
100	QPSK	270	0	19.63	19.63	19.63	21.0	0.0	
100	16QAM	1	1	19.73	19.73	19.73	21.0	0.0	
100	64QAM	1	1	19.68	19.68	19.68	21.0	0.0	
100	256QAM	1	1	19.28	19.28	19.28	20.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.60	19.64	19.71	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.76	19.62	19.63	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.64	19.64	19.71	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.76	19.75	19.65	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.72	19.72	19.73	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.65	19.67	19.62	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.63	19.72	19.76	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.63	19.66	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.70	19.70	19.68	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.70	19.64	19.73	21.0	0.0	



Full&Default Power Mode

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)				1860	1860	1860			
20	Pi/2 BPSK	1	1	22.76	22.80	22.74	24.0	0.0	
20	Pi/2 BPSK	1	53	22.74	22.75	22.74			
20	Pi/2 BPSK	1	104	22.74	22.78	22.72			
20	Pi/2 BPSK	50	0	22.76	22.81	22.74	24.0	0.0	
20	Pi/2 BPSK	50	28	22.68	22.76	22.84	24.0	0.0	
20	Pi/2 BPSK	50	56	22.75	22.81	22.71			
20	Pi/2 BPSK	100	0	22.74	22.80	22.71	24.0	0.0	
20	QPSK	1	1	22.80	22.88	22.86			
20	QPSK	1	53	22.79	22.87	22.81	24.0	0.0	
20	QPSK	1	104	22.78	22.84	22.83			
20	QPSK	50	0	22.73	22.83	22.86	24.0	0.0	
20	QPSK	50	28	22.76	22.86	22.76	24.0	0.0	
20	QPSK	50	56	22.76	22.84	22.69			
20	QPSK	100	0	22.69	22.75	22.85	24.0	0.0	
20	16QAM	1	1	22.77	22.85	22.73	24.0	0.0	
20	64QAM	1	1	21.77	22.08	22.02	23.0	1.0	
20	256QAM	1	1	19.65	20.00	19.92	21.0	3.0	
Channel				371600	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1857.3	1860	1862.5	(dBm)	(dB)	
15	QPSK	1	1	22.72	22.80	22.74	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1865	1860	1865	(dBm)	(dB)	
10	QPSK	1	1	22.78	22.79	22.72	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit	MPR	
Frequency (MHz)				1862.5	1860	1867.5	(dBm)	(dB)	
5	QPSK	1	1	22.76	22.81	22.71	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)				1860	1860	1860			
20	Pi/2 BPSK	1	1	22.95	22.96	22.92	24.0	0.0	
20	Pi/2 BPSK	1	53	22.84	22.88	22.74			
20	Pi/2 BPSK	1	104	22.83	22.85	22.81			
20	Pi/2 BPSK	50	0	22.92	22.83	22.97	23.5	0.5	
20	Pi/2 BPSK	50	28	22.76	22.80	22.79	24.0	0.0	
20	Pi/2 BPSK	50	56	22.19	22.28	22.15			
20	Pi/2 BPSK	100	0	22.25	22.30	22.18	23.5	0.5	
20	QPSK	1	1	22.90	22.97	22.90			
20	QPSK	1	53	22.84	22.90	22.85	24.0	0.0	
20	QPSK	1	104	22.71	22.83	22.72			
20	QPSK	50	0	21.83	21.85	21.81	23.0	1.0	
20	QPSK	50	28	22.76	22.76	22.71	24.0	0.0	
20	QPSK	50	56	21.83	21.88	21.84			
20	QPSK	100	0	21.82	21.87	21.86	23.0	1.0	
20	16QAM	1	1	21.90	22.02	21.89	23.0	1.0	
20	64QAM	1	1	20.44	20.50	20.51	21.5	2.5	
20	256QAM	1	1	18.40	18.50	18.38	19.5	4.5	
Channel				371600	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1857.3	1860	1862.5	(dBm)	(dB)	
15	QPSK	1	1	22.76	22.86	22.85	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1865	1860	1865	(dBm)	(dB)	
10	QPSK	1	1	22.80	22.84	22.80	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit	MPR	
Frequency (MHz)				1862.5	1860	1867.5	(dBm)	(dB)	
5	QPSK	1	1	22.90	22.92	22.77	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				166800	167300	167800			
Frequency (MHz)				834	836.5	837			
20	Pi/2 BPSK	1	1	22.88	22.86	22.76	24.0	0.0	
20	Pi/2 BPSK	1	53	22.88	22.84	22.79			
20	Pi/2 BPSK	1	104	22.81	22.90	22.79			
20	Pi/2 BPSK	50	0	22.85	22.92	22.79	24.0	0.0	
20	Pi/2 BPSK	50	28	22.93	22.86	22.85	24.0	0.0	
20	Pi/2 BPSK	50	56	22.90	22.86	22.78			
20	Pi/2 BPSK	100	0	22.78	22.81	22.72	24.0	0.0	
20	QPSK	1	1	22.92	22.97	22.86			
20	QPSK	1	53	22.81	22.78	22.73	24.0	0.0	
20	QPSK	1	104	22.83	22.79	22.72			
20	QPSK	50	0	22.78	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.76	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.68			
20	QPSK	100	0	22.76	22.80	22.68	24.0	0.0	
20	16QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	64QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				166300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	22.70	22.78	22.75	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit	MPR	
Frequency (MHz)				826	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit	MPR	
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	22.84	22.83	22.78	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				166300	167300	167900			
Frequency (MHz)				824	836.5	848			
20	PI2 BPSK	1	1	22.70	22.72	22.63	24.0	0.0	
20	PI2 BPSK	1	104	22.70	22.73	22.63			
20	PI2 BPSK	50	0	22.60	22.71	22.52	24.0	0.0	
20	PI2 BPSK	50	20	22.67	22.75	22.60	24.0	0.0	
20	PI2 BPSK	50	56	22.56	22.71	22.58	24.0	0.0	
20	PI2 BPSK	100	0	22.58	22.64	22.55			
20	QPSK	1	1	22.73	22.78	22.68	24.0	0.0	
20	QPSK	1	53	22.61	22.66	22.50			
20	QPSK	1	104	22.67	22.68	22.50			
20	QPSK	50	0	22.61	22.68	22.52	24.0	0.0	
20	QPSK	50	28	22.65	22.72	22.57	24.0	0.0	
20	QPSK	50	56	22.61	22.67	22.50	24.0	0.0	
20	QPSK	100	0	22.66	22.64	22.49			
20	16QAM	1	1	22.63	22.61	22.65	24.0	0.0	
20	16QAM	1	1	21.34	21.45	21.37	22.5	1.5	
20	256QAM	1	1	19.33	19.38	19.28	20.5	3.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	22.66	22.73	22.55	24.0	0.0	
Channel				166800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.63	22.73	22.50	24.0	0.0	
Channel				167300	167300	167300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	836.5	836.5			
5	QPSK	1	1	22.63	22.72	22.49	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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	22.86	23.03	22.97	24.0	0.0	
40	PI2 BPSK	1	108	22.86	23.02	22.89			
40	PI2 BPSK	1	214	22.73	22.97	22.91			
40	PI2 BPSK	108	0	22.52	22.55	22.54	23.5	0.5	
40	PI2 BPSK	108	54	22.61	22.64	22.71	24.0	0.0	
40	PI2 BPSK	108	108	22.14	22.45	22.42	23.5	0.5	
40	PI2 BPSK	216	0	22.31	22.52	22.46			
40	QPSK	1	1	22.98	23.06	22.98	24.0	0.0	
40	QPSK	1	108	22.74	23.00	22.97			
40	QPSK	1	214	22.74	22.98	22.85			
40	QPSK	108	0	21.81	22.05	22.03	23.0	1.0	
40	QPSK	108	54	21.95	22.83	22.81	24.0	0.0	
40	QPSK	108	108	21.72	21.96	21.88	23.0	1.0	
40	QPSK	216	0	21.83	22.06	22.01			
40	16QAM	1	1	21.87	22.10	21.85	23.0	1.0	
40	16QAM	1	1	20.52	20.77	20.68	21.5	2.5	
40	256QAM	1	1	18.62	18.85	18.76	19.5	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516	2535	2553			
30	QPSK	1	1	22.71	22.99	22.90	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	22.73	23.02	23.03	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	22.67	22.99	23.01	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.65	23.09	23.02	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2535	2566			
10	QPSK	1	1	22.71	23.03	22.93	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2571.5			
5	QPSK	1	1	22.67	23.00	23.04	24.0	0.0	

n7_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				503000	507000	510000			
Frequency (MHz)				2516	2535	2553			
40	PI2 BPSK	1	1	23.03	23.05	23.01	24.0	0.0	
40	PI2 BPSK	1	108	23.00	23.02	22.98			
40	PI2 BPSK	1	214	23.02	23.04	22.92			
40	PI2 BPSK	108	0	22.89	22.96	22.98	24.0	0.0	
40	PI2 BPSK	108	54	22.98	23.02	22.99	24.0	0.0	
40	PI2 BPSK	108	108	22.92	22.92	22.92	24.0	0.0	
40	PI2 BPSK	216	0	22.90	23.01	22.88			
40	QPSK	1	1	23.01	23.07	23.02	24.0	0.0	
40	QPSK	1	108	22.95	22.97	22.88			
40	QPSK	1	214	22.93	22.93	22.96			
40	QPSK	108	0	22.87	22.94	22.83	24.0	0.0	
40	QPSK	108	54	22.91	22.98	22.95	24.0	0.0	
40	QPSK	108	108	22.87	22.93	22.94	24.0	0.0	
40	QPSK	216	0	22.86	22.93	22.89			
40	16QAM	1	1	22.92	22.98	22.98	24.0	0.0	
40	16QAM	1	1	21.79	21.89	21.78	23.0	1.0	
40	256QAM	1	1	20.38	20.46	20.43	21.0	3.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516	2535	2553			
30	QPSK	1	1	22.92	22.96	22.94	24.0	0.0	
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	22.87	22.95	22.98	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	1	22.85	22.94	22.98	24.0	0.0	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	22.91	22.94	22.96	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506	2535	2566			
10	QPSK	1	1	22.94	22.98	22.93	24.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2571.5			
5	QPSK	1	1	22.92	22.95	22.97	24.0	0.0	



n12_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				141300	141500	141700			
Frequency (MHz)				707.5	707.5	707.5			
15	PI2 BPSK	1	1	22.89	22.90	22.87	24.0	0.0	
15	PI2 BPSK	1	40	22.87	22.83	22.77	24.0	0.0	
15	PI2 BPSK	1	77	22.79	22.87	22.84			
15	PI2 BPSK	36	0	22.80	22.80	22.80	24.0	0.0	
15	PI2 BPSK	36	22	22.81	22.86	22.79	24.0	0.0	
15	PI2 BPSK	36	43	22.71	22.81	22.75	24.0	0.0	
15	PI2 BPSK	75	0	22.74	22.85	22.71	24.0	0.0	
15	QPSK	1	1	22.76	22.82	22.82	24.0	0.0	
15	QPSK	1	40	22.71	22.85	22.72	24.0	0.0	
15	QPSK	1	77	22.74	22.77	22.70			
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0	
15	QPSK	36	22	22.77	22.83	22.73	24.0	0.0	
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0	
15	QPSK	75	0	22.76	22.77	22.76	24.0	0.0	
15	16QAM	1	1	22.79	22.83	22.76	24.0	0.0	
15	16QAM	1	1	21.67	21.80	21.79	22.5	1.5	
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5	
Channel				140800	141500	142000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711	(dBm)	(dB)	
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)	
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0	

n12_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				141300	141500	141700			
Frequency (MHz)				707.5	707.5	707.5			
15	PI2 BPSK	1	1	23.31	23.38	23.34	24.0	0.0	
15	PI2 BPSK	1	40	23.23	23.31	23.23	24.0	0.0	
15	PI2 BPSK	1	77	23.26	23.33	23.31			
15	PI2 BPSK	36	0	23.20	23.30	23.23	24.0	0.0	
15	PI2 BPSK	36	22	23.22	23.33	23.25	24.0	0.0	
15	PI2 BPSK	36	43	23.11	23.24	23.17	24.0	0.0	
15	PI2 BPSK	75	0	23.21	23.30	23.17	24.0	0.0	
15	QPSK	1	1	23.24	23.37	23.30	24.0	0.0	
15	QPSK	1	40	23.15	23.22	23.19	24.0	0.0	
15	QPSK	1	77	23.11	23.27	23.18			
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0	
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0	
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0	
15	QPSK	75	0	23.12	23.20	23.23	24.0	0.0	
15	16QAM	1	1	23.19	23.32	23.15	24.0	0.0	
15	16QAM	1	1	22.13	22.19	22.17	22.5	1.5	
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5	
Channel				140800	141500	142000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				704	707.5	711	(dBm)	(dB)	
10	QPSK	1	1	23.16	23.32	23.23	24.0	0.0	
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				701.5	707.5	713.5	(dBm)	(dB)	
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0	

n14_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				158100	158900	159700			
Frequency (MHz)				714	714	714			
10	PI2 BPSK	1	1	22.92	22.92	22.92	24.0	0.0	
10	PI2 BPSK	1	26	22.91	22.91	22.91	24.0	0.0	
10	PI2 BPSK	1	50	22.89	22.89	22.89	24.0	0.0	
10	PI2 BPSK	25	0	22.82	22.82	22.82	24.0	0.0	
10	PI2 BPSK	25	14	22.91	22.91	22.91	24.0	0.0	
10	PI2 BPSK	25	27	22.80	22.80	22.80	24.0	0.0	
10	PI2 BPSK	50	0	22.80	22.80	22.80	24.0	0.0	
10	QPSK	1	1	22.83	22.83	22.83	24.0	0.0	
10	QPSK	1	26	22.84	22.84	22.84	24.0	0.0	
10	QPSK	1	50	22.89	22.89	22.89	24.0	0.0	
10	QPSK	25	0	22.83	22.83	22.83	24.0	0.0	
10	QPSK	25	14	22.85	22.85	22.85	24.0	0.0	
10	QPSK	25	27	22.80	22.80	22.80	24.0	0.0	
10	QPSK	50	0	22.84	22.84	22.84	24.0	0.0	
10	16QAM	1	1	22.89	22.89	22.89	24.0	0.0	
10	16QAM	1	1	22.22	22.22	22.22	23.0	1.0	
10	256QAM	1	1	20.05	20.05	20.05	21.0	3.0	
Channel				158100	158900	159700	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				714	714	714	(dBm)	(dB)	
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0	



n14_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)									
10	PI2 BPSK	1	1	22.60	22.60	22.60	24.0	0.0	
10	PI2 BPSK	1	26	22.54	22.54	22.54	24.0	0.0	
10	PI2 BPSK	1	50	22.54	22.54	22.54	24.0	0.0	
10	PI2 BPSK	25	0	22.51	22.51	22.51	24.0	0.0	
10	PI2 BPSK	25	14	22.53	22.53	22.53	24.0	0.0	
10	PI2 BPSK	25	27	22.49	22.49	22.49	24.0	0.0	
10	PI2 BPSK	50	0	22.51	22.51	22.51	24.0	0.0	
10	QPSK	1	1	22.62	22.62	22.62	24.0	0.0	
10	QPSK	1	26	22.50	22.50	22.50	24.0	0.0	
10	QPSK	1	50	22.55	22.55	22.55	24.0	0.0	
10	QPSK	25	0	22.49	22.49	22.49	24.0	0.0	
10	QPSK	25	14	22.57	22.57	22.57	24.0	0.0	
10	QPSK	25	27	22.50	22.50	22.50	24.0	0.0	
10	QPSK	50	0	22.54	22.54	22.54	24.0	0.0	
10	16QAM	1	1	22.49	22.49	22.49	24.0	0.0	
10	16QAM	1	1	22.00	22.00	22.00	23.0	1.0	
10	256QAM	1	1	19.89	19.89	19.89	21.0	3.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.52	22.51	22.53	24.0	0.0	

n25_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	22.87	22.90	22.87	24.0	0.0	
40	PI2 BPSK	1	108	22.82	22.80	22.83	24.0	0.0	
40	PI2 BPSK	1	214	22.86	22.82	22.83	24.0	0.0	
40	PI2 BPSK	108	0	22.74	22.86	22.69	24.0	0.0	
40	PI2 BPSK	108	54	22.76	22.89	22.77	24.0	0.0	
40	PI2 BPSK	108	108	22.75	22.83	22.87	24.0	0.0	
40	PI2 BPSK	216	0	22.85	22.78	22.74	24.0	0.0	
40	QPSK	1	1	22.92	22.92	22.92	24.0	0.0	
40	QPSK	1	108	22.75	22.84	22.69	24.0	0.0	
40	QPSK	1	214	22.71	22.78	22.72	24.0	0.0	
40	QPSK	108	0	22.69	22.82	22.67	24.0	0.0	
40	QPSK	108	54	22.73	22.83	22.73	24.0	0.0	
40	QPSK	108	108	22.70	22.78	22.72	24.0	0.0	
40	QPSK	216	0	22.73	22.80	22.73	24.0	0.0	
40	16QAM	1	1	22.72	22.82	22.66	24.0	0.0	
40	16QAM	1	1	21.58	21.65	21.59	22.5	1.5	
40	256QAM	1	1	19.67	19.68	19.63	20.5	3.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	22.69	22.60	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.70	22.70	22.68	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.69	22.85	22.73	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.73	22.84	22.72	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.73	22.82	22.76	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.69	22.88	22.73	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.75	22.85	22.71	24.0	0.0	

n25_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	22.15	22.19	22.12	24.0	0.0	
40	PI2 BPSK	1	108	22.05	22.10	22.05	24.0	0.0	
40	PI2 BPSK	1	214	22.12	22.15	22.06	24.0	0.0	
40	PI2 BPSK	108	0	21.95	21.67	21.55	23.5	0.5	
40	PI2 BPSK	108	54	22.01	22.03	22.09	24.0	0.0	
40	PI2 BPSK	108	108	21.61	21.70	21.67	23.5	0.5	
40	PI2 BPSK	216	0	21.67	21.72	21.67	23.5	0.5	
40	QPSK	1	1	22.12	22.22	22.08	24.0	0.0	
40	QPSK	1	108	22.07	22.08	22.03	24.0	0.0	
40	QPSK	1	214	22.05	22.10	22.01	24.0	0.0	
40	QPSK	108	0	21.11	21.10	21.06	23.0	1.0	
40	QPSK	108	54	22.05	22.11	22.03	24.0	0.0	
40	QPSK	108	108	21.06	21.15	21.12	23.0	1.0	
40	QPSK	216	0	21.04	21.13	21.10	23.0	1.0	
40	16QAM	1	1	21.27	21.34	21.19	23.0	1.0	
40	16QAM	1	1	19.82	19.85	19.84	21.5	2.5	
40	256QAM	1	1	17.75	17.89	17.74	19.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	21.99	22.07	22.01	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.02	22.14	22.01	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.07	22.07	22.03	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.10	22.17	22.03	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.09	22.06	22.01	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.08	22.05	22.02	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.04	22.18	21.94	24.0	0.0	



n26_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				164300	166300	167800			
Frequency (MHz)				824	831.5	838			
20	PI2 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	PI2 BPSK	1	63	22.88	22.83	22.87	24.0	0.0	
20	PI2 BPSK	1	104	22.85	22.79	22.88	24.0	0.0	
20	PI2 BPSK	50	0	22.85	22.85	22.85	24.0	0.0	
20	PI2 BPSK	50	23	22.92	22.90	22.94	24.0	0.0	
20	PI2 BPSK	50	56	22.87	22.88	22.86	24.0	0.0	
20	PI2 BPSK	100	0	22.88	22.89	22.91	24.0	0.0	
20	QPSK	1	1	22.96	22.98	22.92	24.0	0.0	
20	QPSK	1	63	22.90	22.81	22.86	24.0	0.0	
20	QPSK	1	104	22.90	22.88	22.83	24.0	0.0	
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	23	22.87	22.85	22.88	24.0	0.0	
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.86	22.79	22.83	24.0	0.0	
20	16QAM	1	1	22.86	22.85	22.85	24.0	0.0	
20	16QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.5	831.5	831.5	24.0	0.0	
15	QPSK	1	1	22.85	22.85	22.91	24.0	0.0	
Channel				163900	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844	24.0	0.0	
10	QPSK	1	1	22.86	22.79	22.81	24.0	0.0	
Channel				163300	166300	167000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0	
5	QPSK	1	1	22.92	22.86	22.86	24.0	0.0	

n26_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				164300	166300	167800			
Frequency (MHz)				824	831.5	838			
20	PI2 BPSK	1	1	22.85	22.85	22.87	24.0	0.0	
20	PI2 BPSK	1	63	22.88	22.78	22.80	24.0	0.0	
20	PI2 BPSK	1	104	22.90	22.78	22.81	24.0	0.0	
20	PI2 BPSK	50	0	22.89	22.87	22.85	24.0	0.0	
20	PI2 BPSK	50	23	22.80	22.85	22.82	24.0	0.0	
20	PI2 BPSK	50	56	22.85	22.80	22.81	24.0	0.0	
20	PI2 BPSK	100	0	22.80	22.82	22.85	24.0	0.0	
20	QPSK	1	1	22.96	22.91	22.98	24.0	0.0	
20	QPSK	1	63	22.95	22.92	22.92	24.0	0.0	
20	QPSK	1	104	22.94	22.87	22.93	24.0	0.0	
20	QPSK	50	0	22.85	22.81	22.88	24.0	0.0	
20	QPSK	50	23	22.86	22.85	22.85	24.0	0.0	
20	QPSK	50	56	22.83	22.87	22.81	24.0	0.0	
20	QPSK	100	0	22.85	22.84	22.86	24.0	0.0	
20	16QAM	1	1	22.83	22.87	22.80	24.0	0.0	
20	16QAM	1	1	21.56	21.56	21.63	23.0	1.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0	
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.5	831.5	831.5	24.0	0.0	
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0	
Channel				163900	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844	24.0	0.0	
10	QPSK	1	1	22.86	22.86	22.81	24.0	0.0	
Channel				163300	166300	167000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0	
5	QPSK	1	1	22.85	22.87	22.86	24.0	0.0	



n30_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				461500					
Frequency (MHz)									
10	PI2 BPSK	1	1	22.02	22.02		24.0	0.0	
10	PI2 BPSK	1	26	22.00	22.00				
10	PI2 BPSK	1	50	21.94	21.94				
10	PI2 BPSK	25	0	21.40	21.40	23.0	0.0		
10	PI2 BPSK	25	14	21.88	21.88		24.0	0.0	
10	PI2 BPSK	25	27	21.39	21.39				
10	PI2 BPSK	50	0	21.42	21.42		23.5	0.5	
10	QPSK	1	1	22.06	22.06				
10	QPSK	1	26	22.03	22.03		24.0	0.0	
10	QPSK	1	50	21.98	21.98				
10	QPSK	25	0	20.98	20.98	23.0	1.0		
10	QPSK	25	14	22.04	22.04		24.0	0.0	
10	QPSK	25	27	20.94	20.94				
10	QPSK	50	0	21.03	21.03		23.0	1.0	
10	16QAM	1	1	21.18	21.18		23.0	1.0	
10	64QAM	1	1	19.75	19.75		21.5	2.5	
10	256QAM	1	1	17.81	17.81		19.5	4.5	
Channel				461500		462000		Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)									
5	QPSK	1	1	21.41	21.85	21.51	24.0	0.0	

n30_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				461500					
Frequency (MHz)									
10	PI2 BPSK	1	1	23.02	23.02		24.0	0.0	
10	PI2 BPSK	1	26	23.00	23.00				
10	PI2 BPSK	1	50	22.99	22.99				
10	PI2 BPSK	25	0	22.96	22.96	24.0	0.0		
10	PI2 BPSK	25	14	23.01	23.01		24.0	0.0	
10	PI2 BPSK	25	27	22.97	22.97				
10	PI2 BPSK	50	0	22.97	22.97		24.0	0.0	
10	QPSK	1	1	23.03	23.03				
10	QPSK	1	26	22.94	22.94		24.0	0.0	
10	QPSK	1	50	22.94	22.94				
10	QPSK	25	0	22.97	22.97	24.0	0.0		
10	QPSK	25	14	23.06	23.06		24.0	0.0	
10	QPSK	25	27	22.92	22.92				
10	QPSK	50	0	22.93	22.93		24.0	0.0	
10	16QAM	1	1	22.91	22.91		24.0	0.0	
10	64QAM	1	1	22.44	22.44		23.0	1.0	
10	256QAM	1	1	20.25	20.25		21.0	3.0	
Channel				461500		462000		Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)									
5	QPSK	1	1	22.97	22.96	22.98	24.0	0.0	



n66_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				346000	349000	352000				
Frequency (MHz)				1725	1745	1765				
40	PI2 BPSK	1	1	22.91	23.01	22.98			24.0	0.0
40	PI2 BPSK	1	108	22.98	22.95	22.89			24.0	0.0
40	PI2 BPSK	1	214	22.99	23.00	22.92			24.0	0.0
40	PI2 BPSK	108	0	22.89	22.94	22.95			24.0	0.0
40	PI2 BPSK	108	54	23.00	23.04	22.99			24.0	0.0
40	PI2 BPSK	108	108	22.94	22.94	22.80			24.0	0.0
40	PI2 BPSK	216	0	22.89	22.97	22.96			24.0	0.0
40	QPSK	1	1	23.08	23.10	23.01			24.0	0.0
40	QPSK	1	214	22.99	22.95	22.81			24.0	0.0
40	QPSK	108	0	22.89	22.91	22.89			24.0	0.0
40	QPSK	108	54	22.99	22.98	22.94			24.0	0.0
40	QPSK	108	108	22.91	22.98	22.90			24.0	0.0
40	QPSK	216	0	22.92	23.01	22.94			24.0	0.0
40	16QAM	1	1	22.80	22.89	22.97			24.0	0.0
40	16QAM	1	1	22.12	22.25	22.17			23.0	1.0
40	256QAM	1	1	20.17	20.23	20.22			21.0	3.0
Channel				345000	349000	352000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1725.5	1745	1765.5	(dB)	(dB)		
35	QPSK	1	1	22.94	22.97	22.96			24.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)		
30	QPSK	1	1	22.82	22.83	22.82			24.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)		
25	QPSK	1	1	22.82	23.02	22.92			24.0	0.0
Channel				343000	349000	350000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)		
20	QPSK	1	1	22.99	22.93	22.90			24.0	0.0
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)		
15	QPSK	1	1	22.96	22.94	22.89			24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
10	QPSK	1	1	22.93	22.89	22.90			24.0	0.0
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
5	QPSK	1	1	22.90	23.01	22.93			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				346000	349000	352000				
Frequency (MHz)				1725	1745	1765				
40	PI2 BPSK	1	1	23.29	23.32	23.30			24.0	0.0
40	PI2 BPSK	1	108	23.18	23.28	23.13			24.0	0.0
40	PI2 BPSK	1	214	23.27	23.33	23.29			24.0	0.0
40	PI2 BPSK	108	0	22.82	22.75	22.69			23.5	0.5
40	PI2 BPSK	108	54	23.12	23.23	23.21			24.0	0.0
40	PI2 BPSK	108	108	22.84	22.77	22.64			23.5	0.5
40	PI2 BPSK	216	0	22.74	22.80	22.70			24.0	0.0
40	QPSK	1	1	23.29	23.38	23.33			24.0	0.0
40	QPSK	1	108	23.23	23.25	23.15			24.0	0.0
40	QPSK	1	214	23.18	23.30	23.26			24.0	0.0
40	QPSK	108	0	22.06	22.20	22.12			23.0	1.0
40	QPSK	108	54	23.23	23.29	23.23			24.0	0.0
40	QPSK	108	108	22.27	22.32	22.28			23.0	1.0
40	QPSK	216	0	22.32	22.33	22.19			23.0	1.0
40	16QAM	1	1	22.24	22.30	22.28			23.0	1.0
40	16QAM	1	1	20.79	20.80	20.80			21.5	2.5
40	256QAM	1	1	18.84	18.98	18.83			19.5	4.5
Channel				345000	349000	352000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)		
35	QPSK	1	1	23.12	23.31	23.25			24.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)		
30	QPSK	1	1	23.24	23.25	23.20			24.0	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)		
25	QPSK	1	1	23.24	23.24	23.20			24.0	0.0
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)		
20	QPSK	1	1	23.17	23.33	23.23			24.0	0.0
Channel				343000	349000	354000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)		
15	QPSK	1	1	23.12	23.21	23.24			24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
10	QPSK	1	1	23.11	23.27	23.15			24.0	0.0
Channel				342500	349000	355000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
5	QPSK	1	1	23.13	23.27	23.30			24.0	0.0

n70_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				340000	349000	349000				
Frequency (MHz)				1702.5						
15	PI2 BPSK	1	1	22.72					24.0	0.0
15	PI2 BPSK	1	46	22.70					24.0	0.0
15	PI2 BPSK	1	77	22.68					24.0	0.0
15	PI2 BPSK	36	0	22.64					24.0	0.0
15	PI2 BPSK	36	22	22.70					24.0	0.0
15	PI2 BPSK	36	43	22.62					24.0	0.0
15	PI2 BPSK	75	0	22.65					24.0	0.0
15	QPSK	1	1	22.77					24.0	0.0
15	QPSK	1	40	22.68					24.0	0.0
15	QPSK	1	77	22.61					24.0	0.0
15	QPSK	36	0	22.64					24.0	0.0
15	QPSK	36	22	22.67					24.0	0.0
15	QPSK	36	43	22.63					24.0	0.0
15	QPSK	75	0	22.63					24.0	0.0
15	16QAM	1	1	22.61					24.0	0.0
15	16QAM	1	1	22.52					23.5	0.5
15	256QAM	1	1	20.35					21.5	2.5
Channel				340000	349000	349000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1702	1702.5	1702	(dBm)	(dB)		
10	QPSK	1	1	22.59	22.61	22.67			24.0	0.0
Channel				335000	340000	341000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				1697.5	1702.5	1707.5	(dBm)	(dB)		
5	QPSK	1	1	22.67	22.67	22.63			24.0	0.0



n70_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				340900					
Frequency (MHz)				1702.5					
15	PI2 BPSK	1	1	23.40			24.0	0.0	
15	PI2 BPSK	1	40	23.35					
15	PI2 BPSK	1	77	23.15					
15	PI2 BPSK	36	0	22.70			23.5	0.5	
15	PI2 BPSK	36	22	23.24			24.0	0.0	
15	PI2 BPSK	36	43	22.68					
15	PI2 BPSK	75	0	22.65			23.5	0.5	
15	QPSK	1	1	23.41					
15	QPSK	1	40	23.38			24.0	0.0	
15	QPSK	1	77	23.20					
15	QPSK	36	0	22.20			23.0	1.0	
15	QPSK	36	22	23.21			24.0	0.0	
15	QPSK	36	43	22.18					
15	QPSK	75	0	22.12			23.0	1.0	
15	16QAM	1	1	22.50			23.0	1.0	
15	16QAM	1	1	20.95			21.5	2.5	
15	256QAM	1	1	18.98			19.5	4.5	
Channel				340000	340900	341000	Tune-up limit (dB)	MPR	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	23.31	23.31	23.37	24.0	0.0	
Channel				336500	340500	341500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	23.31	23.33	23.38	24.0	0.0	

n71_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				136600	136100	136000			
Frequency (MHz)				678	683.5	688			
30	PI2 BPSK	1	1	23.08	23.09	23.03	24.0	0.0	
30	PI2 BPSK	1	80	23.01	23.04	22.92			
30	PI2 BPSK	1	158	23.00	23.08	23.01			
30	PI2 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	PI2 BPSK	80	40	22.98	23.03	23.01	24.0	0.0	
30	PI2 BPSK	80	80	22.91	23.02	22.92			
30	PI2 BPSK	160	0	22.95	22.99	22.98	24.0	0.0	
30	QPSK	1	1	23.08	23.10	23.01			
30	QPSK	1	80	22.94	22.98	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.87			
30	QPSK	80	0	22.89	22.93	22.91	24.0	0.0	
30	QPSK	80	40	22.91	22.96	22.93	24.0	0.0	
30	QPSK	80	80	22.88	22.90	22.91			
30	QPSK	160	0	22.91	22.96	22.96	24.0	0.0	
30	16QAM	1	1	22.50	22.53	22.53	24.0	0.0	
30	16QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel				135100	136100	137100	Tune-up limit (dBm)	MPR	
Frequency (MHz)				675.5	683.5	691.5			
25	QPSK	1	1	22.93	22.97	22.98	24.0	0.0	
Channel				134600	136100	137600	Tune-up limit (dBm)	MPR	
Frequency (MHz)				673	680.5	688			
20	QPSK	1	1	22.90	23.02	22.86	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.80	22.89	22.82	24.0	0.0	
Channel				131600	136100	139100	Tune-up limit (dBm)	MPR	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.98	22.92	22.98	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR	
Frequency (MHz)				668.5	680.5	698.5			
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_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				136900	136100	136000			
Frequency (MHz)				678	683.5	688			
30	PI2 BPSK	1	1	23.08	23.13	23.13			
30	PI2 BPSK	1	80	23.15	23.16	23.10	24.0	0.0	
30	PI2 BPSK	1	158	23.18	23.24	23.20			
30	PI2 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	PI2 BPSK	80	40	23.18	23.25	23.09	24.0	0.0	
30	PI2 BPSK	80	80	23.08	23.10	23.17			
30	PI2 BPSK	160	0	23.15	23.19	23.18	24.0	0.0	
30	QPSK	1	1	23.23	23.28	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.18	23.11	23.09			
30	QPSK	80	0	23.08	23.09	23.11	24.0	0.0	
30	QPSK	80	40	23.11	23.19	23.17	24.0	0.0	
30	QPSK	80	80	23.11	23.11	23.14			
30	QPSK	160	0	23.08	23.10	23.09	24.0	0.0	
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0	
30	16QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel				135100	136100	137100	Tune-up limit (dBm)	MPR	
Frequency (MHz)				675.5	683.5	691.5			
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel				134600	136100	137600	Tune-up limit (dBm)	MPR	
Frequency (MHz)				673	680.5	688			
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel				131600	136100	139100	Tune-up limit (dBm)	MPR	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR	
Frequency (MHz)				668.5	680.5	698.5			
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_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									
				518004	518000	518996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	22.83	22.88	22.91			
40	PI2 BPSK	1	53	22.86	22.85	22.84	24.0	0.0	
40	PI2 BPSK	1	104	22.83	22.86	22.87			
40	PI2 BPSK	50	0	22.82	22.85	22.81	24.0	0.0	
40	PI2 BPSK	50	28	22.84	22.85	22.83	24.0	0.0	
40	PI2 BPSK	50	56	22.86	22.87	22.85	24.0	0.0	
40	PI2 BPSK	100	0	22.79	22.83	22.88	24.0	0.0	
40	QPSK	1	1	22.90	22.95	22.92			
40	QPSK	1	53	22.86	22.90	22.84	24.0	0.0	
40	QPSK	1	104	22.83	22.18	22.16			
40	QPSK	50	0	21.83	21.96	21.94			
40	QPSK	50	28	22.86	22.88	22.87	24.0	0.0	
40	QPSK	50	56	21.58	21.60	21.54			
40	QPSK	100	0	21.65	21.70	21.65	23.0	1.0	
40	16QAM	1	1	21.90	21.93	21.90	23.0	1.0	
40	16QAM	1	1	20.83	20.82	20.86	21.5	2.5	
40	256QAM	1	1	18.44	18.55	18.43	19.3	4.5	
Channel									
				517002	518000	509998	Tune-up limit	MPR	
Frequency (MHz)				2585.01	2595	2584.99	(dBm)	(dB)	
30	QPSK	1	1	22.87	22.81	22.83	24.0	0.0	
Channel									
				518000	518000	520000	Tune-up limit	MPR	
Frequency (MHz)				2580	2595	2610	(dBm)	(dB)	
20	QPSK	1	1	22.81	22.83	22.84	24.0	0.0	
Channel									
				515002	518000	520000	Tune-up limit	MPR	
Frequency (MHz)				2577.51	2595	2612.48	(dBm)	(dB)	
15	QPSK	1	1	22.86	22.82	22.83	24.0	0.0	
Channel									
				518004	518000	520996	Tune-up limit	MPR	
Frequency (MHz)				2578.02	2595	2614.98	(dBm)	(dB)	
10	QPSK	1	1	22.82	22.86	22.80	24.0	0.0	

n38_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									
				518004	518000	518996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	23.04	23.10	22.99			
40	PI2 BPSK	1	53	22.93	23.10	22.92	24.0	0.0	
40	PI2 BPSK	1	104	22.95	23.10	22.91			
40	PI2 BPSK	50	0	23.01	23.04	22.91	24.0	0.0	
40	PI2 BPSK	50	28	23.06	23.12	22.97	24.0	0.0	
40	PI2 BPSK	50	56	22.96	23.10	22.93	24.0	0.0	
40	PI2 BPSK	100	0	22.96	23.09	22.97	24.0	0.0	
40	QPSK	1	1	23.05	23.13	23.01			
40	QPSK	1	53	22.96	23.06	22.90	24.0	0.0	
40	QPSK	1	104	22.97	23.06	22.93			
40	QPSK	50	0	22.97	23.04	22.93			
40	QPSK	50	28	22.96	23.06	22.96	24.0	0.0	
40	QPSK	50	56	22.98	23.07	22.89			
40	QPSK	100	0	23.01	23.06	22.96	24.0	0.0	
40	16QAM	1	1	22.93	23.06	22.97	24.0	0.0	
40	16QAM	1	1	22.71	22.72	22.57	23.5	0.5	
40	256QAM	1	1	20.51	20.84	20.82	21.5	2.5	
Channel									
				517002	518000	509998	Tune-up limit	MPR	
Frequency (MHz)				2585.01	2595	2584.99	(dBm)	(dB)	
30	QPSK	1	1	23.02	23.05	22.95	24.0	0.0	
Channel									
				518000	518000	520000	Tune-up limit	MPR	
Frequency (MHz)				2580	2595	2610	(dBm)	(dB)	
20	QPSK	1	1	22.96	23.13	22.97	24.0	0.0	
Channel									
				515002	518000	520000	Tune-up limit	MPR	
Frequency (MHz)				2577.51	2595	2612.48	(dBm)	(dB)	
15	QPSK	1	1	22.95	23.04	22.94	24.0	0.0	
Channel									
				518004	518000	520996	Tune-up limit	MPR	
Frequency (MHz)				2578.02	2595	2614.98	(dBm)	(dB)	
10	QPSK	1	1	22.97	23.05	22.96	24.0	0.0	

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									
				506002	518998	528000			
Frequency (MHz)				2546.01	2592.99	2630			
100	PI2 BPSK	1	1	23.14	23.21	23.02			
100	PI2 BPSK	1	137	23.06	23.15	23.00	24.0	0.0	
100	PI2 BPSK	1	271	23.01	23.06	22.74			
100	PI2 BPSK	135	0	23.03	23.08	23.00	24.0	0.0	
100	PI2 BPSK	135	69	23.05	23.13	23.03	24.0	0.0	
100	PI2 BPSK	135	138	22.89	22.91	22.84	24.0	0.0	
100	PI2 BPSK	270	0	22.84	22.96	22.92	24.0	0.0	
100	QPSK	1	1	23.20	23.22	23.02			
100	QPSK	1	137	22.95	23.11	22.98	24.0	0.0	
100	QPSK	1	271	22.95	22.97	22.81			
100	QPSK	135	0	22.91	22.95	22.78			
100	QPSK	135	69	23.01	23.10	22.85	24.0	0.0	
100	QPSK	135	138	22.89	22.91	22.89	24.0	0.0	
100	QPSK	270	0	22.91	22.94	22.84	24.0	0.0	
100	16QAM	1	1	22.80	22.81	22.74	24.0	0.0	
100	16QAM	1	1	22.81	22.87	22.80	23.5	0.5	
100	256QAM	1	1	20.89	20.92	20.70	21.5	2.5	
Channel									
				506000	518998	509998	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
80	QPSK	1	1	23.07	23.09	22.96	24.0	0.0	
Channel									
				507004	518998	520998	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2649.98	(dBm)	(dB)	
80	QPSK	1	1	23.10	23.14	22.98	24.0	0.0	
Channel									
				506000	518998	531996	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655.98	(dBm)	(dB)	
70	QPSK	1	1	22.91	22.95	22.84	24.0	0.0	
Channel									
				506004	518998	531996	Tune-up limit	MPR	
Frequency (MHz)				2526.00	2592.99	2651.98	(dBm)	(dB)	
60	QPSK	1	1	23.09	23.20	22.96	24.0	0.0	
Channel									
				506004	518998	532998	Tune-up limit	MPR	
Frequency (MHz)				2521.00	2592.99	2657.98	(dBm)	(dB)	
50	QPSK	1	1	23.06	23.13	22.88	24.0	0.0	
Channel									
				505002	518998	530000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	23.08	23.20	22.97	24.0	0.0	
Channel									
				505002	518998	531000	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	23.11	23.13	22.93	24.0	0.0	
Channel									
				507004	518998	531000	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2679.98	(dBm)	(dB)	
20	QPSK	1	1	23.08	23.17	22.95	24.0	0.0	
Channel									
				500700	518998	536498	Tune-up limit	MPR	
Frequency (MHz)				2503.05	2592.99	2683.98	(dBm)	(dB)	
15	QPSK	1	1	23.09	23.14	22.93	24.0	0.0	
Channel									
				506002	518998	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2683	(dBm)	(dB)	
10	QPSK	1	1	23.07	23.16	22.94	24.0	0.0	



n41_Ant 1_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel				509202	518998	528990		
Frequency (MHz)				2548.01	2592.99	2640		
100	PI2 BPSK	1	1	25.13	25.21	25.11		
100	PI2 BPSK	1	137	25.30	25.34	25.25	27.0	0.0
100	PI2 BPSK	1	271	25.11	25.12	25.08		
100	PI2 BPSK	135	0	24.77	24.80	24.76	26.5	0.5
100	PI2 BPSK	135	69	25.33	25.34	25.30	27.0	0.0
100	PI2 BPSK	135	138	24.50	24.55	24.53	26.5	0.5
100	PI2 BPSK	270	0	24.71	24.78	24.71		
100	QPSK	1	1	25.25	25.35	25.25		
100	QPSK	1	137	25.25	25.30	25.21	27.0	0.0
100	QPSK	1	271	24.72	24.81	24.71		
100	QPSK	135	0	24.08	24.17	24.16		
100	QPSK	135	69	25.30	25.32	25.24	27.0	0.0
100	QPSK	135	138	24.07	24.10	24.00		
100	QPSK	270	0	24.28	24.31	24.28	26.0	1.0
100	16QAM	1	1	24.39	24.43	24.37	26.0	1.0
100	64QAM	1	1	22.77	22.87	22.89	24.5	2.5
100	256QAM	1	1	20.86	20.89	20.78	22.5	4.5
Channel				508200	518998	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	25.06	25.12	25.15	27.0	0.0
Channel				507204	518998	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2648.98		
80	QPSK	1	1	25.06	25.15	25.08	27.0	0.0
Channel				506200	518998	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2656		
70	QPSK	1	1	25.09	25.20	25.12	27.0	0.0
Channel				505200	518998	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	25.11	25.16	25.15	27.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	25.10	25.16	25.11	27.0	0.0
Channel				503202	518998	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.09	25.20	25.10	27.0	0.0
Channel				502200	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.11	25.20	25.15	27.0	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	25.08	25.16	25.13	27.0	0.0
Channel				500700	518998	538498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.0	2592.99	2682.98		
15	QPSK	1	1	25.11	25.12	25.15	27.0	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2682		
10	QPSK	1	1	25.07	25.10	25.11	27.0	0.0



n41_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				506002	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.31	20.44	20.29		
100	PI2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0
100	PI2 BPSK	1	271	20.21	20.27	20.22		
100	PI2 BPSK	155	0	20.16	20.28	20.20	22.0	0.0
100	PI2 BPSK	155	69	20.15	20.21	20.11	22.0	0.0
100	PI2 BPSK	155	138	20.11	20.23	20.21		
100	PI2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0
100	QPSK	1	1	20.34	20.49	20.34		
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0
100	QPSK	1	271	20.05	20.24	20.19		
100	QPSK	155	0	20.15	20.31	20.13		
100	QPSK	155	69	20.08	20.38	20.28	22.0	0.0
100	QPSK	155	138	20.05	20.11	20.08		
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0
100	64QAM	1	1	18.92	20.04	20.06	21.5	0.5
100	256QAM	1	1	18.02	18.26	18.11	20.0	2.0
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
80	QPSK	1	1	20.23	20.41	20.20	22.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0
Channel				503000	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0
Channel				502000	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2592.99	2658.98	(dBm)	(dB)
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0
Channel				504204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99	(dBm)	(dB)
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0
Channel				505002	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	20.25	20.45	20.33	22.0	0.0
Channel				502000	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0
Channel				507204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0

n41_Ant 2_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				506002	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.43	22.48	22.22		
100	PI2 BPSK	1	137	22.08	22.22	22.16	24.0	0.0
100	PI2 BPSK	1	271	22.19	22.23	22.21		
100	PI2 BPSK	155	0	21.88	21.99	21.88	23.5	0.5
100	PI2 BPSK	155	69	22.08	22.10	22.08	24.0	0.0
100	PI2 BPSK	155	138	21.75	21.89	21.69	23.5	0.5
100	PI2 BPSK	270	0	21.75	21.88	21.74		
100	QPSK	1	1	22.43	22.51	22.44		
100	QPSK	1	137	22.28	22.37	22.31	24.0	0.0
100	QPSK	1	271	22.08	22.18	22.12		
100	QPSK	155	0	21.83	21.92	21.83		
100	QPSK	155	69	22.07	22.08	22.07	24.0	0.0
100	QPSK	155	138	21.45	21.46	21.34		
100	QPSK	270	0	21.31	21.35	21.29	23.0	1.0
100	16QAM	1	1	21.88	21.83	21.68	23.0	1.0
100	64QAM	1	1	20.91	20.92	20.29	21.5	2.5
100	256QAM	1	1	18.12	18.21	18.19	19.5	4.5
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
80	QPSK	1	1	22.35	22.35	22.12	24.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	22.36	22.43	22.11	24.0	0.0
Channel				503000	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	22.34	22.41	22.12	24.0	0.0
Channel				502000	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2592.99	2658.98	(dBm)	(dB)
60	QPSK	1	1	22.37	22.40	22.15	24.0	0.0
Channel				504204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99	(dBm)	(dB)
50	QPSK	1	1	22.32	22.43	22.18	24.0	0.0
Channel				505002	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	22.34	22.30	22.21	24.0	0.0
Channel				502000	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	22.42	22.42	22.15	24.0	0.0
Channel				507204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	22.34	22.39	22.18	24.0	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	22.41	22.36	22.17	24.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	22.37	22.34	22.18	24.0	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)									
100	PI2 BPSK	1	1	23.04	23.10	22.87			
100	PI2 BPSK	1	137	22.97	23.06	22.86	24.0	0.0	
100	PI2 BPSK	1	271	22.81	22.89	22.86			
100	PI2 BPSK	155	0	22.96	23.11	22.86	24.0	0.0	
100	PI2 BPSK	155	69	23.00	23.15	22.80	24.0	0.0	
100	PI2 BPSK	155	138	22.74	22.88	22.80	24.0	0.0	
100	PI2 BPSK	270	0	22.96	23.05	22.84			
100	QPSK	1	1	22.97	23.18	22.84			
100	QPSK	1	137	22.95	23.08	22.83	24.0	0.0	
100	QPSK	1	271	22.90	22.91	22.79			
100	QPSK	155	0	22.92	23.04	22.79			
100	QPSK	155	69	22.74	22.98	22.79	24.0	0.0	
100	QPSK	155	138	22.82	22.73	22.64			
100	QPSK	270	0	22.88	22.72	22.61	24.0	0.0	
100	16QAM	1	1	22.91	23.07	22.86	24.0	0.0	
100	64QAM	1	1	21.85	21.91	21.86	22.5	1.5	
100	256QAM	1	1	19.85	19.79	19.73	20.5	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.93	23.10	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.98	23.10	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.02	23.05	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.92	23.05	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.99	23.12	22.89	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.95	23.07	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.88	23.06	22.89	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.90	23.12	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.99	23.04	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.80	23.05	22.85	24.0	0.0	

n41_Ant 5_HPUE									
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	24.23	24.27	24.20			
100	PI2 BPSK	1	137	24.10	24.12	24.11	26.0	0.0	
100	PI2 BPSK	1	271	24.07	24.14	24.07			
100	PI2 BPSK	155	0	23.69	23.75	23.72	25.5	0.5	
100	PI2 BPSK	155	69	24.02	24.07	24.04	26.0	0.0	
100	PI2 BPSK	155	138	23.50	23.55	23.53	25.5	0.5	
100	PI2 BPSK	270	0	23.59	23.58	23.52			
100	QPSK	1	1	23.35	24.04	24.03			
100	QPSK	1	137	24.15	24.21	24.15	26.0	0.0	
100	QPSK	1	271	24.11	24.18	24.09			
100	QPSK	155	0	23.22	23.24	23.22			
100	QPSK	155	69	23.55	24.43	24.42	26.0	0.0	
100	QPSK	155	138	22.94	22.96	22.94			
100	QPSK	270	0	23.48	23.51	23.41	25.0	1.0	
100	16QAM	1	1	23.56	23.62	23.55	25.0	1.0	
100	64QAM	1	1	22.09	22.09	22.07	23.5	2.5	
100	256QAM	1	1	19.95	19.97	19.91	21.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.40	24.61	24.48	26.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.51	24.57	24.47	26.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.50	24.62	24.51	26.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.47	24.62	24.49	26.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.49	24.59	24.50	26.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.47	24.57	24.52	26.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.46	24.60	24.48	26.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.48	24.58	24.51	26.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.48	24.63	24.48	26.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.40	24.50	24.47	26.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Hgh. Ch. Freq.		
Channel				506202	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.97	21.01	20.91		
100	PI2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PI2 BPSK	1	271	20.93	21.11	20.89		
100	PI2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PI2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PI2 BPSK	135	138	20.76	21.01	20.89	22.5	0.0
100	PI2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.08		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	16QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506200	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.00	21.04	20.91	22.5	0.0
Channel				508200	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2692.99	2655		
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				509200	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2624	2692.99	2659.98		
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	21.09	21.11	20.90	22.5	0.0
Channel				505202	518598	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2616.01	2692.99	2670		
40	QPSK	1	1	21.00	20.99	20.92	22.5	0.0
Channel				506200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2674.98		
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2679.99		
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518598	538498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.5	2692.99	2682.48		
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2601.01	2592.99	2685		
10	QPSK	1	1	21.07	21.03	20.94	22.5	0.0



n41_Ant 6_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Highest Ch. Freq.		
Channel				506002	518998	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.84	22.74	22.67		
100	PI2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0
100	PI2 BPSK	1	271	22.71	22.93	22.61		
100	PI2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5
100	PI2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0
100	PI2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5
100	PI2 BPSK	270	0	22.26	22.19	22.28		
100	QPSK	1	1	22.81	22.88	22.85		
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0
100	QPSK	1	271	22.61	22.48	22.63		
100	QPSK	135	0	21.73	21.75	21.76		
100	QPSK	135	69	22.61	22.67	22.61	24.5	0.0
100	QPSK	135	138	21.62	21.71	21.71		
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0
100	64QAM	1	1	20.48	20.64	20.48	22.0	2.5
100	256QAM	1	1	18.25	18.56	18.31	20.0	4.5
Channel				506000	518998	526000		
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	22.83	22.88	22.79	24.5	0.0
Channel				507204	518998	526000		
Frequency (MHz)				2536.02	2592.99	2648.98		
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0
Channel				508200	518998	531000		
Frequency (MHz)				2531.01	2592.99	2656		
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0
Channel				509200	518998	531000		
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0
Channel				504204	518998	532000		
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	22.89	22.94	22.83	24.5	0.0
Channel				505202	518998	536000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.89	22.94	22.79	24.5	0.0
Channel				506200	518998	535000		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0
Channel				507204	518998	535000		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0
Channel				507000	518998	538400		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0
Channel				506202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	23.14	23.19	23.02		
100	PI2 BPSK	1	137	23.12	23.09	22.97	24.0	0.0
100	PI2 BPSK	1	271	23.13	23.18	23.01		
100	PI2 BPSK	135	0	23.06	23.13	22.96	24.0	0.0
100	PI2 BPSK	135	69	23.11	23.15	22.95	24.0	0.0
100	PI2 BPSK	135	138	23.05	23.16	22.96	24.0	0.0
100	PI2 BPSK	270	0	23.08	23.11	22.98		
100	QPSK	1	1	23.13	23.21	23.04		
100	QPSK	1	137	23.09	23.09	22.89	24.0	0.0
100	QPSK	1	271	23.04	23.12	22.93		
100	QPSK	135	0	23.06	23.13	22.94		
100	QPSK	135	69	23.09	23.16	22.95	24.0	0.0
100	QPSK	135	138	23.08	23.10	22.91		
100	QPSK	270	0	23.09	23.15	22.92	24.0	0.0
100	16QAM	1	1	23.05	23.16	22.89	24.0	0.0
100	64QAM	1	1	23.10	23.07	22.94	24.0	0.0
100	256QAM	1	1	22.42	22.45	22.41	23.5	0.5
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	23.06	23.11	22.85	24.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	23.10	23.09	22.88	24.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	23.04	23.01	22.85	24.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2592.99	2669.98	(dBm)	(dB)
60	QPSK	1	1	23.01	23.11	22.90	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2669.98	(dBm)	(dB)
50	QPSK	1	1	23.10	23.15	22.95	24.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	23.08	23.12	22.90	24.0	0.0
Channel				502000	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	23.04	23.09	22.90	24.0	0.0
Channel				507204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	23.01	23.11	22.91	24.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.15	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	23.02	23.09	22.88	24.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	23.05	23.07	22.95	24.0	0.0

n41_Ant 9_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	25.54	26.03	25.75		
100	PI2 BPSK	1	137	25.97	26.02	25.84	27.0	0.0
100	PI2 BPSK	1	271	26.10	26.05	25.81		
100	PI2 BPSK	135	0	26.00	26.05	25.79	27.0	0.0
100	PI2 BPSK	135	69	26.01	26.05	25.86	27.0	0.0
100	PI2 BPSK	135	138	25.90	25.95	25.79	27.0	0.0
100	PI2 BPSK	270	0	25.99	26.04	25.78		
100	QPSK	1	1	26.15	26.16	25.91		
100	QPSK	1	137	26.07	25.95	25.81	27.0	0.0
100	QPSK	1	271	25.99	25.72	25.62		
100	QPSK	135	0	25.84	25.67	25.63		
100	QPSK	135	69	25.97	26.00	25.76	27.0	0.0
100	QPSK	135	138	25.20	25.21	25.10		
100	QPSK	270	0	25.24	25.34	25.26	26.0	1.0
100	16QAM	1	1	24.21	25.31	25.22	26.0	1.0
100	64QAM	1	1	24.57	24.65	24.53	25.0	2.0
100	256QAM	1	1	22.41	22.49	22.34	23.5	3.5
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	25.90	25.97	25.75	27.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	25.96	26.03	25.80	27.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	25.94	26.01	25.75	27.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2592.99	2669.98	(dBm)	(dB)
60	QPSK	1	1	25.97	25.99	25.84	27.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2669.98	(dBm)	(dB)
50	QPSK	1	1	25.99	26.01	25.83	27.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	26.00	26.04	25.76	27.0	0.0
Channel				502000	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	25.92	26.00	25.76	27.0	0.0
Channel				507204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	25.99	26.01	25.77	27.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.15	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	25.98	25.97	25.75	27.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	25.90	26.03	25.83	27.0	0.0



n48_FCC_Part96_Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				636000	641666	645332		
Frequency (MHz)				3370	3624.99	3679.98		
40	PI2 BPSK	1	1	22.83	22.92	22.90		
40	PI2 BPSK	1	53	22.81	22.98	22.94	24.0	0.0
40	PI2 BPSK	1	104	22.81	22.98	22.94		
40	PI2 BPSK	50	0	22.71	22.90	22.88	24.0	0.0
40	PI2 BPSK	50	56	22.76	22.97	22.96	24.0	0.0
40	PI2 BPSK	50	56	22.73	22.92	22.87		
40	PI2 BPSK	100	0	22.68	22.91	22.89	24.0	0.0
40	QPSK	1	1	22.80	22.93	22.97		
40	QPSK	1	53	22.85	22.92	22.94	24.0	0.0
40	QPSK	1	104	22.85	22.93	22.77		
40	QPSK	50	0	22.88	22.83	22.83		
40	QPSK	50	28	22.76	22.97	22.96	24.0	0.0
40	QPSK	50	56	22.85	22.84	22.77		
40	QPSK	100	0	22.86	22.82	22.79	24.0	0.0
40	16QAM	1	1	22.81	22.82	22.82	24.0	0.0
40	64QAM	1	1	22.52	22.96	22.43	23.0	1.0
40	256QAM	1	1	20.52	20.81	20.51	21.0	3.0
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3695.02	3624.99	3684.99	(dBm)	(dB)
30	QPSK	1	1	22.64	22.92	22.78	24.0	0.0
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3660.01	3624.99	3690	(dBm)	(dB)
20	QPSK	1	1	22.63	22.90	22.81	24.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3655	3624.99	3694.98	(dBm)	(dB)
10	QPSK	1	1	22.63	22.91	22.84	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				636000	641666	645332		
Frequency (MHz)				3370	3624.99	3679.98		
40	PI2 BPSK	1	1	22.81	22.71	22.48		
40	PI2 BPSK	1	53	22.54	22.66	22.46	24.0	0.0
40	PI2 BPSK	1	104	22.36	22.16	22.37		
40	PI2 BPSK	50	0	22.37	22.31	22.12	23.5	0.5
40	PI2 BPSK	50	56	22.48	22.54	22.41	24.0	0.0
40	PI2 BPSK	50	56	22.37	22.29	22.21		
40	PI2 BPSK	100	0	22.41	22.18	22.28	23.5	0.5
40	QPSK	1	1	22.84	22.78	22.51		
40	QPSK	1	53	22.41	22.68	22.31	24.0	0.0
40	QPSK	1	104	22.38	22.26	22.13		
40	QPSK	50	0	22.18	22.38	22.09		
40	QPSK	50	28	22.76	22.99	22.43	24.0	0.0
40	QPSK	50	56	22.86	22.89	22.88		
40	QPSK	100	0	22.23	22.31	22.26	23.0	1.0
40	16QAM	1	1	22.19	22.36	22.17	23.0	1.0
40	64QAM	1	1	20.29	20.36	20.31	21.5	2.5
40	256QAM	1	1	19.03	19.09	19.06	19.5	4.5
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3695.02	3624.99	3684.99	(dBm)	(dB)
30	QPSK	1	1	22.60	22.57	22.83	24.0	0.0
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3660.01	3624.99	3690	(dBm)	(dB)
20	QPSK	1	1	22.60	22.58	22.54	24.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3655	3624.99	3694.98	(dBm)	(dB)
10	QPSK	1	1	22.60	22.56	22.54	24.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3203	3243.99	3283.98	
40	PI2 BPSK	1	1	2127	2132	2099	22.5
40	PI2 BPSK	1	53	2076	2088	2084	0.0
40	PI2 BPSK	1	104	2107	2122	2114	0.0
40	PI2 BPSK	50	0	2071	2070	2070	22.5
40	PI2 BPSK	50	26	2133	2126	2125	0.0
40	PI2 BPSK	50	56	2065	2065	2066	22.5
40	PI2 BPSK	100	0	2061	2068	2067	0.0
40	QPSK	1	1	2130	2148	2140	22.5
40	QPSK	1	53	2133	2135	2120	0.0
40	QPSK	1	104	2110	2117	2107	0.0
40	QPSK	50	0	2072	2080	2078	22.5
40	QPSK	50	26	2126	2135	2126	0.0
40	QPSK	50	56	2069	2074	2066	22.5
40	QPSK	100	0	2061	2071	2064	0.0
40	16QAM	1	1	1989	2003	1999	21.5
40	16QAM	1	1	1829	1837	1827	2.5
40	16QAM	1	1	1836	1837	1832	4.5
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.98	
30	QPSK	1	1	2124	2147	2143	22.5
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	2130	2144	2145	22.5
Channel				637000	641666	645332	
Frequency (MHz)				3555	3624.99	3694.98	
10	QPSK	1	1	2130	2144	2140	22.5

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3203	3243.99	3283.98	
40	PI2 BPSK	1	1	2293	2300	2293	24.0
40	PI2 BPSK	1	53	2283	2296	2285	0.0
40	PI2 BPSK	1	104	2292	2296	2292	0.0
40	PI2 BPSK	50	0	2234	2232	2223	23.5
40	PI2 BPSK	50	26	2271	2281	2269	24.0
40	PI2 BPSK	50	56	2221	2228	2220	23.5
40	PI2 BPSK	100	0	2217	2225	2220	0.0
40	QPSK	1	1	2296	2303	2294	24.0
40	QPSK	1	53	2276	2286	2271	0.0
40	QPSK	1	104	2240	2252	2248	0.0
40	QPSK	50	0	2263	2277	2264	24.0
40	QPSK	50	26	2276	2281	2276	0.0
40	QPSK	50	56	2187	2179	2169	1.0
40	QPSK	100	0	2153	2168	2156	23.0
40	16QAM	1	1	2199	2200	2196	23.0
40	16QAM	1	1	2042	2046	2034	21.5
40	16QAM	1	1	1930	1945	1931	4.5
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.98	
30	QPSK	1	1	2292	2291	2292	24.0
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	2287	2299	2280	24.0
Channel				637000	641666	645332	
Frequency (MHz)				3555	3624.99	3694.98	
10	QPSK	1	1	2292	2295	2284	24.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.98	23.21	23.15		
100	PI2 BPSK	1	137	22.88	23.13	23.07	24.0	0.0
100	PI2 BPSK	1	271	22.97	23.15	23.05		
100	PI2 BPSK	136	0	22.89	23.13	23.11	24.0	0.0
100	PI2 BPSK	136	69	22.93	23.20	23.07	24.0	0.0
100	PI2 BPSK	136	138	22.93	23.18	23.04	24.0	0.0
100	PI2 BPSK	270	0	22.98	23.19	23.14		
100	QPSK	1	1	23.11	23.32	23.24		
100	QPSK	1	137	23.05	23.18	23.14	24.0	0.0
100	QPSK	1	271	23.03	23.10	23.05		
100	QPSK	136	0	22.88	22.93	22.87		
100	QPSK	136	69	22.91	23.02	22.95	24.0	0.0
100	QPSK	136	138	22.84	22.87	22.83		
100	QPSK	270	0	22.89	22.92	22.85	24.0	0.0
100	16QAM	1	1	23.18	23.20	23.14	24.0	0.0
100	16QAM	1	1	23.16	23.14	23.07	24.0	0.0
100	16QAM	1	1	23.21	23.22	23.21	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.03	23.29	23.22	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.03	23.20	23.23	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.00	23.21	23.22	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.00	23.25	23.20	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.97	23.26	23.15	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.99	23.30	23.20	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.97	23.28	23.14	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.02	23.29	23.23	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.05	23.21	23.17	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.01	23.27	23.24	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.81	26.11	26.05		
100	PI2 BPSK	1	137	25.86	26.08	25.98	27.0	0.0
100	PI2 BPSK	1	271	25.89	26.06	25.94		
100	PI2 BPSK	136	0	25.88	26.03	25.98	27.0	0.0
100	PI2 BPSK	136	69	25.90	26.06	26.02	27.0	0.0
100	PI2 BPSK	136	138	25.84	26.05	25.95	27.0	0.0
100	PI2 BPSK	270	0	25.87	26.09	25.94		
100	QPSK	1	1	25.97	26.24	26.03		
100	QPSK	1	137	25.92	26.19	26.02	27.0	0.0
100	QPSK	1	271	25.94	26.16	26.01		
100	QPSK	136	0	25.87	25.92	25.89		
100	QPSK	136	69	25.86	25.98	25.97	27.0	0.0
100	QPSK	136	138	25.88	25.90	25.88		
100	QPSK	270	0	25.78	25.84	25.78	27.0	0.0
100	16QAM	1	1	26.15	26.22	26.17	27.0	0.0
100	16QAM	1	1	25.15	25.20	25.13	26.0	0.0
100	16QAM	1	1	23.18	23.20	23.19	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.92	26.04	25.98	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.85	26.01	26.04	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.84	26.06	25.95	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.84	26.06	25.98	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.84	26.06	25.98	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.90	26.03	26.02	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.86	26.08	25.94	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.84	26.03	26.02	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.84	26.03	25.94	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.88	26.03	25.94	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.83	26.03	26.03	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.81	26.04	25.98	27.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.99	23.00	22.99		
100	PI2 BPSK	1	137	22.97	23.00	22.97	24.0	0.0
100	PI2 BPSK	1	271	22.96	23.00	22.96		
100	PI2 BPSK	136	0	22.91	23.00	22.91	24.0	0.0
100	PI2 BPSK	136	69	22.91	23.00	22.91	24.0	0.0
100	PI2 BPSK	136	138	22.99	23.00	22.99	24.0	0.0
100	PI2 BPSK	270	0	22.98	23.00	22.98		
100	QPSK	1	1	23.13	23.13	23.13		
100	QPSK	1	137	23.01	23.01	23.01	24.0	0.0
100	QPSK	1	271	23.12	23.12	23.12		
100	QPSK	136	0	22.77	22.77	22.77		
100	QPSK	136	69	22.97	22.97	22.97	24.0	0.0
100	QPSK	136	138	22.89	22.89	22.89		
100	QPSK	270	0	22.74	22.74	22.74	24.0	0.0
100	16QAM	1	1	23.03	23.03	23.03	24.0	0.0
100	16QAM	1	1	23.09	23.09	23.09	24.0	0.0
100	16QAM	1	1	23.00	23.00	23.00	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.97	23.00	22.91	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.95	22.96	22.87	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.92	22.90	22.82	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.94	22.94	22.80	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.94	22.94	22.80	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.88	22.88	22.80	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.94	22.92	22.85	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.94	22.96	22.84	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.94	22.96	22.84	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.96	22.97	22.85	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.96	22.99	22.83	24.0	0.0



Par27Q n77_Ant 4_HPUE									
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	26.03	26.03	26.03	27.0	0.0	
100	PI2 BPSK	1	137	26.06	26.06	26.06	27.0	0.0	
100	PI2 BPSK	1	271	26.04	26.04	26.04	27.0	0.0	
100	PI2 BPSK	135	0	25.92	25.92	25.92	27.0	0.0	
100	PI2 BPSK	135	69	26.00	26.00	26.00	27.0	0.0	
100	PI2 BPSK	135	138	25.99	25.99	25.99	27.0	0.0	
100	PI2 BPSK	270	0	25.98	25.98	25.98	27.0	0.0	
100	QPSK	1	1	26.05	26.05	26.05	27.0	0.0	
100	QPSK	1	137	26.07	26.07	26.07	27.0	0.0	
100	QPSK	1	271	26.05	26.05	26.05	27.0	0.0	
100	QPSK	135	0	25.87	25.87	25.87	27.0	0.0	
100	QPSK	135	69	25.98	25.98	25.98	27.0	0.0	
100	QPSK	135	138	25.94	25.94	25.94	27.0	0.0	
100	QPSK	270	0	25.74	25.74	25.74	27.0	0.0	
100	16QAM	1	1	26.03	26.03	26.03	27.0	0.0	
100	16QAM	1	1	25.91	25.91	25.91	26.0	1.0	
100	256QAM	1	1	22.98	22.98	22.98	24.0	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.94	25.91	25.88	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.93	25.84	25.92	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.91	25.82	25.88	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.91	25.81	25.95	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.85	25.85	25.93	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.84	25.87	25.95	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.85	25.86	25.91	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.89	25.81	25.88	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.89	25.87	25.95	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.87	25.82	25.89	27.0	0.0	

Par27Q n77_Ant 7									
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	22.92	23.09	23.01	24.0	0.0	
100	PI2 BPSK	1	137	22.99	23.07	22.93	24.0	0.0	
100	PI2 BPSK	1	271	22.92	23.03	22.81	24.0	0.0	
100	PI2 BPSK	135	0	22.82	22.98	22.88	24.0	0.0	
100	PI2 BPSK	135	69	23.05	23.07	23.00	24.0	0.0	
100	PI2 BPSK	135	138	22.79	22.89	22.81	24.0	0.0	
100	PI2 BPSK	270	0	22.72	22.98	22.85	24.0	0.0	
100	QPSK	1	1	22.95	23.16	22.95	24.0	0.0	
100	QPSK	1	137	22.92	23.09	22.93	24.0	0.0	
100	QPSK	1	271	22.91	23.02	22.83	24.0	0.0	
100	QPSK	135	0	22.90	22.97	22.80	24.0	0.0	
100	QPSK	135	69	23.05	23.15	22.94	24.0	0.0	
100	QPSK	135	138	22.84	22.89	22.67	24.0	0.0	
100	QPSK	270	0	22.86	23.02	22.76	24.0	0.0	
100	16QAM	1	1	22.82	23.08	22.82	24.0	0.0	
100	16QAM	1	1	22.97	22.49	22.31	23.5	0.5	
100	256QAM	1	1	20.47	20.49	20.36	21.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.85	23.11	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.86	23.01	22.79	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.94	23.04	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.00	23.11	22.93	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.93	23.01	22.93	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.89	23.00	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.87	23.07	22.93	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.87	23.08	22.92	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.85	23.01	22.78	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.93	22.97	22.83	24.0	0.0	

Par27Q n77_Ant 7_HPUE									
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	24.43	24.59	24.51	26.0	0.0	
100	PI2 BPSK	1	137	24.58	24.64	24.50	26.0	0.0	
100	PI2 BPSK	1	271	24.50	24.49	24.19	26.0	0.0	
100	PI2 BPSK	135	0	24.41	24.58	24.29	25.5	0.5	
100	PI2 BPSK	135	69	24.51	24.53	24.41	26.0	0.0	
100	PI2 BPSK	135	138	24.43	24.41	24.39	25.5	0.5	
100	PI2 BPSK	270	0	24.29	24.35	24.33	26.0	0.0	
100	QPSK	1	1	24.51	24.65	24.46	26.0	0.0	
100	QPSK	1	137	24.46	24.59	24.38	26.0	0.0	
100	QPSK	1	271	24.48	24.53	24.29	26.0	0.0	
100	QPSK	135	0	24.16	24.25	24.09	26.0	0.0	
100	QPSK	135	69	24.56	24.63	24.44	26.0	0.0	
100	QPSK	135	138	24.17	24.18	24.01	26.0	0.0	
100	QPSK	270	0	23.68	23.71	23.58	25.0	1.0	
100	16QAM	1	1	23.61	23.68	23.46	25.0	1.0	
100	16QAM	1	1	22.41	22.51	22.37	23.5	2.5	
100	256QAM	1	1	20.70	20.75	20.71	21.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.32	24.46	24.29	26.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.49	24.46	24.28	26.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.44	24.56	24.28	26.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.38	24.47	24.38	26.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.40	24.53	24.40	26.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.30	24.49	24.41	26.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.42	24.55	24.34	26.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.45	24.47	24.26	26.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.31	24.58	24.36	26.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.45	24.44	24.34	26.0	0.0	



Par27Q n77_Ant 7

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	22.2	22.2	24.9		
100	PI2 BPSK	1	137	23.06	23.06	24.9	24.0	0.0
100	PI2 BPSK	1	271	23.04	23.04	24.9		
100	PI2 BPSK	135	0	22.64	22.64	24.9	24.0	0.0
100	PI2 BPSK	135	69	22.83	22.83	24.9		
100	PI2 BPSK	135	138	23.05	23.05	24.9	24.0	0.0
100	PI2 BPSK	270	0	22.91	22.91	24.9		
100	QPSK	1	1	23.12	23.12	24.9		
100	QPSK	1	137	22.89	22.89	24.9	24.0	0.0
100	QPSK	1	271	22.70	22.70	24.9		
100	QPSK	135	0	22.70	22.70	24.9	24.0	0.0
100	QPSK	135	69	22.86	22.86	24.9		
100	QPSK	135	138	22.76	22.76	24.9	24.0	0.0
100	QPSK	270	0	22.81	22.81	24.9		
100	16QAM	1	1	22.82	22.82	24.9	24.0	0.0
100	64QAM	1	1	22.75	22.75	24.9	24.0	0.0
100	256QAM	1	1	20.85	20.85	21.5	2.5	
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.09	23.10	23.07	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.06	23.07	23.10	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.11	23.11	23.10	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.07	23.11	23.08	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.08	23.05	23.08	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.11	23.10	23.07	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.11	23.06	23.08	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.09	23.10	23.11	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.11	23.11	23.07	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.05	23.07	23.07	24.0	0.0

Par27Q n77_Ant 7_HPUE

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	24.23	24.23	24.9		
100	PI2 BPSK	1	137	23.83	23.83	24.9	26.0	0.0
100	PI2 BPSK	1	271	24.35	24.35	24.9		
100	PI2 BPSK	135	0	24.21	24.21	24.9	25.5	0.5
100	PI2 BPSK	135	69	24.41	24.41	24.9		
100	PI2 BPSK	135	138	24.46	24.46	24.9	25.5	0.5
100	PI2 BPSK	270	0	24.30	24.30	24.9		
100	QPSK	1	1	24.47	24.47	24.9		
100	QPSK	1	137	24.20	24.20	24.9	26.0	0.0
100	QPSK	1	271	24.20	24.20	24.9		
100	QPSK	135	0	24.11	24.11	24.9		
100	QPSK	135	69	24.46	24.46	24.9	26.0	0.0
100	QPSK	135	138	24.12	24.12	24.9		
100	QPSK	270	0	24.00	24.00	24.9	25.0	1.0
100	16QAM	1	1	24.10	24.10	24.9	25.0	1.0
100	64QAM	1	1	22.75	22.75	23.5	2.5	
100	256QAM	1	1	20.85	20.85	21.5	4.5	
Channel								
Frequency (MHz)								
90	QPSK	1	1	24.45	24.46	24.43	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.44	24.46	24.44	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.41	24.40	24.41	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.44	24.40	24.40	26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.42	24.40	24.42	26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.43	24.41	24.41	26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.43	24.41	24.46	26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.42	24.46	24.44	26.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.45	24.40	24.40	26.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.45	24.41	24.41	26.0	0.0

Par27Q n77_Ant 8

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	19.49	19.49	19.39		
100	PI2 BPSK	1	137	19.52	19.45	19.39	21.0	0.0
100	PI2 BPSK	1	271	19.46	19.54	19.32		
100	PI2 BPSK	135	0	19.48	19.47	19.42	21.0	0.0
100	PI2 BPSK	135	69	19.48	19.53	19.32		
100	PI2 BPSK	135	138	19.44	19.55	19.46	21.0	0.0
100	PI2 BPSK	270	0	19.43	19.44	19.39		
100	QPSK	1	1	19.53	19.58	19.47		
100	QPSK	1	137	19.45	19.50	19.42	21.0	0.0
100	QPSK	1	271	19.42	19.50	19.38		
100	QPSK	135	0	19.40	19.52	19.43		
100	QPSK	135	69	19.48	19.57	19.44		
100	QPSK	135	138	19.42	19.44	19.40	21.0	0.0
100	QPSK	270	0	19.48	19.49	19.35	21.0	0.0
100	16QAM	1	1	19.43	19.51	19.43	21.0	0.0
100	64QAM	1	1	18.99	19.02	19.00	20.5	0.5
100	256QAM	1	1	18.82	18.90	18.80	18.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.42	19.46	19.37	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.50	19.56	19.32	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.40	19.50	19.44	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.52	19.51	19.34	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.41	19.57	19.45	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.51	19.57	19.38	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.41	19.43	19.32	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.48	19.45	19.38	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.40	19.43	19.37	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.43	19.47	19.33	21.0	0.0



Par270 n77_Ant 8_HPUE										
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	21.41	21.44	21.43				
100	PI2 BPSK	1	137	21.18	21.29	21.28	23.0	0.0		
100	PI2 BPSK	1	271	21.38	21.42	21.31				
100	PI2 BPSK	135	0	20.57	20.72	20.70	22.5	0.5		
100	PI2 BPSK	135	69	21.33	21.34	21.21	23.0	0.0		
100	PI2 BPSK	135	138	20.79	20.83	20.70				
100	PI2 BPSK	270	0	20.59	20.72	20.71	22.5	0.5		
100	QPSK	1	1	21.41	21.34	21.52				
100	QPSK	1	137	21.36	21.43	21.31	23.0	0.0		
100	QPSK	1	271	21.14	21.23	21.11				
100	QPSK	135	0	20.35	20.39	20.37				
100	QPSK	135	69	21.36	21.48	21.42	23.0	0.0		
100	QPSK	135	138	20.44	20.45	20.35				
100	QPSK	270	0	20.28	20.43	20.39	22.0	1.0		
100	16QAM	1	1	20.37	20.49	20.37	22.0	1.0		
100	64QAM	1	1	18.96	19.02	18.91	20.5	2.5		
100	256QAM	1	1	18.88	18.90	18.75	18.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	21.11	21.35	21.41	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.05	21.34	21.38	23.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.16	21.29	21.39	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.08	21.38	21.40	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.12	21.35	21.35	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.05	21.29	21.30	23.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.10	21.32	21.34	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.08	21.32	21.37	23.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	21.14	21.33	21.34	23.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	21.11	21.34	21.34	23.0	0.0		

Par270 n77_Ant 8										
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	18.84						
100	PI2 BPSK	1	137	18.87			20.5	0.0		
100	PI2 BPSK	1	271	18.93						
100	PI2 BPSK	135	0	18.90			20.5	0.0		
100	PI2 BPSK	135	69	18.83			20.5	0.0		
100	PI2 BPSK	135	138	18.80						
100	PI2 BPSK	270	0	18.85			20.5	0.0		
100	QPSK	1	1	18.85						
100	QPSK	1	137	18.83			20.5	0.0		
100	QPSK	1	271	18.83						
100	QPSK	135	0	18.87						
100	QPSK	135	69	18.91			20.5	0.0		
100	QPSK	135	138	18.89						
100	QPSK	270	0	18.80			20.5	0.0		
100	16QAM	1	1	18.94			20.5	0.0		
100	64QAM	1	1	18.45			20.0	0.5		
100	256QAM	1	1	18.38			18.0	2.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	18.85	18.83	18.82	20.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.85	18.89	18.81	20.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.86	18.85	18.77	20.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.86	18.87	18.78	20.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.83	18.83	18.86	20.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.84	18.83	18.85	20.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.83	18.88	18.87	20.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.88	18.89	18.79	20.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.86	18.81	18.88	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.80	18.85	18.80	20.5	0.0		

Par270 n77_Ant 8_HPUE										
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	20.89						
100	PI2 BPSK	1	137	20.85			22.5	0.0		
100	PI2 BPSK	1	271	20.93						
100	PI2 BPSK	135	0	20.35			22.0	0.5		
100	PI2 BPSK	135	69	20.86			22.5	0.0		
100	PI2 BPSK	135	138	20.40						
100	PI2 BPSK	270	0	20.32			22.0	0.5		
100	QPSK	1	1	20.89						
100	QPSK	1	137	20.82			22.5	0.0		
100	QPSK	1	271	20.90						
100	QPSK	135	0	19.78						
100	QPSK	135	69	20.82			22.5	0.0		
100	QPSK	135	138	19.80						
100	QPSK	270	0	19.78			21.5	1.0		
100	16QAM	1	1	19.99			21.5	1.0		
100	64QAM	1	1	18.45			20.0	2.5		
100	256QAM	1	1	18.38			18.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	20.81	20.88	20.98	22.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.83	20.88	20.87	22.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	20.86	20.93	20.89	22.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	20.92	20.97	20.96	22.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.89	20.89	20.93	22.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.93	20.92	20.93	22.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.89	20.92	20.87	22.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.86	20.94	20.90	22.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.91	20.87	20.89	22.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.84	20.89	20.87	22.5	0.0		



Par270 n77_Ant 10									
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	21.54	21.77	21.71			
100	PI2 BPSK	1	137	21.58	21.65	21.64	23.0	0.0	
100	PI2 BPSK	1	271	21.60	21.76	21.66			
100	PI2 BPSK	135	0	21.64	21.70	21.63	23.0	0.0	
100	PI2 BPSK	135	69	21.53	21.65	21.67	23.0	0.0	
100	PI2 BPSK	135	138	21.62	21.65	21.67			
100	PI2 BPSK	270	0	21.52	21.74	21.72	23.0	0.0	
100	QPSK	1	1	21.68	21.78	21.74			
100	QPSK	1	137	21.53	21.65	21.73	23.0	0.0	
100	QPSK	1	271	21.58	21.72	21.61			
100	QPSK	135	0	21.80	21.85	21.89			
100	QPSK	135	69	21.65	21.76	21.74	23.0	0.0	
100	QPSK	135	138	21.53	21.70	21.60			
100	QPSK	270	0	21.64	21.67	21.66	23.0	0.0	
100	16QAM	1	1	21.58	21.74	21.65	23.0	0.0	
100	64QAM	1	1	21.16	21.21	21.07	22.5	0.5	
100	256QAM	1	1	18.14	18.16	18.10	20.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.57	21.67	21.62	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.55	21.66	21.68	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.53	21.63	21.65	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.55	21.68	21.65	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.65	21.64	21.72	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.70	21.69	21.69	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.56	21.74	21.68	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.58	21.63	21.68	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.55	21.77	21.84	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.57	21.60	21.69	23.0	0.0	

Par270 n77_Ant_10_HPUE									
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	23.63	23.70	23.68			
100	PI2 BPSK	1	137	23.58	23.62	23.65	25.0	0.0	
100	PI2 BPSK	1	271	23.53	23.61	23.59			
100	PI2 BPSK	135	0	23.58	23.62	23.59	24.5	0.5	
100	PI2 BPSK	135	69	23.40	23.52	23.41	25.0	0.0	
100	PI2 BPSK	135	138	22.88	23.01	22.98			
100	PI2 BPSK	270	0	22.95	23.03	22.97	24.5	0.5	
100	QPSK	1	1	23.60	23.71	23.61			
100	QPSK	1	137	23.56	23.67	23.54	25.0	0.0	
100	QPSK	1	271	23.37	23.42	23.41			
100	QPSK	135	0	22.42	22.48	22.39			
100	QPSK	135	69	22.40	22.51	22.44	25.0	0.0	
100	QPSK	135	138	22.47	22.57	22.50			
100	QPSK	270	0	22.44	22.52	22.40	24.0	1.0	
100	16QAM	1	1	22.82	22.65	22.58	24.0	1.0	
100	64QAM	1	1	21.16	21.21	21.07	22.5	2.5	
100	256QAM	1	1	18.11	18.16	18.14	20.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.51	23.69	23.59	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.55	23.62	23.55	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.54	23.69	23.62	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.55	23.62	23.54	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.51	23.64	23.62	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.57	23.69	23.61	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.49	23.69	23.59	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.45	23.60	23.64	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.54	23.66	23.54	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.40	23.64	23.61	25.0	0.0	

Par270 n77_Ant 10									
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			21.70			
100	PI2 BPSK	1	137			21.73	23.0	0.0	
100	PI2 BPSK	1	271			21.74			
100	PI2 BPSK	135	0			21.74	23.0	0.0	
100	PI2 BPSK	135	69			21.78	23.0	0.0	
100	PI2 BPSK	135	138			21.76			
100	PI2 BPSK	270	0			21.78	23.0	0.0	
100	QPSK	1	1			21.85			
100	QPSK	1	137			21.81	23.0	0.0	
100	QPSK	1	271			21.81			
100	QPSK	135	0			21.80			
100	QPSK	135	69			21.82	23.0	0.0	
100	QPSK	135	138			21.79			
100	QPSK	270	0			21.72	23.0	0.0	
100	16QAM	1	1			21.82	23.0	0.0	
100	64QAM	1	1			21.21	22.5	0.5	
100	256QAM	1	1			18.17	20.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1			21.78	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1			21.79	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1			21.80	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1			21.72	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1			21.80	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1			21.72	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1			21.83	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1			21.75	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1			21.75	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1			21.70	23.0	0.0	



Par27Q n77_Ant 10_HPUE

EW (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	23.80	23.80	23.80	25.0	0.0
100	PI2 BPSK	1	137	23.67	23.67	23.67	25.0	0.0
100	PI2 BPSK	1	271	23.73	23.73	23.73	25.0	0.0
100	PI2 BPSK	135	0	23.14	23.14	23.14	24.5	0.5
100	PI2 BPSK	135	69	23.03	23.03	23.03	25.0	0.0
100	PI2 BPSK	135	138	23.10	23.10	23.10	24.5	0.5
100	PI2 BPSK	270	0	23.08	23.08	23.08	25.0	0.0
100	QPSK	1	1	23.81	23.81	23.81	25.0	0.0
100	QPSK	1	137	23.31	23.31	23.31	25.0	0.0
100	QPSK	1	271	23.38	23.38	23.38	25.0	0.0
100	QPSK	135	0	22.51	22.51	22.51	25.0	0.0
100	QPSK	135	69	22.22	22.22	22.22	25.0	0.0
100	QPSK	135	138	22.10	22.10	22.10	25.0	0.0
100	QPSK	270	0	22.28	22.28	22.28	24.0	1.0
100	16QAM	1	1	22.83	22.83	22.83	24.0	1.0
100	64QAM	1	1	21.21	21.21	21.21	22.5	2.5
100	256QAM	1	1	19.17	19.17	19.17	20.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.80	23.80	23.80	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.70	23.71	23.74	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.74	23.76	23.71	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.80	23.80	23.75	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.74	23.74	23.73	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.70	23.70	23.70	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.73	23.76	23.79	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.75	23.75	23.74	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.77	23.72	23.77	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.75	23.72	23.72	25.0	0.0

Par27Q n78_Ant 4

EW (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	23.20	23.20	23.20	24.0	0.0
100	PI2 BPSK	1	137	23.21	23.21	23.21	24.0	0.0
100	PI2 BPSK	1	271	23.20	23.20	23.20	24.0	0.0
100	PI2 BPSK	135	0	23.11	23.11	23.11	24.0	0.0
100	PI2 BPSK	135	69	23.14	23.14	23.14	24.0	0.0
100	PI2 BPSK	135	138	23.08	23.08	23.08	24.0	0.0
100	PI2 BPSK	270	0	23.03	23.03	23.03	24.0	0.0
100	QPSK	1	1	23.22	23.22	23.22	24.0	0.0
100	QPSK	1	137	23.06	23.06	23.06	24.0	0.0
100	QPSK	1	271	23.12	23.12	23.12	24.0	0.0
100	QPSK	135	0	23.06	23.06	23.06	24.0	0.0
100	QPSK	135	69	23.11	23.11	23.11	24.0	0.0
100	QPSK	135	138	23.04	23.04	23.04	24.0	0.0
100	QPSK	270	0	23.06	23.06	23.06	24.0	0.0
100	16QAM	1	1	23.06	23.06	23.06	24.0	0.0
100	64QAM	1	1	23.04	23.04	23.04	24.0	0.0
100	256QAM	1	1	22.97	22.97	22.97	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.00	23.04	23.00	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.97	22.95	23.01	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.01	22.98	23.01	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.00	22.94	23.02	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.02	23.01	23.01	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.99	22.93	23.07	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.01	22.99	23.05	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.00	23.01	23.02	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.98	23.02	23.04	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.00	22.99	23.03	24.0	0.0

Par27Q n78_Ant 4_HPUE

EW (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	25.88	25.88	25.88	27.0	0.0
100	PI2 BPSK	1	137	25.85	25.85	25.85	27.0	0.0
100	PI2 BPSK	1	271	25.85	25.85	25.85	27.0	0.0
100	PI2 BPSK	135	0	25.80	25.80	25.80	27.0	0.0
100	PI2 BPSK	135	69	25.83	25.83	25.83	27.0	0.0
100	PI2 BPSK	135	138	25.83	25.83	25.83	27.0	0.0
100	PI2 BPSK	270	0	25.83	25.83	25.83	27.0	0.0
100	QPSK	1	1	25.91	25.91	25.91	27.0	0.0
100	QPSK	1	137	25.81	25.81	25.81	27.0	0.0
100	QPSK	1	271	25.78	25.78	25.78	27.0	0.0
100	QPSK	135	0	25.85	25.85	25.85	27.0	0.0
100	QPSK	135	69	25.86	25.86	25.86	27.0	0.0
100	QPSK	135	138	25.81	25.81	25.81	27.0	0.0
100	QPSK	270	0	25.83	25.83	25.83	27.0	0.0
100	16QAM	1	1	25.88	25.88	25.88	27.0	0.0
100	64QAM	1	1	25.08	25.08	25.08	26.0	1.0
100	256QAM	1	1	23.15	23.15	23.15	24.0	3.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.80	25.88	25.88	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.74	25.75	25.84	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.71	25.82	25.84	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.71	25.77	25.86	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.74	25.78	25.86	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.69	25.81	25.89	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.77	25.75	25.84	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.74	25.82	25.86	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.76	25.79	25.77	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.71	25.82	25.78	27.0	0.0



Part27Q 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)									
100	PI2 BPSK	1	1	23.00	23.00	24.00	24.0	0.0	
100	PI2 BPSK	1	137	23.00	23.00	24.00	24.0	0.0	
100	PI2 BPSK	1	271	23.00	23.00	24.00	24.0	0.0	
100	PI2 BPSK	135	0	22.98	22.98	24.00	24.0	0.0	
100	PI2 BPSK	135	69	22.98	23.00	24.00	24.0	0.0	
100	PI2 BPSK	135	138	23.02	23.02	24.00	24.0	0.0	
100	PI2 BPSK	270	0	22.98	22.98	24.00	24.0	0.0	
100	QPSK	1	1	23.00	23.00	24.00	24.0	0.0	
100	QPSK	1	137	23.00	23.00	24.00	24.0	0.0	
100	QPSK	1	271	22.94	22.94	24.00	24.0	0.0	
100	QPSK	135	0	23.00	23.00	24.00	24.0	0.0	
100	QPSK	135	69	23.02	23.02	24.00	24.0	0.0	
100	QPSK	135	138	23.01	23.01	24.00	24.0	0.0	
100	QPSK	270	0	23.00	23.00	24.00	24.0	0.0	
100	16QAM	1	1	22.99	22.99	24.00	24.0	0.0	
100	64QAM	1	1	22.99	22.99	24.00	24.0	0.0	
100	256QAM	1	1	22.98	22.98	24.00	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.02	23.01	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.96	22.95	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.94	22.98	22.97	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.02	23.02	22.95	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.95	22.94	22.94	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.99	23.02	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.02	22.97	22.94	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.00	22.95	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.95	22.97	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.01	23.02	22.95	24.0	0.0	

Part27Q n78_Ant 4_HPUE									
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	25.89	25.89	25.89	27.0	0.0	
100	PI2 BPSK	1	137	25.89	25.89	25.89	27.0	0.0	
100	PI2 BPSK	1	271	25.91	25.91	25.91	27.0	0.0	
100	PI2 BPSK	135	0	25.89	25.89	25.89	27.0	0.0	
100	PI2 BPSK	135	69	25.94	25.94	25.94	27.0	0.0	
100	PI2 BPSK	135	138	25.93	25.93	25.93	27.0	0.0	
100	PI2 BPSK	270	0	25.90	25.90	25.90	27.0	0.0	
100	QPSK	1	1	26.00	26.00	26.00	27.0	0.0	
100	QPSK	1	137	25.90	25.90	25.90	27.0	0.0	
100	QPSK	1	271	25.93	25.93	25.93	27.0	0.0	
100	QPSK	135	0	25.94	25.94	25.94	27.0	0.0	
100	QPSK	135	69	25.88	25.88	25.88	27.0	0.0	
100	QPSK	135	138	25.93	25.93	25.93	27.0	0.0	
100	QPSK	270	0	25.97	25.97	25.97	27.0	0.0	
100	16QAM	1	1	25.97	25.97	25.97	27.0	0.0	
100	64QAM	1	1	25.96	25.96	25.96	26.0	1.0	
100	256QAM	1	1	25.97	25.97	25.97	24.0	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.88	25.84	25.85	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.86	25.84	25.87	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.91	25.87	25.89	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.95	25.84	25.87	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.94	25.87	25.95	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.95	25.87	25.85	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.88	25.84	25.90	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.92	25.86	25.87	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.90	25.85	25.85	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.97	25.83	25.94	27.0	0.0	



Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.10	23.10	23.10	0.0
100	PI2 BPSK	1	137	23.12	23.12	24.0	0.0
100	PI2 BPSK	1	271	23.10	23.10	24.0	0.0
100	PI2 BPSK	135	0	23.17	23.17	24.0	0.0
100	PI2 BPSK	135	69	23.13	23.13	24.0	0.0
100	PI2 BPSK	135	138	23.16	23.16	24.0	0.0
100	PI2 BPSK	270	0	23.18	23.18	24.0	0.0
100	QPSK	1	1	23.12	23.12	24.0	0.0
100	QPSK	1	137	23.12	23.12	24.0	0.0
100	QPSK	1	271	23.16	23.16	24.0	0.0
100	QPSK	135	0	23.09	23.09	24.0	0.0
100	QPSK	135	69	23.12	23.12	24.0	0.0
100	QPSK	135	138	22.50	22.50	24.0	0.0
100	QPSK	270	0	23.14	23.14	24.0	0.0
100	16QAM	1	1	23.12	23.12	24.0	0.0
100	64QAM	1	1	22.98	22.98	23.5	2.5
100	256QAM	1	1	21.11	21.11	23.5	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.82	23.82	23.82	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.12	23.06	23.09	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.15	23.13	23.12	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.14	23.12	23.09	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.11	23.10	23.13	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.10	23.09	23.08	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.13	23.09	23.14	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.14	23.05	23.05	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.12	23.12	23.13	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.16	23.07	23.05	24.0

Part27Q n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	24.44	24.44	24.44	0.0
100	PI2 BPSK	1	137	24.38	24.38	26.0	0.0
100	PI2 BPSK	1	271	24.39	24.39	26.0	0.0
100	PI2 BPSK	135	0	24.40	24.40	25.5	0.5
100	PI2 BPSK	135	69	24.42	24.42	26.0	0.0
100	PI2 BPSK	135	138	24.41	24.41	25.5	0.5
100	PI2 BPSK	270	0	24.38	24.38	26.0	0.0
100	QPSK	1	1	24.45	24.45	26.0	0.0
100	QPSK	1	137	24.37	24.37	26.0	0.0
100	QPSK	1	271	24.10	24.10	26.0	0.0
100	QPSK	135	0	24.33	24.33	26.0	0.0
100	QPSK	135	69	24.40	24.40	26.0	0.0
100	QPSK	135	138	24.22	24.22	26.0	0.0
100	QPSK	270	0	24.21	24.21	25.0	1.0
100	16QAM	1	1	24.14	24.14	25.0	1.0
100	64QAM	1	1	23.27	23.27	23.5	2.5
100	256QAM	1	1	21.14	21.14	23.5	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	24.43	24.42	24.42	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	24.44	24.42	24.39	26.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	24.43	24.38	24.40	26.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	24.40	24.43	24.43	26.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	24.42	24.43	24.41	26.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	24.39	24.40	24.42	26.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.41	24.42	24.44	26.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.40	24.40	24.43	26.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	24.39	24.39	24.42	26.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.40	24.40	24.42	26.0



Par270 n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	19.57	3795		
100	PI2 BPSK	1	137	19.57	3795	21.0	0.0
100	PI2 BPSK	1	271	19.54			
100	PI2 BPSK	135	0	19.56		21.0	0.0
100	PI2 BPSK	135	69	19.55		21.0	0.0
100	PI2 BPSK	135	138	19.64		21.0	0.0
100	PI2 BPSK	270	0	19.64			
100	QPSK	1	1	19.65			
100	QPSK	1	137	19.57		21.0	0.0
100	QPSK	1	271	19.54			
100	QPSK	135	0	19.60			
100	QPSK	135	69	19.65		21.0	0.0
100	QPSK	135	138	19.61			
100	QPSK	270	0	19.55		21.0	0.0
100	16QAM	1	1	19.62		21.0	0.0
100	64QAM	1	1	18.74		20.9	0.5
100	256QAM	1	1	18.76		18.5	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	19.62	3795	3794.98	21.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.51	3795	3795.99	21.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.58	3795	3795	21.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	19.56	3795	3795.99	21.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.57	3795	3795.98	21.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.55	3795	3794.98	21.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.55	3795	3794.98	21.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.58	3795	3795.99	21.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.65	3795	3795.98	21.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.62	3795	3795	21.0

Par270 n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	21.58	3795		
100	PI2 BPSK	1	137	21.44		23.0	0.0
100	PI2 BPSK	1	271	21.53			
100	PI2 BPSK	135	0	20.70		22.5	0.5
100	PI2 BPSK	135	69	21.33		23.0	0.0
100	PI2 BPSK	135	138	20.82		22.5	0.5
100	PI2 BPSK	270	0	20.78			
100	QPSK	1	1	21.60			
100	QPSK	1	137	21.52		23.0	0.0
100	QPSK	1	271	21.54			
100	QPSK	135	0	20.17			
100	QPSK	135	69	21.29		23.0	0.0
100	QPSK	135	138	20.32			
100	QPSK	270	0	20.23		22.0	1.0
100	16QAM	1	1	20.28		22.0	1.0
100	64QAM	1	1	18.74		20.9	2.5
100	256QAM	1	1	18.76		18.5	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	21.65	3795	3794.98	23.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	21.54	3795	3795.99	23.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	21.51	3795	3795	23.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	21.59	3795	3795.99	23.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	21.52	3795	3795.98	23.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	21.51	3795	3794.98	23.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.55	3795	3794.98	23.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.58	3795	3795.99	23.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	21.55	3795	3795.98	23.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.56	3795	3795	23.0



Part27Q n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.93	3499.98		
100	PI2 BPSK	1	137	18.97	18.97	20.0	0.0
100	PI2 BPSK	1	271	18.94			
100	PI2 BPSK	135	0	18.92		20.0	0.0
100	PI2 BPSK	135	69	18.99		20.0	0.0
100	PI2 BPSK	135	138	18.81		20.0	0.0
100	PI2 BPSK	270	0	18.81			
100	QPSK	1	1	18.95			
100	QPSK	1	137	18.87		20.0	0.0
100	QPSK	1	271	18.89			
100	QPSK	135	0	18.94			
100	QPSK	135	69	18.95		20.0	0.0
100	QPSK	135	138	18.90			
100	QPSK	270	0	18.81		20.0	0.0
100	16QAM	1	1	18.90		20.0	0.0
100	64QAM	1	1	18.29		18.5	0.5
100	256QAM	1	1	18.31		17.5	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.87	18.81	18.81	20.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.87	18.85	18.85	20.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.81	18.80	18.78	20.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.88	18.79	18.81	20.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.87	18.83	18.80	20.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.90	18.83	18.87	20.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.90	18.91	18.83	20.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.83	18.80	18.81	20.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.90	18.83	18.82	20.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.86	18.70	18.83	20.0

Part27Q n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	20.87	3499.98		
100	PI2 BPSK	1	137	20.86		22.0	0.0
100	PI2 BPSK	1	271	20.50			
100	PI2 BPSK	135	0	20.23		21.5	0.5
100	PI2 BPSK	135	69	20.80		22.0	0.0
100	PI2 BPSK	135	138	20.31		21.5	0.5
100	PI2 BPSK	270	0	20.28			
100	QPSK	1	1	20.91			
100	QPSK	1	137	20.79		22.0	0.0
100	QPSK	1	271	20.53			
100	QPSK	135	0	19.74			
100	QPSK	135	69	20.69		22.0	0.0
100	QPSK	135	138	18.90		21.0	1.0
100	QPSK	270	0	18.69		21.0	1.0
100	16QAM	1	1	19.90		21.0	1.0
100	64QAM	1	1	18.29		18.5	2.5
100	256QAM	1	1	18.31		17.5	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.87	20.86	20.83	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.80	20.84	20.80	22.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.86	20.81	20.83	22.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.87	20.84	20.88	22.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.83	20.84	20.88	22.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.82	20.77	20.86	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.83	20.79	20.85	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.87	20.83	20.84	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.85	20.86	20.87	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.70	20.70	20.84	22.0



Par270 n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	2172	2172		
100	PI2 BPSK	1	137	2168	2168	23.0	0.0
100	PI2 BPSK	1	271	2171	2171		
100	PI2 BPSK	135	0	2172	2172	23.0	0.0
100	PI2 BPSK	135	69	2174	2174	23.0	0.0
100	PI2 BPSK	135	138	2165	2165	23.0	0.0
100	PI2 BPSK	270	0	2169	2169		
100	QPSK	1	1	2175	2175		
100	QPSK	1	137	2168	2168	23.0	0.0
100	QPSK	1	271	2173	2173		
100	QPSK	135	0	2181	2181		
100	QPSK	135	69	2168	2168	23.0	0.0
100	QPSK	135	138	2164	2164		
100	QPSK	270	0	2168	2168	23.0	0.0
100	16QAM	1	1	2167	2167	23.0	0.0
100	64QAM	1	1	2170	2170	22.5	0.5
100	256QAM	1	1	1925	1925	20.5	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	2172	2162	21.62	23.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	2160	2166	21.55	23.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	2173	2164	21.65	23.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	2168	2167	21.62	23.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	2167	2158	21.55	23.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	2144	2140	21.40	23.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	2171	2161	21.68	23.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	2169	2166	21.66	23.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	2168	2163	21.55	23.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	2166	2170	21.59	23.0

Par270 n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	2342	2342		
100	PI2 BPSK	1	137	2340	2340	25.0	0.0
100	PI2 BPSK	1	271	2343	2343		
100	PI2 BPSK	135	0	2344	2344	24.5	0.5
100	PI2 BPSK	135	69	2347	2347	24.5	0.0
100	PI2 BPSK	135	138	2340	2340	24.5	0.5
100	PI2 BPSK	270	0	2338	2338		
100	QPSK	1	1	2371	2371		
100	QPSK	1	137	2369	2369	25.0	0.0
100	QPSK	1	271	2364	2364		
100	QPSK	135	0	2352	2352		
100	QPSK	135	69	2339	2339	25.0	0.0
100	QPSK	135	138	2332	2332		
100	QPSK	270	0	2338	2338	24.0	1.0
100	16QAM	1	1	2359	2359	24.0	1.0
100	64QAM	1	1	2470	2470	22.5	2.5
100	256QAM	1	1	1925	1925	20.5	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	2353	2330	23.63	23.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	2360	2364	23.63	25.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	2358	2361	23.62	25.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	2360	2364	23.63	25.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	2352	2364	23.60	25.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	2359	2368	23.61	25.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	2357	2363	23.65	25.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	2360	2363	23.60	25.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	2357	2363	23.65	25.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	2355	2370	23.68	25.0



Part27Q n78_Ant 10									
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	2173	2173	2173			
100	PI2 BPSK	1	137	2170	2170	2170	23.0	0.0	
100	PI2 BPSK	1	271	2168	2168	2168			
100	PI2 BPSK	135	0	2167	2167	2167	23.0	0.0	
100	PI2 BPSK	135	69	2170	2170	2170	23.0	0.0	
100	PI2 BPSK	135	138	2168	2168	2168	23.0	0.0	
100	PI2 BPSK	270	0	2173	2173	2173			
100	QPSK	1	1	2168	2168	2168			
100	QPSK	1	137	2170	2170	2170	23.0	0.0	
100	QPSK	1	271	2174	2174	2174			
100	QPSK	135	0	2172	2172	2172			
100	QPSK	135	69	2177	2177	2177	23.0	0.0	
100	QPSK	135	138	2172	2172	2172	23.0	0.0	
100	QPSK	270	0	2175	2175	2175	23.0	0.0	
100	16QAM	1	1	2169	2169	2169	23.0	0.0	
100	64QAM	1	1	2145	2145	2145	22.5	0.5	
100	256QAM	1	1	1947	1947	1947	20.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	2172	2171	2168	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	2180	2169	2160	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	2169	2168	2167	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	2180	2168	2169	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	2167	2162	2158	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	2176	2160	2160	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2179	2160	2160	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	2179	2162	2167	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	2171	2157	2156	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	2170	2160	2160	23.0	0.0	

Part27Q n78_Ant 10_HPUE									
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	2373	2373	2373			
100	PI2 BPSK	1	137	2370	2370	2370	25.0	0.0	
100	PI2 BPSK	1	271	2368	2368	2368			
100	PI2 BPSK	135	0	2377	2377	2377	24.5	0.5	
100	PI2 BPSK	135	69	2370	2370	2370	25.0	0.0	
100	PI2 BPSK	135	138	2368	2368	2368	24.5	0.5	
100	PI2 BPSK	270	0	2373	2373	2373			
100	QPSK	1	1	2368	2368	2368			
100	QPSK	1	137	2370	2370	2370	25.0	0.0	
100	QPSK	1	271	2374	2374	2374			
100	QPSK	135	0	2372	2372	2372			
100	QPSK	135	69	2377	2377	2377	25.0	0.0	
100	QPSK	135	138	2372	2372	2372	25.0	0.0	
100	QPSK	270	0	2375	2375	2375	24.0	1.0	
100	16QAM	1	1	2374	2374	2374	24.0	1.0	
100	64QAM	1	1	2146	2146	2146	22.5	2.5	
100	256QAM	1	1	1928	1928	1928	20.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	2365	2371	2373	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	2365	2371	2378	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	2371	2366	2372	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	2374	2370	2371	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	2371	2372	2377	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	2365	2372	2372	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2373	2368	2378	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	2368	2368	2369	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	2372	2365	2378	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	2365	2371	2372	25.0	0.0	



Reduced Power Mode for DS12

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)				1860	1880	1900			
20	PI2 BPSK	1	1	19.18	19.37	19.24			
20	PI2 BPSK	1	53	19.27	19.40	19.26	20.5	0.0	
20	PI2 BPSK	1	104	19.16	19.39	19.27			
20	PI2 BPSK	50	0	19.21	19.35	19.32	20.5	0.0	
20	PI2 BPSK	50	28	19.26	19.38	19.19	20.5	0.0	
20	PI2 BPSK	50	56	19.29	19.34	19.22	20.5	0.0	
20	PI2 BPSK	100	0	19.22	19.36	19.19			
20	QPSK	1	1	19.34	19.44	19.37			
20	QPSK	1	53	19.27	19.31	19.16	20.5	0.0	
20	QPSK	1	104	19.30	19.32	19.20			
20	QPSK	50	0	19.19	19.32	19.26	20.5	0.0	
20	QPSK	50	28	19.20	19.36	19.32	20.5	0.0	
20	QPSK	50	56	19.16	19.32	19.31	20.5	0.0	
20	QPSK	100	0	19.22	19.43	19.23			
20	8QAM	1	1	19.23	19.43	19.30	20.5	0.0	
20	8QAM	1	1	19.18	19.31	19.29	20.5	0.0	
20	256QAM	1	1	19.27	19.32	19.19	20.5	0.0	
Channel				371500	376000	380500			
Frequency (MHz)				1862.5	1880	1902.5			
15	QPSK	1	1	19.24	19.42	19.28	20.5	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	19.30	19.43	19.28	20.5	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	19.21	19.42	19.22	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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	15.91	15.96	15.83			
20	PI2 BPSK	1	53	15.79	15.86	15.78	17.0	0.0	
20	PI2 BPSK	1	104	15.68	15.77	15.70			
20	PI2 BPSK	50	0	15.77	15.85	15.70	17.0	0.0	
20	PI2 BPSK	50	28	15.84	15.80	15.72	17.0	0.0	
20	PI2 BPSK	50	56	15.60	15.72	15.64	17.0	0.0	
20	PI2 BPSK	100	0	15.87	15.86	15.74			
20	QPSK	1	1	15.94	15.97	15.87			
20	QPSK	1	53	15.86	15.88	15.81	17.0	0.0	
20	QPSK	1	104	15.75	15.80	15.75			
20	QPSK	50	0	15.85	15.86	15.75	17.0	0.0	
20	QPSK	50	28	15.87	15.87	15.77	17.0	0.0	
20	QPSK	50	56	15.65	15.73	15.68	17.0	0.0	
20	QPSK	100	0	15.93	15.93	15.77			
20	8QAM	1	1	15.86	15.91	15.78	17.0	0.0	
20	8QAM	1	1	15.79	15.82	15.73	17.0	0.0	
20	256QAM	1	1	15.65	15.76	15.70	17.0	0.0	
Channel				371500	376000	380500			
Frequency (MHz)				1862.5	1880	1902.5			
15	QPSK	1	1	15.91	15.96	15.83	17.0	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1865	1880	1905			
10	QPSK	1	1	15.85	15.88	15.79	17.0	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	15.86	15.89	15.86	17.0	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				166000	167300	167600			
Frequency (MHz)				830	835.5	835			
20	PI2 BPSK	1	1	22.89	22.96	22.76			
20	PI2 BPSK	1	53	22.88	22.84	22.79	24.0	0.0	
20	PI2 BPSK	1	104	22.81	22.90	22.79			
20	PI2 BPSK	50	0	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.83	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.76	24.0	0.0	
20	PI2 BPSK	100	0	22.76	22.81	22.72			
20	QPSK	1	1	22.92	22.97	22.85			
20	QPSK	1	53	22.81	22.78	22.73	24.0	0.0	
20	QPSK	1	104	22.83	22.79	22.72			
20	QPSK	50	0	22.76	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.76	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.68			
20	8QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	8QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				165500	167300	168300			
Frequency (MHz)				831.5	835.5	831.5			
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				165000	167300	168000			
Frequency (MHz)				829	835.5	844			
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				164500	167300	168300			
Frequency (MHz)				826.5	835.5	843			
5	QPSK	1	1	22.84	22.83	22.78	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	PI2 BPSK	1	1	22.70	22.72	22.63	24.0	0.0		
20	PI2 BPSK	1	53	22.67	22.75	22.68				
20	PI2 BPSK	1	104	22.70	22.73	22.63				
20	PI2 BPSK	50	0	22.50	22.71	22.52	24.0	0.0		
20	PI2 BPSK	50	28	22.67	22.75	22.60	24.0	0.0		
20	PI2 BPSK	50	56	22.58	22.71	22.58	24.0	0.0		
20	PI2 BPSK	100	0	22.58	22.64	22.55				
20	PI2 BPSK	100	0	22.73	22.76	22.69				
20	QPSK	1	1	22.61	22.66	22.50	24.0	0.0		
20	QPSK	1	104	22.57	22.68	22.50				
20	QPSK	50	0	22.61	22.66	22.52				
20	QPSK	50	28	22.62	22.72	22.57	24.0	0.0		
20	QPSK	50	56	22.61	22.67	22.50	24.0	0.0		
20	QPSK	100	0	22.65	22.64	22.49	24.0	0.0		
20	QPSK	50	0	22.61	22.66	22.52				
20	QPSK	50	28	22.62	22.72	22.57				
20	64QAM	1	1	21.34	21.45	21.37	22.5	1.5		
20	256QAM	1	1	19.33	19.38	19.28	20.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.66	22.73	22.55	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.63	22.73	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.63	22.72	22.49	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	16.66	16.66	16.55	18.0	0.0		
40	PI2 BPSK	1	108	16.65	16.58	16.50				
40	PI2 BPSK	1	214	16.66	16.61	16.69				
40	PI2 BPSK	108	0	16.72	16.97	16.98	18.0	0.0		
40	PI2 BPSK	108	54	16.61	16.92	16.82	18.0	0.0		
40	PI2 BPSK	108	108	16.69	16.81	16.79	18.0	0.0		
40	PI2 BPSK	216	0	16.71	16.80	16.80				
40	PI2 BPSK	216	0	16.70	17.03	16.95				
40	QPSK	1	1	16.70	17.02	16.95	18.0	0.0		
40	QPSK	1	214	16.75	16.98	16.92				
40	QPSK	108	0	16.68	16.99	16.92				
40	QPSK	108	54	16.75	16.99	16.94	18.0	0.0		
40	QPSK	108	108	16.70	16.90	16.84	18.0	0.0		
40	QPSK	216	0	16.72	16.97	16.85	18.0	0.0		
40	QPSK	108	0	16.68	17.01	16.89				
40	QPSK	108	54	16.65	17.00	16.85				
40	256QAM	1	1	16.69	16.98	16.91	18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.69	16.93	16.91	18.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	16.74	17.01	16.97	18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.72	16.84	16.85	18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.65	17.02	16.90	18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.71	16.95	16.91	18.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	16.73	16.99	16.89	18.0	0.0		

n7_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)										
40	PI2 BPSK	1	1	20.99	20.96	20.97	22.0	0.0		
40	PI2 BPSK	1	108	20.99	20.92	20.90				
40	PI2 BPSK	1	214	20.99	20.95	20.97				
40	PI2 BPSK	108	0	20.87	20.96	20.96	22.0	0.0		
40	PI2 BPSK	108	54	20.88	20.98	20.96	22.0	0.0		
40	PI2 BPSK	108	108	20.92	20.92	21.01	22.0	0.0		
40	PI2 BPSK	216	0	20.90	21.02	20.98				
40	PI2 BPSK	216	0	21.00	21.07	21.03				
40	QPSK	1	1	20.89	20.96	21.01	22.0	0.0		
40	QPSK	1	108	20.89	20.96	21.01				
40	QPSK	1	214	20.97	20.97	21.01				
40	QPSK	108	0	20.89	20.98	20.99	22.0	0.0		
40	QPSK	108	54	20.95	21.05	21.00	22.0	0.0		
40	QPSK	108	108	20.91	20.95	20.93	22.0	0.0		
40	QPSK	216	0	20.91	21.02	20.92	22.0	0.0		
40	QPSK	108	0	20.91	20.94	20.91				
40	QPSK	108	54	20.87	20.93	20.90				
40	256QAM	1	1	20.38	20.46	20.43	21.0	1.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.91	21.00	20.94	22.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	20.96	21.00	20.93	22.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.94	20.99	21.01	22.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.91	21.04	21.02	22.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.98	20.96	21.00	22.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	20.93	20.96	20.99	22.0	0.0		



n12_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)										
15	PI2 BPSK	1	1	22.89	22.90	22.87				
15	PI2 BPSK	1	40	22.87	22.83	22.77	24.0	0.0		
15	PI2 BPSK	1	77	22.78	22.87	22.84				
15	PI2 BPSK	36	0	22.80	22.80	22.69	24.0	0.0		
15	PI2 BPSK	36	22	22.81	22.88	22.78	24.0	0.0		
15	PI2 BPSK	36	43	22.71	22.81	22.75	24.0	0.0		
15	PI2 BPSK	72	0	22.74	22.85	22.71				
15	QPSK	1	1	22.85	22.82	22.82				
15	QPSK	1	40	22.71	22.85	22.72	24.0	0.0		
15	QPSK	1	77	22.74	22.77	22.70				
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0		
15	QPSK	36	22	22.71	22.83	22.73	24.0	0.0		
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0		
15	QPSK	75	0	22.76	22.77	22.76				
15	16QAM	1	1	22.78	22.83	22.76	24.0	0.0		
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5		
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0		

n12_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)										
15	PI2 BPSK	1	1	23.31	23.36	23.34				
15	PI2 BPSK	1	40	23.23	23.31	23.23	24.0	0.0		
15	PI2 BPSK	1	77	23.26	23.33	23.31				
15	PI2 BPSK	36	0	23.20	23.30	23.23	24.0	0.0		
15	PI2 BPSK	36	22	23.22	23.33	23.25	24.0	0.0		
15	PI2 BPSK	36	43	23.11	23.24	23.17	24.0	0.0		
15	PI2 BPSK	72	0	23.21	23.30	23.17				
15	QPSK	1	1	23.27	23.37	23.30				
15	QPSK	1	40	23.16	23.22	23.19	24.0	0.0		
15	QPSK	1	77	23.11	23.27	23.18				
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0		
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0		
15	QPSK	36	43	23.16	23.23	23.20	24.0	0.0		
15	QPSK	75	0	23.12	23.29	23.23				
15	16QAM	1	1	23.19	23.32	23.15	24.0	0.0		
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.5		
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.18	23.32	23.23	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0		

n14_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)										
10	PI2 BPSK	1	1		22.92					
10	PI2 BPSK	1	26		22.91		24.0	0.0		
10	PI2 BPSK	1	55		22.89					
10	PI2 BPSK	25	0		22.82		24.0	0.0		
10	PI2 BPSK	25	14		22.81		24.0	0.0		
10	PI2 BPSK	25	27		22.82		24.0	0.0		
10	PI2 BPSK	50	0		22.80					
10	QPSK	1	1		22.93					
10	QPSK	1	26		22.84		24.0	0.0		
10	QPSK	1	50		22.89					
10	QPSK	25	0		22.83		24.0	0.0		
10	QPSK	25	14		22.85		24.0	0.0		
10	QPSK	25	27		22.80		24.0	0.0		
10	QPSK	50	0		22.84					
10	16QAM	1	1		22.88		24.0	0.0		
10	64QAM	1	1		22.22		23.0	1.0		
10	256QAM	1	1		20.05		21.0	3.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0		



n14_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)										
10	PI2 BPSK	1	1	21.50			23.0	0.0		
10	PI2 BPSK	1	26	21.63						
10	PI2 BPSK	1	50	21.53			23.0	0.0		
10	PI2 BPSK	25	0	21.53			23.0	0.0		
10	PI2 BPSK	25	14	21.51			23.0	0.0		
10	PI2 BPSK	25	27	21.50			23.0	0.0		
10	PI2 BPSK	50	0	21.63			23.0	0.0		
10	QPSK	1	1	21.65			23.0	0.0		
10	QPSK	1	26	21.62						
10	QPSK	1	50	21.56			23.0	0.0		
10	QPSK	25	0	21.55			23.0	0.0		
10	QPSK	25	14	21.63			23.0	0.0		
10	QPSK	25	27	21.56			23.0	0.0		
10	QPSK	50	0	21.57			23.0	0.0		
10	64QAM	1	1	21.60			23.0	0.0		
10	64QAM	1	1	21.61			23.0	0.0		
10	256QAM	1	1	19.89			21.0	2.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	21.60	21.57	21.64	23.0	0.0		

n25_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)	MFR (dB)		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	19.27	19.28	19.23				
40	PI2 BPSK	1	108	19.28	19.29	19.21	20.5	0.0		
40	PI2 BPSK	1	214	19.29	19.25	19.28				
40	PI2 BPSK	108	0	19.20	19.23	19.30	20.5	0.0		
40	PI2 BPSK	108	54	19.27	19.34	19.28	20.5	0.0		
40	PI2 BPSK	108	108	19.28	19.32	19.21	20.5	0.0		
40	PI2 BPSK	216	0	19.20	19.24	19.27				
40	QPSK	1	1	19.31	19.45	19.33				
40	QPSK	1	108	19.16	19.29	19.24	20.5	0.0		
40	QPSK	1	214	19.24	19.32	19.31				
40	QPSK	108	0	19.26	19.34	19.29	20.5	0.0		
40	QPSK	108	54	19.25	19.35	19.30	20.5	0.0		
40	QPSK	108	108	19.20	19.23	19.19	20.5	0.0		
40	QPSK	216	0	19.17	19.33	19.20				
40	16QAM	1	1	19.23	19.23	19.29	20.5	0.0		
40	64QAM	1	1	19.17	19.37	19.25	20.5	0.0		
40	256QAM	1	1	19.30	19.27	19.30	20.5	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	19.17	19.29	19.31	20.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.23	19.28	19.30	20.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	19.21	19.23	19.25	20.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.16	19.37	19.23	20.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.30	19.35	19.31	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.24	19.30	19.22	20.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	19.19	19.28	19.24	20.5	0.0		

n25_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)										
40	PI2 BPSK	1	1	15.49	15.58	15.50				
40	PI2 BPSK	1	108	15.46	15.56	15.48	17.0	0.0		
40	PI2 BPSK	1	214	15.42	15.53	15.44				
40	PI2 BPSK	108	0	15.41	15.50	15.49	17.0	0.0		
40	PI2 BPSK	108	54	15.42	15.44	15.47	17.0	0.0		
40	PI2 BPSK	108	108	15.41	15.42	15.45	17.0	0.0		
40	PI2 BPSK	216	0	15.47	15.50	15.50				
40	QPSK	1	1	15.53	15.60	15.52				
40	QPSK	1	108	15.48	15.57	15.49	17.0	0.0		
40	QPSK	1	214	15.52	15.54	15.46				
40	QPSK	108	0	15.49	15.55	15.44	17.0	0.0		
40	QPSK	108	54	15.50	15.57	15.47	17.0	0.0		
40	QPSK	108	108	15.46	15.44	15.43	17.0	0.0		
40	QPSK	216	0	15.48	15.54	15.42				
40	16QAM	1	1	15.45	15.57	15.50	17.0	0.0		
40	64QAM	1	1	15.44	15.50	15.47	17.0	0.0		
40	256QAM	1	1	15.42	15.52	15.45	17.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	15.43	15.59	15.44	17.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.48	15.57	15.49	17.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	15.50	15.54	15.47	17.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.44	15.57	15.51	17.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.49	15.57	15.48	17.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.51	15.50	15.44	17.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	15.45	15.53	15.48	17.0	0.0		



n26_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)	MSR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.83	22.87			
20	PI2 BPSK	1	104	22.86	22.78	22.88	24.0	0.0	
20	PI2 BPSK	50	0	22.85	22.85	22.85			
20	PI2 BPSK	50	26	22.92	22.90	22.94	24.0	0.0	
20	PI2 BPSK	50	56	22.87	22.86	22.86			
20	PI2 BPSK	100	0	22.86	22.89	22.81	24.0	0.0	
20	QPSK	1	1	22.95	22.95	22.92			
20	QPSK	1	53	22.96	22.81	22.86	24.0	0.0	
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	26	22.87	22.85	22.88			
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.85	22.79	22.83			
20	16QAM	1	1	22.96	22.85	22.85	24.0	0.0	
20	64QAM	1	1	22.17	22.22	22.23			
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.92	22.80	22.80	24.0	0.0	
Channel									
Frequency (MHz)									

n26_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)	MSR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.86	22.88	22.87	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.78	22.80			
20	PI2 BPSK	1	104	22.90	22.78	22.81	24.0	0.0	
20	PI2 BPSK	50	0	22.89	22.87	22.85			
20	PI2 BPSK	50	26	22.80	22.85	22.82	24.0	0.0	
20	PI2 BPSK	50	56	22.85	22.80	22.81			
20	PI2 BPSK	100	0	22.90	22.92	22.85	24.0	0.0	
20	QPSK	1	1	22.95	22.97	22.90			
20	QPSK	1	53	22.95	22.92	22.92	24.0	0.0	
20	QPSK	1	104	22.94	22.87	22.83			
20	QPSK	50	0	22.85	22.81	22.88	24.0	0.0	
20	QPSK	50	26	22.90	22.85	22.95			
20	QPSK	50	56	22.83	22.87	22.81	24.0	0.0	
20	QPSK	100	0	22.85	22.84	22.85			
20	16QAM	1	1	22.93	22.87	22.80	24.0	0.0	
20	64QAM	1	1	21.56	21.56	21.63			
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.88	22.86	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.85	22.87	22.90	24.0	0.0	
Channel									
Frequency (MHz)									



n30_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				460000				
Frequency (MHz)				2315				
10	PI2 BPSK	1	1	17.51			19.5	0.0
10	PI2 BPSK	1	26	17.58				
10	PI2 BPSK	1	50	17.40			19.5	0.0
10	PI2 BPSK	25	0	17.50				
10	PI2 BPSK	25	14	17.47			19.5	0.0
10	PI2 BPSK	25	27	17.44			19.5	0.0
10	PI2 BPSK	50	0	17.40				
10	QPSK	1	1	17.50			19.5	0.0
10	QPSK	1	26	17.58				
10	QPSK	1	50	17.46			19.5	0.0
10	QPSK	25	0	17.55				
10	QPSK	25	14	17.57			19.5	0.0
10	QPSK	25	27	17.45			19.5	0.0
10	QPSK	50	0	17.55				
10	16QAM	1	1	17.55			19.5	0.0
10	16QAM	1	1	17.51				
10	256QAM	1	1	17.45			19.5	0.0
Channel				461000	460000	460000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2307.5	2315	2312.5		
5	QPSK	1	1	17.57	17.53	17.52	19.5	0.0

n30_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)	MFR (dB)
Channel				460000				
Frequency (MHz)				2315				
10	PI2 BPSK	1	1	23.02			24.0	0.0
10	PI2 BPSK	1	26	23.00				
10	PI2 BPSK	1	50	22.99			24.0	0.0
10	PI2 BPSK	25	0	22.96				
10	PI2 BPSK	25	14	23.01			24.0	0.0
10	PI2 BPSK	25	27	22.97			24.0	0.0
10	PI2 BPSK	50	0	22.97				
10	QPSK	1	1	23.03			24.0	0.0
10	QPSK	1	26	22.97				
10	QPSK	1	50	22.94			24.0	0.0
10	QPSK	25	0	22.97				
10	QPSK	25	14	22.98			24.0	0.0
10	QPSK	25	27	22.92			24.0	0.0
10	QPSK	50	0	22.93				
10	16QAM	1	1	22.91			23.0	1.0
10	16QAM	1	1	22.44				
10	256QAM	1	1	20.25			21.0	3.0
Channel				461000	460000	460000	Tune-up limit (dBm)	MFR (dB)
Frequency (MHz)				2307.5	2315	2312.5		
5	QPSK	1	1	22.97	22.99	22.96	24.0	0.0



n66_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	19.95	19.98	19.95				
40	PI2 BPSK	1	108	19.89	19.97	19.88	21.0	0.0		
40	PI2 BPSK	1	214	19.95	19.90	19.88				
40	PI2 BPSK	108	0	19.95	19.99	19.94	21.0	0.0		
40	PI2 BPSK	108	54	19.88	20.00	19.88	21.0	0.0		
40	PI2 BPSK	108	108	19.87	20.03	19.88				
40	PI2 BPSK	216	0	19.91	19.95	19.89	21.0	0.0		
40	QPSK	1	1	19.95	20.05	20.02				
40	QPSK	1	108	19.85	20.02	19.89	21.0	0.0		
40	QPSK	1	214	19.88	20.04	19.97				
40	QPSK	108	0	19.85	19.98	19.89	21.0	0.0		
40	QPSK	108	54	19.95	20.00	19.95	21.0	0.0		
40	QPSK	108	108	19.91	19.97	19.93	21.0	0.0		
40	QPSK	216	0	19.92	20.02	19.97				
40	64QAM	1	1	19.97	20.03	20.00	21.0	0.0		
40	64QAM	1	1	19.92	20.00	20.00	21.0	0.0		
40	256QAM	1	1	19.86	20.01	19.89	21.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	19.85	19.95	20.01	21.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.93	19.97	19.97	21.0	0.0		
Channel										
Frequency (MHz)										
34500	QPSK	34900	35300	34500	34900	35300	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	19.97	20.03	19.89	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.92	19.96	19.93	21.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.92	19.93	19.87	21.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.93	19.99	19.87	21.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	19.92	19.90	19.89	21.0	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)										
40	PI2 BPSK	1	1	16.26	16.30	16.32				
40	PI2 BPSK	1	108	16.18	16.22	16.12	17.0	0.0		
40	PI2 BPSK	1	214	16.17	16.36	16.22				
40	PI2 BPSK	108	0	16.21	16.36	16.25	17.0	0.0		
40	PI2 BPSK	108	54	16.21	16.29	16.30	17.0	0.0		
40	PI2 BPSK	108	108	16.21	16.30	16.34				
40	PI2 BPSK	216	0	16.20	16.32	16.20	17.0	0.0		
40	QPSK	1	1	16.35	16.42	16.35				
40	QPSK	1	108	16.23	16.29	16.18	17.0	0.0		
40	QPSK	1	214	16.25	16.38	16.32				
40	QPSK	108	0	16.23	16.37	16.22	17.0	0.0		
40	QPSK	108	54	16.25	16.39	16.35	17.0	0.0		
40	QPSK	108	108	16.24	16.36	16.22	17.0	0.0		
40	QPSK	216	0	16.22	16.37	16.28				
40	64QAM	1	1	16.25	16.32	16.33	17.0	0.0		
40	64QAM	1	1	16.27	16.28	16.30	17.0	0.0		
40	256QAM	1	1	16.24	16.31	16.32	17.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	16.31	16.32	16.27	17.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.30	16.41	16.35	17.0	0.0		
Channel										
Frequency (MHz)										
34450	QPSK	34900	35300	34450	34900	35300	Tune-up limit (dBm)	MPR (dB)		
25	QPSK	1	1	16.26	16.33	16.30	17.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.25	16.36	16.29	17.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.30	16.35	16.27	17.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.25	16.34	16.29	17.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	16.25	16.35	16.31	17.0	0.0		

n70_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)										
15	PI2 BPSK	1	1		20.68					
15	PI2 BPSK	1	40		20.78		22.0	0.0		
15	PI2 BPSK	1	77		20.72					
15	PI2 BPSK	36	0		20.75		22.0	0.0		
15	PI2 BPSK	36	22		20.73		22.0	0.0		
15	PI2 BPSK	36	43		20.67		22.0	0.0		
15	PI2 BPSK	75	0		20.69					
15	QPSK	1	1		20.82					
15	QPSK	1	40		20.73		22.0	0.0		
15	QPSK	1	77		20.73					
15	QPSK	36	0		20.68		22.0	0.0		
15	QPSK	36	22		20.70		22.0	0.0		
15	QPSK	36	43		20.67		22.0	0.0		
15	QPSK	75	0		20.75					
15	64QAM	1	1		20.78		22.0	0.0		
15	64QAM	1	1		20.74		22.0	0.0		
15	256QAM	1	1		20.35		21.5	0.5		
Channel										
Frequency (MHz)										
34500	QPSK	34900	34900	34500	34900	34900	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	20.81	20.77	20.68	22.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	20.70	20.69	20.81	22.0	0.0		



n70_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)									
15	PI2 BPSK	1	1	17.38			18.0	0.0	
15	PI2 BPSK	1	40	17.37					
15	PI2 BPSK	1	77	17.27					
15	PI2 BPSK	35	0	17.37			18.0	0.0	
15	PI2 BPSK	35	22	17.38			18.0	0.0	
15	PI2 BPSK	35	43	17.21			18.0	0.0	
15	PI2 BPSK	70	0	17.39					
15	QPSK	1	1	17.45					
15	QPSK	1	40	17.45			18.0	0.0	
15	QPSK	1	77	17.34					
15	QPSK	35	0	17.44			18.0	0.0	
15	QPSK	35	22	17.45			18.0	0.0	
15	QPSK	35	43	17.26			18.0	0.0	
15	QPSK	70	0	17.47					
15	64QAM	1	1	17.44			18.0	0.0	
15	64QAM	1	1	17.39			18.0	0.0	
15	256QAM	1	1	17.28			18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.42	17.45	17.38	18.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	17.40	17.41	17.35	18.0	0.0	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.09	23.03			
30	PI2 BPSK	1	80	23.01	23.04	22.92	24.0	0.0	
30	PI2 BPSK	1	158	23.00	23.08	23.01			
30	PI2 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	PI2 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	PI2 BPSK	80	80	22.91	23.02	22.92	24.0	0.0	
30	PI2 BPSK	160	0	22.95	22.99	22.98			
30	QPSK	1	1	22.95	22.90	23.01			
30	QPSK	1	80	22.94	22.98	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97			
30	QPSK	80	0	22.89	22.93	22.91	24.0	0.0	
30	QPSK	80	40	22.91	22.96	22.93	24.0	0.0	
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.95	22.96			
30	16QAM	1	1	22.90	22.93	22.93	24.0	0.0	
30	64QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.93	22.97	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.90	22.99	22.92	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.95	22.92	22.93	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.13	23.13			
30	PI2 BPSK	1	80	23.15	23.16	23.10	24.0	0.0	
30	PI2 BPSK	1	158	23.18	23.24	23.20			
30	PI2 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	PI2 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	PI2 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	PI2 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09			
30	QPSK	80	0	23.09	23.09	23.11	24.0	0.0	
30	QPSK	80	40	23.13	23.19	23.17	24.0	0.0	
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06			
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0	
30	64QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_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									
				518004	518000	518996			
Frequency (MHz)				2590.02	2595	2599.98			
40	Pl2 BPSK	1	1	17.09	17.18	17.14			
40	Pl2 BPSK	1	53	17.12	17.22	17.19	19.0	0.0	
40	Pl2 BPSK	1	104	17.12	17.11	17.17			
40	Pl2 BPSK	50	0	17.07	17.17	17.20	18.5	0.5	
40	Pl2 BPSK	50	28	17.01	17.20	17.14	19.0	0.0	
40	Pl2 BPSK	50	56	17.06	17.10	17.09	18.5	0.5	
40	Pl2 BPSK	100	0	17.12	17.15	17.16			
40	QPSK	1	1	17.16	17.23	17.22			
40	QPSK	1	53	17.04	17.22	17.11	19.0	0.0	
40	QPSK	1	104	17.07	17.13	17.08			
40	QPSK	50	0	17.05	17.09	17.12			
40	QPSK	50	28	17.16	17.19	17.15	19.0	0.0	
40	QPSK	50	56	17.10	17.14	17.12			
40	QPSK	100	0	17.11	17.14	17.11	18.0	1.0	
40	16QAM	1	1	17.04	17.11	17.15	18.0	1.0	
40	16QAM	1	1	17.04	17.13	17.16	18.5	2.5	
40	256QAM	1	1	17.02	17.17	17.08	14.5	4.5	
Channel									
				517002	518000	509998	Tune-up limit	MPR	
Frequency (MHz)				2585.01	2595	2604.99	(dBm)	(dB)	
30	QPSK	1	1	17.13	17.20	17.10	19.0	0.0	
Channel									
				518000	518000	520000	Tune-up limit	MPR	
Frequency (MHz)				2580	2595	2610	(dBm)	(dB)	
20	QPSK	1	1	17.03	17.14	17.17	19.0	0.0	
Channel									
				518002	518000	520000	Tune-up limit	MPR	
Frequency (MHz)				2577.51	2595	2612.49	(dBm)	(dB)	
15	QPSK	1	1	17.07	17.18	17.14	19.0	0.0	
Channel									
				518004	518000	522998	Tune-up limit	MPR	
Frequency (MHz)				2619.02	2605	2614.98	(dBm)	(dB)	
10	QPSK	1	1	17.08	17.16	17.08	19.0	0.0	

n38_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									
				518004	518000	518996			
Frequency (MHz)				2590.02	2595	2599.98			
40	Pl2 BPSK	1	1	21.30	21.45	21.39			
40	Pl2 BPSK	1	53	21.33	21.41	21.41	22.5	0.0	
40	Pl2 BPSK	1	104	21.33	21.42	21.28			
40	Pl2 BPSK	50	0	21.30	21.46	21.38	22.5	0.0	
40	Pl2 BPSK	50	28	21.38	21.47	21.38	22.5	0.0	
40	Pl2 BPSK	50	56	21.37	21.47	21.32			
40	Pl2 BPSK	100	0	21.30	21.35	21.35	22.5	0.0	
40	QPSK	1	1	21.44	21.49	21.42			
40	QPSK	1	53	21.36	21.46	21.40	22.5	0.0	
40	QPSK	1	104	21.39	21.42	21.41			
40	QPSK	50	0	21.33	21.40	21.32			
40	QPSK	50	28	21.38	21.42	21.34	22.5	0.0	
40	QPSK	50	56	21.30	21.40	21.28			
40	QPSK	100	0	21.30	21.40	21.38	22.5	0.0	
40	16QAM	1	1	21.31	21.46	21.30	22.5	0.0	
40	16QAM	1	1	21.39	21.40	21.29	22.5	0.0	
40	256QAM	1	1	20.91	20.94	20.92	21.5	1.0	
Channel									
				517002	518000	509998	Tune-up limit	MPR	
Frequency (MHz)				2585.01	2595	2604.99	(dBm)	(dB)	
30	QPSK	1	1	21.35	21.35	21.38	22.5	0.0	
Channel									
				518000	518000	520000	Tune-up limit	MPR	
Frequency (MHz)				2580	2595	2610	(dBm)	(dB)	
20	QPSK	1	1	21.39	21.36	21.34	22.5	0.0	
Channel									
				518002	518000	520000	Tune-up limit	MPR	
Frequency (MHz)				2577.51	2595	2612.49	(dBm)	(dB)	
15	QPSK	1	1	21.36	21.37	21.33	22.5	0.0	
Channel									
				518004	518000	522998	Tune-up limit	MPR	
Frequency (MHz)				2619.02	2605	2614.98	(dBm)	(dB)	
10	QPSK	1	1	21.29	21.47	21.27	22.5	0.0	

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									
				506002	518998	528000			
Frequency (MHz)				2546.01	2592.99	2630			
100	Pl2 BPSK	1	1	17.17	17.22	17.14			
100	Pl2 BPSK	1	137	17.15	17.30	17.17	19.0	0.0	
100	Pl2 BPSK	1	271	17.25	17.25	17.18			
100	Pl2 BPSK	135	0	17.18	17.20	17.22	19.0	0.0	
100	Pl2 BPSK	135	69	17.26	17.25	17.14	19.0	0.0	
100	Pl2 BPSK	135	138	17.18	17.34	17.21			
100	Pl2 BPSK	270	0	17.23	17.29	17.22	19.0	0.0	
100	QPSK	1	1	17.30	17.36	17.28			
100	QPSK	1	137	17.28	17.23	17.17	19.0	0.0	
100	QPSK	1	271	17.20	17.28	17.15			
100	QPSK	135	0	17.19	17.25	17.15			
100	QPSK	135	69	17.26	17.24	17.22	19.0	0.0	
100	QPSK	270	0	17.15	17.28	17.21	19.0	0.0	
100	16QAM	1	1	17.20	17.32	17.14	19.0	0.0	
100	16QAM	1	1	17.23	17.30	17.25	19.0	0.0	
100	256QAM	1	1	17.24	17.34	17.23	19.0	0.0	
Channel									
				506000	518998	509998	Tune-up limit	MPR	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
80	QPSK	1	1	17.23	17.24	17.16	19.0	0.0	
Channel									
				507004	518998	520998	Tune-up limit	MPR	
Frequency (MHz)				2536.02	2592.99	2649.98	(dBm)	(dB)	
80	QPSK	1	1	17.22	17.34	17.26	19.0	0.0	
Channel									
				508000	518998	531998	Tune-up limit	MPR	
Frequency (MHz)				2530	2592.99	2654.98	(dBm)	(dB)	
70	QPSK	1	1	17.23	17.27	17.15	19.0	0.0	
Channel									
				508000	518998	531998	Tune-up limit	MPR	
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)	
60	QPSK	1	1	17.23	17.27	17.15	19.0	0.0	
Channel									
				509004	518998	532998	Tune-up limit	MPR	
Frequency (MHz)				2526.02	2592.99	2654.98	(dBm)	(dB)	
60	QPSK	1	1	17.19	17.22	17.25	19.0	0.0	
Channel									
				509000	518998	530000	Tune-up limit	MPR	
Frequency (MHz)				2526.01	2592.99	2654.98	(dBm)	(dB)	
50	QPSK	1	1	17.29	17.32	17.19	19.0	0.0	
Channel									
				509002	518998	530000	Tune-up limit	MPR	
Frequency (MHz)				2516.01	2592.99	2650	(dBm)	(dB)	
40	QPSK	1	1	17.23	17.29	17.27	19.0	0.0	
Channel									
				509000	518998	530998	Tune-up limit	MPR	
Frequency (MHz)				2511	2592.99	2654.98	(dBm)	(dB)	
30	QPSK	1	1	17.29	17.27	17.15	19.0	0.0	
Channel									
				509004	518998	530998	Tune-up limit	MPR	
Frequency (MHz)				2506.02	2592.99	2659.99	(dBm)	(dB)	
20	QPSK	1	1	17.16	17.31	17.27	19.0	0.0	
Channel									
				509000	518998	536498	Tune-up limit	MPR	
Frequency (MHz)				2506.05	2592.99	2662.48	(dBm)	(dB)	
15	QPSK	1	1	17.22	17.21	17.22	19.0	0.0	
Channel									
				509002	518998	537000	Tune-up limit	MPR	
Frequency (MHz)				2501.01	2592.99	2663	(dBm)	(dB)	
10	QPSK	1	1	17.20	17.21	17.15	19.0	0.0	



n41_Ant 1_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Hip. Ch. Freq.		
Channel				506002	518098	526000		
Frequency (MHz)				2541.01	2592.99	2640		
100	PI2 BPSK	1	1	17.17	17.22	17.14		
100	PI2 BPSK	1	137	17.15	17.30	17.17	19.0	0.0
100	PI2 BPSK	1	271	17.26	17.26	17.18		
100	PI2 BPSK	135	0	17.18	17.20	17.22	19.0	0.0
100	PI2 BPSK	135	69	17.26	17.25	17.14	19.0	0.0
100	PI2 BPSK	135	138	17.18	17.34	17.21		
100	PI2 BPSK	270	0	17.23	17.29	17.22	19.0	0.0
100	QPSK	1	1	17.20	17.25	17.20		
100	QPSK	1	137	17.29	17.20	17.17	19.0	0.0
100	QPSK	1	271	17.20	17.28	17.15		
100	QPSK	135	0	17.19	17.25	17.15		
100	QPSK	135	69	17.26	17.24	17.22	19.0	0.0
100	QPSK	135	138	17.27	17.22	17.18		
100	QPSK	270	0	17.15	17.26	17.21	19.0	0.0
100	16QAM	1	1	17.20	17.32	17.14	19.0	0.0
100	16QAM	1	1	17.23	17.30	17.25	19.0	0.0
100	256QAM	1	1	17.24	17.34	17.23	19.0	0.0
Channel				506000	518098	526096	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.25	17.34	17.18	19.0	0.0
Channel				507204	518098	526098	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.22	17.34	17.28	19.0	0.0
Channel				505200	518098	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	17.23	17.27	17.15	19.0	0.0
Channel				502000	518098	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.19	17.22	17.25	19.0	0.0
Channel				504204	518098	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	17.29	17.32	17.19	19.0	0.0
Channel				503002	518098	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.23	17.29	17.27	19.0	0.0
Channel				502200	518098	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.20	17.27	17.15	19.0	0.0
Channel				507004	518098	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.16	17.31	17.27	19.0	0.0
Channel				500700	518098	538498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2493.15	2592.99	2683.48		
15	QPSK	1	1	17.22	17.21	17.22	19.0	0.0
Channel				506002	518098	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	17.20	17.21	17.15	19.0	0.0



n41_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				506002	518598	526600		
Frequency (MHz)				2548.01	2592.99	2640		
100	PI2 BPSK	1	1	20.31	20.44	20.29		
100	PI2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0
100	PI2 BPSK	1	271	20.21	20.27	20.22		
100	PI2 BPSK	135	0	20.16	20.28	20.20	22.0	0.0
100	PI2 BPSK	135	69	20.15	20.21	20.11	22.0	0.0
100	PI2 BPSK	135	138	20.11	20.23	20.21	22.0	0.0
100	PI2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0
100	QPSK	1	1	20.34	20.49	20.34		
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0
100	QPSK	1	271	20.05	20.24	20.19		
100	QPSK	135	0	20.15	20.31	20.13		
100	QPSK	135	69	20.08	20.38	20.28	22.0	0.0
100	QPSK	135	138	20.05	20.11	20.08		
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0
100	64QAM	1	1	18.92	20.04	20.06	21.5	0.5
100	256QAM	1	1	18.02	18.26	18.11	20.0	2.0
Channel				506000	518598	526606	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	20.22	20.41	20.20	22.0	0.0
Channel				507204	518598	526608	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2646.99		
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0
Channel				503002	518598	531990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2692.99	2655		
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2692.99	2658.98		
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0
Channel				505002	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	20.42	20.45	20.33	22.0	0.0
Channel				502000	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0
Channel				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0

n41_Ant 2_HPUE								
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				506002	518598	526600		
Frequency (MHz)				2548.01	2592.99	2640		
100	PI2 BPSK	1	1	21.80	21.84	22.01		
100	PI2 BPSK	1	137	21.92	22.02	21.91	23.5	0.0
100	PI2 BPSK	1	271	21.96	21.92	21.91		
100	PI2 BPSK	135	0	21.97	22.00	21.95	23.5	0.0
100	PI2 BPSK	135	69	21.91	21.97	21.93	23.5	0.0
100	PI2 BPSK	135	138	21.89	22.00	22.00	23.5	0.0
100	PI2 BPSK	270	0	21.96	22.04	21.91	23.5	0.0
100	QPSK	1	1	22.00	22.05	22.02		
100	QPSK	1	137	21.97	22.04	21.96	23.5	0.0
100	QPSK	1	271	21.90	22.01	21.88		
100	QPSK	135	0	21.96	21.96	21.97		
100	QPSK	135	69	21.90	22.03	21.88	23.5	0.0
100	QPSK	135	138	21.89	22.02	21.97		
100	QPSK	270	0	21.91	21.95	21.29	23.0	0.5
100	16QAM	1	1	21.88	21.83	21.68	23.0	0.5
100	64QAM	1	1	20.91	20.92	20.28	21.5	2.0
100	256QAM	1	1	18.12	18.21	18.19	19.5	4.0
Channel				506000	518598	526606	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.81	22.00	21.81	23.5	0.0
Channel				507204	518598	526608	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2646.99		
80	QPSK	1	1	21.85	21.90	21.87	23.5	0.0
Channel				503002	518598	531990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2692.99	2655		
70	QPSK	1	1	21.97	21.94	21.94	23.5	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2692.99	2658.98		
60	QPSK	1	1	21.99	21.92	21.94	23.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	21.93	22.00	21.92	23.5	0.0
Channel				505002	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.97	22.04	21.88	23.5	0.0
Channel				502000	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.93	21.99	21.89	23.5	0.0
Channel				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
20	QPSK	1	1	21.96	22.04	21.96	23.5	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	21.96	21.90	21.90	23.5	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	21.90	21.90	21.90	23.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	21.18	21.20	21.10		
100	PI2 BPSK	1	137	21.20	21.21	21.16	22.5	0.0
100	PI2 BPSK	1	271	21.18	21.15	21.24		
100	PI2 BPSK	135	0	21.14	21.19	21.12	22.5	0.0
100	PI2 BPSK	135	69	21.13	21.20	21.17	22.5	0.0
100	PI2 BPSK	135	138	21.18	21.22	21.12	22.5	0.0
100	PI2 BPSK	270	0	21.20	21.15	21.15		
100	QPSK	1	1	21.22	21.20	21.25		
100	QPSK	1	137	21.13	21.15	21.18	22.5	0.0
100	QPSK	1	271	21.05	21.20	21.21		
100	QPSK	135	0	21.21	21.24	21.13		
100	QPSK	135	69	21.24	21.26	21.22	22.5	0.0
100	QPSK	135	138	21.18	21.12	21.18		
100	QPSK	270	0	21.11	21.22	21.20	22.5	0.0
100	16QAM	1	1	21.13	21.26	21.14	22.5	0.0
100	64QAM	1	1	21.18	21.29	21.22	22.5	0.0
100	256QAM	1	1	18.68	18.79	18.73	20.5	2.0
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	21.15	21.20	21.17	22.5	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2646.99	(dBm)	(dB)
80	QPSK	1	1	21.19	21.18	21.23	22.5	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	21.07	21.29	21.23	22.5	0.0
Channel				502000	518598	531995	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98	(dBm)	(dB)
60	QPSK	1	1	21.21	21.25	21.23	22.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	21.10	21.15	21.13	22.5	0.0
Channel				503002	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	21.12	21.21	21.21	22.5	0.0
Channel				502201	518598	535995	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	21.20	21.28	21.23	22.5	0.0
Channel				507204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	21.21	21.15	21.13	22.5	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.0	2592.99	2682.98	(dBm)	(dB)
15	QPSK	1	1	21.11	21.20	21.15	22.5	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2682	(dBm)	(dB)
10	QPSK	1	1	21.13	21.24	21.17	22.5	0.0

n41_Ant 5_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	21.18	21.20	21.10		
100	PI2 BPSK	1	137	21.20	21.21	21.16	22.5	0.0
100	PI2 BPSK	1	271	21.18	21.15	21.24		
100	PI2 BPSK	135	0	21.14	21.19	21.12	22.5	0.0
100	PI2 BPSK	135	69	21.13	21.20	21.17	22.5	0.0
100	PI2 BPSK	135	138	21.18	21.22	21.12	22.5	0.0
100	PI2 BPSK	270	0	21.20	21.15	21.15		
100	QPSK	1	1	21.22	21.20	21.25		
100	QPSK	1	137	21.13	21.15	21.18	22.5	0.0
100	QPSK	1	271	21.05	21.20	21.21		
100	QPSK	135	0	21.21	21.24	21.13		
100	QPSK	135	69	21.24	21.26	21.22	22.5	0.0
100	QPSK	135	138	21.18	21.12	21.18		
100	QPSK	270	0	21.11	21.22	21.20	22.5	0.0
100	16QAM	1	1	21.13	21.26	21.14	22.5	0.0
100	64QAM	1	1	21.18	21.29	21.22	22.5	0.0
100	256QAM	1	1	18.68	18.79	18.73	21.5	1.0
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	21.15	21.20	21.17	22.5	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2646.99	(dBm)	(dB)
80	QPSK	1	1	21.19	21.18	21.23	22.5	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	21.07	21.29	21.23	22.5	0.0
Channel				502000	518598	531995	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98	(dBm)	(dB)
60	QPSK	1	1	21.21	21.25	21.23	22.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	21.10	21.15	21.13	22.5	0.0
Channel				503002	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	21.12	21.21	21.21	22.5	0.0
Channel				502201	518598	535995	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	21.20	21.28	21.23	22.5	0.0
Channel				507204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	21.21	21.15	21.13	22.5	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.0	2592.99	2682.98	(dBm)	(dB)
15	QPSK	1	1	21.11	21.20	21.15	22.5	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2682	(dBm)	(dB)
10	QPSK	1	1	21.13	21.24	21.17	22.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Hgh. Ch. Freq.		
Channel				506202	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.97	21.01	20.91		
100	PI2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PI2 BPSK	1	271	20.93	21.11	20.89		
100	PI2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PI2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PI2 BPSK	135	138	20.76	21.01	20.89	22.5	0.0
100	PI2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.08		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	16QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506200	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.00	21.04	20.91	22.5	0.0
Channel				508200	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				509200	518598	531966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.09	21.11	20.90	22.5	0.0
Channel				505202	518598	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.00	20.99	20.92	22.5	0.0
Channel				506200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518598	538498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.5	2592.99	2682.48		
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				506202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611.01	2592.99	2685		
10	QPSK	1	1	21.07	21.03	20.94	22.5	0.0



n41_Ant 6_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Hip. Ch. Freq.		
Channel				506002	518998	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.84	22.74	22.67		
100	PI2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0
100	PI2 BPSK	1	271	22.71	22.93	22.61		
100	PI2 BPSK	135	0	22.26	22.14	22.28	24.0	0.5
100	PI2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0
100	PI2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5
100	PI2 BPSK	270	0	22.26	22.19	22.28		
100	QPSK	1	1	22.81	22.88	22.85		
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0
100	QPSK	1	271	22.61	22.48	22.63		
100	QPSK	135	0	21.73	21.75	21.76		
100	QPSK	135	69	22.61	22.67	22.61	24.5	0.0
100	QPSK	135	138	21.62	21.71	21.71		
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0
100	64QAM	1	1	20.48	20.64	20.48	22.0	2.5
100	256QAM	1	1	18.25	18.56	18.31	20.0	4.5
Channel				506000	518998	526000		
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	22.83	22.88	22.79	24.5	0.0
Channel				507204	518998	526000		
Frequency (MHz)				2536.02	2592.99	2648.98		
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0
Channel				508200	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0
Channel				509200	518998	531000		
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0
Channel				504204	518998	532000		
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	22.89	22.94	22.83	24.5	0.0
Channel				505202	518998	535000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.89	22.94	22.79	24.5	0.0
Channel				506200	518998	535000		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0
Channel				507204	518998	535000		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0
Channel				507000	518998	538400		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0
Channel				506202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel				506002	518598	526000			
Frequency (MHz)				2549.01	2592.99	2640			
100	PI2 BPSK	1	1	21.53	21.53	21.45			
100	PI2 BPSK	1	137	21.40	21.54	21.40	22.5	0.0	
100	PI2 BPSK	1	271	21.52	21.53	21.41			
100	PI2 BPSK	135	0	21.41	21.49	21.40	22.5	0.0	
100	PI2 BPSK	135	69	21.43	21.48	21.43	22.5	0.0	
100	PI2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0	
100	PI2 BPSK	270	0	21.40	21.50	21.37			
100	QPSK	1	1	21.52	21.52	21.52			
100	QPSK	1	137	21.45	21.49	21.45	22.5	0.0	
100	QPSK	1	271	21.46	21.58	21.37			
100	QPSK	135	0	21.40	21.50	21.39			
100	QPSK	135	69	21.43	21.48	21.43	22.5	0.0	
100	QPSK	135	138	21.48	21.52	21.40			
100	QPSK	270	0	21.44	21.54	21.43	22.5	0.0	
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0	
100	64QAM	1	1	21.50	21.57	21.51	22.5	0.0	
100	256QAM	1	1	21.43	21.57	21.50	22.5	0.0	
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.44	21.54	21.48	22.5	0.0	
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2692.99	2649.99			
80	QPSK	1	1	21.51	21.56	21.48	22.5	0.0	
Channel				2631.01	2692.99	2655	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				21.48	21.47	21.48	22.5	0.0	
70	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2692.99	2659.98			
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2692.99	2654.99			
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0	
Channel				503002	518598	535000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2692.99	2670			
40	QPSK	1	1	21.40	21.43	21.42	22.5	0.0	
Channel				502200	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2692.99	2674.98			
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0	
Channel				500204	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2692.99	2679.99			
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.15	2692.99	2682.48			
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0	
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2692.99	2685			
10	QPSK	1	1	21.51	21.49	21.49	22.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel				506002	518598	526000			
Frequency (MHz)				2549.01	2592.99	2640			
100	PI2 BPSK	1	1	21.53	21.53	21.45			
100	PI2 BPSK	1	137	21.40	21.54	21.40	22.5	0.0	
100	PI2 BPSK	1	271	21.52	21.53	21.41			
100	PI2 BPSK	135	0	21.41	21.49	21.40	22.5	0.0	
100	PI2 BPSK	135	69	21.43	21.48	21.43	22.5	0.0	
100	PI2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0	
100	PI2 BPSK	270	0	21.40	21.50	21.37			
100	QPSK	1	1	21.52	21.52	21.52			
100	QPSK	1	137	21.45	21.49	21.45	22.5	0.0	
100	QPSK	1	271	21.46	21.58	21.37			
100	QPSK	135	0	21.40	21.50	21.39			
100	QPSK	135	69	21.43	21.48	21.43	22.5	0.0	
100	QPSK	135	138	21.48	21.52	21.40			
100	QPSK	270	0	21.44	21.54	21.43	22.5	0.0	
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0	
100	64QAM	1	1	21.50	21.57	21.51	22.5	0.0	
100	256QAM	1	1	21.43	21.57	21.50	22.5	0.0	
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.44	21.54	21.48	22.5	0.0	
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2692.99	2649.99			
80	QPSK	1	1	21.51	21.56	21.48	22.5	0.0	
Channel				2631.01	2692.99	2655	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				21.48	21.47	21.48	22.5	0.0	
70	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2692.99	2659.98			
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2692.99	2654.99			
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0	
Channel				503002	518598	535000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2692.99	2670			
40	QPSK	1	1	21.40	21.43	21.42	22.5	0.0	
Channel				502200	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2692.99	2674.98			
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0	
Channel				500204	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2692.99	2679.99			
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2503.15	2692.99	2682.48			
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0	
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2501.01	2692.99	2685			
10	QPSK	1	1	21.51	21.49	21.49	22.5	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MFR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq	
Channel				636000	641666	645332	
Frequency (MHz)				3370	3024.99	3079.98	
40	PI2 BPSK	1	1	20.81	20.87	20.89	
40	PI2 BPSK	1	53	20.82	20.95	20.86	22.0
40	PI2 BPSK	1	104	20.92	20.90	20.89	
40	PI2 BPSK	50	0	20.82	20.99	20.95	22.0
40	PI2 BPSK	50	26	20.84	20.95	20.87	22.0
40	PI2 BPSK	50	56	20.85	20.91	20.82	
40	PI2 BPSK	100	0	20.90	20.92	20.84	22.0
40	QPSK	1	1	20.82	20.95	20.87	
40	QPSK	1	53	20.82	20.95	20.85	22.0
40	QPSK	1	104	20.85	20.87	20.95	
40	QPSK	50	0	20.86	20.90	20.84	
40	QPSK	50	26	20.85	20.92	20.85	22.0
40	QPSK	50	56	20.85	20.91	20.82	
40	QPSK	100	0	20.84	20.90	20.82	22.0
40	16QAM	1	1	20.92	20.88	20.88	22.0
40	64QAM	1	1	20.92	20.99	20.87	22.0
40	256QAM	1	1	20.92	20.81	20.91	21.0
Channel				637668	641666	645666	
Frequency (MHz)				3055.02	3024.99	3084.99	
30	QPSK	1	1	20.84	20.86	20.85	22.0
Channel				637234	641666	646000	
Frequency (MHz)				3560.01	3024.99	3690	
20	QPSK	1	1	20.81	20.96	20.87	22.0
Channel				637000	641666	645332	
Frequency (MHz)				3555	3024.99	3694.98	
10	QPSK	1	1	20.82	20.94	20.87	22.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MFR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq	
Channel				636000	641666	645332	
Frequency (MHz)				3370	3024.99	3079.98	
40	PI2 BPSK	1	1	15.14	15.19	15.14	
40	PI2 BPSK	1	53	15.18	15.15	15.04	16.5
40	PI2 BPSK	1	104	15.19	15.17	15.10	
40	PI2 BPSK	50	0	15.09	15.08	15.16	16.5
40	PI2 BPSK	50	26	15.16	15.10	15.08	16.5
40	PI2 BPSK	50	56	15.06	15.10	15.04	
40	PI2 BPSK	100	0	15.13	15.10	15.02	16.5
40	QPSK	1	1	15.20	15.23	15.17	
40	QPSK	1	53	15.14	15.10	15.07	16.5
40	QPSK	1	104	15.19	15.09	15.13	
40	QPSK	50	0	15.08	15.15	15.06	
40	QPSK	50	26	15.15	15.20	15.17	16.5
40	QPSK	50	56	15.06	15.13	15.11	
40	QPSK	100	0	15.08	15.17	15.07	16.5
40	16QAM	1	1	15.18	15.12	15.09	16.5
40	64QAM	1	1	15.11	15.12	15.15	16.5
40	256QAM	1	1	15.14	15.17	15.11	16.5
Channel				637668	641666	645666	
Frequency (MHz)				3055.02	3024.99	3084.99	
30	QPSK	1	1	15.14	15.09	15.02	16.5
Channel				637234	641666	646000	
Frequency (MHz)				3560.01	3024.99	3690	
20	QPSK	1	1	15.11	15.17	15.13	16.5
Channel				637000	641666	645332	
Frequency (MHz)				3555	3024.99	3694.98	
10	QPSK	1	1	15.06	15.09	15.03	16.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3269	3623.99	3673.98	
40	PI2 BPSK	1	1	17.49	17.59	17.42	
40	PI2 BPSK	1	53	17.52	17.49	17.41	18.5
40	PI2 BPSK	1	104	17.42	17.49	17.46	
40	PI2 BPSK	50	0	17.43	17.52	17.47	18.5
40	PI2 BPSK	50	26	17.48	17.56	17.48	18.5
40	PI2 BPSK	50	56	17.41	17.57	17.41	
40	PI2 BPSK	100	0	17.52	17.49	17.46	18.5
40	QPSK	1	1	17.53	17.50	17.51	
40	QPSK	1	53	17.46	17.58	17.51	18.5
40	QPSK	1	104	17.44	17.52	17.53	
40	QPSK	50	0	17.45	17.54	17.43	
40	QPSK	50	26	17.48	17.59	17.41	18.5
40	QPSK	50	56	17.46	17.45	17.44	
40	QPSK	100	0	17.38	17.54	17.43	18.5
40	16QAM	1	1	17.49	17.56	17.46	18.5
40	16QAM	1	1	17.50	17.48	17.49	18.5
40	16QAM	1	1	16.96	16.97	16.72	19.0
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.98	
30	QPSK	1	1	17.59	17.51	17.50	18.5
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	17.48	17.51	17.52	18.5
Channel				638000	641666	645332	
Frequency (MHz)				3855	3624.99	3694.98	
10	QPSK	1	1	17.49	17.58	17.46	18.5

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3270	3624.99	3673.98	
40	PI2 BPSK	1	1	21.88	22.05	21.89	
40	PI2 BPSK	1	53	21.89	21.96	21.88	23.0
40	PI2 BPSK	1	104	21.86	22.05	21.82	
40	PI2 BPSK	50	0	21.96	21.95	21.82	23.0
40	PI2 BPSK	50	26	21.93	22.03	21.92	23.0
40	PI2 BPSK	50	56	21.88	22.02	21.88	
40	PI2 BPSK	100	0	21.88	21.98	21.83	23.0
40	QPSK	1	1	22.01	22.07	21.96	
40	QPSK	1	53	22.00	22.06	21.94	23.0
40	QPSK	1	104	22.00	22.04	21.88	
40	QPSK	50	0	21.92	22.00	21.82	
40	QPSK	50	26	21.95	22.02	21.94	23.0
40	QPSK	50	56	21.87	21.79	21.69	
40	QPSK	100	0	21.53	21.68	21.56	23.0
40	16QAM	1	1	21.99	22.00	21.96	23.0
40	16QAM	1	1	20.42	20.46	20.34	21.5
40	16QAM	1	1	19.30	19.45	19.31	19.5
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.98	
30	QPSK	1	1	21.93	21.92	21.85	23.0
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	21.91	21.92	21.90	23.0
Channel				638000	641666	645332	
Frequency (MHz)				3855	3624.99	3694.98	
10	QPSK	1	1	21.96	21.97	21.92	23.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel								
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	18.19	18.20	18.11		
100	Pl2 BPSK	1	137	18.08	18.19	18.22	19.0	0.0
100	Pl2 BPSK	1	271	18.17	18.20	18.12		
100	Pl2 BPSK	136	0	18.14	18.27	18.16	19.0	0.0
100	Pl2 BPSK	136	69	18.15	18.16	18.09		0.0
100	Pl2 BPSK	136	138	18.08	18.13	18.18		0.0
100	Pl2 BPSK	270	0	18.09	18.22	18.17	19.0	0.0
100	QPSK	1	1	18.20	18.28	18.24		
100	QPSK	1	137	18.15	18.27	18.13	19.0	0.0
100	QPSK	1	271	18.17	18.13	18.20		
100	QPSK	136	0	18.13	18.24	18.21		
100	QPSK	136	69	18.15	18.26	18.22	19.0	0.0
100	QPSK	136	138	18.09	18.17	18.16		
100	QPSK	270	0	18.05	18.23	18.16	19.0	0.0
100	16QAM	1	1	18.16	18.13	18.16	19.0	0.0
100	16QAM	1	1	18.08	18.17	18.15	19.0	0.0
100	16QAM	1	1	18.08	18.27	18.10	19.0	0.0
Channel								
Frequency (MHz)				64868	65000	66332	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.08	18.24	18.11	19.0	0.0
Channel								
Frequency (MHz)				3470.02	3840	3924.98	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.15	18.15	18.17	19.0	0.0
Channel								
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.05	18.13	18.15	19.0	0.0
Channel								
Frequency (MHz)				64868	65000	66332	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.19	18.24	18.13	19.0	0.0
Channel								
Frequency (MHz)				64834	65000	65966	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.13	18.15	18.16	19.0	0.0
Channel								
Frequency (MHz)				64800	65000	66000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.17	18.25	18.12	19.0	0.0
Channel								
Frequency (MHz)				64766	65000	66332	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.18	18.20	18.14	19.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3929.99	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.10	18.13	18.17	19.0	0.0
Channel								
Frequency (MHz)				64718	65000	66482	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.08	18.24	18.23	19.0	0.0
Channel								
Frequency (MHz)				64700	65000	66500	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.18	18.15	18.23	19.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel								
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	18.19	18.20	18.11		
100	Pl2 BPSK	1	137	18.08	18.19	18.22	19.0	0.0
100	Pl2 BPSK	1	271	18.17	18.20	18.12		
100	Pl2 BPSK	136	0	18.14	18.27	18.16	19.0	0.0
100	Pl2 BPSK	136	69	18.15	18.16	18.09		0.0
100	Pl2 BPSK	136	138	18.08	18.13	18.18		0.0
100	Pl2 BPSK	270	0	18.09	18.22	18.17	19.0	0.0
100	QPSK	1	1	18.20	18.28	18.24		
100	QPSK	1	137	18.15	18.27	18.13	19.0	0.0
100	QPSK	1	271	18.17	18.13	18.20		
100	QPSK	136	0	18.13	18.24	18.21		
100	QPSK	136	69	18.15	18.26	18.22	19.0	0.0
100	QPSK	136	138	18.09	18.17	18.16		
100	QPSK	270	0	18.05	18.23	18.16	19.0	0.0
100	16QAM	1	1	18.16	18.13	18.16	19.0	0.0
100	16QAM	1	1	18.08	18.17	18.15	19.0	0.0
100	16QAM	1	1	18.08	18.27	18.10	19.0	0.0
Channel								
Frequency (MHz)				64868	65000	66332	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.08	18.24	18.11	19.0	0.0
Channel								
Frequency (MHz)				3470.01	3840	3929.99	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.15	18.15	18.17	19.0	0.0
Channel								
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.05	18.13	18.15	19.0	0.0
Channel								
Frequency (MHz)				64868	65000	66332	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.19	18.24	18.13	19.0	0.0
Channel								
Frequency (MHz)				64834	65000	65966	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.13	18.15	18.16	19.0	0.0
Channel								
Frequency (MHz)				64800	65000	66000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.17	18.25	18.12	19.0	0.0
Channel								
Frequency (MHz)				64766	65000	66332	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.18	18.20	18.14	19.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3929.99	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.10	18.13	18.17	19.0	0.0
Channel								
Frequency (MHz)				64718	65000	66482	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.08	18.24	18.23	19.0	0.0
Channel								
Frequency (MHz)				64700	65000	66500	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.18	18.15	18.23	19.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel								
Frequency (MHz)				3470.01	3840	3924.98		
100	Pl2 BPSK	1	1	18.19				
100	Pl2 BPSK	1	137	18.09			19.0	0.0
100	Pl2 BPSK	1	271	18.16				
100	Pl2 BPSK	136	0	18.19			19.0	0.0
100	Pl2 BPSK	136	69	18.09				0.0
100	Pl2 BPSK	136	138	18.08				0.0
100	Pl2 BPSK	270	0	18.16			19.0	0.0
100	QPSK	1	1	18.23				
100	QPSK	1	137	18.09			19.0	0.0
100	QPSK	1	271	18.10				
100	QPSK	136	0	18.09				
100	QPSK	136	69	18.21			19.0	0.0
100	QPSK	136	138	18.11				
100	QPSK	270	0	18.17			19.0	0.0
100	16QAM	1	1	18.12			19.0	0.0
100	16QAM	1	1	18.14			19.0	0.0
100	16QAM	1	1	18.14			19.0	0.0
Channel								
Frequency (MHz)				63800	63332	63868	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	18.03	18.15	18.14	19.0	0.0
Channel								
Frequency (MHz)				63868	63332	63900	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	18.12	18.12	18.16	19.0	0.0
Channel								
Frequency (MHz)				3485.01	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	18.11	18.22	18.05	19.0	0.0
Channel								
Frequency (MHz)				63200	63332	63466	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	18.05	18.12	18.07	19.0	0.0
Channel								
Frequency (MHz)				63168	63332	63500	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	18.11	18.14	18.16	19.0	0.0
Channel								
Frequency (MHz)				63134	63332	63362	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	18.12	18.15	18.12	19.0	0.0
Channel								
Frequency (MHz)				3486	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	18.12	18.15	18.09	19.0	0.0
Channel								
Frequency (MHz)				3500.02	3499.98	3500	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	18.01	18.16	18.14	19.0	0.0
Channel								
Frequency (MHz)				63900	63332	63616	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	18.13	18.22	18.11	19.0	0.0
Channel								
Frequency (MHz)				63834	63332	63632	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	18.02	18.08	18.05	19.0	0.0



Par27Q n77_Ant 4_HPUE									
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	18.19	18.19	18.19	19.0	0.0	
100	PI2 BPSK	1	137	18.09	18.09	18.09	19.0	0.0	
100	PI2 BPSK	1	271	18.16	18.16	18.16	19.0	0.0	
100	PI2 BPSK	135	0	18.19	18.19	18.19	19.0	0.0	
100	PI2 BPSK	135	69	18.09	18.09	18.09	19.0	0.0	
100	PI2 BPSK	135	138	18.08	18.08	18.08	19.0	0.0	
100	PI2 BPSK	270	0	18.16	18.16	18.16	19.0	0.0	
100	QPSK	1	1	18.23	18.23	18.23	19.0	0.0	
100	QPSK	1	137	18.09	18.09	18.09	19.0	0.0	
100	QPSK	1	271	18.10	18.10	18.10	19.0	0.0	
100	QPSK	135	0	18.09	18.09	18.09	19.0	0.0	
100	QPSK	135	69	18.21	18.21	18.21	19.0	0.0	
100	QPSK	135	138	18.11	18.11	18.11	19.0	0.0	
100	QPSK	270	0	18.17	18.17	18.17	19.0	0.0	
100	16QAM	1	1	18.12	18.12	18.12	19.0	0.0	
100	64QAM	1	1	18.14	18.14	18.14	19.0	0.0	
100	256QAM	1	1	18.14	18.14	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.03	18.15	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.02	18.12	18.16	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.11	18.22	18.05	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.05	18.12	18.07	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.11	18.14	18.16	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.12	18.15	18.16	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.15	18.15	18.09	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.01	18.16	18.14	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.13	18.22	18.11	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.02	18.00	18.05	19.0	0.0	

Par27Q n77_Ant 7									
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	15.36	15.55	15.37	17.0	0.0	
100	PI2 BPSK	1	137	15.43	15.49	15.37	17.0	0.0	
100	PI2 BPSK	1	271	15.36	15.57	15.43	17.0	0.0	
100	PI2 BPSK	135	0	15.44	15.44	15.38	17.0	0.0	
100	PI2 BPSK	135	69	15.43	15.46	15.43	17.0	0.0	
100	PI2 BPSK	135	138	15.36	15.46	15.43	17.0	0.0	
100	PI2 BPSK	270	0	15.35	15.54	15.37	17.0	0.0	
100	QPSK	1	1	15.20	15.58	15.52	17.0	0.0	
100	QPSK	1	137	15.44	15.52	15.44	17.0	0.0	
100	QPSK	1	271	15.40	15.58	15.51	17.0	0.0	
100	QPSK	135	0	15.40	15.53	15.44	17.0	0.0	
100	QPSK	135	69	15.49	15.53	15.44	17.0	0.0	
100	QPSK	135	138	15.37	15.50	15.39	17.0	0.0	
100	QPSK	270	0	15.42	15.47	15.38	17.0	0.0	
100	16QAM	1	1	15.49	15.47	15.42	17.0	0.0	
100	64QAM	1	1	15.37	15.55	15.46	17.0	0.0	
100	256QAM	1	1	15.43	15.47	15.43	17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.39	15.51	15.47	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.46	15.52	15.38	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.37	15.42	15.41	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.42	15.55	15.38	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.49	15.43	15.49	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.37	15.53	15.40	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.45	15.44	15.49	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.37	15.55	15.39	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.40	15.55	15.42	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.44	15.47	15.41	17.0	0.0	

Par27Q n77_Ant 7_HPUE									
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	15.36	15.55	15.37	17.0	0.0	
100	PI2 BPSK	1	137	15.43	15.49	15.37	17.0	0.0	
100	PI2 BPSK	1	271	15.36	15.57	15.43	17.0	0.0	
100	PI2 BPSK	135	0	15.44	15.44	15.38	17.0	0.0	
100	PI2 BPSK	135	69	15.43	15.46	15.43	17.0	0.0	
100	PI2 BPSK	135	138	15.36	15.46	15.43	17.0	0.0	
100	PI2 BPSK	270	0	15.35	15.54	15.37	17.0	0.0	
100	QPSK	1	1	15.20	15.58	15.52	17.0	0.0	
100	QPSK	1	137	15.44	15.52	15.44	17.0	0.0	
100	QPSK	1	271	15.40	15.58	15.51	17.0	0.0	
100	QPSK	135	0	15.40	15.53	15.44	17.0	0.0	
100	QPSK	135	69	15.49	15.53	15.44	17.0	0.0	
100	QPSK	135	138	15.37	15.50	15.39	17.0	0.0	
100	QPSK	270	0	15.42	15.47	15.38	17.0	0.0	
100	16QAM	1	1	15.49	15.47	15.42	17.0	0.0	
100	64QAM	1	1	15.37	15.55	15.46	17.0	0.0	
100	256QAM	1	1	15.43	15.47	15.43	17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.39	15.51	15.47	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.46	15.52	15.38	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.37	15.52	15.41	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.42	15.55	15.38	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.49	15.43	15.49	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.37	15.53	15.40	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.45	15.44	15.49	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.37	15.55	15.39	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.40	15.55	15.42	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.44	15.47	15.41	17.0	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)								
100	PI2 BPSK	1	1	15.50	3499.98			
100	PI2 BPSK	1	137	15.34			17.0	0.0
100	PI2 BPSK	1	271	15.51				
100	PI2 BPSK	135	0	15.31			17.0	0.0
100	PI2 BPSK	135	69	15.41			17.0	0.0
100	PI2 BPSK	135	138	15.42			17.0	0.0
100	PI2 BPSK	270	0	15.48				
100	QPSK	1	1	15.52				
100	QPSK	1	137	15.43			17.0	0.0
100	QPSK	1	271	15.45				
100	QPSK	135	0	15.42				
100	QPSK	135	69	15.46			17.0	0.0
100	QPSK	135	138	15.41			17.0	0.0
100	QPSK	270	0	15.32			17.0	0.0
100	16QAM	1	1	15.36			17.0	0.0
100	64QAM	1	1	15.49			17.0	0.0
100	256QAM	1	1	15.32			17.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.43	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.43	3499.98	3510	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.32	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.46	3499.98	3518.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.35	3499.98	3523.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.34	3499.98	3529.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.34	3499.98	3534.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.40	3499.98	3539.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.34	3499.98	3542.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.41	3499.98	3544.98	Tune-up limit (dBm)	MPR (dB)

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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)								
100	PI2 BPSK	1	1	15.50	3499.98			
100	PI2 BPSK	1	137	15.34			17.0	0.0
100	PI2 BPSK	1	271	15.51				
100	PI2 BPSK	135	0	15.31			17.0	0.0
100	PI2 BPSK	135	69	15.41			17.0	0.0
100	PI2 BPSK	135	138	15.42			17.0	0.0
100	PI2 BPSK	270	0	15.48				
100	QPSK	1	1	15.52				
100	QPSK	1	137	15.43			17.0	0.0
100	QPSK	1	271	15.39				
100	QPSK	135	0	15.42				
100	QPSK	135	69	15.46			17.0	0.0
100	QPSK	135	138	15.41			17.0	0.0
100	QPSK	270	0	15.32			17.0	0.0
100	16QAM	1	1	15.36			17.0	0.0
100	64QAM	1	1	15.49			17.0	0.0
100	256QAM	1	1	15.32			17.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.43	3499.98	3504.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.39	3499.98	3510	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.32	3499.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.46	3499.98	3518.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.35	3499.98	3523.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.40	3499.98	3529.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.34	3499.98	3534.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.40	3499.98	3539.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.34	3499.98	3542.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.41	3499.98	3544.98	Tune-up limit (dBm)	MPR (dB)

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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)								
100	PI2 BPSK	1	1	15.37	3440	3440		
100	PI2 BPSK	1	137	15.37	15.52	15.48		
100	PI2 BPSK	1	271	15.39	15.51	15.41	17.0	0.0
100	PI2 BPSK	135	0	15.38	15.48	15.54	17.0	0.0
100	PI2 BPSK	135	69	15.46	15.57	15.49	17.0	0.0
100	PI2 BPSK	135	138	15.39	15.45	15.46	17.0	0.0
100	PI2 BPSK	270	0	15.41	15.46	15.53		
100	QPSK	1	1	15.51	15.50	15.55		
100	QPSK	1	137	15.47	15.59	15.40	17.0	0.0
100	QPSK	1	271	15.39	15.45	15.41		
100	QPSK	135	0	15.39	15.52	15.50		
100	QPSK	135	69	15.46	15.56	15.53	17.0	0.0
100	QPSK	135	138	15.37	15.45	15.46		
100	QPSK	270	0	15.38	15.59	15.44	17.0	0.0
100	16QAM	1	1	15.46	15.56	15.48	17.0	0.0
100	64QAM	1	1	15.49	15.58	15.53	17.0	0.0
100	256QAM	1	1	15.38	15.56	15.41	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.45	15.52	15.50	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.50	15.54	15.43	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.43	15.47	15.48	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.41	15.51	15.51	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.40	15.47	15.42	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.47	15.58	15.42	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.38	15.53	15.48	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.43	15.54	15.40	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.38	15.56	15.44	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.40	15.52	15.42	Tune-up limit (dBm)	MPR (dB)



Par270 n77_Ant 8_HPUE										
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	16.95	17.05	17.07				
100	PI2 BPSK	1	137	17.04	17.00	17.07	18.5	0.0		
100	PI2 BPSK	1	271	16.95	17.02	17.04				
100	PI2 BPSK	135	0	16.97	17.14	17.01	18.5	0.0		
100	PI2 BPSK	135	69	17.05	17.14	16.96	18.5	0.0		
100	PI2 BPSK	135	138	17.05	17.09	17.07				
100	PI2 BPSK	270	0	16.95	17.06	16.99	18.5	0.0		
100	QPSK	1	1	17.05	17.15	17.10				
100	QPSK	1	137	16.94	17.08	16.96	18.5	0.0		
100	QPSK	1	271	16.98	17.03	16.98				
100	QPSK	135	0	17.00	17.05	17.02				
100	QPSK	135	69	17.05	17.14	17.05	18.5	0.0		
100	QPSK	135	138	16.94	17.12	17.03				
100	QPSK	270	0	17.05	17.13	16.97	18.5	0.0		
100	16QAM	1	1	17.07	17.06	17.08	18.5	0.0		
100	64QAM	1	1	17.03	17.01	16.96	18.5	0.0		
100	256QAM	1	1	16.95	17.04	17.03	18.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	17.05	17.05	17.07	18.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.07	17.05	17.03	18.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	16.99	17.06	17.06	18.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.98	17.13	16.98	18.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	17.03	17.08	16.96	18.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	17.03	17.08	16.96	18.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	17.07	17.06	16.98	18.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	17.03	17.00	16.95	18.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.93	17.07	17.04	18.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.90	17.00	17.00	18.5	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)										
100	PI2 BPSK	1	1	14.83						
100	PI2 BPSK	1	137	14.80			16.5	0.0		
100	PI2 BPSK	1	271	14.91						
100	PI2 BPSK	135	0	14.81			16.5	0.0		
100	PI2 BPSK	135	69	14.85			16.5	0.0		
100	PI2 BPSK	135	138	14.91						
100	PI2 BPSK	270	0	14.88			16.5	0.0		
100	QPSK	1	1	14.85						
100	QPSK	1	137	14.89			16.5	0.0		
100	QPSK	1	271	14.87						
100	QPSK	135	0	14.82						
100	QPSK	135	69	14.89			16.5	0.0		
100	QPSK	135	138	14.84						
100	QPSK	270	0	14.87			16.5	0.0		
100	16QAM	1	1	14.92			16.5	0.0		
100	64QAM	1	1	14.83			16.5	0.0		
100	256QAM	1	1	14.93			16.0	0.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	14.80	14.80	14.79	16.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.82	14.89	14.81	16.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.83	14.87	14.83	16.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	14.82	14.81	14.81	16.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	14.75	14.83	14.79	16.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.80	14.84	14.81	16.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.87	14.81	14.80	16.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.82	14.83	14.79	16.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.83	14.82	14.89	16.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	14.82	14.80	14.83	16.5	0.0		

Par270 n77_Ant 8_HPUE										
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	16.95						
100	PI2 BPSK	1	137	17.00			18.5	0.0		
100	PI2 BPSK	1	271	16.96						
100	PI2 BPSK	135	0	16.98			18.5	0.0		
100	PI2 BPSK	135	69	16.97			18.5	0.0		
100	PI2 BPSK	135	138	17.00						
100	PI2 BPSK	270	0	16.88			18.5	0.0		
100	QPSK	1	1	17.03						
100	QPSK	1	137	16.88			18.5	0.0		
100	QPSK	1	271	16.91						
100	QPSK	135	0	16.92						
100	QPSK	135	69	17.00			18.5	0.0		
100	QPSK	135	138	16.98						
100	QPSK	270	0	16.96			18.5	0.0		
100	16QAM	1	1	16.95			18.5	0.0		
100	64QAM	1	1	17.00			18.5	0.0		
100	256QAM	1	1	16.98			18.0	0.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	16.83	16.80	17.01	18.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.94	16.89	17.00	18.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	16.92	17.00	16.94	18.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.88	16.98	16.90	18.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	16.92	16.97	16.98	18.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.91	16.94	17.01	18.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.90	16.95	16.94	18.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.87	17.02	16.88	18.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.90	17.02	16.93	18.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.89	17.01	16.99	18.5	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)				3750	3840	3930		
100	Pi2 BPSK	1	1	17.74	17.79	17.72		
100	Pi2 BPSK	1	137	17.68	17.76	17.73	19.0	0.0
100	Pi2 BPSK	1	271	17.65	17.69	17.66		
100	Pi2 BPSK	136	0	17.71	17.73	17.61	19.0	0.0
100	Pi2 BPSK	136	69	17.78	17.70	17.65	19.0	0.0
100	Pi2 BPSK	136	138	17.66	17.70	17.70	19.0	0.0
100	Pi2 BPSK	270	0	17.68	17.68	17.65		
100	QPSK	1	1	17.80	17.82	17.70		
100	QPSK	1	137	17.66	17.76	17.64	19.0	0.0
100	QPSK	1	271	17.79	17.67	17.75		
100	QPSK	136	0	17.68	17.69	17.65		
100	QPSK	136	69	17.72	17.76	17.68	19.0	0.0
100	QPSK	136	138	17.70	17.67	17.62		
100	QPSK	270	0	17.74	17.77	17.68	19.0	0.0
100	16QAM	1	1	17.78	17.71	17.61	19.0	0.0
100	16QAM	1	1	17.69	17.77	17.65	19.0	0.0
100	256QAM	1	1	17.66	17.81	17.61	19.0	0.0
Channel								
Frequency (MHz)				3745.02	3840	3934.98	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	17.73	17.72	17.62	19.0	0.0
Channel								
Frequency (MHz)				3740.01	3840	3939.99	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	17.68	17.71	17.67	19.0	0.0
Channel								
Frequency (MHz)				3735	3840	3945	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	1	17.75	17.81	17.64	19.0	0.0
Channel								
Frequency (MHz)				3730	3840	3950	Tune-up limit (dB)	MPR (dB)
60	QPSK	1	1	17.79	17.70	17.73	19.0	0.0
Channel								
Frequency (MHz)				3725.01	3840	3954.99	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	1	17.72	17.73	17.65	19.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	1	17.71	17.81	17.67	19.0	0.0
Channel								
Frequency (MHz)				3715.02	3840.00	3964.98	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	17.73	17.69	17.72	19.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3969.99	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	17.71	17.67	17.66	19.0	0.0
Channel								
Frequency (MHz)				3705.02	3840	3974.98	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	17.74	17.79	17.75	19.0	0.0
Channel								
Frequency (MHz)				3700	3840	3979.99	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	17.77	17.70	17.62	19.0	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)				3750	3840	3930		
100	Pi2 BPSK	1	1	19.63	19.65	19.59		
100	Pi2 BPSK	1	137	19.58	19.63	19.68	21.0	0.0
100	Pi2 BPSK	1	271	19.55	19.68	19.59		
100	Pi2 BPSK	136	0	19.66	19.60	19.68	21.0	0.0
100	Pi2 BPSK	136	69	19.61	19.65	19.62	21.0	0.0
100	Pi2 BPSK	136	138	19.56	19.65	19.62	21.0	0.0
100	Pi2 BPSK	270	0	19.68	19.73	19.62		
100	QPSK	1	1	19.70	19.75	19.72		
100	QPSK	1	137	19.62	19.69	19.63	21.0	0.0
100	QPSK	1	271	19.68	19.72	19.80		
100	QPSK	136	0	19.67	19.69	19.69		
100	QPSK	136	69	19.66	19.71	19.70	21.0	0.0
100	QPSK	136	138	19.66	19.80	19.66		
100	QPSK	270	0	19.61	19.62	19.58	21.0	0.0
100	16QAM	1	1	19.67	19.73	19.67	21.0	0.0
100	16QAM	1	1	19.55	19.72	19.69	21.0	0.0
100	256QAM	1	1	19.11	19.16	19.14	20.5	0.5
Channel								
Frequency (MHz)				3745.02	3840	3934.98	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	19.56	19.63	19.59	21.0	0.0
Channel								
Frequency (MHz)				3740.01	3840	3939.99	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	19.68	19.67	19.62	21.0	0.0
Channel								
Frequency (MHz)				3735	3840	3945	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	1	19.66	19.67	19.70	21.0	0.0
Channel								
Frequency (MHz)				3730	3840	3950	Tune-up limit (dB)	MPR (dB)
60	QPSK	1	1	19.67	19.71	19.71	21.0	0.0
Channel								
Frequency (MHz)				3725.01	3840	3954.99	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	1	19.59	19.68	19.64	21.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	1	19.66	19.62	19.68	21.0	0.0
Channel								
Frequency (MHz)				3715.02	3840.00	3964.98	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	19.64	19.66	19.58	21.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3969.99	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	19.55	19.65	19.69	21.0	0.0
Channel								
Frequency (MHz)				3705.02	3840	3974.98	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	19.61	19.69	19.69	21.0	0.0
Channel								
Frequency (MHz)				3700	3840	3979.99	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	19.61	19.71	19.62	21.0	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)				3495.98				
100	Pi2 BPSK	1	1	17.87				
100	Pi2 BPSK	1	137	17.75			19.0	0.0
100	Pi2 BPSK	1	271	17.76				
100	Pi2 BPSK	136	0	17.73			19.0	0.0
100	Pi2 BPSK	136	69	17.76			19.0	0.0
100	Pi2 BPSK	136	138	17.83			19.0	0.0
100	Pi2 BPSK	270	0	17.85				
100	QPSK	1	1	17.88				
100	QPSK	1	137	17.76			19.0	0.0
100	QPSK	1	271	17.80				
100	QPSK	136	0	17.73				
100	QPSK	136	69	17.81			19.0	0.0
100	QPSK	136	138	17.74				
100	QPSK	270	0	17.75			19.0	0.0
100	16QAM	1	1	17.87			19.0	0.0
100	16QAM	1	1	17.77			19.0	0.0
100	256QAM	1	1	17.82			19.0	0.0
Channel								
Frequency (MHz)				3495.98	3495.98	3504.98	Tune-up limit (dB)	MPR (dB)
90	QPSK	1	1	17.77	17.75	17.81	19.0	0.0
Channel								
Frequency (MHz)				3490.99	3495.98	3500.98	Tune-up limit (dB)	MPR (dB)
80	QPSK	1	1	17.67	17.84	17.86	19.0	0.0
Channel								
Frequency (MHz)				3485.01	3490.98	3514.98	Tune-up limit (dB)	MPR (dB)
70	QPSK	1	1	17.79	17.76	17.86	19.0	0.0
Channel								
Frequency (MHz)				3480.02	3495.98	3519.98	Tune-up limit (dB)	MPR (dB)
60	QPSK	1	1	17.75	17.87	17.87	19.0	0.0
Channel								
Frequency (MHz)				3475.03	3495.98	3524.98	Tune-up limit (dB)	MPR (dB)
50	QPSK	1	1	17.77	17.81	17.82	19.0	0.0
Channel								
Frequency (MHz)				3470.04	3495.98	3529.98	Tune-up limit (dB)	MPR (dB)
40	QPSK	1	1	17.80	17.76	17.83	19.0	0.0
Channel								
Frequency (MHz)				3465.05	3495.98	3534.98	Tune-up limit (dB)	MPR (dB)
30	QPSK	1	1	17.76	17.73	17.87	19.0	0.0
Channel								
Frequency (MHz)				3460.06	3495.98	3539.98	Tune-up limit (dB)	MPR (dB)
20	QPSK	1	1	17.74	17.78	17.82	19.0	0.0
Channel								
Frequency (MHz)				3455.07	3495.98	3544.98	Tune-up limit (dB)	MPR (dB)
15	QPSK	1	1	17.87	17.81	17.76	19.0	0.0
Channel								
Frequency (MHz)				3450.08	3495.98	3549.98	Tune-up limit (dB)	MPR (dB)
10	QPSK	1	1	17.85	17.76	17.87	19.0	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)								
100	Pi2 BPSK	1	1	3499.98	3533.32	3566.66		
100	Pi2 BPSK	1	137	19.78	19.78	19.78	21.0	0.0
100	Pi2 BPSK	1	271	19.81	19.81	19.81		
100	Pi2 BPSK	136	0	19.78	19.78	19.78	21.0	0.0
100	Pi2 BPSK	136	69	19.72	19.72	19.72	21.0	0.0
100	Pi2 BPSK	136	138	19.69	19.69	19.69	21.0	0.0
100	Pi2 BPSK	270	0	19.69	19.69	19.69		
100	QPSK	1	1	19.83	19.83	19.83	21.0	0.0
100	QPSK	1	137	19.76	19.76	19.76		
100	QPSK	1	271	19.68	19.68	19.68		
100	QPSK	136	0	19.78	19.78	19.78		
100	QPSK	136	69	19.79	19.79	19.79	21.0	0.0
100	QPSK	136	138	19.68	19.68	19.68		
100	QPSK	270	0	19.68	19.68	19.68	21.0	0.0
100	16QAM	1	1	19.79	19.79	19.79	21.0	0.0
100	16QAM	1	1	19.73	19.73	19.73	21.0	0.0
100	16QAM	1	1	19.17	19.17	19.17	20.5	0.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.71	19.82	19.78	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3499.02	3499.98	3500		
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.71	19.68	19.82	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.71	19.77	19.74	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.69	19.70	19.74	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.71	19.70	19.77	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.71	19.70	19.77	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.71	19.68	19.81	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.70	19.72	19.72	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.82	19.78	19.81	21.0	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)								
100	Pi2 BPSK	1	1	3750	3750	3750		
100	Pi2 BPSK	1	137	18.04	18.04	18.04	19.0	0.0
100	Pi2 BPSK	1	271	18.11	18.11	18.11		
100	Pi2 BPSK	136	0	18.08	18.08	18.08	19.0	0.0
100	Pi2 BPSK	136	69	17.98	17.98	17.98	19.0	0.0
100	Pi2 BPSK	136	138	18.10	18.10	18.10	19.0	0.0
100	Pi2 BPSK	270	0	18.07	18.07	18.07		
100	QPSK	1	1	18.12	18.12	18.12	19.0	0.0
100	QPSK	1	137	18.00	18.00	18.00		
100	QPSK	1	271	18.11	18.11	18.11		
100	QPSK	136	0	18.04	18.04	18.04		
100	QPSK	136	69	18.06	18.06	18.06	19.0	0.0
100	QPSK	136	138	17.98	17.98	17.98		
100	QPSK	270	0	18.00	18.00	18.00	19.0	0.0
100	16QAM	1	1	17.97	17.97	17.97	19.0	0.0
100	16QAM	1	1	18.07	18.07	18.07	19.0	0.0
100	16QAM	1	1	17.97	17.97	17.97	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.09	18.11	18.09	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3749.02	3750	3750.98		
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.97	18.04	18.05	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.97	18.04	17.98	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.00	18.05	18.01	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.08	17.98	18.04	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.10	17.99	18.00	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.08	17.98	18.07	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.09	18.07	18.06	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.00	18.07	18.03	19.0	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)								
100	Pi2 BPSK	1	1	3750	3750	3750		
100	Pi2 BPSK	1	137	18.04	18.04	18.04	19.0	0.0
100	Pi2 BPSK	1	271	18.11	18.11	18.11		
100	Pi2 BPSK	136	0	18.08	18.08	18.08	19.0	0.0
100	Pi2 BPSK	136	69	17.98	17.98	17.98	19.0	0.0
100	Pi2 BPSK	136	138	18.10	18.10	18.10	19.0	0.0
100	Pi2 BPSK	270	0	18.07	18.07	18.07		
100	QPSK	1	1	18.12	18.12	18.12	19.0	0.0
100	QPSK	1	137	18.00	18.00	18.00		
100	QPSK	1	271	18.11	18.11	18.11		
100	QPSK	136	0	18.04	18.04	18.04		
100	QPSK	136	69	18.06	18.06	18.06	19.0	0.0
100	QPSK	136	138	17.98	17.98	17.98		
100	QPSK	270	0	18.00	18.00	18.00	19.0	0.0
100	16QAM	1	1	17.97	17.97	17.97	19.0	0.0
100	16QAM	1	1	18.07	18.07	18.07	19.0	0.0
100	16QAM	1	1	17.97	17.97	17.97	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.09	18.11	18.09	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3749.02	3750	3750.98		
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.97	18.04	18.05	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.97	18.04	17.98	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.00	18.05	18.01	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.08	17.98	18.04	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.10	17.99	18.00	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.08	17.98	18.07	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.09	18.07	18.06	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.00	18.07	18.03	19.0	0.0



Part27Q 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)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.99	18.00	18.01	19.0	0.0	
100	PI2 BPSK	1	137	18.07	18.07	18.07	19.0	0.0	
100	PI2 BPSK	1	271	18.06	18.06	18.06	19.0	0.0	
100	PI2 BPSK	135	0	17.95	17.95	17.95	19.0	0.0	
100	PI2 BPSK	135	69	18.00	18.00	18.00	19.0	0.0	
100	PI2 BPSK	135	138	17.99	17.99	17.99	19.0	0.0	
100	PI2 BPSK	270	0	18.04	18.04	18.04	19.0	0.0	
100	QPSK	1	1	18.10	18.10	18.10	19.0	0.0	
100	QPSK	1	137	18.01	18.01	18.01	19.0	0.0	
100	QPSK	1	271	17.97	17.97	17.97	19.0	0.0	
100	QPSK	135	0	17.95	17.95	17.95	19.0	0.0	
100	QPSK	135	69	18.00	18.00	18.00	19.0	0.0	
100	QPSK	135	138	17.97	17.97	17.97	19.0	0.0	
100	QPSK	270	0	18.02	18.02	18.02	19.0	0.0	
100	16QAM	1	1	18.01	18.01	18.01	19.0	0.0	
100	16QAM	1	1	17.98	17.98	17.98	19.0	0.0	
100	256QAM	1	1	17.95	17.95	17.95	19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.97	18.07	17.98	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.98	18.02	17.97	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.96	18.00	18.04	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.09	18.03	17.95	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.95	18.04	18.01	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.95	18.04	17.95	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.02	17.99	18.04	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.97	18.07	17.98	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.95	18.01	17.95	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.95	18.00	18.00	19.0	0.0	

Part27Q n78_Ant 4_HPUE									
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)									
100	PI2 BPSK	1	1	17.99	18.00	18.01	19.0	0.0	
100	PI2 BPSK	1	137	18.07	18.07	18.07	19.0	0.0	
100	PI2 BPSK	1	271	18.06	18.06	18.06	19.0	0.0	
100	PI2 BPSK	135	0	17.95	17.95	17.95	19.0	0.0	
100	PI2 BPSK	135	69	18.00	18.00	18.00	19.0	0.0	
100	PI2 BPSK	135	138	17.99	17.99	17.99	19.0	0.0	
100	PI2 BPSK	270	0	18.04	18.04	18.04	19.0	0.0	
100	QPSK	1	1	18.10	18.10	18.10	19.0	0.0	
100	QPSK	1	137	18.01	18.01	18.01	19.0	0.0	
100	QPSK	1	271	17.97	17.97	17.97	19.0	0.0	
100	QPSK	135	0	17.95	17.95	17.95	19.0	0.0	
100	QPSK	135	69	18.00	18.00	18.00	19.0	0.0	
100	QPSK	135	138	17.97	17.97	17.97	19.0	0.0	
100	QPSK	270	0	18.02	18.02	18.02	19.0	0.0	
100	16QAM	1	1	18.01	18.01	18.01	19.0	0.0	
100	16QAM	1	1	17.98	17.98	17.98	19.0	0.0	
100	256QAM	1	1	17.95	17.95	17.95	19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.97	18.07	17.98	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.98	18.02	17.97	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.96	18.00	18.04	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.09	18.03	17.95	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.95	18.04	18.01	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.95	18.04	17.95	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.02	17.99	18.04	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.97	18.07	17.98	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.95	18.01	17.95	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.95	18.00	18.00	19.0	0.0	



Par270 n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	15.72	3750		
100	PI2 BPSK	1	137	15.81		17.0	0.0
100	PI2 BPSK	1	271	15.80			
100	PI2 BPSK	135	0	15.82		17.0	0.0
100	PI2 BPSK	135	69	15.72		17.0	0.0
100	PI2 BPSK	135	138	15.68		17.0	0.0
100	PI2 BPSK	270	0	15.81			
100	QPSK	1	1	15.63			
100	QPSK	1	137	15.68		17.0	0.0
100	QPSK	1	271	15.78			
100	QPSK	135	0	15.71			
100	QPSK	135	69	15.77		17.0	0.0
100	QPSK	135	138	15.76		17.0	0.0
100	QPSK	270	0	15.68		17.0	0.0
100	16QAM	1	1	15.76		17.0	0.0
100	64QAM	1	1	15.74		17.0	0.0
100	256QAM	1	1	15.75		17.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.71	15.73	15.81	17.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.74	15.73	15.69	17.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.69	15.79	15.78	17.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.67	15.79	15.76	17.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.72	15.72	15.77	17.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.70	15.73	15.69	17.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.66	15.82	15.75	17.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.79	15.74	15.79	17.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.73	15.77	15.68	17.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.71	15.77	15.70	17.0

Par270 n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	15.72	3750		
100	PI2 BPSK	1	137	15.81		17.0	0.0
100	PI2 BPSK	1	271	15.80			
100	PI2 BPSK	135	0	15.82		17.0	0.0
100	PI2 BPSK	135	69	15.72		17.0	0.0
100	PI2 BPSK	135	138	15.68		17.0	0.0
100	PI2 BPSK	270	0	15.81			
100	QPSK	1	1	15.63			
100	QPSK	1	137	15.68		17.0	0.0
100	QPSK	1	271	15.78			
100	QPSK	135	0	15.71			
100	QPSK	135	69	15.77		17.0	0.0
100	QPSK	135	138	15.76		17.0	0.0
100	QPSK	270	0	15.68		17.0	0.0
100	16QAM	1	1	15.76		17.0	0.0
100	64QAM	1	1	15.74		17.0	0.0
100	256QAM	1	1	15.75		17.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.71	15.73	15.81	17.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.74	15.73	15.69	17.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.69	15.79	15.78	17.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.67	15.79	15.76	17.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.72	15.72	15.77	17.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.70	15.73	15.69	17.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.66	15.82	15.75	17.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.79	15.74	15.79	17.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.73	15.77	15.68	17.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.71	15.77	15.70	17.0



Part27Q n78_Ant 7									
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	15.73	3499.98				
100	PI2 BPSK	1	137	15.64			17.0	0.0	
100	PI2 BPSK	1	271	15.66					
100	PI2 BPSK	135	0	15.75			17.0	0.0	
100	PI2 BPSK	135	69	15.68			17.0	0.0	
100	PI2 BPSK	135	138	15.71			17.0	0.0	
100	PI2 BPSK	270	0	15.77					
100	QPSK	1	1	15.78					
100	QPSK	1	137	15.66			17.0	0.0	
100	QPSK	1	271	15.69					
100	QPSK	135	0	15.70			17.0	0.0	
100	QPSK	135	69	15.77					
100	QPSK	135	138	15.65			17.0	0.0	
100	QPSK	270	0	15.74			17.0	0.0	
100	16QAM	1	1	15.75			17.0	0.0	
100	64QAM	1	1	15.66			17.0	0.0	
100	256QAM	1	1	15.63			17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.70	15.72	15.77	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.72	15.65	15.73	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.63	15.68	15.75	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.69	15.77	15.73	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.65	15.73	15.69	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.74	15.60	15.67	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.69	15.70	15.71	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.73	15.77	15.70	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.70	15.73	15.77	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.73	15.69	15.70	17.0	0.0	

Part27Q n78_Ant 7_HPUE									
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	15.73	3499.98				
100	PI2 BPSK	1	137	15.64			17.0	0.0	
100	PI2 BPSK	1	271	15.66					
100	PI2 BPSK	135	0	15.75			17.0	0.0	
100	PI2 BPSK	135	69	15.68			17.0	0.0	
100	PI2 BPSK	135	138	15.71			17.0	0.0	
100	PI2 BPSK	270	0	15.77					
100	QPSK	1	1	15.78					
100	QPSK	1	137	15.66			17.0	0.0	
100	QPSK	1	271	15.69					
100	QPSK	135	0	15.70			17.0	0.0	
100	QPSK	135	69	15.77					
100	QPSK	135	138	15.65			17.0	0.0	
100	QPSK	270	0	15.74			17.0	0.0	
100	16QAM	1	1	15.75			17.0	0.0	
100	64QAM	1	1	15.66			17.0	0.0	
100	256QAM	1	1	15.63			17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.70	15.72	15.77	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.72	15.65	15.73	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.63	15.68	15.75	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.69	15.77	15.73	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.65	15.73	15.69	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.74	15.60	15.67	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.69	15.70	15.71	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.73	15.77	15.70	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.70	15.73	15.77	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.73	15.69	15.70	17.0	0.0	



Par270 n78_Ant 8									
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	15.53	15.53	15.53			
100	PI2 BPSK	1	137	15.47	15.47	15.47	17.0	0.0	
100	PI2 BPSK	1	271	15.50	15.50	15.50			
100	PI2 BPSK	135	0	15.44	15.44	15.44	17.0	0.0	
100	PI2 BPSK	135	69	15.52	15.52	15.52	17.0	0.0	
100	PI2 BPSK	135	138	15.46	15.46	15.46	17.0	0.0	
100	PI2 BPSK	270	0	15.48	15.48	15.48	17.0	0.0	
100	QPSK	1	1	15.58	15.58	15.58			
100	QPSK	1	137	15.44	15.44	15.44	17.0	0.0	
100	QPSK	1	271	15.43	15.43	15.43			
100	QPSK	135	0	15.45	15.45	15.45	17.0	0.0	
100	QPSK	135	69	15.51	15.51	15.51	17.0	0.0	
100	QPSK	135	138	15.46	15.46	15.46	17.0	0.0	
100	QPSK	270	0	15.43	15.43	15.43	17.0	0.0	
100	16QAM	1	1	15.55	15.55	15.55	17.0	0.0	
100	64QAM	1	1	15.52	15.52	15.52	17.0	0.0	
100	256QAM	1	1	15.53	15.53	15.53	17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.44	15.44	15.44	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.48	15.47	15.53	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.41	15.44	15.47	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.56	15.43	15.47	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.44	15.57	15.56	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.51	15.50	15.46	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.48	15.56	15.55	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.46	15.44	15.44	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.54	15.53	15.51	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.51	15.52	15.47	17.0	0.0	

Par270 n78_Ant 8_HPUE									
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	17.02	17.02	17.02			
100	PI2 BPSK	1	137	17.04	17.04	17.04	18.5	0.0	
100	PI2 BPSK	1	271	16.99	16.99	16.99			
100	PI2 BPSK	135	0	17.04	17.04	17.04	18.5	0.0	
100	PI2 BPSK	135	69	17.01	17.01	17.01	18.5	0.0	
100	PI2 BPSK	135	138	17.04	17.04	17.04	18.5	0.0	
100	PI2 BPSK	270	0	16.98	16.98	16.98	18.5	0.0	
100	QPSK	1	1	17.08	17.08	17.08			
100	QPSK	1	137	16.98	16.98	16.98	18.5	0.0	
100	QPSK	1	271	16.97	16.97	16.97			
100	QPSK	135	0	17.01	17.01	17.01	18.5	0.0	
100	QPSK	135	69	17.07	17.07	17.07	18.5	0.0	
100	QPSK	135	138	16.99	16.99	16.99	18.5	0.0	
100	QPSK	270	0	16.99	16.99	16.99	18.5	0.0	
100	16QAM	1	1	17.00	17.00	17.00	18.5	0.0	
100	64QAM	1	1	16.99	16.99	16.99	18.5	0.0	
100	256QAM	1	1	16.71	16.71	16.71	18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.00	17.03	16.98	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.95	17.07	17.02	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.03	17.00	17.06	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.96	16.99	17.01	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.01	16.99	17.02	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.00	16.99	16.97	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.94	17.08	17.03	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.00	17.08	16.96	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.05	17.07	17.00	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.01	17.00	17.02	18.5	0.0	



Part27Q n78_Ant 8

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	Pl2 BPSK	1	1	3499.98	3499.98			
100	Pl2 BPSK	1	137	14.82	14.82		18.0	0.0
100	Pl2 BPSK	1	271	14.86	14.86			
100	Pl2 BPSK	136	0	14.89	14.89		18.0	0.0
100	Pl2 BPSK	136	69	14.80	14.80			
100	Pl2 BPSK	136	138	14.82	14.82		18.0	0.0
100	Pl2 BPSK	270	0	14.84	14.84			
100	QPSK	1	1	14.92	14.92			
100	QPSK	1	137	14.98	14.98		18.0	0.0
100	QPSK	1	271	14.96	14.96			
100	QPSK	136	0	14.84	14.84			
100	QPSK	136	69	14.85	14.85		18.0	0.0
100	QPSK	136	138	14.78	14.78			
100	QPSK	270	0	14.80	14.80		18.0	0.0
100	16QAM	1	1	14.80	14.80		18.0	0.0
100	16QAM	1	1	14.86	14.86		18.0	0.0
100	16QAM	1	1	14.84	14.84		18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3495	3499.98	3504.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.98	14.98	14.98	18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3490.02	3499.98	3510		
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.87	14.81	14.91	18.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.81	14.82	14.80	18.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.87	14.80	14.83	18.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.83	14.86	14.84	18.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.83	14.80	14.88	18.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.89	14.83	14.81	18.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.90	14.86	14.83	18.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.91	14.81	14.87	18.0	0.0

Part27Q n78_Ant 8_HPUE

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	Pl2 BPSK	1	1	16.93	16.93			
100	Pl2 BPSK	1	137	16.92	16.92		18.0	0.0
100	Pl2 BPSK	1	271	16.93	16.93			
100	Pl2 BPSK	136	0	16.84	16.84		18.0	0.0
100	Pl2 BPSK	136	69	16.83	16.83			
100	Pl2 BPSK	136	138	16.83	16.83		18.0	0.0
100	Pl2 BPSK	270	0	16.89	16.89			
100	QPSK	1	1	16.95	16.95			
100	QPSK	1	137	16.91	16.91		18.0	0.0
100	QPSK	1	271	16.95	16.95			
100	QPSK	136	0	16.82	16.82			
100	QPSK	136	69	16.84	16.84		18.0	0.0
100	QPSK	136	138	16.82	16.82			
100	QPSK	270	0	16.84	16.84		18.0	0.0
100	16QAM	1	1	16.88	16.88		18.0	0.0
100	16QAM	1	1	16.93	16.93		18.0	0.0
100	16QAM	1	1	16.94	16.94		17.5	0.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.85	16.88	16.83	18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.92	16.86	16.92	18.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.80	16.86	16.86	18.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.83	16.80	16.88	18.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.93	16.90	16.81	18.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.85	16.88	16.88	18.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.87	16.92	16.87	18.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.90	16.93	16.92	18.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.93	16.87	16.89	18.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.92	16.87	16.87	18.0	0.0

Par27O n78_Ant 10

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	Pl2 BPSK	1	1	3750	3750			
100	Pl2 BPSK	1	137	17.71	17.71		19.0	0.0
100	Pl2 BPSK	1	271	17.72	17.72			
100	Pl2 BPSK	136	0	17.72	17.72		19.0	0.0
100	Pl2 BPSK	136	69	17.63	17.63			
100	Pl2 BPSK	136	138	17.77	17.77		19.0	0.0
100	Pl2 BPSK	270	0	17.83	17.83			
100	QPSK	1	1	17.78	17.78			
100	QPSK	1	137	17.66	17.66		19.0	0.0
100	QPSK	1	271	17.83	17.83			
100	QPSK	136	0	17.65	17.65			
100	QPSK	136	69	17.70	17.70		19.0	0.0
100	QPSK	136	138	17.68	17.68			
100	QPSK	270	0	17.68	17.68		19.0	0.0
100	16QAM	1	1	17.72	17.72		19.0	0.0
100	16QAM	1	1	17.73	17.73		19.0	0.0
100	16QAM	1	1	17.83	17.83		19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3745.02	3750	3754.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.71	17.71	17.65	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.66	17.69	17.65	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.75	17.75	17.70	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.65	17.64	17.69	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.63	17.64	17.74	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.68	17.71	17.74	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.77	17.69	17.72	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.77	17.64	17.76	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.71	17.70	17.64	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.70	17.66	17.68	19.0	0.0



Par270 n78_Ant_10_HPUE									
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	19.68	19.72	19.76	21.0	0.0	
100	PI2 BPSK	1	137	19.72	19.76	19.80	21.0	0.0	
100	PI2 BPSK	1	271	19.86	19.90	19.94	21.0	0.0	
100	PI2 BPSK	135	0	19.87	19.91	19.95	21.0	0.0	
100	PI2 BPSK	135	69	19.92	19.96	20.00	21.0	0.0	
100	PI2 BPSK	135	138	19.99	20.03	20.07	21.0	0.0	
100	PI2 BPSK	270	0	19.99	20.03	20.07	21.0	0.0	
100	QPSK	1	1	19.73	19.77	19.81	21.0	0.0	
100	QPSK	1	137	19.79	19.83	19.87	21.0	0.0	
100	QPSK	1	271	19.87	19.91	19.95	21.0	0.0	
100	QPSK	135	0	19.89	19.93	19.97	21.0	0.0	
100	QPSK	135	69	19.94	19.98	20.02	21.0	0.0	
100	QPSK	135	138	19.99	20.03	20.07	21.0	0.0	
100	QPSK	270	0	19.99	20.03	20.07	21.0	0.0	
100	16QAM	1	1	19.70	19.74	19.78	21.0	0.0	
100	64QAM	1	1	19.83	19.87	19.91	21.0	0.0	
100	256QAM	1	1	19.95	19.99	20.03	20.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.62	19.67	19.72	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.59	19.64	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.71	19.69	19.67	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.71	19.65	19.64	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.55	19.72	19.65	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.61	19.72	19.81	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.70	19.70	19.67	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.71	19.59	19.60	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.71	19.68	19.58	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.68	19.71	19.69	21.0	0.0	

Part27Q n78_Ant 10									
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	17.79	17.77	17.75	19.0	0.0	
100	PI2 BPSK	1	137	17.77	17.76	17.75	19.0	0.0	
100	PI2 BPSK	1	271	17.81	17.80	17.79	19.0	0.0	
100	PI2 BPSK	135	0	17.77	17.77	17.77	19.0	0.0	
100	PI2 BPSK	135	69	17.82	17.82	17.82	19.0	0.0	
100	PI2 BPSK	135	138	17.77	17.77	17.77	19.0	0.0	
100	PI2 BPSK	270	0	17.82	17.82	17.82	19.0	0.0	
100	QPSK	1	1	17.84	17.84	17.84	19.0	0.0	
100	QPSK	1	137	17.76	17.76	17.76	19.0	0.0	
100	QPSK	1	271	17.75	17.75	17.75	19.0	0.0	
100	QPSK	135	0	17.76	17.76	17.76	19.0	0.0	
100	QPSK	135	69	17.83	17.83	17.83	19.0	0.0	
100	QPSK	135	138	17.82	17.82	17.82	19.0	0.0	
100	QPSK	270	0	17.71	17.71	17.71	19.0	0.0	
100	16QAM	1	1	17.77	17.77	17.77	19.0	0.0	
100	64QAM	1	1	17.72	17.72	17.72	19.0	0.0	
100	256QAM	1	1	17.76	17.76	17.76	19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.80	17.76	17.81	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.82	17.76	17.77	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.82	17.83	17.80	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.72	17.76	17.81	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.70	17.82	17.72	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.77	17.73	17.74	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.82	17.70	17.71	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.76	17.76	17.83	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.78	17.77	17.72	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.70	17.69	17.73	19.0	0.0	

Part27Q n78_Ant 10_HPUE									
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	19.63	19.63	19.63	21.0	0.0	
100	PI2 BPSK	1	137	19.76	19.76	19.76	21.0	0.0	
100	PI2 BPSK	1	271	19.84	19.84	19.84	21.0	0.0	
100	PI2 BPSK	135	0	19.65	19.65	19.65	21.0	0.0	
100	PI2 BPSK	135	69	19.69	19.69	19.69	21.0	0.0	
100	PI2 BPSK	135	138	19.84	19.84	19.84	21.0	0.0	
100	PI2 BPSK	270	0	19.64	19.64	19.64	21.0	0.0	
100	QPSK	1	1	19.77	19.77	19.77	21.0	0.0	
100	QPSK	1	137	19.75	19.75	19.75	21.0	0.0	
100	QPSK	1	271	19.80	19.80	19.80	21.0	0.0	
100	QPSK	135	0	19.72	19.72	19.72	21.0	0.0	
100	QPSK	135	69	19.76	19.76	19.76	21.0	0.0	
100	QPSK	135	138	19.88	19.88	19.88	21.0	0.0	
100	QPSK	270	0	19.63	19.63	19.63	21.0	0.0	
100	16QAM	1	1	19.73	19.73	19.73	21.0	0.0	
100	64QAM	1	1	19.63	19.63	19.63	21.0	0.0	
100	256QAM	1	1	19.28	19.28	19.28	20.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.60	19.64	19.71	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.76	19.62	19.63	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.64	19.69	19.71	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.76	19.75	19.65	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.22	19.72	19.73	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.65	19.67	19.62	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.63	19.72	19.76	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.63	19.66	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.70	19.70	19.68	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.70	19.64	19.73	21.0	0.0	



Reduced Power Mode for DSI2 + Sim

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)				1860	1880	1900			
20	PI2 BPSK	1	1	19.18	19.37	19.24			
20	PI2 BPSK	1	53	19.27	19.40	19.26	20.5	0.0	
20	PI2 BPSK	1	104	19.16	19.39	19.27			
20	PI2 BPSK	50	0	19.21	19.35	19.32	20.5	0.0	
20	PI2 BPSK	50	28	19.26	19.38	19.19	20.5	0.0	
20	PI2 BPSK	50	56	19.29	19.34	19.22	20.5	0.0	
20	PI2 BPSK	100	0	19.22	19.36	19.19			
20	QPSK	1	1	19.34	19.44	19.37			
20	QPSK	1	53	19.27	19.31	19.16	20.5	0.0	
20	QPSK	1	104	19.30	19.32	19.20			
20	QPSK	50	0	19.19	19.32	19.26	20.5	0.0	
20	QPSK	50	28	19.20	19.36	19.32	20.5	0.0	
20	QPSK	50	56	19.16	19.32	19.31	20.5	0.0	
20	QPSK	100	0	19.22	19.43	19.23	20.5	0.0	
20	16QAM	1	1	19.23	19.43	19.30	20.5	0.0	
20	16QAM	1	1	19.18	19.31	19.29	20.5	0.0	
20	256QAM	1	1	19.27	19.32	19.19	20.5	0.0	
Channel				371500	376000	380500			
Frequency (MHz)				1872.5	1900	1927.5			
15	QPSK	1	1	19.24	19.42	19.28	20.5	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1865	1880	1895			
10	QPSK	1	1	19.30	19.43	19.28	20.5	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	19.21	19.42	19.22	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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	14.38	14.40	14.38			
20	PI2 BPSK	1	53	14.26	14.27	14.28	15.5	0.0	
20	PI2 BPSK	1	104	14.17	14.25	14.19			
20	PI2 BPSK	50	0	14.24	14.26	14.20	15.5	0.0	
20	PI2 BPSK	50	28	14.29	14.36	14.34	15.5	0.0	
20	PI2 BPSK	50	56	14.19	14.15	14.15	15.5	0.0	
20	PI2 BPSK	100	0	14.26	14.33	14.32			
20	QPSK	1	1	14.41	14.44	14.40			
20	QPSK	1	53	14.34	14.37	14.38	15.5	0.0	
20	QPSK	1	104	14.25	14.30	14.23			
20	QPSK	50	0	14.26	14.30	14.25	15.5	0.0	
20	QPSK	50	28	14.38	14.39	14.37	15.5	0.0	
20	QPSK	50	56	14.24	14.22	14.22	15.5	0.0	
20	QPSK	100	0	14.34	14.39	14.33			
20	16QAM	1	1	14.37	14.38	14.38	15.5	0.0	
20	16QAM	1	1	14.27	14.27	14.32	15.5	0.0	
20	256QAM	1	1	14.22	14.28	14.18	15.5	0.0	
Channel				371500	376000	380500			
Frequency (MHz)				1872.5	1900	1927.5			
15	QPSK	1	1	14.39	14.41	14.35	15.5	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1865	1880	1895			
10	QPSK	1	1	14.31	14.43	14.34	15.5	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	14.37	14.37	14.31	15.5	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				166000	167200	167600			
Frequency (MHz)				830	835.5	838			
20	PI2 BPSK	1	1	22.89	22.96	22.76			
20	PI2 BPSK	1	53	22.88	22.84	22.79	24.0	0.0	
20	PI2 BPSK	1	104	22.81	22.90	22.79			
20	PI2 BPSK	50	0	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.83	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.78	24.0	0.0	
20	PI2 BPSK	100	0	22.76	22.81	22.72			
20	QPSK	1	1	22.92	22.97	22.90			
20	QPSK	1	53	22.81	22.78	22.73	24.0	0.0	
20	QPSK	1	104	22.83	22.79	22.72			
20	QPSK	50	0	22.76	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.78	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.68	24.0	0.0	
20	16QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	16QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				165300	167300	168300			
Frequency (MHz)				826.5	831.5	836.5			
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				165800	167300	168800			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				166300	167300	169300			
Frequency (MHz)				836.5	836.5	846.5			
5	QPSK	1	1	22.84	22.83	22.78	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	PI2 BPSK	1	1	20.95	21.15	20.98				
20	PI2 BPSK	1	53	20.96	21.08	20.94	22.5	0.0		
20	PI2 BPSK	1	104	21.03	21.14	21.06				
20	PI2 BPSK	50	0	20.92	21.15	20.95	22.5	0.0		
20	PI2 BPSK	50	28	20.92	21.08	21.03	22.5	0.0		
20	PI2 BPSK	50	56	20.92	21.05	21.01				
20	PI2 BPSK	100	0	20.95	21.13	20.97	22.5	0.0		
20	QPSK	1	1	21.15	21.25	21.17				
20	QPSK	1	53	21.16	21.23	21.14	22.5	0.0		
20	QPSK	1	104	21.10	21.12	21.08				
20	QPSK	50	0	21.02	21.13	21.02	22.5	0.0		
20	QPSK	50	28	21.04	21.17	21.07	22.5	0.0		
20	QPSK	50	56	20.94	21.05	21.05	22.5	0.0		
20	QPSK	100	0	20.91	21.14	20.99	22.5	0.0		
20	16QAM	1	1	20.93	21.07	21.00	22.5	0.0		
20	64QAM	1	1	20.94	21.06	20.95	22.5	0.0		
20	256QAM	1	1	19.33	19.36	19.28	20.5	2.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	21.00	21.05	21.06	22.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.94	21.13	21.00	22.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	21.01	21.12	20.94	22.5	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)										
40	PI2 BPSK	1	1	15.16	15.49	15.49				
40	PI2 BPSK	1	108	15.17	15.52	15.44	16.5	0.0		
40	PI2 BPSK	1	214	15.18	15.47	15.45				
40	PI2 BPSK	108	0	15.29	15.54	15.40	16.5	0.0		
40	PI2 BPSK	108	54	15.12	15.47	15.35	16.5	0.0		
40	PI2 BPSK	108	108	15.27	15.31	15.31	16.5	0.0		
40	PI2 BPSK	216	0	15.27	15.46	15.30				
40	QPSK	1	1	15.31	15.52	15.54				
40	QPSK	1	108	15.21	15.60	15.46	16.5	0.0		
40	QPSK	1	214	15.26	15.51	15.43				
40	QPSK	108	0	15.15	15.54	15.50	16.5	0.0		
40	QPSK	108	54	15.25	15.56	15.51	16.5	0.0		
40	QPSK	108	108	15.21	15.45	15.36	16.5	0.0		
40	QPSK	216	0	15.26	15.56	15.40				
40	16QAM	1	1	15.23	15.52	15.48	16.5	0.0		
40	64QAM	1	1	15.20	15.53	15.44	16.5	0.0		
40	256QAM	1	1	15.25	15.48	15.45	16.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.27	15.52	15.47	16.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	15.24	15.54	15.48	16.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.23	15.53	15.49	16.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.30	15.57	15.47	16.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.29	15.59	15.53	16.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	15.24	15.59	15.46	16.5	0.0		

n7_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)										
40	PI2 BPSK	1	1	20.98	20.96	20.97				
40	PI2 BPSK	1	108	20.99	20.92	20.90	22.0	0.0		
40	PI2 BPSK	1	214	20.96	20.95	20.97				
40	PI2 BPSK	108	0	20.87	20.96	20.96	22.0	0.0		
40	PI2 BPSK	108	54	20.88	20.98	20.96	22.0	0.0		
40	PI2 BPSK	108	108	20.92	20.92	21.01	22.0	0.0		
40	PI2 BPSK	216	0	20.90	21.02	20.98				
40	QPSK	1	1	21.02	21.07	21.03				
40	QPSK	1	108	20.89	20.96	21.01	22.0	0.0		
40	QPSK	1	214	20.97	20.97	21.01				
40	QPSK	108	0	20.89	20.98	20.99	22.0	0.0		
40	QPSK	108	54	20.95	21.05	21.00	22.0	0.0		
40	QPSK	108	108	20.91	20.95	20.93	22.0	0.0		
40	QPSK	216	0	20.91	21.02	20.92				
40	16QAM	1	1	20.91	20.94	20.91	22.0	0.0		
40	64QAM	1	1	20.87	20.93	20.90	22.0	0.0		
40	256QAM	1	1	20.38	20.46	20.43	21.0	1.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.91	21.06	20.94	22.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	20.98	21.00	20.93	22.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.94	20.99	21.01	22.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.91	21.04	21.02	22.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.98	20.96	21.00	22.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	20.93	20.96	20.99	22.0	0.0		



n12_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)										
15	PI2 BPSK	1	1	22.89	22.90	22.87				
15	PI2 BPSK	1	40	22.87	22.83	22.77	24.0	0.0		
15	PI2 BPSK	1	77	22.78	22.87	22.84				
15	PI2 BPSK	36	0	22.80	22.80	22.69	24.0	0.0		
15	PI2 BPSK	36	22	22.81	22.88	22.78	24.0	0.0		
15	PI2 BPSK	36	43	22.71	22.81	22.75				
15	PI2 BPSK	12	0	22.74	22.85	22.71	24.0	0.0		
15	QPSK	1	1	22.85	22.82	22.82				
15	QPSK	1	40	22.71	22.85	22.72	24.0	0.0		
15	QPSK	1	77	22.74	22.77	22.70				
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0		
15	QPSK	36	22	22.71	22.83	22.73	24.0	0.0		
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0		
15	QPSK	75	0	22.76	22.77	22.76				
15	16QAM	1	1	22.78	22.83	22.76	24.0	0.0		
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5		
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0		

n12_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)										
15	PI2 BPSK	1	1	23.31	23.36	23.34				
15	PI2 BPSK	1	40	23.23	23.31	23.23	24.0	0.0		
15	PI2 BPSK	1	77	23.26	23.33	23.31				
15	PI2 BPSK	36	0	23.20	23.30	23.23	24.0	0.0		
15	PI2 BPSK	36	22	23.22	23.33	23.25	24.0	0.0		
15	PI2 BPSK	36	43	23.11	23.24	23.17				
15	PI2 BPSK	12	0	23.21	23.30	23.17	24.0	0.0		
15	QPSK	1	1	23.27	23.37	23.30				
15	QPSK	1	40	23.16	23.22	23.19	24.0	0.0		
15	QPSK	1	77	23.11	23.27	23.18				
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0		
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0		
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0		
15	QPSK	75	0	23.12	23.29	23.23				
15	16QAM	1	1	23.19	23.32	23.15	24.0	0.0		
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.5		
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.18	23.32	23.23	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0		

n14_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)										
10	PI2 BPSK	1	1		22.92					
10	PI2 BPSK	1	26		22.91		24.0	0.0		
10	PI2 BPSK	1	55		22.89					
10	PI2 BPSK	25	0		22.82		24.0	0.0		
10	PI2 BPSK	25	14		22.81		24.0	0.0		
10	PI2 BPSK	25	27		22.82					
10	PI2 BPSK	50	0		22.80		24.0	0.0		
10	QPSK	1	1		22.83					
10	QPSK	1	26		22.84		24.0	0.0		
10	QPSK	1	50		22.89					
10	QPSK	25	0		22.83		24.0	0.0		
10	QPSK	25	14		22.85		24.0	0.0		
10	QPSK	25	27		22.80					
10	QPSK	50	0		22.84		24.0	0.0		
10	16QAM	1	1		22.86		24.0	0.0		
10	64QAM	1	1		22.22		23.0	1.0		
10	256QAM	1	1		20.05		21.0	3.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0		



n14_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)									
10	PI2 BPSK	1	1	20.03	19.94		21.5	0.0	
10	PI2 BPSK	1	26	19.93	19.84				
10	PI2 BPSK	1	50	19.93	19.84		21.5	0.0	
10	PI2 BPSK	25	0	19.96	20.08		21.5	0.0	
10	PI2 BPSK	25	14	20.08	19.93				
10	PI2 BPSK	25	27	19.93	19.84		21.5	0.0	
10	PI2 BPSK	50	0	19.94	20.10				
10	QPSK	1	1	20.10	20.02		21.5	0.0	
10	QPSK	1	26	20.02	19.93				
10	QPSK	1	50	20.02	19.93		21.5	0.0	
10	QPSK	25	0	19.96	20.08		21.5	0.0	
10	QPSK	25	14	20.08	19.93				
10	QPSK	25	27	19.93	19.84		21.5	0.0	
10	QPSK	50	0	20.03	20.00		21.5	0.0	
10	64QAM	1	1	20.00	20.00		21.5	0.0	
10	256QAM	1	1	19.89	19.89		21.0	0.5	
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.07	20.08	20.07	21.5	0.0	

n25_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	19.27	19.28	19.23			
40	PI2 BPSK	1	108	19.28	19.29	19.21	20.5	0.0	
40	PI2 BPSK	1	214	19.29	19.25	19.28			
40	PI2 BPSK	108	0	19.20	19.23	19.30	20.5	0.0	
40	PI2 BPSK	108	54	19.27	19.34	19.28	20.5	0.0	
40	PI2 BPSK	108	108	19.28	19.32	19.21			
40	PI2 BPSK	216	0	19.20	19.24	19.27	20.5	0.0	
40	QPSK	1	1	19.31	19.45	19.33			
40	QPSK	1	108	19.16	19.20	19.24	20.5	0.0	
40	QPSK	1	214	19.24	19.32	19.31			
40	QPSK	108	0	19.26	19.34	19.29	20.5	0.0	
40	QPSK	108	54	19.23	19.35	19.30	20.5	0.0	
40	QPSK	108	108	19.20	19.23	19.19	20.5	0.0	
40	QPSK	216	0	19.17	19.23	19.20			
40	16QAM	1	1	19.23	19.23	19.29	20.5	0.0	
40	64QAM	1	1	19.17	19.37	19.25	20.5	0.0	
40	256QAM	1	1	19.30	19.27	19.30	20.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	19.17	19.29	19.31	20.5	0.0	MPR
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.23	19.26	19.30	20.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	18.25	18.25	18.25	20.5	0.0	MPR
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.16	19.37	19.23	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.30	19.35	19.31	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.24	19.30	19.22	20.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	19.19	19.28	19.24	20.5	0.0	

n25_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	13.92	14.06	13.90			
40	PI2 BPSK	1	108	13.89	13.98	13.92	15.5	0.0	
40	PI2 BPSK	1	214	13.90	13.93	13.92			
40	PI2 BPSK	108	0	13.94	13.92	13.98	15.5	0.0	
40	PI2 BPSK	108	54	13.89	13.93	13.94	15.5	0.0	
40	PI2 BPSK	108	108	13.92	13.90	13.93			
40	PI2 BPSK	216	0	13.95	13.98	13.94	15.5	0.0	
40	QPSK	1	1	14.02	14.09	13.97			
40	QPSK	1	108	13.88	13.98	13.95	15.5	0.0	
40	QPSK	1	214	13.97	14.02	13.91			
40	QPSK	108	0	13.96	13.97	13.89	15.5	0.0	
40	QPSK	108	54	13.93	14.00	13.93	15.5	0.0	
40	QPSK	108	108	13.93	13.90	13.92	15.5	0.0	
40	QPSK	216	0	13.94	13.95	13.90			
40	16QAM	1	1	13.92	13.98	13.96	15.5	0.0	
40	64QAM	1	1	13.89	13.91	13.90	15.5	0.0	
40	256QAM	1	1	13.90	13.97	13.91	15.5	0.0	
Channel									
Frequency (MHz)									
35	QPSK	1	1	13.97	14.06	13.96	15.5	0.0	MPR
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.96	14.05	13.91	15.5	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	13.84	14.02	13.95	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.95	14.02	13.90	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.96	14.02	13.96	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.94	14.02	13.91	15.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	13.98	14.04	13.96	15.5	0.0	



n26_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)	MSR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.83	22.87			
20	PI2 BPSK	1	104	22.86	22.79	22.88			
20	PI2 BPSK	50	0	22.85	22.85	22.85	24.0	0.0	
20	PI2 BPSK	50	26	22.92	22.90	22.84	24.0	0.0	
20	PI2 BPSK	50	56	22.87	22.86	22.86	24.0	0.0	
20	PI2 BPSK	100	0	22.86	22.86	22.81			
20	QPSK	1	1	22.95	22.95	23.02			
20	QPSK	1	53	22.96	22.81	22.86	24.0	0.0	
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87			24.0
20	QPSK	50	26	22.87	22.85	22.88	24.0	0.0	
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.80	22.79	22.83	24.0	0.0	
20	64QAM	1	1	22.86	22.85	22.85	24.0	0.0	
20	64QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.92	22.80	22.80	24.0	0.0	

n26_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)	MSR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.39	21.39	21.35	22.5	0.0	
20	PI2 BPSK	1	53	21.30	21.41	21.40			
20	PI2 BPSK	1	104	21.33	21.38	21.38			
20	PI2 BPSK	50	0	21.44	21.48	21.48	22.5	0.0	
20	PI2 BPSK	50	26	21.34	21.42	21.37	22.5	0.0	
20	PI2 BPSK	50	56	21.31	21.36	21.38	22.5	0.0	
20	PI2 BPSK	100	0	21.34	21.45	21.45			
20	QPSK	1	1	21.45	21.50	21.47			
20	QPSK	1	53	21.30	21.36	21.36	22.5	0.0	
20	QPSK	1	104	21.41	21.45	21.38			
20	QPSK	50	0	21.31	21.43	21.41			22.5
20	QPSK	50	26	21.37	21.48	21.45	22.5	0.0	
20	QPSK	50	56	21.35	21.39	21.32	22.5	0.0	
20	QPSK	100	0	21.36	21.43	21.36	22.5	0.0	
20	16QAM	1	1	21.39	21.48	21.41	22.5	0.0	
20	16QAM	1	1	21.35	21.49	21.38	22.5	0.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	1.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.39	21.48	21.44	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.44	21.48	21.40	22.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.59	21.47	21.41	22.5	0.0	



n30_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up (m)	MFR (dB)
Channel				45000				
Frequency (MHz)				2315				
10	PI2 BPSK	1	1	16.09			18.0	0.0
10	PI2 BPSK	1	26	18.05				
10	PI2 BPSK	1	50	15.88				
10	PI2 BPSK	25	0	16.01			18.0	0.0
10	PI2 BPSK	25	14	15.92			18.0	0.0
10	PI2 BPSK	25	27	15.92			18.0	0.0
10	PI2 BPSK	50	0	15.90				
10	QPSK	1	1	16.10				
10	QPSK	1	26	16.06			18.0	0.0
10	QPSK	1	50	15.89				
10	QPSK	25	0	16.01			18.0	0.0
10	QPSK	25	14	16.06			18.0	0.0
10	QPSK	25	27	15.96			18.0	0.0
10	QPSK	50	0	16.03				
10	16QAM	1	1	16.04			18.0	0.0
10	64QAM	1	1	16.03			18.0	0.0
10	256QAM	1	1	15.88			18.0	0.0
Channel				46100	45000	46000	Tune-up (m)	MFR (dB)
Frequency (MHz)				2307.5	2315	2312.5		
5	QPSK	1	1	16.00	16.01	16.06	18.0	0.0

n30_Ant 9								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up (m)	MFR (dB)
Channel				45000				
Frequency (MHz)				2315				
10	PI2 BPSK	1	1	23.02				
10	PI2 BPSK	1	26	23.00			24.0	0.0
10	PI2 BPSK	1	50	22.96				
10	PI2 BPSK	25	0	22.96			24.0	0.0
10	PI2 BPSK	25	14	23.01			24.0	0.0
10	PI2 BPSK	25	27	22.97			24.0	0.0
10	PI2 BPSK	50	0	22.97				
10	QPSK	1	1	23.03				
10	QPSK	1	26	22.97			24.0	0.0
10	QPSK	1	50	22.94				
10	QPSK	25	0	22.97			24.0	0.0
10	QPSK	25	14	22.98			24.0	0.0
10	QPSK	25	27	22.92			24.0	0.0
10	QPSK	50	0	22.93				
10	16QAM	1	1	22.91			24.0	0.0
10	64QAM	1	1	22.44			23.0	1.0
10	256QAM	1	1	20.25			21.0	3.0
Channel				46100	45000	46000	Tune-up (m)	MFR (dB)
Frequency (MHz)				2307.5	2315	2312.5		
5	QPSK	1	1	22.97	22.99	22.98	24.0	0.0



n66_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	P12 BPSK	1	1	19.95	19.98	19.95				
40	P12 BPSK	1	108	19.89	19.97	19.88	21.0	0.0		
40	P12 BPSK	1	214	19.95	19.90	19.88				
40	P12 BPSK	108	0	19.95	19.99	19.94	21.0	0.0		
40	P12 BPSK	108	54	19.88	20.00	19.88	21.0	0.0		
40	P12 BPSK	108	108	19.87	20.03	19.88				
40	P12 BPSK	216	0	19.91	19.95	19.89	21.0	0.0		
40	QPSK	1	1	19.95	19.95	19.95				
40	QPSK	1	108	19.85	20.02	19.89	21.0	0.0		
40	QPSK	1	214	19.88	20.04	19.97				
40	QPSK	108	0	19.85	19.98	19.89	21.0	0.0		
40	QPSK	108	54	19.95	20.00	19.95	21.0	0.0		
40	QPSK	108	108	19.91	19.97	19.93	21.0	0.0		
40	QPSK	216	0	19.92	20.02	19.87				
40	16QAM	1	1	19.97	20.03	20.00	21.0	0.0		
40	64QAM	1	1	19.92	20.00	20.00	21.0	0.0		
40	256QAM	1	1	19.86	20.01	19.89	21.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	19.85	19.85	20.01	21.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.93	19.97	19.87	21.0	0.0		
Channel										
Frequency (MHz)										
34500	QPSK	34900	35300				Tune-up limit (dB)	MPR		
25	QPSK	1	1	17.22	17.45	17.25				
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.93	19.96	19.93	21.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.92	19.93	19.87	21.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.93	19.99	19.87	21.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	19.92	19.90	19.89	21.0	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)										
40	P12 BPSK	1	1	14.78	14.88	14.72				
40	P12 BPSK	1	108	14.61	14.70	14.52	15.5	0.0		
40	P12 BPSK	1	214	14.68	14.81	14.78				
40	P12 BPSK	108	0	14.56	14.83	14.75	15.5	0.0		
40	P12 BPSK	108	54	14.64	14.78	14.77	15.5	0.0		
40	P12 BPSK	108	108	14.61	14.73	14.57				
40	P12 BPSK	216	0	14.60	14.79	14.68	15.5	0.0		
40	QPSK	1	1	14.83	14.82	14.55				
40	QPSK	1	108	14.71	14.73	14.62	15.5	0.0		
40	QPSK	1	214	14.68	14.63	14.79				
40	QPSK	108	0	14.73	14.89	14.55	15.5	0.0		
40	QPSK	108	54	14.72	14.85	14.78	15.5	0.0		
40	QPSK	108	108	14.71	14.83	14.65	15.5	0.0		
40	QPSK	216	0	14.68	14.62	14.73				
40	16QAM	1	1	14.81	14.85	14.78	15.5	0.0		
40	64QAM	1	1	14.66	14.72	14.60	15.5	0.0		
40	256QAM	1	1	14.67	14.79	14.71	15.5	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	14.76	14.86	14.82	15.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.74	14.90	14.84	15.5	0.0		
Channel										
Frequency (MHz)										
34450	QPSK	34900	35300				Tune-up limit (dB)	MPR		
25	QPSK	1	1	14.77	14.85	14.79	15.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.73	14.83	14.73	15.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.82	14.91	14.76	15.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	14.79	14.86	14.76	15.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	14.76	14.89	14.82	15.5	0.0		

n70_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)										
15	P12 BPSK	1	1			20.68				
15	P12 BPSK	1	40			20.78	22.0	0.0		
15	P12 BPSK	1	77			20.72				
15	P12 BPSK	36	0			20.75	22.0	0.0		
15	P12 BPSK	36	22			20.73	22.0	0.0		
15	P12 BPSK	36	43			20.67	22.0	0.0		
15	P12 BPSK	75	0			20.69				
15	QPSK	1	1			20.82				
15	QPSK	1	40			20.73	22.0	0.0		
15	QPSK	1	77			20.73				
15	QPSK	36	0			20.68	22.0	0.0		
15	QPSK	36	22			20.70	22.0	0.0		
15	QPSK	36	43			20.67	22.0	0.0		
15	QPSK	75	0			20.75				
15	16QAM	1	1			20.78	22.0	0.0		
15	64QAM	1	1			20.74	22.0	0.0		
15	256QAM	1	1			20.35	21.5	0.5		
Channel										
Frequency (MHz)										
34500	QPSK	34900	35300				Tune-up limit (dB)	MPR		
10	QPSK	1	1	20.81	20.77	20.68	22.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	20.70	20.69	20.81	22.0	0.0		



n70_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)									
15	PI2 BPSK	1	1	15.83			16.5	0.0	
15	PI2 BPSK	1	40	15.85					
15	PI2 BPSK	1	77	15.73					
15	PI2 BPSK	35	0	15.83			16.5	0.0	
15	PI2 BPSK	35	22	15.85			16.5	0.0	
15	PI2 BPSK	35	43	15.64			16.5	0.0	
15	PI2 BPSK	12	0	15.85					
15	QPSK	1	1	15.95					
15	QPSK	1	40	15.93			16.5	0.0	
15	QPSK	1	77	15.82					
15	QPSK	35	0	15.83			16.5	0.0	
15	QPSK	35	22	15.83			16.5	0.0	
15	QPSK	35	43	15.76			16.5	0.0	
15	QPSK	75	0	15.81			16.5	0.0	
15	16QAM	1	1	15.86			16.5	0.0	
15	16QAM	1	1	15.83			16.5	0.0	
15	256QAM	1	1	15.73			16.5	0.0	
Channel									
Frequency (MHz)									
34000				34000	34000	34100	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.80	15.84	15.88	16.5	0.0	
Channel									
Frequency (MHz)									
33950				33950	34000	34100	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	15.87	15.90	15.90	16.5	0.0	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.09	23.03			
30	PI2 BPSK	1	80	23.01	23.04	22.92	24.0	0.0	
30	PI2 BPSK	1	158	23.00	23.08	23.01			
30	PI2 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	PI2 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	PI2 BPSK	80	80	22.91	23.02	22.92	24.0	0.0	
30	PI2 BPSK	160	0	22.95	22.99	22.98			
30	QPSK	1	1	22.08	22.10	22.01			
30	QPSK	1	80	22.94	22.98	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97			
30	QPSK	80	0	22.89	22.93	22.91	24.0	0.0	
30	QPSK	80	40	22.91	22.95	22.93	24.0	0.0	
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.95	22.96			
30	16QAM	1	1	22.80	22.83	22.83	24.0	0.0	
30	16QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
135100				135100	136100	137100	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.83	22.97	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
134600				134600	136100	137600	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
134100				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.80	22.89	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
133500				133500	136100	138500	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.86	22.92	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
133000				133000	136100	137000	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.13	23.13			
30	PI2 BPSK	1	80	23.15	23.16	23.10	24.0	0.0	
30	PI2 BPSK	1	158	23.18	23.24	23.20			
30	PI2 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	PI2 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	PI2 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	PI2 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09			
30	QPSK	80	0	23.09	23.09	23.11	24.0	0.0	
30	QPSK	80	40	23.13	23.19	23.17	24.0	0.0	
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06			
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0	
30	16QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
135100				135100	136100	137100	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
134600				134600	136100	137600	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
134100				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
133500				133500	136100	138500	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
133000				133000	136100	137000	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_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									
				518004	518000	518996			
				2996.02	2995	2993.98			
40	Pi/2 BPSK	1	1	15.48	15.73	15.69	17.5	0.0	
40	Pi/2 BPSK	1	53	15.57	15.67	15.71			
40	Pi/2 BPSK	1	104	15.62	15.58	15.70			
40	Pi/2 BPSK	50	0	15.60	15.71	15.64			
40	Pi/2 BPSK	50	28	15.48	15.62	15.55	17.5	0.0	
40	Pi/2 BPSK	50	56	15.71	15.58	15.61	17.5	0.0	
40	Pi/2 BPSK	100	0	15.74	15.68	15.56			
40	QPSK	1	1	15.60	15.76	15.72			
40	QPSK	1	53	15.55	15.60	15.66			
40	QPSK	1	104	15.59	15.61	15.62	17.5	0.0	
40	QPSK	50	0	15.52	15.68	15.62			
40	QPSK	50	28	15.60	15.70	15.64			
40	QPSK	50	56	15.61	15.64	15.49			
40	QPSK	100	0	15.61	15.62	15.49	17.5	0.0	
40	16QAM	1	1	15.65	15.56	15.75	17.5	0.0	
40	16QAM	1	1	15.63	15.65	15.58	17.5	0.0	
40	256QAM	1	1	15.57	15.61	15.71	17.5	0.0	
Channel									
				517002	518000	509998	Tune-up limit		
				2988.01	2985	2984.99	(dB)		
30	QPSK	1	1	15.65	15.62	15.68	17.5	0.0	
Channel									
				518000	518000	520000	Tune-up limit		
				2980	2995	2910	(dB)		
20	QPSK	1	1	15.58	15.64	15.69	17.5	0.0	
Channel									
				517002	518000	520000	Tune-up limit		
				2977.51	2995	2912.49	(dB)		
15	QPSK	1	1	15.60	15.66	15.72	17.5	0.0	
Channel									
				518004	518000	522996	Tune-up limit		
				2979.02	2995	2914.98	(dB)		
10	QPSK	1	1	15.46	15.73	15.60	17.5	0.0	

n38_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									
				518004	518000	518996			
				2996.02	2995	2993.98			
40	Pi/2 BPSK	1	1	21.30	21.45	21.39	22.5	0.0	
40	Pi/2 BPSK	1	53	21.33	21.41	21.41			
40	Pi/2 BPSK	1	104	21.33	21.42	21.28			
40	Pi/2 BPSK	50	0	21.30	21.46	21.38			
40	Pi/2 BPSK	50	28	21.38	21.47	21.38	22.5	0.0	
40	Pi/2 BPSK	50	56	21.37	21.47	21.32	22.5	0.0	
40	Pi/2 BPSK	100	0	21.30	21.35	21.35			
40	QPSK	1	1	21.44	21.49	21.42			
40	QPSK	1	53	21.36	21.46	21.40			
40	QPSK	1	104	21.39	21.42	21.41	22.5	0.0	
40	QPSK	50	0	21.33	21.40	21.32			
40	QPSK	50	28	21.38	21.42	21.34			
40	QPSK	50	56	21.30	21.40	21.28			
40	QPSK	100	0	21.30	21.40	21.38	22.5	0.0	
40	16QAM	1	1	21.31	21.46	21.30	22.5	0.0	
40	16QAM	1	1	21.39	21.40	21.29	22.5	0.0	
40	256QAM	1	1	20.91	20.94	20.92	21.5	1.0	
Channel									
				517002	518000	509998	Tune-up limit		
				2988.01	2985	2984.99	(dB)		
30	QPSK	1	1	21.35	21.39	21.38	22.5	0.0	
Channel									
				518000	518000	520000	Tune-up limit		
				2980	2995	2910	(dB)		
20	QPSK	1	1	21.39	21.36	21.34	22.5	0.0	
Channel									
				517002	518000	520000	Tune-up limit		
				2977.51	2995	2912.49	(dB)		
15	QPSK	1	1	21.36	21.37	21.33	22.5	0.0	
Channel									
				518004	518000	522996	Tune-up limit		
				2979.02	2995	2914.98	(dB)		
10	QPSK	1	1	21.29	21.47	21.27	22.5	0.0	

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									
				506002	518998	528000			
				2946.01	2942.99	2943			
100	Pi/2 BPSK	1	1	15.62	15.78	15.73	17.5	0.0	
100	Pi/2 BPSK	1	137	15.61	15.66	15.73			
100	Pi/2 BPSK	1	271	15.66	15.67	15.67			
100	Pi/2 BPSK	135	0	15.64	15.75	15.62			
100	Pi/2 BPSK	135	69	15.58	15.74	15.68	17.5	0.0	
100	Pi/2 BPSK	135	138	15.70	15.72	15.73	17.5	0.0	
100	Pi/2 BPSK	270	0	15.70	15.69	15.65			
100	QPSK	1	1	15.73	15.80	15.75			
100	QPSK	1	137	15.67	15.69	15.67			
100	QPSK	1	271	15.72	15.77	15.73	17.5	0.0	
100	QPSK	135	0	15.63	15.72	15.64			
100	QPSK	135	69	15.68	15.75	15.71			
100	QPSK	135	138	15.60	15.70	15.60			
100	QPSK	270	0	15.62	15.72	15.70	17.5	0.0	
100	16QAM	1	1	15.62	15.70	15.74	17.5	0.0	
100	16QAM	1	1	15.72	15.76	15.66	17.5	0.0	
100	256QAM	1	1	15.58	15.72	15.70	17.5	0.0	
Channel									
				506000	518998	528998	Tune-up limit		
				2941	2942.99	2944.98	(dB)		
80	QPSK	1	1	15.59	15.76	15.69	17.5	0.0	
Channel									
				507204	518998	529998	Tune-up limit		
				2938.02	2942.99	2949.98	(dB)		
80	QPSK	1	1	15.71	15.76	15.67	17.5	0.0	
Channel									
				506200	518998	531998	Tune-up limit		
				2931.01	2942.99	2955	(dB)		
70	QPSK	1	1	15.64	15.70	15.72	17.5	0.0	
Channel									
				506200	518998	531998	Tune-up limit		
				2931.01	2942.99	2955.98	(dB)		
60	QPSK	1	1	15.66	15.68	15.68	17.5	0.0	
Channel									
				506004	518998	532998	Tune-up limit		
				2931.01	2942.99	2954.99	(dB)		
50	QPSK	1	1	15.59	15.75	15.62	17.5	0.0	
Channel									
				506002	518998	534000	Tune-up limit		
				2916.01	2942.99	2970	(dB)		
40	QPSK	1	1	15.68	15.74	15.69	17.5	0.0	
Channel									
				506200	518998	535998	Tune-up limit		
				2911	2942.99	2974.98	(dB)		
30	QPSK	1	1	15.64	15.65	15.60	17.5	0.0	
Channel									
				507204	518998	536998	Tune-up limit		
				2904.02	2942.99	2979.99	(dB)		
20	QPSK	1	1	15.64	15.76	15.64	17.5	0.0	
Channel									
				500700	518998	536498	Tune-up limit		
				2903.5	2942.99	2983.28	(dB)		
15	QPSK	1	1	15.68	15.70	15.68	17.5	0.0	
Channel									
				506002	518998	537000	Tune-up limit		
				2901.01	2942.99	2983	(dB)		
10	QPSK	1	1	15.65	15.67	15.73	17.5	0.0	



n41_Ant 1_HPUE								
EW (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				506002	518998	528000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	15.62	15.73	15.73		
100	PI2 BPSK	1	137	15.61	15.68	15.73	17.5	0.0
100	PI2 BPSK	1	271	15.66	15.67	15.67		
100	PI2 BPSK	135	0	15.64	15.75	15.62	17.5	0.0
100	PI2 BPSK	135	69	15.58	15.74	15.68	17.5	0.0
100	PI2 BPSK	135	138	15.70	15.72	15.73	17.5	0.0
100	PI2 BPSK	270	0	15.70	15.69	15.65		
100	QPSK	1	1	15.73	15.60	15.75		
100	QPSK	1	137	15.67	15.69	15.67	17.5	0.0
100	QPSK	1	271	15.72	15.77	15.73		
100	QPSK	135	0	15.63	15.72	15.64		
100	QPSK	135	69	15.68	15.75	15.71	17.5	0.0
100	QPSK	135	138	15.60	15.70	15.60		
100	QPSK	270	0	15.62	15.72	15.70	17.5	0.0
100	16QAM	1	1	15.62	15.70	15.74	17.5	0.0
100	64QAM	1	1	15.72	15.76	15.60	17.5	0.0
100	256QAM	1	1	15.58	15.72	15.70	17.5	0.0
Channel				506000	518998	528000		
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	15.60	15.78	15.60	17.5	0.0
Channel				507204	518998	528000		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	15.71	15.76	15.67	17.5	0.0
Channel				505200	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	15.64	15.70	15.72	17.5	0.0
Channel				502000	518998	531000		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	15.66	15.68	15.68	17.5	0.0
Channel				504204	518998	532000		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.59	15.75	15.62	17.5	0.0
Channel				503002	518998	536000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	15.65	15.74	15.69	17.5	0.0
Channel				502200	518998	535000		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.64	15.65	15.60	17.5	0.0
Channel				507004	518998	535000		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	15.64	15.76	15.64	17.5	0.0
Channel				500700	518998	538400		
Frequency (MHz)				2503.5	2592.99	2683.48		
15	QPSK	1	1	15.68	15.70	15.66	17.5	0.0
Channel				500002	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	15.65	15.67	15.73	17.5	0.0



n41_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	20.31	20.44	20.29			
100	PI2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0	
100	PI2 BPSK	1	271	20.21	20.27	20.22			
100	PI2 BPSK	155	0	20.16	20.28	20.20	22.0	0.0	
100	PI2 BPSK	155	69	20.15	20.21	20.11	22.0	0.0	
100	PI2 BPSK	155	138	20.11	20.23	20.21			
100	PI2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0	
100	QPSK	1	1	20.34	20.49	20.34			
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0	
100	QPSK	1	271	20.05	20.24	20.19			
100	QPSK	155	0	20.15	20.31	20.13			
100	QPSK	155	69	20.08	20.38	20.28	22.0	0.0	
100	QPSK	155	138	20.05	20.11	20.08			
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0	
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0	
100	64QAM	1	1	18.92	20.04	20.06	21.5	0.5	
100	256QAM	1	1	18.02	18.26	18.11	20.0	2.0	
Channel									
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	20.23	20.41	20.20	22.0	0.0	
Channel									
Frequency (MHz)				2572.04	2592.99	2609.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0	
Channel									
Frequency (MHz)				2631.01	2602.99	2655	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0	
Channel									
Frequency (MHz)				502000	518998	531996	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0	
Channel									
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0	
Channel									
Frequency (MHz)				505002	518998	534000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	20.16	20.29	20.70	22.0	0.0	
Channel									
Frequency (MHz)				505204	518998	535000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0	
Channel									
Frequency (MHz)				506002	518998	536000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0	
Channel									
Frequency (MHz)				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0	
Channel									
Frequency (MHz)				500002	518998	537000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0	

n41_Ant 2_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel									
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	20.31	20.44	20.29			
100	PI2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0	
100	PI2 BPSK	1	271	20.21	20.27	20.22			
100	PI2 BPSK	155	0	20.16	20.28	20.20	22.0	0.0	
100	PI2 BPSK	155	69	20.15	20.21	20.11	22.0	0.0	
100	PI2 BPSK	155	138	20.11	20.23	20.21			
100	PI2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0	
100	QPSK	1	1	20.34	20.49	20.34			
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0	
100	QPSK	1	271	20.05	20.24	20.19			
100	QPSK	155	0	20.15	20.31	20.13			
100	QPSK	155	69	20.08	20.38	20.28	22.0	0.0	
100	QPSK	155	138	20.05	20.11	20.08			
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0	
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0	
100	64QAM	1	1	18.92	20.04	20.06	21.5	0.5	
100	256QAM	1	1	18.02	18.26	18.11	20.0	2.0	
Channel									
Frequency (MHz)				2541	2592.99	2644.98	Tune-up limit (dBm)	MPR (dB)	
90	QPSK	1	1	20.23	20.41	20.20	22.0	0.0	
Channel									
Frequency (MHz)				2572.04	2592.99	2609.99	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0	
Channel									
Frequency (MHz)				2631.01	2602.99	2655	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0	
Channel									
Frequency (MHz)				502000	518998	531996	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0	
Channel									
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0	
Channel									
Frequency (MHz)				505002	518998	534000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	20.16	20.29	20.70	22.0	0.0	
Channel									
Frequency (MHz)				505204	518998	535000	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0	
Channel									
Frequency (MHz)				506002	518998	536000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0	
Channel									
Frequency (MHz)				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0	
Channel									
Frequency (MHz)				500002	518998	537000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0	



n41_Ant 5								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	528000		
Frequency (MHz)				2541.01	2592.99	2644.98		
100	PI2 BPSK	1	1	19.54	19.65	19.69		
100	PI2 BPSK	1	137	19.65	19.64	19.59	21.0	0.0
100	PI2 BPSK	1	271	19.68	19.72	19.63		
100	PI2 BPSK	135	0	19.69	19.65	19.65	21.0	0.0
100	PI2 BPSK	135	69	19.56	19.65	19.65	21.0	0.0
100	PI2 BPSK	135	138	19.64	19.72	19.65	21.0	0.0
100	PI2 BPSK	270	0	19.61	19.65	19.69		
100	QPSK	1	1	19.73	19.76	19.72		
100	QPSK	1	137	19.69	19.64	19.64	21.0	0.0
100	QPSK	1	271	19.61	19.65	19.63		
100	QPSK	135	0	19.64	19.69	19.62		
100	QPSK	135	69	19.59	19.74	19.67	21.0	0.0
100	QPSK	135	138	19.58	19.65	19.58		
100	QPSK	270	0	19.66	19.71	19.58	21.0	0.0
100	16QAM	1	1	19.56	19.76	19.58	21.0	0.0
100	64QAM	1	1	19.56	19.64	19.56	21.0	0.0
100	256QAM	1	1	19.56	19.72	19.57	20.5	0.5
Channel				506000	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.64	19.73	19.63	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.59	19.76	19.71	21.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	19.67	19.76	19.61	21.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2628.98		
60	QPSK	1	1	19.59	19.68	19.59	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2628.98		
50	QPSK	1	1	19.60	19.71	19.69	21.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.56	19.75	19.67	21.0	0.0
Channel				502200	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.56	19.75	19.62	21.0	0.0
Channel				507004	518598	536998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.56	19.64	19.69	21.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	19.64	19.64	19.67	21.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.60	19.70	19.59	21.0	0.0

n41_Ant 5_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	528000		
Frequency (MHz)				2541.01	2592.99	2644.98		
100	PI2 BPSK	1	1	19.53	19.65	19.69		
100	PI2 BPSK	1	137	19.65	19.64	19.59	21.0	0.0
100	PI2 BPSK	1	271	19.68	19.72	19.63		
100	PI2 BPSK	135	0	19.69	19.65	19.65	21.0	0.0
100	PI2 BPSK	135	69	19.56	19.65	19.65	21.0	0.0
100	PI2 BPSK	135	138	19.64	19.72	19.65	21.0	0.0
100	PI2 BPSK	270	0	19.61	19.65	19.69		
100	QPSK	1	1	19.73	19.76	19.72		
100	QPSK	1	137	19.69	19.64	19.64	21.0	0.0
100	QPSK	1	271	19.61	19.65	19.63		
100	QPSK	135	0	19.64	19.69	19.62		
100	QPSK	135	69	19.59	19.74	19.67	21.0	0.0
100	QPSK	135	138	19.58	19.65	19.58		
100	QPSK	270	0	19.66	19.71	19.58	21.0	0.0
100	16QAM	1	1	19.56	19.76	19.58	21.0	0.0
100	64QAM	1	1	19.56	19.64	19.56	21.0	0.0
100	256QAM	1	1	19.56	19.72	19.57	21.0	0.0
Channel				506000	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.64	19.73	19.63	21.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.59	19.76	19.71	21.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	19.67	19.76	19.61	21.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2628.98		
60	QPSK	1	1	19.59	19.68	19.59	21.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2628.98		
50	QPSK	1	1	19.60	19.71	19.69	21.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.56	19.75	19.67	21.0	0.0
Channel				502200	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.56	19.75	19.62	21.0	0.0
Channel				507004	518598	536998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.56	19.64	19.69	21.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	19.64	19.64	19.67	21.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.60	19.70	19.59	21.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Hgh. Ch. Freq.		
Channel				506202	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.97	21.01	20.91		
100	PI2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PI2 BPSK	1	271	20.93	21.11	20.89		
100	PI2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PI2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PI2 BPSK	135	138	20.76	21.01	20.89	22.5	0.0
100	PI2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.08		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	16QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506200	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.00	21.04	20.91	22.5	0.0
Channel				508200	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				509200	518598	531966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2524	2592.99	2659.98		
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.09	21.11	20.90	22.5	0.0
Channel				505202	518598	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.00	20.99	20.92	22.5	0.0
Channel				506200	518598	535966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518598	535966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518598	538498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.5	2592.99	2682.48		
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				506202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611.01	2592.99	2685		
10	QPSK	1	1	21.07	21.03	20.94	22.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	High Ch. Freq.		
Channel				506002	518998	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.84	22.74	22.67		
100	PI2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0
100	PI2 BPSK	1	271	22.71	22.93	22.61		
100	PI2 BPSK	135	0	22.26	22.14	22.28	24.0	0.5
100	PI2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0
100	PI2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5
100	PI2 BPSK	270	0	22.26	22.19	22.28		
100	QPSK	1	1	22.81	22.88	22.85		
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0
100	QPSK	1	271	22.61	22.48	22.63		
100	QPSK	135	0	21.73	21.75	21.76		
100	QPSK	135	69	22.61	22.67	22.61	24.5	0.0
100	QPSK	135	138	21.62	21.71	21.71		
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0
100	64QAM	1	1	20.48	20.64	20.48	22.0	2.5
100	256QAM	1	1	18.25	18.56	18.31	20.0	4.5
Channel				506000	518998	526000		
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	22.83	22.88	22.79	24.5	0.0
Channel				507204	518998	526000		
Frequency (MHz)				2536.02	2592.99	2648.98		
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0
Channel				508200	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0
Channel				509200	518998	531000		
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0
Channel				504204	518998	532000		
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	22.89	22.94	22.83	24.5	0.0
Channel				505202	518998	535000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.89	22.94	22.79	24.5	0.0
Channel				506200	518998	535000		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0
Channel				507204	518998	535000		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0
Channel				507000	518998	538400		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0
Channel				506202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq				
Channel				506002	518598	526000				
Frequency (MHz)				2549.01	2592.99	2640				
100	PI2 BPSK	1	1	21.53	21.53	21.45				
100	PI2 BPSK	1	137	21.40	21.54	21.40	22.5	0.0		
100	PI2 BPSK	1	271	21.52	21.53	21.41				
100	PI2 BPSK	135	0	21.41	21.49	21.40	22.5	0.0		
100	PI2 BPSK	135	69	21.43	21.48	21.43	22.5	0.0		
100	PI2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0		
100	PI2 BPSK	270	0	21.40	21.50	21.37				
100	QPSK	1	1	21.52	21.52	21.52				
100	QPSK	1	137	21.45	21.49	21.45	22.5	0.0		
100	QPSK	1	271	21.46	21.58	21.37				
100	QPSK	135	0	21.40	21.50	21.39				
100	QPSK	135	69	21.43	21.48	21.43	22.5	0.0		
100	QPSK	135	138	21.48	21.52	21.40				
100	QPSK	270	0	21.44	21.54	21.43	22.5	0.0		
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0		
100	64QAM	1	1	21.50	21.57	21.51	22.5	0.0		
100	256QAM	1	1	21.43	21.57	21.50	22.5	0.0		
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2541	2592.99	2644.98				
90	QPSK	1	1	21.44	21.54	21.48	22.5	0.0		
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2636.02	2692.99	2649.99				
80	QPSK	1	1	21.51	21.56	21.48	22.5	0.0		
Channel				2631.01	2692.99	2655	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				21.48	21.47	21.48	22.5	0.0		
70	QPSK	1	1	21.43	21.45	21.47	22.5	0.0		
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2626	2692.99	2669.98				
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2621.02	2692.99	2664.98				
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0		
Channel				505002	518598	535000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2618.01	2692.99	2670				
40	QPSK	1	1	21.40	21.43	21.42	22.5	0.0		
Channel				502200	518598	535996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2611	2692.99	2674.98				
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0		
Channel				507204	518598	536998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2606.02	2692.99	2679.99				
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0		
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2603.0	2692.99	2682.48				
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0		
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2597.01	2692.99	2685				
10	QPSK	1	1	21.51	21.49	21.49	22.5	0.0		

n41_Ant 9_HPUE										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq				
Channel				506002	518598	526000				
Frequency (MHz)				2549.01	2592.99	2640				
100	PI2 BPSK	1	1	21.53	21.53	21.45				
100	PI2 BPSK	1	137	21.40	21.54	21.40	22.5	0.0		
100	PI2 BPSK	1	271	21.52	21.53	21.41				
100	PI2 BPSK	135	0	21.41	21.49	21.40	22.5	0.0		
100	PI2 BPSK	135	69	21.43	21.48	21.43	22.5	0.0		
100	PI2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0		
100	PI2 BPSK	270	0	21.40	21.50	21.37				
100	QPSK	1	1	21.52	21.52	21.52				
100	QPSK	1	137	21.45	21.49	21.45	22.5	0.0		
100	QPSK	1	271	21.46	21.58	21.37				
100	QPSK	135	0	21.40	21.50	21.39				
100	QPSK	135	69	21.43	21.48	21.43	22.5	0.0		
100	QPSK	135	138	21.48	21.52	21.40				
100	QPSK	270	0	21.44	21.54	21.43	22.5	0.0		
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0		
100	64QAM	1	1	21.50	21.57	21.51	22.5	0.0		
100	256QAM	1	1	21.43	21.57	21.50	22.5	0.0		
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2541	2592.99	2644.98				
90	QPSK	1	1	21.44	21.54	21.48	22.5	0.0		
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2636.02	2692.99	2649.99				
80	QPSK	1	1	21.51	21.56	21.48	22.5	0.0		
Channel				2631.01	2692.99	2655	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				21.48	21.47	21.48	22.5	0.0		
70	QPSK	1	1	21.43	21.45	21.47	22.5	0.0		
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2626	2692.99	2669.98				
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2621.02	2692.99	2664.98				
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0		
Channel				505002	518598	535000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2618.01	2692.99	2670				
40	QPSK	1	1	21.40	21.43	21.42	22.5	0.0		
Channel				502200	518598	535996	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2611	2692.99	2674.98				
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0		
Channel				507204	518598	536998	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2606.02	2692.99	2679.99				
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0		
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2603.0	2692.99	2682.48				
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0		
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2597.01	2692.99	2685				
10	QPSK	1	1	21.51	21.49	21.49	22.5	0.0		



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel				636000	641666	645332			
Frequency (MHz)				3374	3024.99	3079.98			
40	PI2 BPSK	1	1	19.39	19.49	19.43			
40	PI2 BPSK	1	53	19.47	19.51	19.42	20.5	0.0	
40	PI2 BPSK	1	104	19.37	19.43	19.39			
40	PI2 BPSK	50	0	19.36	19.45	19.47	20.5	0.0	
40	PI2 BPSK	50	29	19.42	19.45	19.42	20.5	0.0	
40	PI2 BPSK	50	56	19.38	19.38	19.33			
40	PI2 BPSK	100	0	19.35	19.51	19.42	20.5	0.0	
40	QPSK	1	1	19.40	19.45	19.45			
40	QPSK	1	53	19.40	19.45	19.43	20.5	0.0	
40	QPSK	1	104	19.37	19.40	19.38			
40	QPSK	50	0	19.38	19.42	19.33			
40	QPSK	50	29	19.42	19.45	19.42	20.5	0.0	
40	QPSK	50	56	19.40	19.47	19.40			
40	QPSK	100	0	19.42	19.45	19.38	20.5	0.0	
40	16QAM	1	1	19.49	19.49	19.36	20.5	0.0	
40	64QAM	1	1	19.39	19.49	19.36	20.5	0.0	
40	256QAM	1	1	19.45	19.46	19.45	20.5	0.0	
Channel				637968	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3055.02	3024.99	3084.99			
30	QPSK	1	1	19.44	19.50	19.45	20.5	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3024.99	3690			
20	QPSK	1	1	19.45	19.51	19.34	20.5	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3024.99	3694.98			
10	QPSK	1	1	19.46	19.39	19.47	20.5	0.0	

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel				636000	641666	645332			
Frequency (MHz)				3374	3024.99	3079.98			
40	PI2 BPSK	1	1	13.65	13.73	13.69			
40	PI2 BPSK	1	53	13.68	13.67	13.69	15.0	0.0	
40	PI2 BPSK	1	104	13.66	13.72	13.71			
40	PI2 BPSK	50	0	13.55	13.73	13.62	15.0	0.0	
40	PI2 BPSK	50	29	13.58	13.64	13.69	15.0	0.0	
40	PI2 BPSK	50	56	13.56	13.69	13.58			
40	PI2 BPSK	100	0	13.57	13.71	13.71	15.0	0.0	
40	QPSK	1	1	13.70	13.77	13.72			
40	QPSK	1	53	13.66	13.69	13.69	15.0	0.0	
40	QPSK	1	104	13.65	13.67	13.65			
40	QPSK	50	0	13.57	13.65	13.58			
40	QPSK	50	29	13.67	13.70	13.71	15.0	0.0	
40	QPSK	50	56	13.60	13.68	13.58			
40	QPSK	100	0	13.68	13.69	13.66	15.0	0.0	
40	16QAM	1	1	13.56	13.73	13.66	15.0	0.0	
40	64QAM	1	1	13.55	13.76	13.62	15.0	0.0	
40	256QAM	1	1	13.69	13.74	13.70	15.0	0.0	
Channel				637968	641666	645666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3055.02	3024.99	3084.99			
30	QPSK	1	1	13.60	13.71	13.69	15.0	0.0	
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3560.01	3024.99	3690			
20	QPSK	1	1	13.56	13.75	13.71	15.0	0.0	
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3555	3024.99	3694.98			
10	QPSK	1	1	13.58	13.68	13.60	15.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3203	324.99	329.98	
40	Pl2 BPSK	1	1	16.03	15.99	16.04	17.0
40	Pl2 BPSK	1	53	15.93	16.10	16.09	0.0
40	Pl2 BPSK	1	104	15.94	16.08	16.01	0.0
40	Pl2 BPSK	50	0	16.02	16.03	16.00	17.0
40	Pl2 BPSK	50	26	15.96	16.03	15.96	0.0
40	Pl2 BPSK	50	56	16.00	16.01	16.06	0.0
40	Pl2 BPSK	100	0	15.93	16.11	16.06	17.0
40	QPSK	1	1	16.07	16.12	16.10	0.0
40	QPSK	1	53	16.06	15.97	15.96	17.0
40	QPSK	1	104	15.92	16.10	16.04	0.0
40	QPSK	50	0	15.97	15.98	15.97	0.0
40	QPSK	50	26	16.04	16.06	16.04	17.0
40	QPSK	50	56	15.96	15.97	16.02	0.0
40	QPSK	100	0	15.99	16.07	15.98	17.0
40	16QAM	1	1	15.99	16.07	16.06	0.0
40	16QAM	1	1	16.06	16.07	16.02	0.0
40	16QAM	1	1	15.95	16.01	15.97	0.0
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.98	
30	QPSK	1	1	15.99	16.08	16.01	17.0
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	15.96	16.01	16.09	0.0
Channel				635000	641666	645332	
Frequency (MHz)				3365	3624.99	3694.98	
10	QPSK	1	1	16.06	16.02	15.96	17.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3203	324.99	329.98	
40	Pl2 BPSK	1	1	21.83	22.05	21.99	23.0
40	Pl2 BPSK	1	53	21.89	21.96	21.82	0.0
40	Pl2 BPSK	1	104	21.86	22.05	21.82	0.0
40	Pl2 BPSK	50	0	21.96	21.95	21.82	23.0
40	Pl2 BPSK	50	26	21.93	22.03	21.92	0.0
40	Pl2 BPSK	50	56	21.88	22.02	21.88	0.0
40	Pl2 BPSK	100	0	21.88	21.98	21.83	23.0
40	QPSK	1	1	22.01	22.07	21.96	0.0
40	QPSK	1	53	22.00	22.06	21.94	23.0
40	QPSK	1	104	22.00	22.04	21.88	0.0
40	QPSK	50	0	21.92	22.00	21.82	0.0
40	QPSK	50	26	21.95	22.02	21.94	23.0
40	QPSK	50	56	21.87	21.79	21.69	0.0
40	QPSK	100	0	21.83	21.68	21.56	23.0
40	16QAM	1	1	21.99	22.00	21.96	0.0
40	16QAM	1	1	20.42	20.46	20.34	21.5
40	16QAM	1	1	19.30	19.45	19.31	3.5
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.98	
30	QPSK	1	1	21.93	21.92	21.85	23.0
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	21.91	21.92	21.80	23.0
Channel				635000	641666	645332	
Frequency (MHz)				3365	3624.99	3694.98	
10	QPSK	1	1	21.96	21.97	21.92	23.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel								
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	16.60	16.73	16.85		
100	Pl2 BPSK	1	137	16.59	16.65	16.58	17.5	0.0
100	Pl2 BPSK	1	271	16.56	16.68	16.66		
100	Pl2 BPSK	136	0	16.66	16.61	16.68	17.5	0.0
100	Pl2 BPSK	136	69	16.61	16.62	16.66	17.5	0.0
100	Pl2 BPSK	136	138	16.65	16.73	16.67	17.5	0.0
100	Pl2 BPSK	270	0	16.56	16.73	16.69		
100	QPSK	1	1	16.71	16.75	16.70		
100	QPSK	1	137	16.56	16.67	16.67	17.5	0.0
100	QPSK	1	271	16.63	16.70	16.68		
100	QPSK	136	0	16.66	16.66	16.58		
100	QPSK	136	69	16.66	16.71	16.65	17.5	0.0
100	QPSK	136	138	16.61	16.69	16.60		
100	QPSK	270	0	16.56	16.65	16.62	17.5	0.0
100	16QAM	1	1	16.57	16.69	16.65	17.5	0.0
100	16QAM	1	1	16.66	16.62	16.57	17.5	0.0
100	16QAM	1	1	16.62	16.65	16.56	17.5	0.0
Channel								
Frequency (MHz)				3745.02	3840	3934.98	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	16.65	16.68	16.60	17.5	0.0
Channel								
Frequency (MHz)				3740.01	3840	3939.99	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	16.69	16.68	16.64	17.5	0.0
Channel								
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	16.66	16.63	16.61	17.5	0.0
Channel								
Frequency (MHz)				3730.01	3840	3950.99	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	16.70	16.65	16.61	17.5	0.0
Channel								
Frequency (MHz)				3725.01	3840	3956.99	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	16.59	16.67	16.69	17.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	16.67	16.68	16.58	17.5	0.0
Channel								
Frequency (MHz)				3715.02	3840.00	3964.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.69	16.64	16.61	17.5	0.0
Channel								
Frequency (MHz)				3710.01	3840	3969.99	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	16.67	16.65	16.61	17.5	0.0
Channel								
Frequency (MHz)				3705.02	3840	3974.98	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.56	16.64	16.67	17.5	0.0
Channel								
Frequency (MHz)				3700	3840	3975	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.68	16.63	16.65	17.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel								
Frequency (MHz)				3750	3840	3930		
100	Pl2 BPSK	1	1	16.60	16.73	16.85		
100	Pl2 BPSK	1	137	16.59	16.65	16.58	17.5	0.0
100	Pl2 BPSK	1	271	16.56	16.68	16.66		
100	Pl2 BPSK	136	0	16.66	16.61	16.68	17.5	0.0
100	Pl2 BPSK	136	69	16.61	16.62	16.66	17.5	0.0
100	Pl2 BPSK	136	138	16.65	16.73	16.67	17.5	0.0
100	Pl2 BPSK	270	0	16.56	16.73	16.69		
100	QPSK	1	1	16.71	16.75	16.70		
100	QPSK	1	137	16.56	16.67	16.67	17.5	0.0
100	QPSK	1	271	16.63	16.70	16.68		
100	QPSK	136	0	16.66	16.66	16.58		
100	QPSK	136	69	16.66	16.71	16.65	17.5	0.0
100	QPSK	136	138	16.61	16.69	16.60		
100	QPSK	270	0	16.56	16.65	16.62	17.5	0.0
100	16QAM	1	1	16.57	16.69	16.65	17.5	0.0
100	16QAM	1	1	16.66	16.62	16.57	17.5	0.0
100	16QAM	1	1	16.62	16.65	16.56	17.5	0.0
Channel								
Frequency (MHz)				3745.02	3840	3934.98	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	16.65	16.68	16.60	17.5	0.0
Channel								
Frequency (MHz)				3740.01	3840	3939.99	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	16.69	16.68	16.64	17.5	0.0
Channel								
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	16.66	16.63	16.61	17.5	0.0
Channel								
Frequency (MHz)				3730.01	3840	3950.99	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	16.70	16.65	16.61	17.5	0.0
Channel								
Frequency (MHz)				3725.01	3840	3956.99	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	16.59	16.67	16.69	17.5	0.0
Channel								
Frequency (MHz)				3720	3840	3960	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	16.67	16.68	16.58	17.5	0.0
Channel								
Frequency (MHz)				3715.02	3840.00	3964.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.69	16.64	16.61	17.5	0.0
Channel								
Frequency (MHz)				3710.01	3840	3969.99	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	16.67	16.65	16.61	17.5	0.0
Channel								
Frequency (MHz)				3705.02	3840	3974.98	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.56	16.64	16.67	17.5	0.0
Channel								
Frequency (MHz)				3700	3840	3975	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.68	16.63	16.65	17.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel								
Frequency (MHz)				3493.98				
100	Pl2 BPSK	1	1	16.61				
100	Pl2 BPSK	1	137	16.59			17.5	0.0
100	Pl2 BPSK	1	271	16.67				
100	Pl2 BPSK	136	0	16.58			17.5	0.0
100	Pl2 BPSK	136	69	16.61			17.5	0.0
100	Pl2 BPSK	136	138	16.70			17.5	0.0
100	Pl2 BPSK	270	0	16.56				
100	QPSK	1	1	16.71				
100	QPSK	1	137	16.61			17.5	0.0
100	QPSK	1	271	16.69				
100	QPSK	136	0	16.57				
100	QPSK	136	69	16.69			17.5	0.0
100	QPSK	136	138	16.61				
100	QPSK	270	0	16.56			17.5	0.0
100	16QAM	1	1	16.68			17.5	0.0
100	16QAM	1	1	16.63			17.5	0.0
100	16QAM	1	1	16.59			17.5	0.0
Channel								
Frequency (MHz)				63000	63352	63698	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	16.57	16.62	16.59	17.5	0.0
Channel								
Frequency (MHz)				63068	63352	63698	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	16.59	16.58	16.66	17.5	0.0
Channel								
Frequency (MHz)				63136	63352	63698	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	16.57	16.61	16.63	17.5	0.0
Channel								
Frequency (MHz)				63200	63352	63698	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	16.48	16.62	16.52	17.5	0.0
Channel								
Frequency (MHz)				63268	63352	63698	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	16.59	16.69	16.62	17.5	0.0
Channel								
Frequency (MHz)				63334	63352	63698	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	16.57	16.62	16.58	17.5	0.0
Channel								
Frequency (MHz)				63402	63352	63698	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	16.61	16.62	16.52	17.5	0.0
Channel								
Frequency (MHz)				63466	63352	63698	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	16.61	16.61	16.66	17.5	0.0
Channel								
Frequency (MHz)				63534	63352	63698	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	16.56	16.56	16.60	17.5	0.0
Channel								
Frequency (MHz)				63602	63352	63698	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	16.57	16.66	16.55	17.5	0.0



Par27Q n77_Ant 4_HPUE									
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	16.61	3499.88				
100	PI2 BPSK	1	137	16.59	3499.88		17.5	0.0	
100	PI2 BPSK	1	271	16.67					
100	PI2 BPSK	135	0	16.58			17.5	0.0	
100	PI2 BPSK	135	69	16.61			17.5	0.0	
100	PI2 BPSK	135	138	16.70			17.5	0.0	
100	PI2 BPSK	270	0	16.58					
100	QPSK	1	1	16.71					
100	QPSK	1	137	16.61			17.5	0.0	
100	QPSK	1	271	16.69					
100	QPSK	135	0	16.57					
100	QPSK	135	69	16.69			17.5	0.0	
100	QPSK	135	138	16.61			17.5	0.0	
100	QPSK	270	0	16.58					
100	16QAM	1	1	16.68			17.5	0.0	
100	64QAM	1	1	16.63			17.5	0.0	
100	256QAM	1	1	16.59			17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.57	16.62	16.59	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.59	16.58	16.66	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.57	16.61	16.63	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.48	16.62	16.52	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.59	16.69	16.62	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.57	16.61	16.63	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.61	16.62	16.52	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.61	16.61	16.61	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.56	16.58	16.60	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.57	16.60	16.55	17.5	0.0	

Par27Q n77_Ant 7									
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	13.93	3792	3840	13.92		
100	PI2 BPSK	1	137	13.94	3792	3840	15.5	0.0	
100	PI2 BPSK	1	271	13.97	3840	3920			
100	PI2 BPSK	135	0	13.89	3792	3840	15.5	0.0	
100	PI2 BPSK	135	69	13.97	3840	3920	15.5	0.0	
100	PI2 BPSK	135	138	14.00	3840	3920	15.5	0.0	
100	PI2 BPSK	270	0	14.00	3840	3920			
100	QPSK	1	1	14.03	3840	3920			
100	QPSK	1	137	13.93	3840	3920	15.5	0.0	
100	QPSK	1	271	13.95	3840	3920			
100	QPSK	135	0	13.94	3840	3920			
100	QPSK	135	69	13.97	3840	3920	15.5	0.0	
100	QPSK	135	138	14.00	3840	3920	15.5	0.0	
100	QPSK	270	0	13.93	3840	3920			
100	16QAM	1	1	13.94	3840	3920	15.5	0.0	
100	64QAM	1	1	13.98	3840	3920	15.5	0.0	
100	256QAM	1	1	13.93	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.91	3792	3840	14.04	15.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.90	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.93	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.90	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.94	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.90	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.97	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.97	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.02	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.90	3840	3920	15.5	0.0	

Par27Q n77_Ant 7_HPUE									
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	13.93	3792	3840	13.92		
100	PI2 BPSK	1	137	13.94	3792	3840	15.5	0.0	
100	PI2 BPSK	1	271	13.97	3840	3920			
100	PI2 BPSK	135	0	13.89	3792	3840	15.5	0.0	
100	PI2 BPSK	135	69	13.97	3840	3920	15.5	0.0	
100	PI2 BPSK	135	138	14.00	3840	3920	15.5	0.0	
100	PI2 BPSK	270	0	14.00	3840	3920			
100	QPSK	1	1	14.03	3840	3920			
100	QPSK	1	137	13.93	3840	3920	15.5	0.0	
100	QPSK	1	271	13.95	3840	3920			
100	QPSK	135	0	13.94	3840	3920			
100	QPSK	135	69	13.97	3840	3920	15.5	0.0	
100	QPSK	135	138	14.00	3840	3920	15.5	0.0	
100	QPSK	270	0	13.93	3840	3920			
100	16QAM	1	1	13.94	3840	3920	15.5	0.0	
100	64QAM	1	1	13.98	3840	3920	15.5	0.0	
100	256QAM	1	1	13.93	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.91	3792	3840	14.04	15.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.90	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.93	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	13.90	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.94	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.90	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.97	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.97	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.02	3840	3920	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	13.90	3840	3920	15.5	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)								
100	PI2 BPSK	1	1	14.04	3499.98			
100	PI2 BPSK	1	137	13.98			15.5	0.0
100	PI2 BPSK	1	271	14.02				
100	PI2 BPSK	135	0	13.93			15.5	0.0
100	PI2 BPSK	135	69	13.98			15.5	0.0
100	PI2 BPSK	135	138	14.03			15.5	0.0
100	PI2 BPSK	270	0	14.03				
100	QPSK	1	1	14.05				
100	QPSK	1	137	13.98			15.5	0.0
100	QPSK	1	271	14.04				
100	QPSK	135	0	13.96			15.5	0.0
100	QPSK	135	69	14.00			15.5	0.0
100	QPSK	135	138	13.90			15.5	0.0
100	QPSK	270	0	13.91			15.5	0.0
100	16QAM	1	1	13.93			15.5	0.0
100	64QAM	1	1	13.92			15.5	0.0
100	256QAM	1	1	13.92			15.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	13.92	3384	3381	15.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.82	3499.98	3510	15.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.91	3499.98	3514.98	15.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.88	3499.98	3518	15.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.82	3499.98	3520	15.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.84	3499.98	3529.98	15.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.92	3499.98	3534.99	15.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.94	3499.98	3540	15.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	13.88	3499.98	3542.99	15.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	13.88	3499.98	3544.98	15.5	0.0

Par27Q n77_Ant 7_HPUE

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	14.04	3499.98			
100	PI2 BPSK	1	137	13.98			15.5	0.0
100	PI2 BPSK	1	271	14.02				
100	PI2 BPSK	135	0	13.93			15.5	0.0
100	PI2 BPSK	135	69	13.98			15.5	0.0
100	PI2 BPSK	135	138	14.03			15.5	0.0
100	PI2 BPSK	270	0	14.03				
100	QPSK	1	1	14.05				
100	QPSK	1	137	13.98			15.5	0.0
100	QPSK	1	271	14.04				
100	QPSK	135	0	13.96			15.5	0.0
100	QPSK	135	69	14.00			15.5	0.0
100	QPSK	135	138	13.90			15.5	0.0
100	QPSK	270	0	13.91			15.5	0.0
100	16QAM	1	1	13.93			15.5	0.0
100	64QAM	1	1	13.92			15.5	0.0
100	256QAM	1	1	13.92			15.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	13.92	3384	3381	15.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	13.82	3499.98	3510	15.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	13.91	3499.98	3514.98	15.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	13.88	3499.98	3518	15.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	13.82	3499.98	3520	15.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	13.84	3499.98	3529.98	15.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	13.92	3499.98	3534.99	15.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	13.94	3499.98	3540	15.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	13.88	3499.98	3542.99	15.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	13.88	3499.98	3544.98	15.5	0.0

Par27Q n77_Ant 8

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	15.51	3762	3740	15.0	
100	PI2 BPSK	1	137	15.54	15.63	15.61	17.0	0.0
100	PI2 BPSK	1	271	15.58	15.61	15.59		
100	PI2 BPSK	135	0	15.55	15.58	15.55	17.0	0.0
100	PI2 BPSK	135	69	15.50	15.56	15.57	17.0	0.0
100	PI2 BPSK	135	138	15.50	15.62	15.52	17.0	0.0
100	PI2 BPSK	270	0	15.53	15.57	15.55		
100	QPSK	1	1	15.60	15.68	15.63		
100	QPSK	1	137	15.59	15.59	15.52	17.0	0.0
100	QPSK	1	271	15.51	15.55	15.59		
100	QPSK	135	0	15.50	15.60	15.57		
100	QPSK	135	69	15.55	15.65	15.59	17.0	0.0
100	QPSK	135	138	15.52	15.53	15.54	17.0	0.0
100	QPSK	270	0	15.45	15.60	15.58	17.0	0.0
100	16QAM	1	1	15.51	15.63	15.59	17.0	0.0
100	64QAM	1	1	15.55	15.57	15.56	17.0	0.0
100	256QAM	1	1	15.53	15.66	15.53	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.54	15.54	15.62	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.53	15.58	15.48	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.59	15.57	15.50	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.48	15.65	15.57	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.49	15.68	15.56	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.51	15.63	15.58	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.48	15.64	15.59	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.56	15.60	15.62	17.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.49	15.67	15.57	17.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.52	15.56	15.50	17.0	0.0



Par270 n77_Ant 8_HPUE									
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	15.51	15.53	15.51			
100	PI2 BPSK	1	137	15.54	15.54	15.50	17.0	0.0	
100	PI2 BPSK	1	271	15.56	15.61	15.56			
100	PI2 BPSK	135	0	15.55	15.56	15.55	17.0	0.0	
100	PI2 BPSK	135	69	15.50	15.55	15.57	17.0	0.0	
100	PI2 BPSK	135	138	15.50	15.62	15.52			
100	PI2 BPSK	270	0	15.53	15.57	15.58	17.0	0.0	
100	QPSK	1	1	15.50	15.68	15.63			
100	QPSK	1	137	15.56	15.59	15.52	17.0	0.0	
100	QPSK	1	271	15.51	15.55	15.59			
100	QPSK	135	0	15.50	15.60	15.57			
100	QPSK	135	69	15.50	15.66	15.59	17.0	0.0	
100	QPSK	135	138	15.52	15.53	15.54			
100	QPSK	270	0	15.45	15.60	15.58	17.0	0.0	
100	16QAM	1	1	15.51	15.63	15.59	17.0	0.0	
100	64QAM	1	1	15.56	15.57	15.56	17.0	0.0	
100	256QAM	1	1	15.53	15.66	15.53	17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.54	15.54	15.62	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.53	15.56	15.48	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.59	15.57	15.50	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.46	15.65	15.57	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.49	15.66	15.56	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.51	15.63	15.59	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.46	15.64	15.59	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.56	15.60	15.62	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.49	15.67	15.57	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.52	15.56	15.50	17.0	0.0	

Par270 n77_Ant 8									
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	14.83					
100	PI2 BPSK	1	137	14.80			16.5	0.0	
100	PI2 BPSK	1	271	14.91					
100	PI2 BPSK	135	0	14.81			16.5	0.0	
100	PI2 BPSK	135	69	14.85			16.5	0.0	
100	PI2 BPSK	135	138	14.91					
100	PI2 BPSK	270	0	14.88			16.5	0.0	
100	QPSK	1	1	14.85					
100	QPSK	1	137	14.89			16.5	0.0	
100	QPSK	1	271	14.87					
100	QPSK	135	0	14.82					
100	QPSK	135	69	14.89			16.5	0.0	
100	QPSK	135	138	14.84					
100	QPSK	270	0	14.87			16.5	0.0	
100	16QAM	1	1	14.92			16.5	0.0	
100	64QAM	1	1	14.83			16.5	0.0	
100	256QAM	1	1	14.93			16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.80	14.80	14.79	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.82	14.89	14.81	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.83	14.87	14.83	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.82	14.81	14.81	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.75	14.83	14.79	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.89	14.84	14.81	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.87	14.81	14.80	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.82	14.83	14.79	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.83	14.82	14.89	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.82	14.80	14.83	16.5	0.0	

Par270 n77_Ant 8_HPUE									
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	15.62					
100	PI2 BPSK	1	137	15.57			17.0	0.0	
100	PI2 BPSK	1	271	15.61					
100	PI2 BPSK	135	0	15.53			17.0	0.0	
100	PI2 BPSK	135	69	15.56			17.0	0.0	
100	PI2 BPSK	135	138	15.49					
100	PI2 BPSK	270	0	15.61			17.0	0.0	
100	QPSK	1	1	15.64					
100	QPSK	1	137	15.56			17.0	0.0	
100	QPSK	1	271	15.54					
100	QPSK	135	0	15.53					
100	QPSK	135	69	15.54			17.0	0.0	
100	QPSK	135	138	15.53					
100	QPSK	270	0	15.52			17.0	0.0	
100	16QAM	1	1	15.54			17.0	0.0	
100	64QAM	1	1	15.59			17.0	0.0	
100	256QAM	1	1	15.49			17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.48	15.61	15.58	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.48	15.50	15.54	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.53	15.55	15.58	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.48	15.52	15.47	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.54	15.55	15.48	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.52	15.53	15.53	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.49	15.56	15.54	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.48	15.62	15.59	17.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.49	15.63	15.46	17.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.52	15.52	15.59	17.0	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)				3750	3840	3930		
100	Pi2 BPSK	1	1	17.74	17.79	17.72		
100	Pi2 BPSK	1	137	17.68	17.76	17.73	19.0	0.0
100	Pi2 BPSK	1	271	17.65	17.69	17.66		
100	Pi2 BPSK	136	0	17.71	17.73	17.61	19.0	0.0
100	Pi2 BPSK	136	69	17.78	17.70	17.65	19.0	0.0
100	Pi2 BPSK	136	138	17.66	17.70	17.70	19.0	0.0
100	Pi2 BPSK	270	0	17.68	17.68	17.65		
100	QPSK	1	1	17.80	17.82	17.70		
100	QPSK	1	137	17.66	17.76	17.64	19.0	0.0
100	QPSK	1	271	17.79	17.67	17.75		
100	QPSK	136	0	17.68	17.69	17.65		
100	QPSK	136	69	17.72	17.76	17.68	19.0	0.0
100	QPSK	136	138	17.70	17.67	17.82		
100	QPSK	270	0	17.74	17.77	17.68	19.0	0.0
100	16QAM	1	1	17.78	17.71	17.61	19.0	0.0
100	16QAM	1	1	17.69	17.77	17.65	19.0	0.0
100	256QAM	1	1	17.66	17.81	17.61	19.0	0.0
Channel								
Frequency (MHz)				3745.02	3840	3934.98		
90	QPSK	1	1	17.73	17.72	17.62	19.0	0.0
Channel								
Frequency (MHz)				3740.01	3840	3939.99		
80	QPSK	1	1	17.66	17.71	17.67	19.0	0.0
Channel								
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	17.75	17.81	17.64	19.0	0.0
Channel								
Frequency (MHz)				3730	3840	3945		
60	QPSK	1	1	17.79	17.70	17.73	19.0	0.0
Channel								
Frequency (MHz)				3725.01	3840	3949.99		
50	QPSK	1	1	17.72	17.73	17.65	19.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	17.71	17.81	17.67	19.0	0.0
Channel								
Frequency (MHz)				3715.02	3840.00	3964.98		
30	QPSK	1	1	17.73	17.69	17.72	19.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3969.99		
20	QPSK	1	1	17.71	17.67	17.66	19.0	0.0
Channel								
Frequency (MHz)				3705.02	3840	3974.98		
15	QPSK	1	1	17.74	17.79	17.75	19.0	0.0
Channel								
Frequency (MHz)				3700	3840	3975		
10	QPSK	1	1	17.77	17.70	17.82	19.0	0.0

Par270 n77_Ant 10_HPUE

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)				3750	3840	3930		
100	Pi2 BPSK	1	1	19.63	19.65	19.59		
100	Pi2 BPSK	1	137	19.58	19.63	19.68	21.0	0.0
100	Pi2 BPSK	1	271	19.55	19.68	19.59		
100	Pi2 BPSK	136	0	19.66	19.60	19.66	21.0	0.0
100	Pi2 BPSK	136	69	19.61	19.65	19.62	21.0	0.0
100	Pi2 BPSK	136	138	19.56	19.65	19.62	21.0	0.0
100	Pi2 BPSK	270	0	19.68	19.73	19.62		
100	QPSK	1	1	19.70	19.75	19.72		
100	QPSK	1	137	19.62	19.69	19.63	21.0	0.0
100	QPSK	1	271	19.68	19.72	19.80		
100	QPSK	136	0	19.67	19.69	19.69		
100	QPSK	136	69	19.66	19.71	19.70	21.0	0.0
100	QPSK	136	138	19.66	19.80	19.66		
100	QPSK	270	0	19.61	19.62	19.58	21.0	0.0
100	16QAM	1	1	19.67	19.73	19.67	21.0	0.0
100	16QAM	1	1	19.55	19.72	19.69	21.0	0.0
100	256QAM	1	1	19.11	19.16	19.14	20.5	0.5
Channel								
Frequency (MHz)				3745.02	3840	3934.98		
90	QPSK	1	1	19.56	19.63	19.59	21.0	0.0
Channel								
Frequency (MHz)				3740.01	3840	3939.99		
80	QPSK	1	1	19.68	19.67	19.62	21.0	0.0
Channel								
Frequency (MHz)				3735	3840	3945		
70	QPSK	1	1	19.66	19.67	19.70	21.0	0.0
Channel								
Frequency (MHz)				3730	3840	3945		
60	QPSK	1	1	19.67	19.71	19.71	21.0	0.0
Channel								
Frequency (MHz)				3725.01	3840	3949.99		
50	QPSK	1	1	19.59	19.68	19.64	21.0	0.0
Channel								
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	19.66	19.62	19.69	21.0	0.0
Channel								
Frequency (MHz)				3715.02	3840.00	3964.98		
30	QPSK	1	1	19.64	19.66	19.58	21.0	0.0
Channel								
Frequency (MHz)				3710.01	3840	3969.99		
20	QPSK	1	1	19.55	19.65	19.69	21.0	0.0
Channel								
Frequency (MHz)				3705.02	3840	3974.98		
15	QPSK	1	1	19.61	19.69	19.69	21.0	0.0
Channel								
Frequency (MHz)				3700	3840	3975		
10	QPSK	1	1	19.61	19.71	19.62	21.0	0.0

Par27Q n77_Ant 10

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)				3495.98				
100	Pi2 BPSK	1	1	17.87				
100	Pi2 BPSK	1	137	17.75			19.0	0.0
100	Pi2 BPSK	1	271	17.76				
100	Pi2 BPSK	136	0	17.73			19.0	0.0
100	Pi2 BPSK	136	69	17.76			19.0	0.0
100	Pi2 BPSK	136	138	17.83			19.0	0.0
100	Pi2 BPSK	270	0	17.85				
100	QPSK	1	1	17.88				
100	QPSK	1	137	17.76			19.0	0.0
100	QPSK	1	271	17.80				
100	QPSK	136	0	17.73				
100	QPSK	136	69	17.81			19.0	0.0
100	QPSK	136	138	17.74				
100	QPSK	270	0	17.75			19.0	0.0
100	16QAM	1	1	17.87			19.0	0.0
100	16QAM	1	1	17.77			19.0	0.0
100	256QAM	1	1	17.82			19.0	0.0
Channel								
Frequency (MHz)				3495.98	3495.98	3504.98		
90	QPSK	1	1	17.77	17.75	17.81	19.0	0.0
Channel								
Frequency (MHz)				3490.99	3490.99	3500.99		
80	QPSK	1	1	17.67	17.84	17.86	19.0	0.0
Channel								
Frequency (MHz)				3485.01	3489.98	3514.98		
70	QPSK	1	1	17.79	17.76	17.86	19.0	0.0
Channel								
Frequency (MHz)				3480.00	3480.00	3519.98		
60	QPSK	1	1	17.75	17.87	17.87	19.0	0.0
Channel								
Frequency (MHz)				3475.00	3475.00	3524.98		
50	QPSK	1	1	17.77	17.81	17.82	19.0	0.0
Channel								
Frequency (MHz)				3470.01	3470.01	3529.98		
40	QPSK	1	1	17.80	17.78	17.83	19.0	0.0
Channel								
Frequency (MHz)				3465.00	3465.00	3534.98		
30	QPSK	1	1	17.76	17.73	17.87	19.0	0.0
Channel								
Frequency (MHz)				3460.00	3460.00	3539.98		
20	QPSK	1	1	17.74	17.78	17.82	19.0	0.0
Channel								
Frequency (MHz)				3455.00	3455.00	3544.98		
15	QPSK	1	1	17.87	17.81	17.76	19.0	0.0
Channel								
Frequency (MHz)				3450.01	3450.01	3549.98		
10	QPSK	1	1	17.85	17.76	17.87	19.0	0.0



Par27Q n77_Ant 10_HPUE

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	Pl2 BPSK	1	1	3499.98				
100	Pl2 BPSK	1	137	19.78			21.0	0.0
100	Pl2 BPSK	1	271	19.70				
100	Pl2 BPSK	1	271	19.81				
100	Pl2 BPSK	136	0	19.78			21.0	0.0
100	Pl2 BPSK	136	69	19.72			21.0	0.0
100	Pl2 BPSK	136	138	19.69			21.0	0.0
100	Pl2 BPSK	270	0	19.69			21.0	0.0
100	QPSK	1	1	19.83				
100	QPSK	1	137	19.76			21.0	0.0
100	QPSK	1	271	19.68				
100	QPSK	136	0	19.78				
100	QPSK	136	69	19.79			21.0	0.0
100	QPSK	136	138	19.68				
100	QPSK	270	0	19.68			21.0	0.0
100	16QAM	1	1	19.79			21.0	0.0
100	16QAM	1	1	19.73			21.0	0.0
100	16QAM	1	1	19.17			20.5	0.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.71	19.82	19.78	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3499.02	3499.98	3510		
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.71	19.68	19.82	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.71	19.77	19.74	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.69	19.70	19.74	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.71	19.70	19.77	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.71	19.70	19.77	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.71	19.68	19.81	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.70	19.72	19.72	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.82	19.78	19.81	21.0	0.0

Par270 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)								
100	Pl2 BPSK	1	1	3750				
100	Pl2 BPSK	1	137	16.58			17.5	0.0
100	Pl2 BPSK	1	271	16.57				
100	Pl2 BPSK	1	271	16.61				
100	Pl2 BPSK	136	0	16.60			17.5	0.0
100	Pl2 BPSK	136	69	16.54			17.5	0.0
100	Pl2 BPSK	136	138	16.61			17.5	0.0
100	Pl2 BPSK	270	0	16.67			17.5	0.0
100	QPSK	1	1	16.68				
100	QPSK	1	137	16.56			17.5	0.0
100	QPSK	1	271	16.53				
100	QPSK	136	0	16.62				
100	QPSK	136	69	16.63			17.5	0.0
100	QPSK	136	138	16.58				
100	QPSK	270	0	16.62			17.5	0.0
100	16QAM	1	1	16.64			17.5	0.0
100	16QAM	1	1	16.63			17.5	0.0
100	16QAM	1	1	16.58			17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3745.02	3750	3754.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.58	16.63	16.59	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.61	16.65	16.55	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.58	16.58	16.56	17.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.50	16.63	16.54	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.62	16.57	16.64	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.54	16.59	16.60	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.62	16.57	16.65	17.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.66	16.66	16.58	17.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.68	16.67	16.59	17.5	0.0

Par270 n78_Ant 4_HPUE

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	Pl2 BPSK	1	1	3750				
100	Pl2 BPSK	1	137	16.59			17.5	0.0
100	Pl2 BPSK	1	271	16.57				
100	Pl2 BPSK	1	271	16.61				
100	Pl2 BPSK	136	0	16.60			17.5	0.0
100	Pl2 BPSK	136	69	16.54			17.5	0.0
100	Pl2 BPSK	136	138	16.61			17.5	0.0
100	Pl2 BPSK	270	0	16.67			17.5	0.0
100	QPSK	1	1	16.68				
100	QPSK	1	137	16.56			17.5	0.0
100	QPSK	1	271	16.53				
100	QPSK	136	0	16.62				
100	QPSK	136	69	16.63			17.5	0.0
100	QPSK	136	138	16.58				
100	QPSK	270	0	16.62			17.5	0.0
100	16QAM	1	1	16.64			17.5	0.0
100	16QAM	1	1	16.63			17.5	0.0
100	16QAM	1	1	16.58			17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3745.02	3750	3754.98		
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.58	16.63	16.59	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.61	16.65	16.55	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.58	16.58	16.56	17.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.50	16.63	16.54	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.62	16.57	16.64	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.54	16.59	16.60	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.62	16.57	16.65	17.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.66	16.66	16.58	17.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	16.68	16.67	16.59	17.5	0.0



Part27Q 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)									
100	PI2 BPSK	1	1	16.50	16.50	16.50			
100	PI2 BPSK	1	137	16.56	16.56	16.56	17.5	0.0	
100	PI2 BPSK	1	271	16.56	16.56	16.56			
100	PI2 BPSK	135	0	16.61	16.61	16.61	17.5	0.0	
100	PI2 BPSK	135	69	16.51	16.51	16.51	17.5	0.0	
100	PI2 BPSK	135	138	16.51	16.51	16.51	17.5	0.0	
100	PI2 BPSK	270	0	16.54	16.54	16.54			
100	QPSK	1	1	16.64	16.64	16.64			
100	QPSK	1	137	16.57	16.57	16.57	17.5	0.0	
100	QPSK	1	271	16.63	16.63	16.63			
100	QPSK	135	0	16.50	16.50	16.50	17.5	0.0	
100	QPSK	135	69	16.58	16.58	16.58	17.5	0.0	
100	QPSK	135	138	16.52	16.52	16.52	17.5	0.0	
100	QPSK	270	0	16.56	16.56	16.56	17.5	0.0	
100	16QAM	1	1	16.52	16.52	16.52	17.5	0.0	
100	64QAM	1	1	16.59	16.59	16.59	17.5	0.0	
100	256QAM	1	1	16.40	16.40	16.40	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.63	16.64	16.64	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.58	16.60	16.63	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.54	16.59	16.54	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.56	16.61	16.63	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.50	16.55	16.56	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.62	16.61	16.67	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.56	16.62	16.61	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.61	16.59	16.61	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.51	16.61	16.50	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.54	16.61	16.62	17.5	0.0	

Part27Q n78_Ant 4_HPUE									
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	16.50	16.50	16.50			
100	PI2 BPSK	1	137	16.56	16.56	16.56	17.5	0.0	
100	PI2 BPSK	1	271	16.56	16.56	16.56			
100	PI2 BPSK	135	0	16.61	16.61	16.61	17.5	0.0	
100	PI2 BPSK	135	69	16.51	16.51	16.51	17.5	0.0	
100	PI2 BPSK	135	138	16.51	16.51	16.51	17.5	0.0	
100	PI2 BPSK	270	0	16.54	16.54	16.54			
100	QPSK	1	1	16.64	16.64	16.64			
100	QPSK	1	137	16.57	16.57	16.57	17.5	0.0	
100	QPSK	1	271	16.63	16.63	16.63			
100	QPSK	135	0	16.50	16.50	16.50	17.5	0.0	
100	QPSK	135	69	16.58	16.58	16.58	17.5	0.0	
100	QPSK	135	138	16.52	16.52	16.52	17.5	0.0	
100	QPSK	270	0	16.56	16.56	16.56	17.5	0.0	
100	16QAM	1	1	16.52	16.52	16.52	17.5	0.0	
100	64QAM	1	1	16.59	16.59	16.59	17.5	0.0	
100	256QAM	1	1	16.40	16.40	16.40	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.63	16.64	16.64	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.58	16.60	16.63	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.54	16.59	16.54	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.56	16.61	16.63	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.50	16.55	16.56	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.62	16.61	16.67	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.56	16.62	16.61	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.61	16.59	16.61	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.51	16.61	16.50	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.54	16.61	16.62	17.5	0.0	



Par270 n78_Ant 7									
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)									
100	PI2 BPSK	1	1	14.20	14.20	14.20			
100	PI2 BPSK	1	137	14.21	14.21	14.21	15.5	0.0	
100	PI2 BPSK	1	271	14.28	14.28	14.28			
100	PI2 BPSK	135	0	14.21	14.21	14.21	15.5	0.0	
100	PI2 BPSK	135	69	14.20	14.20	14.20	15.5	0.0	
100	PI2 BPSK	135	138	14.25	14.25	14.25	15.5	0.0	
100	PI2 BPSK	270	0	14.28	14.28	14.28			
100	QPSK	1	1	14.25	14.25	14.25			
100	QPSK	1	137	14.27	14.27	14.27	15.5	0.0	
100	QPSK	1	271	14.23	14.23	14.23			
100	QPSK	135	0	14.31	14.31	14.31			
100	QPSK	135	69	14.32	14.32	14.32	15.5	0.0	
100	QPSK	135	138	14.25	14.25	14.25	15.5	0.0	
100	QPSK	270	0	14.28	14.28	14.28	15.5	0.0	
100	16QAM	1	1	14.28	14.28	14.28	15.5	0.0	
100	64QAM	1	1	14.28	14.28	14.28	15.5	0.0	
100	256QAM	1	1	14.28	14.28	14.28	15.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.22	14.22	14.22	15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.20	14.34	14.31	15.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.23	14.28	14.33	15.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.28	14.32	14.28	15.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.22	14.32	14.31	15.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.25	14.34	14.25	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.25	14.23	14.28	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.28	14.31	14.30	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.31	14.28	14.20	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.27	14.20	14.21	15.5	0.0	

Par270 n78_Ant 7_HPUE									
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)									
100	PI2 BPSK	1	1	14.20	14.20	14.20			
100	PI2 BPSK	1	137	14.21	14.21	14.21	15.5	0.0	
100	PI2 BPSK	1	271	14.28	14.28	14.28			
100	PI2 BPSK	135	0	14.21	14.21	14.21	15.5	0.0	
100	PI2 BPSK	135	69	14.20	14.20	14.20	15.5	0.0	
100	PI2 BPSK	135	138	14.25	14.25	14.25	15.5	0.0	
100	PI2 BPSK	270	0	14.28	14.28	14.28			
100	QPSK	1	1	14.25	14.25	14.25			
100	QPSK	1	137	14.27	14.27	14.27	15.5	0.0	
100	QPSK	1	271	14.23	14.23	14.23			
100	QPSK	135	0	14.31	14.31	14.31			
100	QPSK	135	69	14.32	14.32	14.32	15.5	0.0	
100	QPSK	135	138	14.25	14.25	14.25	15.5	0.0	
100	QPSK	270	0	14.28	14.28	14.28	15.5	0.0	
100	16QAM	1	1	14.28	14.28	14.28	15.5	0.0	
100	64QAM	1	1	14.28	14.28	14.28	15.5	0.0	
100	256QAM	1	1	14.28	14.28	14.28	15.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.22	14.32	14.29	15.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.20	14.34	14.31	15.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.23	14.28	14.33	15.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.28	14.32	14.28	15.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.22	14.32	14.31	15.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.25	14.34	14.25	15.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.25	14.23	14.28	15.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.28	14.31	14.30	15.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.31	14.28	14.20	15.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.27	14.20	14.21	15.5	0.0	



Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	14.18	14.27	14.18	0.0
100	PI2 BPSK	1	137	14.27	14.27	14.27	15.5
100	PI2 BPSK	1	271	14.20	14.20	14.20	0.0
100	PI2 BPSK	135	0	14.22	14.22	14.22	15.5
100	PI2 BPSK	135	69	14.21	14.21	14.21	15.5
100	PI2 BPSK	135	138	14.22	14.22	14.22	15.5
100	PI2 BPSK	270	0	14.21	14.21	14.21	15.5
100	QPSK	1	1	14.23	14.23	14.23	0.0
100	QPSK	1	137	14.31	14.31	14.31	15.5
100	QPSK	1	271	14.27	14.27	14.27	0.0
100	QPSK	135	0	14.22	14.22	14.22	15.5
100	QPSK	135	69	14.28	14.28	14.28	15.5
100	QPSK	135	138	14.21	14.21	14.21	15.5
100	QPSK	270	0	14.28	14.28	14.28	15.5
100	16QAM	1	1	14.28	14.28	14.28	15.5
100	64QAM	1	1	14.19	14.19	14.19	15.5
100	256QAM	1	1	14.22	14.22	14.22	15.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.26	14.27	14.19	15.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.32	14.27	14.18	15.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.27	14.28	14.28	15.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.22	14.31	14.19	15.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.18	14.22	14.24	15.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.19	14.20	14.19	15.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.20	14.23	14.21	15.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.19	14.24	14.26	15.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.30	14.25	14.21	15.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.20	14.20	14.32	15.5

Part27Q n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	14.18	14.27	14.18	0.0
100	PI2 BPSK	1	137	14.27	14.27	14.27	15.5
100	PI2 BPSK	1	271	14.20	14.20	14.20	0.0
100	PI2 BPSK	135	0	14.22	14.22	14.22	15.5
100	PI2 BPSK	135	69	14.21	14.21	14.21	15.5
100	PI2 BPSK	135	138	14.22	14.22	14.22	15.5
100	PI2 BPSK	270	0	14.21	14.21	14.21	15.5
100	QPSK	1	1	14.23	14.23	14.23	0.0
100	QPSK	1	137	14.31	14.31	14.31	15.5
100	QPSK	1	271	14.27	14.27	14.27	0.0
100	QPSK	135	0	14.22	14.22	14.22	15.5
100	QPSK	135	69	14.28	14.28	14.28	15.5
100	QPSK	135	138	14.21	14.21	14.21	15.5
100	QPSK	270	0	14.28	14.28	14.28	15.5
100	16QAM	1	1	14.28	14.28	14.28	15.5
100	64QAM	1	1	14.19	14.19	14.19	15.5
100	256QAM	1	1	14.22	14.22	14.22	15.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.26	14.27	14.19	15.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.32	14.27	14.18	15.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.27	14.28	14.28	15.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.22	14.31	14.19	15.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.18	14.22	14.24	15.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.19	14.20	14.19	15.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.20	14.23	14.21	15.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.19	14.24	14.26	15.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.30	14.25	14.21	15.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.20	14.20	14.32	15.5



Par270 n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	15.53	3750		
100	PI2 BPSK	1	137	15.47		17.0	0.0
100	PI2 BPSK	1	271	15.50			
100	PI2 BPSK	135	0	15.44		17.0	0.0
100	PI2 BPSK	135	69	15.50		17.0	0.0
100	PI2 BPSK	135	138	15.46		17.0	0.0
100	PI2 BPSK	270	0	15.48			
100	QPSK	1	1	15.58			
100	QPSK	1	137	15.44		17.0	0.0
100	QPSK	1	271	15.43			
100	QPSK	135	0	15.45			
100	QPSK	135	69	15.51			
100	QPSK	135	138	15.46		17.0	0.0
100	QPSK	270	0	15.43		17.0	0.0
100	16QAM	1	1	15.55		17.0	0.0
100	64QAM	1	1	15.52		17.0	0.0
100	256QAM	1	1	15.53		17.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.44	15.50	15.47	17.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.48	15.47	15.53	17.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.41	15.44	15.47	17.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.56	15.43	15.47	17.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.44	15.57	15.56	17.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.51	15.50	15.49	17.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.48	15.56	15.55	17.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.46	15.44	15.44	17.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.54	15.53	15.51	17.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.51	15.52	15.47	17.0

Par270 n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	15.53	3750		
100	PI2 BPSK	1	137	15.47		17.0	0.0
100	PI2 BPSK	1	271	15.50			
100	PI2 BPSK	135	0	15.44		17.0	0.0
100	PI2 BPSK	135	69	15.50		17.0	0.0
100	PI2 BPSK	135	138	15.46		17.0	0.0
100	PI2 BPSK	270	0	15.48			
100	QPSK	1	1	15.58			
100	QPSK	1	137	15.44		17.0	0.0
100	QPSK	1	271	15.43			
100	QPSK	135	0	15.45			
100	QPSK	135	69	15.51			
100	QPSK	135	138	15.46		17.0	0.0
100	QPSK	270	0	15.43		17.0	0.0
100	16QAM	1	1	15.55		17.0	0.0
100	64QAM	1	1	15.52		17.0	0.0
100	256QAM	1	1	15.53		17.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.44	15.50	15.47	17.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.48	15.47	15.53	17.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.41	15.44	15.47	17.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.56	15.43	15.47	17.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.44	15.57	15.56	17.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.51	15.50	15.49	17.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.48	15.56	15.55	17.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.46	15.44	15.44	17.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.54	15.53	15.51	17.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.51	15.52	15.47	17.0



Part27Q n78_Ant 8

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	14.82	3469.98			
100	Pi2 BPSK	1	137	14.89	14.89		16.0	0.0
100	Pi2 BPSK	1	271	14.86				
100	Pi2 BPSK	136	0	14.89			16.0	0.0
100	Pi2 BPSK	136	69	14.86			16.0	0.0
100	Pi2 BPSK	136	138	14.82			16.0	0.0
100	Pi2 BPSK	270	0	14.84			16.0	0.0
100	QPSK	1	1	14.92				
100	QPSK	1	137	14.98			16.0	0.0
100	QPSK	1	271	14.96				
100	QPSK	136	0	14.84			16.0	0.0
100	QPSK	136	69	14.85			16.0	0.0
100	QPSK	136	138	14.78			16.0	0.0
100	QPSK	270	0	14.80			16.0	0.0
100	16QAM	1	1	14.80			16.0	0.0
100	16QAM	1	1	14.86			16.0	0.0
100	256QAM	1	1	14.84			16.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.58	14.50	14.98	16.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3469.02	3469.98	3510	16.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.87	14.81	14.91	16.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.81	14.82	14.80	16.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.97	14.80	14.83	16.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.83	14.80	14.88	16.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.83	14.80	14.88	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.89	14.83	14.81	16.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.90	14.86	14.83	16.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.91	14.81	14.87	16.0	0.0

Part27Q n78_Ant 8_HPUE

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	15.44	3469.98			
100	Pi2 BPSK	1	137	15.46			17.0	0.0
100	Pi2 BPSK	1	271	15.51				
100	Pi2 BPSK	136	0	15.54			17.0	0.0
100	Pi2 BPSK	136	69	15.52			17.0	0.0
100	Pi2 BPSK	136	138	15.43			17.0	0.0
100	Pi2 BPSK	270	0	15.50			17.0	0.0
100	QPSK	1	1	15.55				
100	QPSK	1	137	15.40			17.0	0.0
100	QPSK	1	271	15.48				
100	QPSK	136	0	15.40			17.0	0.0
100	QPSK	136	69	15.50			17.0	0.0
100	QPSK	136	138	15.46			17.0	0.0
100	QPSK	270	0	15.45			17.0	0.0
100	16QAM	1	1	15.51			17.0	0.0
100	16QAM	1	1	15.49			17.0	0.0
100	256QAM	1	1	15.40			17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.42	15.48	15.50	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3469.02	3469.98	3510	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.43	15.51	15.42	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.47	15.49	15.40	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.49	15.49	15.53	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.44	15.54	15.45	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.49	15.54	15.49	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.49	15.52	15.43	17.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.41	15.45	15.48	17.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.53	15.48	15.47	17.0	0.0

Par27O n78_Ant 10

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	17.70	3750			
100	Pi2 BPSK	1	137	17.71			19.0	0.0
100	Pi2 BPSK	1	271	17.77				
100	Pi2 BPSK	136	0	17.72			19.0	0.0
100	Pi2 BPSK	136	69	17.63			19.0	0.0
100	Pi2 BPSK	136	138	17.77			19.0	0.0
100	Pi2 BPSK	270	0	17.83			19.0	0.0
100	QPSK	1	1	17.78				
100	QPSK	1	137	17.66			19.0	0.0
100	QPSK	1	271	17.83				
100	QPSK	136	0	17.85			19.0	0.0
100	QPSK	136	69	17.70			19.0	0.0
100	QPSK	136	138	17.68			19.0	0.0
100	QPSK	270	0	17.88			19.0	0.0
100	16QAM	1	1	17.72			19.0	0.0
100	16QAM	1	1	17.73			19.0	0.0
100	256QAM	1	1	17.83			19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.71	17.71	17.65	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3750.02	3750	3754.98	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.66	17.89	17.85	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.75	17.75	17.70	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.65	17.84	17.89	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.63	17.74	17.74	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.63	17.74	17.74	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.68	17.71	17.74	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.77	17.89	17.72	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.77	17.84	17.76	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.71	17.70	17.84	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.70	17.66	17.68	19.0	0.0



Par270 n78_Ant_10_HPUE									
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	19.68	19.72	19.76	21.0	0.0	
100	PI2 BPSK	1	137	19.72	19.76	19.80	21.0	0.0	
100	PI2 BPSK	1	271	19.86	19.90	19.94	21.0	0.0	
100	PI2 BPSK	135	0	19.87	19.91	19.95	21.0	0.0	
100	PI2 BPSK	135	69	19.92	19.96	20.00	21.0	0.0	
100	PI2 BPSK	135	138	19.99	20.03	20.07	21.0	0.0	
100	PI2 BPSK	270	0	19.99	20.03	20.07	21.0	0.0	
100	QPSK	1	1	19.73	19.77	19.81	21.0	0.0	
100	QPSK	1	137	19.79	19.83	19.87	21.0	0.0	
100	QPSK	1	271	19.87	19.91	19.95	21.0	0.0	
100	QPSK	135	0	19.89	19.93	19.97	21.0	0.0	
100	QPSK	135	69	19.94	19.98	20.02	21.0	0.0	
100	QPSK	135	138	19.99	20.03	20.07	21.0	0.0	
100	QPSK	270	0	19.70	19.74	19.78	21.0	0.0	
100	16QAM	1	1	19.70	19.74	19.78	21.0	0.0	
100	64QAM	1	1	19.83	19.87	19.91	21.0	0.0	
100	256QAM	1	1	19.95	19.99	20.03	20.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.62	19.67	19.72	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.59	19.64	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.71	19.69	19.67	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.71	19.65	19.64	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.55	19.72	19.65	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.61	19.72	19.81	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.70	19.70	19.67	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.71	19.59	19.60	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.71	19.68	19.58	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.68	19.71	19.69	21.0	0.0	

Part27Q n78_Ant 10									
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	17.79	17.77	17.75	19.0	0.0	
100	PI2 BPSK	1	137	17.77	17.76	17.75	19.0	0.0	
100	PI2 BPSK	1	271	17.81	17.80	17.79	19.0	0.0	
100	PI2 BPSK	135	0	17.77	17.77	17.77	19.0	0.0	
100	PI2 BPSK	135	69	17.82	17.82	17.82	19.0	0.0	
100	PI2 BPSK	135	138	17.77	17.77	17.77	19.0	0.0	
100	PI2 BPSK	270	0	17.82	17.82	17.82	19.0	0.0	
100	QPSK	1	1	17.84	17.84	17.84	19.0	0.0	
100	QPSK	1	137	17.76	17.76	17.76	19.0	0.0	
100	QPSK	1	271	17.75	17.75	17.75	19.0	0.0	
100	QPSK	135	0	17.76	17.76	17.76	19.0	0.0	
100	QPSK	135	69	17.83	17.83	17.83	19.0	0.0	
100	QPSK	135	138	17.82	17.82	17.82	19.0	0.0	
100	QPSK	270	0	17.71	17.71	17.71	19.0	0.0	
100	16QAM	1	1	17.77	17.77	17.77	19.0	0.0	
100	64QAM	1	1	17.72	17.72	17.72	19.0	0.0	
100	256QAM	1	1	17.78	17.78	17.78	19.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.80	17.76	17.81	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.82	17.76	17.77	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.82	17.83	17.80	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.72	17.76	17.81	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.70	17.82	17.72	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.77	17.73	17.74	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.82	17.70	17.71	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.76	17.76	17.83	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.78	17.77	17.72	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.70	17.69	17.73	19.0	0.0	

Part27Q n78_Ant 10_HPUE									
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	19.63	19.63	19.63	21.0	0.0	
100	PI2 BPSK	1	137	19.78	19.78	19.78	21.0	0.0	
100	PI2 BPSK	1	271	19.84	19.84	19.84	21.0	0.0	
100	PI2 BPSK	135	0	19.65	19.65	19.65	21.0	0.0	
100	PI2 BPSK	135	69	19.69	19.69	19.69	21.0	0.0	
100	PI2 BPSK	135	138	19.84	19.84	19.84	21.0	0.0	
100	PI2 BPSK	270	0	19.64	19.64	19.64	21.0	0.0	
100	QPSK	1	1	19.77	19.77	19.77	21.0	0.0	
100	QPSK	1	137	19.75	19.75	19.75	21.0	0.0	
100	QPSK	1	271	19.80	19.80	19.80	21.0	0.0	
100	QPSK	135	0	19.72	19.72	19.72	21.0	0.0	
100	QPSK	135	69	19.76	19.76	19.76	21.0	0.0	
100	QPSK	135	138	19.88	19.88	19.88	21.0	0.0	
100	QPSK	270	0	19.63	19.63	19.63	21.0	0.0	
100	16QAM	1	1	19.73	19.73	19.73	21.0	0.0	
100	64QAM	1	1	19.83	19.83	19.83	21.0	0.0	
100	256QAM	1	1	19.98	19.98	19.98	20.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.60	19.64	19.71	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.76	19.62	19.63	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.84	19.69	19.71	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.78	19.75	19.65	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.72	19.72	19.73	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.65	19.67	19.62	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.63	19.72	19.78	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.63	19.66	19.69	21.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.70	19.70	19.68	21.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.70	19.64	19.73	21.0	0.0	



Reduced Power Mode for DS13

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)				1660	1680	1700			
20	PI2 BPSK	1	1	16.59	16.76	16.70			
20	PI2 BPSK	1	53	16.70	16.73	16.82	18.0	0.0	
20	PI2 BPSK	1	104	16.48	16.58	16.66			
20	PI2 BPSK	50	0	16.49	16.68	16.44	18.0	0.0	
20	PI2 BPSK	50	28	16.81	16.74	16.81	18.0	0.0	
20	PI2 BPSK	50	56	16.54	16.58	16.65			
20	PI2 BPSK	100	0	16.56	16.72	16.84	18.0	0.0	
20	QPSK	1	1	16.77	16.88	16.75			
20	QPSK	1	53	16.64	16.73	16.57	18.0	0.0	
20	QPSK	1	104	16.60	16.62	16.64			
20	QPSK	50	0	16.82	16.87	16.80	18.0	0.0	
20	QPSK	50	28	16.63	16.81	16.66	18.0	0.0	
20	QPSK	50	56	16.52	16.60	16.61	18.0	0.0	
20	QPSK	100	0	16.88	16.73	16.57	18.0	0.0	
20	8QAM	1	1	16.68	16.84	16.81	18.0	0.0	
20	8QAM	1	1	16.74	16.75	16.51	18.0	0.0	
20	256QAM	1	1	16.50	16.57	16.59	18.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1671.5	1690	1702.5			
15	QPSK	1	1	16.67	16.78	16.62	18.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1665	1680	1695			
10	QPSK	1	1	16.64	16.79	16.64	18.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1662.5	1680	1697.5			
5	QPSK	1	1	16.63	16.84	16.74	18.0	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)				1660	1680	1700			
20	PI2 BPSK	1	1	15.83	15.81	15.58			
20	PI2 BPSK	1	53	15.82	15.83	15.57	17.5	0.0	
20	PI2 BPSK	1	104	15.56	15.60	15.65			
20	PI2 BPSK	50	0	15.82	15.68	15.54	17.5	0.0	
20	PI2 BPSK	50	28	15.81	15.68	15.60	17.5	0.0	
20	PI2 BPSK	50	56	15.58	15.60	15.81			
20	PI2 BPSK	100	0	15.53	15.60	15.59	17.5	0.0	
20	QPSK	1	1	15.64	15.74	15.68			
20	QPSK	1	53	15.55	15.82	15.81	17.5	0.0	
20	QPSK	1	104	15.56	15.65	15.51			
20	QPSK	50	0	15.55	15.84	15.51	17.5	0.0	
20	QPSK	50	28	15.58	15.73	15.58	17.5	0.0	
20	QPSK	50	56	15.54	15.51	15.55	17.5	0.0	
20	QPSK	100	0	15.80	15.86	15.55	17.5	0.0	
20	8QAM	1	1	15.57	15.71	15.60	17.5	0.0	
20	8QAM	1	1	15.58	15.64	15.87	17.5	0.0	
20	256QAM	1	1	15.57	15.62	15.84	17.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1671.5	1690	1702.5			
15	QPSK	1	1	15.51	15.73	15.54	17.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1665	1680	1695			
10	QPSK	1	1	15.58	15.87	15.57	17.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1662.5	1680	1697.5			
5	QPSK	1	1	15.52	15.89	15.84	17.5	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				166000	167200	167800			
Frequency (MHz)				834	845.5	849			
20	PI2 BPSK	1	1	22.89	22.96	22.76			
20	PI2 BPSK	1	53	22.88	22.84	22.79	24.0	0.0	
20	PI2 BPSK	1	104	22.81	22.90	22.79			
20	PI2 BPSK	50	0	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.83	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.78			
20	PI2 BPSK	100	0	22.76	22.81	22.72	24.0	0.0	
20	QPSK	1	1	22.92	22.97	22.80			
20	QPSK	1	53	22.81	22.78	22.73	24.0	0.0	
20	QPSK	1	104	22.83	22.79	22.72			
20	QPSK	50	0	22.76	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.75	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.88	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.88	24.0	0.0	
20	8QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	8QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	841.5	841.5			
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	841.5	844			
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	846.5	849			
5	QPSK	1	1	22.84	22.83	22.78	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	PI2 BPSK	1	1	22.70	22.72	22.63				
20	PI2 BPSK	1	53	22.67	22.75	22.68	24.0	0.0		
20	PI2 BPSK	1	104	22.70	22.73	22.63				
20	PI2 BPSK	50	0	22.50	22.71	22.52	24.0	0.0		
20	PI2 BPSK	50	28	22.67	22.75	22.60	24.0	0.0		
20	PI2 BPSK	50	56	22.58	22.71	22.58				
20	PI2 BPSK	100	0	22.58	22.64	22.55	24.0	0.0		
20	QPSK	1	1	22.73	22.76	22.65				
20	QPSK	1	53	22.61	22.66	22.50	24.0	0.0		
20	QPSK	1	104	22.57	22.68	22.50				
20	QPSK	50	0	22.61	22.68	22.52	24.0	0.0		
20	QPSK	50	28	22.62	22.72	22.57	24.0	0.0		
20	QPSK	50	56	22.61	22.67	22.50	24.0	0.0		
20	QPSK	100	0	22.60	22.64	22.49				
20	64QAM	1	1	22.63	22.61	22.65	24.0	0.0		
20	64QAM	1	1	21.34	21.45	21.37	22.5	1.5		
20	256QAM	1	1	19.33	19.36	19.28	20.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.66	22.73	22.55	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.63	22.73	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.63	22.72	22.49	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	19.47	19.48	19.43				
40	PI2 BPSK	1	108	19.41	19.43	19.40	20.5	0.0		
40	PI2 BPSK	1	214	19.47	19.47	19.47				
40	PI2 BPSK	108	0	19.45	19.46	19.36	20.5	0.0		
40	PI2 BPSK	108	54	19.35	19.49	19.43	20.5	0.0		
40	PI2 BPSK	108	108	19.44	19.40	19.38				
40	PI2 BPSK	216	0	19.44	19.49	19.35	20.5	0.0		
40	QPSK	1	1	19.48	19.52	19.50				
40	QPSK	1	108	19.43	19.42	19.45	20.5	0.0		
40	QPSK	1	214	19.46	19.46	19.42				
40	QPSK	108	0	19.40	19.37	19.40	20.5	0.0		
40	QPSK	108	54	19.47	19.48	19.45	20.5	0.0		
40	QPSK	108	108	19.40	19.44	19.39	20.5	0.0		
40	QPSK	216	0	19.43	19.46	19.43				
40	64QAM	1	1	19.41	19.41	19.44	20.5	0.0		
40	64QAM	1	1	19.46	19.42	19.44	20.5	0.0		
40	256QAM	1	1	18.62	18.65	18.76	19.5	1.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.43	19.40	19.43	20.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	19.45	19.40	19.35	20.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.34	19.41	19.49	20.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.33	19.44	19.46	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.39	19.41	19.46	20.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	19.41	19.51	19.48	20.5	0.0		

n7_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)										
40	PI2 BPSK	1	1	18.90	18.93	18.86				
40	PI2 BPSK	1	108	18.82	18.95	18.91	20.0	0.0		
40	PI2 BPSK	1	214	18.87	18.89	18.97				
40	PI2 BPSK	108	0	18.90	18.95	18.93	20.0	0.0		
40	PI2 BPSK	108	54	18.78	18.98	18.88	20.0	0.0		
40	PI2 BPSK	108	108	18.81	18.91	18.84				
40	PI2 BPSK	216	0	18.89	18.92	18.97	20.0	0.0		
40	QPSK	1	1	18.93	18.92	18.90				
40	QPSK	1	108	18.80	18.98	18.90	20.0	0.0		
40	QPSK	1	214	18.82	18.93	18.99				
40	QPSK	108	0	18.81	18.91	18.85	20.0	0.0		
40	QPSK	108	54	18.93	18.99	18.95	20.0	0.0		
40	QPSK	108	108	18.81	18.98	18.92	20.0	0.0		
40	QPSK	216	0	18.92	18.96	18.93				
40	64QAM	1	1	18.79	18.99	18.92	20.0	0.0		
40	64QAM	1	1	18.79	18.98	18.90	20.0	0.0		
40	256QAM	1	1	18.65	18.97	18.92	20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.81	18.87	18.91	20.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	18.83	18.93	18.97	20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.80	18.92	18.87	20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.82	18.83	18.83	20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.83	19.01	18.85	20.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.83	18.89	18.90	20.0	0.0		



n12_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)										
15	PI2 BPSK	1	1	22.89	22.90	22.87				
15	PI2 BPSK	1	40	22.87	22.83	22.77	24.0	0.0		
15	PI2 BPSK	1	77	22.78	22.87	22.84				
15	PI2 BPSK	36	0	22.80	22.80	22.69	24.0	0.0		
15	PI2 BPSK	36	22	22.81	22.88	22.78	24.0	0.0		
15	PI2 BPSK	36	43	22.71	22.81	22.75				
15	PI2 BPSK	12	0	22.74	22.85	22.71	24.0	0.0		
15	QPSK	1	1	22.85	22.82	22.82				
15	QPSK	1	40	22.71	22.85	22.72	24.0	0.0		
15	QPSK	1	77	22.74	22.77	22.70				
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0		
15	QPSK	36	22	22.71	22.83	22.73	24.0	0.0		
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0		
15	QPSK	75	0	22.76	22.77	22.76				
15	16QAM	1	1	22.78	22.83	22.76	24.0	0.0		
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5		
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0		

n12_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)										
15	PI2 BPSK	1	1	23.31	23.36	23.34				
15	PI2 BPSK	1	40	23.23	23.31	23.23	24.0	0.0		
15	PI2 BPSK	1	77	23.26	23.33	23.31				
15	PI2 BPSK	36	0	23.20	23.30	23.23	24.0	0.0		
15	PI2 BPSK	36	22	23.22	23.33	23.25	24.0	0.0		
15	PI2 BPSK	36	43	23.11	23.24	23.17				
15	PI2 BPSK	12	0	23.21	23.30	23.17	24.0	0.0		
15	QPSK	1	1	23.27	23.37	23.30				
15	QPSK	1	40	23.16	23.22	23.19	24.0	0.0		
15	QPSK	1	77	23.11	23.27	23.18				
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0		
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0		
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0		
15	QPSK	75	0	23.12	23.29	23.23				
15	16QAM	1	1	23.19	23.32	23.15	24.0	0.0		
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.5		
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.75	22.66	22.65	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.75	22.72	22.67	24.0	0.0		

n14_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)										
10	PI2 BPSK	1	1		22.92					
10	PI2 BPSK	1	26		22.91		24.0	0.0		
10	PI2 BPSK	1	55		22.89					
10	PI2 BPSK	25	0		22.82		24.0	0.0		
10	PI2 BPSK	25	14		22.81		24.0	0.0		
10	PI2 BPSK	25	27		22.82		24.0	0.0		
10	PI2 BPSK	50	0		22.80					
10	QPSK	1	1		22.83					
10	QPSK	1	26		22.84		24.0	0.0		
10	QPSK	1	50		22.89					
10	QPSK	25	0		22.83		24.0	0.0		
10	QPSK	25	14		22.85		24.0	0.0		
10	QPSK	25	27		22.80		24.0	0.0		
10	QPSK	50	0		22.84					
10	16QAM	1	1		22.86		24.0	0.0		
10	64QAM	1	1		22.22		23.0	1.0		
10	256QAM	1	1		20.05		21.0	3.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0		



n14_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)										
10	PI2 BPSK	1	1	22.60	22.54	22.54	24.0	0.0		
10	PI2 BPSK	1	26	22.54	22.54	22.54	24.0	0.0		
10	PI2 BPSK	25	0	22.51	22.51	22.51	24.0	0.0		
10	PI2 BPSK	25	14	22.53	22.53	22.53	24.0	0.0		
10	PI2 BPSK	25	27	22.49	22.49	22.49	24.0	0.0		
10	PI2 BPSK	50	0	22.51	22.51	22.51	24.0	0.0		
10	QPSK	1	1	22.52	22.52	22.52	24.0	0.0		
10	QPSK	1	26	22.50	22.50	22.50	24.0	0.0		
10	QPSK	1	50	22.55	22.55	22.55	24.0	0.0		
10	QPSK	25	0	22.49	22.49	22.49	24.0	0.0		
10	QPSK	25	14	22.57	22.57	22.57	24.0	0.0		
10	QPSK	25	27	22.50	22.50	22.50	24.0	0.0		
10	QPSK	50	0	22.54	22.54	22.54	24.0	0.0		
10	64QAM	1	1	22.49	22.49	22.49	23.0	1.0		
10	64QAM	1	1	22.00	22.00	22.00	23.0	1.0		
10	256QAM	1	1	19.89	19.89	19.89	21.0	3.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.52	22.51	22.58	24.0	0.0		

n25_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	16.70	16.66	16.71	18.0	0.0		
40	PI2 BPSK	1	108	16.74	16.63	16.63	18.0	0.0		
40	PI2 BPSK	1	214	16.60	16.66	16.67	18.0	0.0		
40	PI2 BPSK	108	0	16.59	16.78	16.59	18.0	0.0		
40	PI2 BPSK	108	54	16.69	16.61	16.70	18.0	0.0		
40	PI2 BPSK	108	108	16.57	16.58	16.68	18.0	0.0		
40	PI2 BPSK	216	0	16.66	16.63	16.65	18.0	0.0		
40	QPSK	1	1	16.60	16.64	16.77	18.0	0.0		
40	QPSK	1	108	16.76	16.65	16.65	18.0	0.0		
40	QPSK	1	214	16.69	16.74	16.70	18.0	0.0		
40	QPSK	108	0	16.58	16.81	16.61	18.0	0.0		
40	QPSK	108	54	16.72	16.69	16.71	18.0	0.0		
40	QPSK	108	108	16.65	16.64	16.69	18.0	0.0		
40	QPSK	216	0	16.73	16.68	16.70	18.0	0.0		
40	64QAM	1	1	16.73	16.60	16.67	18.0	0.0		
40	64QAM	1	1	16.75	16.63	16.63	18.0	0.0		
40	256QAM	1	1	16.64	16.67	16.64	18.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	16.77	16.63	16.69	18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.73	16.60	16.73	18.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	16.70	16.62	16.69	18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.73	16.50	16.67	18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.74	16.64	16.75	18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.71	16.68	16.74	18.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	16.73	16.64	16.76	18.0	0.0		

n25_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	15.64	15.80	15.52	17.5	0.0		
40	PI2 BPSK	1	108	15.58	15.69	15.52	17.5	0.0		
40	PI2 BPSK	1	214	15.61	15.60	15.66	17.5	0.0		
40	PI2 BPSK	108	0	15.56	15.69	15.50	17.5	0.0		
40	PI2 BPSK	108	54	15.58	15.62	15.54	17.5	0.0		
40	PI2 BPSK	108	108	15.51	15.59	15.52	17.5	0.0		
40	PI2 BPSK	216	0	15.56	15.78	15.51	17.5	0.0		
40	QPSK	1	1	15.62	15.81	15.62	17.5	0.0		
40	QPSK	1	108	15.63	15.70	15.59	17.5	0.0		
40	QPSK	1	214	15.66	15.68	15.59	17.5	0.0		
40	QPSK	108	0	15.62	15.70	15.55	17.5	0.0		
40	QPSK	108	54	15.65	15.76	15.55	17.5	0.0		
40	QPSK	108	108	15.57	15.66	15.57	17.5	0.0		
40	QPSK	216	0	15.60	15.80	15.55	17.5	0.0		
40	64QAM	1	1	15.62	15.76	15.56	17.5	0.0		
40	64QAM	1	1	15.58	15.60	15.54	17.5	0.0		
40	256QAM	1	1	15.59	15.64	15.58	17.5	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	15.66	15.78	15.59	17.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.65	15.76	15.59	17.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	15.63	15.73	15.58	17.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.63	15.73	15.58	17.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.55	15.66	15.57	17.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.56	15.60	15.55	17.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	15.59	15.60	15.51	17.5	0.0		



n26_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				16590	16630	16780			
Frequency (MHz)				84.5	83.5	83.9			
20	PI2 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.83	22.87			
20	PI2 BPSK	1	104	22.85	22.79	22.86			
20	PI2 BPSK	50	0	22.85	22.85	22.85	24.0	0.0	
20	PI2 BPSK	50	28	22.82	22.90	22.84			
20	PI2 BPSK	50	56	22.87	22.86	22.86			
20	PI2 BPSK	100	0	22.80	22.80	22.81	24.0	0.0	
20	QPSK	1	1	22.99	22.98	23.02			
20	QPSK	1	53	22.90	22.81	22.86	24.0	0.0	
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	28	22.87	22.85	22.86			
20	QPSK	50	56	22.82	22.81	22.85			
20	QPSK	100	0	22.80	22.79	22.83	24.0	0.0	
20	16QAM	1	1	22.96	22.85	22.85	23.0	1.0	
20	16QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel				16300	16300	16300	Tune-up limit	MPR	
Frequency (MHz)				831.5	831.5	831.5	(dBm)	(dB)	
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel				16300	16300	16300	Tune-up limit	MPR	
Frequency (MHz)				831.5	831.5	831.5	(dBm)	(dB)	
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel				16300	16300	16300	Tune-up limit	MPR	
Frequency (MHz)				831.5	831.5	831.5	(dBm)	(dB)	
5	QPSK	1	1	22.92	22.88	22.88	24.0	0.0	

n26_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				16600	16630	16780			
Frequency (MHz)				84.5	83.5	83.9			
20	PI2 BPSK	1	1	22.86	22.88	22.87	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.78	22.80			
20	PI2 BPSK	1	104	22.80	22.78	22.81			
20	PI2 BPSK	50	0	22.89	22.87	22.85	24.0	0.0	
20	PI2 BPSK	50	28	22.80	22.85	22.82			
20	PI2 BPSK	50	56	22.85	22.80	22.81			
20	PI2 BPSK	100	0	22.80	22.82	22.85	24.0	0.0	
20	QPSK	1	1	22.99	22.97	23.00			
20	QPSK	1	53	22.95	22.92	22.92	24.0	0.0	
20	QPSK	1	104	22.94	22.87	22.93			
20	QPSK	50	0	22.85	22.81	22.86	24.0	0.0	
20	QPSK	50	28	22.90	22.89	22.95			
20	QPSK	50	56	22.83	22.87	22.81			
20	QPSK	100	0	22.85	22.84	22.86	24.0	0.0	
20	16QAM	1	1	22.83	22.87	22.80	24.0	0.0	
20	16QAM	1	1	21.56	21.56	21.63	23.0	1.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0	
Channel				16400	16300	16300	Tune-up limit	MPR	
Frequency (MHz)				831.5	831.5	831.5	(dBm)	(dB)	
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0	
Channel				16300	16300	16300	Tune-up limit	MPR	
Frequency (MHz)				831.5	831.5	831.5	(dBm)	(dB)	
10	QPSK	1	1	22.88	22.86	22.81	24.0	0.0	
Channel				16300	16300	16300	Tune-up limit	MPR	
Frequency (MHz)				831.5	831.5	831.5	(dBm)	(dB)	
5	QPSK	1	1	22.85	22.87	22.88	24.0	0.0	



n30_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				460000				
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	18.09			20.0	0.0
10	PI2 BPSK	1	26	18.05				
10	PI2 BPSK	1	50	18.06				
10	PI2 BPSK	25	0	18.08			20.0	0.0
10	PI2 BPSK	25	14	18.04				
10	PI2 BPSK	25	27	18.06			20.0	0.0
10	PI2 BPSK	50	0	18.06				
10	QPSK	1	1	18.15				
10	QPSK	1	26	18.11			20.0	0.0
10	QPSK	1	50	18.01				
10	QPSK	25	0	18.08			20.0	0.0
10	QPSK	25	14	18.13			20.0	0.0
10	QPSK	25	27	18.11			20.0	0.0
10	QPSK	50	0	18.11			20.0	0.0
10	16QAM	1	1	18.03			20.0	0.0
10	16QAM	1	1	18.13			20.0	0.0
10	256QAM	1	1	17.61			19.5	0.5
Channel				481500				
Frequency (MHz)				2307.5				
5	QPSK	1	1	18.08	18.03	18.05	20.0	0.0

n30_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)	MFR (dB)
Channel				460000				
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	20.39				
10	PI2 BPSK	1	26	20.43			21.5	0.0
10	PI2 BPSK	1	50	20.49				
10	PI2 BPSK	25	0	20.46			21.5	0.0
10	PI2 BPSK	25	14	20.41				
10	PI2 BPSK	25	27	20.45			21.5	0.0
10	PI2 BPSK	50	0	20.35				
10	QPSK	1	1	20.50				
10	QPSK	1	26	20.48			21.5	0.0
10	QPSK	1	50	20.40				
10	QPSK	25	0	20.35			21.5	0.0
10	QPSK	25	14	20.47			21.5	0.0
10	QPSK	25	27	20.38				
10	QPSK	50	0	20.39			21.5	0.0
10	16QAM	1	1	20.44			21.5	0.0
10	16QAM	1	1	20.43			21.5	0.0
10	256QAM	1	1	20.25			21.0	0.5
Channel				481500				
Frequency (MHz)				2307.5				
5	QPSK	1	1	20.46	20.38	20.45	21.5	0.0



n66_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	16.96	16.91	16.92				
40	PI2 BPSK	1	108	16.91	16.89	16.84	18.0	0.0		
40	PI2 BPSK	1	214	16.88	16.88	16.71				
40	PI2 BPSK	108	0	16.87	16.89	16.80	18.0	0.0		
40	PI2 BPSK	108	54	16.91	16.89	16.82	18.0	0.0		
40	PI2 BPSK	108	108	16.84	16.70	16.62	18.0	0.0		
40	PI2 BPSK	216	0	16.91	16.97	16.84				
40	QPSK	1	1	17.01	17.02	16.95				
40	QPSK	1	108	16.92	16.95	16.85	18.0	0.0		
40	QPSK	1	214	16.93	16.90	16.78				
40	QPSK	108	0	16.88	16.90	16.89	18.0	0.0		
40	QPSK	108	54	16.97	16.99	16.93	18.0	0.0		
40	QPSK	108	108	16.92	16.80	16.68	18.0	0.0		
40	QPSK	216	0	16.97	16.98	16.86				
40	16QAM	1	1	17.01	16.97	16.89	18.0	0.0		
40	64QAM	1	1	16.94	16.93	16.87	18.0	0.0		
40	256QAM	1	1	16.93	16.94	16.92	18.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	16.95	16.90	16.89	18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.89	16.84	16.77	18.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	17.22	17.45	17.67	18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.87	16.85	16.72	18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.17	17.45	17.72	18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.86	16.86	16.73	18.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	16.92	16.84	16.70	18.0	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)										
40	PI2 BPSK	1	1	16.69	16.79	16.75				
40	PI2 BPSK	1	108	16.67	16.76	16.59	17.5	0.0		
40	PI2 BPSK	1	214	16.68	16.75	16.69				
40	PI2 BPSK	108	0	16.68	16.76	16.51	17.5	0.0		
40	PI2 BPSK	108	54	16.70	16.74	16.74	17.5	0.0		
40	PI2 BPSK	108	108	16.57	16.70	16.59	17.5	0.0		
40	PI2 BPSK	216	0	16.72	16.71	16.70				
40	QPSK	1	1	16.70	16.88	16.85				
40	QPSK	1	108	16.76	16.80	16.66	17.5	0.0		
40	QPSK	1	214	16.65	16.80	16.71				
40	QPSK	108	0	16.69	16.79	16.61	17.5	0.0		
40	QPSK	108	54	16.74	16.82	16.81	17.5	0.0		
40	QPSK	108	108	16.61	16.78	16.65	17.5	0.0		
40	QPSK	216	0	16.73	16.80	16.76				
40	16QAM	1	1	16.76	16.83	16.78	17.5	0.0		
40	64QAM	1	1	16.68	16.73	16.61	17.5	0.0		
40	256QAM	1	1	16.55	16.78	16.63	17.5	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	16.77	16.82	16.80	17.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.69	16.86	16.76	17.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	16.74	16.83	16.80	17.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.66	16.81	16.77	17.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.73	16.82	16.77	17.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.78	16.78	16.80	17.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	16.75	16.84	16.76	17.5	0.0		

n70_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)										
15	PI2 BPSK	1	1		18.26					
15	PI2 BPSK	1	40		18.17		19.5	0.0		
15	PI2 BPSK	1	77		18.02					
15	PI2 BPSK	36	0		18.10		19.5	0.0		
15	PI2 BPSK	36	22		18.24		19.5	0.0		
15	PI2 BPSK	36	43		17.99		19.5	0.0		
15	PI2 BPSK	75	0		18.13					
15	QPSK	1	1		18.32					
15	QPSK	1	40		18.21		19.5	0.0		
15	QPSK	1	77		18.09					
15	QPSK	36	0		18.17		19.5	0.0		
15	QPSK	36	22		18.31		19.5	0.0		
15	QPSK	36	43		18.08		19.5	0.0		
15	QPSK	75	0		18.22					
15	16QAM	1	1		18.29		19.5	0.0		
15	64QAM	1	1		18.25		19.5	0.0		
15	256QAM	1	1		18.21		19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.23	18.31	18.28	19.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.22	18.24	18.27	19.5	0.0		



n70_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)									
15	PI2 BPSK	1	1	16.87					
15	PI2 BPSK	1	40	16.85			17.5	0.0	
15	PI2 BPSK	1	77	16.72					
15	PI2 BPSK	36	0	16.69			17.5	0.0	
15	PI2 BPSK	36	22	16.78			17.5	0.0	
15	PI2 BPSK	36	43	16.61			17.5	0.0	
15	PI2 BPSK	12	0	16.80					
15	QPSK	1	1	16.88					
15	QPSK	1	40	16.86			17.5	0.0	
15	QPSK	1	77	16.74					
15	QPSK	36	0	16.76			17.5	0.0	
15	QPSK	36	22	16.82			17.5	0.0	
15	QPSK	36	43	16.70			17.5	0.0	
15	QPSK	75	0	16.85					
15	16QAM	1	1	16.81			17.5	0.0	
15	64QAM	1	1	16.79			17.5	0.0	
15	256QAM	1	1	16.75			17.5	0.0	
Channel									
Frequency (MHz)									
34000				34000	34000	34100	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	16.86	16.80	16.78	17.5	0.0	
Channel									
Frequency (MHz)									
33950				33950	34000	34100	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	16.80	16.82	16.79	17.5	0.0	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.09	23.03			
30	PI2 BPSK	1	80	23.01	23.04	22.92	24.0	0.0	
30	PI2 BPSK	1	158	23.00	23.08	23.01			
30	PI2 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	PI2 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	PI2 BPSK	80	80	22.91	23.02	22.92	24.0	0.0	
30	PI2 BPSK	160	0	22.95	22.99	22.98			
30	QPSK	1	1	23.02	23.10	23.01			
30	QPSK	1	80	22.94	22.98	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97			
30	QPSK	80	0	22.89	22.93	22.91	24.0	0.0	
30	QPSK	80	40	22.91	22.96	22.93	24.0	0.0	
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.98	22.96			
30	16QAM	1	1	22.90	22.93	22.93	24.0	0.0	
30	64QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
135100				135100	136100	137100	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	22.83	22.97	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
134600				134600	136100	137600	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
134100				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.80	22.89	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
133500				133500	136100	138500	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.86	22.92	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
133000				133000	136100	137000	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.13	23.13			
30	PI2 BPSK	1	80	23.15	23.16	23.10	24.0	0.0	
30	PI2 BPSK	1	158	23.18	23.24	23.20			
30	PI2 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	PI2 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	PI2 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	PI2 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09			
30	QPSK	80	0	23.09	23.09	23.11	24.0	0.0	
30	QPSK	80	40	23.13	23.19	23.17	24.0	0.0	
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06			
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0	
30	64QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
135100				135100	136100	137100	Tune-up limit (dBm)	MPR (dB)	
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
134600				134600	136100	137600	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
134100				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
133500				133500	136100	138500	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
133000				133000	136100	137000	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_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)				2596.02	2595	2594.98			
40	PI2 BPSK	1	1	19.29	19.35	19.37			
40	PI2 BPSK	1	53	19.21	19.32	19.24	21.0	0.0	
40	PI2 BPSK	1	104	19.27	19.33	19.31			
40	PI2 BPSK	50	0	19.20	19.29	19.26	21.0	0.0	
40	PI2 BPSK	50	28	19.25	19.25	19.24	21.0	0.0	
40	PI2 BPSK	50	56	19.18	19.36	19.24	21.0	0.0	
40	PI2 BPSK	100	0	19.27	19.34	19.23			
40	QPSK	1	1	19.31	19.40	19.36			
40	QPSK	1	53	19.17	19.35	19.26	21.0	0.0	
40	QPSK	1	104	19.16	19.27	19.29			
40	QPSK	50	0	19.21	19.26	19.28			
40	QPSK	50	28	19.24	19.27	19.21	21.0	0.0	
40	QPSK	50	56	19.25	19.30	19.30			
40	QPSK	100	0	19.29	19.35	19.32	21.0	0.0	
40	16QAM	1	1	19.19	19.26	19.32	21.0	0.0	
40	16QAM	1	1	19.24	19.33	19.23	21.0	0.0	
40	16QAM	1	1	19.29	19.37	19.30	21.0	0.0	
Channel									
Frequency (MHz)				5170.02	5169	5168.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.24	19.33	19.24	21.0	0.0	
Channel									
Frequency (MHz)				5180.00	5180	5180	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.20	19.34	19.36	21.0	0.0	
Channel									
Frequency (MHz)				5180.02	5180	5180	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.16	19.27	19.29	21.0	0.0	
Channel									
Frequency (MHz)				5190.04	5190	5190	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.19	19.27	19.28	21.0	0.0	

n38_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)				5190.02	5190	5190.98			
40	PI2 BPSK	1	1	18.85	19.01	18.99			
40	PI2 BPSK	1	53	18.89	18.94	18.95	20.0	0.0	
40	PI2 BPSK	1	104	18.95	18.99	18.91			
40	PI2 BPSK	50	0	18.93	18.94	18.98	20.0	0.0	
40	PI2 BPSK	50	28	18.97	18.94	18.98	20.0	0.0	
40	PI2 BPSK	50	56	18.99	19.00	19.01	20.0	0.0	
40	PI2 BPSK	100	0	18.94	18.99	18.97			
40	QPSK	1	1	19.00	19.05	19.02			
40	QPSK	1	53	18.96	18.96	18.91	20.0	0.0	
40	QPSK	1	104	18.96	18.98	18.98			
40	QPSK	50	0	18.85	18.94	18.94			
40	QPSK	50	28	18.86	18.99	18.96	20.0	0.0	
40	QPSK	50	56	18.88	18.95	18.89			
40	QPSK	100	0	18.90	18.95	18.93	20.0	0.0	
40	16QAM	1	1	18.93	18.93	18.96	20.0	0.0	
40	16QAM	1	1	18.97	18.94	18.97	20.0	0.0	
40	16QAM	1	1	18.44	18.55	18.43	19.5	0.5	
Channel									
Frequency (MHz)				5170.02	5169	5168.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	18.89	19.04	18.88	20.0	0.0	
Channel									
Frequency (MHz)				5180.00	5180	5180	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	18.95	18.98	18.96	20.0	0.0	
Channel									
Frequency (MHz)				5180.02	5180	5180	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	18.97	19.00	18.93	20.0	0.0	
Channel									
Frequency (MHz)				5190.04	5190	5190	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.93	18.96	18.91	20.0	0.0	

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)				2546.01	2542.99	2543			
100	PI2 BPSK	1	1	19.25	19.31	19.25			
100	PI2 BPSK	1	137	19.24	19.32	19.32	21.0	0.0	
100	PI2 BPSK	1	271	19.23	19.35	19.33			
100	PI2 BPSK	135	0	19.20	19.38	19.35	21.0	0.0	
100	PI2 BPSK	135	69	19.25	19.31	19.32	21.0	0.0	
100	PI2 BPSK	135	138	19.21	19.32	19.38			
100	PI2 BPSK	270	0	19.18	19.32	19.25	21.0	0.0	
100	QPSK	1	1	19.33	19.42	19.40			
100	QPSK	1	137	19.26	19.36	19.29	21.0	0.0	
100	QPSK	1	271	19.19	19.36	19.31			
100	QPSK	135	0	19.28	19.35	19.32			
100	QPSK	135	69	19.24	19.40	19.26	21.0	0.0	
100	QPSK	135	138	19.21	19.36	19.34			
100	QPSK	270	0	19.29	19.36	19.33	21.0	0.0	
100	16QAM	1	1	19.27	19.37	19.28	21.0	0.0	
100	16QAM	1	1	19.25	19.31	19.26	21.0	0.0	
100	16QAM	1	1	19.29	19.36	19.38	21.0	0.0	
Channel									
Frequency (MHz)				5060.00	5189.99	5189.98	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.32	19.32	19.28	21.0	0.0	
Channel									
Frequency (MHz)				5072.04	5189.99	5209.98	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.31	19.27	19.27	21.0	0.0	
Channel									
Frequency (MHz)				5082.00	5189.99	5209.98	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	19.29	19.32	19.32	21.0	0.0	
Channel									
Frequency (MHz)				5092.00	5189.99	5209.98	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.28	19.30	19.34	21.0	0.0	
Channel									
Frequency (MHz)				5104.04	5189.99	5209.98	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.32	19.29	19.28	21.0	0.0	
Channel									
Frequency (MHz)				5116.01	5189.99	5209.98	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.29	19.36	19.37	21.0	0.0	
Channel									
Frequency (MHz)				5222.01	5189.99	5209.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.32	19.33	19.37	21.0	0.0	
Channel									
Frequency (MHz)				5234.02	5209.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.26	19.34	19.25	21.0	0.0	
Channel									
Frequency (MHz)				5007.00	5189.99	5364.98	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.32	19.29	19.37	21.0	0.0	
Channel									
Frequency (MHz)				2501.01	2502.99	2503	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.29	19.37	19.36	21.0	0.0	



n41_Ant 1_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Highest Ch. Freq.		
Channel				506002	518998	526000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	19.25	19.31	19.25		
100	PI2 BPSK	1	137	19.24	19.32	19.32	21.0	0.0
100	PI2 BPSK	1	271	19.23	19.35	19.33		
100	PI2 BPSK	135	0	19.20	19.38	19.35	21.0	0.0
100	PI2 BPSK	135	69	19.25	19.31	19.35	21.0	0.0
100	PI2 BPSK	135	138	19.21	19.32	19.38	21.0	0.0
100	PI2 BPSK	270	0	19.18	19.32	19.25		
100	QPSK	1	1	19.33	19.42	19.50		
100	QPSK	1	137	19.29	19.30	19.29	21.0	0.0
100	QPSK	1	271	19.19	19.30	19.31		
100	QPSK	135	0	19.28	19.35	19.32		
100	QPSK	135	69	19.31	19.40	19.35	21.0	0.0
100	QPSK	135	138	19.21	19.35	19.34		
100	QPSK	270	0	19.29	19.30	19.33	21.0	0.0
100	16QAM	1	1	19.27	19.37	19.28	21.0	0.0
100	16QAM	1	1	19.25	19.31	19.28	21.0	0.0
100	16QAM	1	1	19.20	19.30	19.38	21.0	0.0
Channel				506000	518998	526996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	19.32	19.32	19.28	21.0	0.0
Channel				507204	518998	525998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.23	19.27	19.27	21.0	0.0
Channel				505200	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.29	19.32	19.32	21.0	0.0
Channel				502000	518998	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.28	19.30	19.34	21.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	19.32	19.29	19.28	21.0	0.0
Channel				503002	518998	530000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.29	19.30	19.37	21.0	0.0
Channel				502200	518998	532596	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.32	19.33	19.37	21.0	0.0
Channel				507004	518998	532596	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.28	19.34	19.25	21.0	0.0
Channel				500700	518998	538496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.01	2592.99	2682.98		
15	QPSK	1	1	19.32	19.29	19.37	21.0	0.0
Channel				500002	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.20	19.37	19.35	21.0	0.0



n41_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2541.01	2592.99	2640		
100	PI2 BPSK	1	1	17.42	17.44	17.49		
100	PI2 BPSK	1	137	17.39	17.40	17.46	19.0	0.0
100	PI2 BPSK	1	271	17.37	17.40	17.49		
100	PI2 BPSK	135	0	17.40	17.54	17.38	19.0	0.0
100	PI2 BPSK	135	69	17.45	17.53	17.45	19.0	0.0
100	PI2 BPSK	135	138	17.47	17.41	17.48		
100	PI2 BPSK	270	0	17.46	17.48	17.48	19.0	0.0
100	QPSK	1	1	17.52	17.55	17.50		
100	QPSK	1	137	17.37	17.53	17.37	19.0	0.0
100	QPSK	1	271	17.35	17.48	17.39		
100	QPSK	135	0	17.42	17.49	17.37		
100	QPSK	135	69	17.45	17.52	17.46	19.0	0.0
100	QPSK	135	138	17.45	17.50	17.35		
100	QPSK	270	0	17.39	17.50	17.49	19.0	0.0
100	16QAM	1	1	17.45	17.48	17.44	19.0	0.0
100	64QAM	1	1	17.48	17.53	17.38	19.0	0.0
100	256QAM	1	1	17.37	17.54	17.47	19.0	0.0
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.38	17.42	17.47	19.0	0.0
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.42	17.49	17.39	19.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	17.41	17.50	17.48	19.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.41	17.44	17.39	19.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	17.45	17.43	17.35	19.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.35	17.43	17.43	19.0	0.0
Channel				502000	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.49	17.50	17.38	19.0	0.0
Channel				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.37	17.51	17.46	19.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	17.40	17.46	17.41	19.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	17.47	17.47	17.41	19.0	0.0

n41_Ant 2_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2541.01	2592.99	2640		
100	PI2 BPSK	1	1	17.42	17.44	17.49		
100	PI2 BPSK	1	137	17.39	17.40	17.46	19.0	0.0
100	PI2 BPSK	1	271	17.37	17.40	17.49		
100	PI2 BPSK	135	0	17.40	17.54	17.38	19.0	0.0
100	PI2 BPSK	135	69	17.45	17.53	17.45	19.0	0.0
100	PI2 BPSK	135	138	17.47	17.41	17.48		
100	PI2 BPSK	270	0	17.46	17.48	17.48	19.0	0.0
100	QPSK	1	1	17.52	17.55	17.50		
100	QPSK	1	137	17.37	17.53	17.37	19.0	0.0
100	QPSK	1	271	17.35	17.48	17.39		
100	QPSK	135	0	17.42	17.49	17.37		
100	QPSK	135	69	17.45	17.52	17.46	19.0	0.0
100	QPSK	135	138	17.45	17.50	17.35		
100	QPSK	270	0	17.39	17.50	17.49	19.0	0.0
100	16QAM	1	1	17.45	17.48	17.44	19.0	0.0
100	64QAM	1	1	17.48	17.53	17.38	19.0	0.0
100	256QAM	1	1	17.37	17.54	17.47	19.0	0.0
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.38	17.42	17.47	19.0	0.0
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.42	17.49	17.39	19.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	17.41	17.50	17.48	19.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.41	17.44	17.39	19.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	17.45	17.43	17.35	19.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.35	17.43	17.43	19.0	0.0
Channel				502000	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.49	17.50	17.38	19.0	0.0
Channel				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.37	17.51	17.46	19.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	17.40	17.46	17.41	19.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	17.47	17.47	17.41	19.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506202	518598	526600		
Frequency (MHz)				2541.01	2592.99	2643		
100	PI2 BPSK	1	1	15.05	15.07	15.00		
100	PI2 BPSK	1	137	15.02	15.14	15.11	16.5	0.0
100	PI2 BPSK	1	271	15.04	15.12	14.97		
100	PI2 BPSK	135	0	15.05	15.14	15.10	16.5	0.0
100	PI2 BPSK	135	69	15.15	15.17	15.05	16.5	0.0
100	PI2 BPSK	135	138	15.04	15.14	14.97		
100	PI2 BPSK	270	0	15.04	15.11	15.10	16.5	0.0
100	QPSK	1	1	15.12	15.20	15.12		
100	QPSK	1	137	15.13	15.12	15.07	16.5	0.0
100	QPSK	1	271	15.07	15.07	15.02		
100	QPSK	135	0	15.02	15.13	15.03		
100	QPSK	135	69	15.12	15.19	15.11	16.5	0.0
100	QPSK	135	138	15.05	15.06	15.04		
100	QPSK	270	0	15.08	15.12	15.06	16.5	0.0
100	16QAM	1	1	15.06	15.13	15.00	16.5	0.0
100	64QAM	1	1	15.14	15.07	15.09	16.5	0.0
100	256QAM	1	1	15.14	15.10	15.11	16.5	0.0
Channel				506200	518598	526606	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	15.12	15.07	14.89	16.5	0.0
Channel				507204	518598	526608	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2646.99	(dBm)	(dB)
80	QPSK	1	1	15.12	15.17	14.87	16.5	0.0
Channel				508200	518598	531966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	15.12	15.15	14.99	16.5	0.0
Channel				509200	518598	531966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98	(dBm)	(dB)
60	QPSK	1	1	15.03	15.05	15.09	16.5	0.0
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99	(dBm)	(dB)
50	QPSK	1	1	15.04	15.11	15.05	16.5	0.0
Channel				505202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	15.05	15.10	15.01	16.5	0.0
Channel				506200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	15.11	15.19	15.03	16.5	0.0
Channel				507204	518598	535968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	15.02	15.16	15.06	16.5	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	15.01	15.11	15.03	16.5	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	15.12	15.11	15.04	16.5	0.0

n41_Ant 5_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506202	518598	526600		
Frequency (MHz)				2541.01	2592.99	2643		
100	PI2 BPSK	1	1	15.05	15.07	15.00		
100	PI2 BPSK	1	137	15.02	15.14	15.11	16.5	0.0
100	PI2 BPSK	1	271	15.04	15.12	14.97		
100	PI2 BPSK	135	0	15.05	15.14	15.10	16.5	0.0
100	PI2 BPSK	135	69	15.15	15.17	15.05	16.5	0.0
100	PI2 BPSK	135	138	15.04	15.14	14.97		
100	PI2 BPSK	270	0	15.04	15.11	15.10	16.5	0.0
100	QPSK	1	1	15.12	15.20	15.12		
100	QPSK	1	137	15.13	15.12	15.07	16.5	0.0
100	QPSK	1	271	15.07	15.07	15.02		
100	QPSK	135	0	15.02	15.13	15.03		
100	QPSK	135	69	15.12	15.19	15.11	16.5	0.0
100	QPSK	135	138	15.05	15.06	15.04		
100	QPSK	270	0	15.08	15.12	15.06	16.5	0.0
100	16QAM	1	1	15.06	15.13	15.00	16.5	0.0
100	64QAM	1	1	15.14	15.07	15.09	16.5	0.0
100	256QAM	1	1	15.14	15.10	15.11	16.5	0.0
Channel				506200	518598	526606	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
90	QPSK	1	1	15.12	15.07	14.89	16.5	0.0
Channel				507204	518598	526608	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2646.99	(dBm)	(dB)
80	QPSK	1	1	15.12	15.17	14.87	16.5	0.0
Channel				508200	518598	531966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	15.12	15.15	14.99	16.5	0.0
Channel				509200	518598	531966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98	(dBm)	(dB)
60	QPSK	1	1	15.03	15.05	15.09	16.5	0.0
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99	(dBm)	(dB)
50	QPSK	1	1	15.04	15.11	15.05	16.5	0.0
Channel				505202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	15.05	15.10	15.01	16.5	0.0
Channel				506200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	15.11	15.19	15.03	16.5	0.0
Channel				507204	518598	535968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	15.02	15.16	15.06	16.5	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	15.01	15.11	15.03	16.5	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	15.12	15.11	15.04	16.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	High Ch. Freq.		
Channel				506202	518698	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.97	21.01	20.91		
100	PI2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PI2 BPSK	1	271	20.93	21.11	20.89		
100	PI2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PI2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PI2 BPSK	135	138	20.76	21.01	20.89	22.5	0.0
100	PI2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.08		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	16QAM	1	1	20.97	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506200	518698	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518698	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.00	21.04	20.81	22.5	0.0
Channel				508200	518698	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				509200	518698	531966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518698	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.09	21.11	20.90	22.5	0.0
Channel				505202	518698	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.00	20.99	20.92	22.5	0.0
Channel				506200	518698	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518698	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518698	538498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.5	2592.99	2682.48		
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				506202	518698	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611.01	2592.99	2685		
10	QPSK	1	1	21.07	21.03	20.94	22.5	0.0



n41_Ant 6_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Highest Ch. Freq.		
Channel				506002	518998	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.84	22.74	22.67		
100	PI2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0
100	PI2 BPSK	1	271	22.71	22.93	22.61		
100	PI2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5
100	PI2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0
100	PI2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5
100	PI2 BPSK	270	0	22.26	22.19	22.28		
100	QPSK	1	1	22.81	22.88	22.85		
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0
100	QPSK	1	271	22.61	22.48	22.63		
100	QPSK	135	0	21.73	21.75	21.76		
100	QPSK	135	69	22.61	22.67	22.61	24.5	0.0
100	QPSK	135	138	21.62	21.71	21.71		
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0
100	64QAM	1	1	20.48	20.64	20.48	22.0	2.5
100	256QAM	1	1	18.25	18.56	18.31	20.0	4.5
Channel				506000	518998	526000		
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	22.83	22.88	22.79	24.5	0.0
Channel				507204	518998	526000		
Frequency (MHz)				2536.02	2592.99	2648.98		
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0
Channel				508200	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0
Channel				509200	518998	531000		
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0
Channel				504204	518998	532000		
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	22.89	22.94	22.83	24.5	0.0
Channel				505202	518998	536000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.89	22.94	22.79	24.5	0.0
Channel				506200	518998	535000		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0
Channel				507204	518998	535000		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0
Channel				507000	518998	538400		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0
Channel				506202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2541.01	2592.99	2640		
100	PI2 BPSK	1	1	18.99	19.00	18.99		
100	PI2 BPSK	1	137	18.99	19.07	19.02	20.0	0.0
100	PI2 BPSK	1	271	18.90	18.96	18.93		
100	PI2 BPSK	135	0	18.95	18.95	18.96	20.0	0.0
100	PI2 BPSK	135	69	18.92	19.02	18.91	20.0	0.0
100	PI2 BPSK	135	138	18.99	18.98	18.97		
100	PI2 BPSK	270	0	18.92	19.08	18.94	20.0	0.0
100	QPSK	1	1	18.12	18.13	18.10		
100	QPSK	1	137	19.00	19.00	18.97	20.0	0.0
100	QPSK	1	271	18.95	18.97	19.04		
100	QPSK	135	0	18.87	18.97	18.94		
100	QPSK	135	69	18.95	18.98	18.93	20.0	0.0
100	QPSK	135	138	18.90	18.95	18.94		
100	QPSK	270	0	19.01	19.05	18.90	20.0	0.0
100	16QAM	1	1	18.90	18.98	18.91	20.0	0.0
100	64QAM	1	1	18.97	19.04	19.03	20.0	0.0
100	256QAM	1	1	18.89	19.03	19.01	20.0	0.0
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.96	18.96	19.04	20.0	0.0
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	18.95	18.96	18.91	20.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	18.97	19.08	19.03	20.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	18.95	18.99	18.94	20.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.91	19.03	19.02	20.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.89	19.01	19.02	20.0	0.0
Channel				502200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.87	19.03	18.91	20.0	0.0
Channel				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.98	19.06	18.92	20.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	18.91	19.08	19.01	20.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.00	18.90	18.90	20.0	0.0

n41_Ant 9_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2541.01	2592.99	2640		
100	PI2 BPSK	1	1	18.99	19.00	18.99		
100	PI2 BPSK	1	137	18.99	19.07	19.02	20.0	0.0
100	PI2 BPSK	1	271	18.90	18.96	18.93		
100	PI2 BPSK	135	0	18.95	18.95	18.96	20.0	0.0
100	PI2 BPSK	135	69	18.92	19.02	18.91	20.0	0.0
100	PI2 BPSK	135	138	18.99	18.98	18.97		
100	PI2 BPSK	270	0	18.92	19.08	18.94	20.0	0.0
100	QPSK	1	1	18.12	18.13	18.10		
100	QPSK	1	137	19.00	19.00	18.97	20.0	0.0
100	QPSK	1	271	18.95	18.97	19.04		
100	QPSK	135	0	18.87	18.97	18.94		
100	QPSK	135	69	18.95	18.98	18.93	20.0	0.0
100	QPSK	135	138	18.90	18.95	18.94		
100	QPSK	270	0	19.01	19.05	18.90	20.0	0.0
100	16QAM	1	1	18.90	18.98	18.91	20.0	0.0
100	64QAM	1	1	18.97	19.04	19.03	20.0	0.0
100	256QAM	1	1	18.89	19.03	19.01	20.0	0.0
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.96	18.96	19.04	20.0	0.0
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	18.95	18.96	18.91	20.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	18.97	19.08	19.03	20.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	18.95	18.99	18.94	20.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	18.91	19.03	19.02	20.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.89	19.01	19.02	20.0	0.0
Channel				502200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.87	19.03	18.91	20.0	0.0
Channel				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.98	19.06	18.92	20.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	18.91	19.08	19.01	20.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.00	18.90	18.90	20.0	0.0



n48_FCC_Part96_Ant 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MFR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq	
Channel				636000	641666	645332	
Frequency (MHz)				3374	3624.99	3679.98	
40	PI2 BPSK	1	1	18.93	18.95	18.84	
40	PI2 BPSK	1	53	18.88	18.87	18.89	18.0
40	PI2 BPSK	1	104	18.85	18.87	18.91	
40	PI2 BPSK	50	0	18.84	18.85	18.78	18.0
40	PI2 BPSK	50	29	18.85	18.85	18.82	18.0
40	PI2 BPSK	50	56	18.94	18.96	18.77	
40	PI2 BPSK	100	0	18.89	18.94	18.83	18.0
40	QPSK	1	1	18.95	17.00	18.22	
40	QPSK	1	53	18.93	18.90	18.88	18.0
40	QPSK	1	104	18.85	18.90	18.91	
40	QPSK	50	0	18.86	18.91	18.77	
40	QPSK	50	29	18.95	18.97	18.85	18.0
40	QPSK	50	56	18.90	18.85	18.80	
40	QPSK	100	0	18.91	18.95	18.88	18.0
40	16QAM	1	1	18.92	18.97	18.83	18.0
40	64QAM	1	1	18.92	18.95	18.90	18.0
40	256QAM	1	1	18.89	18.88	18.78	18.0
Channel				637668	641666	645666	
Frequency (MHz)				3655.02	3624.99	3684.99	
30	QPSK	1	1	18.90	18.91	18.80	18.0
Channel				637234	641666	646000	
Frequency (MHz)				3660.01	3624.99	3690	
20	QPSK	1	1	18.87	18.95	18.88	18.0
Channel				637000	641666	645332	
Frequency (MHz)				3655	3624.99	3694.98	
10	QPSK	1	1	18.95	18.88	18.84	18.0

n48_FCC_Part96_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MFR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq	
Channel				636000	641666	645332	
Frequency (MHz)				3374	3624.99	3679.98	
40	PI2 BPSK	1	1	15.65	15.71	15.60	
40	PI2 BPSK	1	53	15.69	15.73	15.71	17.0
40	PI2 BPSK	1	104	15.65	15.63	15.70	
40	PI2 BPSK	50	0	15.57	15.63	15.64	17.0
40	PI2 BPSK	50	29	15.63	15.65	15.66	17.0
40	PI2 BPSK	50	56	15.55	15.65	15.65	
40	PI2 BPSK	100	0	15.64	15.73	15.67	17.0
40	QPSK	1	1	15.70	15.78	15.72	
40	QPSK	1	53	15.67	15.66	15.67	17.0
40	QPSK	1	104	15.69	15.73	15.61	
40	QPSK	50	0	15.57	15.70	15.69	
40	QPSK	50	29	15.69	15.72	15.71	17.0
40	QPSK	50	56	15.59	15.63	15.58	
40	QPSK	100	0	15.64	15.71	15.69	17.0
40	16QAM	1	1	15.60	15.73	15.68	17.0
40	64QAM	1	1	15.62	15.67	15.64	17.0
40	256QAM	1	1	15.62	15.69	15.64	17.0
Channel				637668	641666	645666	
Frequency (MHz)				3655.02	3624.99	3684.99	
30	QPSK	1	1	15.62	15.63	15.70	17.0
Channel				637234	641666	646000	
Frequency (MHz)				3660.01	3624.99	3690	
20	QPSK	1	1	15.64	15.76	15.65	17.0
Channel				637000	641666	645332	
Frequency (MHz)				3655	3624.99	3694.98	
10	QPSK	1	1	15.63	15.76	15.67	17.0



n48_FCC_Part96_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3209	3624.99	3679.98	
40	PI2 BPSK	1	1	20.29	20.30	20.37	21.5
40	PI2 BPSK	1	53	20.28	20.34	20.29	0.0
40	PI2 BPSK	1	104	20.27	20.32	20.28	0.0
40	PI2 BPSK	50	0	20.32	20.37	20.25	21.5
40	PI2 BPSK	50	26	20.33	20.37	20.32	0.0
40	PI2 BPSK	50	56	20.27	20.32	20.21	21.5
40	PI2 BPSK	100	0	20.30	20.28	20.27	0.0
40	QPSK	1	1	20.35	20.40	20.31	21.5
40	QPSK	1	53	20.36	20.37	20.34	0.0
40	QPSK	1	104	20.32	20.28	20.32	0.0
40	QPSK	50	0	20.25	20.30	20.28	21.5
40	QPSK	50	26	20.24	20.29	20.26	0.0
40	QPSK	50	56	20.27	20.28	20.25	21.5
40	QPSK	100	0	20.28	20.31	20.27	0.0
40	16QAM	1	1	19.89	20.03	19.99	21.5
40	16QAM	1	1	18.29	18.37	18.27	1.5
40	16QAM	1	1	18.96	18.87	18.72	3.5
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.99	
30	QPSK	1	1	20.30	20.30	20.28	21.5
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	20.22	20.26	20.23	21.5
Channel				635000	641666	645332	
Frequency (MHz)				3365	3624.99	3694.98	
10	QPSK	1	1	20.33	20.29	20.31	21.5

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3210	3624.99	3679.98	
40	PI2 BPSK	1	1	13.94	13.94	13.81	15.0
40	PI2 BPSK	1	53	13.92	13.89	13.86	0.0
40	PI2 BPSK	1	104	13.90	13.97	13.82	0.0
40	PI2 BPSK	50	0	13.97	13.97	13.81	15.0
40	PI2 BPSK	50	26	13.96	13.90	13.81	0.0
40	PI2 BPSK	50	56	13.87	13.85	13.89	15.0
40	PI2 BPSK	100	0	13.93	13.87	13.93	0.0
40	QPSK	1	1	13.96	14.00	13.95	15.0
40	QPSK	1	53	13.96	13.96	13.95	0.0
40	QPSK	1	104	13.96	13.97	13.85	0.0
40	QPSK	50	0	13.88	13.90	13.86	15.0
40	QPSK	50	26	13.91	13.88	13.86	0.0
40	QPSK	50	56	13.89	13.94	13.82	0.0
40	QPSK	100	0	13.87	13.90	13.89	15.0
40	16QAM	1	1	13.88	13.96	13.92	15.0
40	16QAM	1	1	13.83	13.97	13.83	0.0
40	16QAM	1	1	13.95	13.99	13.89	15.0
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.99	
30	QPSK	1	1	13.98	13.92	13.81	15.0
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	13.88	13.98	13.83	15.0
Channel				635000	641666	645332	
Frequency (MHz)				3365	3624.99	3694.98	
10	QPSK	1	1	13.83	13.85	13.89	15.0



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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)								
100	Pl2 BPSK	1	1	15.50	15.59	15.55		
100	Pl2 BPSK	1	137	15.52	15.61	15.57	16.5	0.0
100	Pl2 BPSK	1	271	15.54	15.56	15.56		
100	Pl2 BPSK	136	0	15.55	15.68	15.56	16.5	0.0
100	Pl2 BPSK	136	69	15.63	15.56	15.57	16.5	0.0
100	Pl2 BPSK	136	138	15.58	15.60	15.55	16.5	0.0
100	Pl2 BPSK	270	0	15.51	15.62	15.58		
100	QPSK	1	1	15.50	15.70	15.61		
100	QPSK	1	137	15.58	15.66	15.51	16.5	0.0
100	QPSK	1	271	15.51	15.66	15.54		
100	QPSK	136	0	15.58	15.59	15.56		
100	QPSK	136	69	15.66	15.65	15.56	16.5	0.0
100	QPSK	136	138	15.55	15.64	15.55		
100	QPSK	270	0	15.57	15.63	15.61	16.5	0.0
100	16QAM	1	1	15.56	15.64	15.62	16.5	0.0
100	16QAM	1	1	15.56	15.55	15.53	16.5	0.0
100	16QAM	1	1	15.56	15.64	15.58	16.5	0.0
100	256QAM	1	1	15.56	15.64	15.58	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.60	15.64	15.48	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.57	15.60	15.58	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.50	15.61	15.61	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.57	15.62	15.62	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.57	15.67	15.51	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.55	15.62	15.50	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.51	15.63	15.58	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.57	15.63	15.50	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.52	15.61	15.56	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.61	15.60	15.52	16.5	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)								
100	Pl2 BPSK	1	1	15.50	15.59	15.55		
100	Pl2 BPSK	1	137	15.52	15.61	15.57	16.5	0.0
100	Pl2 BPSK	1	271	15.54	15.56	15.56		
100	Pl2 BPSK	136	0	15.55	15.68	15.56	16.5	0.0
100	Pl2 BPSK	136	69	15.63	15.56	15.57	16.5	0.0
100	Pl2 BPSK	136	138	15.58	15.60	15.55	16.5	0.0
100	Pl2 BPSK	270	0	15.51	15.62	15.58		
100	QPSK	1	1	15.50	15.70	15.61		
100	QPSK	1	137	15.58	15.66	15.51	16.5	0.0
100	QPSK	1	271	15.51	15.66	15.54		
100	QPSK	136	0	15.58	15.59	15.56		
100	QPSK	136	69	15.66	15.65	15.56	16.5	0.0
100	QPSK	136	138	15.55	15.64	15.55		
100	QPSK	270	0	15.57	15.63	15.61	16.5	0.0
100	16QAM	1	1	15.56	15.64	15.62	16.5	0.0
100	16QAM	1	1	15.56	15.55	15.53	16.5	0.0
100	16QAM	1	1	15.56	15.64	15.58	16.5	0.0
100	256QAM	1	1	15.56	15.64	15.58	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.60	15.64	15.48	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.57	15.60	15.58	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.50	15.61	15.61	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.57	15.62	15.62	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.57	15.67	15.51	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.55	15.62	15.50	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.51	15.63	15.58	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.57	15.63	15.50	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.52	15.61	15.56	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.61	15.60	15.52	16.5	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)								
100	Pl2 BPSK	1	1		15.59	349.198		
100	Pl2 BPSK	1	137		15.50		16.5	0.0
100	Pl2 BPSK	1	271		15.59			
100	Pl2 BPSK	136	0		15.45		16.5	0.0
100	Pl2 BPSK	136	69		15.53		16.5	0.0
100	Pl2 BPSK	136	138		15.47		16.5	0.0
100	Pl2 BPSK	270	0		15.46			
100	QPSK	1	1		15.50			
100	QPSK	1	137		15.50		16.5	0.0
100	QPSK	1	271		15.48			
100	QPSK	136	0		15.50			
100	QPSK	136	69		15.57		16.5	0.0
100	QPSK	136	138		15.52			
100	QPSK	270	0		15.54		16.5	0.0
100	16QAM	1	1		15.47		16.5	0.0
100	16QAM	1	1		15.47		16.5	0.0
100	256QAM	1	1		15.57		16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	63000	63332	63666	Tune-up limit	MPR
80	QPSK	1	1	3495	349.198	350.4	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.52	15.48	15.51	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.57	15.59	15.51	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	3485.01	3499.98	3514.98	Tune-up limit	MPR
70	QPSK	1	1	15.51	15.58	15.47	(dBm)	(dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	63000	63332	63666	Tune-up limit	MPR
60	QPSK	1	1	3495.02	3499.98	3525	(dBm)	(dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.48	15.49	15.52	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	631668	63332	635000	Tune-up limit	MPR
50	QPSK	1	1	3495.02	3499.98	3534.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.48	15.48	15.46	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	63332	63532	Tune-up limit	MPR
40	QPSK	1	1	3476.01	3499.98	3529.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.47	15.48	15.52	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	631668	63332	635666	Tune-up limit	MPR
30	QPSK	1	1	3486	3499.98	3534.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.56	15.52	15.49	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	631668	63332	636000	Tune-up limit	MPR
20	QPSK	1	1	3500.02	3499.98	3500	(dBm)	(dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.57	15.48	15.48	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	63000	63332	636166	Tune-up limit	MPR
15	QPSK	1	1	3495.05	3499.98	3492.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.48	15.54	15.52	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	630334	63332	636332	Tune-up limit	MPR
10	QPSK	1	1	3492.01	3499.98	3541.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.55	15.53	15.54	16.5	0.0



Par27Q n77_Ant 4_HPUE										
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	15.50	3499.98					
100	PI2 BPSK	1	137	15.50	3499.98		16.5	0.0		
100	PI2 BPSK	1	271	15.50	3499.98					
100	PI2 BPSK	135	0	15.45			16.5	0.0		
100	PI2 BPSK	135	69	15.53			16.5	0.0		
100	PI2 BPSK	135	138	15.47			16.5	0.0		
100	PI2 BPSK	270	0	15.48						
100	QPSK	1	1	15.60			16.5	0.0		
100	QPSK	1	137	15.50						
100	QPSK	1	271	15.48						
100	QPSK	135	0	15.50			16.5	0.0		
100	QPSK	135	69	15.57						
100	QPSK	135	138	15.52						
100	QPSK	270	0	15.54			16.5	0.0		
100	16QAM	1	1	15.47			16.5	0.0		
100	64QAM	1	1	15.47			16.5	0.0		
100	256QAM	1	1	15.57			16.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	15.52	3499.98	3499.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	15.52	3499.98	3499.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
70	QPSK	1	1	15.51	3499.98	3499.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	15.46	3499.98	3499.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	QPSK	1	1	15.43	3499.98	3499.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	15.34	3499.98	3499.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.56	3499.98	3499.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.57	3499.98	3499.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.48	3499.98	3499.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.55	3499.98	3499.98	Tune-up limit (dBm)	MPR (dB)		

Par27Q n77_Ant 7										
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	16.52	3796	3796				
100	PI2 BPSK	1	137	16.47	3796	3796	18.0	0.0		
100	PI2 BPSK	1	271	16.45	3796	3796				
100	PI2 BPSK	135	0	16.48	3796	3796	18.0	0.0		
100	PI2 BPSK	135	69	16.45	3796	3796	18.0	0.0		
100	PI2 BPSK	135	138	16.47	3796	3796	18.0	0.0		
100	PI2 BPSK	270	0	16.49	3796	3796	18.0	0.0		
100	QPSK	1	1	16.53	3796	3796	18.0	0.0		
100	QPSK	1	137	16.47	3796	3796	18.0	0.0		
100	QPSK	1	271	16.48	3796	3796	18.0	0.0		
100	QPSK	135	0	16.48	3796	3796	18.0	0.0		
100	QPSK	135	69	16.45	3796	3796	18.0	0.0		
100	QPSK	135	138	16.45	3796	3796	18.0	0.0		
100	QPSK	270	0	16.50	3796	3796	18.0	0.0		
100	16QAM	1	1	16.41	3796	3796	18.0	0.0		
100	64QAM	1	1	16.38	3796	3796	18.0	0.0		
100	256QAM	1	1	16.43	3796	3796	18.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	16.52	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.47	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
70	QPSK	1	1	16.52	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.49	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	QPSK	1	1	16.43	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.51	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.43	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.38	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.44	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.42	3796	3796	Tune-up limit (dBm)	MPR (dB)		

Par27Q n77_Ant 7_HPUE										
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	16.52	3796	3796				
100	PI2 BPSK	1	137	16.47	3796	3796	18.0	0.0		
100	PI2 BPSK	1	271	16.45	3796	3796				
100	PI2 BPSK	135	0	16.48	3796	3796	18.0	0.0		
100	PI2 BPSK	135	69	16.45	3796	3796	18.0	0.0		
100	PI2 BPSK	135	138	16.47	3796	3796	18.0	0.0		
100	PI2 BPSK	270	0	16.49	3796	3796	18.0	0.0		
100	QPSK	1	1	16.53	3796	3796	18.0	0.0		
100	QPSK	1	137	16.47	3796	3796	18.0	0.0		
100	QPSK	1	271	16.48	3796	3796	18.0	0.0		
100	QPSK	135	0	16.48	3796	3796	18.0	0.0		
100	QPSK	135	69	16.45	3796	3796	18.0	0.0		
100	QPSK	135	138	16.45	3796	3796	18.0	0.0		
100	QPSK	270	0	16.50	3796	3796	18.0	0.0		
100	16QAM	1	1	16.41	3796	3796	18.0	0.0		
100	64QAM	1	1	16.38	3796	3796	18.0	0.0		
100	256QAM	1	1	16.43	3796	3796	18.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	16.52	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.47	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
70	QPSK	1	1	16.52	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.49	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	QPSK	1	1	16.43	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.51	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.43	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.38	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.44	3796	3796	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.42	3796	3796	Tune-up limit (dBm)	MPR (dB)		



Par27Q n77_Ant 7										
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	16.41	16.41	16.41				
100	PI2 BPSK	1	137	16.52	16.52	16.52	18.0	0.0		
100	PI2 BPSK	1	271	16.48	16.48	16.48				
100	PI2 BPSK	135	0	16.42	16.42	16.42	18.0	0.0		
100	PI2 BPSK	135	69	16.52	16.52	16.52	18.0	0.0		
100	PI2 BPSK	135	138	16.40	16.40	16.40	18.0	0.0		
100	PI2 BPSK	270	0	16.41	16.41	16.41				
100	QPSK	1	1	16.53	16.53	16.53	18.0	0.0		
100	QPSK	1	137	16.51	16.51	16.51				
100	QPSK	1	271	16.49	16.49	16.49				
100	QPSK	135	0	16.39	16.39	16.39	18.0	0.0		
100	QPSK	135	69	16.59	16.59	16.59				
100	QPSK	135	138	16.38	16.38	16.38	18.0	0.0		
100	QPSK	270	0	16.49	16.49	16.49	18.0	0.0		
100	16QAM	1	1	16.49	16.49	16.49	18.0	0.0		
100	64QAM	1	1	16.59	16.59	16.59	18.0	0.0		
100	256QAM	1	1	16.43	16.43	16.43	18.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	16.38	16.50	16.40	18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.44	16.48	16.45	18.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	16.40	16.39	16.41	18.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.48	16.46	16.49	18.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	16.40	16.39	16.39	18.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.43	16.40	16.44	18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.40	16.40	16.44	18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.38	16.43	16.49	18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.49	16.46	16.44	18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.40	16.50	16.49	18.0	0.0		

Par27Q n77_Ant 7_HPUE										
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	16.41	16.41	16.41				
100	PI2 BPSK	1	137	16.52	16.52	16.52	18.0	0.0		
100	PI2 BPSK	1	271	16.48	16.48	16.48				
100	PI2 BPSK	135	0	16.42	16.42	16.42	18.0	0.0		
100	PI2 BPSK	135	69	16.52	16.52	16.52	18.0	0.0		
100	PI2 BPSK	135	138	16.40	16.40	16.40	18.0	0.0		
100	PI2 BPSK	270	0	16.41	16.41	16.41				
100	QPSK	1	1	16.53	16.53	16.53	18.0	0.0		
100	QPSK	1	137	16.51	16.51	16.51				
100	QPSK	1	271	16.49	16.49	16.49				
100	QPSK	135	0	16.39	16.39	16.39	18.0	0.0		
100	QPSK	135	69	16.59	16.59	16.59				
100	QPSK	135	138	16.38	16.38	16.38	18.0	0.0		
100	QPSK	270	0	16.49	16.49	16.49	18.0	0.0		
100	16QAM	1	1	16.49	16.49	16.49	18.0	0.0		
100	64QAM	1	1	16.59	16.59	16.59	18.0	0.0		
100	256QAM	1	1	16.43	16.43	16.43	18.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	16.38	16.50	16.40	18.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.44	16.48	16.45	18.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	16.40	16.39	16.41	18.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.48	16.46	16.49	18.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	16.40	16.39	16.39	18.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.43	16.40	16.44	18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.40	16.40	16.44	18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.38	16.43	16.49	18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.49	16.46	16.44	18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.40	16.50	16.49	18.0	0.0		

Par27O n77_Ant 8										
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	17.54	17.65	17.52				
100	PI2 BPSK	1	137	17.54	17.58	17.55	19.0	0.0		
100	PI2 BPSK	1	271	17.47	17.59	17.47				
100	PI2 BPSK	135	0	17.52	17.64	17.49	19.0	0.0		
100	PI2 BPSK	135	69	17.47	17.60	17.38	19.0	0.0		
100	PI2 BPSK	135	138	17.48	17.58	17.51	19.0	0.0		
100	PI2 BPSK	270	0	17.37	17.67	17.53				
100	QPSK	1	1	17.23	17.68	17.43				
100	QPSK	1	137	17.48	17.62	17.50	19.0	0.0		
100	QPSK	1	271	17.45	17.59	17.50				
100	QPSK	135	0	17.50	17.61	17.43				
100	QPSK	135	69	17.59	17.64	17.41	19.0	0.0		
100	QPSK	135	138	17.43	17.62	17.46				
100	QPSK	270	0	17.52	17.60	17.45	19.0	0.0		
100	16QAM	1	1	17.53	17.52	17.64	19.0	0.0		
100	64QAM	1	1	17.52	17.54	17.38	19.0	0.0		
100	256QAM	1	1	17.56	16.89	17.83	18.5	0.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.65	17.60	17.67	19.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.66	17.66	17.65	19.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	17.60	17.60	17.62	19.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	17.64	17.58	17.62	19.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	17.64	17.59	17.64	19.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	17.62	17.62	17.61	19.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	17.60	17.59	17.62	19.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	17.64	17.61	17.64	19.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.58	17.63	17.64	19.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	17.63	17.59	17.67	19.0	0.0		



Par270 n77_Ant 8_HPUE									
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	17.54	17.65	17.52			
100	PI2 BPSK	1	137	17.54	17.58	17.55	19.0	0.0	
100	PI2 BPSK	1	271	17.47	17.59	17.47			
100	PI2 BPSK	135	0	17.52	17.64	17.49	19.0	0.0	
100	PI2 BPSK	135	69	17.47	17.60	17.36	19.0	0.0	
100	PI2 BPSK	135	138	17.48	17.58	17.51			
100	PI2 BPSK	270	0	17.37	17.67	17.53	19.0	0.0	
100	QPSK	1	1	17.52	17.68	17.62			
100	QPSK	1	137	17.48	17.62	17.50	19.0	0.0	
100	QPSK	1	271	17.45	17.59	17.50			
100	QPSK	135	0	17.50	17.81	17.43			
100	QPSK	135	69	17.45	17.84	17.41	19.0	0.0	
100	QPSK	135	138	17.43	17.62	17.46			
100	QPSK	270	0	17.52	17.60	17.45	19.0	0.0	
100	16QAM	1	1	17.53	17.52	17.64	19.0	0.0	
100	64QAM	1	1	17.52	17.54	17.36	19.0	0.0	
100	256QAM	1	1	17.56	16.89	17.63	18.5	0.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.60	17.60	17.67	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.66	17.66	17.65	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.60	17.60	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.64	17.58	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.64	17.60	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.60	17.60	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.60	17.59	17.62	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.64	17.61	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.58	17.63	17.64	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.63	17.59	17.67	19.0	0.0	

Par270 n77_Ant 8									
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		17.53				
100	PI2 BPSK	1	137		17.58		19.0	0.0	
100	PI2 BPSK	1	271		17.52				
100	PI2 BPSK	135	0		17.52		19.0	0.0	
100	PI2 BPSK	135	69		17.58		19.0	0.0	
100	PI2 BPSK	135	138		17.52				
100	PI2 BPSK	270	0		17.60		19.0	0.0	
100	QPSK	1	1		17.65				
100	QPSK	1	137		17.57		19.0	0.0	
100	QPSK	1	271		17.57				
100	QPSK	135	0		17.58				
100	QPSK	135	69		17.62		19.0	0.0	
100	QPSK	135	138		17.55				
100	QPSK	270	0		17.53		19.0	0.0	
100	16QAM	1	1		17.58		19.0	0.0	
100	64QAM	1	1		17.54		19.0	0.0	
100	256QAM	1	1		16.41		18.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.60	17.56	17.63	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.56	17.54	17.61	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.57	17.50	17.56	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.53	17.51	17.60	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.53	17.43	17.56	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.52	17.47	17.56	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.58	17.55	17.55	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.56	17.47	17.58	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.53	17.54	17.55	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.54	17.54	17.57	19.0	0.0	

Par270 n77_Ant 8_HPUE									
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		17.53				
100	PI2 BPSK	1	137		17.58		19.0	0.0	
100	PI2 BPSK	1	271		17.52				
100	PI2 BPSK	135	0		17.52		19.0	0.0	
100	PI2 BPSK	135	69		17.58		19.0	0.0	
100	PI2 BPSK	135	138		17.52				
100	PI2 BPSK	270	0		17.60		19.0	0.0	
100	QPSK	1	1		17.65				
100	QPSK	1	137		17.57		19.0	0.0	
100	QPSK	1	271		17.57				
100	QPSK	135	0		17.58				
100	QPSK	135	69		17.62		19.0	0.0	
100	QPSK	135	138		17.55				
100	QPSK	270	0		17.53		19.0	0.0	
100	16QAM	1	1		17.58		19.0	0.0	
100	64QAM	1	1		17.54		19.0	0.0	
100	256QAM	1	1		16.41		18.0	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.60	17.56	17.63	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.56	17.54	17.61	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.57	17.50	17.56	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.53	17.51	17.60	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.53	17.43	17.56	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.52	17.47	17.56	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.58	17.55	17.55	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.56	17.47	17.58	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.53	17.54	17.55	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.54	17.54	17.57	19.0	0.0	



Par270 n77_Ant 10

Table with 11 columns: 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). Contains data for various modulation schemes like BPSK, QPSK, 16QAM, 64QAM, 256QAM across different bandwidths (100, 80, 70, 60, 50, 40, 30, 20, 15, 10 MHz).

Par270 n77_Ant_10_HPUE

Table with 11 columns: 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). Similar to the first table but with a yellow header and potentially different power values.

Par270 n77_Ant 10

Table with 11 columns: 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). Similar to the first table but with a grey header and potentially different power values.



Par27Q n77_Ant 10_HPUE										
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	12.14	12.11	12.14				
100	PI2 BPSK	1	137	12.11	12.11	12.11	13.5	0.0		
100	PI2 BPSK	1	271	12.13	12.13	12.13				
100	PI2 BPSK	135	0	12.12	12.12	12.12	13.5	0.0		
100	PI2 BPSK	135	138	12.05	12.05	12.05				
100	PI2 BPSK	270	0	12.12	12.12	12.12	13.5	0.0		
100	QPSK	1	1	12.29	12.29	12.29				
100	QPSK	1	137	12.17	12.17	12.17	13.5	0.0		
100	QPSK	1	271	12.04	12.04	12.04				
100	QPSK	135	0	12.10	12.10	12.10				
100	QPSK	135	138	12.25	12.25	12.25	13.5	0.0		
100	QPSK	135	138	12.08	12.08	12.08				
100	QPSK	270	0	12.16	12.16	12.16	13.5	0.0		
100	16QAM	1	1	12.18	12.18	12.18				
100	64QAM	1	1	12.22	12.22	12.22	13.5	0.0		
100	256QAM	1	1	12.12	12.12	12.12	13.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	12.41	12.10	12.07	13.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	12.09	12.11	12.15	13.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	12.09	12.21	12.10	13.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	12.05	12.21	12.08	13.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	12.05	12.13	12.01	13.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	12.10	12.10	12.13	13.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	12.17	12.16	12.07	13.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	12.14	12.20	12.01	13.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	12.05	12.13	12.16	13.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	12.01	12.22	12.15	13.5	0.0		

Par270 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)										
100	PI2 BPSK	1	1	15.44	15.44	15.44				
100	PI2 BPSK	1	137	15.45	15.45	15.45	16.5	0.0		
100	PI2 BPSK	1	271	15.41	15.41	15.41				
100	PI2 BPSK	135	0	15.39	15.39	15.39	16.5	0.0		
100	PI2 BPSK	135	138	15.47	15.47	15.47				
100	PI2 BPSK	135	138	15.47	15.47	15.47	16.5	0.0		
100	PI2 BPSK	270	0	15.39	15.39	15.39				
100	QPSK	1	1	15.52	15.52	15.52				
100	QPSK	1	137	15.49	15.49	15.49	16.5	0.0		
100	QPSK	1	271	15.38	15.38	15.38				
100	QPSK	135	0	15.49	15.49	15.49				
100	QPSK	135	138	15.58	15.58	15.58	16.5	0.0		
100	QPSK	135	138	15.48	15.48	15.48				
100	QPSK	270	0	15.43	15.43	15.43	16.5	0.0		
100	16QAM	1	1	15.46	15.46	15.46				
100	64QAM	1	1	15.49	15.49	15.49	16.5	0.0		
100	256QAM	1	1	15.42	15.42	15.42	16.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	15.40	15.45	15.40	16.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	15.46	15.49	15.43	16.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	15.48	15.43	15.39	16.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	15.49	15.47	15.47	16.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	15.50	15.46	15.44	16.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	15.43	15.47	15.39	16.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.46	15.42	15.42	16.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.49	15.45	15.51	16.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.49	15.44	15.40	16.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.40	15.46	15.41	16.5	0.0		

Par270 n78_Ant 4_HPUE										
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	15.44	15.44	15.44				
100	PI2 BPSK	1	137	15.45	15.45	15.45	16.5	0.0		
100	PI2 BPSK	1	271	15.41	15.41	15.41				
100	PI2 BPSK	135	0	15.39	15.39	15.39	16.5	0.0		
100	PI2 BPSK	135	138	15.47	15.47	15.47				
100	PI2 BPSK	135	138	15.47	15.47	15.47	16.5	0.0		
100	PI2 BPSK	270	0	15.39	15.39	15.39				
100	QPSK	1	1	15.52	15.52	15.52				
100	QPSK	1	137	15.49	15.49	15.49	16.5	0.0		
100	QPSK	1	271	15.38	15.38	15.38				
100	QPSK	135	0	15.49	15.49	15.49				
100	QPSK	135	138	15.58	15.58	15.58	16.5	0.0		
100	QPSK	135	138	15.48	15.48	15.48				
100	QPSK	270	0	15.43	15.43	15.43	16.5	0.0		
100	16QAM	1	1	15.46	15.46	15.46				
100	64QAM	1	1	15.49	15.49	15.49	16.5	0.0		
100	256QAM	1	1	15.42	15.42	15.42	16.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	15.44	15.45	15.40	16.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	15.48	15.49	15.43	16.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	15.48	15.43	15.39	16.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	15.49	15.47	15.47	16.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	15.50	15.46	15.44	16.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	15.43	15.47	15.39	16.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.46	15.42	15.42	16.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.49	15.45	15.51	16.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.49	15.44	15.40	16.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.40	15.46	15.41	16.5	0.0		



Part27Q 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)	MFR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.42	3499.98				
100	PI2 BPSK	1	137	15.38			16.5	0.0	
100	PI2 BPSK	1	271	15.40					
100	PI2 BPSK	135	0	15.34			16.5	0.0	
100	PI2 BPSK	135	69	15.37			16.5	0.0	
100	PI2 BPSK	135	138	15.39			16.5	0.0	
100	PI2 BPSK	270	0	15.34			16.5	0.0	
100	QPSK	1	1	15.43					
100	QPSK	1	137	15.42			16.5	0.0	
100	QPSK	1	271	15.38					
100	QPSK	135	0	15.38			16.5	0.0	
100	QPSK	135	69	15.42			16.5	0.0	
100	QPSK	135	138	15.39			16.5	0.0	
100	QPSK	270	0	15.38			16.5	0.0	
100	16QAM	1	1	15.34			16.5	0.0	
100	64QAM	1	1	15.28			16.5	0.0	
100	256QAM	1	1	15.35			16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.35	3499.98	3504.98	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.35	3499.98	3510	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.29	3499.98	3514.98	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.37	3499.98	3537	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.29	3499.98	3552	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.42	3499.98	3554.98	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.42	3499.98	3554.98	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.37	3499.98	3550	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.32	3499.98	3544.98	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.35	3499.98	3540	16.5	0.0	

Part27Q n78_Ant 4_HPUE									
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)									
100	PI2 BPSK	1	1	15.42	3499.98				
100	PI2 BPSK	1	137	15.38			16.5	0.0	
100	PI2 BPSK	1	271	15.40					
100	PI2 BPSK	135	0	15.34			16.5	0.0	
100	PI2 BPSK	135	69	15.37			16.5	0.0	
100	PI2 BPSK	135	138	15.39			16.5	0.0	
100	PI2 BPSK	270	0	15.34			16.5	0.0	
100	QPSK	1	1	15.43					
100	QPSK	1	137	15.42			16.5	0.0	
100	QPSK	1	271	15.38					
100	QPSK	135	0	15.38			16.5	0.0	
100	QPSK	135	69	15.42			16.5	0.0	
100	QPSK	135	138	15.39			16.5	0.0	
100	QPSK	270	0	15.38			16.5	0.0	
100	16QAM	1	1	15.34			16.5	0.0	
100	64QAM	1	1	15.28			16.5	0.0	
100	256QAM	1	1	15.35			16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.35	3499.98	3504.98	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.35	3499.98	3510	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.29	3499.98	3514.98	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.37	3499.98	3537	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.29	3499.98	3552	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.42	3499.98	3554.98	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.42	3499.98	3554.98	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.37	3499.98	3550	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	15.32	3499.98	3544.98	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.35	3499.98	3540	16.5	0.0	



Par270 n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.47	18.47	18.47	0.0
100	PI2 BPSK	1	137	18.53	18.53	18.53	0.0
100	PI2 BPSK	1	271	18.53	18.53	18.53	0.0
100	PI2 BPSK	135	0	18.55	18.55	18.55	0.0
100	PI2 BPSK	135	69	18.49	18.49	18.49	0.0
100	PI2 BPSK	135	138	18.44	18.44	18.44	0.0
100	PI2 BPSK	270	0	18.53	18.53	18.53	0.0
100	QPSK	1	1	18.57	18.57	18.57	0.0
100	QPSK	1	137	18.56	18.56	18.56	0.0
100	QPSK	1	271	18.45	18.45	18.45	0.0
100	QPSK	135	0	18.46	18.46	18.46	0.0
100	QPSK	135	69	18.53	18.53	18.53	0.0
100	QPSK	135	138	18.48	18.48	18.48	0.0
100	QPSK	270	0	18.52	18.52	18.52	0.0
100	16QAM	1	1	18.45	18.45	18.45	0.0
100	64QAM	1	1	18.53	18.53	18.53	0.0
100	256QAM	1	1	18.46	18.46	18.46	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.54	18.48	18.55	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.46	18.49	18.44	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.46	18.43	18.42	0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.52	18.51	18.51	0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.43	18.48	18.52	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.54	18.47	18.48	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.48	18.54	18.52	0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.46	18.52	18.45	0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.55	18.46	18.44	0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.50	18.55	18.52	0.0

Par270 n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.47	18.47	18.47	0.0
100	PI2 BPSK	1	137	18.53	18.53	18.53	0.0
100	PI2 BPSK	1	271	18.53	18.53	18.53	0.0
100	PI2 BPSK	135	0	18.55	18.55	18.55	0.0
100	PI2 BPSK	135	69	18.49	18.49	18.49	0.0
100	PI2 BPSK	135	138	18.44	18.44	18.44	0.0
100	PI2 BPSK	270	0	18.53	18.53	18.53	0.0
100	QPSK	1	1	18.57	18.57	18.57	0.0
100	QPSK	1	137	18.56	18.56	18.56	0.0
100	QPSK	1	271	18.45	18.45	18.45	0.0
100	QPSK	135	0	18.46	18.46	18.46	0.0
100	QPSK	135	69	18.53	18.53	18.53	0.0
100	QPSK	135	138	18.48	18.48	18.48	0.0
100	QPSK	270	0	18.52	18.52	18.52	0.0
100	16QAM	1	1	18.45	18.45	18.45	0.0
100	64QAM	1	1	18.53	18.53	18.53	0.0
100	256QAM	1	1	18.46	18.46	18.46	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.54	18.48	18.55	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.46	18.49	18.44	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.46	18.43	18.42	0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.52	18.51	18.51	0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.43	18.48	18.52	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.54	18.47	18.48	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.48	18.54	18.52	0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.46	18.52	18.45	0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.55	18.46	18.44	0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.50	18.55	18.52	0.0



Part27Q n78_Ant 7									
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	16.43	16.43	16.43			
100	PI2 BPSK	1	137	16.44	16.44	16.44	18.0	0.0	
100	PI2 BPSK	1	271	16.48	16.48	16.48			
100	PI2 BPSK	135	0	16.43	16.43	16.43	18.0	0.0	
100	PI2 BPSK	135	69	16.29	16.29	16.29	18.0	0.0	
100	PI2 BPSK	135	138	16.49	16.49	16.49	18.0	0.0	
100	PI2 BPSK	270	0	16.39	16.39	16.39			
100	QPSK	1	1	16.20	16.20	16.20			
100	QPSK	1	137	16.47	16.47	16.47	18.0	0.0	
100	QPSK	1	271	16.41	16.41	16.41			
100	QPSK	135	0	16.38	16.38	16.38			
100	QPSK	135	69	16.46	16.46	16.46	18.0	0.0	
100	QPSK	135	138	16.45	16.45	16.45			
100	QPSK	270	0	16.38	16.38	16.38	18.0	0.0	
100	16QAM	1	1	16.35	16.35	16.35	18.0	0.0	
100	16QAM	1	1	16.37	16.37	16.37	18.0	0.0	
100	256QAM	1	1	16.40	16.40	16.40	18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.47	16.42	16.44	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.35	16.41	16.43	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.49	16.44	16.43	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.41	16.47	16.39	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.42	16.45	16.40	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.40	16.43	16.40	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.45	16.37	16.38	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.45	16.38	16.38	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.44	16.45	16.37	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.37	16.43	16.37	18.0	0.0	

Part27Q n78_Ant 7_HPUE									
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	16.43	16.43	16.43			
100	PI2 BPSK	1	137	16.44	16.44	16.44	18.0	0.0	
100	PI2 BPSK	1	271	16.48	16.48	16.48			
100	PI2 BPSK	135	0	16.43	16.43	16.43	18.0	0.0	
100	PI2 BPSK	135	69	16.29	16.29	16.29	18.0	0.0	
100	PI2 BPSK	135	138	16.49	16.49	16.49	18.0	0.0	
100	PI2 BPSK	270	0	16.39	16.39	16.39			
100	QPSK	1	1	16.20	16.20	16.20			
100	QPSK	1	137	16.47	16.47	16.47	18.0	0.0	
100	QPSK	1	271	16.41	16.41	16.41			
100	QPSK	135	0	16.38	16.38	16.38			
100	QPSK	135	69	16.46	16.46	16.46	18.0	0.0	
100	QPSK	135	138	16.45	16.45	16.45			
100	QPSK	270	0	16.38	16.38	16.38	18.0	0.0	
100	16QAM	1	1	16.35	16.35	16.35	18.0	0.0	
100	16QAM	1	1	16.37	16.37	16.37	18.0	0.0	
100	256QAM	1	1	16.40	16.40	16.40	18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.47	16.42	16.44	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.35	16.41	16.43	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.49	16.44	16.43	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.41	16.47	16.39	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.42	16.45	16.40	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.40	16.43	16.40	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.45	16.37	16.38	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.45	16.38	16.38	18.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.44	16.45	16.37	18.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.37	16.43	16.37	18.0	0.0	



Par270 n78_Ant 8								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.52	3792			
100	PI2 BPSK	1	137	17.55			19.0	0.0
100	PI2 BPSK	1	271	17.56				
100	PI2 BPSK	135	0	17.53			19.0	0.0
100	PI2 BPSK	135	69	17.42			19.0	0.0
100	PI2 BPSK	135	138	17.51			19.0	0.0
100	PI2 BPSK	270	0	17.38				
100	QPSK	1	1	17.28				
100	QPSK	1	137	17.41			19.0	0.0
100	QPSK	1	271	17.40				
100	QPSK	135	0	17.44				
100	QPSK	135	69	17.53			19.0	0.0
100	QPSK	135	138	17.35				
100	QPSK	270	0	17.51			19.0	0.0
100	16QAM	1	1	17.53			19.0	0.0
100	64QAM	1	1	17.53			19.0	0.0
100	256QAM	1	1	18.81			18.5	0.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.45	17.50	17.44	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.57	17.44	17.38	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.40	17.45	17.36	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.49	17.40	17.39	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.45	17.53	17.52	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.29	17.50	17.60	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.57	17.57	17.35	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.43	17.40	17.36	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.39	17.47	17.50	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.57	17.45	17.52	19.0	0.0

Par270 n78_Ant 8_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.52	3792			
100	PI2 BPSK	1	137	17.55			19.0	0.0
100	PI2 BPSK	1	271	17.56				
100	PI2 BPSK	135	0	17.53			19.0	0.0
100	PI2 BPSK	135	69	17.42			19.0	0.0
100	PI2 BPSK	135	138	17.51			19.0	0.0
100	PI2 BPSK	270	0	17.38				
100	QPSK	1	1	17.28				
100	QPSK	1	137	17.41			19.0	0.0
100	QPSK	1	271	17.40				
100	QPSK	135	0	17.44				
100	QPSK	135	69	17.53			19.0	0.0
100	QPSK	135	138	17.35				
100	QPSK	270	0	17.51			19.0	0.0
100	16QAM	1	1	17.53			19.0	0.0
100	64QAM	1	1	17.53			19.0	0.0
100	256QAM	1	1	18.81			18.5	0.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.45	17.50	17.44	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.57	17.44	17.38	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.40	17.45	17.36	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.49	17.40	17.39	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.45	17.53	17.52	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.29	17.50	17.60	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.57	17.57	17.35	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.43	17.40	17.36	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.39	17.47	17.50	19.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	17.57	17.45	17.52	19.0	0.0



Part27Q n78_Ant 8									
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	17.40	17.45	17.49			
100	PI2 BPSK	1	137	17.53	17.58	17.62	19.0	0.0	
100	PI2 BPSK	1	271	17.56	17.61	17.65			
100	PI2 BPSK	135	0	17.58	17.63	17.68	19.0	0.0	
100	PI2 BPSK	135	69	17.64	17.69	17.74	19.0	0.0	
100	PI2 BPSK	135	138	17.39	17.44	17.49	19.0	0.0	
100	PI2 BPSK	270	0	17.51	17.56	17.61			
100	QPSK	1	1	17.29	17.34	17.39			
100	QPSK	1	137	17.57	17.62	17.67	19.0	0.0	
100	QPSK	1	271	17.45	17.50	17.55			
100	QPSK	135	0	17.47	17.52	17.57			
100	QPSK	135	69	17.55	17.60	17.65	19.0	0.0	
100	QPSK	135	138	17.38	17.43	17.48	19.0	0.0	
100	QPSK	270	0	17.50	17.55	17.60			
100	16QAM	1	1	17.45	17.50	17.55			
100	16QAM	1	1	17.48	17.53	17.58	19.0	0.0	
100	256QAM	1	1	16.23	17.2	17.5			
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.40	17.45	17.50	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.36	17.41	17.46	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.44	17.52	17.47	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.46	17.53	17.37	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.34	17.33	17.33	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.33	17.44	17.23	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.46	17.41	17.28	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.51	17.48	17.35	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.37	17.47	17.44	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.42	17.45	17.27	19.0	0.0	

Part27Q n78_Ant 8_HPUE									
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	17.40	17.45	17.49			
100	PI2 BPSK	1	137	17.53	17.58	17.62	19.0	0.0	
100	PI2 BPSK	1	271	17.56	17.61	17.65			
100	PI2 BPSK	135	0	17.58	17.63	17.68	19.0	0.0	
100	PI2 BPSK	135	69	17.64	17.69	17.74	19.0	0.0	
100	PI2 BPSK	135	138	17.39	17.44	17.49	19.0	0.0	
100	PI2 BPSK	270	0	17.51	17.56	17.61			
100	QPSK	1	1	17.29	17.34	17.39			
100	QPSK	1	137	17.57	17.62	17.67	19.0	0.0	
100	QPSK	1	271	17.45	17.50	17.55			
100	QPSK	135	0	17.47	17.52	17.57			
100	QPSK	135	69	17.55	17.60	17.65	19.0	0.0	
100	QPSK	135	138	17.38	17.43	17.48	19.0	0.0	
100	QPSK	270	0	17.50	17.55	17.60			
100	16QAM	1	1	17.45	17.50	17.55			
100	16QAM	1	1	17.48	17.53	17.58	19.0	0.0	
100	256QAM	1	1	16.23	17.2	17.5			
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.40	17.45	17.50	19.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.36	17.41	17.46	19.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.44	17.52	17.47	19.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.46	17.53	17.37	19.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.34	17.33	17.33	19.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.33	17.44	17.23	19.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.46	17.41	17.28	19.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.51	17.48	17.35	19.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.37	17.47	17.44	19.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.42	17.45	17.27	19.0	0.0	



Par270 n78_Ant 10									
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)									
100	PI2 BPSK	1	1	12.04	3750				
100	PI2 BPSK	1	137	12.13			13.5	0.0	
100	PI2 BPSK	1	271	11.96					
100	PI2 BPSK	135	0	11.96			13.5	0.0	
100	PI2 BPSK	135	69	12.03			13.5	0.0	
100	PI2 BPSK	135	138	12.10			13.5	0.0	
100	PI2 BPSK	270	0	12.01					
100	QPSK	1	1	12.14					
100	QPSK	1	137	11.93			13.5	0.0	
100	QPSK	1	271	11.95					
100	QPSK	135	0	11.98					
100	QPSK	135	69	12.06			13.5	0.0	
100	QPSK	135	138	11.97			13.5	0.0	
100	QPSK	270	0	12.03			13.5	0.0	
100	16QAM	1	1	11.89			13.5	0.0	
100	64QAM	1	1	12.05			13.5	0.0	
100	256QAM	1	1	12.05			13.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	11.96	12.01	11.89	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.86	12.06	11.95	13.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.05	12.01	11.93	13.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.87	11.98	12.08	13.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.95	11.99	11.94	13.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	12.20	11.90	11.84	13.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.05	11.97	12.05	13.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.98	12.06	11.93	13.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.88	12.06	12.06	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.91	12.03	12.07	13.5	0.0	

Par270 n78_Ant 10_HPUE									
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)									
100	PI2 BPSK	1	1	12.04	3750				
100	PI2 BPSK	1	137	12.13			13.5	0.0	
100	PI2 BPSK	1	271	11.96					
100	PI2 BPSK	135	0	11.96			13.5	0.0	
100	PI2 BPSK	135	69	12.03			13.5	0.0	
100	PI2 BPSK	135	138	12.10			13.5	0.0	
100	PI2 BPSK	270	0	12.01					
100	QPSK	1	1	12.14					
100	QPSK	1	137	11.93			13.5	0.0	
100	QPSK	1	271	11.95					
100	QPSK	135	0	11.98					
100	QPSK	135	69	12.06			13.5	0.0	
100	QPSK	135	138	11.97			13.5	0.0	
100	QPSK	270	0	12.03			13.5	0.0	
100	16QAM	1	1	11.89			13.5	0.0	
100	64QAM	1	1	12.05			13.5	0.0	
100	256QAM	1	1	12.05			13.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	11.96	12.01	11.89	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.86	12.06	11.95	13.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.05	12.01	11.93	13.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.87	11.98	12.08	13.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.95	11.99	11.94	13.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	12.20	11.90	11.84	13.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.05	11.97	12.05	13.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.98	12.06	11.93	13.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.88	12.06	12.06	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.91	12.03	12.07	13.5	0.0	



Part27Q n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	12.12	3499.98		
100	PI2 BPSK	1	137	12.11		13.5	0.0
100	PI2 BPSK	1	271	12.04			
100	PI2 BPSK	135	0	12.17		13.5	0.0
100	PI2 BPSK	135	69	12.10		13.5	0.0
100	PI2 BPSK	135	138	11.98		13.5	0.0
100	PI2 BPSK	270	0	11.97			
100	QPSK	1	1	12.19			
100	QPSK	1	137	12.11		13.5	0.0
100	QPSK	1	271	12.08			
100	QPSK	135	0	12.08			
100	QPSK	135	69	12.13		13.5	0.0
100	QPSK	135	138	12.01		13.5	0.0
100	QPSK	270	0	12.11		13.5	0.0
100	16QAM	1	1	12.09		13.5	0.0
100	16QAM	1	1	12.02		13.5	0.0
100	256QAM	1	1	11.99		13.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	11.99	12.00	12.01	11.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	12.01	12.11	12.10	13.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	12.06	12.08	11.97	13.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	12.00	12.14	12.08	13.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.97	12.00	12.00	13.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	11.96	12.06	11.98	13.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	11.96	12.06	11.98	13.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	12.00	12.11	11.99	13.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	12.07	12.02	11.96	13.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	11.90	11.90	11.92	13.5

Part27Q n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	12.12	3499.98		
100	PI2 BPSK	1	137	12.11		13.5	0.0
100	PI2 BPSK	1	271	12.04			
100	PI2 BPSK	135	0	12.17		13.5	0.0
100	PI2 BPSK	135	69	12.10		13.5	0.0
100	PI2 BPSK	135	138	11.98		13.5	0.0
100	PI2 BPSK	270	0	11.97			
100	QPSK	1	1	12.19			
100	QPSK	1	137	12.11		13.5	0.0
100	QPSK	1	271	12.08			
100	QPSK	135	0	12.08			
100	QPSK	135	69	12.13		13.5	0.0
100	QPSK	135	138	12.01		13.5	0.0
100	QPSK	270	0	12.11		13.5	0.0
100	16QAM	1	1	12.09		13.5	0.0
100	16QAM	1	1	12.02		13.5	0.0
100	256QAM	1	1	11.99		13.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	11.99	12.00	12.01	11.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	12.01	12.11	12.10	13.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	12.06	12.08	11.97	13.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	12.00	12.14	12.08	13.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.97	12.00	12.00	13.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	11.96	12.06	11.98	13.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	11.96	12.06	11.98	13.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	12.00	12.11	11.99	13.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	12.07	12.02	11.96	13.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	11.90	11.90	11.92	13.5



Reduced Power Mode for DSI3 + Sim

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)				1660	1660	1660			
20	PI2 BPSK	1	1	16.68	16.75	16.69			
20	PI2 BPSK	1	53	16.65	16.77	16.67	18.0	0.0	
20	PI2 BPSK	1	104	16.75	16.83	16.67			
20	PI2 BPSK	50	0	16.73	16.76	16.66	18.0	0.0	
20	PI2 BPSK	50	28	16.75	16.80	16.60	18.0	0.0	
20	PI2 BPSK	50	56	16.68	16.77	16.57			
20	PI2 BPSK	100	0	16.84	16.81	16.81	18.0	0.0	
20	QPSK	1	1	16.77	16.88	16.72			
20	QPSK	1	53	16.67	16.76	16.65	18.0	0.0	
20	QPSK	1	104	16.71	16.73	16.68			
20	QPSK	50	0	16.65	16.83	16.83	18.0	0.0	
20	QPSK	50	28	16.73	16.84	16.67	18.0	0.0	
20	QPSK	50	56	16.68	16.80	16.63	18.0	0.0	
20	QPSK	100	0	16.74	16.75	16.64			
20	16QAM	1	1	16.66	16.74	16.66	18.0	0.0	
20	16QAM	1	1	16.75	16.77	16.59	18.0	0.0	
20	256QAM	1	1	16.71	16.78	16.65	18.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1671.5	1660	1662.5			
15	QPSK	1	1	16.73	16.86	16.60	18.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1665	1660	1665			
10	QPSK	1	1	16.68	16.79	16.68	18.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1662.5	1660	1667.5			
5	QPSK	1	1	16.64	16.81	16.62	18.0	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)				1660	1660	1660			
20	PI2 BPSK	1	1	14.24	14.21	14.18			
20	PI2 BPSK	1	53	14.18	14.31	14.30	16.0	0.0	
20	PI2 BPSK	1	104	14.32	14.21	14.17			
20	PI2 BPSK	50	0	14.31	14.24	14.29	16.0	0.0	
20	PI2 BPSK	50	28	14.28	14.34	14.17	16.0	0.0	
20	PI2 BPSK	50	56	14.20	14.24	14.25			
20	PI2 BPSK	100	0	14.27	14.22	14.17	16.0	0.0	
20	QPSK	1	1	14.33	14.35	14.32			
20	QPSK	1	53	14.27	14.33	14.22	16.0	0.0	
20	QPSK	1	104	14.18	14.29	14.31			
20	QPSK	50	0	14.23	14.31	14.23	16.0	0.0	
20	QPSK	50	28	14.31	14.33	14.26	16.0	0.0	
20	QPSK	50	56	14.30	14.29	14.22	16.0	0.0	
20	QPSK	100	0	14.24	14.27	14.22			
20	16QAM	1	1	14.26	14.27	14.31	16.0	0.0	
20	16QAM	1	1	14.27	14.27	14.25	16.0	0.0	
20	256QAM	1	1	14.28	14.33	14.28	16.0	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1671.5	1660	1662.5			
15	QPSK	1	1	14.28	14.29	14.20	16.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1665	1660	1665			
10	QPSK	1	1	14.29	14.32	14.19	16.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1662.5	1660	1667.5			
5	QPSK	1	1	14.20	14.33	14.25	16.0	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				166300	167300	167800			
Frequency (MHz)				834	835.5	835			
20	PI2 BPSK	1	1	22.89	22.96	22.76			
20	PI2 BPSK	1	53	22.88	22.84	22.79	24.0	0.0	
20	PI2 BPSK	1	104	22.81	22.90	22.79			
20	PI2 BPSK	50	0	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.83	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.78			
20	PI2 BPSK	100	0	22.76	22.81	22.72	24.0	0.0	
20	QPSK	1	1	22.92	22.97	22.80			
20	QPSK	1	53	22.81	22.78	22.73	24.0	0.0	
20	QPSK	1	104	22.83	22.79	22.72			
20	QPSK	50	0	22.76	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.78	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.68			
20	16QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	16QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				166300	167300	167800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	835.5	831.5			
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				165800	167300	168000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	835.5	844			
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	835.5	846.5			
5	QPSK	1	1	22.84	22.83	22.78	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	PI2 BPSK	1	1	22.70	22.72	22.63				
20	PI2 BPSK	1	53	22.67	22.75	22.68	24.0	0.0		
20	PI2 BPSK	1	104	22.70	22.73	22.63				
20	PI2 BPSK	50	0	22.50	22.71	22.52	24.0	0.0		
20	PI2 BPSK	50	26	22.67	22.75	22.60	24.0	0.0		
20	PI2 BPSK	50	56	22.56	22.71	22.58				
20	PI2 BPSK	100	0	22.56	22.64	22.55	24.0	0.0		
20	QPSK	1	1	22.73	22.76	22.65				
20	QPSK	1	53	22.61	22.66	22.50	24.0	0.0		
20	QPSK	1	104	22.57	22.68	22.50				
20	QPSK	50	0	22.61	22.66	22.52	24.0	0.0		
20	QPSK	50	26	22.62	22.72	22.57	24.0	0.0		
20	QPSK	50	56	22.61	22.67	22.50	24.0	0.0		
20	QPSK	100	0	22.60	22.64	22.49				
20	64QAM	1	1	22.63	22.61	22.65	24.0	0.0		
20	64QAM	1	1	21.34	21.45	21.37	22.5	1.5		
20	256QAM	1	1	19.33	19.36	19.28	20.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.66	22.73	22.56	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.63	22.73	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.63	22.72	22.49	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	17.91	18.07	18.00				
40	PI2 BPSK	1	108	17.89	18.05	18.00	19.0	0.0		
40	PI2 BPSK	1	214	17.97	17.98	17.92				
40	PI2 BPSK	108	0	17.88	17.94	17.96	19.0	0.0		
40	PI2 BPSK	108	54	18.00	18.05	18.00	19.0	0.0		
40	PI2 BPSK	108	108	17.98	17.96	18.00				
40	PI2 BPSK	216	0	17.89	18.00	17.95	19.0	0.0		
40	QPSK	1	1	18.03	18.09	18.05				
40	QPSK	1	108	17.97	17.96	18.02	19.0	0.0		
40	QPSK	1	214	18.02	17.92	18.01				
40	QPSK	108	0	17.84	17.89	17.89	19.0	0.0		
40	QPSK	108	54	17.93	18.03	18.02	19.0	0.0		
40	QPSK	108	108	17.95	18.06	17.92	19.0	0.0		
40	QPSK	216	0	17.83	18.02	17.84				
40	64QAM	1	1	17.84	18.05	17.85	19.0	0.0		
40	64QAM	1	1	17.85	18.07	17.84	19.0	0.0		
40	256QAM	1	1	17.99	18.00	17.91	19.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	17.83	18.03	17.83	19.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	17.87	17.84	18.01	19.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.01	18.00	18.01	19.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.91	18.03	18.02	19.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	17.99	17.94	18.01	19.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.01	18.06	17.92	19.0	0.0		

n7_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)										
40	PI2 BPSK	1	1	18.90	18.93	18.86				
40	PI2 BPSK	1	108	18.82	18.95	18.91	20.0	0.0		
40	PI2 BPSK	1	214	18.87	18.89	18.97				
40	PI2 BPSK	108	0	18.90	18.95	18.93	20.0	0.0		
40	PI2 BPSK	108	54	18.78	18.98	18.88	20.0	0.0		
40	PI2 BPSK	108	108	18.81	18.91	18.84				
40	PI2 BPSK	216	0	18.89	18.92	18.97	20.0	0.0		
40	QPSK	1	1	19.03	19.02	19.00				
40	QPSK	1	108	18.80	18.98	18.90	20.0	0.0		
40	QPSK	1	214	18.82	18.93	18.99				
40	QPSK	108	0	18.81	18.91	18.85	20.0	0.0		
40	QPSK	108	54	18.93	18.99	18.95	20.0	0.0		
40	QPSK	108	108	18.81	18.98	18.92	20.0	0.0		
40	QPSK	216	0	18.92	18.96	18.93				
40	64QAM	1	1	18.79	18.99	18.92	20.0	0.0		
40	64QAM	1	1	18.79	18.98	18.90	20.0	0.0		
40	256QAM	1	1	18.85	18.97	18.92	20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.81	18.87	18.91	20.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	18.83	18.93	18.97	20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.89	18.92	18.87	20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.82	18.83	18.83	20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.83	19.01	18.85	20.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.83	18.89	18.90	20.0	0.0		



n12_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)										
15	PI2 BPSK	1	1	22.89	22.90	22.87				
15	PI2 BPSK	1	40	22.87	22.83	22.77	24.0	0.0		
15	PI2 BPSK	1	77	22.78	22.87	22.84				
15	PI2 BPSK	36	0	22.80	22.80	22.69	24.0	0.0		
15	PI2 BPSK	36	22	22.81	22.88	22.78	24.0	0.0		
15	PI2 BPSK	36	43	22.71	22.81	22.75				
15	PI2 BPSK	12	0	22.74	22.85	22.71	24.0	0.0		
15	QPSK	1	1	22.85	22.82	22.82				
15	QPSK	1	40	22.71	22.86	22.72	24.0	0.0		
15	QPSK	1	77	22.74	22.77	22.70				
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0		
15	QPSK	36	22	22.71	22.83	22.73	24.0	0.0		
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0		
15	QPSK	75	0	22.76	22.77	22.76				
15	16QAM	1	1	22.78	22.83	22.76	24.0	0.0		
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5		
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0		

n12_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)										
15	PI2 BPSK	1	1	23.31	23.36	23.34				
15	PI2 BPSK	1	40	23.23	23.31	23.23	24.0	0.0		
15	PI2 BPSK	1	77	23.26	23.33	23.31				
15	PI2 BPSK	36	0	23.20	23.30	23.23	24.0	0.0		
15	PI2 BPSK	36	22	23.22	23.33	23.25	24.0	0.0		
15	PI2 BPSK	36	43	23.11	23.24	23.17				
15	PI2 BPSK	12	0	23.21	23.30	23.17	24.0	0.0		
15	QPSK	1	1	23.27	23.37	23.30				
15	QPSK	1	40	23.16	23.22	23.19	24.0	0.0		
15	QPSK	1	77	23.11	23.27	23.18				
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0		
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0		
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0		
15	QPSK	75	0	23.12	23.29	23.23				
15	16QAM	1	1	23.19	23.32	23.15	24.0	0.0		
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.5		
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.18	23.32	23.23	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0		

n14_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)										
10	PI2 BPSK	1	1		22.92					
10	PI2 BPSK	1	26		22.91		24.0	0.0		
10	PI2 BPSK	1	55		22.89					
10	PI2 BPSK	25	0		22.82		24.0	0.0		
10	PI2 BPSK	25	14		22.81		24.0	0.0		
10	PI2 BPSK	25	27		22.82					
10	PI2 BPSK	50	0		22.80		24.0	0.0		
10	QPSK	1	1		22.83					
10	QPSK	1	26		22.84		24.0	0.0		
10	QPSK	1	50		22.89					
10	QPSK	25	0		22.83		24.0	0.0		
10	QPSK	25	14		22.85		24.0	0.0		
10	QPSK	25	27		22.80					
10	QPSK	50	0		22.84		24.0	0.0		
10	16QAM	1	1		22.86		24.0	0.0		
10	64QAM	1	1		22.22		23.0	1.0		
10	256QAM	1	1		20.05		21.0	3.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0		



n14_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)										
10	PI2 BPSK	1	1	21.44	21.54	21.64	23.0	0.0		
10	PI2 BPSK	1	26	21.54	21.64	21.74	23.0	0.0		
10	PI2 BPSK	1	50	21.64	21.74	21.84	23.0	0.0		
10	PI2 BPSK	25	0	21.50	21.49	21.48	23.0	0.0		
10	PI2 BPSK	25	14	21.49	21.48	21.47	23.0	0.0		
10	PI2 BPSK	25	27	21.48	21.47	21.46	23.0	0.0		
10	PI2 BPSK	50	0	21.45	21.58	21.71	23.0	0.0		
10	QPSK	1	1	21.58	21.50	21.42	23.0	0.0		
10	QPSK	1	26	21.50	21.42	21.34	23.0	0.0		
10	QPSK	1	50	21.42	21.34	21.26	23.0	0.0		
10	QPSK	25	0	21.47	21.54	21.61	23.0	0.0		
10	QPSK	25	14	21.54	21.61	21.68	23.0	0.0		
10	QPSK	25	27	21.61	21.68	21.74	23.0	0.0		
10	QPSK	50	0	21.53	21.65	21.77	23.0	0.0		
10	16QAM	1	1	21.45	21.44	21.43	23.0	0.0		
10	64QAM	1	1	21.44	21.44	21.44	23.0	0.0		
10	256QAM	1	1	19.89	19.89	19.89	21.0	2.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	21.48	21.54	21.61	23.0	0.0		

n25_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	16.75	16.91	16.76	18.0	0.0		
40	PI2 BPSK	1	108	16.79	16.88	16.68	18.0	0.0		
40	PI2 BPSK	1	214	16.66	16.73	16.72	18.0	0.0		
40	PI2 BPSK	108	0	16.64	16.83	16.64	18.0	0.0		
40	PI2 BPSK	108	54	16.74	16.88	16.75	18.0	0.0		
40	PI2 BPSK	108	108	16.82	16.63	16.73	18.0	0.0		
40	PI2 BPSK	216	0	16.71	16.89	16.70	18.0	0.0		
40	QPSK	1	1	16.85	16.59	16.52	18.0	0.0		
40	QPSK	1	108	16.81	16.50	16.70	18.0	0.0		
40	QPSK	1	214	16.74	16.79	16.75	18.0	0.0		
40	QPSK	108	0	16.73	16.86	16.68	18.0	0.0		
40	QPSK	108	54	16.77	16.54	16.75	18.0	0.0		
40	QPSK	108	108	16.70	16.69	16.74	18.0	0.0		
40	QPSK	216	0	16.76	16.53	16.75	18.0	0.0		
40	16QAM	1	1	16.75	16.95	16.72	18.0	0.0		
40	64QAM	1	1	16.80	16.88	16.68	18.0	0.0		
40	256QAM	1	1	16.69	16.72	16.69	18.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	16.77	16.93	16.69	18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.73	16.90	16.73	18.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	16.70	16.82	16.69	18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.73	16.50	16.67	18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.74	16.84	16.75	18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.71	16.68	16.74	18.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	16.73	16.84	16.76	18.0	0.0		

n25_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	14.23	14.25	14.30	16.0	0.0		
40	PI2 BPSK	1	108	14.33	14.30	14.25	16.0	0.0		
40	PI2 BPSK	1	214	14.32	14.24	14.27	16.0	0.0		
40	PI2 BPSK	108	0	14.35	14.33	14.29	16.0	0.0		
40	PI2 BPSK	108	54	14.25	14.35	14.23	16.0	0.0		
40	PI2 BPSK	108	108	14.27	14.25	14.29	16.0	0.0		
40	PI2 BPSK	216	0	14.35	14.27	14.31	16.0	0.0		
40	QPSK	1	1	14.35	14.39	14.33	16.0	0.0		
40	QPSK	1	108	14.32	14.32	14.22	16.0	0.0		
40	QPSK	1	214	14.23	14.25	14.23	16.0	0.0		
40	QPSK	108	0	14.27	14.30	14.21	16.0	0.0		
40	QPSK	108	54	14.32	14.35	14.25	16.0	0.0		
40	QPSK	108	108	14.30	14.29	14.25	16.0	0.0		
40	QPSK	216	0	14.23	14.32	14.30	16.0	0.0		
40	16QAM	1	1	14.25	14.37	14.26	16.0	0.0		
40	64QAM	1	1	14.35	14.37	14.19	16.0	0.0		
40	256QAM	1	1	14.28	14.37	14.28	16.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	14.35	14.25	14.30	16.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.32	14.30	14.22	16.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	14.33	14.25	14.20	16.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.30	14.33	14.20	16.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.29	14.25	14.21	16.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	14.23	14.34	14.22	16.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	14.27	14.32	14.30	16.0	0.0		



n26_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)	MSR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.83	22.87			
20	PI2 BPSK	1	104	22.86	22.78	22.88			
20	PI2 BPSK	50	0	22.85	22.85	22.85	24.0	0.0	
20	PI2 BPSK	50	26	22.92	22.90	22.84	24.0	0.0	
20	PI2 BPSK	50	56	22.87	22.86	22.86	24.0	0.0	
20	PI2 BPSK	100	0	22.86	22.86	22.81			
20	QPSK	1	1	22.95	22.95	23.02	24.0	0.0	
20	QPSK	1	53	22.96	22.81	22.86			
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	26	22.87	22.85	22.88	24.0	0.0	
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.86	22.78	22.83			
20	16QAM	1	1	22.96	22.85	22.85	24.0	0.0	
20	16QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.92	22.86	22.89	24.0	0.0	

n26_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)	MSR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.86	22.88	22.87	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.78	22.80			
20	PI2 BPSK	1	104	22.90	22.78	22.81			
20	PI2 BPSK	50	0	22.85	22.87	22.85	24.0	0.0	
20	PI2 BPSK	50	26	22.80	22.85	22.82	24.0	0.0	
20	PI2 BPSK	50	56	22.85	22.80	22.81	24.0	0.0	
20	PI2 BPSK	100	0	22.80	22.82	22.85			
20	QPSK	1	1	22.95	22.97	23.00	24.0	0.0	
20	QPSK	1	53	22.95	22.92	22.92			
20	QPSK	1	104	22.94	22.87	22.83			
20	QPSK	50	0	22.85	22.81	22.88	24.0	0.0	
20	QPSK	50	26	22.90	22.85	22.95	24.0	0.0	
20	QPSK	50	56	22.83	22.87	22.81	24.0	0.0	
20	QPSK	100	0	22.85	22.84	22.86			
20	16QAM	1	1	22.93	22.87	22.80	24.0	0.0	
20	16QAM	1	1	21.56	21.56	21.63	23.0	1.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.88	22.86	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.85	22.87	22.80	24.0	0.0	



n30_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				460000				
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	16.59			18.5	0.0
10	PI2 BPSK	1	26	16.63				
10	PI2 BPSK	1	50	16.62				
10	PI2 BPSK	25	0	16.57			18.5	0.0
10	PI2 BPSK	25	14	16.54				
10	PI2 BPSK	25	27	16.58			18.5	0.0
10	PI2 BPSK	50	0	16.54				
10	QPSK	1	1	16.66				
10	QPSK	1	26	16.56			18.5	0.0
10	QPSK	1	50	16.55				
10	QPSK	25	0	16.54			18.5	0.0
10	QPSK	25	14	16.65				
10	QPSK	25	27	16.52			18.5	0.0
10	QPSK	50	0	16.57				
10	16QAM	1	1	16.65			18.5	0.0
10	16QAM	1	1	16.65			18.5	0.0
10	256QAM	1	1	16.61			18.5	0.0
Channel				481500		482000		
Frequency (MHz)				2307.5		2312.5		
5	QPSK	1	1	16.64	16.61	16.63	18.5	0.0

n30_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)	MFR (dB)
Channel				460000				
Frequency (MHz)				2310				
10	PI2 BPSK	1	1	20.39			21.5	0.0
10	PI2 BPSK	1	26	20.43				
10	PI2 BPSK	1	50	20.49				
10	PI2 BPSK	25	0	20.46			21.5	0.0
10	PI2 BPSK	25	14	20.41				
10	PI2 BPSK	25	27	20.45			21.5	0.0
10	PI2 BPSK	50	0	20.35				
10	QPSK	1	1	20.50				
10	QPSK	1	26	20.48			21.5	0.0
10	QPSK	1	50	20.40				
10	QPSK	25	0	20.35			21.5	0.0
10	QPSK	25	14	20.47				
10	QPSK	25	27	20.38			21.5	0.0
10	QPSK	50	0	20.39				
10	16QAM	1	1	20.44			21.5	0.0
10	16QAM	1	1	20.43			21.5	0.0
10	256QAM	1	1	20.25			21.0	0.5
Channel				481500		482000		
Frequency (MHz)				2307.5		2312.5		
5	QPSK	1	1	20.46	20.38	20.45	21.5	0.0



n66_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	16.96	16.91	16.92				
40	PI2 BPSK	1	108	16.91	16.89	16.84	18.0	0.0		
40	PI2 BPSK	1	214	16.88	16.88	16.71				
40	PI2 BPSK	108	0	16.87	16.89	16.80	18.0	0.0		
40	PI2 BPSK	108	54	16.91	16.89	16.82	18.0	0.0		
40	PI2 BPSK	108	108	16.84	16.70	16.62	18.0	0.0		
40	PI2 BPSK	216	0	16.91	16.97	16.84				
40	QPSK	1	1	17.01	17.02	16.95				
40	QPSK	1	108	16.92	16.95	16.85	18.0	0.0		
40	QPSK	1	214	16.93	16.90	16.78	18.0	0.0		
40	QPSK	108	0	16.88	16.90	16.89	18.0	0.0		
40	QPSK	108	54	16.97	16.99	16.93	18.0	0.0		
40	QPSK	108	108	16.92	16.80	16.68	18.0	0.0		
40	QPSK	216	0	16.97	16.98	16.86				
40	16QAM	1	1	17.01	16.97	16.89	18.0	0.0		
40	64QAM	1	1	16.94	16.93	16.87	18.0	0.0		
40	256QAM	1	1	16.93	16.94	16.92	18.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	16.95	16.90	16.89	18.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.89	16.84	16.77	18.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	17.22.5	17.45	17.67.5	18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.87	16.85	16.72	18.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.17.5	17.45	17.72.5	18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.86	16.86	16.73	18.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	16.92	16.84	16.70	18.0	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)										
40	PI2 BPSK	1	1	15.28	15.27	15.25				
40	PI2 BPSK	1	108	15.20	15.24	15.15	16.0	0.0		
40	PI2 BPSK	1	214	15.32	15.28	15.19				
40	PI2 BPSK	108	0	15.29	15.25	15.20	16.0	0.0		
40	PI2 BPSK	108	54	15.28	15.25	15.25	16.0	0.0		
40	PI2 BPSK	108	108	15.19	15.34	15.28	16.0	0.0		
40	PI2 BPSK	216	0	15.18	15.21	15.17				
40	QPSK	1	1	15.33	15.35	15.30				
40	QPSK	1	108	15.24	15.22	15.27	16.0	0.0		
40	QPSK	1	214	15.29	15.21	15.17				
40	QPSK	108	0	15.22	15.23	15.18	16.0	0.0		
40	QPSK	108	54	15.25	15.30	15.24	16.0	0.0		
40	QPSK	108	108	15.25	15.23	15.20	16.0	0.0		
40	QPSK	216	0	15.27	15.28	15.27				
40	16QAM	1	1	15.26	15.23	15.19	16.0	0.0		
40	64QAM	1	1	15.23	15.27	15.26	16.0	0.0		
40	256QAM	1	1	15.18	15.24	15.19	16.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	15.30	15.21	15.20	16.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.19	15.20	15.25	16.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	17.22.5	17.45	17.67.5	18.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.23	15.33	15.17	16.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.23	15.33	15.15	16.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.19	15.31	15.22	16.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	15.27	15.22	15.54	16.0	0.0		

n70_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)										
15	PI2 BPSK	1	1	18.26						
15	PI2 BPSK	1	40	18.20	18.17		19.5	0.0		
15	PI2 BPSK	1	77	18.02						
15	PI2 BPSK	36	0	18.10			19.5	0.0		
15	PI2 BPSK	36	22	18.24			19.5	0.0		
15	PI2 BPSK	36	43	17.99			19.5	0.0		
15	PI2 BPSK	75	0	18.13						
15	QPSK	1	1	18.32						
15	QPSK	1	40	18.21			19.5	0.0		
15	QPSK	1	77	18.09						
15	QPSK	36	0	18.17			19.5	0.0		
15	QPSK	36	22	18.31			19.5	0.0		
15	QPSK	36	43	18.08			19.5	0.0		
15	QPSK	75	0	18.22						
15	16QAM	1	1	18.28			19.5	0.0		
15	64QAM	1	1	18.25			19.5	0.0		
15	256QAM	1	1	18.21			19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.23	18.31	18.28	19.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.22	18.24	18.27	19.5	0.0		



n70_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)									
15	PI2 BPSK	1	1	15.23			16.0	0.0	
15	PI2 BPSK	1	40	15.14					
15	PI2 BPSK	1	77	15.22					
15	PI2 BPSK	36	0	15.14			16.0	0.0	
15	PI2 BPSK	36	22	15.15			16.0	0.0	
15	PI2 BPSK	36	43	15.16			16.0	0.0	
15	PI2 BPSK	12	0	15.20					
15	QPSK	1	1	15.22			16.0	0.0	
15	QPSK	1	40	15.20					
15	QPSK	1	77	15.26					
15	QPSK	36	0	15.23			16.0	0.0	
15	QPSK	36	22	15.25			16.0	0.0	
15	QPSK	36	43	15.25			16.0	0.0	
15	QPSK	75	0	15.18			16.0	0.0	
15	16QAM	1	1	15.15			16.0	0.0	
15	64QAM	1	1	15.25			16.0	0.0	
15	256QAM	1	1	15.25			16.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	15.11	15.25	15.12	16.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	15.00	15.16	15.05	16.0	0.0	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.09	23.03			
30	PI2 BPSK	1	80	23.01	23.04	22.92	24.0	0.0	
30	PI2 BPSK	1	158	23.00	23.08	23.01			
30	PI2 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	PI2 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	PI2 BPSK	80	80	22.91	23.02	22.92	24.0	0.0	
30	PI2 BPSK	160	0	22.95	22.99	22.98			
30	QPSK	1	1	23.02	23.10	23.01			
30	QPSK	1	80	22.94	22.98	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97			
30	QPSK	80	0	22.89	22.93	22.91	24.0	0.0	
30	QPSK	80	40	22.91	22.95	22.93	24.0	0.0	
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.95	22.96			
30	16QAM	1	1	22.90	22.93	22.93	24.0	0.0	
30	64QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.83	22.97	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.80	22.89	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.95	22.92	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.13	23.13			
30	PI2 BPSK	1	80	23.15	23.16	23.10	24.0	0.0	
30	PI2 BPSK	1	158	23.18	23.24	23.20			
30	PI2 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	PI2 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	PI2 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	PI2 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09			
30	QPSK	80	0	23.09	23.09	23.11	24.0	0.0	
30	QPSK	80	40	23.13	23.15	23.17	24.0	0.0	
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06			
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0	
30	64QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_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)				2996.02	2995	2994.98				
40	Pi2 BPSK	1	1	17.19	17.84	17.80				
40	Pi2 BPSK	1	53	17.75	17.77	17.72	19.5	0.0		
40	Pi2 BPSK	1	104	17.77	17.81	17.74				
40	Pi2 BPSK	50	0	17.75	17.85	17.81	19.5	0.0		
40	Pi2 BPSK	50	26	17.76	17.87	17.81	19.5	0.0		
40	Pi2 BPSK	50	56	17.74	17.83	17.85				
40	Pi2 BPSK	100	0	17.82	17.86	17.80	19.5	0.0		
40	QPSK	1	1	17.53	17.82	17.86				
40	QPSK	1	53	17.75	17.94	17.83	19.5	0.0		
40	QPSK	1	104	17.71	17.84	17.80				
40	QPSK	50	0	17.74	17.77	17.82				
40	QPSK	50	26	17.84	17.86	17.83	19.5	0.0		
40	QPSK	50	56	17.78	17.82	17.75				
40	QPSK	100	0	17.74	17.86	17.85	19.5	0.0		
40	16QAM	1	1	17.78	17.86	17.72	19.5	0.0		
40	16QAM	1	1	17.86	17.83	17.76	19.5	0.0		
40	256QAM	1	1	17.80	17.87	17.82	19.5	0.0		
Channel										
Frequency (MHz)				5170.02	518000	509998	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	17.81	17.89	17.74	19.5	0.0		
Channel										
Frequency (MHz)				518000	519000	520000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	17.80	17.80	17.78	19.5	0.0		
Channel										
Frequency (MHz)				5257.51	2995	2952.48	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	17.78	17.78	17.81	19.5	0.0		
Channel										
Frequency (MHz)				518004	518000	522996	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	17.81	17.80	17.77	19.5	0.0		

n38_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)				2996.02	2995	2994.98				
40	Pi2 BPSK	1	1	18.85	19.01	18.89				
40	Pi2 BPSK	1	53	18.89	18.94	18.95	20.0	0.0		
40	Pi2 BPSK	1	104	18.95	18.99	18.91				
40	Pi2 BPSK	50	0	18.93	18.94	18.98	20.0	0.0		
40	Pi2 BPSK	50	26	18.97	18.94	18.98	20.0	0.0		
40	Pi2 BPSK	50	56	18.99	19.00	19.01				
40	Pi2 BPSK	100	0	18.94	18.99	18.97	20.0	0.0		
40	QPSK	1	1	18.90	18.95	18.92				
40	QPSK	1	53	18.96	18.96	18.91	20.0	0.0		
40	QPSK	1	104	18.96	18.98	18.98				
40	QPSK	50	0	18.85	18.94	18.94				
40	QPSK	50	26	18.86	18.99	18.96	20.0	0.0		
40	QPSK	50	56	18.88	18.95	18.89				
40	QPSK	100	0	18.90	18.95	18.93	20.0	0.0		
40	16QAM	1	1	18.93	18.93	18.96	20.0	0.0		
40	16QAM	1	1	18.97	18.94	18.97	20.0	0.0		
40	256QAM	1	1	18.44	18.55	18.43	19.5	0.5		
Channel										
Frequency (MHz)				5170.02	518000	509998	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	18.89	19.04	18.88	20.0	0.0		
Channel										
Frequency (MHz)				518000	519000	520000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	18.95	18.98	18.96	20.0	0.0		
Channel										
Frequency (MHz)				2977.51	2995	2952.48	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	18.97	19.00	18.93	20.0	0.0		
Channel										
Frequency (MHz)				518004	518000	522996	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	18.93	18.96	18.91	20.0	0.0		

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)				2946.01	2952.99	2943				
100	Pi2 BPSK	1	1	17.79	17.82	17.89				
100	Pi2 BPSK	1	137	17.81	17.83	17.75	19.5	0.0		
100	Pi2 BPSK	1	271	17.79	17.85	17.78				
100	Pi2 BPSK	135	0	17.73	17.80	17.86	19.5	0.0		
100	Pi2 BPSK	135	69	17.83	17.82	17.81	19.5	0.0		
100	Pi2 BPSK	135	138	17.85	17.81	17.81				
100	Pi2 BPSK	270	0	17.77	17.83	17.81	19.5	0.0		
100	QPSK	1	1	17.80	17.85	17.90				
100	QPSK	1	137	17.81	17.84	17.87	19.5	0.0		
100	QPSK	1	271	17.78	17.81	17.77				
100	QPSK	135	0	17.81	17.80	17.78				
100	QPSK	135	69	17.86	17.83	17.86	19.5	0.0		
100	QPSK	135	138	17.84	17.80	17.78				
100	QPSK	270	0	17.74	17.80	17.76	19.5	0.0		
100	16QAM	1	1	17.85	17.82	17.88	19.5	0.0		
100	16QAM	1	1	17.79	17.86	17.83	19.5	0.0		
100	256QAM	1	1	17.73	17.85	17.84	19.5	0.0		
Channel										
Frequency (MHz)				506000	518898	509998	Tune-up limit (dBm)	MPR (dB)		
90	QPSK	1	1	17.74	17.83	17.76	19.5	0.0		
Channel										
Frequency (MHz)				507204	518898	529998	Tune-up limit (dBm)	MPR (dB)		
80	QPSK	1	1	17.83	17.91	17.82	19.5	0.0		
Channel										
Frequency (MHz)				2931.01	2992.99	2965	Tune-up limit (dBm)	MPR (dB)		
70	QPSK	1	1	17.78	17.81	17.86	19.5	0.0		
Channel										
Frequency (MHz)				505000	518898	529998	Tune-up limit (dBm)	MPR (dB)		
60	QPSK	1	1	17.82	17.91	17.83	19.5	0.0		
Channel										
Frequency (MHz)				506004	518898	529998	Tune-up limit (dBm)	MPR (dB)		
50	QPSK	1	1	17.83	17.94	17.81	19.5	0.0		
Channel										
Frequency (MHz)				500002	518898	530000	Tune-up limit (dBm)	MPR (dB)		
40	QPSK	1	1	17.87	17.89	17.87	19.5	0.0		
Channel										
Frequency (MHz)				2959.02	2992.99	2965.98	Tune-up limit (dBm)	MPR (dB)		
30	QPSK	1	1	17.73	17.87	17.86	19.5	0.0		
Channel										
Frequency (MHz)				501204	518898	530000	Tune-up limit (dBm)	MPR (dB)		
20	QPSK	1	1	17.84	17.89	17.82	19.5	0.0		
Channel										
Frequency (MHz)				500700	518898	536498	Tune-up limit (dBm)	MPR (dB)		
15	QPSK	1	1	17.78	17.86	17.85	19.5	0.0		
Channel										
Frequency (MHz)				2951.01	2992.99	2965	Tune-up limit (dBm)	MPR (dB)		
10	QPSK	1	1	17.75	17.81	17.79	19.5	0.0		



n41_Ant 1_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	High Ch. Freq.		
Channel				509002	518998	528990		
Frequency (MHz)				2545.01	2592.99	2640		
100	PI2 BPSK	1	1	17.79	17.82	17.89		
100	PI2 BPSK	1	137	17.81	17.83	17.75	19.5	0.0
100	PI2 BPSK	1	271	17.79	17.85	17.78		
100	PI2 BPSK	135	0	17.73	17.80	17.88	19.5	0.0
100	PI2 BPSK	135	69	17.83	17.85	17.81	19.5	0.0
100	PI2 BPSK	135	138	17.85	17.81	17.81	19.5	0.0
100	PI2 BPSK	270	0	17.77	17.83	17.81		
100	QPSK	1	1	17.85	17.85	17.85		
100	QPSK	1	137	17.81	17.84	17.87	19.5	0.0
100	QPSK	1	271	17.76	17.81	17.77		
100	QPSK	135	0	17.81	17.90	17.78		
100	QPSK	135	69	17.85	17.85	17.85	19.5	0.0
100	QPSK	135	138	17.84	17.80	17.78		
100	QPSK	270	0	17.74	17.90	17.76	19.5	0.0
100	16QAM	1	1	17.85	17.82	17.88	19.5	0.0
100	64QAM	1	1	17.79	17.86	17.83	19.5	0.0
100	256QAM	1	1	17.73	17.89	17.84	19.5	0.0
Channel				508500	518998	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.74	17.83	17.73	19.5	0.0
Channel				507204	518998	528998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.83	17.81	17.82	19.5	0.0
Channel				506200	518998	529000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	17.78	17.81	17.86	19.5	0.0
Channel				505200	518998	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.82	17.91	17.83	19.5	0.0
Channel				504204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	17.83	17.84	17.81	19.5	0.0
Channel				503202	518998	536000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.87	17.89	17.87	19.5	0.0
Channel				502200	518998	535996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.73	17.87	17.86	19.5	0.0
Channel				501204	518998	535996		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.84	17.89	17.82	19.5	0.0
Channel				500700	518998	538498		
Frequency (MHz)				2501.5	2592.99	2684.48		
15	QPSK	1	1	17.78	17.86	17.85	19.5	0.0
Channel				500202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	17.75	17.81	17.79	19.5	0.0



n41_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2541.01	2592.99	2643		
100	PI2 BPSK	1	1	18.30	18.40	18.34		
100	PI2 BPSK	1	137	18.30	18.47	18.41	18.0	0.0
100	PI2 BPSK	1	271	18.40	18.49	18.43		
100	PI2 BPSK	135	0	18.34	18.44	18.35	18.0	0.0
100	PI2 BPSK	135	69	18.31	18.42	18.46	18.0	0.0
100	PI2 BPSK	135	138	18.35	18.43	18.38	18.0	0.0
100	PI2 BPSK	270	0	18.44	18.52	18.40	18.0	0.0
100	QPSK	1	1	18.40	18.53	18.45		
100	QPSK	1	137	18.38	18.43	18.38	18.0	0.0
100	QPSK	1	271	18.35	18.47	18.43		
100	QPSK	135	0	18.40	18.42	18.39		
100	QPSK	135	69	18.43	18.50	18.47	18.0	0.0
100	QPSK	135	138	18.30	18.41	18.46	18.0	0.0
100	QPSK	270	0	18.38	18.52	18.46	18.0	0.0
100	16QAM	1	1	18.37	18.38	18.46	18.0	0.0
100	64QAM	1	1	18.38	18.48	18.41	18.0	0.0
100	256QAM	1	1	18.38	18.48	18.39	18.0	0.0
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.31	18.42	18.43	18.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	18.41	18.42	18.35	18.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				18.30	18.44	18.42	18.0	0.0
70	QPSK	1	1	18.30	18.44	18.42	18.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				18.33	18.38	18.46	18.0	0.0
60	QPSK	1	1	18.33	18.38	18.46	18.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2629.99		
50	QPSK	1	1	18.33	18.38	18.44	18.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	18.40	18.41	18.42	18.0	0.0
Channel				502200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.44	18.41	18.35	18.0	0.0
Channel				2508.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				18.38	18.43	18.46	18.0	0.0
20	QPSK	1	1	18.38	18.43	18.46	18.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.05	2592.99	2682.98		
15	QPSK	1	1	18.44	18.42	18.40	18.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.34	18.51	18.33	18.0	0.0

n41_Ant 2_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2541.01	2592.99	2643		
100	PI2 BPSK	1	1	18.30	18.40	18.34		
100	PI2 BPSK	1	137	18.30	18.47	18.41	18.0	0.0
100	PI2 BPSK	1	271	18.40	18.49	18.43		
100	PI2 BPSK	135	0	18.34	18.44	18.35	18.0	0.0
100	PI2 BPSK	135	69	18.31	18.42	18.46	18.0	0.0
100	PI2 BPSK	135	138	18.35	18.43	18.38	18.0	0.0
100	PI2 BPSK	270	0	18.44	18.52	18.40	18.0	0.0
100	QPSK	1	1	18.40	18.53	18.45		
100	QPSK	1	137	18.38	18.43	18.38	18.0	0.0
100	QPSK	1	271	18.35	18.47	18.43		
100	QPSK	135	0	18.40	18.42	18.39		
100	QPSK	135	69	18.43	18.50	18.47	18.0	0.0
100	QPSK	135	138	18.30	18.41	18.46	18.0	0.0
100	QPSK	270	0	18.38	18.52	18.46	18.0	0.0
100	16QAM	1	1	18.37	18.38	18.46	18.0	0.0
100	64QAM	1	1	18.38	18.48	18.41	18.0	0.0
100	256QAM	1	1	18.38	18.48	18.39	18.0	0.0
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.31	18.42	18.43	18.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	18.41	18.42	18.35	18.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				18.30	18.44	18.42	18.0	0.0
70	QPSK	1	1	18.30	18.44	18.42	18.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				18.33	18.38	18.46	18.0	0.0
60	QPSK	1	1	18.33	18.38	18.46	18.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2629.99		
50	QPSK	1	1	18.33	18.38	18.44	18.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2518.01	2592.99	2670		
40	QPSK	1	1	18.40	18.41	18.42	18.0	0.0
Channel				502200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.44	18.41	18.35	18.0	0.0
Channel				2508.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				18.38	18.43	18.46	18.0	0.0
20	QPSK	1	1	18.38	18.43	18.46	18.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.05	2592.99	2682.98		
15	QPSK	1	1	18.44	18.42	18.40	18.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	18.34	18.51	18.33	18.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel									
Frequency (MHz)				2541.01	2592.99	2643			
100	PI2 BPSK	1	1	13.55	13.59	13.65			
100	PI2 BPSK	1	137	13.44	13.57	13.52	15.0	0.0	
100	PI2 BPSK	1	271	13.53	13.56	13.50			
100	PI2 BPSK	155	0	13.48	13.53	13.59	15.0	0.0	
100	PI2 BPSK	155	69	13.48	13.53	13.57	15.0	0.0	
100	PI2 BPSK	155	138	13.48	13.51	13.51	15.0	0.0	
100	PI2 BPSK	270	0	13.50	13.52	13.54			
100	QPSK	1	1	13.55	13.65	13.65			
100	QPSK	1	137	13.43	13.57	13.46	15.0	0.0	
100	QPSK	1	271	13.43	13.57	13.55			
100	QPSK	155	0	13.55	13.58	13.49			
100	QPSK	155	69	13.57	13.66	13.54	15.0	0.0	
100	QPSK	155	138	13.56	13.55	13.55			
100	QPSK	270	0	13.51	13.53	13.53	15.0	0.0	
100	16QAM	1	1	13.44	13.64	13.53	15.0	0.0	
100	64QAM	1	1	13.44	13.54	13.57	15.0	0.0	
100	256QAM	1	1	13.49	13.53	13.57	15.0	0.0	
Channel									
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	13.43	13.53	13.51	15.0	0.0	
Channel									
Frequency (MHz)				2572.04	2623.98	2675.98			
80	QPSK	1	1	13.51	13.55	13.45	15.0	0.0	
Channel									
Frequency (MHz)				2631.01	2692.99	2655			
70	QPSK	1	1	13.57	13.57	13.46	15.0	0.0	
Channel									
Frequency (MHz)				502000	518998	531996			
60	QPSK	1	1	13.48	13.52	13.52	15.0	0.0	
Channel									
Frequency (MHz)				504204	518998	532998			
50	QPSK	1	1	13.55	13.52	13.57	15.0	0.0	
Channel									
Frequency (MHz)				505002	518998	535000			
40	QPSK	1	1	2816.01	2892.99	2970	15.0	0.0	
Channel									
Frequency (MHz)				502200	518998	535996			
30	QPSK	1	1	13.49	13.51	13.49	15.0	0.0	
Channel									
Frequency (MHz)				507004	518998	536996			
20	QPSK	1	1	13.55	13.62	13.47	15.0	0.0	
Channel									
Frequency (MHz)				500700	518998	536496			
15	QPSK	1	1	13.55	13.50	13.45	15.0	0.0	
Channel									
Frequency (MHz)				500002	518998	537000			
10	QPSK	1	1	2201.01	2292.99	2365	15.0	0.0	

n41_Ant 5_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel									
Frequency (MHz)				2541.01	2592.99	2643			
100	PI2 BPSK	1	1	13.55	13.59	13.65			
100	PI2 BPSK	1	137	13.44	13.57	13.52	15.0	0.0	
100	PI2 BPSK	1	271	13.53	13.56	13.50			
100	PI2 BPSK	155	0	13.48	13.53	13.59	15.0	0.0	
100	PI2 BPSK	155	69	13.48	13.53	13.57	15.0	0.0	
100	PI2 BPSK	155	138	13.48	13.51	13.51	15.0	0.0	
100	PI2 BPSK	270	0	13.50	13.52	13.54			
100	QPSK	1	1	13.55	13.65	13.65			
100	QPSK	1	137	13.43	13.57	13.46	15.0	0.0	
100	QPSK	1	271	13.43	13.57	13.55			
100	QPSK	155	0	13.55	13.58	13.49			
100	QPSK	155	69	13.57	13.66	13.54	15.0	0.0	
100	QPSK	155	138	13.56	13.55	13.55			
100	QPSK	270	0	13.51	13.53	13.53	15.0	0.0	
100	16QAM	1	1	13.44	13.64	13.53	15.0	0.0	
100	64QAM	1	1	13.44	13.54	13.57	15.0	0.0	
100	256QAM	1	1	13.49	13.53	13.57	15.0	0.0	
Channel									
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	13.43	13.53	13.51	15.0	0.0	
Channel									
Frequency (MHz)				2572.04	2623.98	2675.98			
80	QPSK	1	1	13.51	13.55	13.45	15.0	0.0	
Channel									
Frequency (MHz)				2631.01	2692.99	2655			
70	QPSK	1	1	13.57	13.57	13.46	15.0	0.0	
Channel									
Frequency (MHz)				502000	518998	531996			
60	QPSK	1	1	13.48	13.52	13.52	15.0	0.0	
Channel									
Frequency (MHz)				504204	518998	532998			
50	QPSK	1	1	13.55	13.52	13.57	15.0	0.0	
Channel									
Frequency (MHz)				505002	518998	535000			
40	QPSK	1	1	2816.01	2892.99	2970	15.0	0.0	
Channel									
Frequency (MHz)				502200	518998	535996			
30	QPSK	1	1	13.49	13.51	13.49	15.0	0.0	
Channel									
Frequency (MHz)				507004	518998	536996			
20	QPSK	1	1	13.55	13.62	13.47	15.0	0.0	
Channel									
Frequency (MHz)				500700	518998	536496			
15	QPSK	1	1	13.55	13.50	13.45	15.0	0.0	
Channel									
Frequency (MHz)				500002	518998	537000			
10	QPSK	1	1	2201.01	2292.99	2365	15.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Hgh. Ch. Freq.		
Channel				506202	518698	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.97	21.01	20.91		
100	PI2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PI2 BPSK	1	271	20.93	21.11	20.89		
100	PI2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PI2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PI2 BPSK	135	138	20.76	21.01	20.89	22.5	0.0
100	PI2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.08		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	16QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506200	518698	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518698	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.00	21.04	20.91	22.5	0.0
Channel				508200	518698	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				509200	518698	531966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518698	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.09	21.11	20.90	22.5	0.0
Channel				505202	518698	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.00	20.99	20.92	22.5	0.0
Channel				506200	518698	535966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518698	535966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518698	538498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.5	2592.99	2682.48		
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				506202	518698	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611.01	2592.99	2685		
10	QPSK	1	1	21.07	21.03	20.94	22.5	0.0



n41_Ant 6_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Highest Ch. Freq.		
Channel				506002	518998	526000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	22.84	22.74	22.67		
100	PI2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0
100	PI2 BPSK	1	271	22.71	22.93	22.61		
100	PI2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5
100	PI2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0
100	PI2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5
100	PI2 BPSK	270	0	22.26	22.19	22.28		
100	QPSK	1	1	22.81	22.88	22.85		
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0
100	QPSK	1	271	22.61	22.48	22.63		
100	QPSK	135	0	21.73	21.75	21.76		
100	QPSK	135	69	22.61	22.67	22.61	24.5	0.0
100	QPSK	135	138	21.62	21.71	21.71		
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0
100	64QAM	1	1	20.48	20.64	20.48	22.0	2.5
100	256QAM	1	1	18.25	18.56	18.31	20.0	4.5
Channel				506000	518998	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	22.83	22.88	22.79	24.5	0.0
Channel				507204	518998	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2648.99		
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0
Channel				508200	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0
Channel				509200	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0
Channel				504204	518998	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	22.89	22.94	22.83	24.5	0.0
Channel				505202	518998	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.89	22.94	22.79	24.5	0.0
Channel				506200	518998	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0
Channel				507204	518998	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0
Channel				507000	518998	538400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0
Channel				506202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	18.99	18.99	18.99		
100	PI2 BPSK	1	137	18.99	19.07	19.02	20.0	0.0
100	PI2 BPSK	1	271	18.99	18.96	18.93		
100	PI2 BPSK	135	0	18.95	18.95	18.96	20.0	0.0
100	PI2 BPSK	135	69	18.92	19.02	18.91	20.0	0.0
100	PI2 BPSK	135	138	18.99	18.98	18.97		
100	PI2 BPSK	270	0	18.92	19.08	18.94	20.0	0.0
100	QPSK	1	1	18.12	18.13	18.10		
100	QPSK	1	137	19.00	19.00	18.97	20.0	0.0
100	QPSK	1	271	18.95	18.97	19.04		
100	QPSK	135	0	18.87	18.97	18.94		
100	QPSK	135	69	18.95	18.98	18.91	20.0	0.0
100	QPSK	135	138	18.90	18.90	18.94		
100	QPSK	270	0	19.01	19.05	18.90	20.0	0.0
100	16QAM	1	1	18.90	18.98	18.91	20.0	0.0
100	64QAM	1	1	18.97	18.94	18.93	20.0	0.0
100	256QAM	1	1	18.89	19.03	19.01	20.0	0.0
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.96	18.96	19.04	20.0	0.0
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2646.99		
80	QPSK	1	1	18.95	18.96	18.91	20.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	18.97	19.08	19.03	20.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	18.95	18.99	18.94	20.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2663.99		
50	QPSK	1	1	18.91	19.03	19.02	20.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.89	19.01	19.02	20.0	0.0
Channel				502200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.87	19.03	18.91	20.0	0.0
Channel				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.98	19.06	18.92	20.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2493.5	2592.99	2683.48		
15	QPSK	1	1	18.91	19.08	19.01	20.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2491.01	2592.99	2685		
10	QPSK	1	1	19.00	18.90	18.90	20.0	0.0

n41_Ant 9_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	18.99	19.00	18.99		
100	PI2 BPSK	1	137	18.99	19.07	19.02	20.0	0.0
100	PI2 BPSK	1	271	18.99	18.96	18.93		
100	PI2 BPSK	135	0	18.95	18.95	18.96	20.0	0.0
100	PI2 BPSK	135	69	18.92	19.02	18.91	20.0	0.0
100	PI2 BPSK	135	138	18.99	18.98	18.97		
100	PI2 BPSK	270	0	18.92	19.08	18.94	20.0	0.0
100	QPSK	1	1	18.12	18.13	18.10		
100	QPSK	1	137	19.00	19.00	18.97	20.0	0.0
100	QPSK	1	271	18.95	18.97	19.04		
100	QPSK	135	0	18.87	18.97	18.94		
100	QPSK	135	69	18.95	18.98	18.91	20.0	0.0
100	QPSK	135	138	18.90	18.90	18.94		
100	QPSK	270	0	19.01	19.05	18.90	20.0	0.0
100	16QAM	1	1	18.90	18.98	18.91	20.0	0.0
100	64QAM	1	1	18.97	18.94	18.93	20.0	0.0
100	256QAM	1	1	18.89	19.03	19.01	20.0	0.0
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	18.96	18.96	19.04	20.0	0.0
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2646.99		
80	QPSK	1	1	18.95	18.96	18.91	20.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	18.97	19.08	19.03	20.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	18.95	18.99	18.94	20.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2663.99		
50	QPSK	1	1	18.91	19.03	19.02	20.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	18.89	19.01	19.02	20.0	0.0
Channel				502200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	18.87	19.03	18.91	20.0	0.0
Channel				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	18.98	19.06	18.92	20.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2493.5	2592.99	2683.48		
15	QPSK	1	1	18.91	19.08	19.01	20.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2491.01	2592.99	2685		
10	QPSK	1	1	19.00	18.90	18.90	20.0	0.0



n48_FCC_Part96_Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				636000	641666	645332		
Frequency (MHz)				3374	3624.99	3679.98		
40	PI2 BPSK	1	1	15.34	15.42	15.39		
40	PI2 BPSK	1	53	15.41	15.47	15.46	16.5	0.0
40	PI2 BPSK	1	104	15.37	15.54	15.39		
40	PI2 BPSK	50	0	15.35	15.40	15.39	16.5	0.0
40	PI2 BPSK	50	29	15.42	15.46	15.44	16.5	0.0
40	PI2 BPSK	50	56	15.35	15.45	15.45		
40	PI2 BPSK	100	0	15.39	15.48	15.37	16.5	0.0
40	QPSK	1	1	15.40	15.55	15.20		
40	QPSK	1	53	15.46	15.40	15.49	16.5	0.0
40	QPSK	1	104	15.42	15.47	15.48		
40	QPSK	50	0	15.45	15.49	15.38		
40	QPSK	50	29	15.47	15.52	15.47	16.5	0.0
40	QPSK	50	56	15.44	15.50	15.35		
40	QPSK	100	0	15.33	15.47	15.46	16.5	0.0
40	16QAM	1	1	15.40	15.48	15.42	16.5	0.0
40	64QAM	1	1	15.40	15.42	15.47	16.5	0.0
40	256QAM	1	1	15.32	15.47	15.44	16.5	0.0
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3695.02	3624.99	3684.99		
30	QPSK	1	1	15.45	15.40	15.38	16.5	0.0
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3660.01	3624.99	3690		
20	QPSK	1	1	15.45	15.40	15.49	16.5	0.0
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3624.99	3694.98		
10	QPSK	1	1	15.37	15.51	15.40	16.5	0.0

n48_FCC_Part96_Ant 7								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				636000	641666	645332		
Frequency (MHz)				3374	3624.99	3679.98		
40	PI2 BPSK	1	1	14.13	14.10	14.02		
40	PI2 BPSK	1	53	14.05	14.16	14.04	15.5	0.0
40	PI2 BPSK	1	104	14.16	14.08	14.06		
40	PI2 BPSK	50	0	14.13	14.06	14.10	15.5	0.0
40	PI2 BPSK	50	29	14.03	14.14	14.06	15.5	0.0
40	PI2 BPSK	50	56	14.05	14.17	14.14		
40	PI2 BPSK	100	0	14.16	14.08	14.04	15.5	0.0
40	QPSK	1	1	14.15	14.20	14.15		
40	QPSK	1	53	14.10	14.08	14.06	15.5	0.0
40	QPSK	1	104	14.10	14.12	14.08		
40	QPSK	50	0	14.12	14.14	14.02		
40	QPSK	50	29	14.11	14.17	14.07	15.5	0.0
40	QPSK	50	56	14.08	14.09	14.05		
40	QPSK	100	0	14.07	14.11	14.05	15.5	0.0
40	16QAM	1	1	14.12	14.07	14.05	15.5	0.0
40	64QAM	1	1	14.08	14.09	14.12	15.5	0.0
40	256QAM	1	1	14.09	14.08	14.11	15.5	0.0
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3695.02	3624.99	3684.99		
30	QPSK	1	1	14.10	14.12	14.08	15.5	0.0
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3660.01	3624.99	3690		
20	QPSK	1	1	14.14	14.06	14.00	15.5	0.0
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3624.99	3694.98		
10	QPSK	1	1	14.14	14.17	14.06	15.5	0.0



n48_FCC_Part96_Ant 8							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3269	3623.99	3673.98	
40	PI2 BPSK	1	1	18.88	18.93	18.99	20.0
40	PI2 BPSK	1	53	18.90	18.86	18.91	0.0
40	PI2 BPSK	1	104	18.83	18.91	18.83	0.0
40	PI2 BPSK	50	0	18.84	18.86	18.82	20.0
40	PI2 BPSK	50	26	18.96	18.92	18.92	0.0
40	PI2 BPSK	50	56	18.81	18.94	18.93	20.0
40	PI2 BPSK	100	0	18.88	18.94	18.83	0.0
40	QPSK	1	1	18.92	18.90	18.96	20.0
40	QPSK	1	53	18.95	18.96	18.95	0.0
40	QPSK	1	104	18.91	18.91	18.92	0.0
40	QPSK	50	0	18.82	18.95	18.90	20.0
40	QPSK	50	26	18.84	18.86	18.84	0.0
40	QPSK	50	56	18.81	18.88	18.92	20.0
40	QPSK	100	0	18.90	18.93	18.92	0.0
40	16QAM	1	1	18.88	18.97	18.91	20.0
40	16QAM	1	1	18.29	18.37	18.27	0.0
40	16QAM	1	1	18.96	18.97	18.72	2.0
Channel				637668	641666	645668	
Frequency (MHz)				3565.02	3624.99	3684.99	
30	QPSK	1	1	18.99	18.99	18.93	20.0
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	18.79	18.92	18.81	20.0
Channel				638000	641666	645332	
Frequency (MHz)				3365	3624.99	3694.98	
10	QPSK	1	1	18.83	18.87	18.82	20.0

n48_FCC_Part96_Ant 10							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3270	3624.99	3673.98	
40	PI2 BPSK	1	1	12.93	12.99	12.99	14.0
40	PI2 BPSK	1	53	12.95	12.96	12.96	0.0
40	PI2 BPSK	1	104	12.94	13.00	12.93	0.0
40	PI2 BPSK	50	0	12.83	12.99	12.99	14.0
40	PI2 BPSK	50	26	12.90	12.91	12.96	14.0
40	PI2 BPSK	50	56	12.90	12.99	12.95	14.0
40	PI2 BPSK	100	0	12.88	12.91	12.93	0.0
40	QPSK	1	1	12.96	13.00	13.00	14.0
40	QPSK	1	53	12.90	13.01	12.96	0.0
40	QPSK	1	104	12.91	12.92	12.96	0.0
40	QPSK	50	0	12.86	12.96	12.92	14.0
40	QPSK	50	26	12.94	13.00	12.96	0.0
40	QPSK	50	56	12.93	12.98	12.87	0.0
40	QPSK	100	0	12.82	13.04	12.94	14.0
40	16QAM	1	1	12.91	12.90	12.96	14.0
40	16QAM	1	1	12.86	12.92	12.88	14.0
40	16QAM	1	1	12.92	12.98	12.91	14.0
Channel				637668	641666	645668	
Frequency (MHz)				3565.02	3624.99	3684.99	
30	QPSK	1	1	12.99	12.92	12.97	14.0
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	12.94	12.99	12.99	14.0
Channel				638000	641666	645332	
Frequency (MHz)				3365	3624.99	3694.98	
10	QPSK	1	1	12.91	12.96	12.93	14.0



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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)								
100	Pl2 BPSK	1	1	14.10	14.12	14.09		
100	Pl2 BPSK	1	137	14.04	14.19	14.07	15.0	0.0
100	Pl2 BPSK	1	271	14.01	14.18	14.06		
100	Pl2 BPSK	136	0	14.03	14.07	14.15	15.0	0.0
100	Pl2 BPSK	136	69	14.00	14.13	14.10	15.0	0.0
100	Pl2 BPSK	136	138	14.00	14.13	14.09	15.0	0.0
100	Pl2 BPSK	270	0	14.01	14.17	14.03		
100	QPSK	1	1	14.10	14.20	14.17		
100	QPSK	1	137	14.10	14.08	14.06	15.0	0.0
100	QPSK	1	271	14.11	14.05	14.13		
100	QPSK	136	0	14.00	14.16	14.15		
100	QPSK	136	69	14.10	14.16	14.10	15.0	0.0
100	QPSK	136	138	14.07	14.12	14.11	15.0	0.0
100	QPSK	270	0	14.13	14.15	14.02	15.0	0.0
100	16QAM	1	1	14.10	14.14	14.02	15.0	0.0
100	16QAM	1	1	14.14	14.08	14.13	15.0	0.0
100	16QAM	1	1	14.04	14.12	14.09	15.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.06	14.13	14.14	15.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.14	14.13	14.08	15.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.12	14.18	14.16	15.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.05	14.16	14.05	15.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.08	14.18	14.16	15.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.05	14.18	14.04	15.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.05	14.18	14.09	15.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.08	14.06	14.08	15.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.08	14.06	14.15	15.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.14	14.15	14.16	15.0	0.0

Par270 n77_Ant 4_HPUE

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	Pl2 BPSK	1	1	14.10	14.12	14.09		
100	Pl2 BPSK	1	137	14.04	14.19	14.07	15.0	0.0
100	Pl2 BPSK	1	271	14.01	14.18	14.06		
100	Pl2 BPSK	136	0	14.03	14.07	14.15	15.0	0.0
100	Pl2 BPSK	136	69	14.00	14.13	14.10	15.0	0.0
100	Pl2 BPSK	136	138	14.00	14.13	14.09	15.0	0.0
100	Pl2 BPSK	270	0	14.01	14.17	14.03		
100	QPSK	1	1	14.10	14.20	14.17		
100	QPSK	1	137	14.10	14.08	14.06	15.0	0.0
100	QPSK	1	271	14.11	14.05	14.13		
100	QPSK	136	0	14.00	14.16	14.15		
100	QPSK	136	69	14.10	14.16	14.10	15.0	0.0
100	QPSK	136	138	14.07	14.12	14.11	15.0	0.0
100	QPSK	270	0	14.13	14.15	14.02	15.0	0.0
100	16QAM	1	1	14.10	14.14	14.02	15.0	0.0
100	16QAM	1	1	14.14	14.08	14.13	15.0	0.0
100	16QAM	1	1	14.04	14.12	14.09	15.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.06	14.13	14.14	15.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.14	14.13	14.08	15.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.12	14.18	14.16	15.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.05	14.16	14.05	15.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.08	14.18	14.16	15.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.05	14.18	14.04	15.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.05	14.18	14.09	15.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.08	14.06	14.08	15.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.08	14.06	14.15	15.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.14	14.15	14.16	15.0	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)								
100	Pl2 BPSK	1	1	14.10	14.12	14.09		
100	Pl2 BPSK	1	137	14.04	14.19	14.07	15.0	0.0
100	Pl2 BPSK	1	271	14.01	14.18	14.06		
100	Pl2 BPSK	136	0	14.03	14.07	14.15	15.0	0.0
100	Pl2 BPSK	136	69	14.00	14.13	14.10	15.0	0.0
100	Pl2 BPSK	136	138	14.00	14.13	14.09	15.0	0.0
100	Pl2 BPSK	270	0	14.01	14.17	14.03		
100	QPSK	1	1	14.10	14.20	14.17		
100	QPSK	1	137	14.10	14.08	14.06	15.0	0.0
100	QPSK	1	271	14.11	14.05	14.13		
100	QPSK	136	0	14.00	14.16	14.15		
100	QPSK	136	69	14.10	14.16	14.10	15.0	0.0
100	QPSK	136	138	14.07	14.12	14.11	15.0	0.0
100	QPSK	270	0	14.13	14.15	14.02	15.0	0.0
100	16QAM	1	1	14.10	14.14	14.02	15.0	0.0
100	16QAM	1	1	14.14	14.08	14.13	15.0	0.0
100	16QAM	1	1	14.04	14.12	14.09	15.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.06	14.13	14.14	15.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.14	14.13	14.08	15.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.12	14.18	14.16	15.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.05	14.16	14.05	15.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.08	14.18	14.16	15.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.05	14.18	14.04	15.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.05	14.18	14.14	15.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.08	14.06	14.11	15.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.00	14.10	14.02	15.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.10	14.13	14.07	15.0	0.0



Par27Q n77_Ant 4_HPUE									
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	14.00	3499.88				
100	PI2 BPSK	1	137	14.04			15.0	0.0	
100	PI2 BPSK	1	271	14.08					
100	PI2 BPSK	135	0	14.06			15.0	0.0	
100	PI2 BPSK	135	69	14.24			15.0	0.0	
100	PI2 BPSK	135	138	14.13			15.0	0.0	
100	PI2 BPSK	270	0	14.09					
100	QPSK	1	1	14.15					
100	QPSK	1	137	14.03			15.0	0.0	
100	QPSK	1	271	14.11					
100	QPSK	135	0	14.06					
100	QPSK	135	69	14.19			15.0	0.0	
100	QPSK	135	138	14.06			15.0	0.0	
100	QPSK	270	0	14.01			15.0	0.0	
100	16QAM	1	1	14.00			15.0	0.0	
100	64QAM	1	1	14.11			15.0	0.0	
100	256QAM	1	1	14.07			15.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.06	3499.88	3504.99	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.05	3499.88	3510.00	15.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.01	3499.88	3514.98	15.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.12	3499.88	3519.98	15.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.07	3499.88	3524.98	15.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.05	3499.88	3529.98	15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.03	3499.88	3534.98	15.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.14	3499.88	3539.98	15.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.00	3499.88	3544.99	15.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.10	3499.88	3549.98	15.0	0.0	

Par27Q n77_Ant 7									
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	14.98	3750	3940	14.93		
100	PI2 BPSK	1	137	15.02	14.84	14.50	16.5	0.0	
100	PI2 BPSK	1	271	14.88	15.03	14.88			
100	PI2 BPSK	135	0	14.92	14.88	14.95	16.5	0.0	
100	PI2 BPSK	135	69	15.02	15.00	14.95	16.5	0.0	
100	PI2 BPSK	135	138	14.99	15.03	14.91	16.5	0.0	
100	PI2 BPSK	270	0	15.00	14.92	14.87	16.5	0.0	
100	QPSK	1	1	15.03	15.07	15.03			
100	QPSK	1	137	14.89	15.00	14.89	16.5	0.0	
100	QPSK	1	271	14.97	15.02	14.90			
100	QPSK	135	0	14.93	14.99	14.97			
100	QPSK	135	69	14.97	15.02	14.99	16.5	0.0	
100	QPSK	135	138	14.95	14.93	14.89	16.5	0.0	
100	QPSK	270	0	14.88	14.98	14.91	16.5	0.0	
100	16QAM	1	1	14.94	15.00	14.93	16.5	0.0	
100	64QAM	1	1	15.00	14.98	14.97	16.5	0.0	
100	256QAM	1	1	14.96	15.02	14.87	16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.97	3750	3934.98	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.88	3750	3939.99	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.95	3750	3945	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.89	3750	3949.98	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.83	3750	3954.99	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.80	3750	3959.98	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.81	3750	3964.98	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.01	3750	3969.99	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.95	3750	3974.98	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.97	3750	3979.98	16.5	0.0	

Par27Q n77_Ant 7_HPUE									
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	14.98	3750	3940	14.93		
100	PI2 BPSK	1	137	15.02	14.84	14.50	16.5	0.0	
100	PI2 BPSK	1	271	14.88	15.03	14.88			
100	PI2 BPSK	135	0	14.92	14.88	14.95	16.5	0.0	
100	PI2 BPSK	135	69	15.02	15.00	14.95	16.5	0.0	
100	PI2 BPSK	135	138	14.99	15.03	14.91	16.5	0.0	
100	PI2 BPSK	270	0	15.00	14.92	14.87	16.5	0.0	
100	QPSK	1	1	15.03	15.07	15.03			
100	QPSK	1	137	14.89	15.00	14.89	16.5	0.0	
100	QPSK	1	271	14.97	15.02	14.90			
100	QPSK	135	0	14.93	14.99	14.97			
100	QPSK	135	69	14.97	15.02	14.99	16.5	0.0	
100	QPSK	135	138	14.95	14.93	14.89	16.5	0.0	
100	QPSK	270	0	14.88	14.98	14.91	16.5	0.0	
100	16QAM	1	1	14.94	15.00	14.93	16.5	0.0	
100	64QAM	1	1	15.00	14.98	14.97	16.5	0.0	
100	256QAM	1	1	14.96	15.02	14.87	16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.97	3750	3934.98	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.88	3750	3939.99	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.95	3750	3945	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.89	3750	3949.98	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.83	3750	3954.99	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.80	3750	3959.98	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.81	3750	3964.98	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.01	3750	3969.99	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.95	3750	3974.98	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.97	3750	3979.98	16.5	0.0	



Par27Q n77_Ant 7										
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	14.93						
100	PI2 BPSK	1	137	14.97			16.5	0.0		
100	PI2 BPSK	1	271	15.02						
100	PI2 BPSK	135	0	14.95			16.5	0.0		
100	PI2 BPSK	135	69	15.04			16.5	0.0		
100	PI2 BPSK	135	138	15.00			16.5	0.0		
100	PI2 BPSK	270	0	14.93						
100	QPSK	1	1	15.05						
100	QPSK	1	137	14.95			16.5	0.0		
100	QPSK	1	271	14.90						
100	QPSK	135	0	14.90						
100	QPSK	135	69	15.01			16.5	0.0		
100	QPSK	135	138	14.95			16.5	0.0		
100	QPSK	270	0	14.95			16.5	0.0		
100	16QAM	1	1	15.00			16.5	0.0		
100	64QAM	1	1	15.01			16.5	0.0		
100	256QAM	1	1	14.99			16.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	14.96	14.97	15.03	16.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	15.04	14.91	15.04	16.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	15.01	15.04	14.97	16.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	14.94	14.93	14.91	16.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	15.03	14.90	14.95	16.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.90	14.91	14.94	16.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.03	14.93	14.99	16.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.94	15.01	14.91	16.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.03	15.01	14.90	16.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	14.97	14.95	14.91	16.5	0.0		

Par27Q n77_Ant 7_HPUE										
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	14.93						
100	PI2 BPSK	1	137	14.97			16.5	0.0		
100	PI2 BPSK	1	271	15.02						
100	PI2 BPSK	135	0	14.95			16.5	0.0		
100	PI2 BPSK	135	69	15.04			16.5	0.0		
100	PI2 BPSK	135	138	15.00			16.5	0.0		
100	PI2 BPSK	270	0	14.93						
100	QPSK	1	1	15.05						
100	QPSK	1	137	14.95			16.5	0.0		
100	QPSK	1	271	14.90						
100	QPSK	135	0	14.90						
100	QPSK	135	69	15.01			16.5	0.0		
100	QPSK	135	138	14.95			16.5	0.0		
100	QPSK	270	0	14.95			16.5	0.0		
100	16QAM	1	1	15.00			16.5	0.0		
100	64QAM	1	1	15.01			16.5	0.0		
100	256QAM	1	1	14.99			16.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	14.96	14.97	15.03	16.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	15.04	14.91	15.04	16.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	15.01	15.04	14.97	16.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	14.94	14.93	14.91	16.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	15.03	14.90	14.95	16.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.90	14.91	14.94	16.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.03	14.93	14.99	16.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.94	15.01	14.91	16.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.03	15.01	14.90	16.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	14.97	14.95	14.91	16.5	0.0		

Par27O n77_Ant 8										
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	15.97	16.03	16.00				
100	PI2 BPSK	1	137	15.97	16.01	15.94	17.5	0.0		
100	PI2 BPSK	1	271	15.86	15.97	15.95				
100	PI2 BPSK	135	0	15.89	15.98	15.86	17.5	0.0		
100	PI2 BPSK	135	69	15.86	15.95	15.88	17.5	0.0		
100	PI2 BPSK	135	138	15.95	16.02	15.95	17.5	0.0		
100	PI2 BPSK	270	0	15.71	15.94	15.87				
100	QPSK	1	1	16.05	16.11	16.05				
100	QPSK	1	137	15.85	16.00	15.85	17.5	0.0		
100	QPSK	1	271	15.99	16.02	16.02				
100	QPSK	135	0	15.95	16.00	15.92				
100	QPSK	135	69	15.99	16.03	16.01	17.5	0.0		
100	QPSK	135	138	15.89	16.00	16.00				
100	QPSK	270	0	15.87	15.93	15.90	17.5	0.0		
100	16QAM	1	1	15.97	16.02	15.94	17.5	0.0		
100	64QAM	1	1	15.87	15.96	15.70	17.5	0.0		
100	256QAM	1	1	15.94	15.99	15.87	17.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.02	16.00	15.95	17.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	15.97	15.97	16.00	17.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	15.97	15.97	16.02	17.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	15.95	15.98	16.01	17.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	15.99	15.98	16.02	17.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.99	16.02	15.99	17.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.93	15.96	15.99	17.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.01	16.02	16.01	17.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.97	16.01	15.99	17.5	0.0		



Par270 n77_Ant 8_HPUE										
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	PQ2 BPSK	1	1	15.97	16.00	16.00				
100	PQ2 BPSK	1	137	15.97	16.01	15.94	17.5	0.0		
100	PQ2 BPSK	1	271	15.86	15.97	15.95				
100	PQ2 BPSK	135	0	15.89	15.98	15.88	17.5	0.0		
100	PQ2 BPSK	135	69	15.86	15.95	15.88	17.5	0.0		
100	PQ2 BPSK	135	138	15.95	16.02	15.95				
100	PQ2 BPSK	270	0	15.71	15.94	15.87	17.5	0.0		
100	QPSK	1	1	16.02	16.00	16.00				
100	QPSK	1	137	15.86	16.00	15.85	17.5	0.0		
100	QPSK	1	271	15.95	16.02	16.02				
100	QPSK	135	0	15.95	16.00	15.92				
100	QPSK	135	69	15.86	16.00	16.00	17.5	0.0		
100	QPSK	135	138	15.89	16.00	16.00				
100	QPSK	270	0	15.87	15.93	15.90	17.5	0.0		
100	16QAM	1	1	15.97	16.02	15.94	17.5	0.0		
100	64QAM	1	1	15.87	15.96	15.79	17.5	0.0		
100	256QAM	1	1	15.84	15.99	15.87	17.5	0.0		
Channel										
Frequency (MHz)										
689968	656000	663032					Tune-up limit (dBm)	MPR		
3745.02	3840	3934.98					(dBm)	(dB)		
Channel										
Frequency (MHz)										
90	QPSK	1	1	16.02	16.00	15.85	17.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.01	16.00	16.00	17.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	15.97	16.00	16.00	17.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	15.97	15.97	16.02	17.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	15.94	15.98	16.01	17.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	15.92	15.99	16.00	17.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.99	16.02	15.99	17.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.93	15.98	16.00	17.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.01	16.02	16.01	17.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.91	16.01	15.99	17.5	0.0		

Par270 n77_Ant 8										
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	PQ2 BPSK	1	1	16.02	16.00	16.00				
100	PQ2 BPSK	1	137	16.06	16.00	16.00	17.5	0.0		
100	PQ2 BPSK	1	271	16.02	16.00	16.00				
100	PQ2 BPSK	135	0	16.01	16.00	16.00	17.5	0.0		
100	PQ2 BPSK	135	69	16.04	16.00	16.00	17.5	0.0		
100	PQ2 BPSK	135	138	16.05	16.00	16.00	17.5	0.0		
100	PQ2 BPSK	270	0	16.05	16.00	16.00				
100	QPSK	1	1	16.16	16.00	16.00				
100	QPSK	1	137	16.09	16.00	16.00	17.5	0.0		
100	QPSK	1	271	16.09	16.00	16.00				
100	QPSK	135	0	16.00	16.00	16.00				
100	QPSK	135	69	16.09	16.00	16.00	17.5	0.0		
100	QPSK	135	138	15.99	16.00	16.00				
100	QPSK	270	0	16.00	16.00	16.00	17.5	0.0		
100	16QAM	1	1	16.00	16.00	16.00	17.5	0.0		
100	64QAM	1	1	16.04	16.00	16.00	17.5	0.0		
100	256QAM	1	1	16.00	16.00	16.00	17.5	0.0		
Channel										
Frequency (MHz)										
639000	633332	639666					Tune-up limit (dBm)	MPR		
3495	3499.98	3504.99					(dBm)	(dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.10	16.10	16.09	17.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.05	16.09	16.10	17.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	16.01	16.07	16.02	17.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.04	16.09	16.04	17.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	16.04	16.09	16.04	17.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.02	16.00	16.04	17.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.09	16.10	16.09	17.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.02	16.01	16.06	17.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.08	16.09	16.07	17.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.01	16.02	16.07	17.5	0.0		

Par270 n77_Ant 8_HPUE										
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	PQ2 BPSK	1	1	16.02	16.00	16.00				
100	PQ2 BPSK	1	137	16.06	16.00	16.00	17.5	0.0		
100	PQ2 BPSK	1	271	16.02	16.00	16.00				
100	PQ2 BPSK	135	0	16.01	16.00	16.00	17.5	0.0		
100	PQ2 BPSK	135	69	16.04	16.00	16.00	17.5	0.0		
100	PQ2 BPSK	135	138	16.05	16.00	16.00	17.5	0.0		
100	PQ2 BPSK	270	0	16.05	16.00	16.00				
100	QPSK	1	1	16.16	16.00	16.00				
100	QPSK	1	137	16.09	16.00	16.00	17.5	0.0		
100	QPSK	1	271	16.09	16.00	16.00				
100	QPSK	135	0	16.00	16.00	16.00				
100	QPSK	135	69	16.09	16.00	16.00	17.5	0.0		
100	QPSK	135	138	15.99	16.00	16.00				
100	QPSK	270	0	16.00	16.00	16.00	17.5	0.0		
100	16QAM	1	1	16.00	16.00	16.00	17.5	0.0		
100	64QAM	1	1	16.04	16.00	16.00	17.5	0.0		
100	256QAM	1	1	16.00	16.00	16.00	17.5	0.0		
Channel										
Frequency (MHz)										
639000	633332	639666					Tune-up limit (dBm)	MPR		
3495	3499.98	3504.99					(dBm)	(dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.10	16.10	16.09	17.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.05	16.09	16.10	17.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	16.01	16.07	16.02	17.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.04	16.09	16.04	17.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	16.04	16.09	16.04	17.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.02	16.00	16.04	17.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.09	16.10	16.09	17.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.02	16.01	16.06	17.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.08	16.09	16.07	17.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.01	16.02	16.07	17.5	0.0		



Par270 n77_Ant 10										
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	11.20	11.11	11.24				
100	PI2 BPSK	1	137	11.22	11.16	11.26	12.5	0.0		
100	PI2 BPSK	1	271	11.11	11.19	11.15				
100	PI2 BPSK	135	0	11.17	11.27	11.21	12.5	0.0		
100	PI2 BPSK	135	69	11.21	11.21	11.15	12.5	0.0		
100	PI2 BPSK	135	138	11.14	11.19	11.25				
100	PI2 BPSK	270	0	11.17	11.19	11.09	12.5	0.0		
100	QPSK	1	1	11.24	11.29	11.26				
100	QPSK	1	137	11.19	11.22	11.19	12.5	0.0		
100	QPSK	1	271	11.20	11.12	11.17				
100	QPSK	135	0	11.19	11.21	11.20				
100	QPSK	135	69	11.21	11.26	11.21	12.5	0.0		
100	QPSK	135	138	11.18	11.16	11.11				
100	QPSK	270	0	11.14	11.25	11.09	12.5	0.0		
100	16QAM	1	1	10.97	11.27	11.24	12.5	0.0		
100	16QAM	1	1	11.14	11.08	11.08	12.5	0.0		
100	256QAM	1	1	11.10	11.28	11.14	12.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	11.01	11.24	10.99	12.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	11.10	11.22	11.14	12.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	11.06	11.17	11.07	12.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	11.05	11.08	11.11	12.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	11.10	11.15	10.97	12.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	11.02	11.24	11.09	12.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	11.09	11.18	11.13	12.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	11.09	11.13	11.02	12.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	11.10	11.11	11.04	12.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	11.09	11.06	11.01	12.5	0.0		

Par270 n77_Ant 10_HPUe										
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	11.20	11.11	11.24				
100	PI2 BPSK	1	137	11.22	11.16	11.26	12.5	0.0		
100	PI2 BPSK	1	271	11.11	11.19	11.15				
100	PI2 BPSK	135	0	11.17	11.27	11.21	12.5	0.0		
100	PI2 BPSK	135	69	11.21	11.21	11.15	12.5	0.0		
100	PI2 BPSK	135	138	11.14	11.19	11.25				
100	PI2 BPSK	270	0	11.17	11.19	11.09	12.5	0.0		
100	QPSK	1	1	11.24	11.29	11.26				
100	QPSK	1	137	11.19	11.22	11.19	12.5	0.0		
100	QPSK	1	271	11.20	11.12	11.17				
100	QPSK	135	0	11.19	11.21	11.20				
100	QPSK	135	69	11.21	11.26	11.21	12.5	0.0		
100	QPSK	135	138	11.18	11.16	11.11				
100	QPSK	270	0	11.14	11.25	11.09	12.5	0.0		
100	16QAM	1	1	10.97	11.27	11.24	12.5	0.0		
100	16QAM	1	1	11.14	11.08	11.08	12.5	0.0		
100	256QAM	1	1	11.10	11.28	11.14	12.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	11.01	11.24	10.99	12.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	11.10	11.22	11.14	12.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	11.06	11.17	11.07	12.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	11.05	11.08	11.11	12.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	11.10	11.15	10.97	12.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	11.02	11.24	11.09	12.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	11.09	11.18	11.13	12.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	11.09	11.13	11.02	12.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	11.10	11.11	11.04	12.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	11.09	11.06	11.01	12.5	0.0		

Par270 n77_Ant 10										
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	11.15						
100	PI2 BPSK	1	137	11.10			12.5	0.0		
100	PI2 BPSK	1	271	11.25						
100	PI2 BPSK	135	0	11.21			12.5	0.0		
100	PI2 BPSK	135	69	11.21			12.5	0.0		
100	PI2 BPSK	135	138	11.20						
100	PI2 BPSK	270	0	11.13			12.5	0.0		
100	QPSK	1	1	11.32						
100	QPSK	1	137	11.23			12.5	0.0		
100	QPSK	1	271	11.20						
100	QPSK	135	0	11.15						
100	QPSK	135	69	11.28			12.5	0.0		
100	QPSK	135	138	11.19						
100	QPSK	270	0	11.26			12.5	0.0		
100	16QAM	1	1	11.26			12.5	0.0		
100	16QAM	1	1	11.00			12.5	0.0		
100	256QAM	1	1	11.24			12.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	11.10	11.00	11.03	12.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	11.17	11.23	11.17	12.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	11.09	11.12	11.09	12.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	11.08	11.08	11.14	12.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	11.02	11.23	11.14	12.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	11.10	11.15	10.99	12.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	11.09	11.08	10.99	12.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	11.00	11.24	11.02	12.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	11.15	11.22	10.99	12.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	11.05	11.08	11.11	12.5	0.0		



Par27Q n77_Ant 10_HPUE										
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	11.15						
100	PI2 BPSK	1	137	11.10			12.5	0.0		
100	PI2 BPSK	1	271	11.26						
100	PI2 BPSK	135	0	11.21			12.5	0.0		
100	PI2 BPSK	135	69	11.31			12.5	0.0		
100	PI2 BPSK	135	138	11.20			12.5	0.0		
100	PI2 BPSK	270	0	11.13						
100	QPSK	1	1	11.32			12.5	0.0		
100	QPSK	1	137	11.25						
100	QPSK	1	271	11.20						
100	QPSK	135	0	11.15						
100	QPSK	135	69	11.29			12.5	0.0		
100	QPSK	135	138	11.19			12.5	0.0		
100	QPSK	270	0	11.28			12.5	0.0		
100	16QAM	1	1	11.28			12.5	0.0		
100	64QAM	1	1	11.00			12.5	0.0		
100	256QAM	1	1	11.24			12.5	0.0		
Channel										
Frequency (MHz)										
633000	633332	633666					Tune-up limit (dBm)	MPR (dB)		
3495	3499.98	3504.96								
Channel										
Frequency (MHz)										
90	QPSK	1	1	11.10	11.00	11.13	12.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	11.17	11.23	11.17	12.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	11.09	11.12	11.09	12.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	11.06	11.08	11.14	12.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	11.17	11.23	11.17	12.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	11.16	11.21	11.15	12.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	11.10	11.08	10.99	12.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	11.00	11.24	11.02	12.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	11.15	11.22	10.99	12.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	11.05	11.00	11.11	12.5	0.0		

Par270 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)										
100	PI2 BPSK	1	1	14.07						
100	PI2 BPSK	1	137	13.94			15.0	0.0		
100	PI2 BPSK	1	271	13.96						
100	PI2 BPSK	135	0	14.02			15.0	0.0		
100	PI2 BPSK	135	69	14.03			15.0	0.0		
100	PI2 BPSK	135	138	14.02			15.0	0.0		
100	PI2 BPSK	270	0	14.02						
100	QPSK	1	1	14.09			15.0	0.0		
100	QPSK	1	137	13.96						
100	QPSK	1	271	14.08						
100	QPSK	135	0	13.96						
100	QPSK	135	69	14.08			15.0	0.0		
100	QPSK	135	138	13.94						
100	QPSK	270	0	14.08			15.0	0.0		
100	16QAM	1	1	14.00			15.0	0.0		
100	64QAM	1	1	14.01			15.0	0.0		
100	256QAM	1	1	14.00			15.0	0.0		
Channel										
Frequency (MHz)										
64968	65000	65032					Tune-up limit (dBm)	MPR (dB)		
3745.02	3750	3754.98								
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.02	14.08	14.00	15.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	13.95	14.01	14.08	15.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.04	14.00	13.96	15.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	14.02	14.01	14.00	15.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	13.95	14.01	14.08	15.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.05	14.03	14.03	15.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.08	14.03	14.06	15.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.03	14.02	14.02	15.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.06	13.99	13.99	15.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	13.96	13.95	14.00	15.0	0.0		

Par270 n78_Ant 4_HPUE										
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	14.07						
100	PI2 BPSK	1	137	13.94			15.0	0.0		
100	PI2 BPSK	1	271	13.96						
100	PI2 BPSK	135	0	14.02			15.0	0.0		
100	PI2 BPSK	135	69	14.03			15.0	0.0		
100	PI2 BPSK	135	138	14.02			15.0	0.0		
100	PI2 BPSK	270	0	14.02						
100	QPSK	1	1	14.09			15.0	0.0		
100	QPSK	1	137	13.96						
100	QPSK	1	271	14.08						
100	QPSK	135	0	13.96						
100	QPSK	135	69	14.08			15.0	0.0		
100	QPSK	135	138	13.94						
100	QPSK	270	0	14.08			15.0	0.0		
100	16QAM	1	1	14.00			15.0	0.0		
100	64QAM	1	1	14.01			15.0	0.0		
100	256QAM	1	1	14.00			15.0	0.0		
Channel										
Frequency (MHz)										
64968	65000	65032					Tune-up limit (dBm)	MPR (dB)		
3745.02	3750	3754.98								
Channel										
Frequency (MHz)										
80	QPSK	1	1	14.02	14.08	14.00	15.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	13.95	14.01	14.08	15.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	14.04	14.00	13.96	15.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	14.02	14.01	14.00	15.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	13.95	14.01	14.08	15.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	14.05	14.03	14.03	15.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.08	14.03	14.06	15.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.03	14.02	14.02	15.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.06	13.99	13.99	15.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	13.96	13.95	14.00	15.0	0.0		



Part27Q n78_Ant 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	13.99	14.02	14.02	15.0
100	PI2 BPSK	1	137	13.98	13.99	13.99	15.0
100	PI2 BPSK	1	271	13.98	13.99	13.99	15.0
100	PI2 BPSK	135	0	14.06	14.06	14.06	15.0
100	PI2 BPSK	135	69	14.02	14.02	14.02	15.0
100	PI2 BPSK	135	138	14.02	14.02	14.02	15.0
100	PI2 BPSK	270	0	14.07	14.07	14.07	15.0
100	QPSK	1	1	13.98	13.98	13.98	15.0
100	QPSK	1	137	13.98	13.98	13.98	15.0
100	QPSK	1	271	13.98	13.98	13.98	15.0
100	QPSK	135	0	14.00	14.00	14.00	15.0
100	QPSK	135	69	14.06	14.06	14.06	15.0
100	QPSK	135	138	14.02	14.02	14.02	15.0
100	QPSK	270	0	14.05	14.05	14.05	15.0
100	16QAM	1	1	13.92	13.92	13.92	15.0
100	64QAM	1	1	14.06	14.06	14.06	15.0
100	256QAM	1	1	14.02	14.02	14.02	15.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	13.95	14.02	13.83	15.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.06	13.92	14.05	15.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.00	13.98	14.01	15.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	13.99	14.03	14.04	15.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	13.93	14.04	13.98	15.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.03	13.97	14.03	15.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	13.94	13.98	14.06	15.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	13.95	14.03	13.93	15.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.00	14.01	13.98	15.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.01	13.95	14.00	15.0

Part27Q n78_Ant 4_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	13.99	14.02	14.02	15.0
100	PI2 BPSK	1	137	13.98	13.99	13.99	15.0
100	PI2 BPSK	1	271	13.98	13.99	13.99	15.0
100	PI2 BPSK	135	0	14.06	14.06	14.06	15.0
100	PI2 BPSK	135	69	14.02	14.02	14.02	15.0
100	PI2 BPSK	135	138	14.02	14.02	14.02	15.0
100	PI2 BPSK	270	0	14.07	14.07	14.07	15.0
100	QPSK	1	1	13.98	13.98	13.98	15.0
100	QPSK	1	137	13.98	13.98	13.98	15.0
100	QPSK	1	271	13.98	13.98	13.98	15.0
100	QPSK	135	0	14.00	14.00	14.00	15.0
100	QPSK	135	69	14.06	14.06	14.06	15.0
100	QPSK	135	138	14.02	14.02	14.02	15.0
100	QPSK	270	0	14.05	14.05	14.05	15.0
100	16QAM	1	1	13.92	13.92	13.92	15.0
100	64QAM	1	1	14.06	14.06	14.06	15.0
100	256QAM	1	1	14.02	14.02	14.02	15.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	13.95	14.02	13.83	15.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.06	13.92	14.05	15.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.00	13.98	14.01	15.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	13.99	14.03	14.04	15.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	13.93	14.04	13.98	15.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.03	13.97	14.03	15.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	13.94	13.98	14.06	15.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	13.95	14.03	13.93	15.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.00	14.01	13.98	15.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.01	13.95	14.00	15.0



Par270 n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	14.97	15.01	14.97	16.5
100	PI2 BPSK	1	137	14.97	15.01	14.97	16.5
100	PI2 BPSK	1	271	14.97	15.01	14.97	16.5
100	PI2 BPSK	135	0	14.97	15.01	14.97	16.5
100	PI2 BPSK	135	69	14.97	15.01	14.97	16.5
100	PI2 BPSK	135	138	15.02	14.98	15.02	16.5
100	PI2 BPSK	270	0	14.98	14.98	14.98	16.5
100	QPSK	1	1	15.05	14.95	15.05	16.5
100	QPSK	1	137	14.95	15.05	14.95	16.5
100	QPSK	1	271	14.97	14.97	14.97	16.5
100	QPSK	135	0	14.98	14.98	14.98	16.5
100	QPSK	135	69	15.00	14.94	15.00	16.5
100	QPSK	135	138	14.94	15.00	14.94	16.5
100	QPSK	270	0	14.95	14.95	14.95	16.5
100	16QAM	1	1	14.91	14.91	14.91	16.5
100	64QAM	1	1	14.96	14.96	14.96	16.5
100	256QAM	1	1	15.02	15.02	15.02	16.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.95	14.95	14.97	16.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.97	15.00	15.02	16.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.99	14.91	14.92	16.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.02	14.94	14.99	16.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.99	14.98	14.95	16.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.98	14.93	14.97	16.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.96	15.00	14.95	16.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.90	15.01	14.93	16.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.92	14.97	15.02	16.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.93	14.96	15.03	16.5

Par270 n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	14.97	15.01	14.97	16.5
100	PI2 BPSK	1	137	14.97	15.01	14.97	16.5
100	PI2 BPSK	1	271	14.97	15.01	14.97	16.5
100	PI2 BPSK	135	0	14.97	15.01	14.97	16.5
100	PI2 BPSK	135	69	14.97	15.01	14.97	16.5
100	PI2 BPSK	135	138	15.02	14.98	15.02	16.5
100	PI2 BPSK	270	0	14.98	14.98	14.98	16.5
100	QPSK	1	1	15.05	14.95	15.05	16.5
100	QPSK	1	137	14.95	15.05	14.95	16.5
100	QPSK	1	271	14.97	14.97	14.97	16.5
100	QPSK	135	0	14.98	14.98	14.98	16.5
100	QPSK	135	69	15.00	14.94	15.00	16.5
100	QPSK	135	138	14.94	15.00	14.94	16.5
100	QPSK	270	0	14.95	14.95	14.95	16.5
100	16QAM	1	1	14.91	14.91	14.91	16.5
100	64QAM	1	1	14.96	14.96	14.96	16.5
100	256QAM	1	1	15.02	15.02	15.02	16.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.95	14.95	14.97	16.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.97	15.00	15.02	16.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.99	14.91	14.92	16.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.02	14.94	14.99	16.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.99	14.98	14.95	16.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.98	14.93	14.97	16.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.96	15.00	14.95	16.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.90	15.01	14.93	16.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.92	14.97	15.02	16.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.93	14.96	15.03	16.5



Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	14.91	14.91	14.91	0.0
100	PI2 BPSK	1	137	14.97	14.97	14.97	16.5
100	PI2 BPSK	1	271	14.90	14.90	14.90	0.0
100	PI2 BPSK	135	0	14.98	14.98	14.98	16.5
100	PI2 BPSK	135	69	14.95	14.95	14.95	16.5
100	PI2 BPSK	135	138	15.00	15.00	15.00	16.5
100	PI2 BPSK	270	0	15.00	15.00	15.00	16.5
100	QPSK	1	1	15.03	15.03	15.03	0.0
100	QPSK	1	137	15.01	15.01	15.01	16.5
100	QPSK	1	271	14.94	14.94	14.94	0.0
100	QPSK	135	0	14.93	14.93	14.93	16.5
100	QPSK	135	69	15.02	15.02	15.02	16.5
100	QPSK	135	138	15.01	15.01	15.01	16.5
100	QPSK	270	0	14.95	14.95	14.95	16.5
100	16QAM	1	1	14.99	14.99	14.99	16.5
100	64QAM	1	1	15.00	15.00	15.00	16.5
100	256QAM	1	1	14.98	14.98	14.98	16.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.96	14.96	14.96	16.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.98	14.98	14.98	16.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.97	14.97	14.97	16.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.00	15.00	15.00	16.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.02	15.02	15.02	16.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.94	14.94	14.94	16.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.97	14.97	14.97	16.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.95	14.95	14.95	16.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.98	14.98	14.98	16.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.90	14.90	14.90	16.5

Part27Q n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	14.91	14.91	14.91	0.0
100	PI2 BPSK	1	137	14.97	14.97	14.97	16.5
100	PI2 BPSK	1	271	14.90	14.90	14.90	0.0
100	PI2 BPSK	135	0	14.98	14.98	14.98	16.5
100	PI2 BPSK	135	69	14.95	14.95	14.95	16.5
100	PI2 BPSK	135	138	15.00	15.00	15.00	16.5
100	PI2 BPSK	270	0	15.00	15.00	15.00	16.5
100	QPSK	1	1	15.03	15.03	15.03	0.0
100	QPSK	1	137	15.01	15.01	15.01	16.5
100	QPSK	1	271	14.94	14.94	14.94	0.0
100	QPSK	135	0	14.93	14.93	14.93	16.5
100	QPSK	135	69	15.02	15.02	15.02	16.5
100	QPSK	135	138	15.01	15.01	15.01	16.5
100	QPSK	270	0	14.95	14.95	14.95	16.5
100	16QAM	1	1	14.99	14.99	14.99	16.5
100	64QAM	1	1	15.00	15.00	15.00	16.5
100	256QAM	1	1	14.98	14.98	14.98	16.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.96	14.96	14.96	16.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.98	14.98	14.98	16.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.97	14.97	14.97	16.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.00	15.00	15.00	16.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.02	15.02	15.02	16.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.94	14.94	14.94	16.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.97	14.97	14.97	16.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.95	14.95	14.95	16.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	14.98	14.98	14.98	16.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	14.90	14.90	14.90	16.5



Par270 n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	15.90	15.90		
100	PI2 BPSK	1	137	16.02	16.02	17.5	0.0
100	PI2 BPSK	1	271	15.97	15.97		
100	PI2 BPSK	135	0	16.01	16.01	17.5	0.0
100	PI2 BPSK	135	69	15.95	15.95	17.5	0.0
100	PI2 BPSK	135	138	15.95	15.95	17.5	0.0
100	PI2 BPSK	270	0	15.92	15.92		
100	QPSK	1	1	16.06	16.06		
100	QPSK	1	137	15.88	15.88	17.5	0.0
100	QPSK	1	271	15.91	15.91		
100	QPSK	135	0	15.83	15.83		
100	QPSK	135	69	16.03	16.03	17.5	0.0
100	QPSK	135	138	15.76	15.76	17.5	0.0
100	QPSK	270	0	15.89	15.89	17.5	0.0
100	16QAM	1	1	15.03	15.03	17.5	0.0
100	64QAM	1	1	15.94	15.94	17.5	0.0
100	256QAM	1	1	15.87	15.87	17.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.85	15.85	15.83	17.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.81	15.86	15.93	17.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.83	15.87	15.83	17.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.85	15.92	15.86	17.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.73	15.88	15.92	17.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.72	15.75	15.75	17.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.87	15.91	15.92	17.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.95	16.05	15.87	17.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.78	16.01	15.86	17.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.94	16.05	15.79	17.5

Par270 n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	15.88	15.88		
100	PI2 BPSK	1	137	16.02	16.02	17.5	0.0
100	PI2 BPSK	1	271	15.97	15.97		
100	PI2 BPSK	135	0	16.01	16.01	17.5	0.0
100	PI2 BPSK	135	69	15.95	15.95	17.5	0.0
100	PI2 BPSK	135	138	15.95	15.95	17.5	0.0
100	PI2 BPSK	270	0	15.92	15.92		
100	QPSK	1	1	16.06	16.06		
100	QPSK	1	137	15.88	15.88	17.5	0.0
100	QPSK	1	271	15.91	15.91		
100	QPSK	135	0	15.83	15.83		
100	QPSK	135	69	16.03	16.03	17.5	0.0
100	QPSK	135	138	15.76	15.76	17.5	0.0
100	QPSK	270	0	15.89	15.89	17.5	0.0
100	16QAM	1	1	15.03	15.03	17.5	0.0
100	64QAM	1	1	15.94	15.94	17.5	0.0
100	256QAM	1	1	15.87	15.87	17.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	15.85	15.85	15.83	17.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.81	15.86	15.93	17.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.83	15.87	15.83	17.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.85	15.92	15.86	17.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.73	15.88	15.92	17.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	15.72	15.75	15.75	17.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.87	15.91	15.92	17.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	15.95	16.05	15.87	17.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.78	16.01	15.86	17.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.94	16.05	15.79	17.5



Part27Q n78_Ant 8									
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)									
100	PI2 BPSK	1	1	16.11	16.09	16.08	17.5	0.0	
100	PI2 BPSK	1	137	16.09	16.08	16.08			
100	PI2 BPSK	1	271	16.17	16.17	16.17	17.5	0.0	
100	PI2 BPSK	135	0	16.09	16.09	16.09	17.5	0.0	
100	PI2 BPSK	135	138	15.80	15.80	15.80	17.5	0.0	
100	PI2 BPSK	270	0	15.99	15.99	15.99			
100	QPSK	1	1	16.28	16.28	16.28	17.5	0.0	
100	QPSK	1	137	16.27	16.27	16.27			
100	QPSK	1	271	15.50	15.50	15.50	17.5	0.0	
100	QPSK	135	0	16.22	16.22	16.22	17.5	0.0	
100	QPSK	135	138	16.25	16.25	16.25	17.5	0.0	
100	QPSK	135	138	16.03	16.03	16.03	17.5	0.0	
100	QPSK	270	0	16.11	16.11	16.11	17.5	0.0	
100	16QAM	1	1	16.14	16.14	16.14	17.5	0.0	
100	16QAM	1	1	16.26	16.26	16.26	17.5	0.0	
100	256QAM	1	1	16.26	16.26	16.26	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.10	16.10	16.09	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.02	16.11	16.15	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.15	16.17	16.04	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.09	16.24	16.18	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.17	16.03	16.19	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.07	16.10	16.08	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.09	16.15	16.02	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.17	16.21	16.09	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.19	16.11	16.16	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.20	16.20	16.09	17.5	0.0	

Part27Q n78_Ant 8_HPUE									
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)									
100	PI2 BPSK	1	1	16.11	16.09	16.08	17.5	0.0	
100	PI2 BPSK	1	137	16.09	16.08	16.08			
100	PI2 BPSK	1	271	16.17	16.17	16.17	17.5	0.0	
100	PI2 BPSK	135	0	16.09	16.09	16.09	17.5	0.0	
100	PI2 BPSK	135	138	15.80	15.80	15.80	17.5	0.0	
100	PI2 BPSK	270	0	15.99	15.99	15.99			
100	QPSK	1	1	16.28	16.28	16.28	17.5	0.0	
100	QPSK	1	137	16.27	16.27	16.27			
100	QPSK	1	271	15.50	15.50	15.50	17.5	0.0	
100	QPSK	135	0	16.22	16.22	16.22	17.5	0.0	
100	QPSK	135	138	16.25	16.25	16.25	17.5	0.0	
100	QPSK	135	138	16.03	16.03	16.03	17.5	0.0	
100	QPSK	270	0	16.11	16.11	16.11	17.5	0.0	
100	16QAM	1	1	16.14	16.14	16.14	17.5	0.0	
100	16QAM	1	1	16.26	16.26	16.26	17.5	0.0	
100	256QAM	1	1	16.26	16.26	16.26	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.10	16.10	16.09	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.02	16.11	16.15	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.15	16.17	16.04	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.09	16.24	16.18	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.17	16.03	16.19	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.07	16.10	16.08	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.09	16.15	16.02	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.17	16.21	16.09	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.19	16.11	16.16	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.20	16.20	16.09	17.5	0.0	



Par270 n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	11.00			
100	PI2 BPSK	1	137	11.17			12.5
100	PI2 BPSK	1	271	11.03			
100	PI2 BPSK	135	0	11.01			12.5
100	PI2 BPSK	135	69	11.13			12.5
100	PI2 BPSK	135	138	11.14			12.5
100	PI2 BPSK	270	0	11.00			12.5
100	QPSK	1	1	11.18			
100	QPSK	1	137	11.04			12.5
100	QPSK	1	271	11.00			
100	QPSK	135	0	11.06			
100	QPSK	135	69	11.16			12.5
100	QPSK	135	138	11.10			12.5
100	QPSK	270	0	11.13			12.5
100	16QAM	1	1	11.06			12.5
100	64QAM	1	1	11.16			12.5
100	256QAM	1	1	11.10			12.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	11.02	11.00	11.02	12.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	10.99	11.13	11.12	12.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	10.96	11.12	11.09	12.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	10.98	11.06	11.07	12.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.02	11.15	10.99	12.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	11.00	11.00	10.99	12.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	10.93	10.99	11.11	12.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	10.95	11.17	10.98	12.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	11.03	11.16	11.06	12.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	11.10	11.15	11.02	12.5

Par270 n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	11.00			
100	PI2 BPSK	1	137	11.17			12.5
100	PI2 BPSK	1	271	11.03			
100	PI2 BPSK	135	0	11.01			12.5
100	PI2 BPSK	135	69	11.13			12.5
100	PI2 BPSK	135	138	11.14			12.5
100	PI2 BPSK	270	0	11.00			12.5
100	QPSK	1	1	11.18			
100	QPSK	1	137	11.04			12.5
100	QPSK	1	271	11.00			
100	QPSK	135	0	11.06			
100	QPSK	135	69	11.16			12.5
100	QPSK	135	138	11.10			12.5
100	QPSK	270	0	11.13			12.5
100	16QAM	1	1	11.06			12.5
100	64QAM	1	1	11.16			12.5
100	256QAM	1	1	11.10			12.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	11.02	11.00	11.02	12.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	10.99	11.13	11.12	12.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	10.99	11.12	11.09	12.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	10.98	11.06	11.07	12.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	11.02	11.15	10.99	12.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	11.00	11.00	10.99	12.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	10.93	10.99	11.11	12.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	10.95	11.17	10.98	12.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	11.03	11.16	11.06	12.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	11.10	11.15	11.02	12.5



Part27Q n78_Ant 10									
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	12.00	3499.98				
100	PI2 BPSK	1	137	12.13			12.5	0.0	
100	PI2 BPSK	1	271	12.01					
100	PI2 BPSK	135	0	12.15			12.5	0.0	
100	PI2 BPSK	135	69	12.08			12.5	0.0	
100	PI2 BPSK	135	138	11.88			12.5	0.0	
100	PI2 BPSK	270	0	11.93					
100	QPSK	1	1	12.21					
100	QPSK	1	137	12.18			12.5	0.0	
100	QPSK	1	271	12.02					
100	QPSK	135	0	12.08					
100	QPSK	135	69	12.16			12.5	0.0	
100	QPSK	135	138	12.10			12.5	0.0	
100	QPSK	270	0	12.12			12.5	0.0	
100	16QAM	1	1	12.03			12.5	0.0	
100	64QAM	1	1	11.89			12.5	0.0	
100	256QAM	1	1	11.92			12.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	11.07	11.10	11.05	12.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.00	11.00	11.01	12.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.00	11.00	11.13	12.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.09	11.17	11.08	12.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.07	11.02	11.12	12.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	10.99	11.04	11.05	12.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	10.99	11.04	11.05	12.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.11	11.06	10.97	12.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.05	10.99	11.09	12.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.03	11.04	10.99	12.5	0.0	

Part27Q n78_Ant 10_HPUE									
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	12.00	3499.98				
100	PI2 BPSK	1	137	12.13			12.5	0.0	
100	PI2 BPSK	1	271	12.01					
100	PI2 BPSK	135	0	12.15			12.5	0.0	
100	PI2 BPSK	135	69	12.08			12.5	0.0	
100	PI2 BPSK	135	138	11.88			12.5	0.0	
100	PI2 BPSK	270	0	11.93					
100	QPSK	1	1	12.21					
100	QPSK	1	137	12.18			12.5	0.0	
100	QPSK	1	271	12.02					
100	QPSK	135	0	12.08					
100	QPSK	135	69	12.16			12.5	0.0	
100	QPSK	135	138	12.10			12.5	0.0	
100	QPSK	270	0	12.12			12.5	0.0	
100	16QAM	1	1	12.03			12.5	0.0	
100	64QAM	1	1	11.89			12.5	0.0	
100	256QAM	1	1	11.92			12.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	11.07	11.10	11.05	12.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	11.00	11.00	11.01	12.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	11.00	11.00	11.13	12.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	11.09	11.17	11.08	12.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	11.07	11.02	11.12	12.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	10.99	11.11	11.09	12.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	10.99	11.04	11.05	12.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	11.11	11.06	10.97	12.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	11.05	10.99	11.09	12.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	11.03	11.04	10.99	12.5	0.0	



Reduced Power Mode for DS14

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)				1860	1880	1900			
20	PI2 BPSK	1	1	22.76	22.80	22.74	24.0	0.0	
20	PI2 BPSK	1	53	22.74	22.75	22.74			
20	PI2 BPSK	1	104	22.74	22.78	22.72			
20	PI2 BPSK	50	0	22.76	22.81	22.74	24.0	0.0	
20	PI2 BPSK	50	28	22.88	22.76	22.84	24.0	0.0	
20	PI2 BPSK	50	56	22.75	22.81	22.71	24.0	0.0	
20	PI2 BPSK	100	0	22.74	22.80	22.71			
20	QPSK	1	1	22.82	22.88	22.86			
20	QPSK	1	53	22.79	22.87	22.81	24.0	0.0	
20	QPSK	1	104	22.78	22.84	22.83			
20	QPSK	50	0	22.73	22.83	22.86	24.0	0.0	
20	QPSK	50	28	22.79	22.86	22.75	24.0	0.0	
20	QPSK	50	56	22.78	22.84	22.89	24.0	0.0	
20	QPSK	100	0	22.89	22.75	22.88			
20	16QAM	1	1	22.77	22.85	22.73	24.0	0.0	
20	16QAM	1	1	21.77	22.08	22.02	23.0	1.0	
20	256QAM	1	1	19.85	20.00	19.92	21.0	3.0	
Channel				371000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.72	22.80	22.74	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.78	22.79	22.72	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.78	22.81	22.71	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)				1860	1880	1900			
20	PI2 BPSK	1	1	22.95	22.96	22.92	24.0	0.0	
20	PI2 BPSK	1	53	22.84	22.88	22.74			
20	PI2 BPSK	1	104	22.83	22.85	22.81			
20	PI2 BPSK	50	0	22.32	22.33	22.27	23.5	0.5	
20	PI2 BPSK	50	28	22.76	22.80	22.79	24.0	0.0	
20	PI2 BPSK	50	56	22.19	22.28	22.15	23.5	0.5	
20	PI2 BPSK	100	0	22.26	22.30	22.18			
20	QPSK	1	1	22.92	22.97	22.90			
20	QPSK	1	53	22.84	22.90	22.85	24.0	0.0	
20	QPSK	1	104	22.71	22.83	22.72			
20	QPSK	50	0	21.83	21.85	21.81	23.0	1.0	
20	QPSK	50	28	22.70	22.78	22.72	24.0	0.0	
20	QPSK	50	56	21.83	21.88	21.84	23.0	1.0	
20	QPSK	100	0	21.82	21.87	21.86			
20	16QAM	1	1	21.90	22.02	21.89	23.0	1.0	
20	16QAM	1	1	20.44	20.59	20.51	21.5	2.5	
20	256QAM	1	1	18.40	18.50	18.38	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	1	22.78	22.86	22.85	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	QPSK	1	1	22.80	22.84	22.80	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	QPSK	1	1	22.90	22.92	22.77	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				166000	167000	167800			
Frequency (MHz)				830	835	840			
20	PI2 BPSK	1	1	22.89	22.96	22.76	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.84	22.79			
20	PI2 BPSK	1	104	22.81	22.90	22.79			
20	PI2 BPSK	50	0	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.83	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.78	24.0	0.0	
20	PI2 BPSK	100	0	22.78	22.81	22.72			
20	QPSK	1	1	22.92	22.97	22.90			
20	QPSK	1	53	22.81	22.78	22.73	24.0	0.0	
20	QPSK	1	104	22.83	22.79	22.72			
20	QPSK	50	0	22.78	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.78	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.88	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.88			
20	16QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	16QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				165300	167000	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				811.5	815	818.5			
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				165800	167000	168000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	835	841			
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				166300	167000	168000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	835	841.5			
5	QPSK	1	1	22.84	22.83	22.78	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	PI2 BPSK	1	1	22.70	22.72	22.63				
20	PI2 BPSK	1	53	22.67	22.75	22.68	24.0	0.0		
20	PI2 BPSK	1	104	22.70	22.73	22.63				
20	PI2 BPSK	50	0	22.50	22.71	22.52	24.0	0.0		
20	PI2 BPSK	50	28	22.67	22.75	22.60	24.0	0.0		
20	PI2 BPSK	50	56	22.58	22.71	22.58				
20	PI2 BPSK	100	0	22.58	22.64	22.55	24.0	0.0		
20	QPSK	1	1	22.73	22.76	22.65				
20	QPSK	1	53	22.61	22.66	22.50	24.0	0.0		
20	QPSK	1	104	22.57	22.68	22.50				
20	QPSK	50	0	22.61	22.68	22.52	24.0	0.0		
20	QPSK	50	28	22.62	22.72	22.57	24.0	0.0		
20	QPSK	50	56	22.61	22.67	22.50	24.0	0.0		
20	QPSK	100	0	22.60	22.64	22.49				
20	16QAM	1	1	22.63	22.61	22.65	24.0	0.0		
20	64QAM	1	1	21.34	21.45	21.37	22.5	1.5		
20	256QAM	1	1	19.33	19.36	19.28	20.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.66	22.73	22.55	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.63	22.73	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.63	22.72	22.49	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	22.86	23.03	22.97				
40	PI2 BPSK	1	108	22.80	23.02	22.89	24.0	0.0		
40	PI2 BPSK	1	214	22.73	22.97	22.91				
40	PI2 BPSK	108	0	22.32	22.55	22.54	23.5	0.5		
40	PI2 BPSK	108	54	22.61	22.84	22.71	24.0	0.0		
40	PI2 BPSK	108	108	22.14	22.45	22.42				
40	PI2 BPSK	216	0	22.31	22.52	22.46	23.5	0.5		
40	QPSK	1	1	22.93	23.05	22.95				
40	QPSK	1	108	22.74	23.00	22.97	24.0	0.0		
40	QPSK	1	214	22.74	22.99	22.95				
40	QPSK	108	0	21.81	22.05	22.03	23.0	1.0		
40	QPSK	108	54	22.50	22.83	22.51	24.0	0.0		
40	QPSK	108	108	21.72	21.96	21.88	23.0	1.0		
40	QPSK	216	0	21.83	22.08	22.01				
40	16QAM	1	1	21.87	22.10	21.95	23.0	1.0		
40	64QAM	1	1	20.52	20.77	20.68	21.5	2.5		
40	256QAM	1	1	18.62	18.65	18.76	19.5	4.5		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.71	22.99	22.90	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.79	23.02	23.04	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.67	22.89	22.91	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.65	23.09	23.02	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.71	23.03	22.93	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.67	23.00	23.04	24.0	0.0		

n7_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)										
40	PI2 BPSK	1	1	23.03	23.05	23.01				
40	PI2 BPSK	1	108	23.00	23.02	22.98	24.0	0.0		
40	PI2 BPSK	1	214	23.02	23.04	22.92				
40	PI2 BPSK	108	0	22.99	22.98	22.98	24.0	0.0		
40	PI2 BPSK	108	54	22.98	23.02	22.99	24.0	0.0		
40	PI2 BPSK	108	108	22.92	22.92	22.92				
40	PI2 BPSK	216	0	22.90	23.01	22.88	24.0	0.0		
40	QPSK	1	1	23.01	23.07	23.02				
40	QPSK	1	108	22.95	22.97	22.89	24.0	0.0		
40	QPSK	1	214	22.93	22.93	22.96				
40	QPSK	108	0	22.87	22.94	22.93	24.0	0.0		
40	QPSK	108	54	22.91	22.98	22.95	24.0	0.0		
40	QPSK	108	108	22.87	22.93	22.94	24.0	0.0		
40	QPSK	216	0	22.86	22.93	22.86				
40	16QAM	1	1	22.92	22.98	22.98	24.0	0.0		
40	64QAM	1	1	21.79	21.89	21.76	23.0	1.0		
40	256QAM	1	1	20.38	20.46	20.43	21.0	3.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.92	22.96	22.94	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.90	22.95	22.95	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.88	22.94	22.89	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.91	22.94	22.96	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.94	22.96	22.93	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.92	22.99	22.97	24.0	0.0		



n12_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)										
15	PI2 BPSK	1	1	22.89	22.90	22.87				
15	PI2 BPSK	1	40	22.87	22.83	22.77	24.0	0.0		
15	PI2 BPSK	1	77	22.78	22.87	22.84				
15	PI2 BPSK	36	0	22.80	22.80	22.69	24.0	0.0		
15	PI2 BPSK	36	22	22.81	22.88	22.78	24.0	0.0		
15	PI2 BPSK	36	43	22.71	22.81	22.75				
15	PI2 BPSK	12	0	22.74	22.85	22.71	24.0	0.0		
15	QPSK	1	1	22.85	22.82	22.82				
15	QPSK	1	40	22.71	22.86	22.72	24.0	0.0		
15	QPSK	1	77	22.74	22.77	22.70				
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0		
15	QPSK	36	22	22.71	22.83	22.73	24.0	0.0		
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0		
15	QPSK	75	0	22.76	22.77	22.76				
15	16QAM	1	1	22.78	22.83	22.76	24.0	0.0		
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5		
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0		

n12_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)										
15	PI2 BPSK	1	1	23.31	23.36	23.34				
15	PI2 BPSK	1	40	23.23	23.31	23.23	24.0	0.0		
15	PI2 BPSK	1	77	23.26	23.33	23.31				
15	PI2 BPSK	36	0	23.20	23.30	23.23	24.0	0.0		
15	PI2 BPSK	36	22	23.22	23.33	23.25	24.0	0.0		
15	PI2 BPSK	36	43	23.11	23.24	23.17				
15	PI2 BPSK	12	0	23.21	23.30	23.17	24.0	0.0		
15	QPSK	1	1	23.27	23.37	23.30				
15	QPSK	1	40	23.16	23.22	23.19	24.0	0.0		
15	QPSK	1	77	23.11	23.27	23.18				
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0		
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0		
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0		
15	QPSK	75	0	23.12	23.29	23.23				
15	16QAM	1	1	23.19	23.32	23.15	24.0	0.0		
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.5		
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.18	23.32	23.23	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0		

n14_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)										
10	PI2 BPSK	1	1	22.92						
10	PI2 BPSK	1	26	22.91			24.0	0.0		
10	PI2 BPSK	1	55	22.89						
10	PI2 BPSK	25	0	22.82			24.0	0.0		
10	PI2 BPSK	25	14	22.81			24.0	0.0		
10	PI2 BPSK	25	27	22.82						
10	PI2 BPSK	50	0	22.80			24.0	0.0		
10	QPSK	1	1	22.83						
10	QPSK	1	26	22.84			24.0	0.0		
10	QPSK	1	50	22.89						
10	QPSK	25	0	22.83			24.0	0.0		
10	QPSK	25	14	22.85			24.0	0.0		
10	QPSK	25	27	22.80						
10	QPSK	50	0	22.84			24.0	0.0		
10	16QAM	1	1	22.86			24.0	0.0		
10	64QAM	1	1	22.22			23.0	1.0		
10	256QAM	1	1	20.05			21.0	3.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0		



n14_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)									
10	PI2 BPSK	1	1	22.60	22.54	22.54	24.0	0.0	
10	PI2 BPSK	1	26	22.54	22.54	22.54	24.0	0.0	
10	PI2 BPSK	25	0	22.51	22.51	22.51	24.0	0.0	
10	PI2 BPSK	25	14	22.53	22.53	22.53	24.0	0.0	
10	PI2 BPSK	25	27	22.49	22.49	22.49	24.0	0.0	
10	PI2 BPSK	50	0	22.51	22.51	22.51	24.0	0.0	
10	QPSK	1	1	22.52	22.52	22.52	24.0	0.0	
10	QPSK	1	26	22.50	22.50	22.50	24.0	0.0	
10	QPSK	1	50	22.55	22.55	22.55	24.0	0.0	
10	QPSK	25	0	22.49	22.49	22.49	24.0	0.0	
10	QPSK	25	14	22.57	22.57	22.57	24.0	0.0	
10	QPSK	25	27	22.50	22.50	22.50	24.0	0.0	
10	QPSK	50	0	22.54	22.54	22.54	24.0	0.0	
10	64QAM	1	1	22.49	22.49	22.49	23.0	1.0	
10	64QAM	1	1	22.00	22.00	22.00	23.0	1.0	
10	256QAM	1	1	19.89	19.89	19.89	21.0	3.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.52	22.51	22.58	24.0	0.0	

n25_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	22.87	22.80	22.87	24.0	0.0	
40	PI2 BPSK	1	108	22.82	22.80	22.83	24.0	0.0	
40	PI2 BPSK	1	214	22.86	22.82	22.83	24.0	0.0	
40	PI2 BPSK	108	0	22.74	22.88	22.88	24.0	0.0	
40	PI2 BPSK	108	54	22.76	22.89	22.77	24.0	0.0	
40	PI2 BPSK	108	108	22.75	22.83	22.87	24.0	0.0	
40	PI2 BPSK	216	0	22.85	22.78	22.74	24.0	0.0	
40	QPSK	1	1	22.82	22.82	22.78	24.0	0.0	
40	QPSK	1	108	22.76	22.84	22.69	24.0	0.0	
40	QPSK	1	214	22.71	22.78	22.72	24.0	0.0	
40	QPSK	108	0	22.69	22.82	22.87	24.0	0.0	
40	QPSK	108	54	22.72	22.83	22.73	24.0	0.0	
40	QPSK	108	108	22.70	22.78	22.72	24.0	0.0	
40	QPSK	216	0	22.73	22.80	22.73	24.0	0.0	
40	16QAM	1	1	22.72	22.82	22.66	24.0	0.0	
40	64QAM	1	1	21.58	21.65	21.59	22.5	1.5	
40	256QAM	1	1	19.67	19.68	19.63	20.5	3.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	22.69	22.80	22.69	24.0	0.0	MPR
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.70	22.75	22.69	24.0	0.0	MPR
Channel									
Frequency (MHz)									
25	QPSK	1	1	182.5	182.5	182.5	24.0	0.0	MPR
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.73	22.84	22.72	24.0	0.0	MPR
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.73	22.82	22.76	24.0	0.0	MPR
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.69	22.88	22.73	24.0	0.0	MPR
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.75	22.85	22.71	24.0	0.0	MPR

n25_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	22.15	22.19	22.12	24.0	0.0	
40	PI2 BPSK	1	108	22.05	22.10	22.05	24.0	0.0	
40	PI2 BPSK	1	214	22.12	22.18	22.06	24.0	0.0	
40	PI2 BPSK	108	0	21.55	21.87	21.55	23.5	0.5	
40	PI2 BPSK	108	54	22.01	22.03	22.09	24.0	0.0	
40	PI2 BPSK	108	108	21.61	21.70	21.67	23.5	0.5	
40	PI2 BPSK	216	0	21.67	21.72	21.57	24.0	0.0	
40	QPSK	1	1	22.12	22.22	22.05	24.0	0.0	
40	QPSK	1	108	22.07	22.08	22.03	24.0	0.0	
40	QPSK	1	214	22.05	22.16	22.01	24.0	0.0	
40	QPSK	108	0	21.11	21.10	21.08	23.0	1.0	
40	QPSK	108	54	22.05	22.11	22.03	24.0	0.0	
40	QPSK	108	108	21.08	21.15	21.12	23.0	1.0	
40	QPSK	216	0	21.04	21.13	21.10	23.0	1.0	
40	16QAM	1	1	21.27	21.34	21.19	23.0	1.0	
40	64QAM	1	1	19.82	19.85	19.84	21.5	2.5	
40	256QAM	1	1	17.75	17.89	17.74	19.5	4.5	
Channel									
Frequency (MHz)									
35	QPSK	1	1	21.99	22.07	22.01	24.0	0.0	MPR
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.02	22.14	22.01	24.0	0.0	MPR
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.07	22.07	22.03	24.0	0.0	MPR
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.10	22.17	22.03	24.0	0.0	MPR
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.09	22.06	22.01	24.0	0.0	MPR
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.08	22.09	22.02	24.0	0.0	MPR
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.04	22.16	21.94	24.0	0.0	MPR



n26_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)	MSR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.83	22.87			
20	PI2 BPSK	1	104	22.86	22.78	22.88			
20	PI2 BPSK	50	0	22.85	22.85	22.85	24.0	0.0	
20	PI2 BPSK	50	26	22.92	22.90	22.84	24.0	0.0	
20	PI2 BPSK	50	56	22.87	22.86	22.86	24.0	0.0	
20	PI2 BPSK	100	0	22.86	22.86	22.81	24.0	0.0	
20	QPSK	1	1	22.95	22.95	23.02			
20	QPSK	1	53	22.96	22.81	22.86			
20	QPSK	1	104	22.90	22.88	22.83	24.0	0.0	
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	26	22.87	22.85	22.88	24.0	0.0	
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.86	22.78	22.83	24.0	0.0	
20	16QAM	1	1	22.96	22.85	22.85	24.0	0.0	
20	16QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.92	22.86	22.86	24.0	0.0	

n26_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)	MSR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.86	22.88	22.87	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.78	22.80			
20	PI2 BPSK	1	104	22.90	22.78	22.81			
20	PI2 BPSK	50	0	22.85	22.87	22.85	24.0	0.0	
20	PI2 BPSK	50	26	22.80	22.85	22.82	24.0	0.0	
20	PI2 BPSK	50	56	22.85	22.80	22.81	24.0	0.0	
20	PI2 BPSK	100	0	22.80	22.82	22.85	24.0	0.0	
20	QPSK	1	1	22.95	22.97	23.00			
20	QPSK	1	53	22.95	22.82	22.82			
20	QPSK	1	104	22.94	22.87	22.83	24.0	0.0	
20	QPSK	50	0	22.85	22.81	22.88	24.0	0.0	
20	QPSK	50	26	22.90	22.85	22.95	24.0	0.0	
20	QPSK	50	56	22.83	22.87	22.81	24.0	0.0	
20	QPSK	100	0	22.85	22.84	22.86	24.0	0.0	
20	16QAM	1	1	22.93	22.87	22.80	24.0	0.0	
20	16QAM	1	1	21.56	21.56	21.63	23.0	1.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.88	22.86	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.85	22.87	22.80	24.0	0.0	



n30_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up (m)	MFR (dB)	
Channel				46000					
Frequency (MHz)				2193					
10	PI2 BPSK	1	1	22.02			24.0	0.0	
10	PI2 BPSK	1	26	22.00					
10	PI2 BPSK	1	50	21.94					
10	PI2 BPSK	25	0	21.40			23.5	0.5	
10	PI2 BPSK	25	14	21.88			24.0	0.0	
10	PI2 BPSK	25	27	21.39			23.5	0.5	
10	PI2 BPSK	50	0	21.42					
10	QPSK	1	1	22.05			24.0	0.0	
10	QPSK	1	26	22.03					
10	QPSK	1	50	21.96					
10	QPSK	25	0	20.99			23.0	1.0	
10	QPSK	25	14	22.04			24.0	0.0	
10	QPSK	25	27	20.94			23.0	1.0	
10	QPSK	50	0	21.03			23.0	1.0	
10	16QAM	1	1	21.18			23.0	1.0	
10	64QAM	1	1	19.75			21.5	2.5	
10	256QAM	1	1	17.61			19.5	4.5	
Channel				46100					
Frequency (MHz)				2197.5					
5	QPSK	1	1	21.81	21.85	21.91	24.0	0.0	

n30_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up (m)	MFR (dB)	
Channel				46000					
Frequency (MHz)				2193					
10	PI2 BPSK	1	1	23.02			24.0	0.0	
10	PI2 BPSK	1	26	23.00					
10	PI2 BPSK	1	50	22.96					
10	PI2 BPSK	25	0	22.96			24.0	0.0	
10	PI2 BPSK	25	14	23.01			24.0	0.0	
10	PI2 BPSK	25	27	22.97			24.0	0.0	
10	PI2 BPSK	50	0	22.97					
10	QPSK	1	1	23.03			24.0	0.0	
10	QPSK	1	26	22.97					
10	QPSK	1	50	22.94					
10	QPSK	25	0	22.97			24.0	0.0	
10	QPSK	25	14	22.98			24.0	0.0	
10	QPSK	25	27	22.92			24.0	0.0	
10	QPSK	50	0	22.93			24.0	0.0	
10	16QAM	1	1	22.91			23.0	1.0	
10	64QAM	1	1	22.44			23.0	1.0	
10	256QAM	1	1	20.25			21.0	3.0	
Channel				46100					
Frequency (MHz)				2197.5					
5	QPSK	1	1	22.97	22.99	22.98	24.0	0.0	



n66_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	22.91	23.01	22.98		
40	PI2 BPSK	1	108	22.98	22.95	22.89	24.0	0.0
40	PI2 BPSK	1	214	22.98	23.00	22.92		
40	PI2 BPSK	108	0	22.89	22.94	22.95	24.0	0.0
40	PI2 BPSK	108	54	23.00	23.04	22.89	24.0	0.0
40	PI2 BPSK	108	108	22.84	22.94	22.90		
40	PI2 BPSK	216	0	22.89	22.97	22.89	24.0	0.0
40	QPSK	1	1	23.05	23.10	23.01		
40	QPSK	1	108	23.01	23.03	22.99	24.0	0.0
40	QPSK	1	214	22.89	22.95	22.91		
40	QPSK	108	0	22.89	22.91	22.89	24.0	0.0
40	QPSK	108	54	22.93	22.98	22.95	24.0	0.0
40	QPSK	108	108	22.91	22.98	22.90	24.0	0.0
40	QPSK	216	0	22.92	23.01	22.94		
40	16QAM	1	1	22.90	22.99	22.97	24.0	0.0
40	64QAM	1	1	22.12	22.25	22.17	23.0	1.0
40	256QAM	1	1	20.17	20.23	20.22	21.0	3.0
Channel								
Frequency (MHz)								
35	QPSK	1	1	22.94	22.97	22.96	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.92	22.95	22.92	24.0	0.0
Channel								
Frequency (MHz)								
34500	QPSK	1	1	34500	34900	35300	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
25	QPSK	1	1	22.92	23.02	22.92	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.96	22.93	22.90	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.96	22.94	22.89	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.97	22.99	22.90	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.90	23.01	22.93	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)								
40	PI2 BPSK	1	1	23.29	23.32	23.30		
40	PI2 BPSK	1	108	23.18	23.28	23.13	24.0	0.0
40	PI2 BPSK	1	214	23.27	23.33	23.29		
40	PI2 BPSK	108	0	22.82	22.75	22.69	23.5	0.5
40	PI2 BPSK	108	54	23.12	23.23	23.21	24.0	0.0
40	PI2 BPSK	108	108	22.64	22.77	22.64		
40	PI2 BPSK	216	0	22.74	22.80	22.70	23.5	0.5
40	QPSK	1	1	23.25	23.35	23.33		
40	QPSK	1	108	23.23	23.25	23.15	24.0	0.0
40	QPSK	1	214	23.18	23.30	23.26		
40	QPSK	108	0	22.86	22.20	22.12	23.0	1.0
40	QPSK	108	54	23.22	23.29	23.25	24.0	0.0
40	QPSK	108	108	22.27	22.32	22.28	23.0	1.0
40	QPSK	216	0	22.32	22.33	22.19		
40	16QAM	1	1	22.24	22.30	22.28	23.0	1.0
40	64QAM	1	1	20.70	20.90	20.80	21.5	2.5
40	256QAM	1	1	18.84	18.98	18.83	19.5	4.5
Channel								
Frequency (MHz)								
35	QPSK	1	1	23.12	23.31	23.25	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.24	23.25	23.20	24.0	0.0
Channel								
Frequency (MHz)								
34400	QPSK	1	1	34400	34900	35300	Tune-up limit (dB)	MPR
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.24	23.34	23.21	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.17	23.33	23.23	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.12	23.21	23.24	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.11	23.27	23.19	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	23.15	23.27	23.50	24.0	0.0

n70_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)								
15	PI2 BPSK	1	1	22.72				
15	PI2 BPSK	1	40	22.70			24.0	0.0
15	PI2 BPSK	1	77	22.68				
15	PI2 BPSK	36	0	22.64			24.0	0.0
15	PI2 BPSK	36	22	22.70			24.0	0.0
15	PI2 BPSK	36	43	22.62			24.0	0.0
15	PI2 BPSK	75	0	22.65				
15	QPSK	1	1	22.77				
15	QPSK	1	40	22.68			24.0	0.0
15	QPSK	1	77	22.61				
15	QPSK	36	0	22.64			24.0	0.0
15	QPSK	36	22	22.67			24.0	0.0
15	QPSK	36	43	22.63			24.0	0.0
15	QPSK	75	0	22.63			24.0	0.0
15	16QAM	1	1	22.61			24.0	0.0
15	64QAM	1	1	22.52			23.5	0.5
15	256QAM	1	1	20.35			21.5	2.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.59	22.61	22.67	24.0	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.67	22.67	22.63	24.0	0.0



n70_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)										
15	PI2 BPSK	1	1	23.40			24.0	0.0		
15	PI2 BPSK	1	40	23.35						
15	PI2 BPSK	1	77	23.18			23.5	0.5		
15	PI2 BPSK	36	0	22.70						
15	PI2 BPSK	36	22	23.24			24.0	0.0		
15	PI2 BPSK	36	43	22.66			23.5	0.5		
15	PI2 BPSK	12	0	22.65						
15	QPSK	1	1	23.41			24.0	0.0		
15	QPSK	1	40	23.38						
15	QPSK	1	77	23.20			23.0	1.0		
15	QPSK	36	0	22.20						
15	QPSK	36	22	23.21			24.0	0.0		
15	QPSK	36	43	22.18			23.0	1.0		
15	QPSK	75	0	22.12						
15	16QAM	1	1	22.50			23.0	1.0		
15	64QAM	1	1	20.95			21.5	2.5		
15	256QAM	1	1	18.98			19.5	4.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	33.000	34.000	34.100	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.31	23.33	23.35	24.0	0.0		

n71_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)										
30	PI2 BPSK	1	1	23.08	23.09	23.03	24.0	0.0		
30	PI2 BPSK	1	80	23.01	23.04	22.92				
30	PI2 BPSK	1	158	23.00	23.08	23.01	24.0	0.0		
30	PI2 BPSK	80	0	22.96	23.01	22.91				
30	PI2 BPSK	80	40	22.99	23.03	23.01	24.0	0.0		
30	PI2 BPSK	80	80	22.91	23.02	22.92	24.0	0.0		
30	PI2 BPSK	160	0	22.95	22.99	22.98				
30	QPSK	1	1	23.08	23.10	23.01	24.0	0.0		
30	QPSK	1	80	22.94	22.98	22.93				
30	QPSK	1	158	22.88	23.02	22.97	24.0	0.0		
30	QPSK	80	0	22.85	22.93	22.91				
30	QPSK	80	40	22.91	22.95	22.93	24.0	0.0		
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0		
30	QPSK	160	0	22.91	22.95	22.96				
30	16QAM	1	1	22.80	22.93	22.93	24.0	0.0		
30	64QAM	1	1	22.40	22.55	22.41	23.0	1.0		
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	22.83	22.97	22.98	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	134100	136100	138100	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.80	22.89	22.92	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.96	22.92	22.98	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0		

n71_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)										
30	PI2 BPSK	1	1	23.08	23.13	23.13	24.0	0.0		
30	PI2 BPSK	1	80	23.15	23.16	23.10				
30	PI2 BPSK	1	158	23.18	23.24	23.20	24.0	0.0		
30	PI2 BPSK	80	0	23.15	23.19	23.17				
30	PI2 BPSK	80	40	23.18	23.25	23.20	24.0	0.0		
30	PI2 BPSK	80	80	23.08	23.10	23.17	24.0	0.0		
30	PI2 BPSK	160	0	23.15	23.19	23.18				
30	QPSK	1	1	23.23	23.29	23.24	24.0	0.0		
30	QPSK	1	80	23.20	23.18	23.13				
30	QPSK	1	158	23.16	23.11	23.09	24.0	0.0		
30	QPSK	80	0	23.09	23.09	23.11				
30	QPSK	80	40	23.13	23.19	23.17	24.0	0.0		
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0		
30	QPSK	160	0	23.08	23.10	23.06				
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0		
30	64QAM	1	1	21.97	22.03	21.98	23.0	1.0		
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	134100	136100	138100	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0		



n38_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)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	22.83	22.88	22.91		
40	PI2 BPSK	1	53	22.86	22.85	22.84	24.0	0.0
40	PI2 BPSK	1	104	22.83	22.86	22.87		
40	PI2 BPSK	50	0	22.82	22.85	22.81	24.0	0.0
40	PI2 BPSK	50	28	22.84	22.85	22.83	24.0	0.0
40	PI2 BPSK	50	56	22.86	22.87	22.85		
40	PI2 BPSK	100	0	22.79	22.83	22.88	24.0	0.0
40	QPSK	1	1	22.90	22.95	22.92		
40	QPSK	1	53	22.86	22.90	22.84	24.0	0.0
40	QPSK	1	104	22.83	22.18	22.16		
40	QPSK	50	0	21.83	21.96	21.94		
40	QPSK	50	28	21.86	21.88	21.87	24.0	0.0
40	QPSK	50	56	21.88	21.80	21.84		
40	QPSK	100	0	21.85	21.70	21.65	23.0	1.0
40	16QAM	1	1	21.90	21.93	21.90	23.0	1.0
40	16QAM	1	1	20.83	20.62	20.86	21.5	2.5
40	256QAM	1	1	18.44	18.55	18.43	19.3	4.5
Channel								
Frequency (MHz)				5170.02	5180.00	5199.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	22.87	22.81	22.83	24.0	0.0
Channel								
Frequency (MHz)				5180.00	5190.00	5200.00	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.81	22.83	22.84	24.0	0.0
Channel								
Frequency (MHz)				5200.00	5205	5205	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.86	22.82	22.83	24.0	0.0
Channel								
Frequency (MHz)				5190.02	5195	5194.98	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.82	22.86	22.80	24.0	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)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	23.04	23.10	22.99		
40	PI2 BPSK	1	53	22.93	23.10	22.92	24.0	0.0
40	PI2 BPSK	1	104	22.95	23.10	22.91		
40	PI2 BPSK	50	0	23.01	23.04	22.91	24.0	0.0
40	PI2 BPSK	50	28	23.06	23.12	22.97	24.0	0.0
40	PI2 BPSK	50	56	22.96	23.10	22.93		
40	PI2 BPSK	100	0	22.96	23.09	22.97	24.0	0.0
40	QPSK	1	1	23.05	23.13	23.01		
40	QPSK	1	53	22.96	23.06	22.90	24.0	0.0
40	QPSK	1	104	22.97	23.06	22.93		
40	QPSK	50	0	22.97	23.04	22.93		
40	QPSK	50	28	22.98	23.08	22.96	24.0	0.0
40	QPSK	50	56	22.98	23.07	22.89		
40	QPSK	100	0	23.01	23.06	22.96	24.0	0.0
40	16QAM	1	1	22.93	23.06	22.97	24.0	0.0
40	16QAM	1	1	22.71	22.72	22.57	23.5	0.5
40	256QAM	1	1	20.51	20.84	20.82	21.5	2.5
Channel								
Frequency (MHz)				5170.02	5180.00	5199.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.02	23.05	22.95	24.0	0.0
Channel								
Frequency (MHz)				5180.00	5190.00	5200.00	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	22.96	23.13	22.97	24.0	0.0
Channel								
Frequency (MHz)				5190.02	5195	5194.98	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	22.95	23.04	22.94	24.0	0.0
Channel								
Frequency (MHz)				5180.04	5190.00	5200.00	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	22.97	23.05	22.96	24.0	0.0

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)				2546.01	2552.00	2558.00		
100	PI2 BPSK	1	1	23.14	23.21	23.02		
100	PI2 BPSK	1	137	23.06	23.15	23.00	24.0	0.0
100	PI2 BPSK	1	271	23.01	23.06	22.74		
100	PI2 BPSK	135	0	23.03	23.08	23.00	24.0	0.0
100	PI2 BPSK	135	69	23.05	23.13	23.03	24.0	0.0
100	PI2 BPSK	135	138	22.89	22.91	22.64		
100	PI2 BPSK	270	0	22.84	22.96	22.92	24.0	0.0
100	QPSK	1	1	23.20	23.22	23.02		
100	QPSK	1	137	22.95	23.11	22.98	24.0	0.0
100	QPSK	1	271	22.95	22.97	22.81		
100	QPSK	135	0	22.91	22.95	22.78		
100	QPSK	135	69	23.01	23.10	22.83	24.0	0.0
100	QPSK	135	138	22.89	22.91	22.59		
100	QPSK	270	0	22.91	22.94	22.84	24.0	0.0
100	16QAM	1	1	22.80	22.81	22.74	24.0	0.0
100	16QAM	1	1	22.81	22.87	22.80	23.5	0.5
100	256QAM	1	1	20.89	20.82	20.70	21.5	2.5
Channel								
Frequency (MHz)				5060.00	5188.00	5296.00	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	23.07	23.00	22.96	24.0	0.0
Channel								
Frequency (MHz)				5070.04	5188.00	5296.00	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.10	23.14	22.98	24.0	0.0
Channel								
Frequency (MHz)				5201.01	5292.99	2601.98	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	22.91	22.95	22.84	24.0	0.0
Channel								
Frequency (MHz)				5060.00	5188.00	5296.00	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	23.09	23.20	22.96	24.0	0.0
Channel								
Frequency (MHz)				2546.01	2552.00	2558.00	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.06	23.13	22.88	24.0	0.0
Channel								
Frequency (MHz)				5050.02	5188.00	5300.00	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.08	23.20	22.97	24.0	0.0
Channel								
Frequency (MHz)				2611	2602.99	2614.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.11	23.13	22.93	24.0	0.0
Channel								
Frequency (MHz)				5070.04	5188.00	5296.00	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.08	23.17	22.95	24.0	0.0
Channel								
Frequency (MHz)				5007.00	5188.00	5364.98	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.05	23.09	22.83	24.0	0.0
Channel								
Frequency (MHz)				5060.02	5188.00	5370.00	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.07	23.16	22.94	24.0	0.0



n41_Ant 1_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.		
Channel				509202	518998	528990		
Frequency (MHz)				2548.01	2592.99	2640		
100	PI2 BPSK	1	1	25.13	25.21	25.11		
100	PI2 BPSK	1	137	25.30	25.34	25.25	27.0	0.0
100	PI2 BPSK	1	271	25.11	25.12	25.08		
100	PI2 BPSK	135	0	24.77	24.80	24.76	26.5	0.5
100	PI2 BPSK	135	69	25.33	25.34	25.30	27.0	0.0
100	PI2 BPSK	135	138	24.50	24.55	24.53	26.5	0.5
100	PI2 BPSK	270	0	24.71	24.78	24.71		
100	QPSK	1	1	25.25	25.35	25.25		
100	QPSK	1	137	25.25	25.30	25.21	27.0	0.0
100	QPSK	1	271	24.72	24.81	24.71		
100	QPSK	135	0	24.08	24.17	24.16		
100	QPSK	135	69	25.30	25.32	25.24	27.0	0.0
100	QPSK	135	138	24.07	24.10	24.00		
100	QPSK	270	0	24.28	24.31	24.28	26.0	1.0
100	16QAM	1	1	24.39	24.43	24.37	26.0	1.0
100	64QAM	1	1	22.77	22.87	22.89	24.5	2.5
100	256QAM	1	1	20.86	20.89	20.78	22.5	4.5
Channel				508200	518998	528996		
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	25.06	25.12	25.15	27.0	0.0
Channel				507204	518998	528998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	25.06	25.15	25.08	27.0	0.0
Channel				506200	518998	528998		
Frequency (MHz)				2531.01	2592.99	2656		
70	QPSK	1	1	25.09	25.20	25.12	27.0	0.0
Channel				505200	518998	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	25.11	25.16	25.15	27.0	0.0
Channel				504204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.10	25.16	25.11	27.0	0.0
Channel				503202	518998	536000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.09	25.20	25.10	27.0	0.0
Channel				502200	518998	535998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.11	25.20	25.15	27.0	0.0
Channel				501204	518998	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	25.08	25.16	25.13	27.0	0.0
Channel				500700	518998	538498		
Frequency (MHz)				2503.5	2592.99	2683.48		
15	QPSK	1	1	25.11	25.12	25.15	27.0	0.0
Channel				500202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	25.07	25.10	25.11	27.0	0.0



n41_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.31	20.44	20.29		
100	PI2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0
100	PI2 BPSK	1	271	20.21	20.27	20.22		
100	PI2 BPSK	155	0	20.16	20.28	20.20	22.0	0.0
100	PI2 BPSK	155	69	20.15	20.21	20.11	22.0	0.0
100	PI2 BPSK	155	138	20.11	20.23	20.21		
100	PI2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0
100	QPSK	1	1	20.34	20.49	20.34		
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0
100	QPSK	1	271	20.05	20.24	20.19		
100	QPSK	155	0	20.15	20.31	20.13		
100	QPSK	155	69	20.08	20.38	20.28	22.0	0.0
100	QPSK	155	138	20.05	20.11	20.08		
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0
100	64QAM	1	1	18.92	20.04	20.06	21.5	0.5
100	256QAM	1	1	18.02	18.26	18.11	20.0	2.0
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
80	QPSK	1	1	20.23	20.41	20.20	22.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0
Channel				503000	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2692.99	2655	(dBm)	(dB)
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0
Channel				502000	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2692.99	2658.98	(dBm)	(dB)
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0
Channel				504204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2621.02	2692.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0
Channel				505002	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2616.01	2692.99	2670	(dBm)	(dB)
40	QPSK	1	1	20.25	20.45	20.33	22.0	0.0
Channel				502000	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0
Channel				507204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2606.02	2692.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2601.5	2692.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2601.01	2692.99	2685	(dBm)	(dB)
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0

n41_Ant 2_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506002	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.43	22.48	22.22		
100	PI2 BPSK	1	137	22.08	22.22	22.16	24.0	0.0
100	PI2 BPSK	1	271	22.19	22.23	22.21		
100	PI2 BPSK	155	0	21.88	21.99	21.88	23.5	0.5
100	PI2 BPSK	155	69	22.08	22.10	22.08	24.0	0.0
100	PI2 BPSK	155	138	21.75	21.89	21.69		
100	PI2 BPSK	270	0	21.75	21.88	21.74	23.5	0.5
100	QPSK	1	1	22.60	22.51	22.44		
100	QPSK	1	137	22.28	22.37	22.31	24.0	0.0
100	QPSK	1	271	22.08	22.18	22.12		
100	QPSK	155	0	21.83	21.92	21.83		
100	QPSK	155	69	22.07	22.06	22.07	24.0	0.0
100	QPSK	155	138	21.45	21.46	21.34		
100	QPSK	270	0	21.31	21.35	21.29	23.0	1.0
100	16QAM	1	1	21.88	21.83	21.68	23.0	1.0
100	64QAM	1	1	20.91	20.92	20.29	21.5	2.5
100	256QAM	1	1	18.12	18.21	18.19	19.5	4.5
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
80	QPSK	1	1	22.35	22.35	22.12	24.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	22.36	22.43	22.11	24.0	0.0
Channel				503000	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2692.99	2655	(dBm)	(dB)
70	QPSK	1	1	22.34	22.41	22.12	24.0	0.0
Channel				502000	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2692.99	2658.98	(dBm)	(dB)
60	QPSK	1	1	22.37	22.40	22.15	24.0	0.0
Channel				504204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2621.02	2692.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	22.32	22.43	22.18	24.0	0.0
Channel				505002	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2616.01	2692.99	2670	(dBm)	(dB)
40	QPSK	1	1	22.34	22.30	22.21	24.0	0.0
Channel				502000	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	22.42	22.42	22.15	24.0	0.0
Channel				507204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2606.02	2692.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	22.34	22.39	22.18	24.0	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2601.5	2692.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	22.41	22.36	22.17	24.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2601.01	2692.99	2685	(dBm)	(dB)
10	QPSK	1	1	22.37	22.34	22.18	24.0	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)									
100	PI2 BPSK	1	1	23.04	23.10	22.87			
100	PI2 BPSK	1	137	22.97	23.06	22.86	24.0	0.0	
100	PI2 BPSK	1	271	22.81	22.89	22.86			
100	PI2 BPSK	135	0	22.96	23.11	22.86	24.0	0.0	
100	PI2 BPSK	135	69	23.00	23.15	22.80	24.0	0.0	
100	PI2 BPSK	135	138	22.74	22.88	22.80	24.0	0.0	
100	PI2 BPSK	270	0	22.96	23.05	22.84			
100	QPSK	1	1	22.97	23.18	22.84			
100	QPSK	1	137	22.95	23.08	22.83	24.0	0.0	
100	QPSK	1	271	22.90	22.91	22.79			
100	QPSK	135	0	22.92	23.04	22.79			
100	QPSK	135	69	22.74	22.98	22.79	24.0	0.0	
100	QPSK	135	138	22.82	22.73	22.64			
100	QPSK	270	0	22.88	22.72	22.61	24.0	0.0	
100	16QAM	1	1	22.91	23.07	22.86	24.0	0.0	
100	64QAM	1	1	21.85	21.91	21.86	22.5	1.5	
100	256QAM	1	1	19.85	19.79	19.73	20.5	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.93	23.10	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.98	23.10	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.02	23.05	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.92	23.05	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.99	23.12	22.89	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.95	23.07	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.88	23.06	22.89	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.92	23.05	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.99	23.04	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.80	23.05	22.85	24.0	0.0	

n41_Ant 5_HPUE									
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	24.23	24.27	24.20			
100	PI2 BPSK	1	137	24.10	24.12	24.11	26.0	0.0	
100	PI2 BPSK	1	271	24.07	24.14	24.07			
100	PI2 BPSK	135	0	23.69	23.75	23.72	25.5	0.5	
100	PI2 BPSK	135	69	24.02	24.07	24.04	26.0	0.0	
100	PI2 BPSK	135	138	23.50	23.55	23.53	25.5	0.5	
100	PI2 BPSK	270	0	23.59	23.58	23.52			
100	QPSK	1	1	23.35	24.04	24.03			
100	QPSK	1	137	24.15	24.21	24.15	26.0	0.0	
100	QPSK	1	271	24.11	24.18	24.09			
100	QPSK	135	0	23.22	23.24	23.22			
100	QPSK	135	69	23.35	24.43	24.42	26.0	0.0	
100	QPSK	135	138	22.94	22.96	22.94			
100	QPSK	270	0	23.48	23.51	23.41	25.0	1.0	
100	16QAM	1	1	23.56	23.62	23.55	25.0	1.0	
100	64QAM	1	1	22.09	22.09	22.07	23.5	2.5	
100	256QAM	1	1	19.95	19.97	19.91	21.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.40	24.61	24.48	26.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.51	24.57	24.47	26.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.50	24.62	24.51	26.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.47	24.62	24.49	26.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.49	24.59	24.50	26.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.47	24.57	24.52	26.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.46	24.60	24.48	26.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.48	24.58	24.51	26.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.48	24.63	24.48	26.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.40	24.50	24.47	26.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Hgh. Ch. Freq.		
Channel				506202	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.97	21.01	20.91		
100	PI2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PI2 BPSK	1	271	20.93	21.11	20.89		
100	PI2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PI2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PI2 BPSK	135	138	20.76	21.01	20.89	22.5	0.0
100	PI2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.08		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	16QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506200	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.00	21.04	20.91	22.5	0.0
Channel				508200	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2692.99	2655		
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				509200	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2624	2692.99	2659.98		
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	21.09	21.11	20.90	22.5	0.0
Channel				505202	518598	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2616.01	2692.99	2670		
40	QPSK	1	1	21.00	20.99	20.92	22.5	0.0
Channel				506200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2674.98		
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2679.99		
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518598	538498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.5	2692.99	2682.48		
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				506202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2685		
10	QPSK	1	1	21.07	21.03	20.94	22.5	0.0



n41_Ant 6_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Highest Ch. Freq.		
Channel				506002	518998	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.84	22.74	22.67		
100	PI2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0
100	PI2 BPSK	1	271	22.71	22.93	22.61		
100	PI2 BPSK	135	0	22.26	22.14	22.28	24.0	0.5
100	PI2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0
100	PI2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5
100	PI2 BPSK	270	0	22.26	22.19	22.28		
100	QPSK	1	1	22.81	22.88	22.85		
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0
100	QPSK	1	271	22.61	22.48	22.63		
100	QPSK	135	0	21.73	21.75	21.76		
100	QPSK	135	69	22.61	22.67	22.61	24.5	0.0
100	QPSK	135	138	21.62	21.71	21.71		
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0
100	64QAM	1	1	20.48	20.64	20.48	22.0	2.5
100	256QAM	1	1	18.25	18.56	18.31	20.0	4.5
Channel				506000	518998	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	22.83	22.88	22.79	24.5	0.0
Channel				507204	518998	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2648.98		
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0
Channel				508200	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2656		
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0
Channel				509200	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0
Channel				504204	518998	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	22.89	22.94	22.83	24.5	0.0
Channel				505202	518998	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.89	22.94	22.79	24.5	0.0
Channel				506200	518998	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0
Channel				507204	518998	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0
Channel				507000	518998	538400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0
Channel				506202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.84	22.91	22.79	24.5	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				506002	518598	526000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	23.14	23.19	23.02		
100	PI2 BPSK	1	137	23.12	23.09	22.97	24.0	0.0
100	PI2 BPSK	1	271	23.13	23.18	23.01		
100	PI2 BPSK	135	0	23.06	23.13	22.96	24.0	0.0
100	PI2 BPSK	135	69	23.11	23.15	22.95	24.0	0.0
100	PI2 BPSK	135	138	23.05	23.16	22.96	24.0	0.0
100	PI2 BPSK	270	0	23.08	23.11	22.98		
100	QPSK	1	1	23.13	23.21	23.04		
100	QPSK	1	137	23.09	23.09	22.89	24.0	0.0
100	QPSK	1	271	23.04	23.12	22.93		
100	QPSK	135	0	23.06	23.13	22.94		
100	QPSK	135	69	23.09	23.16	22.95	24.0	0.0
100	QPSK	135	138	23.08	23.10	22.91		
100	QPSK	270	0	23.09	23.15	22.92	24.0	0.0
100	16QAM	1	1	23.05	23.16	22.89	24.0	0.0
100	64QAM	1	1	23.10	23.07	22.94	24.0	0.0
100	256QAM	1	1	22.42	22.45	22.41	23.5	0.5
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.08	23.11	22.85	24.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2636.02	2692.99	2649.99		
80	QPSK	1	1	23.10	23.09	22.88	24.0	0.0
Channel				2631.01	2692.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2692.99	2655		
70	QPSK	1	1	23.04	23.01	22.85	24.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2692.99	2698.98		
60	QPSK	1	1	23.01	23.11	22.90	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2621.02	2692.99	2698.98		
50	QPSK	1	1	23.10	23.15	22.95	24.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2616.01	2692.99	2670		
40	QPSK	1	1	23.08	23.12	22.90	24.0	0.0
Channel				502000	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2674.98		
30	QPSK	1	1	23.04	23.09	22.90	24.0	0.0
Channel				507204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2606.02	2692.99	2679.99		
20	QPSK	1	1	23.01	23.11	22.91	24.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.01	2692.99	2682.98		
15	QPSK	1	1	23.02	23.09	22.88	24.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2591.01	2692.99	2685		
10	QPSK	1	1	23.05	23.07	22.95	24.0	0.0

n41_Ant 9_HPUE								
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				506002	518598	526000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	25.54	26.03	25.75		
100	PI2 BPSK	1	137	25.97	26.02	25.84	27.0	0.0
100	PI2 BPSK	1	271	26.10	26.05	25.81		
100	PI2 BPSK	135	0	26.00	26.05	25.79	27.0	0.0
100	PI2 BPSK	135	69	26.01	26.05	25.86	27.0	0.0
100	PI2 BPSK	135	138	25.90	25.95	25.79	27.0	0.0
100	PI2 BPSK	270	0	25.99	26.04	25.78		
100	QPSK	1	1	26.15	26.16	25.91		
100	QPSK	1	137	26.07	25.95	25.81	27.0	0.0
100	QPSK	1	271	25.99	25.72	25.62		
100	QPSK	135	0	25.84	25.67	25.63		
100	QPSK	135	69	25.97	26.00	25.76	27.0	0.0
100	QPSK	135	138	25.20	25.21	25.10		
100	QPSK	270	0	25.24	25.34	25.26	26.0	1.0
100	16QAM	1	1	24.21	25.31	25.22	26.0	1.0
100	64QAM	1	1	24.57	24.65	24.53	25.0	2.0
100	256QAM	1	1	22.41	22.49	22.34	23.5	3.5
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.90	25.97	25.75	27.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2636.02	2692.99	2649.99		
80	QPSK	1	1	25.96	26.03	25.80	27.0	0.0
Channel				2631.01	2692.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2692.99	2655		
70	QPSK	1	1	25.94	26.01	25.75	27.0	0.0
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2692.99	2698.98		
60	QPSK	1	1	25.97	25.99	25.84	27.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2621.02	2692.99	2698.98		
50	QPSK	1	1	25.99	26.01	25.83	27.0	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2616.01	2692.99	2670		
40	QPSK	1	1	26.00	26.04	25.76	27.0	0.0
Channel				502000	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2674.98		
30	QPSK	1	1	25.92	26.00	25.76	27.0	0.0
Channel				507204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2606.02	2692.99	2679.99		
20	QPSK	1	1	25.99	26.01	25.77	27.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.01	2692.99	2682.98		
15	QPSK	1	1	25.96	25.97	25.75	27.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2591.01	2692.99	2685		
10	QPSK	1	1	25.90	26.03	25.83	27.0	0.0



n48_FCC_Part96_Ant 4								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				636000	641666	645332		
Frequency (MHz)				3370	3624.99	3679.98		
40	PI2 BPSK	1	1	22.83	22.92	22.90		
40	PI2 BPSK	1	53	22.81	22.98	22.94	24.0	0.0
40	PI2 BPSK	1	104	22.81	22.98	22.94		
40	PI2 BPSK	50	0	22.71	22.90	22.88	24.0	0.0
40	PI2 BPSK	50	56	22.76	22.97	22.96	24.0	0.0
40	PI2 BPSK	50	56	22.73	22.92	22.87		
40	PI2 BPSK	100	0	22.68	22.91	22.89	24.0	0.0
40	QPSK	1	1	22.80	22.93	22.97		
40	QPSK	1	53	22.85	22.92	22.94	24.0	0.0
40	QPSK	1	104	22.85	22.93	22.77		
40	QPSK	50	0	22.88	22.83	22.83		
40	QPSK	50	28	22.76	22.97	22.96	24.0	0.0
40	QPSK	50	56	22.85	22.84	22.77		
40	QPSK	100	0	22.86	22.82	22.79	24.0	0.0
40	16QAM	1	1	22.81	22.82	22.82	24.0	0.0
40	64QAM	1	1	22.52	22.96	22.43	23.0	1.0
40	256QAM	1	1	20.52	20.81	20.51	21.0	3.0
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3695.02	3624.99	3684.99	(dBm)	(dB)
30	QPSK	1	1	22.64	22.92	22.78	24.0	0.0
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3660.01	3624.99	3690	(dBm)	(dB)
20	QPSK	1	1	22.63	22.90	22.81	24.0	0.0
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3655	3624.99	3694.98	(dBm)	(dB)
10	QPSK	1	1	22.63	22.91	22.84	24.0	0.0

n48_FCC_Part96_Ant 7								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				636000	641666	645332		
Frequency (MHz)				3370	3624.99	3679.98		
40	PI2 BPSK	1	1	22.81	22.71	22.48		
40	PI2 BPSK	1	53	22.54	22.66	22.46	24.0	0.0
40	PI2 BPSK	1	104	22.36	22.16	22.37		
40	PI2 BPSK	50	0	22.37	22.31	22.12	23.5	0.5
40	PI2 BPSK	50	56	22.48	22.54	22.41	24.0	0.0
40	PI2 BPSK	50	56	22.37	22.29	22.21		
40	PI2 BPSK	100	0	22.41	22.18	22.28	23.5	0.5
40	QPSK	1	1	22.84	22.78	22.51		
40	QPSK	1	53	22.41	22.68	22.31	24.0	0.0
40	QPSK	1	104	22.38	22.26	22.13		
40	QPSK	50	0	22.18	22.38	22.09		
40	QPSK	50	28	22.76	22.99	22.43	24.0	0.0
40	QPSK	50	56	22.86	22.89	22.88		
40	QPSK	100	0	22.23	22.31	22.26	23.0	1.0
40	16QAM	1	1	22.19	22.36	22.17	23.0	1.0
40	64QAM	1	1	20.29	20.36	20.31	21.5	2.5
40	256QAM	1	1	19.03	19.09	19.06	19.5	4.5
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR
Frequency (MHz)				3695.02	3624.99	3684.99	(dBm)	(dB)
30	QPSK	1	1	22.60	22.57	22.83	24.0	0.0
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3660.01	3624.99	3690	(dBm)	(dB)
20	QPSK	1	1	22.60	22.58	22.54	24.0	0.0
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR
Frequency (MHz)				3655	3624.99	3694.98	(dBm)	(dB)
10	QPSK	1	1	22.60	22.56	22.54	24.0	0.0



n48_FCC_Part96_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3203	3243.99	3283.98	
40	PI2 BPSK	1	1	2127	2132	2099	22.5
40	PI2 BPSK	1	53	2076	2088	2084	0.0
40	PI2 BPSK	1	104	2107	2122	2114	0.0
40	PI2 BPSK	50	0	2071	2070	2070	22.5
40	PI2 BPSK	50	26	2133	2126	2125	0.0
40	PI2 BPSK	50	56	2065	2065	2066	22.5
40	PI2 BPSK	100	0	2061	2068	2067	0.0
40	QPSK	1	1	2130	2148	2140	22.5
40	QPSK	1	53	2133	2135	2120	0.0
40	QPSK	1	104	2110	2117	2107	0.0
40	QPSK	50	0	2072	2080	2078	22.5
40	QPSK	50	26	2126	2135	2126	0.0
40	QPSK	50	56	2069	2074	2066	22.5
40	QPSK	100	0	2061	2071	2064	0.0
40	16QAM	1	1	1989	2003	1999	21.5
40	16QAM	1	1	1829	1837	1827	2.5
40	16QAM	1	1	1836	1837	1827	4.5
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.98	
30	QPSK	1	1	2124	2147	2143	22.5
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	2130	2144	2145	22.5
Channel				637000	641666	645332	
Frequency (MHz)				3555	3624.99	3694.98	
10	QPSK	1	1	2130	2144	2140	22.5

n48_FCC_Part96_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3270	3243.99	3293.98	
40	PI2 BPSK	1	1	2230	2300	2293	24.0
40	PI2 BPSK	1	53	2283	2296	2285	0.0
40	PI2 BPSK	1	104	2292	2296	2292	0.0
40	PI2 BPSK	50	0	2234	2232	2223	23.5
40	PI2 BPSK	50	26	2271	2281	2269	24.0
40	PI2 BPSK	50	56	2221	2228	2220	23.5
40	PI2 BPSK	100	0	2217	2225	2220	0.0
40	QPSK	1	1	2236	2303	2294	24.0
40	QPSK	1	53	2276	2286	2271	0.0
40	QPSK	1	104	2240	2232	2248	0.0
40	QPSK	50	0	2263	2277	2284	24.0
40	QPSK	50	26	2276	2281	2276	0.0
40	QPSK	50	56	2187	2179	2169	1.0
40	QPSK	100	0	2153	2168	2156	23.0
40	16QAM	1	1	2199	2200	2196	23.0
40	16QAM	1	1	2042	2046	2034	21.5
40	16QAM	1	1	1930	1945	1931	4.5
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.98	
30	QPSK	1	1	2232	2291	2292	24.0
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	2287	2299	2280	24.0
Channel				637000	641666	645332	
Frequency (MHz)				3555	3624.99	3694.98	
10	QPSK	1	1	2292	2295	2284	24.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	22.98	23.21	23.15		
100	Pi2 BPSK	1	137	22.88	23.13	23.07	24.0	0.0
100	Pi2 BPSK	1	271	22.97	23.15	23.05		
100	Pi2 BPSK	136	0	22.89	23.13	23.11	24.0	0.0
100	Pi2 BPSK	136	69	22.93	23.20	23.07	24.0	0.0
100	Pi2 BPSK	136	138	22.93	23.18	23.04	24.0	0.0
100	Pi2 BPSK	270	0	22.98	23.19	23.14	24.0	0.0
100	QPSK	1	1	23.11	23.32	23.24		
100	QPSK	1	137	23.05	23.18	23.14	24.0	0.0
100	QPSK	1	271	23.03	23.10	23.05		
100	QPSK	136	0	22.88	22.93	22.87		
100	QPSK	136	69	22.91	23.02	22.95	24.0	0.0
100	QPSK	136	138	22.84	22.87	22.83		
100	QPSK	270	0	22.89	22.92	22.85	24.0	0.0
100	16QAM	1	1	23.18	23.20	23.14	24.0	0.0
100	16QAM	1	1	23.16	23.14	23.07	24.0	0.0
100	16QAM	1	1	23.21	23.22	23.21	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.03	23.29	23.22	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3840	3949.99		
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.00	23.21	23.22	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.00	23.25	23.20	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.97	23.26	23.15	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.97	23.28	23.14	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.02	23.29	23.23	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.05	23.21	23.17	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.01	23.27	23.24	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	25.81	26.11	26.05		
100	Pi2 BPSK	1	137	25.86	26.08	25.98	27.0	0.0
100	Pi2 BPSK	1	271	25.89	26.06	25.94		
100	Pi2 BPSK	136	0	25.88	26.03	25.98	27.0	0.0
100	Pi2 BPSK	136	69	25.90	26.06	26.02	27.0	0.0
100	Pi2 BPSK	136	138	25.84	26.05	25.95	27.0	0.0
100	Pi2 BPSK	270	0	25.87	26.09	25.94	27.0	0.0
100	QPSK	1	1	25.97	26.24	26.03		
100	QPSK	1	137	25.92	26.19	26.02	27.0	0.0
100	QPSK	1	271	25.94	26.16	26.01		
100	QPSK	136	0	25.87	25.92	25.89		
100	QPSK	136	69	25.86	25.98	25.97	27.0	0.0
100	QPSK	136	138	25.88	25.90	25.88		
100	QPSK	270	0	25.78	25.84	25.78	27.0	0.0
100	16QAM	1	1	26.15	26.22	26.17	27.0	0.0
100	16QAM	1	1	25.15	25.20	25.13	26.0	1.0
100	16QAM	1	1	23.18	23.20	23.19	24.0	3.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.92	26.04	25.98	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3840	3949.99		
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.85	26.01	26.04	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.84	26.06	25.95	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.84	26.06	25.98	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.90	26.03	26.02	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3720	3840	3960		
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.84	26.03	26.02	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3710.01	3840	3949.99		
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.88	26.03	25.94	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.83	26.03	26.03	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.81	26.04	25.98	27.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. 1 Freq.	Power Middle Ch. 1 Freq.	Power High Ch. 1 Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	22.97	23.09	23.00		
100	Pi2 BPSK	1	137	22.97	23.09	22.97	24.0	0.0
100	Pi2 BPSK	1	271	22.96	23.06	22.96		
100	Pi2 BPSK	136	0	22.91	23.01	22.91	24.0	0.0
100	Pi2 BPSK	136	69	22.91	23.01	22.91	24.0	0.0
100	Pi2 BPSK	136	138	22.99	23.08	22.98	24.0	0.0
100	Pi2 BPSK	270	0	22.98	23.07	22.98	24.0	0.0
100	QPSK	1	1	23.13	23.11	23.12		
100	QPSK	1	137	23.01	23.11	23.01	24.0	0.0
100	QPSK	1	271	23.12	23.12	23.12		
100	QPSK	136	0	22.77	22.77	22.77		
100	QPSK	136	69	22.97	22.97	22.97	24.0	0.0
100	QPSK	136	138	22.85	22.85	22.85		
100	QPSK	270	0	22.74	22.74	22.74	24.0	0.0
100	16QAM	1	1	23.03	23.03	23.03	24.0	0.0
100	16QAM	1	1	23.09	23.09	23.09	24.0	0.0
100	16QAM	1	1	23.00	23.00	23.00	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.97	23.00	22.91	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3840	3949.99		
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.95	22.96	22.87	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.92	22.90	22.82	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.94	22.94	22.80	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.94	22.94	22.80	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.88	22.88	22.89	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3476.01	3499.98	3526.98		
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.94	22.92	22.85	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3466	3499.98	3534.98		
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.88	22.89	22.90	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.96	22.97	22.85	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.96	22.99	22.83	24.0	0.0



Par27Q n77_Ant 4_HPUE										
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	26.09	26.09	26.09	27.0	0.0		
100	PI2 BPSK	1	137	26.06	26.06	26.06	27.0	0.0		
100	PI2 BPSK	1	271	26.04	26.04	26.04	27.0	0.0		
100	PI2 BPSK	135	0	25.92	25.92	25.92	27.0	0.0		
100	PI2 BPSK	135	69	26.00	26.00	26.00	27.0	0.0		
100	PI2 BPSK	135	138	25.99	25.99	25.99	27.0	0.0		
100	PI2 BPSK	270	0	25.98	25.98	25.98	27.0	0.0		
100	QPSK	1	1	26.09	26.09	26.09	27.0	0.0		
100	QPSK	1	137	26.07	26.07	26.07	27.0	0.0		
100	QPSK	1	271	26.05	26.05	26.05	27.0	0.0		
100	QPSK	135	0	25.87	25.87	25.87	27.0	0.0		
100	QPSK	135	69	25.98	25.98	25.98	27.0	0.0		
100	QPSK	135	138	25.94	25.94	25.94	27.0	0.0		
100	QPSK	270	0	25.74	25.74	25.74	27.0	0.0		
100	16QAM	1	1	26.03	26.03	26.03	27.0	0.0		
100	64QAM	1	1	25.91	26.0	26.0	27.0	1.0		
100	256QAM	1	1	22.98	24.0	24.0	27.0	3.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	25.94	25.91	25.88	27.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	25.93	25.84	25.92	27.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	25.91	25.82	25.88	27.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	25.91	25.81	25.95	27.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	25.85	25.85	25.93	27.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	25.84	25.87	25.90	27.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	25.85	25.86	25.91	27.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	25.89	25.81	25.88	27.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	25.89	25.87	25.95	27.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	25.87	25.82	25.89	27.0	0.0		

Par270 n77_Ant 7										
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	22.92	23.09	23.01	24.0	0.0		
100	PI2 BPSK	1	137	22.99	23.07	22.93	24.0	0.0		
100	PI2 BPSK	1	271	22.92	23.03	22.81	24.0	0.0		
100	PI2 BPSK	135	0	22.82	22.98	22.88	24.0	0.0		
100	PI2 BPSK	135	69	23.05	23.07	23.00	24.0	0.0		
100	PI2 BPSK	135	138	22.79	22.89	22.81	24.0	0.0		
100	PI2 BPSK	270	0	22.72	22.98	22.85	24.0	0.0		
100	QPSK	1	1	22.92	23.16	22.95	24.0	0.0		
100	QPSK	1	137	22.92	23.09	22.93	24.0	0.0		
100	QPSK	1	271	22.91	23.02	22.83	24.0	0.0		
100	QPSK	135	0	22.90	22.97	22.80	24.0	0.0		
100	QPSK	135	69	23.05	23.15	22.94	24.0	0.0		
100	QPSK	135	138	22.84	22.89	22.67	24.0	0.0		
100	QPSK	270	0	22.88	23.02	22.76	24.0	0.0		
100	16QAM	1	1	22.82	23.08	22.82	24.0	0.0		
100	64QAM	1	1	22.37	22.49	22.31	23.5	0.5		
100	256QAM	1	1	20.47	20.49	20.36	21.5	2.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	22.85	23.11	22.87	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.86	23.01	22.79	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.94	23.04	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.00	23.11	22.93	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.90	23.01	22.93	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.89	23.00	22.84	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.87	23.07	22.93	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.87	23.08	22.92	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.85	23.01	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.93	22.97	22.83	24.0	0.0		

Par270 n77_Ant 7_HPUE										
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	24.43	24.59	24.51	26.0	0.0		
100	PI2 BPSK	1	137	24.58	24.64	24.50	26.0	0.0		
100	PI2 BPSK	1	271	24.50	24.49	24.19	26.0	0.0		
100	PI2 BPSK	135	0	24.41	24.58	24.29	25.5	0.5		
100	PI2 BPSK	135	69	24.51	24.53	24.41	26.0	0.0		
100	PI2 BPSK	135	138	24.43	24.41	24.39	25.5	0.5		
100	PI2 BPSK	270	0	24.29	24.35	24.33	26.0	0.0		
100	QPSK	1	1	24.51	24.65	24.46	26.0	0.0		
100	QPSK	1	137	24.46	24.59	24.38	26.0	0.0		
100	QPSK	1	271	24.48	24.53	24.29	26.0	0.0		
100	QPSK	135	0	24.16	24.25	24.09	26.0	0.0		
100	QPSK	135	69	24.56	24.63	24.44	26.0	0.0		
100	QPSK	135	138	24.17	24.18	24.01	26.0	0.0		
100	QPSK	270	0	23.68	23.71	23.58	25.0	1.0		
100	16QAM	1	1	23.61	23.68	23.46	25.0	1.0		
100	64QAM	1	1	22.41	22.51	22.37	23.5	2.5		
100	256QAM	1	1	20.70	20.75	20.71	21.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	24.32	24.46	24.29	26.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	24.49	24.46	24.28	26.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	24.44	24.56	24.28	26.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	24.39	24.47	24.38	26.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	24.40	24.53	24.40	26.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	24.30	24.49	24.41	26.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.42	24.55	24.34	26.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.45	24.47	24.26	26.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	24.31	24.58	24.36	26.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	24.45	24.44	24.34	26.0	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)								
100	PI2 BPSK	1	1	22.2	23.06	23.07	24.0	0.0
100	PI2 BPSK	1	137	22.2	23.06	23.07	24.0	0.0
100	PI2 BPSK	1	271	22.2	23.06	23.07	24.0	0.0
100	PI2 BPSK	135	0	22.64	23.06	23.07	24.0	0.0
100	PI2 BPSK	135	69	22.63	23.06	23.07	24.0	0.0
100	PI2 BPSK	135	138	23.05	23.06	23.07	24.0	0.0
100	PI2 BPSK	270	0	22.91	23.06	23.07	24.0	0.0
100	QPSK	1	1	22.12	23.06	23.07	24.0	0.0
100	QPSK	1	137	22.99	23.06	23.07	24.0	0.0
100	QPSK	1	271	22.70	23.06	23.07	24.0	0.0
100	QPSK	135	0	22.70	23.06	23.07	24.0	0.0
100	QPSK	135	69	22.66	23.06	23.07	24.0	0.0
100	QPSK	135	138	22.76	23.06	23.07	24.0	0.0
100	QPSK	270	0	22.81	23.06	23.07	24.0	0.0
100	16QAM	1	1	22.82	23.06	23.07	24.0	0.0
100	64QAM	1	1	22.75	23.06	23.07	24.0	0.0
100	256QAM	1	1	20.65	21.5	22.5	21.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.09	23.10	23.07	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.06	23.07	23.10	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.11	23.11	23.10	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.07	23.11	23.06	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.08	23.05	23.08	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.11	23.10	23.07	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.11	23.06	23.08	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.09	23.10	23.11	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.11	23.11	23.07	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.05	23.07	23.07	24.0	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)								
100	PI2 BPSK	1	1	24.23	23.83	24.23	26.0	0.0
100	PI2 BPSK	1	137	24.23	23.83	24.23	26.0	0.0
100	PI2 BPSK	1	271	24.23	23.83	24.23	26.0	0.0
100	PI2 BPSK	135	0	24.21	24.21	24.21	26.0	0.0
100	PI2 BPSK	135	69	24.46	24.46	24.46	26.0	0.0
100	PI2 BPSK	135	138	24.30	24.30	24.30	26.0	0.0
100	PI2 BPSK	270	0	24.47	24.47	24.47	26.0	0.0
100	QPSK	1	1	24.20	24.20	24.20	26.0	0.0
100	QPSK	1	137	24.20	24.20	24.20	26.0	0.0
100	QPSK	1	271	24.20	24.20	24.20	26.0	0.0
100	QPSK	135	0	24.11	24.11	24.11	26.0	0.0
100	QPSK	135	69	24.46	24.46	24.46	26.0	0.0
100	QPSK	135	138	24.12	24.12	24.12	26.0	0.0
100	QPSK	270	0	24.00	24.00	24.00	25.0	1.0
100	16QAM	1	1	24.10	24.10	24.10	25.0	1.0
100	64QAM	1	1	22.75	23.5	23.5	23.5	2.5
100	256QAM	1	1	20.65	21.5	22.5	21.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	24.45	24.46	24.43	26.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.44	24.46	24.44	26.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.41	24.40	24.41	26.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.44	24.40	24.40	26.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.42	24.40	24.42	26.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.43	24.41	24.41	26.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.43	24.41	24.46	26.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.42	24.46	24.44	26.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.45	24.40	24.40	26.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.45	24.44	24.41	26.0	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)								
100	PI2 BPSK	1	1	37.26	38.40	39.00	21.0	0.0
100	PI2 BPSK	1	137	19.49	19.49	19.32	19.49	0.0
100	PI2 BPSK	1	271	19.52	19.45	19.39	19.52	0.0
100	PI2 BPSK	135	0	19.48	19.47	19.42	19.48	0.0
100	PI2 BPSK	135	69	19.49	19.53	19.52	19.49	0.0
100	PI2 BPSK	135	138	19.44	19.55	19.46	19.44	0.0
100	PI2 BPSK	270	0	19.43	19.44	19.39	19.43	0.0
100	QPSK	1	1	19.25	19.58	19.47	19.47	0.0
100	QPSK	1	137	19.45	19.50	19.42	19.45	0.0
100	QPSK	1	271	19.42	19.50	19.38	19.42	0.0
100	QPSK	135	0	19.40	19.52	19.43	19.40	0.0
100	QPSK	135	69	19.49	19.57	19.44	19.49	0.0
100	QPSK	135	138	19.42	19.44	19.40	19.42	0.0
100	QPSK	270	0	19.48	19.49	19.35	19.48	0.0
100	16QAM	1	1	19.43	19.51	19.43	19.43	0.0
100	64QAM	1	1	18.99	19.02	19.00	18.99	0.0
100	256QAM	1	1	18.92	18.90	18.80	18.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.42	19.46	19.37	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.50	19.56	19.32	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.40	19.50	19.44	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.52	19.51	19.34	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.41	19.57	19.45	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.41	19.47	19.38	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.41	19.43	19.32	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.48	19.45	19.38	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.40	19.43	19.37	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.43	19.47	19.35	21.0	0.0



Par270 n77_Ant 8_HPUE										
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	PB2 BPSK	1	1	21.41	21.44	21.43				
100	PB2 BPSK	1	137	21.18	21.29	21.28	23.0	0.0		
100	PB2 BPSK	1	271	21.38	21.42	21.41				
100	PB2 BPSK	135	0	20.57	20.72	20.70	22.5	0.5		
100	PB2 BPSK	135	69	21.33	21.34	21.21	23.0	0.0		
100	PB2 BPSK	135	138	20.79	20.83	20.70				
100	PB2 BPSK	270	0	20.59	20.72	20.71	22.5	0.5		
100	QPSK	1	1	21.41	21.34	21.52				
100	QPSK	1	137	21.36	21.43	21.31	23.0	0.0		
100	QPSK	1	271	21.14	21.23	21.11				
100	QPSK	135	0	20.35	20.39	20.37				
100	QPSK	135	69	21.38	21.48	21.42	23.0	0.0		
100	QPSK	135	138	20.44	20.45	20.36				
100	QPSK	270	0	20.28	20.43	20.39	22.0	1.0		
100	16QAM	1	1	20.37	20.49	20.37	22.0	1.0		
100	64QAM	1	1	18.96	18.92	18.91	20.5	2.5		
100	256QAM	1	1	18.88	18.90	18.75	18.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	21.11	21.35	21.41	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.05	21.34	21.38	23.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.16	21.29	21.39	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.08	21.38	21.40	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.12	21.35	21.35	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.05	21.29	21.30	23.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.10	21.32	21.34	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.08	21.32	21.37	23.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	21.14	21.33	21.34	23.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	21.11	21.34	21.34	23.0	0.0		

Par270 n77_Ant 8										
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	PB2 BPSK	1	1	18.84						
100	PB2 BPSK	1	137	18.87			20.5	0.0		
100	PB2 BPSK	1	271	18.93						
100	PB2 BPSK	135	0	18.90			20.5	0.0		
100	PB2 BPSK	135	69	18.83			20.5	0.0		
100	PB2 BPSK	135	138	18.80						
100	PB2 BPSK	270	0	18.85			20.5	0.0		
100	QPSK	1	1	18.85						
100	QPSK	1	137	18.83			20.5	0.0		
100	QPSK	1	271	18.83						
100	QPSK	135	0	18.87						
100	QPSK	135	69	18.91			20.5	0.0		
100	QPSK	135	138	18.89						
100	QPSK	270	0	18.80			20.5	0.0		
100	16QAM	1	1	18.94			20.5	0.0		
100	64QAM	1	1	18.45			20.0	0.5		
100	256QAM	1	1	18.38			18.0	2.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	18.85	18.83	18.82	20.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.85	18.89	18.81	20.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.86	18.85	18.77	20.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.86	18.87	18.78	20.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.81	18.83	18.86	20.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.84	18.83	18.85	20.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.83	18.88	18.87	20.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.88	18.89	18.79	20.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.86	18.81	18.88	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.80	18.85	18.80	20.5	0.0		

Par270 n77_Ant 8_HPUE										
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	PB2 BPSK	1	1	20.89						
100	PB2 BPSK	1	137	20.85			22.5	0.0		
100	PB2 BPSK	1	271	20.93						
100	PB2 BPSK	135	0	20.35			22.0	0.5		
100	PB2 BPSK	135	69	20.86			22.5	0.0		
100	PB2 BPSK	135	138	20.40						
100	PB2 BPSK	270	0	20.32			22.0	0.5		
100	QPSK	1	1	20.89						
100	QPSK	1	137	20.82			22.5	0.0		
100	QPSK	1	271	20.90						
100	QPSK	135	0	19.78						
100	QPSK	135	69	20.82			22.5	0.0		
100	QPSK	135	138	19.80						
100	QPSK	270	0	19.76			21.5	1.0		
100	16QAM	1	1	19.99			21.5	1.0		
100	64QAM	1	1	18.45			20.0	2.5		
100	256QAM	1	1	18.38			18.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	20.81	20.88	20.98	22.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.83	20.88	20.87	22.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	20.86	20.93	20.89	22.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	20.92	20.97	20.96	22.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.89	20.89	20.93	22.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.93	20.92	20.93	22.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.89	20.92	20.87	22.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.96	20.94	20.90	22.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.91	20.87	20.89	22.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.84	20.89	20.87	22.5	0.0		



Par270 n77_Ant 10

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)								
100	PI2 BPSK	1	1	2154	2177	2171		
100	PI2 BPSK	1	137	2158	2165	2164	23.0	0.0
100	PI2 BPSK	1	271	2160	2176	2166		
100	PI2 BPSK	135	0	2164	2170	2163	23.0	0.0
100	PI2 BPSK	135	69	2153	2165	2167	23.0	0.0
100	PI2 BPSK	135	138	2162	2165	2167		
100	PI2 BPSK	270	0	2152	2174	2172	23.0	0.0
100	QPSK	1	1	2168	2178	2174		
100	QPSK	1	137	2153	2165	2173	23.0	0.0
100	QPSK	1	271	2158	2172	2161		
100	QPSK	135	0	2180	2185	2189		
100	QPSK	135	69	2175	2179	2177	23.0	0.0
100	QPSK	135	138	2153	2170	2160		
100	QPSK	270	0	2164	2167	2166	23.0	0.0
100	16QAM	1	1	2158	2174	2165	23.0	0.0
100	64QAM	1	1	2116	2121	2107	22.5	0.5
100	256QAM	1	1	1814	1816	1810	20.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	2157	2167	2162	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	2155	2166	2168	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	2153	2163	2165	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	2155	2168	2165	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	2165	2164	2172	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	2170	2169	2169	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	2156	2174	2168	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	2158	2163	2168	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	2155	2177	2184	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	2157	2160	2169	23.0	0.0

Par270 n77_Ant 10_HPUe

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)								
100	PI2 BPSK	1	1	2161	2170	2168		
100	PI2 BPSK	1	137	2158	2162	2165	25.0	0.0
100	PI2 BPSK	1	271	2163	2161	2159		
100	PI2 BPSK	135	0	2168	2162	2160	24.5	0.5
100	PI2 BPSK	135	69	2160	2162	2161	25.0	0.0
100	PI2 BPSK	135	138	2288	2301	2298	24.5	0.5
100	PI2 BPSK	270	0	2295	2303	2297		
100	QPSK	1	1	2300	2311	2301		
100	QPSK	1	137	2156	2167	2164	25.0	0.0
100	QPSK	1	271	2337	2342	2341		
100	QPSK	135	0	2242	2248	2239		
100	QPSK	135	69	2240	2252	2244	25.0	0.0
100	QPSK	135	138	2247	2257	2250		
100	QPSK	270	0	2244	2252	2240	24.0	1.0
100	16QAM	1	1	2282	2265	2258	24.0	1.0
100	64QAM	1	1	2116	2121	2107	22.5	2.5
100	256QAM	1	1	1811	1816	1814	20.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	2157	2169	2159	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	2355	2362	2355	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	2354	2369	2362	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	2355	2362	2364	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	2357	2364	2362	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	2357	2364	2361	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	2349	2369	2359	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	2345	2360	2364	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	2354	2366	2354	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	2340	2364	2361	25.0	0.0

Par270 n77_Ant 10

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)								
100	PI2 BPSK	1	1			2170		
100	PI2 BPSK	1	137			2173	23.0	0.0
100	PI2 BPSK	1	271			2174		
100	PI2 BPSK	135	0			2174	23.0	0.0
100	PI2 BPSK	135	69			2178	23.0	0.0
100	PI2 BPSK	135	138			2176		
100	PI2 BPSK	270	0			2178	23.0	0.0
100	QPSK	1	1			2185		
100	QPSK	1	137			2181	23.0	0.0
100	QPSK	1	271			2181		
100	QPSK	135	0			2180		
100	QPSK	135	69			2182	23.0	0.0
100	QPSK	135	138			2170		
100	QPSK	270	0			2172	23.0	0.0
100	16QAM	1	1			2182	23.0	0.0
100	64QAM	1	1			2121	22.5	0.5
100	256QAM	1	1			1817	20.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	2178	2175	2171	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	2179	2170	2176	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	2180	2168	2165	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	2172	2176	2169	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	2180	2178	2172	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	2172	2171	2165	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	2183	2172	2173	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	2175	2181	2176	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	2175	2168	2168	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	2170	2162	2164	23.0	0.0



Par27Q n77_Ant 10_HPUE

EW (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	23.80	23.80	23.80	25.0	0.0
100	PI2 BPSK	1	137	23.67	23.67	23.67	25.0	0.0
100	PI2 BPSK	1	271	23.73	23.73	23.73	25.0	0.0
100	PI2 BPSK	135	0	23.14	23.14	23.14	24.5	0.5
100	PI2 BPSK	135	69	23.03	23.03	23.03	25.0	0.0
100	PI2 BPSK	135	138	23.10	23.10	23.10	24.5	0.5
100	PI2 BPSK	270	0	23.08	23.08	23.08	25.0	0.0
100	QPSK	1	1	23.81	23.81	23.81	25.0	0.0
100	QPSK	1	137	23.31	23.31	23.31	25.0	0.0
100	QPSK	1	271	23.38	23.38	23.38	25.0	0.0
100	QPSK	135	0	22.51	22.51	22.51	25.0	0.0
100	QPSK	135	69	22.22	22.22	22.22	25.0	0.0
100	QPSK	135	138	22.10	22.10	22.10	25.0	0.0
100	QPSK	270	0	22.28	22.28	22.28	24.0	1.0
100	16QAM	1	1	22.83	22.83	22.83	24.0	1.0
100	64QAM	1	1	21.21	21.21	21.21	22.5	2.5
100	256QAM	1	1	19.17	19.17	19.17	20.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.80	23.80	23.80	25.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.70	23.71	23.74	25.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.74	23.76	23.71	25.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.80	23.80	23.75	25.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.74	23.74	23.74	25.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.70	23.70	23.70	25.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.73	23.76	23.79	25.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.76	23.76	23.74	25.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.77	23.72	23.77	25.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.75	23.72	23.72	25.0	0.0

Par27Q n78_Ant 4

EW (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	23.20	23.20	23.20	24.0	0.0
100	PI2 BPSK	1	137	23.21	23.21	23.21	24.0	0.0
100	PI2 BPSK	1	271	23.20	23.20	23.20	24.0	0.0
100	PI2 BPSK	135	0	23.11	23.11	23.11	24.0	0.0
100	PI2 BPSK	135	69	23.14	23.14	23.14	24.0	0.0
100	PI2 BPSK	135	138	23.08	23.08	23.08	24.0	0.0
100	PI2 BPSK	270	0	23.03	23.03	23.03	24.0	0.0
100	QPSK	1	1	23.22	23.22	23.22	24.0	0.0
100	QPSK	1	137	23.06	23.06	23.06	24.0	0.0
100	QPSK	1	271	23.12	23.12	23.12	24.0	0.0
100	QPSK	135	0	23.06	23.06	23.06	24.0	0.0
100	QPSK	135	69	23.11	23.11	23.11	24.0	0.0
100	QPSK	135	138	23.04	23.04	23.04	24.0	0.0
100	QPSK	270	0	23.06	23.06	23.06	24.0	0.0
100	16QAM	1	1	23.06	23.06	23.06	24.0	0.0
100	64QAM	1	1	23.04	23.04	23.04	24.0	0.0
100	256QAM	1	1	22.97	22.97	22.97	24.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.00	23.04	23.00	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.97	22.95	23.01	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.01	22.98	23.01	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.00	22.94	23.02	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.02	23.01	23.01	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.99	22.93	23.07	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.01	22.99	23.05	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.00	23.01	23.02	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.98	23.02	23.04	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.00	22.99	23.03	24.0	0.0

Par27Q n78_Ant 4_HPUE

EW (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	25.88	25.88	25.88	27.0	0.0
100	PI2 BPSK	1	137	25.85	25.85	25.85	27.0	0.0
100	PI2 BPSK	1	271	25.85	25.85	25.85	27.0	0.0
100	PI2 BPSK	135	0	25.80	25.80	25.80	27.0	0.0
100	PI2 BPSK	135	69	25.83	25.83	25.83	27.0	0.0
100	PI2 BPSK	135	138	25.83	25.83	25.83	27.0	0.0
100	PI2 BPSK	270	0	25.83	25.83	25.83	27.0	0.0
100	QPSK	1	1	25.91	25.91	25.91	27.0	0.0
100	QPSK	1	137	25.81	25.81	25.81	27.0	0.0
100	QPSK	1	271	25.78	25.78	25.78	27.0	0.0
100	QPSK	135	0	25.85	25.85	25.85	27.0	0.0
100	QPSK	135	69	25.86	25.86	25.86	27.0	0.0
100	QPSK	135	138	25.81	25.81	25.81	27.0	0.0
100	QPSK	270	0	25.83	25.83	25.83	27.0	0.0
100	16QAM	1	1	25.88	25.88	25.88	27.0	0.0
100	64QAM	1	1	25.08	25.08	25.08	26.0	1.0
100	256QAM	1	1	23.15	23.15	23.15	24.0	3.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.80	25.88	25.88	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.74	25.75	25.84	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.71	25.82	25.84	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.71	25.77	25.86	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.74	25.78	25.86	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.69	25.81	25.89	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.77	25.75	25.84	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.74	25.82	25.86	27.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	25.76	25.79	25.77	27.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	25.71	25.82	25.78	27.0	0.0



Part27Q 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)									
100	PI2 BPSK	1	1	23.00	23.00	24.00	24.0	0.0	
100	PI2 BPSK	1	137	23.00	23.00	24.00	24.0	0.0	
100	PI2 BPSK	1	271	23.00	23.00	24.00	24.0	0.0	
100	PI2 BPSK	135	0	22.98	22.98	24.00	24.0	0.0	
100	PI2 BPSK	135	69	22.98	23.00	24.00	24.0	0.0	
100	PI2 BPSK	135	138	23.02	23.02	24.00	24.0	0.0	
100	PI2 BPSK	270	0	22.98	22.98	24.00	24.0	0.0	
100	QPSK	1	1	23.00	23.00	24.00	24.0	0.0	
100	QPSK	1	137	23.00	23.00	24.00	24.0	0.0	
100	QPSK	1	271	22.94	22.94	24.00	24.0	0.0	
100	QPSK	135	0	23.00	23.00	24.00	24.0	0.0	
100	QPSK	135	69	23.02	23.02	24.00	24.0	0.0	
100	QPSK	135	138	23.01	23.01	24.00	24.0	0.0	
100	QPSK	270	0	23.00	23.00	24.00	24.0	0.0	
100	16QAM	1	1	22.99	22.99	24.00	24.0	0.0	
100	64QAM	1	1	22.99	22.99	24.00	24.0	0.0	
100	256QAM	1	1	22.98	22.98	24.00	24.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	23.02	23.01	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.96	22.95	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.94	22.98	22.97	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.02	23.02	22.95	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.98	22.94	22.94	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.99	23.02	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.02	22.97	22.94	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.00	22.95	23.04	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.95	22.97	23.03	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.01	23.02	22.98	24.0	0.0	

Part27Q n78_Ant 4_HPUE									
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	25.89	25.89	25.89	27.0	0.0	
100	PI2 BPSK	1	137	25.89	25.89	25.89	27.0	0.0	
100	PI2 BPSK	1	271	25.91	25.91	25.91	27.0	0.0	
100	PI2 BPSK	135	0	25.89	25.89	25.89	27.0	0.0	
100	PI2 BPSK	135	69	25.94	25.94	25.94	27.0	0.0	
100	PI2 BPSK	135	138	25.93	25.93	25.93	27.0	0.0	
100	PI2 BPSK	270	0	25.90	25.90	25.90	27.0	0.0	
100	QPSK	1	1	25.90	25.90	25.90	27.0	0.0	
100	QPSK	1	137	25.90	25.90	25.90	27.0	0.0	
100	QPSK	1	271	25.93	25.93	25.93	27.0	0.0	
100	QPSK	135	0	25.94	25.94	25.94	27.0	0.0	
100	QPSK	135	69	25.88	25.88	25.88	27.0	0.0	
100	QPSK	135	138	25.93	25.93	25.93	27.0	0.0	
100	QPSK	270	0	25.97	25.97	25.97	27.0	0.0	
100	16QAM	1	1	25.97	25.97	25.97	27.0	0.0	
100	64QAM	1	1	25.96	25.96	25.96	26.0	1.0	
100	256QAM	1	1	25.97	25.97	25.97	24.0	3.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.88	25.84	25.85	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.86	25.84	25.87	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.91	25.87	25.89	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.95	25.84	25.87	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.94	25.87	25.95	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.95	25.87	25.85	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.88	25.84	25.90	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.92	25.86	25.87	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.90	25.85	25.85	27.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	25.97	25.83	25.94	27.0	0.0	



Par270 n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.00	23.00	23.00	0.0
100	PI2 BPSK	1	137	22.92	22.92	22.92	24.0
100	PI2 BPSK	1	271	22.91	22.91	22.91	0.0
100	PI2 BPSK	135	0	22.93	22.93	22.93	24.0
100	PI2 BPSK	135	69	22.95	22.95	22.95	24.0
100	PI2 BPSK	135	138	22.87	22.87	22.87	24.0
100	PI2 BPSK	270	0	22.91	22.91	22.91	0.0
100	QPSK	1	1	23.00	23.00	23.00	0.0
100	QPSK	1	137	22.94	22.94	22.94	24.0
100	QPSK	1	271	23.03	23.03	23.03	0.0
100	QPSK	135	0	23.02	23.02	23.02	24.0
100	QPSK	135	69	22.98	22.98	22.98	24.0
100	QPSK	135	138	22.96	22.96	22.96	24.0
100	QPSK	270	0	22.85	22.85	22.85	0.0
100	16QAM	1	1	22.31	22.31	22.31	24.0
100	16QAM	1	1	22.36	22.36	22.36	2.5
100	256QAM	1	1	21.58	21.58	21.58	2.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.85	22.85	22.85	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.82	22.82	22.82	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.93	22.80	22.93	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.90	22.88	22.94	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.95	22.81	22.84	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.95	22.83	22.83	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.85	22.81	22.82	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.95	22.84	22.85	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.88	22.88	22.88	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.86	22.86	22.86	24.0

Par270 n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	24.45	24.45	24.45	0.0
100	PI2 BPSK	1	137	24.42	24.42	24.42	26.0
100	PI2 BPSK	1	271	24.91	24.91	24.91	0.0
100	PI2 BPSK	135	0	24.50	24.50	24.50	25.5
100	PI2 BPSK	135	69	24.77	24.77	24.77	26.0
100	PI2 BPSK	135	138	24.58	24.58	24.58	25.5
100	PI2 BPSK	270	0	24.51	24.51	24.51	0.0
100	QPSK	1	1	25.00	25.00	25.00	0.0
100	QPSK	1	137	24.53	24.53	24.53	26.0
100	QPSK	1	271	24.89	24.89	24.89	0.0
100	QPSK	135	0	24.08	24.08	24.08	26.0
100	QPSK	135	69	24.98	24.98	24.98	26.0
100	QPSK	135	138	24.08	24.08	24.08	26.0
100	QPSK	270	0	23.93	23.93	23.93	25.0
100	16QAM	1	1	24.23	24.23	24.23	25.0
100	16QAM	1	1	22.61	22.61	22.61	2.5
100	256QAM	1	1	20.89	20.89	20.89	4.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	24.43	24.48	24.43	26.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	24.95	24.99	24.99	26.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	24.98	24.98	24.98	26.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	24.95	24.98	24.97	26.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	24.95	24.97	24.98	26.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	24.48	24.48	24.48	26.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.96	24.94	24.94	26.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.98	24.98	24.95	26.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	24.99	24.98	24.98	26.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.93	24.93	24.94	26.0



Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.10	23.10	23.10	0.0
100	PI2 BPSK	1	137	23.12	23.12	24.0	0.0
100	PI2 BPSK	1	271	23.10	23.10	24.0	0.0
100	PI2 BPSK	135	0	23.17	23.17	24.0	0.0
100	PI2 BPSK	135	69	23.13	23.13	24.0	0.0
100	PI2 BPSK	135	138	23.10	23.10	24.0	0.0
100	PI2 BPSK	270	0	23.15	23.15	24.0	0.0
100	QPSK	1	1	23.18	23.18	24.0	0.0
100	QPSK	1	137	23.12	23.12	24.0	0.0
100	QPSK	1	271	23.10	23.10	24.0	0.0
100	QPSK	135	0	23.09	23.09	24.0	0.0
100	QPSK	135	69	23.12	23.12	24.0	0.0
100	QPSK	135	138	22.50	22.50	24.0	0.0
100	QPSK	270	0	23.14	23.14	24.0	0.0
100	16QAM	1	1	23.12	23.12	24.0	0.0
100	16QAM	1	1	22.98	22.98	23.5	2.5
100	256QAM	1	1	21.11	21.11	23.5	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.82	23.82	24.0	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.12	23.06	23.09	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.15	23.13	23.12	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.14	23.12	23.09	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.11	23.10	23.13	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.10	23.09	23.04	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.13	23.09	23.14	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.14	23.05	23.05	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.12	23.12	23.13	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.10	23.07	23.05	24.0

Part27Q n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	24.75	24.75	24.75	0.0
100	PI2 BPSK	1	137	24.77	24.77	26.0	0.0
100	PI2 BPSK	1	271	24.76	24.76	26.0	0.0
100	PI2 BPSK	135	0	24.77	24.77	25.5	0.5
100	PI2 BPSK	135	69	24.81	24.81	26.0	0.0
100	PI2 BPSK	135	138	24.79	24.79	25.5	0.5
100	PI2 BPSK	270	0	24.73	24.73	26.0	0.0
100	QPSK	1	1	24.89	24.89	26.0	0.0
100	QPSK	1	137	24.51	24.51	26.0	0.0
100	QPSK	1	271	24.10	24.10	26.0	0.0
100	QPSK	135	0	24.44	24.44	26.0	0.0
100	QPSK	135	69	24.65	24.65	26.0	0.0
100	QPSK	135	138	24.22	24.22	26.0	0.0
100	QPSK	270	0	24.21	24.21	25.0	1.0
100	16QAM	1	1	24.14	24.14	25.0	1.0
100	16QAM	1	1	23.27	23.27	23.5	2.5
100	256QAM	1	1	21.14	21.14	23.5	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	24.87	24.86	24.88	26.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	24.86	24.86	24.83	26.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	24.87	24.82	24.84	26.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	24.84	24.87	24.87	26.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	24.85	24.87	24.85	26.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	24.83	24.84	24.86	26.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	24.85	24.86	24.88	26.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	24.84	24.84	24.87	26.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	24.83	24.83	24.86	26.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	24.84	24.83	24.85	26.0



Par270 n78_Ant 8								
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	19.57	3795			
100	PI2 BPSK	1	137	19.57	3795	21.0	21.0	0.0
100	PI2 BPSK	1	271	19.54				
100	PI2 BPSK	135	0	19.56	3795	21.0	21.0	0.0
100	PI2 BPSK	135	69	19.55				
100	PI2 BPSK	135	138	19.54			21.0	0.0
100	PI2 BPSK	270	0	19.54				
100	QPSK	1	1	19.65				
100	QPSK	1	137	19.57			21.0	0.0
100	QPSK	1	271	19.54				
100	QPSK	135	0	19.60				
100	QPSK	135	69	19.65				
100	QPSK	135	138	19.61			21.0	0.0
100	QPSK	270	0	19.55			21.0	0.0
100	16QAM	1	1	19.62			21.0	0.0
100	64QAM	1	1	18.74			20.9	0.5
100	256QAM	1	1	18.76			18.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	37.62	3795	3794.98	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	37.60	3795	3795.99	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.58	19.63	19.58	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.56	19.61	19.47	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.57	19.60	19.51	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	37.20	3795	3795	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.55	19.56	19.51	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.58	19.55	19.47	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.65	19.57	19.47	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.62	19.57	19.55	21.0	0.0

Par270 n78_Ant 8_HPUE								
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	21.58	3795			
100	PI2 BPSK	1	137	21.44			23.0	0.0
100	PI2 BPSK	1	271	21.53				
100	PI2 BPSK	135	0	20.70			22.5	0.5
100	PI2 BPSK	135	69	21.33			23.0	0.0
100	PI2 BPSK	135	138	20.82			22.5	0.5
100	PI2 BPSK	270	0	20.78				
100	QPSK	1	1	21.60				
100	QPSK	1	137	21.52			23.0	0.0
100	QPSK	1	271	21.54				
100	QPSK	135	0	20.17				
100	QPSK	135	69	21.29			23.0	0.0
100	QPSK	135	138	20.32				
100	QPSK	270	0	20.23			22.0	1.0
100	16QAM	1	1	20.28			22.0	1.0
100	64QAM	1	1	18.74			20.9	2.5
100	256QAM	1	1	18.76			18.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.65	21.50	21.48	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.54	21.49	21.52	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.51	21.49	21.47	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.59	21.51	21.49	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.52	21.46	21.47	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.51	21.51	21.47	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.55	21.48	21.46	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.58	21.48	21.46	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.55	21.49	21.48	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.56	21.50	21.45	23.0	0.0



Part27Q n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.93	18.93	18.93	0.0
100	PI2 BPSK	1	137	18.97	18.97	18.97	20.0
100	PI2 BPSK	1	271	18.94	18.94	18.94	0.0
100	PI2 BPSK	135	0	18.92	18.92	18.92	20.0
100	PI2 BPSK	135	69	18.99	18.99	18.99	20.0
100	PI2 BPSK	135	138	18.81	18.81	18.81	20.0
100	PI2 BPSK	270	0	18.81	18.81	18.81	0.0
100	QPSK	1	1	18.95	18.95	18.95	0.0
100	QPSK	1	137	18.87	18.87	18.87	20.0
100	QPSK	1	271	18.89	18.89	18.89	0.0
100	QPSK	135	0	18.94	18.94	18.94	0.0
100	QPSK	135	69	18.95	18.95	18.95	20.0
100	QPSK	135	138	18.90	18.90	18.90	0.0
100	QPSK	270	0	18.81	18.81	18.81	20.0
100	16QAM	1	1	18.90	18.90	18.90	2.0
100	64QAM	1	1	18.29	18.29	18.29	0.5
100	256QAM	1	1	18.31	18.31	18.31	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.87	18.87	18.87	20.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.87	18.85	18.85	20.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.81	18.80	18.78	20.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.88	18.79	18.81	20.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.87	18.83	18.80	20.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.90	18.83	18.87	20.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.90	18.91	18.83	20.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.83	18.80	18.81	20.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.90	18.83	18.82	20.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.86	18.70	18.83	20.0

Part27Q n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	20.87	20.87	20.87	0.0
100	PI2 BPSK	1	137	20.86	20.86	20.86	22.0
100	PI2 BPSK	1	271	20.50	20.50	20.50	0.0
100	PI2 BPSK	135	0	20.23	20.23	20.23	21.5
100	PI2 BPSK	135	69	20.20	20.20	20.20	22.0
100	PI2 BPSK	135	138	20.31	20.31	20.31	21.5
100	PI2 BPSK	270	0	20.28	20.28	20.28	0.0
100	QPSK	1	1	20.91	20.91	20.91	0.0
100	QPSK	1	137	20.79	20.79	20.79	22.0
100	QPSK	1	271	20.53	20.53	20.53	0.0
100	QPSK	135	0	19.74	19.74	19.74	21.0
100	QPSK	135	69	20.69	20.69	20.69	22.0
100	QPSK	135	138	18.90	18.90	18.90	1.0
100	QPSK	270	0	18.69	18.69	18.69	2.0
100	16QAM	1	1	19.90	19.90	19.90	1.0
100	64QAM	1	1	18.29	18.29	18.29	2.5
100	256QAM	1	1	18.31	18.31	18.31	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.87	20.86	20.83	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.80	20.84	20.80	22.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.86	20.81	20.83	22.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.87	20.84	20.88	22.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.83	20.84	20.88	22.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.82	20.77	20.86	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.83	20.79	20.85	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.87	20.83	20.84	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.85	20.86	20.87	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.70	20.70	20.84	22.0



Par270 n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	2172	2172		
100	PI2 BPSK	1	137	2168	2168	23.0	0.0
100	PI2 BPSK	1	271	2171	2171		
100	PI2 BPSK	135	0	2172	2172	23.0	0.0
100	PI2 BPSK	135	69	2174	2174	23.0	0.0
100	PI2 BPSK	135	138	2165	2165	23.0	0.0
100	PI2 BPSK	270	0	2169	2169		
100	QPSK	1	1	2175	2175		
100	QPSK	1	137	2168	2168	23.0	0.0
100	QPSK	1	271	2173	2173		
100	QPSK	135	0	2181	2181		
100	QPSK	135	69	2168	2168	23.0	0.0
100	QPSK	135	138	2184	2184		
100	QPSK	270	0	2168	2168	23.0	0.0
100	16QAM	1	1	2167	2167	23.0	0.0
100	64QAM	1	1	2170	2170	22.5	0.5
100	256QAM	1	1	1925	1925	20.5	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	2172	2162	21.62	23.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	2160	2166	21.55	23.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	2173	2164	21.65	23.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	2168	2167	21.62	23.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	2167	2158	21.55	23.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	2144	2140	21.40	23.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	2171	2161	21.68	23.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	2169	2166	21.66	23.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	2168	2163	21.55	23.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	2166	2170	21.59	23.0

Par270 n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	2362	2362		
100	PI2 BPSK	1	137	2360	2360	25.0	0.0
100	PI2 BPSK	1	271	2363	2363		
100	PI2 BPSK	135	0	2364	2364	24.5	0.5
100	PI2 BPSK	135	69	2367	2367	25.0	0.0
100	PI2 BPSK	135	138	2360	2360	24.5	0.5
100	PI2 BPSK	270	0	2358	2358		
100	QPSK	1	1	2371	2371		
100	QPSK	1	137	2368	2368	25.0	0.0
100	QPSK	1	271	2364	2364		
100	QPSK	135	0	2362	2362		
100	QPSK	135	69	2358	2358	25.0	0.0
100	QPSK	135	138	2362	2362		
100	QPSK	270	0	2358	2358	24.0	1.0
100	16QAM	1	1	2359	2359	24.0	1.0
100	64QAM	1	1	2370	2370	22.5	2.5
100	256QAM	1	1	1925	1925	20.5	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	2363	2360	23.63	23.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	2360	2364	23.63	25.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	2358	2361	23.62	25.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	2360	2364	23.63	25.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	2352	2364	23.60	25.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	2358	2368	23.61	25.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	2357	2363	23.65	25.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	2360	2363	23.60	25.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	2357	2363	23.65	25.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	2355	2370	23.65	25.0



Part27Q n78_Ant 10									
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	2173	2173	2173			
100	PI2 BPSK	1	137	2170	2170	2170	23.0	0.0	
100	PI2 BPSK	1	271	2168	2168	2168			
100	PI2 BPSK	135	0	2167	2167	2167	23.0	0.0	
100	PI2 BPSK	135	69	2170	2170	2170	23.0	0.0	
100	PI2 BPSK	135	138	2168	2168	2168	23.0	0.0	
100	PI2 BPSK	270	0	2173	2173	2173			
100	QPSK	1	1	2173	2173	2173			
100	QPSK	1	137	2170	2170	2170	23.0	0.0	
100	QPSK	1	271	2174	2174	2174			
100	QPSK	135	0	2172	2172	2172	23.0	0.0	
100	QPSK	135	69	2177	2177	2177	23.0	0.0	
100	QPSK	135	138	2172	2172	2172	23.0	0.0	
100	QPSK	270	0	2175	2175	2175	23.0	0.0	
100	16QAM	1	1	2169	2169	2169	23.0	0.0	
100	64QAM	1	1	2145	2145	2145	22.5	0.5	
100	256QAM	1	1	1947	1947	1947	20.5	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	2172	2171	2168	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	2180	2169	2160	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	2169	2168	2167	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	2180	2168	2169	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	2167	2162	2158	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	2176	2160	2160	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2179	2160	2160	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	2179	2162	2167	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	2171	2157	2156	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	2170	2160	2160	23.0	0.0	

Part27Q n78_Ant 10_HPUE									
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	2373	2373	2373			
100	PI2 BPSK	1	137	2370	2370	2370	25.0	0.0	
100	PI2 BPSK	1	271	2368	2368	2368			
100	PI2 BPSK	135	0	2377	2377	2377	24.5	0.5	
100	PI2 BPSK	135	69	2370	2370	2370	25.0	0.0	
100	PI2 BPSK	135	138	2368	2368	2368	24.5	0.5	
100	PI2 BPSK	270	0	2373	2373	2373			
100	QPSK	1	1	2373	2373	2373			
100	QPSK	1	137	2370	2370	2370	25.0	0.0	
100	QPSK	1	271	2374	2374	2374			
100	QPSK	135	0	2372	2372	2372	25.0	0.0	
100	QPSK	135	69	2377	2377	2377	25.0	0.0	
100	QPSK	135	138	2372	2372	2372	25.0	0.0	
100	QPSK	270	0	2375	2375	2375	24.0	1.0	
100	16QAM	1	1	2374	2374	2374	24.0	1.0	
100	64QAM	1	1	2146	2146	2146	22.5	2.5	
100	256QAM	1	1	1928	1928	1928	20.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	2365	2371	2373	25.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	2365	2371	2378	25.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	2371	2366	2372	25.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	2374	2370	2371	25.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	2371	2372	2377	25.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	2365	2372	2372	25.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	2373	2368	2378	25.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	2368	2368	2369	25.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	2372	2365	2378	25.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	2365	2371	2372	25.0	0.0	



Reduced Power Mode for DS16

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)				1860	1880	1900			
20	PI2 BPSK	1	1	19.18	19.37	19.24			
20	PI2 BPSK	1	53	19.27	19.40	19.26	20.5	0.0	
20	PI2 BPSK	1	104	19.16	19.39	19.27			
20	PI2 BPSK	50	0	19.21	19.35	19.32	20.5	0.0	
20	PI2 BPSK	50	28	19.26	19.38	19.19	20.5	0.0	
20	PI2 BPSK	50	56	19.29	19.34	19.22	20.5	0.0	
20	PI2 BPSK	100	0	19.22	19.36	19.19			
20	QPSK	1	1	19.34	19.44	19.37			
20	QPSK	1	53	19.27	19.31	19.16	20.5	0.0	
20	QPSK	1	104	19.30	19.32	19.20			
20	QPSK	50	0	19.19	19.32	19.26	20.5	0.0	
20	QPSK	50	28	19.20	19.36	19.32	20.5	0.0	
20	QPSK	50	56	19.16	19.32	19.31	20.5	0.0	
20	QPSK	100	0	19.22	19.43	19.23	20.5	0.0	
20	8QAM	1	1	19.23	19.43	19.30	20.5	0.0	
20	8QAM	1	1	19.18	19.31	19.29	20.5	0.0	
20	256QAM	1	1	19.27	19.32	19.19	20.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1872.5	1900	1927.5			
15	QPSK	1	1	19.24	19.42	19.28	20.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1890	1915			
10	QPSK	1	1	19.30	19.43	19.28	20.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1890	1917.5			
5	QPSK	1	1	19.21	19.42	19.22	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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	19.00	19.13	19.15			
20	PI2 BPSK	1	53	19.07	19.13	19.05	21.0	0.0	
20	PI2 BPSK	1	104	19.00	19.16	19.10			
20	PI2 BPSK	50	0	19.11	19.15	19.04	21.0	0.0	
20	PI2 BPSK	50	28	19.04	19.12	19.03	21.0	0.0	
20	PI2 BPSK	50	56	19.03	19.07	19.16	21.0	0.0	
20	PI2 BPSK	100	0	19.11	19.09	19.07			
20	QPSK	1	1	19.12	19.18	19.13			
20	QPSK	1	53	19.04	19.13	19.03	21.0	0.0	
20	QPSK	1	104	19.08	19.15	19.12			
20	QPSK	50	0	19.07	19.07	19.08	21.0	0.0	
20	QPSK	50	28	19.05	19.11	19.10	21.0	0.0	
20	QPSK	50	56	19.03	19.08	19.02	21.0	0.0	
20	QPSK	100	0	19.01	19.10	19.06			
20	8QAM	1	1	19.07	19.17	19.14	21.0	0.0	
20	8QAM	1	1	19.08	19.10	19.15	21.0	0.0	
20	256QAM	1	1	19.40	19.50	19.38	19.5	1.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1872.5	1900	1927.5			
15	QPSK	1	1	19.03	19.13	19.09	21.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1865	1890	1915			
10	QPSK	1	1	19.00	19.13	19.07	21.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1862.5	1890	1917.5			
5	QPSK	1	1	19.13	19.18	19.08	21.0	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				166000	167200	167800			
Frequency (MHz)				830	835.5	839			
20	PI2 BPSK	1	1	22.89	22.96	22.76			
20	PI2 BPSK	1	53	22.88	22.84	22.79	24.0	0.0	
20	PI2 BPSK	1	104	22.81	22.90	22.79			
20	PI2 BPSK	50	0	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.83	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.76	24.0	0.0	
20	PI2 BPSK	100	0	22.76	22.81	22.72			
20	QPSK	1	1	22.92	22.97	22.80			
20	QPSK	1	53	22.81	22.78	22.73	24.0	0.0	
20	QPSK	1	104	22.83	22.79	22.72			
20	QPSK	50	0	22.76	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.75	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.68			
20	16QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	16QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	831.5	836.5			
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	831.5	834			
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				166300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				836.5	836.5	846.5			
5	QPSK	1	1	22.84	22.83	22.78	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	PI2 BPSK	1	1	22.70	22.72	22.63				
20	PI2 BPSK	1	53	22.67	22.75	22.68	24.0	0.0		
20	PI2 BPSK	1	104	22.70	22.73	22.63				
20	PI2 BPSK	50	0	22.50	22.71	22.52	24.0	0.0		
20	PI2 BPSK	50	28	22.67	22.75	22.60	24.0	0.0		
20	PI2 BPSK	50	56	22.58	22.71	22.58	24.0	0.0		
20	PI2 BPSK	100	0	22.58	22.64	22.55				
20	QPSK	1	1	22.73	22.76	22.65				
20	QPSK	1	53	22.61	22.66	22.50	24.0	0.0		
20	QPSK	1	104	22.57	22.68	22.50				
20	QPSK	50	0	22.61	22.68	22.52	24.0	0.0		
20	QPSK	50	28	22.62	22.72	22.57	24.0	0.0		
20	QPSK	50	56	22.61	22.67	22.50	24.0	0.0		
20	QPSK	100	0	22.60	22.64	22.49				
20	16QAM	1	1	22.63	22.61	22.65	24.0	0.0		
20	64QAM	1	1	21.34	21.45	21.37	22.5	1.5		
20	256QAM	1	1	19.33	19.36	19.28	20.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.66	22.73	22.55	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.63	22.73	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.63	22.72	22.49	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	19.85	19.88	19.79				
40	PI2 BPSK	1	108	19.82	19.80	19.82	21.0	0.0		
40	PI2 BPSK	1	214	19.86	19.86	19.82				
40	PI2 BPSK	108	0	19.83	19.83	19.81	21.0	0.0		
40	PI2 BPSK	108	54	19.83	19.83	19.81	21.0	0.0		
40	PI2 BPSK	108	108	19.81	19.89	19.88				
40	PI2 BPSK	216	0	19.88	19.87	19.84	21.0	0.0		
40	QPSK	1	1	19.87	20.00	19.84				
40	QPSK	1	108	19.85	19.82	19.87	21.0	0.0		
40	QPSK	1	214	19.84	19.81	19.83				
40	QPSK	108	0	19.85	19.87	19.88	21.0	0.0		
40	QPSK	108	54	19.83	19.81	19.80	21.0	0.0		
40	QPSK	108	108	19.87	19.80	19.85	21.0	0.0		
40	QPSK	216	0	19.83	19.83	19.82				
40	16QAM	1	1	19.87	19.86	19.80	21.0	0.0		
40	64QAM	1	1	19.86	19.86	19.81	21.0	0.0		
40	256QAM	1	1	18.62	18.65	18.76	19.5	1.5		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.87	19.88	19.82	21.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	19.80	19.86	19.83	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.80	19.89	19.81	21.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.84	19.83	19.81	21.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.85	19.86	19.89	21.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	19.85	19.89	19.82	21.0	0.0		

n7_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)										
40	PI2 BPSK	1	1	20.98	20.96	20.97				
40	PI2 BPSK	1	108	20.99	20.92	20.90	22.0	0.0		
40	PI2 BPSK	1	214	20.96	20.95	20.97				
40	PI2 BPSK	108	0	20.87	20.96	20.96	22.0	0.0		
40	PI2 BPSK	108	54	20.88	20.98	20.96	22.0	0.0		
40	PI2 BPSK	108	108	20.92	20.92	21.01				
40	PI2 BPSK	216	0	20.90	21.02	20.88	22.0	0.0		
40	QPSK	1	1	21.00	21.07	21.03				
40	QPSK	1	108	20.89	20.96	21.01	22.0	0.0		
40	QPSK	1	214	20.97	20.97	21.01				
40	QPSK	108	0	20.89	20.98	20.99	22.0	0.0		
40	QPSK	108	54	20.95	21.05	21.00	22.0	0.0		
40	QPSK	108	108	20.91	20.95	20.93	22.0	0.0		
40	QPSK	216	0	20.91	21.02	20.82				
40	16QAM	1	1	20.91	20.94	20.91	22.0	0.0		
40	64QAM	1	1	20.87	20.93	20.90	22.0	0.0		
40	256QAM	1	1	20.38	20.46	20.43	21.0	1.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.91	21.06	20.94	22.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	20.98	21.00	20.93	22.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.94	20.99	21.01	22.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.91	21.04	21.02	22.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.98	20.96	21.00	22.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	20.93	20.96	20.99	22.0	0.0		



n12_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)										
15	PI2 BPSK	1	1	22.89	22.90	22.87				
15	PI2 BPSK	1	40	22.87	22.83	22.77	24.0	0.0		
15	PI2 BPSK	1	77	22.78	22.87	22.84				
15	PI2 BPSK	36	0	22.80	22.80	22.69	24.0	0.0		
15	PI2 BPSK	36	22	22.81	22.88	22.78	24.0	0.0		
15	PI2 BPSK	36	43	22.71	22.81	22.75				
15	PI2 BPSK	12	0	22.74	22.85	22.71	24.0	0.0		
15	QPSK	1	1	22.85	22.82	22.82				
15	QPSK	1	40	22.71	22.85	22.72	24.0	0.0		
15	QPSK	1	77	22.74	22.77	22.70				
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0		
15	QPSK	36	22	22.71	22.83	22.73	24.0	0.0		
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0		
15	QPSK	75	0	22.76	22.77	22.76				
15	16QAM	1	1	22.78	22.83	22.76	24.0	0.0		
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5		
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0		

n12_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)										
15	PI2 BPSK	1	1	23.31	23.36	23.34				
15	PI2 BPSK	1	40	23.23	23.31	23.23	24.0	0.0		
15	PI2 BPSK	1	77	23.26	23.33	23.31				
15	PI2 BPSK	36	0	23.20	23.30	23.23	24.0	0.0		
15	PI2 BPSK	36	22	23.22	23.33	23.25	24.0	0.0		
15	PI2 BPSK	36	43	23.11	23.24	23.17				
15	PI2 BPSK	12	0	23.21	23.30	23.17	24.0	0.0		
15	QPSK	1	1	23.27	23.37	23.30				
15	QPSK	1	40	23.16	23.22	23.19	24.0	0.0		
15	QPSK	1	77	23.11	23.27	23.18				
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0		
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0		
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0		
15	QPSK	75	0	23.12	23.29	23.23				
15	16QAM	1	1	23.19	23.32	23.15	24.0	0.0		
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.5		
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.18	23.32	23.23	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0		

n14_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)										
10	PI2 BPSK	1	1		22.92					
10	PI2 BPSK	1	26		22.91		24.0	0.0		
10	PI2 BPSK	1	55		22.89					
10	PI2 BPSK	25	0		22.82		24.0	0.0		
10	PI2 BPSK	25	14		22.81		24.0	0.0		
10	PI2 BPSK	25	27		22.82					
10	PI2 BPSK	50	0		22.80		24.0	0.0		
10	QPSK	1	1		22.83					
10	QPSK	1	26		22.84		24.0	0.0		
10	QPSK	1	50		22.89					
10	QPSK	25	0		22.83		24.0	0.0		
10	QPSK	25	14		22.85		24.0	0.0		
10	QPSK	25	27		22.80					
10	QPSK	50	0		22.84		24.0	0.0		
10	16QAM	1	1		22.85		24.0	0.0		
10	64QAM	1	1		22.22		23.0	1.0		
10	256QAM	1	1		20.05		21.0	3.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0		



n14_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)										
10	PI2 BPSK	1	1	22.60	795					
10	PI2 BPSK	1	26	22.54			24.0	0.0		
10	PI2 BPSK	1	50	22.54						
10	PI2 BPSK	25	0	22.51			24.0	0.0		
10	PI2 BPSK	25	14	22.53			24.0	0.0		
10	PI2 BPSK	25	27	22.49			24.0	0.0		
10	PI2 BPSK	50	0	22.51						
10	QPSK	1	1	22.52						
10	QPSK	1	26	22.50			24.0	0.0		
10	QPSK	1	50	22.55						
10	QPSK	25	0	22.49			24.0	0.0		
10	QPSK	25	14	22.57			24.0	0.0		
10	QPSK	25	27	22.50			24.0	0.0		
10	QPSK	50	0	22.54			24.0	0.0		
10	64QAM	1	1	22.49			23.0	1.0		
10	64QAM	1	1	22.00			21.0	3.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.52	22.51	22.58	24.0	0.0		

n25_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	19.27	19.28	19.23				
40	PI2 BPSK	1	108	19.28	19.29	19.21	20.5	0.0		
40	PI2 BPSK	1	214	19.29	19.25	19.28				
40	PI2 BPSK	108	0	19.20	19.23	19.30	20.5	0.0		
40	PI2 BPSK	108	54	19.27	19.34	19.28	20.5	0.0		
40	PI2 BPSK	108	108	19.28	19.32	19.21	20.5	0.0		
40	PI2 BPSK	216	0	19.20	19.24	19.27				
40	QPSK	1	1	19.31	19.45	19.33				
40	QPSK	1	108	19.16	19.20	19.24	20.5	0.0		
40	QPSK	1	214	19.24	19.32	19.31				
40	QPSK	108	0	19.26	19.34	19.29	20.5	0.0		
40	QPSK	108	54	19.23	19.35	19.30	20.5	0.0		
40	QPSK	108	108	19.20	19.23	19.19	20.5	0.0		
40	QPSK	216	0	19.17	19.23	19.20				
40	64QAM	1	1	19.23	19.23	19.29	20.5	0.0		
40	64QAM	1	1	19.17	19.37	19.25	20.5	0.0		
40	256QAM	1	1	19.30	19.27	19.30	20.5	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	19.17	19.29	19.31	20.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.23	19.26	19.30	20.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	19.21	19.23	19.25	20.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.16	19.37	19.23	20.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.30	19.35	19.31	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.24	19.30	19.22	20.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	19.19	19.28	19.24	20.5	0.0		

n25_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	19.00	19.18	19.08				
40	PI2 BPSK	1	108	19.05	19.08	19.15	21.0	0.0		
40	PI2 BPSK	1	214	19.01	19.19	19.08				
40	PI2 BPSK	108	0	19.12	19.09	19.08	21.0	0.0		
40	PI2 BPSK	108	54	19.07	19.13	19.12	21.0	0.0		
40	PI2 BPSK	108	108	19.06	19.19	19.13	21.0	0.0		
40	PI2 BPSK	216	0	19.05	19.08	19.08				
40	QPSK	1	1	19.14	19.20	19.17				
40	QPSK	1	108	19.09	19.05	19.09	21.0	0.0		
40	QPSK	1	214	19.11	19.13	19.16				
40	QPSK	108	0	19.05	19.08	19.03	21.0	0.0		
40	QPSK	108	54	19.03	19.14	19.13	21.0	0.0		
40	QPSK	108	108	19.03	19.13	19.03	21.0	0.0		
40	QPSK	216	0	19.10	19.12	19.06				
40	64QAM	1	1	19.13	19.13	19.05	21.0	0.0		
40	64QAM	1	1	19.05	19.08	19.09	21.0	0.0		
40	256QAM	1	1	17.75	17.89	17.74	19.5	1.5		
Channel										
Frequency (MHz)										
35	QPSK	1	1	19.12	19.14	19.06	21.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.02	19.11	19.08	21.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	19.10	19.12	19.04	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.13	19.14	19.02	21.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.10	19.18	19.08	21.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.08	19.08	19.03	21.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	19.06	19.15	19.05	21.0	0.0		



n26_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				165900	166300	167800			
Frequency (MHz)				84.5	831.5	849			
20	PI2 BPSK	1	1	22.87	22.89	22.83			
20	PI2 BPSK	1	53	22.88	22.83	22.87	24.0	0.0	
20	PI2 BPSK	1	104	22.85	22.79	22.86			
20	PI2 BPSK	50	0	22.85	22.85	22.85	24.0	0.0	
20	PI2 BPSK	50	28	22.82	22.90	22.84			
20	PI2 BPSK	50	56	22.87	22.86	22.86			
20	PI2 BPSK	100	0	22.80	22.80	22.81	24.0	0.0	
20	QPSK	1	1	22.99	22.98	23.02			
20	QPSK	1	53	22.90	22.81	22.86	24.0	0.0	
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	28	22.87	22.85	22.86			
20	QPSK	50	56	22.82	22.81	22.85			
20	QPSK	100	0	22.80	22.79	22.83	24.0	0.0	
20	16QAM	1	1	22.96	22.85	22.85	24.0	0.0	
20	16QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel				163300	163300	163300	Tune-up limit	MPR	
Frequency (MHz)				811.5	831.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel				163000	166300	166000	Tune-up limit	MPR	
Frequency (MHz)				810	831.5	844	(dBm)	(dB)	
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel				163300	166300	166300	Tune-up limit	MPR	
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	22.92	22.88	22.88	24.0	0.0	

n26_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit	MPR	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				164900	166300	167800			
Frequency (MHz)				841	831.5	849			
20	PI2 BPSK	1	1	22.86	22.88	22.87			
20	PI2 BPSK	1	53	22.88	22.78	22.80	24.0	0.0	
20	PI2 BPSK	1	104	22.80	22.78	22.81			
20	PI2 BPSK	50	0	22.89	22.87	22.85	24.0	0.0	
20	PI2 BPSK	50	28	22.80	22.85	22.82			
20	PI2 BPSK	50	56	22.85	22.80	22.81			
20	PI2 BPSK	100	0	22.80	22.82	22.85	24.0	0.0	
20	QPSK	1	1	22.99	22.97	23.00			
20	QPSK	1	53	22.95	22.92	22.92	24.0	0.0	
20	QPSK	1	104	22.94	22.87	22.93			
20	QPSK	50	0	22.85	22.81	22.86	24.0	0.0	
20	QPSK	50	28	22.90	22.89	22.95			
20	QPSK	50	56	22.83	22.87	22.81			
20	QPSK	100	0	22.85	22.84	22.86	24.0	0.0	
20	16QAM	1	1	22.83	22.87	22.80	24.0	0.0	
20	16QAM	1	1	21.56	21.56	21.63	23.0	1.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0	
Channel				164300	166300	166300	Tune-up limit	MPR	
Frequency (MHz)				811.5	831.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0	
Channel				163000	166300	166000	Tune-up limit	MPR	
Frequency (MHz)				810	831.5	844	(dBm)	(dB)	
10	QPSK	1	1	22.88	22.86	22.81	24.0	0.0	
Channel				163300	166300	166000	Tune-up limit	MPR	
Frequency (MHz)				816.5	831.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	22.85	22.87	22.88	24.0	0.0	



n30_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				460000				
Frequency (MHz)				2410				
10	PI2 BPSK	1	1	20.08			22.0	0.0
10	PI2 BPSK	1	26	20.15				
10	PI2 BPSK	1	50	20.07			22.0	0.0
10	PI2 BPSK	25	0	20.11				
10	PI2 BPSK	25	14	20.13			22.0	0.0
10	PI2 BPSK	25	27	20.06				
10	PI2 BPSK	50	0	20.12			22.0	0.0
10	QPSK	1	1	20.16				
10	QPSK	1	26	20.16			22.0	0.0
10	QPSK	1	50	20.04				
10	QPSK	25	0	20.05			22.0	0.0
10	QPSK	25	14	20.15				
10	QPSK	25	27	20.06			22.0	0.0
10	QPSK	50	0	20.13				
10	16QAM	1	1	20.05			22.0	0.0
10	16QAM	1	1	19.75				
10	256QAM	1	1	17.61			19.5	2.5
10	256QAM	1	1	19.5				
Channel				481500		460000		
Frequency (MHz)				2307.5		2312.5		
5	QPSK	1	1	20.05	20.16	20.06	22.0	0.0

n30_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)	MFR (dB)
Channel				460000				
Frequency (MHz)				2410				
10	PI2 BPSK	1	1	21.00			22.0	0.0
10	PI2 BPSK	1	26	20.91				
10	PI2 BPSK	1	50	20.80			22.0	0.0
10	PI2 BPSK	25	0	20.77				
10	PI2 BPSK	25	14	20.90			22.0	0.0
10	PI2 BPSK	25	27	20.71				
10	PI2 BPSK	50	0	21.02			22.0	0.0
10	QPSK	1	1	21.06				
10	QPSK	1	26	20.95			22.0	0.0
10	QPSK	1	50	20.89				
10	QPSK	25	0	20.86			22.0	0.0
10	QPSK	25	14	20.97				
10	QPSK	25	27	20.79			22.0	0.0
10	QPSK	50	0	21.04				
10	16QAM	1	1	21.02			22.0	0.0
10	16QAM	1	1	20.93				
10	256QAM	1	1	20.88			21.0	1.0
10	256QAM	1	1	19.5				
Channel				481500		460000		
Frequency (MHz)				2307.5		2312.5		
5	QPSK	1	1	21.04	21.00	20.88	22.0	0.0



n66_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	19.95	19.98	19.95				
40	PI2 BPSK	1	108	19.89	19.97	19.88	21.0	0.0		
40	PI2 BPSK	1	214	19.95	19.90	19.88				
40	PI2 BPSK	108	0	19.95	19.99	19.94	21.0	0.0		
40	PI2 BPSK	108	54	19.88	20.00	19.88	21.0	0.0		
40	PI2 BPSK	108	108	19.87	20.03	19.88				
40	PI2 BPSK	216	0	19.91	19.95	19.89	21.0	0.0		
40	QPSK	1	1	19.95	19.95	19.95				
40	QPSK	1	108	19.85	20.02	19.89	21.0	0.0		
40	QPSK	1	214	19.88	20.04	19.97				
40	QPSK	108	0	19.85	19.98	19.89	21.0	0.0		
40	QPSK	108	54	19.95	20.00	19.95	21.0	0.0		
40	QPSK	108	108	19.91	19.97	19.93	21.0	0.0		
40	QPSK	216	0	19.92	20.02	19.87				
40	16QAM	1	1	19.97	20.03	20.00	21.0	0.0		
40	64QAM	1	1	19.92	20.00	20.00	21.0	0.0		
40	256QAM	1	1	19.86	20.01	19.89	21.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	19.85	19.85	20.01	21.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.93	19.97	19.87	21.0	0.0		
Channel										
Frequency (MHz)										
34500	QPSK	34900	35300				Tune-up limit (dBm)	MPR (dB)		
1722.5	1745	1767.5	(dBm)	(dB)						
Channel										
Frequency (MHz)										
25	QPSK	1	1	19.97	20.03	19.89	21.0	0.0		
Channel										
Frequency (MHz)										
34400	QPSK	34900	35400				Tune-up limit (dBm)	MPR (dB)		
1720	1745	1770	(dBm)	(dB)						
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.93	19.96	19.93	21.0	0.0		
Channel										
Frequency (MHz)										
1717.5	1745	1772.5	(dBm)	(dB)						
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.92	19.93	19.87	21.0	0.0		
Channel										
Frequency (MHz)										
34300	QPSK	34900	35500				Tune-up limit (dBm)	MPR (dB)		
1715	1745	1775	(dBm)	(dB)						
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.93	19.99	19.87	21.0	0.0		
Channel										
Frequency (MHz)										
34200	QPSK	34900	35500				Tune-up limit (dBm)	MPR (dB)		
1722.5	1745	1772.5	(dBm)	(dB)						
Channel										
Frequency (MHz)										
5	QPSK	1	1	19.92	19.90	19.89	21.0	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)										
40	PI2 BPSK	1	1	20.11	20.18	20.21				
40	PI2 BPSK	1	108	20.16	20.20	20.21	21.0	0.0		
40	PI2 BPSK	1	214	20.08	20.18	20.19				
40	PI2 BPSK	108	0	20.17	20.20	20.23	21.0	0.0		
40	PI2 BPSK	108	54	20.14	20.15	20.21	21.0	0.0		
40	PI2 BPSK	108	108	20.17	20.22	20.16				
40	PI2 BPSK	216	0	20.12	20.13	20.19	21.0	0.0		
40	QPSK	1	1	20.22	20.28	20.24				
40	QPSK	1	108	20.08	20.21	20.18	21.0	0.0		
40	QPSK	1	214	20.13	20.19	20.23				
40	QPSK	108	0	20.10	20.15	20.14	21.0	0.0		
40	QPSK	108	54	20.14	20.19	20.15	21.0	0.0		
40	QPSK	108	108	20.13	20.17	20.17	21.0	0.0		
40	QPSK	216	0	20.11	20.16	20.12				
40	16QAM	1	1	20.09	20.18	20.23	21.0	0.0		
40	64QAM	1	1	20.19	20.16	20.13	21.0	0.0		
40	256QAM	1	1	18.84	18.86	18.83	19.5	1.5		
Channel										
Frequency (MHz)										
35	QPSK	1	1	20.07	20.24	20.10	21.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.17	20.17	20.10	21.0	0.0		
Channel										
Frequency (MHz)										
34400	QPSK	34900	35300				Tune-up limit (dBm)	MPR (dB)		
1722.5	1745	1767.5	(dBm)	(dB)						
Channel										
Frequency (MHz)										
25	QPSK	1	1	20.07	20.24	20.23	21.0	0.0		
Channel										
Frequency (MHz)										
34400	QPSK	34900	35400				Tune-up limit (dBm)	MPR (dB)		
1720	1745	1770	(dBm)	(dB)						
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.14	20.19	20.20	21.0	0.0		
Channel										
Frequency (MHz)										
1717.5	1745	1772.5	(dBm)	(dB)						
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.16	20.16	20.13	21.0	0.0		
Channel										
Frequency (MHz)										
34300	QPSK	34900	35500				Tune-up limit (dBm)	MPR (dB)		
1715	1745	1775	(dBm)	(dB)						
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.19	20.16	20.21	21.0	0.0		
Channel										
Frequency (MHz)										
34200	QPSK	34900	35500				Tune-up limit (dBm)	MPR (dB)		
1722.5	1745	1772.5	(dBm)	(dB)						
Channel										
Frequency (MHz)										
5	QPSK	1	1	20.10	20.18	20.15	21.0	0.0		

n70_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)										
15	PI2 BPSK	1	1			20.68				
15	PI2 BPSK	1	40			20.78			22.0	0.0
15	PI2 BPSK	1	77			20.72				
15	PI2 BPSK	36	0			20.75			22.0	0.0
15	PI2 BPSK	36	22			20.73			22.0	0.0
15	PI2 BPSK	36	43			20.67			22.0	0.0
15	PI2 BPSK	75	0			20.69				
15	QPSK	1	1			20.82				
15	QPSK	1	40			20.73			22.0	0.0
15	QPSK	1	77			20.73				
15	QPSK	36	0			20.68			22.0	0.0
15	QPSK	36	22			20.70			22.0	0.0
15	QPSK	36	43			20.67			22.0	0.0
15	QPSK	75	0			20.75				
15	16QAM	1	1			20.78			22.0	0.0
15	64QAM	1	1			20.74			22.0	0.0
15	256QAM	1	1			20.35			21.5	0.5
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.81	20.77	20.68	22.0	0.0		
Channel										
Frequency (MHz)										
33900	QPSK	34500	34100				Tune-up limit (dBm)	MPR (dB)		
1708	1702.5	1707.5	(dBm)	(dB)						
Channel										
Frequency (MHz)										
5	QPSK	1	1	20.70	20.69	20.81	22.0	0.0		



n70_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)									
15	PI2 BPSK	1	1	21.87					
15	PI2 BPSK	1	40	21.84			22.5	0.0	
15	PI2 BPSK	1	77	21.86					
15	PI2 BPSK	36	0	21.87			22.5	0.0	
15	PI2 BPSK	36	22	21.85			22.5	0.0	
15	PI2 BPSK	36	43	21.87			22.5	0.0	
15	PI2 BPSK	12	0	21.82					
15	QPSK	1	1	21.90					
15	QPSK	1	40	21.83			22.5	0.0	
15	QPSK	1	77	21.81					
15	QPSK	36	0	21.84			22.5	0.0	
15	QPSK	36	22	21.83			22.5	0.0	
15	QPSK	36	43	21.77			22.5	0.0	
15	QPSK	75	0	21.85					
15	16QAM	1	1	21.87					
15	64QAM	1	1	20.95			21.5	1.0	
15	256QAM	1	1	18.96			19.5	3.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.82	21.85	21.86	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	21.82	21.85	21.86	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.81	21.81	21.75	Tune-up limit (dBm)	MPR (dB)	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.09	23.03			
30	PI2 BPSK	1	80	23.01	23.04	22.92	24.0	0.0	
30	PI2 BPSK	1	158	23.00	23.08	23.01			
30	PI2 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	PI2 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	PI2 BPSK	80	80	22.91	23.02	22.92	24.0	0.0	
30	PI2 BPSK	160	0	22.95	22.99	22.98			
30	QPSK	1	1	23.02	23.10	23.01			
30	QPSK	1	80	22.94	22.98	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97			
30	QPSK	80	0	22.89	22.93	22.91	24.0	0.0	
30	QPSK	80	40	22.91	22.96	22.93	24.0	0.0	
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.95	22.96			
30	16QAM	1	1	22.90	22.93	22.93	24.0	0.0	
30	64QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.93	22.97	22.98	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	22.90	22.92	22.96	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.90	22.99	22.92	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.90	22.92	22.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.97	22.94	23.00	Tune-up limit (dBm)	MPR (dB)	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.13	23.13			
30	PI2 BPSK	1	80	23.15	23.16	23.10	24.0	0.0	
30	PI2 BPSK	1	158	23.18	23.24	23.20			
30	PI2 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	PI2 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	PI2 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	PI2 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09			
30	QPSK	80	0	23.09	23.09	23.11	24.0	0.0	
30	QPSK	80	40	23.13	23.19	23.17	24.0	0.0	
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06			
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0	
30	64QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.10	23.15	23.14	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	23.07	23.11	23.11	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.13	23.14	23.12	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.11	23.11	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.17	23.09	Tune-up limit (dBm)	MPR (dB)	



n38_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									
				518004	518000	518996			
Frequency (MHz)									
40	PI2 BPSK	1	1	20.11	20.13	20.14			
40	PI2 BPSK	1	53	20.13	20.15	20.17	22.0	0.0	
40	PI2 BPSK	1	104	20.17	20.21	20.20			
40	PI2 BPSK	50	0	20.20	20.22	20.18	22.0	0.0	
40	PI2 BPSK	50	28	20.14	20.26	20.17	22.0	0.0	
40	PI2 BPSK	50	56	20.26	20.18	20.28	22.0	0.0	
40	PI2 BPSK	100	0	20.12	20.28	20.15			
40	QPSK	1	1	20.30	20.39	20.31			
40	QPSK	1	53	20.31	20.16	20.30	22.0	0.0	
40	QPSK	1	104	20.10	20.16	20.23			
40	QPSK	50	0	20.23	20.31	20.08			
40	QPSK	50	28	20.26	20.35	20.23	22.0	0.0	
40	QPSK	50	56	20.27	20.20	20.13			
40	QPSK	100	0	20.12	20.24	20.18	22.0	0.0	
40	16QAM	1	1	20.09	20.28	20.17	22.0	0.0	
40	16QAM	1	1	20.08	20.02	20.06	21.5	0.5	
40	16QAM	1	1	18.44	18.55	18.43	19.8	2.5	
Channel									
				517002	518000	509998	Tune-up limit	MPR	
Frequency (MHz)									
30	QPSK	1	1	20.33	20.38	20.20	22.0	0.0	
Channel									
				518000	518000	520000	Tune-up limit	MPR	
Frequency (MHz)									
20	QPSK	1	1	20.25	20.36	20.30	22.0	0.0	
Channel									
				515002	518000	520998	Tune-up limit	MPR	
Frequency (MHz)									
15	QPSK	1	1	20.20	20.26	20.29	22.0	0.0	
Channel									
				518004	518000	522996	Tune-up limit	MPR	
Frequency (MHz)									
10	QPSK	1	1	20.32	20.24	20.29	22.0	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									
				518004	518000	518996			
Frequency (MHz)									
40	PI2 BPSK	1	1	21.30	21.45	21.39			
40	PI2 BPSK	1	53	21.33	21.41	21.41	22.5	0.0	
40	PI2 BPSK	1	104	21.33	21.42	21.28			
40	PI2 BPSK	50	0	21.30	21.46	21.38	22.5	0.0	
40	PI2 BPSK	50	28	21.36	21.47	21.38	22.5	0.0	
40	PI2 BPSK	50	56	21.37	21.47	21.32	22.5	0.0	
40	PI2 BPSK	100	0	21.30	21.35	21.35			
40	QPSK	1	1	21.44	21.49	21.42			
40	QPSK	1	53	21.36	21.46	21.40	22.5	0.0	
40	QPSK	1	104	21.39	21.42	21.41			
40	QPSK	50	0	21.33	21.40	21.32			
40	QPSK	50	28	21.36	21.42	21.34	22.5	0.0	
40	QPSK	50	56	21.30	21.40	21.28			
40	QPSK	100	0	21.30	21.40	21.38	22.5	0.0	
40	16QAM	1	1	21.31	21.46	21.30	22.5	0.0	
40	16QAM	1	1	21.39	21.40	21.29	22.5	0.0	
40	16QAM	1	1	20.91	20.94	20.92	21.5	1.0	
Channel									
				517002	518000	509998	Tune-up limit	MPR	
Frequency (MHz)									
30	QPSK	1	1	21.35	21.35	21.38	22.5	0.0	
Channel									
				518000	518000	520000	Tune-up limit	MPR	
Frequency (MHz)									
20	QPSK	1	1	21.39	21.36	21.34	22.5	0.0	
Channel									
				515002	518000	520998	Tune-up limit	MPR	
Frequency (MHz)									
15	QPSK	1	1	21.36	21.37	21.33	22.5	0.0	
Channel									
				518004	518000	522996	Tune-up limit	MPR	
Frequency (MHz)									
10	QPSK	1	1	21.29	21.47	21.27	22.5	0.0	

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									
				506002	518998	528000			
Frequency (MHz)									
100	PI2 BPSK	1	1	20.29	20.39	20.24			
100	PI2 BPSK	1	137	20.28	20.27	20.26	22.0	0.0	
100	PI2 BPSK	1	271	20.29	20.35	20.30			
100	PI2 BPSK	135	0	20.26	20.32	20.28	22.0	0.0	
100	PI2 BPSK	135	69	20.34	20.41	20.31	22.0	0.0	
100	PI2 BPSK	135	138	20.32	20.27	20.30	22.0	0.0	
100	PI2 BPSK	270	0	20.22	20.30	20.33			
100	QPSK	1	1	20.35	20.42	20.36			
100	QPSK	1	137	20.33	20.30	20.34	22.0	0.0	
100	QPSK	1	271	20.23	20.29	20.28			
100	QPSK	135	0	20.27	20.33	20.23			
100	QPSK	135	69	20.34	20.37	20.32	22.0	0.0	
100	QPSK	135	138	20.31	20.30	20.27			
100	QPSK	270	0	20.21	20.28	20.28	22.0	0.0	
100	16QAM	1	1	20.22	20.40	20.26	22.0	0.0	
100	16QAM	1	1	20.21	20.29	20.36	22.0	0.0	
100	16QAM	1	1	20.20	20.33	20.29	21.5	0.5	
Channel									
				506000	518998	509998	Tune-up limit	MPR	
Frequency (MHz)									
80	QPSK	1	1	20.20	20.39	20.37	22.0	0.0	
Channel									
				507004	518998	526998	Tune-up limit	MPR	
Frequency (MHz)									
80	QPSK	1	1	20.38	20.42	20.49	22.0	0.0	
Channel									
				506000	518998	531998	Tune-up limit	MPR	
Frequency (MHz)									
70	QPSK	1	1	20.31	20.33	20.32	22.0	0.0	
Channel									
				505000	518998	531998	Tune-up limit	MPR	
Frequency (MHz)									
60	QPSK	1	1	20.30	20.38	20.23	22.0	0.0	
Channel									
				504004	518998	532998	Tune-up limit	MPR	
Frequency (MHz)									
50	QPSK	1	1	20.24	20.39	20.29	22.0	0.0	
Channel									
				503002	518998	530000	Tune-up limit	MPR	
Frequency (MHz)									
40	QPSK	1	1	20.34	20.30	20.35	22.0	0.0	
Channel									
				502002	518998	530998	Tune-up limit	MPR	
Frequency (MHz)									
30	QPSK	1	1	20.30	20.41	20.33	22.0	0.0	
Channel									
				501004	518998	530998	Tune-up limit	MPR	
Frequency (MHz)									
20	QPSK	1	1	20.33	20.28	20.24	22.0	0.0	
Channel									
				500700	518998	536498	Tune-up limit	MPR	
Frequency (MHz)									
15	QPSK	1	1	20.31	20.39	20.33	22.0	0.0	
Channel									
				500002	518998	537000	Tune-up limit	MPR	
Frequency (MHz)									
10	QPSK	1	1	20.28	20.27	20.34	22.0	0.0	



n41_Ant 1_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	High Ch. Freq.		
Channel				506002	518998	526000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	20.26	20.27	20.24		
100	PI2 BPSK	1	137	20.28	20.27	20.28	22.0	0.0
100	PI2 BPSK	1	271	20.29	20.30	20.30		
100	PI2 BPSK	135	0	20.26	20.32	20.28	22.0	0.0
100	PI2 BPSK	135	69	20.29	20.41	20.31	22.0	0.0
100	PI2 BPSK	135	138	20.32	20.27	20.30		
100	PI2 BPSK	270	0	20.22	20.30	20.33	22.0	0.0
100	QPSK	1	1	20.25	20.42	20.30		
100	QPSK	1	137	20.33	20.30	20.34	22.0	0.0
100	QPSK	1	271	20.23	20.29	20.28		
100	QPSK	135	0	20.27	20.33	20.23		
100	QPSK	135	69	20.28	20.27	20.25	22.0	0.0
100	QPSK	135	138	20.31	20.30	20.27		
100	QPSK	270	0	20.21	20.29	20.28	22.0	0.0
100	16QAM	1	1	20.22	20.40	20.26	22.0	0.0
100	16QAM	1	1	20.21	20.29	20.36	22.0	0.0
100	256QAM	1	1	20.20	20.33	20.29	22.0	0.0
Channel				506000	518998	526996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	20.20	20.39	20.37	22.0	0.0
Channel				507204	518998	526998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.28	20.37	20.31	22.0	0.0
Channel				508200	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	20.31	20.33	20.32	22.0	0.0
Channel				509200	518998	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2592.99	2659.98		
60	QPSK	1	1	20.30	20.38	20.23	22.0	0.0
Channel				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2621.02	2592.99	2654.99		
50	QPSK	1	1	20.24	20.39	20.29	22.0	0.0
Channel				505002	518998	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2616.01	2592.99	2670		
40	QPSK	1	1	20.34	20.30	20.35	22.0	0.0
Channel				502200	518998	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2592.99	2674.98		
30	QPSK	1	1	20.30	20.41	20.33	22.0	0.0
Channel				507204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2679.99		
20	QPSK	1	1	20.33	20.28	20.24	22.0	0.0
Channel				500700	518998	538498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.5	2592.99	2682.48		
15	QPSK	1	1	20.31	20.39	20.33	22.0	0.0
Channel				506002	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2601.01	2592.99	2685		
10	QPSK	1	1	20.20	20.27	20.34	22.0	0.0



n41_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				506002	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.31	20.44	20.29		
100	PI2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0
100	PI2 BPSK	1	271	20.21	20.27	20.22		
100	PI2 BPSK	135	0	20.16	20.28	20.20	22.0	0.0
100	PI2 BPSK	135	69	20.15	20.21	20.11	22.0	0.0
100	PI2 BPSK	135	138	20.11	20.23	20.21		
100	PI2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0
100	QPSK	1	1	20.34	20.49	20.34		
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0
100	QPSK	1	271	20.05	20.24	20.19		
100	QPSK	135	0	20.15	20.31	20.13		
100	QPSK	135	69	20.08	20.38	20.28	22.0	0.0
100	QPSK	135	138	20.05	20.11	20.08		
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0
100	64QAM	1	1	18.92	20.04	20.06	21.5	0.5
100	256QAM	1	1	18.02	18.26	18.11	20.0	2.0
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	20.23	20.41	20.20	22.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0
Channel				503000	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2692.99	2655		
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0
Channel				502000	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2692.99	2658.98		
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0
Channel				504204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2621.02	2692.99	2664.99		
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0
Channel				505002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2616.01	2692.99	2670		
40	QPSK	1	1	20.25	20.45	20.33	22.0	0.0
Channel				502000	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2674.98		
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0
Channel				507204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2606.02	2692.99	2679.99		
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.15	2692.99	2682.48		
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2601.01	2692.99	2685		
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0

n41_Ant 2_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				506002	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.43	22.48	22.22		
100	PI2 BPSK	1	137	22.08	22.22	22.16	24.0	0.0
100	PI2 BPSK	1	271	22.19	22.23	22.21		
100	PI2 BPSK	135	0	21.88	21.99	21.88	23.5	0.5
100	PI2 BPSK	135	69	22.08	22.10	22.08	24.0	0.0
100	PI2 BPSK	135	138	21.75	21.89	21.69	23.5	0.5
100	PI2 BPSK	270	0	21.75	21.88	21.74		
100	QPSK	1	1	22.43	22.51	22.44		
100	QPSK	1	137	22.28	22.37	22.31	24.0	0.0
100	QPSK	1	271	22.08	22.18	22.12		
100	QPSK	135	0	21.83	21.92	21.83		
100	QPSK	135	69	22.07	22.08	22.07	24.0	0.0
100	QPSK	135	138	21.45	21.46	21.34		
100	QPSK	270	0	21.31	21.35	21.29	23.0	1.0
100	16QAM	1	1	21.88	21.83	21.68	23.0	1.0
100	64QAM	1	1	20.91	20.92	20.29	21.5	2.5
100	256QAM	1	1	18.12	18.21	18.19	19.5	4.5
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	22.35	22.35	22.12	24.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.36	22.43	22.11	24.0	0.0
Channel				503000	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2692.99	2655		
70	QPSK	1	1	22.34	22.41	22.12	24.0	0.0
Channel				502000	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2626	2692.99	2658.98		
60	QPSK	1	1	22.37	22.40	22.15	24.0	0.0
Channel				504204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2621.02	2692.99	2664.99		
50	QPSK	1	1	22.32	22.43	22.18	24.0	0.0
Channel				505002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2616.01	2692.99	2670		
40	QPSK	1	1	22.34	22.30	22.21	24.0	0.0
Channel				502000	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611	2692.99	2674.98		
30	QPSK	1	1	22.42	22.42	22.15	24.0	0.0
Channel				507204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2606.02	2692.99	2679.99		
20	QPSK	1	1	22.34	22.39	22.18	24.0	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.15	2692.99	2682.48		
15	QPSK	1	1	22.41	22.36	22.17	24.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2601.01	2692.99	2685		
10	QPSK	1	1	22.37	22.34	22.18	24.0	0.0



n41_Ant 5									
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	23.04	23.10	22.97			
100	PI2 BPSK	1	137	22.97	23.06	22.86	24.0	0.0	
100	PI2 BPSK	1	271	22.81	22.89	22.86			
100	PI2 BPSK	135	0	22.96	23.11	22.86	24.0	0.0	
100	PI2 BPSK	135	69	23.00	23.15	22.90	24.0	0.0	
100	PI2 BPSK	135	138	22.74	22.88	22.80	24.0	0.0	
100	PI2 BPSK	270	0	22.96	23.05	22.84			
100	QPSK	1	1	22.97	23.18	22.84			
100	QPSK	1	137	22.95	23.08	22.83	24.0	0.0	
100	QPSK	1	271	22.90	22.91	22.79			
100	QPSK	135	0	22.92	23.04	22.79			
100	QPSK	135	69	22.74	22.98	22.79	24.0	0.0	
100	QPSK	135	138	22.62	22.75	22.64			
100	QPSK	270	0	22.68	22.72	22.61	24.0	0.0	
100	16QAM	1	1	22.91	23.07	22.86	24.0	0.0	
100	64QAM	1	1	21.65	21.91	21.86	22.5	1.5	
100	256QAM	1	1	19.68	19.79	19.73	20.5	3.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.93	23.10	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.98	23.10	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.02	23.05	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.92	23.05	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.99	23.12	22.89	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.95	23.07	22.80	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.88	23.06	22.89	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.90	23.12	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.99	23.04	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.80	23.05	22.85	24.0	0.0	

n41_Ant 5_HPUE									
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	24.23	24.27	24.20			
100	PI2 BPSK	1	137	24.10	24.12	24.11	26.0	0.0	
100	PI2 BPSK	1	271	24.07	24.14	24.07			
100	PI2 BPSK	135	0	23.69	23.75	23.72	25.5	0.5	
100	PI2 BPSK	135	69	24.02	24.07	24.04	26.0	0.0	
100	PI2 BPSK	135	138	23.50	23.55	23.53	25.5	0.5	
100	PI2 BPSK	270	0	23.59	23.58	23.52			
100	QPSK	1	1	23.35	24.04	24.03			
100	QPSK	1	137	24.15	24.21	24.15	26.0	0.0	
100	QPSK	1	271	24.11	24.18	24.09			
100	QPSK	135	0	23.22	23.24	23.22			
100	QPSK	135	69	23.55	24.43	24.42	26.0	0.0	
100	QPSK	135	138	22.94	22.96	22.94			
100	QPSK	270	0	23.48	23.51	23.41	25.0	1.0	
100	16QAM	1	1	23.56	23.62	23.55	25.0	1.0	
100	64QAM	1	1	22.09	22.09	22.07	23.5	2.5	
100	256QAM	1	1	19.95	19.97	19.91	21.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	24.40	24.61	24.48	26.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	24.51	24.57	24.47	26.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	24.50	24.62	24.51	26.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	24.47	24.62	24.49	26.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	24.49	24.59	24.50	26.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	24.47	24.57	24.52	26.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	24.46	24.60	24.48	26.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	24.48	24.58	24.51	26.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	24.48	24.63	24.48	26.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	24.40	24.50	24.47	26.0	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	High Ch. Freq.		
Channel				506202	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.97	21.01	20.91		
100	PI2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PI2 BPSK	1	271	20.93	21.11	20.89		
100	PI2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PI2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PI2 BPSK	135	138	20.76	21.01	20.89	22.5	0.0
100	PI2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.08		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	16QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506200	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.00	21.04	20.91	22.5	0.0
Channel				508200	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				509200	518598	531966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.09	21.11	20.90	22.5	0.0
Channel				505202	518598	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.00	20.99	20.92	22.5	0.0
Channel				506200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518598	538498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.5	2592.99	2682.48		
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				506202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611.01	2592.99	2685		
10	QPSK	1	1	21.07	21.03	20.94	22.5	0.0



n41_Ant 6_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Highest Ch. Freq.		
Channel				506002	518998	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.84	22.74	22.67		
100	PI2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0
100	PI2 BPSK	1	271	22.71	22.93	22.61		
100	PI2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5
100	PI2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0
100	PI2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5
100	PI2 BPSK	270	0	22.26	22.19	22.28		
100	QPSK	1	1	22.81	22.88	22.85		
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0
100	QPSK	1	271	22.61	22.48	22.63		
100	QPSK	135	0	21.73	21.75	21.76		
100	QPSK	135	69	22.61	22.67	22.61	24.5	0.0
100	QPSK	135	138	21.62	21.71	21.71		
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0
100	64QAM	1	1	20.48	20.64	20.48	22.0	2.5
100	256QAM	1	1	18.25	18.56	18.31	20.0	4.5
Channel				506000	518998	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	22.83	22.88	22.79	24.5	0.0
Channel				507204	518998	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2648.99		
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0
Channel				508200	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2656		
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0
Channel				509200	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0
Channel				504204	518998	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	22.89	22.94	22.83	24.5	0.0
Channel				505202	518998	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.89	22.94	22.79	24.5	0.0
Channel				506200	518998	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0
Channel				507204	518998	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0
Channel				507000	518998	538400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0
Channel				506202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0



n41_Ant 9							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	2153	2155	2155	0.0
100	PI2 BPSK	1	137	2140	2154	2140	22.5
100	PI2 BPSK	1	271	2152	2153	2141	0.0
100	PI2 BPSK	135	0	2141	2149	2140	22.5
100	PI2 BPSK	135	69	2143	2148	2143	22.5
100	PI2 BPSK	135	138	2142	2158	2137	22.5
100	PI2 BPSK	270	0	2140	2150	2137	0.0
100	QPSK	1	1	2155	2159	2152	0.0
100	QPSK	1	137	2145	2149	2145	22.5
100	QPSK	1	271	2148	2158	2137	0.0
100	QPSK	135	0	2140	2150	2139	0.0
100	QPSK	135	69	2143	2158	2143	22.5
100	QPSK	135	138	2148	2152	2140	0.0
100	QPSK	270	0	2144	2154	2143	22.5
100	16QAM	1	1	2152	2145	2149	22.5
100	16QAM	1	1	2150	2157	2151	22.5
100	16QAM	1	1	2143	2151	2150	22.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	2541	2552.99	2541.98	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	2144	2154	2148	22.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	2531.01	2552.99	2531.01	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	2148	2147	2148	22.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	2143	2145	2147	22.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	2150	2147	2139	22.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	2516.01	2552.99	2516.01	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	2145	2158	2148	22.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	2150	2153	2150	22.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	2140	2151	2137	22.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	2151	2149	2148	22.5

n41_Ant 9_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	2153	2155	2155	0.0
100	PI2 BPSK	1	137	2140	2154	2140	22.5
100	PI2 BPSK	1	271	2152	2153	2141	0.0
100	PI2 BPSK	135	0	2141	2149	2140	22.5
100	PI2 BPSK	135	69	2143	2148	2143	22.5
100	PI2 BPSK	135	138	2142	2158	2137	22.5
100	PI2 BPSK	270	0	2140	2150	2137	0.0
100	QPSK	1	1	2155	2159	2152	0.0
100	QPSK	1	137	2145	2149	2145	22.5
100	QPSK	1	271	2148	2158	2137	0.0
100	QPSK	135	0	2140	2150	2139	0.0
100	QPSK	135	69	2143	2158	2143	22.5
100	QPSK	135	138	2148	2152	2140	0.0
100	QPSK	270	0	2144	2154	2143	22.5
100	16QAM	1	1	2152	2145	2149	22.5
100	16QAM	1	1	2150	2157	2151	22.5
100	16QAM	1	1	2143	2151	2150	22.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	2541	2552.99	2541.98	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	2144	2154	2148	22.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	2531.01	2552.99	2531.01	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	2148	2147	2148	22.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	2143	2145	2147	22.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	2150	2147	2139	22.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	2516.01	2552.99	2516.01	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	2145	2158	2148	22.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	2150	2153	2150	22.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	2140	2151	2137	22.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	2151	2149	2148	22.5



n48_FCC_Part96_Ant 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3270	324.99	329.98	
40	PI2 BPSK	1	1	19.20	19.34	19.33	20.5
40	PI2 BPSK	1	53	19.21	19.25	19.31	0.0
40	PI2 BPSK	1	104	19.26	19.27	19.22	0.0
40	PI2 BPSK	50	0	19.21	19.31	19.21	20.5
40	PI2 BPSK	50	26	19.26	19.30	19.20	0.0
40	PI2 BPSK	50	56	19.26	19.31	19.20	20.5
40	PI2 BPSK	100	0	19.25	19.34	19.26	0.0
40	QPSK	1	1	19.25	19.40	19.33	20.5
40	QPSK	1	53	19.26	19.37	19.25	0.0
40	QPSK	1	104	19.23	19.33	19.25	0.0
40	QPSK	50	0	19.26	19.29	19.22	20.5
40	QPSK	50	26	19.26	19.36	19.27	0.0
40	QPSK	50	56	19.21	19.33	19.25	0.0
40	QPSK	100	0	19.31	19.35	19.33	20.5
40	16QAM	1	1	19.25	19.26	19.27	0.0
40	16QAM	1	1	19.23	19.33	19.25	0.0
40	16QAM	1	1	19.28	19.32	19.32	0.0
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3524.99	3584.98	
30	QPSK	1	1	19.22	19.28	19.21	20.5
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3524.99	3590	
20	QPSK	1	1	19.17	19.28	19.31	20.5
Channel				635000	641666	645332	
Frequency (MHz)				3855	3824.99	3894.98	
10	QPSK	1	1	19.20	19.26	19.33	20.5

n48_FCC_Part96_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3270	324.99	329.98	
40	PI2 BPSK	1	1	18.69	18.75	18.76	20.0
40	PI2 BPSK	1	53	18.69	18.65	18.63	0.0
40	PI2 BPSK	1	104	18.72	18.67	18.66	0.0
40	PI2 BPSK	50	0	18.69	18.65	18.74	20.0
40	PI2 BPSK	50	26	18.65	18.74	18.71	0.0
40	PI2 BPSK	50	56	18.66	18.67	18.64	20.0
40	PI2 BPSK	100	0	18.64	18.75	18.66	0.0
40	QPSK	1	1	18.72	18.80	18.77	20.0
40	QPSK	1	53	18.65	18.75	18.65	0.0
40	QPSK	1	104	18.64	18.65	18.76	0.0
40	QPSK	50	0	18.71	18.71	18.62	20.0
40	QPSK	50	26	18.72	18.79	18.74	0.0
40	QPSK	50	56	18.70	18.77	18.65	0.0
40	QPSK	100	0	18.64	18.65	18.65	20.0
40	16QAM	1	1	18.59	18.73	18.74	0.0
40	16QAM	1	1	18.70	18.73	18.65	0.0
40	16QAM	1	1	18.68	18.79	18.66	0.0
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3524.99	3584.98	
30	QPSK	1	1	18.70	18.70	18.74	20.0
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3524.99	3590	
20	QPSK	1	1	18.67	18.71	18.64	20.0
Channel				635000	641666	645332	
Frequency (MHz)				3855	3824.99	3894.98	
10	QPSK	1	1	18.58	18.68	18.67	20.0



n48_FCC_Part96_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3200	3623.99	3673.98	
40	PI2 BPSK	1	1	2127	2132	2099	22.5
40	PI2 BPSK	1	53	2076	2088	2094	0.0
40	PI2 BPSK	1	104	2107	2122	2114	0.0
40	PI2 BPSK	50	0	2071	2070	2070	22.5
40	PI2 BPSK	50	26	2133	2126	2125	0.0
40	PI2 BPSK	50	56	2065	2065	2066	22.5
40	PI2 BPSK	100	0	2061	2068	2067	0.0
40	QPSK	1	1	2130	2148	2140	22.5
40	QPSK	1	53	2133	2135	2120	0.0
40	QPSK	1	104	2110	2117	2107	0.0
40	QPSK	50	0	2072	2080	2078	22.5
40	QPSK	50	26	2126	2135	2126	0.0
40	QPSK	50	56	2069	2074	2066	22.5
40	QPSK	100	0	2061	2071	2064	0.0
40	16QAM	1	1	1988	2003	1999	21.5
40	16QAM	1	1	1829	1837	1827	2.5
40	16QAM	1	1	1836	1837	1812	4.5
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.98	
30	QPSK	1	1	2124	2147	2143	22.5
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	2130	2144	2145	22.5
Channel				635000	641666	645332	
Frequency (MHz)				3855	3624.99	3694.98	
10	QPSK	1	1	2130	2144	2140	22.5

n48_FCC_Part96_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3200	3624.99	3673.98	
40	PI2 BPSK	1	1	1933	1939	1939	20.5
40	PI2 BPSK	1	53	1930	1939	1930	0.0
40	PI2 BPSK	1	104	1934	1934	1929	0.0
40	PI2 BPSK	50	0	1930	1942	1932	20.5
40	PI2 BPSK	50	26	1935	1938	1938	0.0
40	PI2 BPSK	50	56	1931	1942	1936	20.5
40	PI2 BPSK	100	0	1928	1939	1930	0.0
40	QPSK	1	1	1930	1940	1940	20.5
40	QPSK	1	53	1937	1937	1926	0.0
40	QPSK	1	104	1937	1942	1932	0.0
40	QPSK	50	0	1930	1932	1930	20.5
40	QPSK	50	26	1935	1938	1937	0.0
40	QPSK	50	56	1927	1935	1930	0.0
40	QPSK	100	0	1934	1941	1926	0.0
40	16QAM	1	1	1929	1936	1937	20.5
40	16QAM	1	1	1934	1935	1926	0.0
40	16QAM	1	1	1930	1945	1931	1.0
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.98	
30	QPSK	1	1	1930	1944	1934	20.5
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	1932	1939	1927	20.5
Channel				635000	641666	645332	
Frequency (MHz)				3855	3624.99	3694.98	
10	QPSK	1	1	1923	1934	1929	20.5



Par270 n77_Ant 4

Table with columns: 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). Contains multiple rows for different modulation schemes like Pi2 BPSK, QPSK, 16QAM, and 256QAM across various frequency channels.

Par270 n77_Ant 4_HPUE

Table with columns: 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). Similar to the first table but with a highlighted yellow header and slightly different frequency values.

Par270 n77_Ant 4

Table with columns: 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). Similar to the other tables, showing channel configurations for different modulation schemes.



Par27Q n77_Ant 4_HPUE										
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	19.43	3499.98					
100	PI2 BPSK	1	137	19.54			20.5	0.0		
100	PI2 BPSK	1	271	19.42						
100	PI2 BPSK	135	0	19.54			20.5	0.0		
100	PI2 BPSK	135	69	19.45			20.5	0.0		
100	PI2 BPSK	135	138	19.44			20.5	0.0		
100	PI2 BPSK	270	0	19.53						
100	QPSK	1	1	19.55						
100	QPSK	1	137	19.50			20.5	0.0		
100	QPSK	1	271	19.52						
100	QPSK	135	0	19.49						
100	QPSK	135	69	19.52			20.5	0.0		
100	QPSK	135	138	19.45						
100	QPSK	270	0	19.40			20.5	0.0		
100	16QAM	1	1	19.48			20.5	0.0		
100	16QAM	1	1	19.47			20.5	0.0		
100	256QAM	1	1	19.46			20.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	19.44	19.45	19.46	20.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	19.54	19.41	19.52	20.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	19.50	19.41	19.52	20.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.45	19.54	19.45	20.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.43	19.43	19.43	20.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	19.47	19.47	19.43	20.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.50	19.43	19.41	20.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.48	19.54	19.50	20.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.54	19.42	19.48	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.40	19.42	19.43	20.5	0.0		

Par27Q n77_Ant 7										
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	22.92	23.09	23.01				
100	PI2 BPSK	1	137	22.99	23.07	22.93	24.0	0.0		
100	PI2 BPSK	1	271	22.92	23.03	22.61				
100	PI2 BPSK	135	0	22.82	22.98	22.88	24.0	0.0		
100	PI2 BPSK	135	69	23.05	23.07	23.00	24.0	0.0		
100	PI2 BPSK	135	138	22.78	22.89	22.81	24.0	0.0		
100	PI2 BPSK	270	0	22.72	22.98	22.85				
100	QPSK	1	1	23.02	23.16	22.95				
100	QPSK	1	137	22.92	23.09	22.83	24.0	0.0		
100	QPSK	1	271	22.91	23.02	22.83				
100	QPSK	135	0	22.90	22.97	22.80				
100	QPSK	135	69	23.05	23.13	22.84	24.0	0.0		
100	QPSK	135	138	22.84	22.89	22.67				
100	QPSK	270	0	22.86	23.02	22.70	24.0	0.0		
100	16QAM	1	1	22.82	23.08	22.82	24.0	0.0		
100	16QAM	1	1	22.97	22.49	22.31	23.5	0.5		
100	256QAM	1	1	20.41	20.49	20.36	21.5	2.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	22.85	23.11	22.77	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.96	23.01	22.79	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.94	23.04	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.00	23.11	22.93	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.90	22.96	22.76	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.89	23.00	22.84	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.87	23.07	22.93	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.87	23.08	22.92	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.85	23.01	22.76	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.83	22.87	22.83	24.0	0.0		

Par27Q n77_Ant 7_HPUE										
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	24.06	24.03	24.01				
100	PI2 BPSK	1	137	24.05	24.08	23.93	25.5	0.0		
100	PI2 BPSK	1	271	24.06	24.03	24.03				
100	PI2 BPSK	135	0	23.99	24.10	24.03	25.5	0.0		
100	PI2 BPSK	135	69	23.93	24.02	24.04	25.5	0.0		
100	PI2 BPSK	135	138	24.05	24.03	23.93	25.5	0.0		
100	PI2 BPSK	270	0	23.93	24.04	23.92				
100	QPSK	1	1	24.05	24.12	24.05				
100	QPSK	1	137	23.94	23.98	23.91	25.5	0.0		
100	QPSK	1	271	24.00	24.00	23.93				
100	QPSK	135	0	24.03	24.00	24.01				
100	QPSK	135	69	24.05	24.07	24.02	25.5	0.0		
100	QPSK	135	138	24.02	23.98	24.00				
100	QPSK	270	0	23.98	23.71	23.58	25.0	0.5		
100	16QAM	1	1	23.61	23.68	23.46	25.0	0.5		
100	16QAM	1	1	22.41	22.51	22.37	23.5	2.0		
100	256QAM	1	1	20.70	20.75	20.71	21.5	4.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	24.03	24.05	23.92	25.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	23.94	24.09	23.97	25.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	24.07	24.08	24.00	25.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.97	24.04	24.03	25.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	23.99	24.06	23.99	25.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	23.94	24.11	23.98	25.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	24.06	24.07	24.03	25.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	24.07	24.07	23.98	25.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	23.95	24.05	23.95	25.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	24.04	24.10	23.99	25.5	0.0		



Par27Q n77_Ant 7										
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	2272						
100	PI2 BPSK	1	137	2306			24.0	0.0		
100	PI2 BPSK	1	271	2304						
100	PI2 BPSK	135	0	2264			24.0	0.0		
100	PI2 BPSK	135	69	2283			24.0	0.0		
100	PI2 BPSK	135	138	2305			24.0	0.0		
100	PI2 BPSK	270	0	2291						
100	QPSK	1	1	2312						
100	QPSK	1	137	2299			24.0	0.0		
100	QPSK	1	271	2270						
100	QPSK	135	0	2270						
100	QPSK	135	69	2285			24.0	0.0		
100	QPSK	135	138	2278			24.0	0.0		
100	QPSK	270	0	2281			24.0	0.0		
100	16QAM	1	1	2282			24.0	0.0		
100	16QAM	1	1	2278			23.5	0.5		
100	256QAM	1	1	2085			21.5	2.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3495	63332	63366	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	2306	2307	2310	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	2311	2311	2310	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	2307	2311	2306	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	2308	2310	2308	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	2311	2310	2307	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	2307	2306	2308	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	2309	2310	2311	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	2311	2311	2307	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	2306	2307	2307	24.0	0.0		

Par27Q n77_Ant 7_HPUE										
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	2309						
100	PI2 BPSK	1	137	2305			25.5	0.0		
100	PI2 BPSK	1	271	2308						
100	PI2 BPSK	135	0	2306			25.5	0.0		
100	PI2 BPSK	135	69	2308			25.5	0.0		
100	PI2 BPSK	135	138	2307			25.5	0.0		
100	PI2 BPSK	270	0	2309						
100	QPSK	1	1	2402						
100	QPSK	1	137	2306			25.5	0.0		
100	QPSK	1	271	2305						
100	QPSK	135	0	2309						
100	QPSK	135	69	2401			25.5	0.0		
100	QPSK	135	138	2309			25.5	0.0		
100	QPSK	270	0	2400			25.0	0.5		
100	16QAM	1	1	2308			25.0	0.5		
100	16QAM	1	1	2278			23.5	2.0		
100	256QAM	1	1	2085			21.5	4.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3495	63332	63366	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	2309	2309	2304	25.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	2305	2306	2304	25.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	2308	2305	2306	25.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	2308	2305	2305	25.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	2305	2306	2305	25.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	2306	2307	2307	25.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	2308	2308	2309	25.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	2305	2307	2308	25.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	2301	2307	2303	25.5	0.0		

Par27Q n77_Ant 8										
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	1948	3340	3350				
100	PI2 BPSK	1	137	1952	1945	1939	21.0	0.0		
100	PI2 BPSK	1	271	1946	1954	1932				
100	PI2 BPSK	135	0	1948	1947	1942	21.0	0.0		
100	PI2 BPSK	135	69	1949	1953	1932	21.0	0.0		
100	PI2 BPSK	135	138	1944	1955	1946	21.0	0.0		
100	PI2 BPSK	270	0	1943	1944	1939				
100	QPSK	1	1	1925	1928	1927				
100	QPSK	1	137	1945	1920	1942	21.0	0.0		
100	QPSK	1	271	1942	1956	1938				
100	QPSK	135	0	1940	1952	1943				
100	QPSK	135	69	1945	1927	1942	21.0	0.0		
100	QPSK	135	138	1947	1944	1940				
100	QPSK	270	0	1948	1929	1935	21.0	0.0		
100	16QAM	1	1	1943	1951	1943	21.0	0.0		
100	16QAM	1	1	1899	1902	1900	20.5	0.5		
100	256QAM	1	1	1822	1850	1850	18.5	2.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3495	63332	63366	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	1950	1956	1932	21.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	1940	1950	1944	21.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	1952	1951	1934	21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	1941	1957	1945	21.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	1944	1943	1932	21.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	1944	1943	1932	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	1948	1945	1938	21.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	1940	1943	1937	21.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	1943	1947	1933	21.0	0.0		



Par270 n77_Ant 8_HPUE									
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	21.41	21.44	21.43			
100	PI2 BPSK	1	137	21.18	21.29	21.28	23.0	0.0	
100	PI2 BPSK	1	271	21.38	21.42	21.31			
100	PI2 BPSK	135	0	20.57	20.72	20.70	22.5	0.5	
100	PI2 BPSK	135	69	21.33	21.34	21.21	22.0	0.0	
100	PI2 BPSK	135	138	20.79	20.83	20.70	22.5	0.5	
100	PI2 BPSK	270	0	20.56	20.72	20.71			
100	QPSK	1	1	21.41	21.54	21.52			
100	QPSK	1	137	21.36	21.43	21.31	23.0	0.0	
100	QPSK	1	271	21.14	21.23	21.11			
100	QPSK	135	0	20.35	20.39	20.37			
100	QPSK	135	69	21.35	21.48	21.42	23.0	0.0	
100	QPSK	135	138	20.44	20.45	20.36			
100	QPSK	270	0	20.28	20.43	20.39	22.0	1.0	
100	16QAM	1	1	20.37	20.49	20.37	22.0	1.0	
100	64QAM	1	1	18.96	18.92	18.91	20.5	2.5	
100	256QAM	1	1	18.88	18.80	18.75	18.5	4.5	
Channel									
Frequency (MHz)									
68968	65600	66332	Tune-up limit	MPR					
3745.02	3840	3934.98	(dBm)	(dB)					
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.11	21.35	21.41	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.09	21.34	21.38	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.16	21.29	21.39	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.08	21.38	21.40	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.12	21.30	21.33	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.09	21.29	21.30	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.12	21.30	21.33	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.08	21.32	21.34	23.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.14	21.33	21.34	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.11	21.34	21.34	23.0	0.0	

Par270 n77_Ant 8									
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	18.84					
100	PI2 BPSK	1	137	18.87			20.5	0.0	
100	PI2 BPSK	1	271	18.93					
100	PI2 BPSK	135	0	18.90			20.5	0.0	
100	PI2 BPSK	135	69	18.83			20.5	0.0	
100	PI2 BPSK	135	138	18.90			20.5	0.0	
100	PI2 BPSK	270	0	18.85					
100	QPSK	1	1	18.85					
100	QPSK	1	137	18.83			20.5	0.0	
100	QPSK	1	271	18.83					
100	QPSK	135	0	18.87					
100	QPSK	135	69	18.81			20.5	0.0	
100	QPSK	135	138	18.89					
100	QPSK	270	0	18.80			20.5	0.0	
100	16QAM	1	1	18.94			20.5	0.0	
100	64QAM	1	1	18.45			20.0	0.5	
100	256QAM	1	1	18.38			18.0	2.5	
Channel									
Frequency (MHz)									
63300	63332	63366	Tune-up limit	MPR					
3495	3499.98	3504.99	(dBm)	(dB)					
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.85	18.83	18.82	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.85	18.89	18.81	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.86	18.89	18.77	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.86	18.87	18.78	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.85	18.83	18.82	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.84	18.83	18.83	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.83	18.88	18.87	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.88	18.89	18.79	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.86	18.81	18.88	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.85	18.85	18.83	20.5	0.0	

Par270 n77_Ant 8_HPUE									
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	20.58					
100	PI2 BPSK	1	137	20.95			22.5	0.0	
100	PI2 BPSK	1	271	20.93					
100	PI2 BPSK	135	0	20.35			22.0	0.5	
100	PI2 BPSK	135	69	20.88			22.5	0.0	
100	PI2 BPSK	135	138	20.40			22.0	0.5	
100	PI2 BPSK	270	0	20.32					
100	QPSK	1	1	20.99					
100	QPSK	1	137	20.92			22.5	0.0	
100	QPSK	1	271	20.96					
100	QPSK	135	0	19.78					
100	QPSK	135	69	20.82			22.5	0.0	
100	QPSK	135	138	19.80					
100	QPSK	270	0	19.70			21.5	1.0	
100	16QAM	1	1	19.99			21.5	1.0	
100	64QAM	1	1	18.45			20.0	2.5	
100	256QAM	1	1	18.38			18.0	4.5	
Channel									
Frequency (MHz)									
63300	63332	63366	Tune-up limit	MPR					
3495	3499.98	3504.99	(dBm)	(dB)					
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.91	20.88	20.98	22.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.93	20.88	20.97	22.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.96	20.93	20.89	22.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.92	20.97	20.96	22.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.92	20.97	20.96	22.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.93	20.92	20.93	22.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.89	20.92	20.87	22.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.96	20.94	20.90	22.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.91	20.87	20.89	22.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.94	20.93	20.97	22.5	0.0	



Par270 n77_Ant 10										
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	17.01	17.05	17.03				
100	PI2 BPSK	1	137	17.00	17.13	17.05	18.5	0.0		
100	PI2 BPSK	1	271	16.96	17.00	17.01				
100	PI2 BPSK	135	0	17.05	17.05	17.05	18.5	0.0		
100	PI2 BPSK	135	69	17.05	17.05	17.10	18.5	0.0		
100	PI2 BPSK	135	138	16.93	17.11	17.04				
100	PI2 BPSK	270	0	17.06	17.06	17.08	18.5	0.0		
100	QPSK	1	1	17.05	17.15	17.12				
100	QPSK	1	137	17.01	17.13	17.06	18.5	0.0		
100	QPSK	1	271	17.05	17.08	17.00				
100	QPSK	135	0	17.03	17.10	17.01				
100	QPSK	135	69	17.05	17.14	17.05	18.5	0.0		
100	QPSK	135	138	16.96	17.00	16.98				
100	QPSK	270	0	17.01	17.12	16.98	18.5	0.0		
100	16QAM	1	1	16.96	17.03	17.03	18.5	0.0		
100	16QAM	1	1	16.96	17.06	17.03	18.5	0.0		
100	256QAM	1	1	17.00	17.11	17.09	18.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	17.04	17.02	17.04	18.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.97	17.04	16.97	18.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	16.97	17.14	17.04	18.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	17.00	17.00	17.04	18.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	17.04	17.04	17.04	18.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.95	17.07	17.01	18.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.96	17.01	17.05	18.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.95	17.00	17.04	18.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.98	17.10	17.09	18.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	17.00	17.00	17.04	18.5	0.0		

Par270 n77_Ant_10_HPUE										
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	17.01	17.05	17.03				
100	PI2 BPSK	1	137	17.00	17.13	17.05	18.5	0.0		
100	PI2 BPSK	1	271	16.96	17.00	17.01				
100	PI2 BPSK	135	0	17.05	17.05	17.05	18.5	0.0		
100	PI2 BPSK	135	69	17.05	17.05	17.10	18.5	0.0		
100	PI2 BPSK	135	138	16.93	17.11	17.04				
100	PI2 BPSK	270	0	17.06	17.06	17.08	18.5	0.0		
100	QPSK	1	1	17.05	17.15	17.12				
100	QPSK	1	137	17.01	17.13	17.06	18.5	0.0		
100	QPSK	1	271	17.05	17.08	17.00				
100	QPSK	135	0	17.03	17.10	17.01				
100	QPSK	135	69	17.05	17.14	17.05	18.5	0.0		
100	QPSK	135	138	16.96	17.00	16.98				
100	QPSK	270	0	17.01	17.12	16.98	18.5	0.0		
100	16QAM	1	1	16.96	17.03	17.03	18.5	0.0		
100	16QAM	1	1	16.96	17.06	17.03	18.5	0.0		
100	256QAM	1	1	17.00	17.11	17.09	18.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	17.04	17.02	17.04	18.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.97	17.04	16.97	18.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	16.97	17.14	17.04	18.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	17.00	17.00	17.04	18.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	17.04	17.04	17.04	18.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.95	17.07	17.01	18.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.96	17.01	17.05	18.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.95	17.00	17.04	18.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.98	17.10	17.09	18.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	17.00	17.00	17.04	18.5	0.0		

Par27Q n77_Ant 10										
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			3499.98				
100	PI2 BPSK	1	1			17.14				
100	PI2 BPSK	1	137			17.12	18.5	0.0		
100	PI2 BPSK	1	271			17.07				
100	PI2 BPSK	135	0			17.19	18.5	0.0		
100	PI2 BPSK	135	69			17.20	18.5	0.0		
100	PI2 BPSK	135	138			17.13				
100	PI2 BPSK	270	0			17.11	18.5	0.0		
100	QPSK	1	1			17.22				
100	QPSK	1	137			17.16	18.5	0.0		
100	QPSK	1	271			17.12				
100	QPSK	135	0			17.14				
100	QPSK	135	69			17.17	18.5	0.0		
100	QPSK	135	138			17.12				
100	QPSK	270	0			17.11	18.5	0.0		
100	16QAM	1	1			17.20	18.5	0.0		
100	16QAM	1	1			17.17	18.5	0.0		
100	256QAM	1	1			17.09	18.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1			3495	3499.98	3504.99	18.5	0.0
Channel										
Frequency (MHz)										
80	QPSK	1	1			17.15	17.17	17.12	18.5	0.0
Channel										
Frequency (MHz)										
70	QPSK	1	1			17.09	17.12	17.09	18.5	0.0
Channel										
Frequency (MHz)										
60	QPSK	1	1			17.18	17.10	17.07	18.5	0.0
Channel										
Frequency (MHz)										
50	QPSK	1	1			17.13	17.19	17.15	18.5	0.0
Channel										
Frequency (MHz)										
40	QPSK	1	1			17.07	17.12	17.10	18.5	0.0
Channel										
Frequency (MHz)										
30	QPSK	1	1			17.13	17.21	17.07	18.5	0.0
Channel										
Frequency (MHz)										
20	QPSK	1	1			17.14	17.20	17.17	18.5	0.0
Channel										
Frequency (MHz)										
15	QPSK	1	1			17.20	17.19	17.17	18.5	0.0
Channel										
Frequency (MHz)										
10	QPSK	1	1			17.03	17.14	17.14	18.5	0.0



Par27Q n77_Ant 10_HPUE										
EW (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	17.14	17.12	17.12	18.5	0.0		
100	PI2 BPSK	1	137	17.12	17.12	17.12	18.5	0.0		
100	PI2 BPSK	1	271	17.07	17.07	17.07	18.5	0.0		
100	PI2 BPSK	135	0	17.19	17.19	17.19	18.5	0.0		
100	PI2 BPSK	135	69	17.20	17.20	17.20	18.5	0.0		
100	PI2 BPSK	135	138	17.13	17.13	17.13	18.5	0.0		
100	PI2 BPSK	270	0	17.11	17.11	17.11	18.5	0.0		
100	QPSK	1	1	17.22	17.22	17.22	18.5	0.0		
100	QPSK	1	137	17.16	17.16	17.16	18.5	0.0		
100	QPSK	1	271	17.12	17.12	17.12	18.5	0.0		
100	QPSK	135	0	17.14	17.14	17.14	18.5	0.0		
100	QPSK	135	69	17.17	17.17	17.17	18.5	0.0		
100	QPSK	135	138	17.12	17.12	17.12	18.5	0.0		
100	QPSK	270	0	17.11	17.11	17.11	18.5	0.0		
100	16QAM	1	1	17.20	17.20	17.20	18.5	0.0		
100	16QAM	1	1	17.17	17.17	17.17	18.5	0.0		
100	256QAM	1	1	17.09	17.09	17.09	18.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3495	3499.98	3504.99	18.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3495.02	3499.98	3504.99	18.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	17.09	17.12	17.09	18.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	17.18	17.10	17.07	18.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	17.15	17.19	17.13	18.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	17.07	17.12	17.10	18.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	17.13	17.21	17.07	18.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	17.14	17.20	17.17	18.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	17.20	17.19	17.17	18.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	17.60	17.14	17.14	18.5	0.0		

Par27Q n78_Ant 4										
EW (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	19.37	19.40	19.40	20.5	0.0		
100	PI2 BPSK	1	137	19.40	19.40	19.40	20.5	0.0		
100	PI2 BPSK	1	271	19.39	19.39	19.39	20.5	0.0		
100	PI2 BPSK	135	0	19.35	19.35	19.35	20.5	0.0		
100	PI2 BPSK	135	69	19.47	19.47	19.47	20.5	0.0		
100	PI2 BPSK	135	138	19.48	19.48	19.48	20.5	0.0		
100	PI2 BPSK	270	0	19.43	19.43	19.43	20.5	0.0		
100	QPSK	1	1	19.49	19.49	19.49	20.5	0.0		
100	QPSK	1	137	19.46	19.46	19.46	20.5	0.0		
100	QPSK	1	271	19.42	19.42	19.42	20.5	0.0		
100	QPSK	135	0	19.41	19.41	19.41	20.5	0.0		
100	QPSK	135	69	19.43	19.43	19.43	20.5	0.0		
100	QPSK	135	138	19.37	19.37	19.37	20.5	0.0		
100	QPSK	270	0	19.34	19.34	19.34	20.5	0.0		
100	16QAM	1	1	19.36	19.36	19.36	20.5	0.0		
100	16QAM	1	1	19.46	19.46	19.46	20.5	0.0		
100	256QAM	1	1	19.36	19.36	19.36	20.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3745.02	3750	3754.98	20.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	19.42	19.40	19.40	20.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	19.36	19.34	19.44	20.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.38	19.39	19.44	20.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.35	19.45	19.44	20.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	19.47	19.45	19.44	20.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.38	19.48	19.45	20.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.40	19.47	19.36	20.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.42	19.43	19.43	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.43	19.47	19.43	20.5	0.0		

Par27Q n78_Ant 4_HPUE										
EW (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	19.37	19.40	19.40	20.5	0.0		
100	PI2 BPSK	1	137	19.40	19.40	19.40	20.5	0.0		
100	PI2 BPSK	1	271	19.39	19.39	19.39	20.5	0.0		
100	PI2 BPSK	135	0	19.35	19.35	19.35	20.5	0.0		
100	PI2 BPSK	135	69	19.47	19.47	19.47	20.5	0.0		
100	PI2 BPSK	135	138	19.48	19.48	19.48	20.5	0.0		
100	PI2 BPSK	270	0	19.43	19.43	19.43	20.5	0.0		
100	QPSK	1	1	19.49	19.49	19.49	20.5	0.0		
100	QPSK	1	137	19.46	19.46	19.46	20.5	0.0		
100	QPSK	1	271	19.42	19.42	19.42	20.5	0.0		
100	QPSK	135	0	19.41	19.41	19.41	20.5	0.0		
100	QPSK	135	69	19.43	19.43	19.43	20.5	0.0		
100	QPSK	135	138	19.37	19.37	19.37	20.5	0.0		
100	QPSK	270	0	19.34	19.34	19.34	20.5	0.0		
100	16QAM	1	1	19.36	19.36	19.36	20.5	0.0		
100	16QAM	1	1	19.46	19.46	19.46	20.5	0.0		
100	256QAM	1	1	19.36	19.36	19.36	20.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3745.02	3750	3754.98	20.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	19.42	19.40	19.40	20.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	19.36	19.34	19.44	20.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.38	19.39	19.44	20.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	19.35	19.45	19.44	20.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	19.47	19.45	19.44	20.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.38	19.48	19.45	20.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.40	19.47	19.36	20.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.42	19.43	19.43	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.43	19.47	19.43	20.5	0.0		



Part27Q 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)									
100	PI2 BPSK	1	1	19.42	19.42	19.42			
100	PI2 BPSK	1	137	19.31	19.31	19.31	20.5	0.0	
100	PI2 BPSK	1	271	19.44	19.44	19.44			
100	PI2 BPSK	135	0	19.38	19.38	19.38	20.5	0.0	
100	PI2 BPSK	135	69	19.43	19.43	19.43	20.5	0.0	
100	PI2 BPSK	135	138	19.43	19.43	19.43	20.5	0.0	
100	PI2 BPSK	270	0	19.45	19.45	19.45			
100	QPSK	1	1	19.45	19.45	19.45			
100	QPSK	1	271	19.36	19.36	19.36	20.5	0.0	
100	QPSK	135	0	19.34	19.34	19.34			
100	QPSK	135	69	19.38	19.38	19.38	20.5	0.0	
100	QPSK	135	138	19.31	19.31	19.31			
100	QPSK	270	0	19.37	19.37	19.37	20.5	0.0	
100	16QAM	1	1	19.34	19.34	19.34	20.5	0.0	
100	16QAM	1	1	19.41	19.41	19.41	20.5	0.0	
100	256QAM	1	1	19.40	19.40	19.40	20.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.34	19.42	19.33	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.34	19.39	19.35	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.43	19.38	19.38	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.45	19.32	19.31	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.31	19.30	19.42	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.41	19.41	19.43	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.41	19.32	19.39	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.35	19.36	19.43	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.35	19.45	19.36	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.32	19.43	19.42	20.5	0.0	

Part27Q n78_Ant 4_HPUE									
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	19.42	19.42	19.42			
100	PI2 BPSK	1	137	19.31	19.31	19.31	20.5	0.0	
100	PI2 BPSK	1	271	19.44	19.44	19.44			
100	PI2 BPSK	135	0	19.38	19.38	19.38	20.5	0.0	
100	PI2 BPSK	135	69	19.43	19.43	19.43	20.5	0.0	
100	PI2 BPSK	135	138	19.43	19.43	19.43	20.5	0.0	
100	PI2 BPSK	270	0	19.45	19.45	19.45			
100	QPSK	1	1	19.45	19.45	19.45			
100	QPSK	1	271	19.36	19.36	19.36	20.5	0.0	
100	QPSK	135	0	19.34	19.34	19.34			
100	QPSK	135	69	19.38	19.38	19.38	20.5	0.0	
100	QPSK	135	138	19.31	19.31	19.31			
100	QPSK	270	0	19.37	19.37	19.37	20.5	0.0	
100	16QAM	1	1	19.34	19.34	19.34	20.5	0.0	
100	16QAM	1	1	19.41	19.41	19.41	20.5	0.0	
100	256QAM	1	1	19.40	19.40	19.40	20.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.34	19.42	19.33	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.34	19.39	19.35	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.43	19.38	19.38	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.45	19.32	19.31	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.31	19.30	19.42	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.41	19.41	19.43	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.41	19.32	19.39	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.35	19.36	19.43	20.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	19.35	19.45	19.36	20.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	19.32	19.43	19.42	20.5	0.0	



Par270 n78_Ant 7								
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	23.00	23.00	23.00		
100	PI2 BPSK	1	137	22.92	22.92	22.92	24.0	0.0
100	PI2 BPSK	1	271	22.91	22.91	22.91		
100	PI2 BPSK	135	0	22.63	22.63	22.63	24.0	0.0
100	PI2 BPSK	135	69	22.98	22.98	22.98	24.0	0.0
100	PI2 BPSK	135	138	22.87	22.87	22.87	24.0	0.0
100	PI2 BPSK	270	0	22.91	22.91	22.91		
100	QPSK	1	1	23.05	23.05	23.05	24.0	0.0
100	QPSK	1	137	23.04	23.04	23.04		
100	QPSK	1	271	23.03	23.03	23.03		
100	QPSK	135	0	23.02	23.02	23.02		
100	QPSK	135	69	23.04	23.04	23.04	24.0	0.0
100	QPSK	135	138	22.98	22.98	22.98		
100	QPSK	270	0	22.95	22.95	22.95	24.0	0.0
100	16QAM	1	1	22.31	22.31	22.31	24.0	0.0
100	64QAM	1	1	22.99	22.99	22.99	23.5	0.5
100	256QAM	1	1	23.58	23.58	23.58	23.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.45	22.45	22.45	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.82	22.80	22.84	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.93	22.80	22.93	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.90	22.88	22.94	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.95	22.91	22.94	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.95	22.93	22.93	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.95	22.81	22.92	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.95	22.84	22.85	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.86	22.86	22.86	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.86	22.83	22.83	24.0	0.0

Par270 n78_Ant 7_HPUE								
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	24.02	24.02	24.02		
100	PI2 BPSK	1	137	23.99	23.99	23.99	25.5	0.0
100	PI2 BPSK	1	271	24.07	24.07	24.07		
100	PI2 BPSK	135	0	24.04	24.04	24.04	25.5	0.0
100	PI2 BPSK	135	69	24.02	24.02	24.02	25.5	0.0
100	PI2 BPSK	135	138	24.05	24.05	24.05	25.5	0.0
100	PI2 BPSK	270	0	24.04	24.04	24.04		
100	QPSK	1	1	24.10	24.10	24.10	25.5	0.0
100	QPSK	1	137	24.03	24.03	24.03		
100	QPSK	1	271	24.08	24.08	24.08		
100	QPSK	135	0	24.08	24.08	24.08	25.5	0.0
100	QPSK	135	69	24.08	24.08	24.08		
100	QPSK	135	138	24.05	24.05	24.05	25.5	0.0
100	QPSK	270	0	23.53	23.53	23.53	25.0	0.5
100	16QAM	1	1	24.08	24.08	24.08	25.0	0.5
100	64QAM	1	1	22.61	22.61	22.61	23.5	2.0
100	256QAM	1	1	20.89	20.89	20.89	21.5	4.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	24.03	24.09	24.03	25.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	24.01	24.04	24.01	25.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	24.00	24.07	24.02	25.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	24.07	24.08	24.02	25.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	24.00	24.08	24.04	25.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	24.00	24.07	24.07	25.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	24.08	24.07	23.96	25.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	24.09	23.99	23.97	25.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	24.00	24.06	24.05	25.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	24.05	23.99	23.99	25.5	0.0



Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.16	23.12	23.12	24.0
100	PI2 BPSK	1	137	23.12	23.12	23.12	24.0
100	PI2 BPSK	1	271	23.10	23.17	23.17	24.0
100	PI2 BPSK	135	0	23.13	23.13	23.13	24.0
100	PI2 BPSK	135	138	23.16	23.16	23.16	24.0
100	PI2 BPSK	270	0	23.15	23.15	23.15	24.0
100	QPSK	1	1	23.15	23.15	23.15	24.0
100	QPSK	1	137	23.12	23.12	23.12	24.0
100	QPSK	1	271	23.16	23.16	23.16	24.0
100	QPSK	135	0	23.09	23.09	23.09	24.0
100	QPSK	135	138	23.12	23.12	23.12	24.0
100	QPSK	270	0	23.14	23.14	23.14	24.0
100	16QAM	1	1	23.12	23.12	23.12	24.0
100	64QAM	1	1	23.06	23.06	23.06	23.5
100	256QAM	1	1	21.11	21.11	21.11	23.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.13	23.13	23.13	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.12	23.08	23.09	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.15	23.13	23.12	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.14	23.12	23.09	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.11	23.09	23.05	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.10	23.09	23.04	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.13	23.09	23.14	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.14	23.05	23.05	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.12	23.12	23.13	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.10	23.07	23.05	24.0

Part27Q n78_Ant 7_HPUe							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.05	23.05	23.05	25.5
100	PI2 BPSK	1	137	23.05	23.05	23.05	25.5
100	PI2 BPSK	1	271	23.05	23.05	23.05	25.5
100	PI2 BPSK	135	0	23.09	23.09	23.09	25.5
100	PI2 BPSK	135	138	23.08	23.08	23.08	25.5
100	PI2 BPSK	270	0	23.08	23.08	23.08	25.5
100	QPSK	1	1	24.00	24.00	24.00	25.5
100	QPSK	1	137	23.05	23.05	23.05	25.5
100	QPSK	1	271	23.08	23.08	23.08	25.5
100	QPSK	135	0	23.07	23.07	23.07	25.5
100	QPSK	135	138	23.04	23.04	23.04	25.5
100	QPSK	270	0	23.01	23.01	23.01	25.0
100	16QAM	1	1	23.03	23.03	23.03	25.0
100	64QAM	1	1	23.27	23.27	23.27	23.5
100	256QAM	1	1	21.14	21.14	21.14	23.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.09	23.08	23.07	25.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.05	23.08	23.03	25.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.01	23.08	23.05	25.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.07	23.05	23.00	25.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.03	23.00	22.98	25.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.09	23.07	23.04	25.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.09	23.08	23.03	25.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.08	23.05	23.06	25.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	23.05	23.02	23.05	25.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	23.05	23.02	23.03	25.5



Par270 n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	19.57	3750		
100	PI2 BPSK	1	137	19.57		21.0	0.0
100	PI2 BPSK	1	271	19.54			
100	PI2 BPSK	135	0	19.56		21.0	0.0
100	PI2 BPSK	135	69	19.55		21.0	0.0
100	PI2 BPSK	135	138	19.54		21.0	0.0
100	PI2 BPSK	270	0	19.54			
100	QPSK	1	1	19.60		21.0	0.0
100	QPSK	1	137	19.57			
100	QPSK	1	271	19.54			
100	QPSK	135	0	19.60		21.0	0.0
100	QPSK	135	69	19.63			
100	QPSK	135	138	19.61			
100	QPSK	270	0	19.55		21.0	0.0
100	16QAM	1	1	19.62		21.0	0.0
100	64QAM	1	1	18.74		20.5	0.5
100	256QAM	1	1	18.76		18.5	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	19.62	19.60	19.48	21.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	19.51	19.56	19.52	21.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	19.58	19.63	19.58	21.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	19.56	19.61	19.47	21.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	19.57	19.60	19.51	21.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.49	19.50	19.49	21.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.55	19.56	19.51	21.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.58	19.55	19.47	21.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.65	19.57	19.47	21.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.62	19.57	19.55	21.0

Par270 n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	21.58	3750		
100	PI2 BPSK	1	137	21.44		23.0	0.0
100	PI2 BPSK	1	271	21.53			
100	PI2 BPSK	135	0	20.70		22.5	0.5
100	PI2 BPSK	135	69	21.23		23.0	0.0
100	PI2 BPSK	135	138	20.82		22.5	0.5
100	PI2 BPSK	270	0	20.78			
100	QPSK	1	1	21.60		23.0	0.0
100	QPSK	1	137	21.52			
100	QPSK	1	271	21.54			
100	QPSK	135	0	20.17		23.0	0.0
100	QPSK	135	69	21.29			
100	QPSK	135	138	20.20			
100	QPSK	270	0	20.23		22.0	1.0
100	16QAM	1	1	20.28		22.0	1.0
100	64QAM	1	1	18.74		20.5	2.5
100	256QAM	1	1	18.76		18.5	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	21.55	21.50	21.48	23.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	21.54	21.49	21.52	23.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	21.51	21.49	21.47	23.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	21.59	21.51	21.49	23.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	21.52	21.46	21.47	23.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	21.51	21.51	21.47	23.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.55	21.48	21.46	23.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.58	21.48	21.46	23.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	21.55	21.49	21.48	23.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	21.55	21.50	21.45	23.0



Part27Q n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.53	18.53	18.53	0.0
100	PI2 BPSK	1	137	18.87	18.87	18.87	20.0
100	PI2 BPSK	1	271	18.84	18.84	18.84	0.0
100	PI2 BPSK	135	0	18.82	18.82	18.82	20.0
100	PI2 BPSK	135	69	18.89	18.89	18.89	20.0
100	PI2 BPSK	135	138	18.81	18.81	18.81	20.0
100	PI2 BPSK	270	0	18.81	18.81	18.81	0.0
100	QPSK	1	1	18.85	18.85	18.85	0.0
100	QPSK	1	137	18.87	18.87	18.87	20.0
100	QPSK	1	271	18.89	18.89	18.89	0.0
100	QPSK	135	0	18.84	18.84	18.84	0.0
100	QPSK	135	69	18.85	18.85	18.85	20.0
100	QPSK	135	138	18.80	18.80	18.80	0.0
100	QPSK	270	0	18.81	18.81	18.81	20.0
100	16QAM	1	1	18.90	18.90	18.90	2.0
100	16QAM	1	1	18.29	18.29	18.29	0.5
100	256QAM	1	1	18.31	18.31	18.31	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.87	18.87	18.87	20.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.87	18.85	18.85	20.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.81	18.80	18.78	20.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.88	18.79	18.81	20.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.87	18.85	18.80	20.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.90	18.83	18.87	20.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.90	18.91	18.83	20.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.83	18.80	18.81	20.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.90	18.83	18.82	20.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.90	18.70	18.83	20.0

Part27Q n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	20.87	20.87	20.87	0.0
100	PI2 BPSK	1	137	20.86	20.86	20.86	22.0
100	PI2 BPSK	1	271	20.50	20.50	20.50	0.0
100	PI2 BPSK	135	0	20.23	20.23	20.23	21.5
100	PI2 BPSK	135	69	20.40	20.40	20.40	22.0
100	PI2 BPSK	135	138	20.31	20.31	20.31	21.5
100	PI2 BPSK	270	0	20.28	20.28	20.28	0.0
100	QPSK	1	1	20.91	20.91	20.91	0.0
100	QPSK	1	137	20.79	20.79	20.79	22.0
100	QPSK	1	271	20.53	20.53	20.53	0.0
100	QPSK	135	0	18.74	18.74	18.74	0.0
100	QPSK	135	69	20.67	20.67	20.67	22.0
100	QPSK	135	138	18.80	18.80	18.80	0.0
100	QPSK	270	0	18.80	18.80	18.80	21.0
100	16QAM	1	1	19.90	19.90	19.90	21.0
100	16QAM	1	1	18.29	18.29	18.29	2.5
100	256QAM	1	1	18.31	18.31	18.31	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.87	20.86	20.83	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.80	20.84	20.80	22.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.86	20.81	20.83	22.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.87	20.84	20.88	22.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.83	20.84	20.88	22.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.82	20.77	20.86	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.83	20.79	20.85	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.87	20.83	20.84	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.85	20.86	20.87	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.70	20.70	20.84	22.0



Par270 n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	17.00	3750		
100	PI2 BPSK	1	137	16.98	3750	18.5	0.0
100	PI2 BPSK	1	271	17.10	3750		
100	PI2 BPSK	135	0	16.98	3750	18.5	0.0
100	PI2 BPSK	135	69	16.99	3750	18.5	0.0
100	PI2 BPSK	135	138	16.98	3750	18.5	0.0
100	PI2 BPSK	270	0	16.97	3750	18.5	0.0
100	QPSK	1	1	17.02	3750		
100	QPSK	1	137	16.97	3750	18.5	0.0
100	QPSK	1	271	17.02	3750		
100	QPSK	135	0	17.00	3750		
100	QPSK	135	69	17.00	3750	18.5	0.0
100	QPSK	135	138	16.99	3750	18.5	0.0
100	QPSK	270	0	16.98	3750	18.5	0.0
100	16QAM	1	1	17.02	3750	18.5	0.0
100	64QAM	1	1	17.01	3750	18.5	0.0
100	256QAM	1	1	17.07	3750	18.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.00	3750	18.5	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	16.99	3750	18.5	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.03	3750	18.5	0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.09	3750	18.5	0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	16.97	3750	18.5	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.98	3750	18.5	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.11	3750	18.5	0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.00	3750	18.5	0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.01	3750	18.5	0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.00	3750	18.5	0.0

Par270 n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	17.00	3750		
100	PI2 BPSK	1	137	16.98	3750	18.5	0.0
100	PI2 BPSK	1	271	17.10	3750		
100	PI2 BPSK	135	0	16.98	3750	18.5	0.0
100	PI2 BPSK	135	69	16.99	3750	18.5	0.0
100	PI2 BPSK	135	138	16.98	3750	18.5	0.0
100	PI2 BPSK	270	0	16.97	3750	18.5	0.0
100	QPSK	1	1	17.02	3750		
100	QPSK	1	137	16.97	3750	18.5	0.0
100	QPSK	1	271	17.02	3750		
100	QPSK	135	0	17.00	3750		
100	QPSK	135	69	17.00	3750	18.5	0.0
100	QPSK	135	138	16.99	3750	18.5	0.0
100	QPSK	270	0	16.98	3750	18.5	0.0
100	16QAM	1	1	17.02	3750	18.5	0.0
100	64QAM	1	1	17.01	3750	18.5	0.0
100	256QAM	1	1	17.07	3750	18.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.00	3750	18.5	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	16.99	3750	18.5	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.03	3750	18.5	0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.09	3750	18.5	0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	16.97	3750	18.5	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.98	3750	18.5	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.11	3750	18.5	0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.00	3750	18.5	0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	17.01	3750	18.5	0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	17.00	3750	18.5	0.0



Part27Q n78_Ant 10									
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	17.09	17.11	17.13	18.5	0.0	
100	PI2 BPSK	1	137	17.09	17.11	17.13	18.5	0.0	
100	PI2 BPSK	1	271	17.09	17.11	17.13	18.5	0.0	
100	PI2 BPSK	135	0	17.09	17.11	17.13	18.5	0.0	
100	PI2 BPSK	135	69	17.09	17.11	17.13	18.5	0.0	
100	PI2 BPSK	135	138	17.09	17.11	17.13	18.5	0.0	
100	PI2 BPSK	270	0	17.09	17.11	17.13	18.5	0.0	
100	QPSK	1	1	17.09	17.11	17.13	18.5	0.0	
100	QPSK	1	137	17.09	17.11	17.13	18.5	0.0	
100	QPSK	1	271	17.09	17.11	17.13	18.5	0.0	
100	QPSK	135	0	17.09	17.11	17.13	18.5	0.0	
100	QPSK	135	69	17.09	17.11	17.13	18.5	0.0	
100	QPSK	135	138	17.09	17.11	17.13	18.5	0.0	
100	QPSK	270	0	17.09	17.11	17.13	18.5	0.0	
100	16QAM	1	1	17.09	17.11	17.13	18.5	0.0	
100	16QAM	1	137	17.09	17.11	17.13	18.5	0.0	
100	16QAM	1	271	17.09	17.11	17.13	18.5	0.0	
100	16QAM	135	0	17.09	17.11	17.13	18.5	0.0	
100	256QAM	1	1	17.13	17.13	17.13	18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.44	17.47	17.51	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.04	17.17	17.10	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.09	17.09	17.09	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.12	17.15	17.16	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.11	17.17	17.16	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.16	17.24	17.10	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.05	17.16	17.04	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.15	17.10	17.11	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.06	17.06	17.15	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.12	17.10	17.10	18.5	0.0	

Part27Q n78_Ant 10_HPUE									
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	17.09	17.11	17.13	18.5	0.0	
100	PI2 BPSK	1	137	17.09	17.11	17.13	18.5	0.0	
100	PI2 BPSK	1	271	17.09	17.11	17.13	18.5	0.0	
100	PI2 BPSK	135	0	17.09	17.11	17.13	18.5	0.0	
100	PI2 BPSK	135	69	17.09	17.11	17.13	18.5	0.0	
100	PI2 BPSK	135	138	17.09	17.11	17.13	18.5	0.0	
100	PI2 BPSK	270	0	17.09	17.11	17.13	18.5	0.0	
100	QPSK	1	1	17.09	17.11	17.13	18.5	0.0	
100	QPSK	1	137	17.09	17.11	17.13	18.5	0.0	
100	QPSK	1	271	17.09	17.11	17.13	18.5	0.0	
100	QPSK	135	0	17.09	17.11	17.13	18.5	0.0	
100	QPSK	135	69	17.09	17.11	17.13	18.5	0.0	
100	QPSK	135	138	17.09	17.11	17.13	18.5	0.0	
100	QPSK	270	0	17.09	17.11	17.13	18.5	0.0	
100	16QAM	1	1	17.09	17.11	17.13	18.5	0.0	
100	16QAM	1	137	17.09	17.11	17.13	18.5	0.0	
100	16QAM	1	271	17.09	17.11	17.13	18.5	0.0	
100	16QAM	135	0	17.09	17.11	17.13	18.5	0.0	
100	256QAM	1	1	17.13	17.13	17.13	18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.44	17.47	17.51	18.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.04	17.17	17.10	18.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.09	17.09	17.09	18.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.12	17.15	17.16	18.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.11	17.17	17.16	18.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.16	17.24	17.10	18.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.05	17.16	17.04	18.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.15	17.10	17.11	18.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	17.06	17.06	17.15	18.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	17.12	17.10	17.10	18.5	0.0	



Reduced Power Mode for DSI6 + Sim

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)				1860	1880	1900			
20	PI2 BPSK	1	1	19.18	19.37	19.24			
20	PI2 BPSK	1	53	19.27	19.40	19.26	20.5	0.0	
20	PI2 BPSK	1	104	19.18	19.39	19.27			
20	PI2 BPSK	50	0	19.21	19.35	19.32	20.5	0.0	
20	PI2 BPSK	50	28	19.26	19.38	19.19	20.5	0.0	
20	PI2 BPSK	50	56	19.29	19.34	19.22	20.5	0.0	
20	PI2 BPSK	100	0	19.22	19.36	19.19			
20	QPSK	1	1	19.34	19.44	19.37			
20	QPSK	1	53	19.27	19.31	19.16	20.5	0.0	
20	QPSK	1	104	19.30	19.32	19.20			
20	QPSK	50	0	19.19	19.32	19.26	20.5	0.0	
20	QPSK	50	28	19.20	19.36	19.32	20.5	0.0	
20	QPSK	50	56	19.16	19.32	19.31	20.5	0.0	
20	QPSK	100	0	19.22	19.43	19.23	20.5	0.0	
20	8QAM	1	1	19.23	19.43	19.30	20.5	0.0	
20	8QAM	1	1	19.18	19.31	19.29	20.5	0.0	
20	256QAM	1	1	19.27	19.32	19.19	20.5	0.0	
Channel				371500	376000	380500			
Frequency (MHz)				1872.5	1900	1927.5			
15	QPSK	1	1	19.24	19.42	19.28	20.5	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1865	1890	1905			
10	QPSK	1	1	19.30	19.43	19.28	20.5	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	19.21	19.44	19.22	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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	18.03	18.08	18.11			
20	PI2 BPSK	1	53	18.10	18.09	18.02	20.0	0.0	
20	PI2 BPSK	1	104	18.15	18.15	18.03			
20	PI2 BPSK	50	0	18.03	18.09	18.10	20.0	0.0	
20	PI2 BPSK	50	28	18.09	18.15	18.12	20.0	0.0	
20	PI2 BPSK	50	56	18.15	18.10	18.10	20.0	0.0	
20	PI2 BPSK	100	0	18.09	18.16	18.07			
20	QPSK	1	1	18.16	18.20	18.15			
20	QPSK	1	53	18.10	18.18	18.06	20.0	0.0	
20	QPSK	1	104	18.09	18.05	18.05			
20	QPSK	50	0	18.08	18.13	18.09	20.0	0.0	
20	QPSK	50	28	18.09	18.16	18.13	20.0	0.0	
20	QPSK	50	56	18.03	18.10	18.12	20.0	0.0	
20	QPSK	100	0	18.08	18.12	18.10	20.0	0.0	
20	8QAM	1	1	18.14	18.06	18.13	20.0	0.0	
20	8QAM	1	1	18.17	18.07	18.10	20.0	0.0	
20	256QAM	1	1	18.08	18.13	18.05	19.5	0.5	
Channel				371500	376000	380500			
Frequency (MHz)				1872.5	1900	1927.5			
15	QPSK	1	1	18.09	18.13	18.08	20.0	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1865	1890	1905			
10	QPSK	1	1	18.11	18.14	18.09	20.0	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	18.15	18.10	18.12	20.0	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				166000	167200	167800			
Frequency (MHz)				830	835.5	839			
20	PI2 BPSK	1	1	22.89	22.96	22.76			
20	PI2 BPSK	1	53	22.88	22.84	22.79	24.0	0.0	
20	PI2 BPSK	1	104	22.81	22.90	22.79			
20	PI2 BPSK	50	0	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.83	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.76	24.0	0.0	
20	PI2 BPSK	100	0	22.76	22.81	22.72			
20	QPSK	1	1	22.92	22.97	22.80			
20	QPSK	1	53	22.81	22.78	22.73	24.0	0.0	
20	QPSK	1	104	22.83	22.79	22.72			
20	QPSK	50	0	22.76	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.75	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.68	24.0	0.0	
20	8QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	8QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				165300	167300	168300			
Frequency (MHz)				826.5	831.5	836.5			
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				165800	167300	168800			
Frequency (MHz)				829	831.5	834			
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				166300	167300	169300			
Frequency (MHz)				826.5	831.5	836.5			
5	QPSK	1	1	22.84	22.83	22.78	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	PI2 BPSK	1	1	22.70	22.72	22.63				
20	PI2 BPSK	1	53	22.67	22.75	22.68	24.0	0.0		
20	PI2 BPSK	1	104	22.70	22.73	22.63				
20	PI2 BPSK	50	0	22.50	22.71	22.52	24.0	0.0		
20	PI2 BPSK	50	28	22.67	22.75	22.60	24.0	0.0		
20	PI2 BPSK	50	56	22.58	22.71	22.58	24.0	0.0		
20	PI2 BPSK	100	0	22.58	22.64	22.55				
20	QPSK	1	1	22.73	22.76	22.65				
20	QPSK	1	53	22.61	22.66	22.50	24.0	0.0		
20	QPSK	1	104	22.57	22.68	22.50				
20	QPSK	50	0	22.61	22.68	22.52	24.0	0.0		
20	QPSK	50	28	22.62	22.72	22.57	24.0	0.0		
20	QPSK	50	56	22.61	22.67	22.50	24.0	0.0		
20	QPSK	100	0	22.60	22.64	22.49				
20	16QAM	1	1	22.63	22.61	22.65	24.0	0.0		
20	64QAM	1	1	21.34	21.45	21.37	22.5	1.5		
20	256QAM	1	1	19.33	19.36	19.28	20.5	3.5		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.66	22.73	22.55	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.63	22.73	22.50	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.63	22.72	22.49	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	18.95	18.98	18.91				
40	PI2 BPSK	1	108	18.91	18.95	18.89	20.0	0.0		
40	PI2 BPSK	1	214	18.88	19.00	18.90				
40	PI2 BPSK	108	0	18.95	19.04	18.99	20.0	0.0		
40	PI2 BPSK	108	54	18.92	18.91	18.93	20.0	0.0		
40	PI2 BPSK	108	108	18.86	18.90	18.87	20.0	0.0		
40	PI2 BPSK	216	0	18.94	18.95	18.90				
40	QPSK	1	1	18.97	19.05	18.95				
40	QPSK	1	108	18.85	18.90	18.90	20.0	0.0		
40	QPSK	1	214	18.87	18.96	18.99				
40	QPSK	108	0	18.93	18.94	18.89	20.0	0.0		
40	QPSK	108	54	18.93	18.93	18.95	20.0	0.0		
40	QPSK	108	108	18.86	18.92	18.90	20.0	0.0		
40	QPSK	216	0	18.93	18.99	18.85				
40	16QAM	1	1	18.94	18.99	18.91	20.0	0.0		
40	64QAM	1	1	18.95	19.01	18.93	20.0	0.0		
40	256QAM	1	1	18.62	18.65	18.76	19.5	0.5		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.88	19.02	18.92	20.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	18.90	18.96	18.93	20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.93	18.91	18.89	20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.85	18.93	18.99	20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.91	18.97	18.99	20.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.91	19.02	18.87	20.0	0.0		

n7_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)										
40	PI2 BPSK	1	1	20.99	20.96	20.97				
40	PI2 BPSK	1	108	20.99	20.92	20.90	22.0	0.0		
40	PI2 BPSK	1	214	20.96	20.95	20.97				
40	PI2 BPSK	108	0	20.87	20.96	20.96	22.0	0.0		
40	PI2 BPSK	108	54	20.88	20.98	20.96	22.0	0.0		
40	PI2 BPSK	108	108	20.92	20.92	21.01	22.0	0.0		
40	PI2 BPSK	216	0	20.90	21.02	20.98				
40	QPSK	1	1	21.03	21.07	21.03				
40	QPSK	1	108	20.89	20.96	21.01	22.0	0.0		
40	QPSK	1	214	20.97	20.97	21.01				
40	QPSK	108	0	20.89	20.98	20.99	22.0	0.0		
40	QPSK	108	54	20.95	21.05	21.00	22.0	0.0		
40	QPSK	108	108	20.91	20.95	20.93	22.0	0.0		
40	QPSK	216	0	20.91	21.02	20.92				
40	16QAM	1	1	20.91	20.94	20.91	22.0	0.0		
40	64QAM	1	1	20.87	20.93	20.90	22.0	0.0		
40	256QAM	1	1	20.38	20.46	20.43	21.0	1.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.91	21.06	20.94	22.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	20.98	21.00	20.93	22.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.94	20.99	21.01	22.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.91	21.04	21.02	22.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.98	20.96	21.00	22.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	20.93	20.96	20.99	22.0	0.0		



n12_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)										
15	PI2 BPSK	1	1	22.89	22.90	22.87				
15	PI2 BPSK	1	40	22.87	22.83	22.77	24.0	0.0		
15	PI2 BPSK	1	77	22.78	22.87	22.84				
15	PI2 BPSK	36	0	22.80	22.80	22.69	24.0	0.0		
15	PI2 BPSK	36	22	22.81	22.88	22.78	24.0	0.0		
15	PI2 BPSK	36	43	22.71	22.81	22.75				
15	PI2 BPSK	12	0	22.74	22.85	22.71	24.0	0.0		
15	QPSK	1	1	22.85	22.82	22.82				
15	QPSK	1	40	22.71	22.86	22.72	24.0	0.0		
15	QPSK	1	77	22.74	22.77	22.70				
15	QPSK	36	0	22.71	22.82	22.71	24.0	0.0		
15	QPSK	36	22	22.71	22.83	22.73	24.0	0.0		
15	QPSK	36	43	22.73	22.78	22.69	24.0	0.0		
15	QPSK	75	0	22.76	22.77	22.76				
15	16QAM	1	1	22.78	22.83	22.76	24.0	0.0		
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5		
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0		

n12_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)										
15	PI2 BPSK	1	1	23.31	23.36	23.34				
15	PI2 BPSK	1	40	23.23	23.31	23.23	24.0	0.0		
15	PI2 BPSK	1	77	23.26	23.33	23.31				
15	PI2 BPSK	36	0	23.20	23.30	23.23	24.0	0.0		
15	PI2 BPSK	36	22	23.22	23.33	23.25	24.0	0.0		
15	PI2 BPSK	36	43	23.11	23.24	23.17				
15	PI2 BPSK	12	0	23.21	23.30	23.17	24.0	0.0		
15	QPSK	1	1	23.27	23.37	23.30				
15	QPSK	1	40	23.16	23.22	23.19	24.0	0.0		
15	QPSK	1	77	23.11	23.27	23.18				
15	QPSK	36	0	23.13	23.21	23.22	24.0	0.0		
15	QPSK	36	22	23.21	23.26	23.24	24.0	0.0		
15	QPSK	36	43	23.15	23.23	23.20	24.0	0.0		
15	QPSK	75	0	23.12	23.29	23.23				
15	16QAM	1	1	23.19	23.32	23.15	24.0	0.0		
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.5		
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	23.18	23.32	23.23	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	23.20	23.26	23.23	24.0	0.0		

n14_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)										
10	PI2 BPSK	1	1		22.92					
10	PI2 BPSK	1	26		22.91		24.0	0.0		
10	PI2 BPSK	1	55		22.89					
10	PI2 BPSK	25	0		22.82		24.0	0.0		
10	PI2 BPSK	25	14		22.81		24.0	0.0		
10	PI2 BPSK	25	27		22.82					
10	PI2 BPSK	50	0		22.80		24.0	0.0		
10	QPSK	1	1		22.83					
10	QPSK	1	26		22.84		24.0	0.0		
10	QPSK	1	50		22.89					
10	QPSK	25	0		22.83		24.0	0.0		
10	QPSK	25	14		22.85		24.0	0.0		
10	QPSK	25	27		22.80					
10	QPSK	50	0		22.84		24.0	0.0		
10	16QAM	1	1		22.86		24.0	0.0		
10	64QAM	1	1		22.22		23.0	1.0		
10	256QAM	1	1		20.05		21.0	3.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0		



n14_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)										
10	PI2 BPSK	1	1	22.60	22.54	22.50	24.0	0.0		
10	PI2 BPSK	1	26	22.54	22.54	22.54	24.0	0.0		
10	PI2 BPSK	1	50	22.54	22.54	22.54	24.0	0.0		
10	PI2 BPSK	25	0	22.51	22.51	22.51	24.0	0.0		
10	PI2 BPSK	25	14	22.53	22.53	22.53	24.0	0.0		
10	PI2 BPSK	25	27	22.49	22.49	22.49	24.0	0.0		
10	PI2 BPSK	50	0	22.51	22.51	22.51	24.0	0.0		
10	QPSK	1	1	22.52	22.52	22.52	24.0	0.0		
10	QPSK	1	26	22.50	22.50	22.50	24.0	0.0		
10	QPSK	1	50	22.55	22.55	22.55	24.0	0.0		
10	QPSK	25	0	22.49	22.49	22.49	24.0	0.0		
10	QPSK	25	14	22.57	22.57	22.57	24.0	0.0		
10	QPSK	25	27	22.50	22.50	22.50	24.0	0.0		
10	QPSK	50	0	22.54	22.54	22.54	24.0	0.0		
10	64QAM	1	1	22.49	22.49	22.49	23.0	1.0		
10	64QAM	1	1	22.00	22.00	22.00	23.0	1.0		
10	256QAM	1	1	19.89	19.89	19.89	21.0	3.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.52	22.51	22.58	24.0	0.0		

n25_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	19.27	19.28	19.23	20.5	0.0		
40	PI2 BPSK	1	108	19.28	19.29	19.21	20.5	0.0		
40	PI2 BPSK	1	214	19.29	19.25	19.28	20.5	0.0		
40	PI2 BPSK	108	0	19.20	19.23	19.30	20.5	0.0		
40	PI2 BPSK	108	54	19.27	19.34	19.28	20.5	0.0		
40	PI2 BPSK	108	108	19.28	19.32	19.21	20.5	0.0		
40	PI2 BPSK	216	0	19.20	19.24	19.27	20.5	0.0		
40	QPSK	1	1	19.31	19.45	19.33	20.5	0.0		
40	QPSK	1	108	19.16	19.20	19.24	20.5	0.0		
40	QPSK	1	214	19.24	19.32	19.31	20.5	0.0		
40	QPSK	108	0	19.26	19.34	19.29	20.5	0.0		
40	QPSK	108	54	19.23	19.35	19.30	20.5	0.0		
40	QPSK	108	108	19.20	19.23	19.19	20.5	0.0		
40	QPSK	216	0	19.17	19.23	19.20	20.5	0.0		
40	16QAM	1	1	19.23	19.23	19.29	20.5	0.0		
40	16QAM	1	1	19.17	19.37	19.25	20.5	0.0		
40	256QAM	1	1	19.30	19.27	19.30	20.5	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	19.17	19.29	19.31	20.5	0.0	MPR	
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.23	19.26	19.30	20.5	0.0	MPR	
Channel										
Frequency (MHz)										
25	QPSK	1	1	18.25	18.25	18.25	20.5	0.0	MPR	
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.16	19.37	19.23	20.5	0.0	MPR	
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.30	19.35	19.31	20.5	0.0	MPR	
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.24	19.30	19.22	20.5	0.0	MPR	
Channel										
Frequency (MHz)										
5	QPSK	1	1	19.19	19.28	19.24	20.5	0.0	MPR	

n25_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	18.19	18.09	18.10	20.0	0.0		
40	PI2 BPSK	1	108	18.07	18.22	18.08	20.0	0.0		
40	PI2 BPSK	1	214	18.15	18.12	18.09	20.0	0.0		
40	PI2 BPSK	108	0	18.10	18.20	18.13	20.0	0.0		
40	PI2 BPSK	108	54	18.07	18.22	18.11	20.0	0.0		
40	PI2 BPSK	108	108	18.17	18.13	18.10	20.0	0.0		
40	PI2 BPSK	216	0	18.12	18.15	18.09	20.0	0.0		
40	QPSK	1	1	18.22	18.24	18.20	20.0	0.0		
40	QPSK	1	108	18.18	18.21	18.11	20.0	0.0		
40	QPSK	1	214	18.10	18.18	18.06	20.0	0.0		
40	QPSK	108	0	18.11	18.13	18.08	20.0	0.0		
40	QPSK	108	54	18.15	18.20	18.15	20.0	0.0		
40	QPSK	108	108	18.12	18.15	18.13	20.0	0.0		
40	QPSK	216	0	18.09	18.13	18.05	20.0	0.0		
40	16QAM	1	1	18.12	18.15	18.10	20.0	0.0		
40	16QAM	1	1	18.14	18.12	18.06	20.0	0.0		
40	256QAM	1	1	17.75	17.89	17.74	19.5	0.5		
Channel										
Frequency (MHz)										
35	QPSK	1	1	18.11	18.18	18.17	20.0	0.0	MPR	
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.19	18.16	18.11	20.0	0.0	MPR	
Channel										
Frequency (MHz)										
25	QPSK	1	1	18.25	18.25	18.25	20.0	0.0	MPR	
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.14	18.13	18.14	20.0	0.0	MPR	
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.16	18.15	18.18	20.0	0.0	MPR	
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.12	18.12	18.18	20.0	0.0	MPR	
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.10	18.14	18.07	20.0	0.0	MPR	



n26_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)	MSR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.83	22.87			
20	PI2 BPSK	1	104	22.86	22.78	22.88			
20	PI2 BPSK	50	0	22.85	22.85	22.85	24.0	0.0	
20	PI2 BPSK	50	26	22.92	22.90	22.84	24.0	0.0	
20	PI2 BPSK	50	56	22.87	22.86	22.86	24.0	0.0	
20	PI2 BPSK	100	0	22.86	22.86	22.81	24.0	0.0	
20	QPSK	1	1	22.95	22.95	23.02	24.0	0.0	
20	QPSK	1	53	22.96	22.81	22.86			
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	26	22.87	22.85	22.88	24.0	0.0	
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.86	22.78	22.83	24.0	0.0	
20	16QAM	1	1	22.96	22.85	22.85	24.0	0.0	
20	16QAM	1	1	22.17	22.22	22.23	23.0	1.0	
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.92	22.86	22.89	24.0	0.0	

n26_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)	MSR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.86	22.88	22.87	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.78	22.80			
20	PI2 BPSK	1	104	22.90	22.78	22.81			
20	PI2 BPSK	50	0	22.85	22.87	22.85	24.0	0.0	
20	PI2 BPSK	50	26	22.80	22.85	22.82	24.0	0.0	
20	PI2 BPSK	50	56	22.85	22.80	22.81	24.0	0.0	
20	PI2 BPSK	100	0	22.80	22.82	22.85	24.0	0.0	
20	QPSK	1	1	22.95	22.97	23.00	24.0	0.0	
20	QPSK	1	53	22.95	22.92	22.92			
20	QPSK	1	104	22.94	22.87	22.83			
20	QPSK	50	0	22.85	22.81	22.88	24.0	0.0	
20	QPSK	50	26	22.90	22.85	22.95	24.0	0.0	
20	QPSK	50	56	22.83	22.87	22.81	24.0	0.0	
20	QPSK	100	0	22.85	22.84	22.86	24.0	0.0	
20	16QAM	1	1	22.93	22.87	22.80	24.0	0.0	
20	16QAM	1	1	21.56	21.56	21.63	23.0	1.0	
20	256QAM	1	1	19.29	19.37	19.42	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.89	22.84	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.88	22.86	22.81	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.85	22.87	22.90	24.0	0.0	



n30_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				450000		2115			
Frequency (MHz)									
10	PI2 BPSK	1	1	18.58					
10	PI2 BPSK	1	26	18.56			20.5	0.0	
10	PI2 BPSK	1	50	18.54					
10	PI2 BPSK	25	0	18.53			20.5	0.0	
10	PI2 BPSK	25	14	18.65			20.5	0.0	
10	PI2 BPSK	25	27	18.56			20.5	0.0	
10	PI2 BPSK	50	0	18.64					
10	QPSK	1	1	18.65					
10	QPSK	1	26	18.53			20.5	0.0	
10	QPSK	1	50	18.63					
10	QPSK	25	0	18.53			20.5	0.0	
10	QPSK	25	14	18.59			20.5	0.0	
10	QPSK	25	27	18.57			20.5	0.0	
10	QPSK	50	0	18.54					
10	64QAM	1	1	18.52			20.5	0.0	
10	64QAM	1	1	18.62			20.5	0.0	
10	256QAM	1	1	17.61			19.5	1.0	
Channel				461000		450000			
Frequency (MHz)									
5	QPSK	1	1	18.64	18.60	18.58	20.5	0.0	

n30_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)	MFR (dB)	
Channel				450000		2115			
Frequency (MHz)									
10	PI2 BPSK	1	1	21.00					
10	PI2 BPSK	1	26	20.91			22.0	0.0	
10	PI2 BPSK	1	50	20.86					
10	PI2 BPSK	25	0	20.77			22.0	0.0	
10	PI2 BPSK	25	14	20.90			22.0	0.0	
10	PI2 BPSK	25	27	20.71			22.0	0.0	
10	PI2 BPSK	50	0	21.02					
10	QPSK	1	1	21.05					
10	QPSK	1	26	20.95			22.0	0.0	
10	QPSK	1	50	20.89					
10	QPSK	25	0	20.85			22.0	0.0	
10	QPSK	25	14	20.97			22.0	0.0	
10	QPSK	25	27	20.79			22.0	0.0	
10	QPSK	50	0	21.04					
10	16QAM	1	1	21.02			22.0	0.0	
10	16QAM	1	1	20.93			22.0	0.0	
10	256QAM	1	1	20.88			21.0	1.0	
Channel				461000		450000			
Frequency (MHz)									
5	QPSK	1	1	21.04	21.00	20.98	22.0	0.0	



n66_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	19.95	19.98	19.95				
40	PI2 BPSK	1	108	19.89	19.97	19.88	21.0	0.0		
40	PI2 BPSK	1	214	19.95	19.90	19.88				
40	PI2 BPSK	108	0	19.95	19.99	19.94	21.0	0.0		
40	PI2 BPSK	108	54	19.88	20.00	19.88	21.0	0.0		
40	PI2 BPSK	108	108	19.87	20.03	19.88				
40	PI2 BPSK	216	0	19.91	19.95	19.89	21.0	0.0		
40	QPSK	1	1	19.02	19.05	19.02				
40	QPSK	1	108	19.85	19.92	19.89	21.0	0.0		
40	QPSK	1	214	19.88	19.04	19.97				
40	QPSK	108	0	19.85	19.98	19.89	21.0	0.0		
40	QPSK	108	54	19.95	20.00	19.95	21.0	0.0		
40	QPSK	108	108	19.91	19.97	19.93	21.0	0.0		
40	QPSK	216	0	19.92	20.02	19.87				
40	16QAM	1	1	19.97	20.03	20.00	21.0	0.0		
40	64QAM	1	1	19.92	20.00	20.00	21.0	0.0		
40	256QAM	1	1	19.86	20.01	19.89	21.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	19.85	19.85	20.01	21.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.93	19.97	19.87	21.0	0.0		
Channel										
Frequency (MHz)										
34500	QPSK	34900	35300	34500	34900	35300	Tune-up limit (dB)	MPR (dB)		
25	QPSK	1	1	19.97	20.03	19.89	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.93	19.96	19.93	21.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.92	19.93	19.87	21.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.93	19.99	19.87	21.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	19.92	19.90	19.89	21.0	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)										
40	PI2 BPSK	1	1	19.18	19.07	19.08				
40	PI2 BPSK	1	108	19.09	19.17	19.08	20.0	0.0		
40	PI2 BPSK	1	214	19.12	19.18	19.18				
40	PI2 BPSK	108	0	19.14	19.15	19.19	20.0	0.0		
40	PI2 BPSK	108	54	19.13	19.16	19.15	20.0	0.0		
40	PI2 BPSK	108	108	19.08	19.12	19.06				
40	PI2 BPSK	216	0	19.17	19.16	19.16	20.0	0.0		
40	QPSK	1	1	19.20	19.22	19.15				
40	QPSK	1	108	19.16	19.21	19.03	20.0	0.0		
40	QPSK	1	214	19.17	19.14	19.08				
40	QPSK	108	0	19.12	19.09	19.16	20.0	0.0		
40	QPSK	108	54	19.14	19.15	19.17	20.0	0.0		
40	QPSK	108	108	19.07	19.13	19.08	20.0	0.0		
40	QPSK	216	0	19.17	19.18	19.14				
40	16QAM	1	1	19.06	19.17	19.10	20.0	0.0		
40	64QAM	1	1	19.16	19.08	19.15	20.0	0.0		
40	256QAM	1	1	18.84	18.86	18.83	19.5	0.5		
Channel										
Frequency (MHz)										
35	QPSK	1	1	19.19	19.17	19.12	20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.16	19.10	19.10	20.0	0.0		
Channel										
Frequency (MHz)										
34400	QPSK	34900	35300	34400	34900	35300	Tune-up limit (dB)	MPR (dB)		
25	QPSK	1	1	19.13	19.18	19.10	20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.13	19.09	19.12	20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	19.10	19.17	19.06	20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.18	19.12	19.03	20.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	19.06	19.09	19.06	20.0	0.0		

n70_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)										
15	PI2 BPSK	1	1		20.68					
15	PI2 BPSK	1	40		20.78		22.0	0.0		
15	PI2 BPSK	1	77		20.72					
15	PI2 BPSK	36	0		20.75		22.0	0.0		
15	PI2 BPSK	36	22		20.73		22.0	0.0		
15	PI2 BPSK	36	43		20.67		22.0	0.0		
15	PI2 BPSK	75	0		20.69					
15	QPSK	1	1		20.82					
15	QPSK	1	40		20.73		22.0	0.0		
15	QPSK	1	77		20.73					
15	QPSK	36	0		20.68		22.0	0.0		
15	QPSK	36	22		20.70		22.0	0.0		
15	QPSK	36	43		20.67		22.0	0.0		
15	QPSK	75	0		20.75					
15	16QAM	1	1		20.79		22.0	0.0		
15	64QAM	1	1		20.74		22.0	0.0		
15	256QAM	1	1		20.35		21.5	0.5		
Channel										
Frequency (MHz)										
34500	QPSK	34900	34900	34500	34900	34900	Tune-up limit (dB)	MPR (dB)		
10	QPSK	1	1	20.81	20.77	20.68	22.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	20.70	20.69	20.81	22.0	0.0		



n70_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)									
15	PI2 BPSK	1	1	20.89					
15	PI2 BPSK	1	40	20.78			21.5	0.0	
15	PI2 BPSK	1	77	20.82					
15	PI2 BPSK	36	0	20.81			21.5	0.0	
15	PI2 BPSK	36	22	20.82			21.5	0.0	
15	PI2 BPSK	36	43	20.89			21.5	0.0	
15	PI2 BPSK	12	0	20.85					
15	QPSK	1	1	20.92					
15	QPSK	1	40	20.91			21.5	0.0	
15	QPSK	1	77	20.82					
15	QPSK	36	0	20.78			21.5	0.0	
15	QPSK	36	22	20.91			21.5	0.0	
15	QPSK	36	43	20.82			21.5	0.0	
15	QPSK	75	0	20.85			21.5	0.0	
15	16QAM	1	1	20.85					
15	16QAM	1	1	20.79			21.5	0.0	
15	256QAM	1	1	18.96			19.5	2.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	34000	34000	34100	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.85	20.83	20.84	21.5	0.0	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.09	23.03			
30	PI2 BPSK	1	80	23.01	23.04	22.92	24.0	0.0	
30	PI2 BPSK	1	158	23.00	23.08	23.01			
30	PI2 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	PI2 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	PI2 BPSK	80	80	22.91	23.02	22.92	24.0	0.0	
30	PI2 BPSK	160	0	22.95	22.99	22.98			
30	QPSK	1	1	23.08	23.10	23.01			
30	QPSK	1	80	22.94	22.98	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97			
30	QPSK	80	0	22.89	22.93	22.91	24.0	0.0	
30	QPSK	80	40	22.91	22.96	22.93	24.0	0.0	
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.95	22.96			
30	16QAM	1	1	22.90	22.93	22.93	24.0	0.0	
30	16QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.83	22.97	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.80	22.89	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.96	22.92	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.13	23.13			
30	PI2 BPSK	1	80	23.15	23.16	23.10	24.0	0.0	
30	PI2 BPSK	1	158	23.18	23.24	23.20			
30	PI2 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	PI2 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	PI2 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	PI2 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09			
30	QPSK	80	0	23.09	23.09	23.11	24.0	0.0	
30	QPSK	80	40	23.13	23.19	23.17	24.0	0.0	
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06			
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0	
30	16QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_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)				2596.02	2595	2595.98			
40	PI2 BPSK	1	1	19.19	19.31	19.39			
40	PI2 BPSK	1	53	19.22	19.37	19.25	21.0	0.0	
40	PI2 BPSK	1	104	19.22	19.35	19.19			
40	PI2 BPSK	50	0	19.11	19.28	19.30	21.0	0.0	
40	PI2 BPSK	50	28	19.21	19.33	19.18	21.0	0.0	
40	PI2 BPSK	50	56	19.15	19.24	19.25			
40	PI2 BPSK	100	0	19.28	19.19	19.28	21.0	0.0	
40	QPSK	1	1	19.34	19.42	19.36			
40	QPSK	1	53	19.23	19.23	19.25	21.0	0.0	
40	QPSK	1	104	19.15	19.28	19.21			
40	QPSK	50	0	19.16	19.30	19.22			
40	QPSK	50	28	19.26	19.24	19.25			
40	QPSK	50	56	19.20	19.28	19.17	21.0	0.0	
40	QPSK	100	0	19.26	19.35	19.18	21.0	0.0	
40	16QAM	1	1	19.27	19.27	19.32	21.0	0.0	
40	16QAM	1	1	19.17	19.22	19.26	21.0	0.0	
40	16QAM	1	1	18.44	18.55	18.43	19.5	1.5	
Channel									
Frequency (MHz)				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.31	19.39	19.18	21.0	0.0	
Channel									
Frequency (MHz)				518000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	2580	2595	2610			
Channel									
Frequency (MHz)				2577.51	2595	2612.48	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.25	19.29	19.19	21.0	0.0	
Channel									
Frequency (MHz)				519004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.28	19.32	19.23	21.0	0.0	

n38_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)				2596.02	2595	2595.98			
40	PI2 BPSK	1	1	21.06	21.45	21.39			
40	PI2 BPSK	1	53	21.33	21.41	21.41	22.5	0.0	
40	PI2 BPSK	1	104	21.33	21.42	21.28			
40	PI2 BPSK	50	0	21.30	21.46	21.38	22.5	0.0	
40	PI2 BPSK	50	28	21.38	21.47	21.38	22.5	0.0	
40	PI2 BPSK	50	56	21.37	21.47	21.32			
40	PI2 BPSK	100	0	21.30	21.35	21.35	22.5	0.0	
40	QPSK	1	1	21.44	21.49	21.42			
40	QPSK	1	53	21.36	21.46	21.40	22.5	0.0	
40	QPSK	1	104	21.39	21.42	21.41			
40	QPSK	50	0	21.33	21.40	21.32			
40	QPSK	50	28	21.38	21.42	21.44			
40	QPSK	50	56	21.30	21.40	21.28	22.5	0.0	
40	QPSK	100	0	21.30	21.40	21.38	22.5	0.0	
40	16QAM	1	1	21.31	21.46	21.30	22.5	0.0	
40	16QAM	1	1	21.39	21.40	21.29	22.5	0.0	
40	16QAM	1	1	20.51	20.84	20.82	21.5	1.0	
Channel									
Frequency (MHz)				517002	518000	520998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	21.35	21.35	21.38	22.5	0.0	
Channel									
Frequency (MHz)				518000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	21.39	21.36	21.34	22.5	0.0	
Channel									
Frequency (MHz)				2577.51	2595	2612.48	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	21.36	21.37	21.33	22.5	0.0	
Channel									
Frequency (MHz)				519004	519000	522996	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	21.29	21.47	21.27	22.5	0.0	

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)				2546.01	2542.99	2543			
100	PI2 BPSK	1	1	19.20	19.42	19.40			
100	PI2 BPSK	1	137	19.27	19.44	19.34	21.0	0.0	
100	PI2 BPSK	1	271	19.29	19.38	19.31			
100	PI2 BPSK	135	0	19.26	19.32	19.35	21.0	0.0	
100	PI2 BPSK	135	69	19.31	19.39	19.30	21.0	0.0	
100	PI2 BPSK	135	138	19.28	19.35	19.30			
100	PI2 BPSK	270	0	19.36	19.33	19.28	21.0	0.0	
100	QPSK	1	1	19.39	19.40	19.42			
100	QPSK	1	137	19.31	19.37	19.31	21.0	0.0	
100	QPSK	1	271	19.28	19.40	19.37			
100	QPSK	135	0	19.24	19.37	19.32			
100	QPSK	135	69	19.31	19.40	19.36	21.0	0.0	
100	QPSK	135	138	19.29	19.31	19.31			
100	QPSK	270	0	19.34	19.36	19.28	21.0	0.0	
100	16QAM	1	1	19.36	19.38	19.37	21.0	0.0	
100	16QAM	1	1	19.24	19.36	19.31	21.0	0.0	
100	16QAM	1	1	19.30	19.31	19.36	21.0	0.0	
Channel									
Frequency (MHz)				506000	518998	520998	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.38	19.34	19.37	21.0	0.0	
Channel									
Frequency (MHz)				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	19.30	19.35	19.27	21.0	0.0	
Channel									
Frequency (MHz)				2531.01	2592.99	2605	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	19.30	19.39	19.28	21.0	0.0	
Channel									
Frequency (MHz)				505200	518998	521996	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	19.33	19.40	19.32	21.0	0.0	
Channel									
Frequency (MHz)				506204	518998	522996	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	19.33	19.32	19.32	21.0	0.0	
Channel									
Frequency (MHz)				2516.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	19.38	19.32	19.34	21.0	0.0	
Channel									
Frequency (MHz)				522204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	19.34	19.40	19.34	21.0	0.0	
Channel									
Frequency (MHz)				507204	518998	520998	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	19.38	19.35	19.38	21.0	0.0	
Channel									
Frequency (MHz)				500700	518998	526498	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	19.35	19.39	19.32	21.0	0.0	
Channel									
Frequency (MHz)				2501.01	2592.99	2685	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	19.31	19.42	19.38	21.0	0.0	



n41_Ant 1_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	High Ch. Freq.		
Channel				506002	518098	526000		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	19.26	19.42	19.40		
100	PI2 BPSK	1	137	19.27	19.44	19.34	21.0	0.0
100	PI2 BPSK	1	271	19.29	19.38	19.31		
100	PI2 BPSK	135	0	19.26	19.32	19.35	21.0	0.0
100	PI2 BPSK	135	69	19.31	19.39	19.30	21.0	0.0
100	PI2 BPSK	135	138	19.28	19.35	19.30	21.0	0.0
100	PI2 BPSK	270	0	19.36	19.33	19.28		
100	QPSK	1	1	19.35	19.45	19.42		
100	QPSK	1	137	19.31	19.37	19.31	21.0	0.0
100	QPSK	1	271	19.28	19.40	19.37		
100	QPSK	135	0	19.24	19.37	19.32		
100	QPSK	135	69	19.31	19.40	19.35	21.0	0.0
100	QPSK	135	138	19.29	19.31	19.31		
100	QPSK	270	0	19.34	19.36	19.28	21.0	0.0
100	16QAM	1	1	19.36	19.38	19.37	21.0	0.0
100	16QAM	1	1	19.24	19.36	19.31	21.0	0.0
100	256QAM	1	1	19.35	19.31	19.36	21.0	0.0
Channel				506000	518098	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	19.38	19.34	19.27	21.0	0.0
Channel				507204	518098	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.30	19.35	19.27	21.0	0.0
Channel				505205	518098	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.30	19.39	19.28	21.0	0.0
Channel				505200	518098	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	19.33	19.40	19.27	21.0	0.0
Channel				504204	518098	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.33	19.32	19.32	21.0	0.0
Channel				503202	518098	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.35	19.32	19.34	21.0	0.0
Channel				502200	518098	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.34	19.40	19.34	21.0	0.0
Channel				507204	518098	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.38	19.35	19.38	21.0	0.0
Channel				507000	518098	538400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2683.48		
15	QPSK	1	1	19.38	19.31	19.31	21.0	0.0
Channel				506002	518098	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.31	19.42	19.39	21.0	0.0



n41_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				506002	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.31	20.44	20.29		
100	PI2 BPSK	1	137	20.11	20.27	20.06	22.0	0.0
100	PI2 BPSK	1	271	20.21	20.27	20.22		
100	PI2 BPSK	135	0	20.16	20.28	20.20	22.0	0.0
100	PI2 BPSK	135	69	20.15	20.21	20.11	22.0	0.0
100	PI2 BPSK	135	138	20.11	20.23	20.21		
100	PI2 BPSK	270	0	20.12	20.21	20.10	22.0	0.0
100	QPSK	1	1	20.34	20.49	20.34		
100	QPSK	1	137	20.24	20.27	20.32	22.0	0.0
100	QPSK	1	271	20.05	20.24	20.19		
100	QPSK	135	0	20.15	20.31	20.13		
100	QPSK	135	69	20.08	20.38	20.28	22.0	0.0
100	QPSK	135	138	20.05	20.11	20.08		
100	QPSK	270	0	20.22	20.33	20.25	22.0	0.0
100	16QAM	1	1	20.12	20.26	20.26	22.0	0.0
100	64QAM	1	1	18.92	20.04	20.06	21.5	0.5
100	256QAM	1	1	18.02	18.26	18.11	20.0	2.0
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
80	QPSK	1	1	20.23	20.41	20.20	22.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	20.30	20.43	20.32	22.0	0.0
Channel				508408	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	20.28	20.32	20.30	22.0	0.0
Channel				509200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2669.98	(dBm)	(dB)
60	QPSK	1	1	20.18	20.32	20.23	22.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	20.21	20.29	20.19	22.0	0.0
Channel				505002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	20.25	20.45	20.33	22.0	0.0
Channel				505200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	20.20	20.47	20.33	22.0	0.0
Channel				507004	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	20.17	20.46	20.27	22.0	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	20.31	20.34	20.15	22.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	20.20	20.47	20.27	22.0	0.0

n41_Ant 2_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				506002	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.43	22.48	22.22		
100	PI2 BPSK	1	137	22.08	22.22	22.16	24.0	0.0
100	PI2 BPSK	1	271	22.19	22.23	22.21		
100	PI2 BPSK	135	0	21.88	21.99	21.88	23.5	0.5
100	PI2 BPSK	135	69	22.08	22.10	22.08	24.0	0.0
100	PI2 BPSK	135	138	21.75	21.89	21.69		
100	PI2 BPSK	270	0	21.75	21.88	21.74	23.5	0.5
100	QPSK	1	1	22.40	22.51	22.44		
100	QPSK	1	137	22.28	22.37	22.31	24.0	0.0
100	QPSK	1	271	22.08	22.18	22.12		
100	QPSK	135	0	21.83	21.92	21.83		
100	QPSK	135	69	22.07	22.06	22.07	24.0	0.0
100	QPSK	135	138	21.45	21.46	21.34		
100	QPSK	270	0	21.31	21.35	21.29	23.0	1.0
100	16QAM	1	1	21.88	21.83	21.68	23.0	1.0
100	64QAM	1	1	20.91	20.92	20.29	21.5	2.5
100	256QAM	1	1	18.12	18.21	18.19	19.5	4.5
Channel				506000	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)
80	QPSK	1	1	22.35	22.35	22.12	24.0	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)
80	QPSK	1	1	22.36	22.43	22.11	24.0	0.0
Channel				508408	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655	(dBm)	(dB)
70	QPSK	1	1	22.34	22.41	22.12	24.0	0.0
Channel				509200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2669.98	(dBm)	(dB)
60	QPSK	1	1	22.37	22.40	22.15	24.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	(dBm)	(dB)
50	QPSK	1	1	22.32	22.43	22.18	24.0	0.0
Channel				505002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)
40	QPSK	1	1	22.34	22.30	22.21	24.0	0.0
Channel				505200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)
30	QPSK	1	1	22.42	22.42	22.15	24.0	0.0
Channel				507004	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)
20	QPSK	1	1	22.34	22.39	22.18	24.0	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.5	2592.99	2682.48	(dBm)	(dB)
15	QPSK	1	1	22.41	22.36	22.17	24.0	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)
10	QPSK	1	1	22.37	22.34	22.18	24.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				2946.01	2992.99	2940		
100	PI2 BPSK	1	1	23.04	23.15	22.97		
100	PI2 BPSK	1	137	22.97	23.06	22.86	24.0	0.0
100	PI2 BPSK	1	271	22.81	22.89	22.86		
100	PI2 BPSK	155	0	22.96	23.11	22.86	24.0	0.0
100	PI2 BPSK	155	69	23.00	23.15	22.90	24.0	0.0
100	PI2 BPSK	155	138	22.74	22.88	22.80	24.0	0.0
100	PI2 BPSK	270	0	22.96	23.05	22.84		
100	QPSK	1	1	22.97	23.18	22.84		
100	QPSK	1	137	22.95	23.06	22.83	24.0	0.0
100	QPSK	1	271	22.90	22.91	22.79		
100	QPSK	155	0	22.92	23.04	22.79		
100	QPSK	155	69	22.74	22.98	22.79	24.0	0.0
100	QPSK	155	138	22.82	22.75	22.64		
100	QPSK	270	0	22.88	22.72	22.61	24.0	0.0
100	16QAM	1	1	22.91	23.07	22.86	24.0	0.0
100	64QAM	1	1	21.86	21.91	21.86	22.5	1.5
100	256QAM	1	1	18.68	18.79	18.73	20.5	3.5
Channel								
Frequency (MHz)				2941	2992.99	2944.98		
90	QPSK	1	1	22.83	23.10	22.88	24.0	0.0
Channel								
Frequency (MHz)				50724	51858	52098		
80	QPSK	1	1	25.62	25.62	26.49	24.0	0.0
Channel								
Frequency (MHz)				2631.01	2692.99	2655		
70	QPSK	1	1	23.02	23.05	23.01	24.0	0.0
Channel								
Frequency (MHz)				50200	51858	53196		
60	QPSK	1	1	22.92	23.05	22.86	24.0	0.0
Channel								
Frequency (MHz)				50424	51858	53298		
50	QPSK	1	1	22.92	23.12	22.89	24.0	0.0
Channel								
Frequency (MHz)				50502	51858	53500		
40	QPSK	1	1	22.90	23.07	22.80	24.0	0.0
Channel								
Frequency (MHz)				2611	2662.99	2674.98		
30	QPSK	1	1	22.88	23.06	22.89	24.0	0.0
Channel								
Frequency (MHz)				50724	51858	53598		
20	QPSK	1	1	22.90	23.12	22.85	24.0	0.0
Channel								
Frequency (MHz)				50070	51858	53646		
15	QPSK	1	1	22.99	23.04	22.88	24.0	0.0
Channel								
Frequency (MHz)				50002	51858	53700		
10	QPSK	1	1	23.00	23.05	22.85	24.0	0.0

n41_Ant 5_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)				2940.01	2992.99	2940		
100	PI2 BPSK	1	1	23.00	23.15	22.97		
100	PI2 BPSK	1	137	22.97	23.06	22.86	24.5	0.0
100	PI2 BPSK	1	271	22.81	22.89	22.86		
100	PI2 BPSK	155	0	22.96	23.11	22.86	24.5	0.0
100	PI2 BPSK	155	69	23.00	23.15	22.90	24.5	0.0
100	PI2 BPSK	155	138	22.74	22.88	22.80	24.5	0.0
100	PI2 BPSK	270	0	22.96	23.05	22.84		
100	QPSK	1	1	22.97	23.18	22.84		
100	QPSK	1	137	22.95	23.06	22.83	24.5	0.0
100	QPSK	1	271	22.90	22.91	22.79		
100	QPSK	155	0	22.92	23.04	22.79		
100	QPSK	155	69	22.74	22.98	22.79	24.5	0.0
100	QPSK	155	138	22.82	22.75	22.64		
100	QPSK	270	0	22.88	22.72	22.61	24.5	0.0
100	16QAM	1	1	22.91	23.07	22.86	24.5	0.0
100	64QAM	1	1	21.86	21.91	21.86	22.5	2.0
100	256QAM	1	1	18.68	18.79	18.73	20.5	4.0
Channel								
Frequency (MHz)				2941	2992.99	2944.98		
90	QPSK	1	1	22.83	23.10	22.88	24.5	0.0
Channel								
Frequency (MHz)				50724	51858	52098		
80	QPSK	1	1	25.62	25.62	26.49	24.5	0.0
Channel								
Frequency (MHz)				2631.01	2692.99	2655		
70	QPSK	1	1	23.02	23.05	23.01	24.5	0.0
Channel								
Frequency (MHz)				50200	51858	53196		
60	QPSK	1	1	22.92	23.05	22.86	24.5	0.0
Channel								
Frequency (MHz)				50424	51858	53298		
50	QPSK	1	1	22.92	23.12	22.89	24.5	0.0
Channel								
Frequency (MHz)				50502	51858	53500		
40	QPSK	1	1	22.90	23.07	22.80	24.5	0.0
Channel								
Frequency (MHz)				2611	2662.99	2674.98		
30	QPSK	1	1	22.88	23.06	22.89	24.5	0.0
Channel								
Frequency (MHz)				50724	51858	53598		
20	QPSK	1	1	22.90	23.12	22.85	24.5	0.0
Channel								
Frequency (MHz)				50070	51858	53646		
15	QPSK	1	1	22.99	23.04	22.88	24.5	0.0
Channel								
Frequency (MHz)				50002	51858	53700		
10	QPSK	1	1	23.00	23.05	22.85	24.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Hgh. Ch. Freq.		
Channel				506202	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.97	21.01	20.91		
100	PI2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PI2 BPSK	1	271	20.93	21.11	20.89		
100	PI2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PI2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PI2 BPSK	135	138	20.76	21.01	20.89	22.5	0.0
100	PI2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.08		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	16QAM	1	1	20.37	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506200	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.00	21.04	20.91	22.5	0.0
Channel				508200	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				509200	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518598	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	21.09	21.11	20.90	22.5	0.0
Channel				505202	518598	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.00	20.99	20.92	22.5	0.0
Channel				506200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518598	538498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.5	2592.99	2682.48		
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				506202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2685		
10	QPSK	1	1	21.07	21.03	20.94	22.5	0.0



n41_Ant 6_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Highest Ch. Freq.		
Channel				506002	518998	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.84	22.74	22.67		
100	PI2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0
100	PI2 BPSK	1	271	22.71	22.93	22.61		
100	PI2 BPSK	135	0	22.26	22.14	22.38	24.0	0.5
100	PI2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0
100	PI2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5
100	PI2 BPSK	270	0	22.26	22.19	22.28		
100	QPSK	1	1	22.81	22.88	22.85		
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0
100	QPSK	1	271	22.61	22.48	22.63		
100	QPSK	135	0	21.73	21.75	21.76		
100	QPSK	135	69	22.61	22.67	22.61	24.5	0.0
100	QPSK	135	138	21.62	21.71	21.71		
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0
100	64QAM	1	1	20.48	20.64	20.48	22.0	2.5
100	256QAM	1	1	18.25	18.56	18.31	20.0	4.5
Channel				506000	518998	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	22.83	22.88	22.79	24.5	0.0
Channel				507204	518998	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2648.98		
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0
Channel				508200	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2656		
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0
Channel				509200	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0
Channel				504204	518998	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	22.89	22.94	22.83	24.5	0.0
Channel				505202	518998	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.89	22.94	22.79	24.5	0.0
Channel				506200	518998	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0
Channel				507204	518998	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0
Channel				507000	518998	538400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0
Channel				506202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel				506002	518598	526000			
Frequency (MHz)				2541.01	2592.99	2643			
100	PI2 BPSK	1	1	21.52	21.45	21.45			
100	PI2 BPSK	1	137	21.40	21.54	21.40	22.5	0.0	
100	PI2 BPSK	1	271	21.52	21.53	21.41			
100	PI2 BPSK	135	0	21.41	21.49	21.40	22.5	0.0	
100	PI2 BPSK	135	69	21.43	21.48	21.43	22.5	0.0	
100	PI2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0	
100	PI2 BPSK	270	0	21.40	21.50	21.37			
100	QPSK	1	1	21.52	21.58	21.52			
100	QPSK	1	137	21.45	21.49	21.45	22.5	0.0	
100	QPSK	1	271	21.46	21.58	21.37			
100	QPSK	135	0	21.40	21.50	21.39			
100	QPSK	135	69	21.43	21.48	21.43	22.5	0.0	
100	QPSK	135	138	21.48	21.52	21.40	22.5	0.0	
100	QPSK	270	0	21.44	21.54	21.43	22.5	0.0	
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0	
100	64QAM	1	1	21.50	21.57	21.51	22.5	0.0	
100	256QAM	1	1	21.43	21.51	21.50	22.5	0.0	
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.44	21.54	21.48	22.5	0.0	
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2692.99	2649.99			
80	QPSK	1	1	21.51	21.56	21.48	22.5	0.0	
Channel				2631.01	2692.99	2655	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				21.48	21.47	21.48	22.5	0.0	
70	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2692.99	2698.98			
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2692.99	2684.99			
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0	
Channel				503002	518598	535000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2618.01	2692.99	2670			
40	QPSK	1	1	21.40	21.43	21.42	22.5	0.0	
Channel				502200	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2692.99	2674.98			
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0	
Channel				500204	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2606.02	2692.99	2679.99			
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2692.99	2682.48			
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0	
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2601.01	2692.99	2665			
10	QPSK	1	1	21.51	21.49	21.49	22.5	0.0	

n41_Ant 9_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel				506002	518598	526000			
Frequency (MHz)				2541.01	2592.99	2643			
100	PI2 BPSK	1	1	21.52	21.53	21.45			
100	PI2 BPSK	1	137	21.40	21.54	21.40	22.5	0.0	
100	PI2 BPSK	1	271	21.52	21.53	21.41			
100	PI2 BPSK	135	0	21.41	21.49	21.40	22.5	0.0	
100	PI2 BPSK	135	69	21.43	21.48	21.43	22.5	0.0	
100	PI2 BPSK	135	138	21.42	21.58	21.37	22.5	0.0	
100	PI2 BPSK	270	0	21.40	21.50	21.37			
100	QPSK	1	1	21.52	21.58	21.52			
100	QPSK	1	137	21.45	21.49	21.45	22.5	0.0	
100	QPSK	1	271	21.46	21.58	21.37			
100	QPSK	135	0	21.40	21.50	21.39			
100	QPSK	135	69	21.43	21.48	21.43	22.5	0.0	
100	QPSK	135	138	21.48	21.52	21.40	22.5	0.0	
100	QPSK	270	0	21.44	21.54	21.43	22.5	0.0	
100	16QAM	1	1	21.52	21.45	21.49	22.5	0.0	
100	64QAM	1	1	21.50	21.57	21.51	22.5	0.0	
100	256QAM	1	1	21.43	21.51	21.50	22.5	0.0	
Channel				506000	518598	526996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	21.44	21.54	21.48	22.5	0.0	
Channel				507204	518598	526998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2636.02	2692.99	2649.99			
80	QPSK	1	1	21.51	21.56	21.48	22.5	0.0	
Channel				2631.01	2692.99	2655	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				21.48	21.47	21.48	22.5	0.0	
70	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				502000	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2692.99	2698.98			
60	QPSK	1	1	21.43	21.45	21.47	22.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2621.02	2692.99	2684.99			
50	QPSK	1	1	21.50	21.47	21.39	22.5	0.0	
Channel				503002	518598	535000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2618.01	2692.99	2670			
40	QPSK	1	1	21.40	21.43	21.42	22.5	0.0	
Channel				502200	518598	535996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2611	2692.99	2674.98			
30	QPSK	1	1	21.45	21.58	21.48	22.5	0.0	
Channel				500204	518598	536998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2606.02	2692.99	2679.99			
20	QPSK	1	1	21.50	21.53	21.50	22.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2603.5	2692.99	2682.48			
15	QPSK	1	1	21.40	21.51	21.37	22.5	0.0	
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2601.01	2692.99	2665			
10	QPSK	1	1	21.51	21.49	21.49	22.5	0.0	



n48_FCC_Part96_Ant 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MFR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq	
Channel				636000	641666	645332	
Frequency (MHz)				3574	3624.99	3679.98	
40	PI2 BPSK	1	1	17.81	17.87	17.77	
40	PI2 BPSK	1	53	17.82	17.83	17.80	19.0
40	PI2 BPSK	1	104	17.87	17.83	17.83	
40	PI2 BPSK	50	0	17.78	17.83	17.81	19.0
40	PI2 BPSK	50	26	17.85	17.85	17.83	19.0
40	PI2 BPSK	50	56	17.87	17.87	17.84	
40	PI2 BPSK	100	0	17.83	17.83	17.78	19.0
40	QPSK	1	1	17.85	17.85	17.80	
40	QPSK	1	53	17.77	17.85	17.80	19.0
40	QPSK	1	104	17.83	17.81	17.80	
40	QPSK	50	0	17.80	17.85	17.78	
40	QPSK	50	26	17.85	17.85	17.84	19.0
40	QPSK	50	56	17.82	17.80	17.80	
40	QPSK	100	0	17.82	17.85	17.85	19.0
40	16QAM	1	1	17.85	17.80	17.85	19.0
40	64QAM	1	1	17.82	17.80	17.80	19.0
40	256QAM	1	1	17.75	17.82	17.82	19.0
Channel				637668	641666	645666	
Frequency (MHz)				3695.02	3624.99	3684.99	
30	QPSK	1	1	17.85	17.87	17.75	19.0
Channel				637234	641666	646000	
Frequency (MHz)				3660.01	3624.99	3690	
20	QPSK	1	1	17.76	17.82	17.83	19.0
Channel				637000	641666	645332	
Frequency (MHz)				3655	3624.99	3694.98	
10	QPSK	1	1	17.81	17.90	17.79	19.0

n48_FCC_Part96_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	MFR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq	
Channel				636000	641666	645332	
Frequency (MHz)				3574	3624.99	3679.98	
40	PI2 BPSK	1	1	17.69	17.84	17.73	
40	PI2 BPSK	1	53	17.63	17.80	17.79	19.0
40	PI2 BPSK	1	104	17.66	17.78	17.71	
40	PI2 BPSK	50	0	17.63	17.70	17.71	19.0
40	PI2 BPSK	50	26	17.70	17.81	17.74	19.0
40	PI2 BPSK	50	56	17.72	17.71	17.79	
40	PI2 BPSK	100	0	17.68	17.78	17.73	19.0
40	QPSK	1	1	17.65	17.85	17.80	
40	QPSK	1	53	17.63	17.82	17.71	19.0
40	QPSK	1	104	17.62	17.78	17.68	
40	QPSK	50	0	17.66	17.81	17.69	
40	QPSK	50	26	17.75	17.82	17.76	19.0
40	QPSK	50	56	17.63	17.75	17.73	
40	QPSK	100	0	17.71	17.77	17.69	19.0
40	16QAM	1	1	17.70	17.78	17.72	19.0
40	64QAM	1	1	17.73	17.76	17.77	19.0
40	256QAM	1	1	17.75	17.78	17.68	19.0
Channel				637668	641666	645666	
Frequency (MHz)				3695.02	3624.99	3684.99	
30	QPSK	1	1	17.71	17.72	17.68	19.0
Channel				637234	641666	646000	
Frequency (MHz)				3660.01	3624.99	3690	
20	QPSK	1	1	17.66	17.73	17.67	19.0
Channel				637000	641666	645332	
Frequency (MHz)				3655	3624.99	3694.98	
10	QPSK	1	1	17.74	17.77	17.77	19.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3200	3623.99	3673.98	
40	PI2 BPSK	1	1	2127	2132	2099	22.5
40	PI2 BPSK	1	53	2076	2088	2084	0.0
40	PI2 BPSK	1	104	2107	2122	2114	0.0
40	PI2 BPSK	50	0	2071	2070	2070	22.5
40	PI2 BPSK	50	26	2133	2126	2125	0.0
40	PI2 BPSK	50	56	2065	2065	2066	22.5
40	PI2 BPSK	100	0	2061	2068	2067	0.0
40	QPSK	1	1	2130	2148	2146	22.5
40	QPSK	1	53	2133	2135	2120	0.0
40	QPSK	1	104	2110	2117	2107	0.0
40	QPSK	50	0	2072	2080	2078	22.5
40	QPSK	50	26	2126	2135	2126	0.0
40	QPSK	50	56	2069	2074	2066	0.0
40	QPSK	100	0	2061	2071	2064	22.0
40	16QAM	1	1	1989	2003	1999	21.5
40	16QAM	1	1	1829	1837	1827	20.0
40	16QAM	1	1	1836	1837	1812	18.0
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.99	
30	QPSK	1	1	2124	2147	2143	22.5
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	2130	2144	2145	22.5
Channel				635000	641666	645332	
Frequency (MHz)				3365	3624.99	3694.98	
10	QPSK	1	1	2130	2144	2140	22.5

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3200	3623.99	3673.98	
40	PI2 BPSK	1	1	1837	1849	1832	19.5
40	PI2 BPSK	1	53	1834	1839	1836	0.0
40	PI2 BPSK	1	104	1829	1836	1833	0.0
40	PI2 BPSK	50	0	1832	1846	1844	19.5
40	PI2 BPSK	50	26	1833	1840	1832	0.0
40	PI2 BPSK	50	56	1831	1844	1842	19.5
40	PI2 BPSK	100	0	1830	1849	1832	0.0
40	QPSK	1	1	1842	1850	1846	19.5
40	QPSK	1	53	1840	1842	1842	0.0
40	QPSK	1	104	1831	1837	1836	0.0
40	QPSK	50	0	1828	1842	1836	19.5
40	QPSK	50	26	1840	1847	1844	0.0
40	QPSK	50	56	1839	1845	1839	0.0
40	QPSK	100	0	1829	1845	1834	19.5
40	16QAM	1	1	1837	1841	1837	19.5
40	16QAM	1	1	1826	1848	1834	18.5
40	16QAM	1	1	1830	1845	1831	18.5
Channel				637668	641666	645666	
Frequency (MHz)				3565.02	3624.99	3684.99	
30	QPSK	1	1	1839	1842	1845	19.5
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3624.99	3690	
20	QPSK	1	1	1841	1835	1832	19.5
Channel				635000	641666	645332	
Frequency (MHz)				3365	3624.99	3694.98	
10	QPSK	1	1	1838	1840	1832	19.5



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BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	18.53	18.57	18.49		
100	Pi2 BPSK	1	137	18.55	18.61	18.49	19.5	0.0
100	Pi2 BPSK	1	271	18.51	18.64	18.61		
100	Pi2 BPSK	136	0	18.50	18.62	18.56	19.5	0.0
100	Pi2 BPSK	136	69	18.52	18.64	18.49	19.5	0.0
100	Pi2 BPSK	136	138	18.55	18.56	18.52		
100	Pi2 BPSK	270	0	18.49	18.58	18.53	19.5	0.0
100	QPSK	1	1	18.53	18.71	18.61		
100	QPSK	1	137	18.55	18.63	18.60	19.5	0.0
100	QPSK	1	271	18.58	18.67	18.61		
100	QPSK	136	0	18.64	18.67	18.60		
100	QPSK	136	69	18.56	18.66	18.54	19.5	0.0
100	QPSK	136	138	18.59	18.67	18.53		
100	QPSK	270	0	18.60	18.63	18.62	19.5	0.0
100	16QAM	1	1	18.54	18.56	18.41	19.5	0.0
100	16QAM	1	1	18.51	18.56	18.52	19.5	0.0
100	16QAM	1	1	18.54	18.57	18.44	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.61	18.62	18.63	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.58	18.61	18.66	19.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.60	18.57	18.70	19.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.58	18.57	18.68	19.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.58	18.56	18.56	19.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.57	18.60	18.60	19.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.62	18.60	18.69	19.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.57	18.68	18.64	19.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.66	18.63	18.62	19.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.66	18.58	18.70	19.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	18.53	18.57	18.49		
100	Pi2 BPSK	1	137	18.55	18.61	18.49	19.5	0.0
100	Pi2 BPSK	1	271	18.51	18.64	18.61		
100	Pi2 BPSK	136	0	18.50	18.62	18.56	19.5	0.0
100	Pi2 BPSK	136	69	18.52	18.64	18.49	19.5	0.0
100	Pi2 BPSK	136	138	18.55	18.56	18.52		
100	Pi2 BPSK	270	0	18.49	18.58	18.53	19.5	0.0
100	QPSK	1	1	18.53	18.71	18.61		
100	QPSK	1	137	18.55	18.63	18.60	19.5	0.0
100	QPSK	1	271	18.58	18.67	18.61		
100	QPSK	136	0	18.64	18.67	18.60		
100	QPSK	136	69	18.56	18.66	18.54	19.5	0.0
100	QPSK	136	138	18.59	18.67	18.53		
100	QPSK	270	0	18.60	18.63	18.62	19.5	0.0
100	16QAM	1	1	18.54	18.56	18.41	19.5	0.0
100	16QAM	1	1	18.51	18.56	18.52	19.5	0.0
100	16QAM	1	1	18.54	18.57	18.44	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.61	18.62	18.63	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.58	18.61	18.66	19.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.60	18.57	18.70	19.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.58	18.57	18.68	19.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.58	18.56	18.56	19.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.57	18.60	18.70	19.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.62	18.60	18.69	19.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.57	18.68	18.64	19.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.66	18.63	18.62	19.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.66	18.58	18.70	19.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq	Middle Ch. Freq	High Ch. Freq		
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	18.53		18.53		
100	Pi2 BPSK	1	137	18.55		18.60	19.5	0.0
100	Pi2 BPSK	1	271	18.51		18.61		
100	Pi2 BPSK	136	0	18.50		18.51	19.5	0.0
100	Pi2 BPSK	136	69	18.52		18.52	19.5	0.0
100	Pi2 BPSK	136	138	18.55		18.61		
100	Pi2 BPSK	270	0	18.49		18.58	19.5	0.0
100	QPSK	1	1	18.53		18.62		
100	QPSK	1	137	18.55		18.59	19.5	0.0
100	QPSK	1	271	18.58		18.68		
100	QPSK	136	0	18.64		18.67		
100	QPSK	136	69	18.56		18.56	19.5	0.0
100	QPSK	136	138	18.59		18.54		
100	QPSK	270	0	18.54		18.54	19.5	0.0
100	16QAM	1	1	18.47		18.47	19.5	0.0
100	16QAM	1	1	18.56		18.56	19.5	0.0
100	16QAM	1	1	18.50		18.50	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.48		18.48	19.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.51		18.48	19.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.50		18.48	19.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.47		18.60	19.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.48		18.61	19.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.50		18.50	19.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.51		18.56	19.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.51		18.52	19.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.50		18.58	19.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	18.53		18.47	19.5	0.0



Par27Q n77_Ant 4_HPUE										
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	18.53	18.53	18.53				
100	PI2 BPSK	1	137	18.60	18.60	18.60	19.5	0.0		
100	PI2 BPSK	1	271	18.51	18.51	18.51				
100	PI2 BPSK	135	0	18.51	18.51	18.51	19.5	0.0		
100	PI2 BPSK	135	69	18.59	18.59	18.59				
100	PI2 BPSK	135	138	18.61	18.61	18.61	19.5	0.0		
100	PI2 BPSK	270	0	18.49	18.49	18.49				
100	QPSK	1	1	18.62	18.62	18.62				
100	QPSK	1	137	18.59	18.59	18.59	19.5	0.0		
100	QPSK	1	271	18.48	18.48	18.48				
100	QPSK	135	0	18.47	18.47	18.47				
100	QPSK	135	69	18.56	18.56	18.56	19.5	0.0		
100	QPSK	135	138	18.54	18.54	18.54	19.5	0.0		
100	QPSK	270	0	18.54	18.54	18.54				
100	16QAM	1	1	18.47	18.47	18.47	19.5	0.0		
100	64QAM	1	1	18.56	18.56	18.56	19.5	0.0		
100	256QAM	1	1	18.60	18.60	18.60	19.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	18.48	18.53	18.48	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.51	18.48	18.57	19.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.50	18.48	18.59	19.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.47	18.60	18.47	19.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.45	18.50	18.61	19.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.51	18.56	18.57	19.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.51	18.56	18.57	19.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.51	18.56	18.57	19.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.50	18.49	18.58	19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.53	18.55	18.47	19.5	0.0		

Par270 n77_Ant 7										
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	22.82	23.09	23.01				
100	PI2 BPSK	1	137	22.99	23.07	22.93	24.0	0.0		
100	PI2 BPSK	1	271	22.92	23.03	22.61				
100	PI2 BPSK	135	0	22.82	22.98	22.88	24.0	0.0		
100	PI2 BPSK	135	69	23.05	23.07	23.00	24.0	0.0		
100	PI2 BPSK	135	138	22.79	22.89	22.81				
100	PI2 BPSK	270	0	22.72	22.98	22.85	24.0	0.0		
100	QPSK	1	1	23.02	23.16	22.95				
100	QPSK	1	137	22.92	23.09	22.93	24.0	0.0		
100	QPSK	1	271	22.91	23.02	22.83				
100	QPSK	135	0	22.90	22.97	22.80				
100	QPSK	135	69	23.05	23.15	22.94	24.0	0.0		
100	QPSK	135	138	22.84	22.89	22.67				
100	QPSK	270	0	22.86	23.02	22.76	24.0	0.0		
100	16QAM	1	1	22.82	23.08	22.82	24.0	0.0		
100	64QAM	1	1	22.97	22.49	22.31	23.5	0.5		
100	256QAM	1	1	20.41	20.49	20.36	21.5	2.5		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.85	23.11	22.77	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.86	23.01	22.79	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.94	23.04	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.00	23.11	22.93	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.90	22.96	22.76	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.89	23.00	22.84	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.87	23.07	22.93	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.87	23.08	22.92	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.85	23.01	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.93	22.97	22.83	24.0	0.0		

Par270 n77_Ant 7_HPUE										
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	22.82	23.09	23.01				
100	PI2 BPSK	1	137	22.99	23.07	22.93	24.0	0.0		
100	PI2 BPSK	1	271	22.92	23.03	22.61				
100	PI2 BPSK	135	0	22.82	22.98	22.88	24.0	0.0		
100	PI2 BPSK	135	69	23.05	23.07	23.00	24.0	0.0		
100	PI2 BPSK	135	138	22.79	22.89	22.81				
100	PI2 BPSK	270	0	22.72	22.98	22.85	24.0	0.0		
100	QPSK	1	1	23.02	23.16	22.95				
100	QPSK	1	137	22.92	23.09	22.93	24.0	0.0		
100	QPSK	1	271	22.91	23.02	22.83				
100	QPSK	135	0	22.90	22.97	22.80				
100	QPSK	135	69	23.05	23.15	22.94	24.0	0.0		
100	QPSK	135	138	22.84	22.89	22.67				
100	QPSK	270	0	22.86	23.02	22.76	24.0	0.0		
100	16QAM	1	1	22.82	23.08	22.82	24.0	0.0		
100	64QAM	1	1	22.97	22.49	22.31	23.0	1.0		
100	256QAM	1	1	20.41	20.49	20.36	21.0	3.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.85	23.11	22.77	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	22.86	23.01	22.79	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	22.94	23.04	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	23.00	23.11	22.93	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	22.90	22.96	22.76	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	22.89	23.00	22.84	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	22.87	23.07	22.93	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	22.87	23.08	22.92	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	22.85	23.01	22.78	24.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.93	22.97	22.83	24.0	0.0		



Par27Q n77_Ant 7

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	22.72	22.72	22.72		
100	PI2 BPSK	1	137	23.06	23.06	23.06	24.0	0.0
100	PI2 BPSK	1	271	23.04	23.04	23.04		
100	PI2 BPSK	135	0	22.64	22.64	22.64	24.0	0.0
100	PI2 BPSK	135	69	22.83	22.83	22.83	24.0	0.0
100	PI2 BPSK	135	138	23.05	23.05	23.05	24.0	0.0
100	PI2 BPSK	270	0	22.91	22.91	22.91		
100	QPSK	1	1	23.12	23.12	23.12		
100	QPSK	1	137	22.89	22.89	22.89	24.0	0.0
100	QPSK	1	271	22.70	22.70	22.70		
100	QPSK	135	0	22.70	22.70	22.70	24.0	0.0
100	QPSK	135	69	22.86	22.86	22.86		
100	QPSK	135	138	22.76	22.76	22.76	24.0	0.0
100	QPSK	270	0	22.81	22.81	22.81	24.0	0.0
100	16QAM	1	1	22.82	22.82	22.82	24.0	0.0
100	64QAM	1	1	22.75	22.75	22.75	23.5	0.5
100	256QAM	1	1	20.85	20.85	20.85	21.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.09	23.09	23.09	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.06	23.07	23.10	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.11	23.11	23.10	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.07	23.11	23.06	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.08	23.05	23.08	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.11	23.10	23.07	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.05	23.06	23.08	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.09	23.10	23.11	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.11	23.11	23.07	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.06	23.07	23.07	24.0	0.0

Par27Q n77_Ant 7_HPUE

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	22.72	22.72	22.72		
100	PI2 BPSK	1	137	23.06	23.06	23.06	24.0	0.0
100	PI2 BPSK	1	271	23.04	23.04	23.04		
100	PI2 BPSK	135	0	22.64	22.64	22.64	24.0	0.0
100	PI2 BPSK	135	69	22.83	22.83	22.83	24.0	0.0
100	PI2 BPSK	135	138	23.05	23.05	23.05	24.0	0.0
100	PI2 BPSK	270	0	22.91	22.91	22.91		
100	QPSK	1	1	23.12	23.12	23.12		
100	QPSK	1	137	22.89	22.89	22.89	24.0	0.0
100	QPSK	1	271	22.70	22.70	22.70		
100	QPSK	135	0	22.70	22.70	22.70	24.0	0.0
100	QPSK	135	69	22.86	22.86	22.86		
100	QPSK	135	138	22.76	22.76	22.76	24.0	0.0
100	QPSK	270	0	22.81	22.81	22.81	24.0	0.0
100	16QAM	1	1	22.82	22.82	22.82	24.0	0.0
100	64QAM	1	1	22.75	22.75	22.75	23.0	1.0
100	256QAM	1	1	20.85	20.85	20.85	21.0	3.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.09	23.09	23.09	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.06	23.07	23.10	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	23.11	23.11	23.10	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.07	23.11	23.06	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.08	23.05	23.08	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	23.11	23.10	23.07	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.05	23.06	23.08	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.09	23.10	23.11	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	23.11	23.11	23.07	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.06	23.07	23.07	24.0	0.0

Par27Q n77_Ant 8

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	37.20	37.40	37.00		
100	PI2 BPSK	1	137	19.49	19.49	19.32	21.0	0.0
100	PI2 BPSK	1	271	19.52	19.45	19.32		
100	PI2 BPSK	135	0	19.48	19.47	19.42	21.0	0.0
100	PI2 BPSK	135	69	19.49	19.53	19.52	21.0	0.0
100	PI2 BPSK	135	138	19.44	19.55	19.46	21.0	0.0
100	PI2 BPSK	270	0	19.43	19.44	19.39		
100	QPSK	1	1	19.23	19.28	19.27		
100	QPSK	1	137	19.45	19.50	19.42	21.0	0.0
100	QPSK	1	271	19.42	19.50	19.38		
100	QPSK	135	0	19.40	19.52	19.43	21.0	0.0
100	QPSK	135	69	19.49	19.57	19.44		
100	QPSK	135	138	19.42	19.44	19.40	21.0	0.0
100	QPSK	270	0	19.48	19.49	19.35	21.0	0.0
100	16QAM	1	1	19.43	19.51	19.43	21.0	0.0
100	64QAM	1	1	18.99	19.02	19.00	20.5	0.5
100	256QAM	1	1	18.82	18.90	18.80	18.5	2.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.42	19.46	19.37	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.50	19.56	19.32	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.40	19.50	19.44	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.52	19.51	19.34	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.41	19.57	19.45	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.41	19.47	19.38	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.44	19.43	19.32	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.48	19.45	19.38	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.40	19.43	19.37	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.43	19.47	19.33	21.0	0.0



Par270 n77_Ant 8_HPUE										
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	21.41	21.44	21.43				
100	PI2 BPSK	1	137	21.18	21.29	21.28	23.0	0.0		
100	PI2 BPSK	1	271	21.38	21.42	21.41				
100	PI2 BPSK	135	0	20.57	20.72	20.70	22.5	0.5		
100	PI2 BPSK	135	69	21.33	21.34	21.21	23.0	0.0		
100	PI2 BPSK	135	138	20.79	20.83	20.70	22.5	0.5		
100	PI2 BPSK	270	0	20.58	20.72	20.71				
100	QPSK	1	1	21.41	21.34	21.52				
100	QPSK	1	137	21.36	21.43	21.31	23.0	0.0		
100	QPSK	1	271	21.14	21.23	21.11				
100	QPSK	135	0	20.35	20.39	20.37				
100	QPSK	135	69	21.36	21.48	21.42	23.0	0.0		
100	QPSK	135	138	20.44	20.45	20.36				
100	QPSK	270	0	20.28	20.43	20.39	22.0	1.0		
100	16QAM	1	1	20.37	20.49	20.37	22.0	1.0		
100	64QAM	1	1	18.96	18.92	18.91	20.5	2.5		
100	256QAM	1	1	18.88	18.90	18.75	18.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	21.11	21.35	21.41	23.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	21.05	21.34	21.38	23.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	21.16	21.29	21.39	23.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	21.08	21.38	21.40	23.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	21.12	21.35	21.35	23.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	21.05	21.29	21.30	23.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	21.10	21.32	21.34	23.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.08	21.32	21.37	23.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	21.14	21.33	21.34	23.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	21.11	21.34	21.34	23.0	0.0		

Par270 n77_Ant 8										
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	18.84						
100	PI2 BPSK	1	137	18.87			20.5	0.0		
100	PI2 BPSK	1	271	18.93						
100	PI2 BPSK	135	0	18.90			20.5	0.0		
100	PI2 BPSK	135	69	18.83			20.5	0.0		
100	PI2 BPSK	135	138	18.80			20.5	0.0		
100	PI2 BPSK	270	0	18.85						
100	QPSK	1	1	18.85						
100	QPSK	1	137	18.83			20.5	0.0		
100	QPSK	1	271	18.83						
100	QPSK	135	0	18.87						
100	QPSK	135	69	18.91			20.5	0.0		
100	QPSK	135	138	18.89			20.5	0.0		
100	QPSK	270	0	18.80			20.5	0.0		
100	16QAM	1	1	18.84			20.5	0.0		
100	64QAM	1	1	18.45			20.0	0.5		
100	256QAM	1	1	18.38			18.0	2.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	18.85	18.83	18.82	20.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.85	18.89	18.81	20.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.86	18.85	18.77	20.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.86	18.87	18.78	20.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.81	18.83	18.86	20.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.84	18.83	18.85	20.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.83	18.88	18.87	20.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.88	18.89	18.79	20.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.86	18.81	18.88	20.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.80	18.85	18.80	20.5	0.0		

Par270 n77_Ant 8_HPUE										
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	20.89						
100	PI2 BPSK	1	137	20.85			22.5	0.0		
100	PI2 BPSK	1	271	20.93						
100	PI2 BPSK	135	0	20.35			22.0	0.5		
100	PI2 BPSK	135	69	20.86			22.5	0.0		
100	PI2 BPSK	135	138	20.40			22.0	0.5		
100	PI2 BPSK	270	0	20.32						
100	QPSK	1	1	20.89						
100	QPSK	1	137	20.82			22.5	0.0		
100	QPSK	1	271	20.90						
100	QPSK	135	0	19.78						
100	QPSK	135	69	20.82			22.5	0.0		
100	QPSK	135	138	19.80						
100	QPSK	270	0	19.76			21.5	1.0		
100	16QAM	1	1	19.99			21.5	1.0		
100	64QAM	1	1	18.45			20.0	2.5		
100	256QAM	1	1	18.38			18.0	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	20.81	20.88	20.98	22.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	20.83	20.88	20.87	22.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	20.86	20.93	20.89	22.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	20.92	20.97	20.96	22.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	20.89	20.89	20.93	22.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	20.93	20.92	20.93	22.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	20.89	20.92	20.87	22.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	20.86	20.94	20.90	22.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.91	20.87	20.89	22.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.84	20.89	20.87	22.5	0.0		



Par270 n77_Ant 10									
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	16.04	16.11	16.08			
100	PI2 BPSK	1	137	16.12	16.06	16.05	17.5	0.0	
100	PI2 BPSK	1	271	16.04	16.04	16.02			
100	PI2 BPSK	135	0	16.10	16.12	16.01	17.5	0.0	
100	PI2 BPSK	135	69	16.11	16.17	16.07	17.5	0.0	
100	PI2 BPSK	135	138	16.03	16.03	15.99			
100	PI2 BPSK	270	0	16.14	16.16	16.07	17.5	0.0	
100	QPSK	1	1	16.15	16.18	16.13			
100	QPSK	1	137	16.05	16.15	16.05	17.5	0.0	
100	QPSK	1	271	16.14	16.11	16.11			
100	QPSK	135	0	16.02	16.15	16.03			
100	QPSK	135	69	16.12	16.17	16.14	17.5	0.0	
100	QPSK	135	138	16.04	16.10	16.11			
100	QPSK	270	0	16.05	16.07	16.02	17.5	0.0	
100	16QAM	1	1	16.10	16.04	16.12	17.5	0.0	
100	64QAM	1	1	16.04	16.12	16.02	17.5	0.0	
100	256QAM	1	1	16.02	16.16	16.12	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.11	16.05	16.07	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.06	16.15	16.12	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.10	16.06	16.05	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.10	16.16	16.08	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.11	16.14	16.04	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.14	16.00	16.08	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.08	16.17	16.14	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.07	16.10	16.13	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.04	16.14	16.05	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.06	16.07	16.16	17.5	0.0	

Par270 n77_Ant_10_HPUE									
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	16.04	16.11	16.08			
100	PI2 BPSK	1	137	16.12	16.06	16.05	17.5	0.0	
100	PI2 BPSK	1	271	16.04	16.04	16.02			
100	PI2 BPSK	135	0	16.10	16.12	16.01	17.5	0.0	
100	PI2 BPSK	135	69	16.11	16.17	16.07	17.5	0.0	
100	PI2 BPSK	135	138	16.03	16.03	15.99			
100	PI2 BPSK	270	0	16.14	16.16	16.07	17.5	0.0	
100	QPSK	1	1	16.15	16.18	16.13			
100	QPSK	1	137	16.05	16.15	16.05	17.5	0.0	
100	QPSK	1	271	16.14	16.11	16.11			
100	QPSK	135	0	16.02	16.15	16.03			
100	QPSK	135	69	16.12	16.17	16.14	17.5	0.0	
100	QPSK	135	138	16.04	16.10	16.11			
100	QPSK	270	0	16.05	16.07	16.02	17.5	0.0	
100	16QAM	1	1	16.10	16.04	16.12	17.5	0.0	
100	64QAM	1	1	16.04	16.12	16.02	17.5	0.0	
100	256QAM	1	1	16.02	16.16	16.12	17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.11	16.05	16.07	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.06	16.15	16.12	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.10	16.06	16.05	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.10	16.16	16.08	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.11	16.14	16.04	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.14	16.00	16.08	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.08	16.17	16.14	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.07	16.10	16.13	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.04	16.14	16.05	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.06	16.07	16.16	17.5	0.0	

Par270 n77_Ant 10									
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	16.05	16.05	16.05			
100	PI2 BPSK	1	137	16.05	16.06	16.05	17.5	0.0	
100	PI2 BPSK	1	271	16.06	16.06	16.06			
100	PI2 BPSK	135	0	16.05	16.05	16.05	17.5	0.0	
100	PI2 BPSK	135	69	16.06	16.06	16.06	17.5	0.0	
100	PI2 BPSK	135	138	16.04	16.04	16.04			
100	PI2 BPSK	270	0	16.03	16.03	16.03	17.5	0.0	
100	QPSK	1	1	16.15	16.15	16.15			
100	QPSK	1	137	16.05	16.15	16.05	17.5	0.0	
100	QPSK	1	271	16.14	16.14	16.14			
100	QPSK	135	0	16.08	16.08	16.08			
100	QPSK	135	69	16.12	16.12	16.12	17.5	0.0	
100	QPSK	135	138	16.08	16.08	16.08			
100	QPSK	270	0	16.04	16.04	16.04	17.5	0.0	
100	16QAM	1	1	16.14	16.14	16.14	17.5	0.0	
100	64QAM	1	1	16.02	16.02	16.02	17.5	0.0	
100	256QAM	1	1	16.11	16.11	16.11	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.14	16.02	16.05	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.01	16.07	16.05	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.13	16.08	16.02	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.14	16.09	16.13	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.05	16.07	16.07	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.01	16.04	16.09	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.07	16.01	16.03	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.06	16.12	16.11	17.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.12	16.06	16.03	17.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	16.04	16.02	16.01	17.5	0.0	



Par27Q n77_Ant 10_HPUE										
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	16.05	16.05	16.05	17.5	0.0		
100	PI2 BPSK	1	137	16.05	16.05	16.05	17.5	0.0		
100	PI2 BPSK	1	271	16.05	16.05	16.05	17.5	0.0		
100	PI2 BPSK	135	0	16.05	16.05	16.05	17.5	0.0		
100	PI2 BPSK	135	69	16.05	16.05	16.05	17.5	0.0		
100	PI2 BPSK	135	138	16.14	16.14	16.14	17.5	0.0		
100	PI2 BPSK	270	0	16.03	16.03	16.03	17.5	0.0		
100	QPSK	1	1	16.15	16.15	16.15	17.5	0.0		
100	QPSK	1	137	16.08	16.08	16.08	17.5	0.0		
100	QPSK	1	271	16.14	16.14	16.14	17.5	0.0		
100	QPSK	135	0	16.08	16.08	16.08	17.5	0.0		
100	QPSK	135	69	16.12	16.12	16.12	17.5	0.0		
100	QPSK	135	138	16.08	16.08	16.08	17.5	0.0		
100	QPSK	270	0	16.04	16.04	16.04	17.5	0.0		
100	16QAM	1	1	16.14	16.14	16.14	17.5	0.0		
100	64QAM	1	1	16.02	16.02	16.02	17.5	0.0		
100	256QAM	1	1	16.11	16.11	16.11	17.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	16.14	16.02	16.05	17.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.02	16.02	16.02	17.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	16.13	16.08	16.02	17.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.14	16.09	16.13	17.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	16.05	16.07	16.07	17.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.07	16.01	16.03	17.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	16.07	16.01	16.03	17.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.06	16.12	16.11	17.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	16.12	16.06	16.03	17.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	16.04	16.02	16.01	17.5	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)										
100	PI2 BPSK	1	1	18.44	18.44	18.44	19.5	0.0		
100	PI2 BPSK	1	137	18.45	18.45	18.45	19.5	0.0		
100	PI2 BPSK	1	271	18.38	18.38	18.38	19.5	0.0		
100	PI2 BPSK	135	0	18.38	18.38	18.38	19.5	0.0		
100	PI2 BPSK	135	69	18.42	18.42	18.42	19.5	0.0		
100	PI2 BPSK	135	138	18.49	18.49	18.49	19.5	0.0		
100	PI2 BPSK	270	0	18.44	18.44	18.44	19.5	0.0		
100	QPSK	1	1	18.52	18.52	18.52	19.5	0.0		
100	QPSK	1	137	18.39	18.39	18.39	19.5	0.0		
100	QPSK	1	271	18.40	18.40	18.40	19.5	0.0		
100	QPSK	135	0	18.49	18.49	18.49	19.5	0.0		
100	QPSK	135	69	18.50	18.50	18.50	19.5	0.0		
100	QPSK	135	138	18.37	18.37	18.37	19.5	0.0		
100	QPSK	270	0	18.48	18.48	18.48	19.5	0.0		
100	16QAM	1	1	18.40	18.40	18.40	19.5	0.0		
100	64QAM	1	1	18.48	18.48	18.48	19.5	0.0		
100	256QAM	1	1	18.45	18.45	18.45	19.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	18.37	18.43	18.42	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.36	18.39	18.37	19.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.44	18.39	18.41	19.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.51	18.48	18.44	19.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.51	18.40	18.42	19.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.40	18.37	18.50	19.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.48	18.47	18.37	19.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.51	18.45	18.47	19.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.49	18.42	18.44	19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.37	18.42	18.50	19.5	0.0		

Par27Q n78_Ant 4_HPUE										
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	18.44	18.44	18.44	19.5	0.0		
100	PI2 BPSK	1	137	18.45	18.45	18.45	19.5	0.0		
100	PI2 BPSK	1	271	18.38	18.38	18.38	19.5	0.0		
100	PI2 BPSK	135	0	18.38	18.38	18.38	19.5	0.0		
100	PI2 BPSK	135	69	18.42	18.42	18.42	19.5	0.0		
100	PI2 BPSK	135	138	18.49	18.49	18.49	19.5	0.0		
100	PI2 BPSK	270	0	18.44	18.44	18.44	19.5	0.0		
100	QPSK	1	1	18.52	18.52	18.52	19.5	0.0		
100	QPSK	1	137	18.39	18.39	18.39	19.5	0.0		
100	QPSK	1	271	18.40	18.40	18.40	19.5	0.0		
100	QPSK	135	0	18.49	18.49	18.49	19.5	0.0		
100	QPSK	135	69	18.50	18.50	18.50	19.5	0.0		
100	QPSK	135	138	18.37	18.37	18.37	19.5	0.0		
100	QPSK	270	0	18.48	18.48	18.48	19.5	0.0		
100	16QAM	1	1	18.40	18.40	18.40	19.5	0.0		
100	64QAM	1	1	18.48	18.48	18.48	19.5	0.0		
100	256QAM	1	1	18.45	18.45	18.45	19.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	18.37	18.43	18.42	19.5	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.36	18.39	18.37	19.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.44	18.39	18.41	19.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.51	18.48	18.44	19.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.51	18.40	18.42	19.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.40	18.37	18.50	19.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.48	18.47	18.37	19.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.51	18.45	18.47	19.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.49	18.42	18.44	19.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	18.37	18.42	18.50	19.5	0.0		



Part27Q 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)									
100	PI2 BPSK	1	1	18.42	18.41	18.42			
100	PI2 BPSK	1	137	18.41	18.41	18.41	19.5	0.0	
100	PI2 BPSK	1	271	18.44	18.44	18.44			
100	PI2 BPSK	135	0	18.38	18.38	18.38	19.5	0.0	
100	PI2 BPSK	135	69	18.42	18.42	18.42	19.5	0.0	
100	PI2 BPSK	135	138	18.40	18.40	18.40	19.5	0.0	
100	PI2 BPSK	270	0	18.33	18.33	18.33			
100	QPSK	1	1	18.47	18.47	18.47			
100	QPSK	1	137	18.43	18.43	18.43	19.5	0.0	
100	QPSK	1	271	18.37	18.37	18.37			
100	QPSK	135	0	18.35	18.35	18.35			
100	QPSK	135	69	18.45	18.45	18.45	19.5	0.0	
100	QPSK	135	138	18.38	18.38	18.38	19.5	0.0	
100	QPSK	270	0	18.38	18.38	18.38			
100	16QAM	1	1	18.46	18.46	18.46	19.5	0.0	
100	16QAM	1	1	18.40	18.40	18.40	19.5	0.0	
100	256QAM	1	1	18.39	18.39	18.39	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.38	18.38	18.42	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.32	18.46	18.34	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.41	18.43	18.37	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.45	18.46	18.32	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.45	18.44	18.39	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.44	18.35	18.39	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.41	18.44	18.39	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.34	18.45	18.39	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.46	18.39	18.46	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.40	18.39	18.42	19.5	0.0	

Part27Q n78_Ant 4_HPUE									
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	18.42	18.41	18.42			
100	PI2 BPSK	1	137	18.41	18.41	18.41	19.5	0.0	
100	PI2 BPSK	1	271	18.44	18.44	18.44			
100	PI2 BPSK	135	0	18.38	18.38	18.38	19.5	0.0	
100	PI2 BPSK	135	69	18.42	18.42	18.42	19.5	0.0	
100	PI2 BPSK	135	138	18.40	18.40	18.40	19.5	0.0	
100	PI2 BPSK	270	0	18.33	18.33	18.33			
100	QPSK	1	1	18.47	18.47	18.47			
100	QPSK	1	137	18.43	18.43	18.43	19.5	0.0	
100	QPSK	1	271	18.37	18.37	18.37			
100	QPSK	135	0	18.35	18.35	18.35			
100	QPSK	135	69	18.45	18.45	18.45	19.5	0.0	
100	QPSK	135	138	18.38	18.38	18.38	19.5	0.0	
100	QPSK	270	0	18.38	18.38	18.38			
100	16QAM	1	1	18.46	18.46	18.46	19.5	0.0	
100	16QAM	1	1	18.40	18.40	18.40	19.5	0.0	
100	256QAM	1	1	18.39	18.39	18.39	19.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.38	18.38	18.42	19.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.32	18.46	18.34	19.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.41	18.43	18.37	19.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.45	18.46	18.32	19.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.45	18.44	18.39	19.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.44	18.35	18.39	19.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.41	18.44	18.39	19.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.34	18.45	18.39	19.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	18.46	18.39	18.46	19.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	18.40	18.39	18.42	19.5	0.0	



Par270 n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.00	23.00	23.00	0.0
100	PI2 BPSK	1	137	22.92	22.92	22.92	24.0
100	PI2 BPSK	1	271	22.91	22.91	22.91	0.0
100	PI2 BPSK	135	0	22.93	22.93	22.93	24.0
100	PI2 BPSK	135	69	22.98	22.98	22.98	24.0
100	PI2 BPSK	135	138	22.87	22.87	22.87	24.0
100	PI2 BPSK	270	0	22.91	22.91	22.91	0.0
100	QPSK	1	1	23.05	23.05	23.05	0.0
100	QPSK	1	137	23.04	23.04	23.04	24.0
100	QPSK	1	271	23.03	23.03	23.03	0.0
100	QPSK	135	0	23.02	23.02	23.02	24.0
100	QPSK	135	69	23.04	23.04	23.04	24.0
100	QPSK	135	138	22.98	22.98	22.98	24.0
100	QPSK	270	0	22.95	22.95	22.95	0.0
100	16QAM	1	1	22.31	22.31	22.31	24.0
100	64QAM	1	1	22.96	22.96	22.96	23.0
100	256QAM	1	1	20.58	20.58	20.58	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	22.85	22.85	22.85	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.82	22.82	22.82	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.93	22.80	22.93	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.90	22.88	22.94	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.95	22.81	22.94	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.95	22.83	22.93	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.95	22.81	22.92	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.95	22.84	22.85	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.88	22.88	22.88	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.80	22.80	22.80	24.0

Par270 n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.00	23.00	23.00	0.0
100	PI2 BPSK	1	137	22.92	22.92	22.92	24.0
100	PI2 BPSK	1	271	22.91	22.91	22.91	0.0
100	PI2 BPSK	135	0	22.93	22.93	22.93	24.0
100	PI2 BPSK	135	69	22.98	22.98	22.98	24.0
100	PI2 BPSK	135	138	22.87	22.87	22.87	24.0
100	PI2 BPSK	270	0	22.91	22.91	22.91	0.0
100	QPSK	1	1	23.05	23.05	23.05	0.0
100	QPSK	1	137	23.04	23.04	23.04	24.0
100	QPSK	1	271	23.03	23.03	23.03	0.0
100	QPSK	135	0	23.02	23.02	23.02	24.0
100	QPSK	135	69	23.04	23.04	23.04	24.0
100	QPSK	135	138	22.98	22.98	22.98	24.0
100	QPSK	270	0	22.95	22.95	22.95	0.0
100	16QAM	1	1	22.31	22.31	22.31	24.0
100	64QAM	1	1	22.96	22.96	22.96	23.0
100	256QAM	1	1	20.58	20.58	20.58	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	22.85	22.85	22.85	24.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	22.82	22.80	22.84	24.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	22.93	22.80	22.93	24.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	22.90	22.88	22.94	24.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	22.95	22.81	22.94	24.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.95	22.83	22.93	24.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	22.95	22.81	22.92	24.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	22.95	22.84	22.85	24.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	22.88	22.88	22.88	24.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.80	22.80	22.80	24.0



Part27Q n78_Ant 7							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				3499.98			
100	PI2 BPSK	1	1	23.10			
100	PI2 BPSK	1	137	23.12		24.0	0.0
100	PI2 BPSK	1	271	23.10			
100	PI2 BPSK	155	0	23.17		24.0	0.0
100	PI2 BPSK	155	69	23.13		24.0	0.0
100	PI2 BPSK	155	138	23.16		24.0	0.0
100	PI2 BPSK	270	0	23.15			
100	QPSK	1	1	23.18			
100	QPSK	1	137	23.12		24.0	0.0
100	QPSK	1	271	23.16			
100	QPSK	155	0	23.09			
100	QPSK	155	69	23.12		24.0	0.0
100	QPSK	155	138	22.50			
100	QPSK	270	0	23.14		24.0	0.0
100	16QAM	1	1	23.12		24.0	0.0
100	64QAM	1	1	22.98		23.0	0.0
100	256QAM	1	1	21.11		23.5	2.5
Channel							
Frequency (MHz)				3499.98	6399.96	3004.99	MPR (dB)
90	QPSK	1	1	23.12	23.13	23.13	24.0
Channel							
Frequency (MHz)				3499.98	6399.96	3510	MPR (dB)
80	QPSK	1	1	23.12	23.08	23.09	24.0
Channel							
Frequency (MHz)				3499.98	6399.96	3014.98	MPR (dB)
70	QPSK	1	1	23.15	23.13	23.12	24.0
Channel							
Frequency (MHz)				632000	633332	634666	MPR (dB)
60	QPSK	1	1	23.14	23.12	23.09	24.0
Channel							
Frequency (MHz)				631698	633332	635000	MPR (dB)
50	QPSK	1	1	23.11	23.10	23.13	24.0
Channel							
Frequency (MHz)				631334	633332	635332	MPR (dB)
40	QPSK	1	1	23.10	23.09	23.09	24.0
Channel							
Frequency (MHz)				3499.98	6399.96	3534.99	MPR (dB)
30	QPSK	1	1	23.13	23.09	23.14	24.0
Channel							
Frequency (MHz)				3499.98	6399.96	3540	MPR (dB)
20	QPSK	1	1	23.14	23.05	23.05	24.0
Channel							
Frequency (MHz)				630500	633332	636166	MPR (dB)
15	QPSK	1	1	23.12	23.12	23.13	24.0
Channel							
Frequency (MHz)				630334	633332	636332	MPR (dB)
10	QPSK	1	1	23.10	23.07	23.08	24.0

Part27Q n78_Ant 7_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)				3499.98			
100	PI2 BPSK	1	1	23.10			
100	PI2 BPSK	1	137	23.12		24.0	0.0
100	PI2 BPSK	1	271	23.10			
100	PI2 BPSK	155	0	23.17		24.0	0.0
100	PI2 BPSK	155	69	23.13		24.0	0.0
100	PI2 BPSK	155	138	23.16		24.0	0.0
100	PI2 BPSK	270	0	23.15			
100	QPSK	1	1	23.18			
100	QPSK	1	137	23.12		24.0	0.0
100	QPSK	1	271	23.16			
100	QPSK	155	0	23.09			
100	QPSK	155	69	23.12		24.0	0.0
100	QPSK	155	138	22.50			
100	QPSK	270	0	23.14		24.0	0.0
100	16QAM	1	1	23.12		24.0	0.0
100	64QAM	1	1	22.98		23.0	0.0
100	256QAM	1	1	21.11		23.0	3.0
Channel							
Frequency (MHz)				3499.98	6399.96	3004.99	MPR (dB)
90	QPSK	1	1	23.12	23.13	23.13	24.0
Channel							
Frequency (MHz)				3499.98	6399.96	3510	MPR (dB)
80	QPSK	1	1	23.12	23.08	23.09	24.0
Channel							
Frequency (MHz)				3499.98	6399.96	3014.98	MPR (dB)
70	QPSK	1	1	23.15	23.13	23.12	24.0
Channel							
Frequency (MHz)				632000	633332	634666	MPR (dB)
60	QPSK	1	1	23.14	23.12	23.09	24.0
Channel							
Frequency (MHz)				631698	633332	635000	MPR (dB)
50	QPSK	1	1	23.11	23.10	23.13	24.0
Channel							
Frequency (MHz)				631334	633332	635332	MPR (dB)
40	QPSK	1	1	23.10	23.09	23.09	24.0
Channel							
Frequency (MHz)				3499.98	6399.96	3534.99	MPR (dB)
30	QPSK	1	1	23.13	23.09	23.14	24.0
Channel							
Frequency (MHz)				3499.98	6399.96	3540	MPR (dB)
20	QPSK	1	1	23.14	23.05	23.05	24.0
Channel							
Frequency (MHz)				630500	633332	636166	MPR (dB)
15	QPSK	1	1	23.12	23.12	23.13	24.0
Channel							
Frequency (MHz)				630334	633332	636332	MPR (dB)
10	QPSK	1	1	23.10	23.07	23.08	24.0



Par270 n78_Ant 8								
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	19.57	3795			
100	PI2 BPSK	1	137	19.57	3795	21.0	21.0	0.0
100	PI2 BPSK	1	271	19.54				
100	PI2 BPSK	135	0	19.56	3795	21.0	21.0	0.0
100	PI2 BPSK	135	69	19.55				
100	PI2 BPSK	135	138	19.54			21.0	0.0
100	PI2 BPSK	270	0	19.54				
100	QPSK	1	1	19.65				
100	QPSK	1	137	19.57			21.0	0.0
100	QPSK	1	271	19.54				
100	QPSK	135	0	19.60				
100	QPSK	135	69	19.65			21.0	0.0
100	QPSK	135	138	19.61				
100	QPSK	270	0	19.55			21.0	0.0
100	16QAM	1	1	19.62			21.0	0.0
100	64QAM	1	1	18.74			20.9	0.5
100	256QAM	1	1	18.76			18.5	2.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	37.62	3795	3794.98	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	37.60	3795	3795.99	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.58	19.63	19.58	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.56	19.61	19.47	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.57	19.60	19.51	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	37.20	3795	3795	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.55	19.56	19.51	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.58	19.55	19.47	21.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.65	19.57	19.47	21.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	19.62	19.57	19.55	21.0	0.0

Par270 n78_Ant 8_HPUE								
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	21.58	3795			
100	PI2 BPSK	1	137	21.44			23.0	0.0
100	PI2 BPSK	1	271	21.53				
100	PI2 BPSK	135	0	20.70			22.5	0.5
100	PI2 BPSK	135	69	21.33			23.0	0.0
100	PI2 BPSK	135	138	20.82			22.5	0.5
100	PI2 BPSK	270	0	20.78				
100	QPSK	1	1	21.60				
100	QPSK	1	137	21.52			23.0	0.0
100	QPSK	1	271	21.54				
100	QPSK	135	0	20.17				
100	QPSK	135	69	21.29			23.0	0.0
100	QPSK	135	138	20.32				
100	QPSK	270	0	20.23			22.0	1.0
100	16QAM	1	1	20.28			22.0	1.0
100	64QAM	1	1	18.74			20.9	2.5
100	256QAM	1	1	18.76			18.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	21.65	21.50	21.48	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.54	21.49	21.52	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.51	21.49	21.47	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.59	21.51	21.49	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.52	21.46	21.47	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.51	21.51	21.47	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.55	21.48	21.46	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.58	21.48	21.46	23.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	21.55	21.49	21.48	23.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	21.56	21.50	21.45	23.0	0.0



Part27Q n78_Ant 8							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.93	18.93	18.93	0.0
100	PI2 BPSK	1	137	18.97	18.97	18.97	20.0
100	PI2 BPSK	1	271	18.94	18.94	18.94	0.0
100	PI2 BPSK	135	0	18.92	18.92	18.92	20.0
100	PI2 BPSK	135	69	18.99	18.99	18.99	22.0
100	PI2 BPSK	135	138	18.81	18.81	18.81	20.0
100	PI2 BPSK	270	0	18.81	18.81	18.81	0.0
100	QPSK	1	1	18.95	18.95	18.95	0.0
100	QPSK	1	137	18.87	18.87	18.87	20.0
100	QPSK	1	271	18.89	18.89	18.89	0.0
100	QPSK	135	0	18.94	18.94	18.94	0.0
100	QPSK	135	69	18.95	18.95	18.95	20.0
100	QPSK	135	138	18.90	18.90	18.90	0.0
100	QPSK	270	0	18.81	18.81	18.81	20.0
100	16QAM	1	1	18.90	18.90	18.90	2.0
100	64QAM	1	1	18.29	18.29	18.29	0.5
100	256QAM	1	1	18.31	18.31	18.31	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.87	18.87	18.87	20.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.87	18.85	18.85	20.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.81	18.80	18.78	20.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.88	18.79	18.81	20.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.87	18.83	18.80	20.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.90	18.83	18.87	20.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.90	18.91	18.83	20.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.83	18.80	18.81	20.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	18.90	18.83	18.82	20.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	18.86	18.70	18.83	20.0

Part27Q n78_Ant 8_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	20.87	20.87	20.87	0.0
100	PI2 BPSK	1	137	20.86	20.86	20.86	22.0
100	PI2 BPSK	1	271	20.50	20.50	20.50	0.0
100	PI2 BPSK	135	0	20.23	20.23	20.23	21.5
100	PI2 BPSK	135	69	20.80	20.80	20.80	22.0
100	PI2 BPSK	135	138	20.31	20.31	20.31	21.5
100	PI2 BPSK	270	0	20.28	20.28	20.28	0.0
100	QPSK	1	1	20.91	20.91	20.91	0.0
100	QPSK	1	137	20.79	20.79	20.79	22.0
100	QPSK	1	271	20.53	20.53	20.53	0.0
100	QPSK	135	0	19.74	19.74	19.74	21.0
100	QPSK	135	69	20.69	20.69	20.69	22.0
100	QPSK	135	138	18.90	18.90	18.90	2.0
100	QPSK	270	0	18.69	18.69	18.69	1.0
100	16QAM	1	1	19.90	19.90	19.90	2.0
100	64QAM	1	1	18.29	18.29	18.29	0.5
100	256QAM	1	1	18.31	18.31	18.31	2.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.87	20.86	20.83	22.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.80	20.84	20.80	22.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.86	20.81	20.83	22.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.87	20.84	20.88	22.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.83	20.84	20.88	22.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.82	20.77	20.86	22.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.83	20.79	20.85	22.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.87	20.83	20.84	22.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.85	20.86	20.87	22.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.70	20.70	20.84	22.0



Par270 n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	16.07	3750		
100	PI2 BPSK	1	137	16.03		17.5	0.0
100	PI2 BPSK	1	271	16.10			
100	PI2 BPSK	135	0	16.08		17.5	0.0
100	PI2 BPSK	135	69	16.02		17.5	0.0
100	PI2 BPSK	135	138	16.05		17.5	0.0
100	PI2 BPSK	270	0	16.08			
100	QPSK	1	1	16.13			
100	QPSK	1	137	16.00		17.5	0.0
100	QPSK	1	271	16.12			
100	QPSK	135	0	16.02			
100	QPSK	135	69	16.11		17.5	0.0
100	QPSK	135	138	16.07		17.5	0.0
100	QPSK	270	0	15.98		17.5	0.0
100	16QAM	1	1	16.10		17.5	0.0
100	64QAM	1	1	16.01		17.5	0.0
100	256QAM	1	1	16.12		17.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	16.00	16.00	16.08	17.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	16.01	16.11	16.01	17.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	16.09	16.04	16.01	17.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	16.11	16.03	16.01	17.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	16.04	16.00	15.98	17.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.11	15.99	16.07	17.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.04	16.10	16.05	17.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	16.03	16.12	15.98	17.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	16.12	15.98	16.00	17.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	16.04	16.12	16.07	17.5

Par270 n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	16.07	3750		
100	PI2 BPSK	1	137	16.03		17.5	0.0
100	PI2 BPSK	1	271	16.10			
100	PI2 BPSK	135	0	16.08		17.5	0.0
100	PI2 BPSK	135	69	16.02		17.5	0.0
100	PI2 BPSK	135	138	16.05		17.5	0.0
100	PI2 BPSK	270	0	16.08			
100	QPSK	1	1	16.13			
100	QPSK	1	137	16.00		17.5	0.0
100	QPSK	1	271	16.12			
100	QPSK	135	0	16.02			
100	QPSK	135	69	16.11		17.5	0.0
100	QPSK	135	138	16.07		17.5	0.0
100	QPSK	270	0	15.98		17.5	0.0
100	16QAM	1	1	16.10		17.5	0.0
100	64QAM	1	1	16.01		17.5	0.0
100	256QAM	1	1	16.12		17.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	16.00	16.00	16.08	17.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	16.01	16.11	16.01	17.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	16.09	16.04	16.01	17.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	16.11	16.03	16.01	17.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	16.04	16.00	15.98	17.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.11	15.99	16.07	17.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.04	16.10	16.05	17.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	16.03	16.12	15.98	17.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	16.12	15.98	16.00	17.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	16.04	16.12	16.07	17.5



Part27Q n78_Ant 10							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	16.01	3499.98		
100	PI2 BPSK	1	137	15.95		17.5	0.0
100	PI2 BPSK	1	271	16.02			
100	PI2 BPSK	135	0	16.02		17.5	0.0
100	PI2 BPSK	135	69	15.97		17.5	0.0
100	PI2 BPSK	135	138	16.01		17.5	0.0
100	PI2 BPSK	270	0	16.03			
100	QPSK	1	1	16.10			
100	QPSK	1	137	15.99		17.5	0.0
100	QPSK	1	271	16.02			
100	QPSK	135	0	15.99			
100	QPSK	135	69	16.05		17.5	0.0
100	QPSK	135	138	16.01		17.5	0.0
100	QPSK	270	0	16.07		17.5	0.0
100	16QAM	1	1	16.02		17.5	0.0
100	64QAM	1	1	15.95		17.5	0.0
100	256QAM	1	1	16.05		17.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	16.04	16.03	16.01	17.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.96	16.01	16.01	17.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.96	16.08	16.08	17.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.99	15.98	16.09	17.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.98	16.04	16.00	17.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.00	16.06	16.09	17.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.00	16.06	16.09	17.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	16.07	15.96	16.09	17.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.98	15.98	15.97	17.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.96	16.00	15.97	17.5

Part27Q n78_Ant 10_HPUE							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	16.01	3499.98		
100	PI2 BPSK	1	137	15.95		17.5	0.0
100	PI2 BPSK	1	271	16.02			
100	PI2 BPSK	135	0	16.02		17.5	0.0
100	PI2 BPSK	135	69	15.97		17.5	0.0
100	PI2 BPSK	135	138	16.01		17.5	0.0
100	PI2 BPSK	270	0	16.03			
100	QPSK	1	1	16.10			
100	QPSK	1	137	15.99		17.5	0.0
100	QPSK	1	271	16.02			
100	QPSK	135	0	15.99			
100	QPSK	135	69	16.05		17.5	0.0
100	QPSK	135	138	16.01		17.5	0.0
100	QPSK	270	0	16.07		17.5	0.0
100	16QAM	1	1	16.02		17.5	0.0
100	64QAM	1	1	15.95		17.5	0.0
100	256QAM	1	1	16.05		17.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	16.04	16.03	16.01	17.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	15.96	16.01	16.01	17.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	15.96	16.08	16.08	17.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	15.99	15.98	16.09	17.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	15.98	16.04	16.00	17.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.00	16.06	16.09	17.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.00	16.06	16.09	17.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	16.07	15.96	16.09	17.5
Channel							
Frequency (MHz)							
15	QPSK	1	1	15.98	15.98	15.97	17.5
Channel							
Frequency (MHz)							
10	QPSK	1	1	15.96	16.00	15.97	17.5



Reduced Power Mode for DS17

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)				1860	1880	1900			
20	PI2 BPSK	1	1	14.85	14.88	14.71			
20	PI2 BPSK	1	53	14.83	14.81	14.69	16.0	0.0	
20	PI2 BPSK	1	104	14.86	14.87	14.65			
20	PI2 BPSK	50	0	14.88	14.85	14.73	16.0	0.0	
20	PI2 BPSK	50	28	14.80	14.88	14.69	16.0	0.0	
20	PI2 BPSK	50	56	14.86	14.90	14.67			
20	PI2 BPSK	100	0	14.85	14.87	14.68	16.0	0.0	
20	QPSK	1	1	14.89	14.95	14.92			
20	QPSK	1	53	14.80	14.91	14.73	16.0	0.0	
20	QPSK	1	104	14.76	14.83	14.76			
20	QPSK	50	0	14.84	14.88	14.84	16.0	0.0	
20	QPSK	50	28	14.88	14.91	14.76	16.0	0.0	
20	QPSK	50	56	14.78	14.90	14.84	16.0	0.0	
20	QPSK	100	0	14.82	14.85	14.72			
20	16QAM	1	1	14.92	14.96	14.63	16.0	0.0	
20	16QAM	1	1	14.88	14.88	14.63	16.0	0.0	
20	256QAM	1	1	14.83	14.84	14.74	16.0	0.0	
Channel				371500	376000	380500			
Frequency (MHz)				1872.5	1900	1927.5			
15	QPSK	1	1	14.87	14.80	14.71	16.0	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1865	1880	1895			
10	QPSK	1	1	14.79	14.91	14.71	16.0	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	14.75	14.87	14.65	16.0	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)				1860	1880	1900			
20	PI2 BPSK	1	1	12.23	12.32	12.24			
20	PI2 BPSK	1	53	12.27	12.38	12.22	13.5	0.0	
20	PI2 BPSK	1	104	12.33	12.38	12.31			
20	PI2 BPSK	50	0	12.25	12.39	12.24	13.5	0.0	
20	PI2 BPSK	50	28	12.33	12.40	12.27			
20	PI2 BPSK	50	56	12.23	12.38	12.31	13.5	0.0	
20	PI2 BPSK	100	0	12.30	12.30	12.25			
20	QPSK	1	1	12.42	12.45	12.37			
20	QPSK	1	53	12.32	12.44	12.30	13.5	0.0	
20	QPSK	1	104	12.35	12.34	12.28			
20	QPSK	50	0	12.24	12.41	12.24	13.5	0.0	
20	QPSK	50	28	12.35	12.43	12.31	13.5	0.0	
20	QPSK	50	56	12.24	12.33	12.25	13.5	0.0	
20	QPSK	100	0	12.34	12.41	12.26			
20	16QAM	1	1	12.24	12.34	12.28	13.5	0.0	
20	16QAM	1	1	12.28	12.35	12.28	13.5	0.0	
20	256QAM	1	1	12.28	12.39	12.30	13.5	0.0	
Channel				371500	376000	380500			
Frequency (MHz)				1872.5	1900	1927.5			
15	QPSK	1	1	12.26	12.35	12.31	13.5	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1865	1880	1895			
10	QPSK	1	1	12.33	12.38	12.26	13.5	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1862.5	1880	1907.5			
5	QPSK	1	1	12.33	12.32	12.29	13.5	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				166000	167200	167600			
Frequency (MHz)				830	835.5	839			
20	PI2 BPSK	1	1	22.89	22.96	22.76			
20	PI2 BPSK	1	53	22.88	22.84	22.79	24.0	0.0	
20	PI2 BPSK	1	104	22.81	22.90	22.79			
20	PI2 BPSK	50	0	22.85	22.92	22.79	24.0	0.0	
20	PI2 BPSK	50	28	22.83	22.96	22.85	24.0	0.0	
20	PI2 BPSK	50	56	22.90	22.86	22.78			
20	PI2 BPSK	100	0	22.76	22.81	22.72	24.0	0.0	
20	QPSK	1	1	22.92	22.97	22.80			
20	QPSK	1	53	22.81	22.78	22.73	24.0	0.0	
20	QPSK	1	104	22.83	22.79	22.72			
20	QPSK	50	0	22.76	22.77	22.75	24.0	0.0	
20	QPSK	50	28	22.78	22.81	22.76	24.0	0.0	
20	QPSK	50	56	22.77	22.74	22.68	24.0	0.0	
20	QPSK	100	0	22.76	22.80	22.68			
20	16QAM	1	1	22.77	22.81	22.75	24.0	0.0	
20	16QAM	1	1	21.95	22.02	22.01	23.0	1.0	
20	256QAM	1	1	19.87	19.97	19.87	21.0	3.0	
Channel				165300	167300	168300			
Frequency (MHz)				826.5	831.5	836.5			
15	QPSK	1	1	22.79	22.78	22.75	24.0	0.0	
Channel				165800	167300	168800			
Frequency (MHz)				829	833.5	838			
10	QPSK	1	1	22.85	22.74	22.76	24.0	0.0	
Channel				166300	167300	169300			
Frequency (MHz)				836.5	836.5	846.5			
5	QPSK	1	1	22.84	22.83	22.78	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	PI2 BPSK	1	1	20.08	20.13	20.09	21.5	0.0		
20	PI2 BPSK	1	53	20.02	20.11	20.01				
20	PI2 BPSK	1	104	20.04	20.06	20.04				
20	PI2 BPSK	50	0	20.08	20.06	20.07	21.5	0.0		
20	PI2 BPSK	50	28	20.01	20.07	20.03	21.5	0.0		
20	PI2 BPSK	50	56	20.00	20.05	20.05	21.5	0.0		
20	PI2 BPSK	100	0	20.01	20.14	19.99	21.5	0.0		
20	QPSK	1	1	20.23	20.24	20.22				
20	QPSK	1	53	20.10	20.20	20.20				
20	QPSK	1	104	20.12	20.15	20.19	21.5	0.0		
20	QPSK	50	0	20.12	20.14	20.09	21.5	0.0		
20	QPSK	50	28	20.13	20.18	20.11	21.5	0.0		
20	QPSK	50	56	20.09	20.05	20.09	21.5	0.0		
20	QPSK	100	0	20.01	20.11	20.10	21.5	0.0		
20	16QAM	1	1	20.08	20.02	20.05	21.5	0.0		
20	64QAM	1	1	20.01	20.14	20.07	21.5	0.0		
20	256QAM	1	1	19.30	19.31	19.28	20.5	1.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	20.03	20.11	20.05	21.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	20.07	20.12	20.06	21.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	20.01	20.08	20.04	21.5	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)										
40	PI2 BPSK	1	1	12.81	13.03	13.02	14.0	0.0		
40	PI2 BPSK	1	108	12.67	12.95	12.91				
40	PI2 BPSK	1	214	12.68	12.86	12.82				
40	PI2 BPSK	108	0	12.53	12.94	12.76	14.0	0.0		
40	PI2 BPSK	108	54	12.67	12.97	12.86	14.0	0.0		
40	PI2 BPSK	108	108	12.60	12.88	12.82	14.0	0.0		
40	PI2 BPSK	216	0	12.76	13.03	12.82	14.0	0.0		
40	QPSK	1	1	12.52	13.06	13.05				
40	QPSK	1	108	12.69	13.02	13.01				
40	QPSK	1	214	12.74	12.95	12.92	14.0	0.0		
40	QPSK	108	0	12.61	13.01	12.85	14.0	0.0		
40	QPSK	108	54	12.72	13.05	12.91	14.0	0.0		
40	QPSK	108	108	12.68	12.93	12.85	14.0	0.0		
40	QPSK	216	0	12.81	13.04	12.88	14.0	0.0		
40	16QAM	1	1	12.80	13.00	12.98	14.0	0.0		
40	64QAM	1	1	12.65	12.98	12.99	14.0	0.0		
40	256QAM	1	1	12.70	12.90	12.82	14.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	12.72	12.98	12.99	14.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	12.76	12.97	12.99	14.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	12.81	13.02	13.00	14.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	12.73	12.93	12.97	14.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	12.76	13.01	12.99	14.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	12.74	13.01	13.04	14.0	0.0		

n7_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)										
40	PI2 BPSK	1	1	18.93	19.10	18.97	20.0	0.0		
40	PI2 BPSK	1	108	18.85	18.94	18.85				
40	PI2 BPSK	1	214	18.85	18.89	18.88				
40	PI2 BPSK	108	0	18.80	18.90	18.77	20.0	0.0		
40	PI2 BPSK	108	54	19.01	18.96	18.96	20.0	0.0		
40	PI2 BPSK	108	108	18.74	18.87	18.86	20.0	0.0		
40	PI2 BPSK	216	0	18.86	18.97	18.79	20.0	0.0		
40	QPSK	1	1	19.03	19.11	19.06				
40	QPSK	1	108	18.92	18.96	18.87				
40	QPSK	1	214	18.93	18.92	18.92	20.0	0.0		
40	QPSK	108	0	18.89	18.95	18.81	20.0	0.0		
40	QPSK	108	54	19.02	19.05	19.07	20.0	0.0		
40	QPSK	108	108	18.84	18.91	18.88	20.0	0.0		
40	QPSK	216	0	18.93	19.06	18.85	20.0	0.0		
40	16QAM	1	1	19.00	19.10	18.92	20.0	0.0		
40	64QAM	1	1	18.85	18.88	18.80	20.0	0.0		
40	256QAM	1	1	18.87	18.90	18.83	20.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.95	18.99	18.90	20.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	18.97	19.05	18.93	20.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.01	19.04	18.89	20.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	18.95	19.03	18.90	20.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	19.02	19.01	18.96	20.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	18.95	19.10	18.94	20.0	0.0		



n12_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)										
15	PI2 BPSK	1	1	22.89	22.90	22.87				
15	PI2 BPSK	1	40	22.87	22.83	22.77	24.0	0.0		
15	PI2 BPSK	1	77	22.78	22.87	22.84				
15	PI2 BPSK	35	0	22.80	22.80	22.69	24.0	0.0		
15	PI2 BPSK	35	22	22.81	22.88	22.78	24.0	0.0		
15	PI2 BPSK	35	43	22.71	22.81	22.75				
15	PI2 BPSK	12	0	22.74	22.85	22.71	24.0	0.0		
15	QPSK	1	1	22.85	22.82	22.82				
15	QPSK	1	40	22.71	22.85	22.72	24.0	0.0		
15	QPSK	1	77	22.74	22.77	22.70				
15	QPSK	35	0	22.71	22.82	22.71	24.0	0.0		
15	QPSK	35	22	22.73	22.83	22.73	24.0	0.0		
15	QPSK	35	43	22.73	22.78	22.69	24.0	0.0		
15	QPSK	75	0	22.76	22.77	22.76				
15	16QAM	1	1	22.78	22.83	22.76	24.0	0.0		
15	64QAM	1	1	21.67	21.80	21.79	22.5	1.5		
15	256QAM	1	1	19.57	19.70	19.63	20.5	3.5		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.72	22.83	22.68	24.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.76	22.77	22.74	24.0	0.0		

n12_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)										
15	PI2 BPSK	1	1	22.74	22.69	22.69				
15	PI2 BPSK	1	40	22.56	22.59	22.59	23.5	0.0		
15	PI2 BPSK	1	77	22.45	22.67	22.59				
15	PI2 BPSK	35	0	22.49	22.53	22.59	23.5	0.0		
15	PI2 BPSK	35	22	22.61	22.69	22.60	23.5	0.0		
15	PI2 BPSK	35	43	22.44	22.59	22.51				
15	PI2 BPSK	75	0	22.63	22.71	22.60	23.5	0.0		
15	QPSK	1	1	22.75	22.78	22.72				
15	QPSK	1	40	22.62	22.64	22.65	23.5	0.0		
15	QPSK	1	77	22.53	22.68	22.61				
15	QPSK	35	0	22.57	22.63	22.61	23.5	0.0		
15	QPSK	35	22	22.63	22.71	22.65	23.5	0.0		
15	QPSK	35	43	22.52	22.63	22.56	23.5	0.0		
15	QPSK	75	0	22.72	22.74	22.65				
15	16QAM	1	1	22.72	22.73	22.68	23.5	0.0		
15	64QAM	1	1	22.13	22.19	22.17	22.5	1.0		
15	256QAM	1	1	20.02	20.10	20.09	20.5	3.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	22.75	22.66	22.65	23.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.75	22.72	22.67	23.5	0.0		

n14_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)										
10	PI2 BPSK	1	1		22.92					
10	PI2 BPSK	1	25		22.91		24.0	0.0		
10	PI2 BPSK	1	50		22.89					
10	PI2 BPSK	25	0		22.82		24.0	0.0		
10	PI2 BPSK	25	14		22.81		24.0	0.0		
10	PI2 BPSK	25	27		22.82					
10	PI2 BPSK	50	0		22.80		24.0	0.0		
10	QPSK	1	1		22.83					
10	QPSK	1	25		22.84		24.0	0.0		
10	QPSK	1	50		22.89					
10	QPSK	25	0		22.83		24.0	0.0		
10	QPSK	25	14		22.85		24.0	0.0		
10	QPSK	25	27		22.80					
10	QPSK	50	0		22.84		24.0	0.0		
10	16QAM	1	1		22.85		24.0	0.0		
10	64QAM	1	1		22.22		23.0	1.0		
10	256QAM	1	1		20.05		21.0	3.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	22.81	22.84	22.87	24.0	0.0		



n14_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)										
10	PI2 BPSK	1	1	21.11						
10	PI2 BPSK	1	26	20.87			22.5	0.0		
10	PI2 BPSK	1	50	21.02						
10	PI2 BPSK	25	0	20.89			22.5	0.0		
10	PI2 BPSK	25	14	20.95			22.5	0.0		
10	PI2 BPSK	25	27	20.88						
10	PI2 BPSK	50	0	21.07			22.5	0.0		
10	QPSK	1	1	21.14						
10	QPSK	1	26	20.96			22.5	0.0		
10	QPSK	1	50	21.07						
10	QPSK	25	0	20.94			22.5	0.0		
10	QPSK	25	14	21.13			22.5	0.0		
10	QPSK	25	27	20.98						
10	QPSK	50	0	21.12			22.5	0.0		
10	64QAM	1	1	21.08			22.5	0.0		
10	64QAM	1	1	20.89						
10	256QAM	1	1	19.89			21.0	1.5		
Channel										
Frequency (MHz)										
5	QPSK	1	1	21.05	21.10	21.09	22.5	0.0		

n25_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	14.73	14.92	14.74				
40	PI2 BPSK	1	108	14.67	14.86	14.61	16.0	0.0		
40	PI2 BPSK	1	214	14.67	14.66	14.65				
40	PI2 BPSK	108	0	14.64	14.80	14.59	16.0	0.0		
40	PI2 BPSK	108	54	14.69	14.85	14.80	16.0	0.0		
40	PI2 BPSK	108	108	14.60	14.64	14.59				
40	PI2 BPSK	216	0	14.58	14.81	14.74	16.0	0.0		
40	QPSK	1	1	14.80	14.97	14.82				
40	QPSK	1	108	14.76	14.87	14.70	16.0	0.0		
40	QPSK	1	214	14.71	14.76	14.74				
40	QPSK	108	0	14.74	14.86	14.67	16.0	0.0		
40	QPSK	108	54	14.75	14.89	14.81	16.0	0.0		
40	QPSK	108	108	14.63	14.67	14.69	16.0	0.0		
40	QPSK	216	0	14.76	14.69	14.81	16.0	0.0		
40	16QAM	1	1	14.79	14.80	14.73	16.0	0.0		
40	64QAM	1	1	14.69	14.83	14.69	16.0	0.0		
40	256QAM	1	1	14.62	14.73	14.72	16.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	14.75	14.88	14.75	16.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	14.73	14.93	14.75	16.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	14.73	14.84	14.73	16.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	14.75	14.87	14.73	16.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	14.72	14.95	14.75	16.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	14.76	14.91	14.79	16.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	14.70	14.90	14.73	16.0	0.0		

n25_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	11.68	11.79	11.61				
40	PI2 BPSK	1	108	11.64	11.60	11.61	13.5	0.0		
40	PI2 BPSK	1	214	11.60	11.68	11.65				
40	PI2 BPSK	108	0	11.57	11.70	11.51	13.5	0.0		
40	PI2 BPSK	108	54	11.58	11.59	11.52	13.5	0.0		
40	PI2 BPSK	108	108	11.60	11.53	11.54				
40	PI2 BPSK	216	0	11.66	11.71	11.61	13.5	0.0		
40	QPSK	1	1	11.71	11.86	11.65				
40	QPSK	1	108	11.65	11.63	11.62	13.5	0.0		
40	QPSK	1	214	11.68	11.71	11.58				
40	QPSK	108	0	11.67	11.77	11.57	13.5	0.0		
40	QPSK	108	54	11.62	11.61	11.55	13.5	0.0		
40	QPSK	108	108	11.64	11.63	11.55				
40	QPSK	216	0	11.70	11.76	11.60	13.5	0.0		
40	16QAM	1	1	11.62	11.84	11.67	13.5	0.0		
40	64QAM	1	1	11.65	11.81	11.62	13.5	0.0		
40	256QAM	1	1	11.62	11.62	11.58	13.5	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	11.63	11.70	11.47	13.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	11.59	11.62	11.52	13.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	11.63	11.62	11.60	13.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	11.63	11.67	11.65	13.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	11.61	11.60	11.58	13.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	11.58	11.55	11.59	13.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	11.61	11.54	11.58	13.5	0.0		



n26_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)	MSR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.87	22.89	22.83	24.0	0.0	
20	PI2 BPSK	1	53	22.88	22.83	22.87			
20	PI2 BPSK	1	104	22.86	22.79	22.88	24.0	0.0	
20	PI2 BPSK	50	0	22.85	22.85	22.85			
20	PI2 BPSK	50	28	22.92	22.90	22.84	24.0	0.0	
20	PI2 BPSK	50	56	22.87	22.86	22.86			
20	PI2 BPSK	100	0	22.86	22.86	22.81	24.0	0.0	
20	QPSK	1	1	22.95	22.95	23.02			
20	QPSK	1	53	22.96	22.81	22.86	24.0	0.0	
20	QPSK	1	104	22.90	22.88	22.83			
20	QPSK	50	0	22.85	22.82	22.87	24.0	0.0	
20	QPSK	50	28	22.87	22.85	22.88			
20	QPSK	50	56	22.82	22.81	22.85	24.0	0.0	
20	QPSK	100	0	22.86	22.79	22.83			
20	16QAM	1	1	22.96	22.85	22.85	24.0	0.0	
20	64QAM	1	1	22.17	22.22	22.23			
20	256QAM	1	1	20.21	20.21	20.13	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.89	22.88	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.90	22.79	22.91	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.92	22.86	22.86	24.0	0.0	
Channel									
Frequency (MHz)									

n26_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)	MSR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	20.38	20.45	20.42	21.5	0.0	
20	PI2 BPSK	1	53	20.32	20.44	20.33			
20	PI2 BPSK	1	104	20.36	20.40	20.37	21.5	0.0	
20	PI2 BPSK	50	0	20.31	20.34	20.33			
20	PI2 BPSK	50	28	20.36	20.40	20.40	21.5	0.0	
20	PI2 BPSK	50	56	20.19	20.26	20.25			
20	PI2 BPSK	100	0	20.33	20.43	20.37	21.5	0.0	
20	QPSK	1	1	20.46	20.52	20.45			
20	QPSK	1	53	20.40	20.45	20.43	21.5	0.0	
20	QPSK	1	104	20.38	20.41	20.37			
20	QPSK	50	0	20.36	20.37	20.38	21.5	0.0	
20	QPSK	50	28	20.41	20.47	20.44			
20	QPSK	50	56	20.29	20.34	20.28	21.5	0.0	
20	QPSK	100	0	20.41	20.45	20.38			
20	16QAM	1	1	20.44	20.46	20.40	21.5	0.0	
20	64QAM	1	1	20.39	20.40	20.37			
20	256QAM	1	1	19.29	19.37	19.42	21.0	0.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.37	20.50	20.38	21.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.41	20.46	20.46	21.5	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.45	20.43	20.47	21.5	0.0	
Channel									
Frequency (MHz)									



n30_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up (m)	MFR (dB)	
Channel				46000					
Frequency (MHz)				2315					
10	PI2 BPSK	1	1	12.57			14.5	0.0	
10	PI2 BPSK	1	26	12.53					
10	PI2 BPSK	1	50	12.61					
10	PI2 BPSK	25	0	12.57			14.5	0.0	
10	PI2 BPSK	25	14	12.51			14.5	0.0	
10	PI2 BPSK	25	27	12.51			14.5	0.0	
10	PI2 BPSK	50	0	12.57					
10	QPSK	1	1	12.65					
10	QPSK	1	26	12.62			14.5	0.0	
10	QPSK	1	50	12.57					
10	QPSK	25	0	12.51			14.5	0.0	
10	QPSK	25	14	12.58			14.5	0.0	
10	QPSK	25	27	12.57			14.5	0.0	
10	QPSK	50	0	12.50					
10	16QAM	1	1	12.58			14.5	0.0	
10	16QAM	1	1	12.57			14.5	0.0	
10	256QAM	1	1	12.51			14.5	0.0	
Channel				46100	46000	46200	Tune-up (m)	MFR (dB)	
Frequency (MHz)				2307.5	2315	2312.5			
5	QPSK	1	1	12.61	12.61	12.53	14.5	0.0	

n30_Ant 9									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up (m)	MFR (dB)	
Channel				46000					
Frequency (MHz)				2315					
10	PI2 BPSK	1	1	19.89			21.0	0.0	
10	PI2 BPSK	1	26	19.93					
10	PI2 BPSK	1	50	19.99					
10	PI2 BPSK	25	0	19.96			21.0	0.0	
10	PI2 BPSK	25	14	19.91			21.0	0.0	
10	PI2 BPSK	25	27	19.95			21.0	0.0	
10	PI2 BPSK	50	0	19.85					
10	QPSK	1	1	20.00					
10	QPSK	1	26	19.98			21.0	0.0	
10	QPSK	1	50	19.90					
10	QPSK	25	0	19.85			21.0	0.0	
10	QPSK	25	14	19.97			21.0	0.0	
10	QPSK	25	27	19.88			21.0	0.0	
10	QPSK	50	0	19.80					
10	16QAM	1	1	19.96			21.0	0.0	
10	16QAM	1	1	19.93			21.0	0.0	
10	256QAM	1	1	19.97			21.0	0.0	
Channel				46100	46000	46200	Tune-up (m)	MFR (dB)	
Frequency (MHz)				2307.5	2315	2312.5			
5	QPSK	1	1	19.96	19.88	19.95	21.0	0.0	



n66_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	15.01	15.04	15.09				
40	PI2 BPSK	1	108	15.92	15.86	15.86	17.0	0.0		
40	PI2 BPSK	1	214	15.92	15.88	15.84				
40	PI2 BPSK	108	0	15.78	15.80	15.80	17.0	0.0		
40	PI2 BPSK	108	54	15.99	15.04	15.80	17.0	0.0		
40	PI2 BPSK	108	108	15.72	15.84	15.83				
40	PI2 BPSK	216	0	15.95	15.06	15.89	17.0	0.0		
40	QPSK	1	1	15.02	15.11	15.25				
40	QPSK	1	108	15.96	15.92	15.94	17.0	0.0		
40	QPSK	1	214	15.90	15.91	15.93				
40	QPSK	108	0	15.85	15.85	15.89	17.0	0.0		
40	QPSK	108	54	15.01	15.08	15.20	17.0	0.0		
40	QPSK	108	108	15.80	15.88	15.88	17.0	0.0		
40	QPSK	216	0	15.00	15.10	15.20				
40	64QAM	1	1	15.00	15.06	15.85	17.0	0.0		
40	64QAM	1	1	15.87	15.83	15.85	17.0	0.0		
40	256QAM	1	1	15.81	15.84	15.87	17.0	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	15.95	15.04	15.85	17.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	15.98	15.04	15.87	17.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	15.00	15.00	15.83	17.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	15.04	15.10	15.88	17.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	15.02	15.09	15.93	17.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	15.86	15.09	15.86	17.0	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	15.01	15.02	15.91	17.0	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)										
40	PI2 BPSK	1	1	13.69	13.76	13.73				
40	PI2 BPSK	1	108	13.62	13.64	13.55	14.5	0.0		
40	PI2 BPSK	1	214	13.63	13.75	13.73				
40	PI2 BPSK	108	0	13.55	13.61	13.62	14.5	0.0		
40	PI2 BPSK	108	54	13.56	13.72	13.65	14.5	0.0		
40	PI2 BPSK	108	108	13.52	13.64	13.66				
40	PI2 BPSK	216	0	13.57	13.69	13.71	14.5	0.0		
40	QPSK	1	1	13.75	13.82	13.81				
40	QPSK	1	108	13.70	13.74	13.65	14.5	0.0		
40	QPSK	1	214	13.67	13.78	13.77				
40	QPSK	108	0	13.65	13.70	13.64	14.5	0.0		
40	QPSK	108	54	13.60	13.78	13.75	14.5	0.0		
40	QPSK	108	108	13.61	13.73	13.74	14.5	0.0		
40	QPSK	216	0	13.65	13.75	13.72				
40	16QAM	1	1	13.65	13.72	13.76	14.5	0.0		
40	64QAM	1	1	13.69	13.69	13.59	14.5	0.0		
40	256QAM	1	1	13.60	13.78	13.68	14.5	0.0		
Channel										
Frequency (MHz)										
35	QPSK	1	1	13.68	13.75	13.80	14.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	13.63	13.78	13.73	14.5	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	13.63	13.74	13.73	14.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	13.63	13.74	13.73	14.5	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	13.64	13.75	13.72	14.5	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1	13.69	13.76	13.77	14.5	0.0		
Channel										
Frequency (MHz)										
5	QPSK	1	1	13.69	13.72	13.72	14.5	0.0		

n70_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)										
15	PI2 BPSK	1	1		16.69					
15	PI2 BPSK	1	40		16.59		18.0	0.0		
15	PI2 BPSK	1	77		16.59					
15	PI2 BPSK	36	0		16.63		18.0	0.0		
15	PI2 BPSK	36	22		16.50		18.0	0.0		
15	PI2 BPSK	36	43		16.60		18.0	0.0		
15	PI2 BPSK	75	0		16.64					
15	QPSK	1	1		16.78					
15	QPSK	1	40		16.64		18.0	0.0		
15	QPSK	1	77		16.63					
15	QPSK	36	0		16.60		18.0	0.0		
15	QPSK	36	22		16.74		18.0	0.0		
15	QPSK	36	43		16.61		18.0	0.0		
15	QPSK	75	0		16.72					
15	16QAM	1	1		16.70		18.0	0.0		
15	64QAM	1	1		16.64		18.0	0.0		
15	256QAM	1	1		16.63		18.0	0.0		
Channel										
Frequency (MHz)										
10	QPSK	1	1		16.75	16.77	16.68	18.0	0.0	
Channel										
Frequency (MHz)										
5	QPSK	1	1		16.72	16.75	16.71	18.0	0.0	



n70_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)									
15	PI2 BPSK	1	1	14.34					
15	PI2 BPSK	1	40	14.22			15.0	0.0	
15	PI2 BPSK	1	77	14.22					
15	PI2 BPSK	36	0	14.25			15.0	0.0	
15	PI2 BPSK	36	22	14.37			15.0	0.0	
15	PI2 BPSK	36	43	14.11			15.0	0.0	
15	PI2 BPSK	12	0	14.26					
15	QPSK	1	1	14.43					
15	QPSK	1	40	14.32			15.0	0.0	
15	QPSK	1	77	14.24					
15	QPSK	36	0	14.33			15.0	0.0	
15	QPSK	36	22	14.42			15.0	0.0	
15	QPSK	36	43	14.12			15.0	0.0	
15	QPSK	75	0	14.31			15.0	0.0	
15	16QAM	1	1	14.42			15.0	0.0	
15	64QAM	1	1	14.33			15.0	0.0	
15	256QAM	1	1	14.28			15.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.34	14.38	14.39	15.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	14.40	14.36	14.40	15.0	0.0	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.09	23.03			
30	PI2 BPSK	1	80	23.01	23.04	22.92	24.0	0.0	
30	PI2 BPSK	1	158	23.00	23.08	23.01			
30	PI2 BPSK	80	0	22.96	23.01	22.91	24.0	0.0	
30	PI2 BPSK	80	40	22.99	23.03	23.01	24.0	0.0	
30	PI2 BPSK	80	80	22.91	23.02	22.92	24.0	0.0	
30	PI2 BPSK	160	0	22.95	22.99	22.98			
30	QPSK	1	1	23.08	23.10	23.01			
30	QPSK	1	80	22.94	22.98	22.93	24.0	0.0	
30	QPSK	1	158	22.88	23.02	22.97			
30	QPSK	80	0	22.89	22.93	22.91	24.0	0.0	
30	QPSK	80	40	22.91	22.96	22.93	24.0	0.0	
30	QPSK	80	80	22.88	22.90	22.91	24.0	0.0	
30	QPSK	160	0	22.91	22.95	22.96			
30	16QAM	1	1	22.90	22.93	22.93	24.0	0.0	
30	64QAM	1	1	22.40	22.55	22.41	23.0	1.0	
30	256QAM	1	1	20.38	20.40	20.38	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	22.83	22.97	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.90	23.02	22.96	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.80	22.89	22.82	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.96	22.92	22.98	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.97	22.94	23.00	24.0	0.0	

n71_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)									
30	PI2 BPSK	1	1	23.08	23.13	23.13			
30	PI2 BPSK	1	80	23.15	23.16	23.10	24.0	0.0	
30	PI2 BPSK	1	158	23.18	23.24	23.20			
30	PI2 BPSK	80	0	23.15	23.19	23.17	24.0	0.0	
30	PI2 BPSK	80	40	23.18	23.25	23.20	24.0	0.0	
30	PI2 BPSK	80	80	23.08	23.10	23.17	24.0	0.0	
30	PI2 BPSK	160	0	23.15	23.19	23.18			
30	QPSK	1	1	23.23	23.29	23.24			
30	QPSK	1	80	23.20	23.18	23.13	24.0	0.0	
30	QPSK	1	158	23.16	23.11	23.09			
30	QPSK	80	0	23.09	23.09	23.11	24.0	0.0	
30	QPSK	80	40	23.13	23.19	23.17	24.0	0.0	
30	QPSK	80	80	23.11	23.11	23.14	24.0	0.0	
30	QPSK	160	0	23.08	23.10	23.06			
30	16QAM	1	1	23.08	23.15	23.14	24.0	0.0	
30	64QAM	1	1	21.97	22.03	21.98	23.0	1.0	
30	256QAM	1	1	19.83	19.93	19.83	21.0	3.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.10	23.15	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.15	23.10	23.14	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.13	23.14	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.07	23.11	23.11	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.17	23.09	24.0	0.0	



n38_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)				2996.02	2995	2994.98			
40	PI2 BPSK	1	1	12.21	12.33	12.22			
40	PI2 BPSK	1	53	12.23	12.27	12.21	14.0	0.0	
40	PI2 BPSK	1	104	12.23	12.39	12.33			
40	PI2 BPSK	50	0	12.18	12.23	12.30	14.0	0.0	
40	PI2 BPSK	50	28	12.32	12.34	12.26	14.0	0.0	
40	PI2 BPSK	50	56	12.33	12.22	12.20	14.0	0.0	
40	PI2 BPSK	100	0	12.23	12.24	12.26			
40	QPSK	1	1	12.29	12.43	12.31			
40	QPSK	1	53	12.22	12.27	12.23	14.0	0.0	
40	QPSK	1	104	12.20	12.30	12.30			
40	QPSK	50	0	12.30	12.25	12.23			
40	QPSK	50	28	12.34	12.38	12.36	14.0	0.0	
40	QPSK	50	56	12.23	12.35	12.17			
40	QPSK	100	0	12.13	12.38	12.29	14.0	0.0	
40	16QAM	1	1	12.14	12.34	12.34	14.0	0.0	
40	16QAM	1	1	12.18	12.21	12.28	14.0	0.0	
40	16QAM	1	1	12.23	12.24	12.30	14.0	0.0	
Channel									
Frequency (MHz)				517002	518000	509998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	12.29	12.37	12.24	14.0	0.0	
Channel									
Frequency (MHz)				518000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	12.29	12.35	12.19	14.0	0.0	
Channel									
Frequency (MHz)				519000	520000	521000	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	12.20	12.35	12.20	14.0	0.0	
Channel									
Frequency (MHz)				519004	519000	520996	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	12.30	12.34	12.30	14.0	0.0	

n38_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)				2996.02	2995	2994.98			
40	PI2 BPSK	1	1	18.80	18.84	18.81			
40	PI2 BPSK	1	53	18.85	18.91	18.73	20.0	0.0	
40	PI2 BPSK	1	104	18.84	18.94	18.82			
40	PI2 BPSK	50	0	18.87	18.93	18.72	20.0	0.0	
40	PI2 BPSK	50	28	18.77	18.87	18.81	20.0	0.0	
40	PI2 BPSK	50	56	18.81	18.98	18.75	20.0	0.0	
40	PI2 BPSK	100	0	18.87	18.95	18.77			
40	QPSK	1	1	18.94	19.05	18.91			
40	QPSK	1	53	18.91	18.96	18.90	20.0	0.0	
40	QPSK	1	104	18.81	18.99	18.91			
40	QPSK	50	0	18.89	18.86	18.73			
40	QPSK	50	28	18.96	18.99	18.83	20.0	0.0	
40	QPSK	50	56	18.87	18.90	18.74			
40	QPSK	100	0	18.89	18.98	18.72	20.0	0.0	
40	16QAM	1	1	18.84	18.91	18.76	20.0	0.0	
40	16QAM	1	1	18.87	18.83	18.73	20.0	0.0	
40	16QAM	1	1	18.78	18.97	18.72	20.0	0.0	
Channel									
Frequency (MHz)				517002	518000	509998	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	18.81	18.91	18.82	20.0	0.0	
Channel									
Frequency (MHz)				518000	519000	520000	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	18.81	18.95	18.77	20.0	0.0	
Channel									
Frequency (MHz)				519000	519000	520996	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	18.80	18.97	18.75	20.0	0.0	
Channel									
Frequency (MHz)				519004	519000	520996	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	18.83	18.86	18.75	20.0	0.0	

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)				2946.01	2942.99	2943			
100	PI2 BPSK	1	1	12.33	12.45	12.34			
100	PI2 BPSK	1	137	12.37	12.32	12.33	14.0	0.0	
100	PI2 BPSK	1	271	12.26	12.44	12.39			
100	PI2 BPSK	135	0	12.27	12.34	12.41	14.0	0.0	
100	PI2 BPSK	135	69	12.37	12.44	12.38	14.0	0.0	
100	PI2 BPSK	135	138	12.34	12.36	12.32	14.0	0.0	
100	PI2 BPSK	270	0	12.38	12.31	12.40			
100	QPSK	1	1	12.40	12.46	12.42			
100	QPSK	1	137	12.31	12.39	12.28	14.0	0.0	
100	QPSK	1	271	12.30	12.44	12.41			
100	QPSK	135	0	12.33	12.31	12.29			
100	QPSK	135	69	12.36	12.48	12.47	14.0	0.0	
100	QPSK	135	138	12.32	12.37	12.27			
100	QPSK	270	0	12.28	12.38	12.35	14.0	0.0	
100	16QAM	1	1	12.27	12.36	12.38	14.0	0.0	
100	16QAM	1	1	12.26	12.36	12.31	14.0	0.0	
100	16QAM	1	1	12.25	12.35	12.37	14.0	0.0	
Channel									
Frequency (MHz)				506000	518898	509998	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	12.39	12.34	12.30	14.0	0.0	
Channel									
Frequency (MHz)				507004	518898	520998	Tune-up limit (dBm)	MPR (dB)	
80	QPSK	1	1	12.34	12.43	12.27	14.0	0.0	
Channel									
Frequency (MHz)				5231.01	2592.99	2605	Tune-up limit (dBm)	MPR (dB)	
70	QPSK	1	1	12.37	12.34	12.33	14.0	0.0	
Channel									
Frequency (MHz)				505000	518898	520998	Tune-up limit (dBm)	MPR (dB)	
60	QPSK	1	1	12.31	12.41	12.37	14.0	0.0	
Channel									
Frequency (MHz)				2581.01	2592.99	2614.98	Tune-up limit (dBm)	MPR (dB)	
50	QPSK	1	1	12.28	12.39	12.40	14.0	0.0	
Channel									
Frequency (MHz)				500002	518898	530000	Tune-up limit (dBm)	MPR (dB)	
40	QPSK	1	1	12.32	12.41	12.38	14.0	0.0	
Channel									
Frequency (MHz)				2593.02	2592.99	2614.98	Tune-up limit (dBm)	MPR (dB)	
30	QPSK	1	1	12.39	12.35	12.39	14.0	0.0	
Channel									
Frequency (MHz)				501004	518898	520998	Tune-up limit (dBm)	MPR (dB)	
20	QPSK	1	1	12.29	12.34	12.30	14.0	0.0	
Channel									
Frequency (MHz)				500700	518898	536498	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	12.35	12.49	12.42	14.0	0.0	
Channel									
Frequency (MHz)				2591.01	2592.99	2603	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	12.38	12.39	12.37	14.0	0.0	



n41_Ant 1_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	High Ch. Freq.		
Channel				509002	518998	528990		
Frequency (MHz)				2545.01	2592.99	2640		
100	PI2 BPSK	1	1	12.25	12.43	12.24		
100	PI2 BPSK	1	137	12.37	12.32	12.33	14.0	0.0
100	PI2 BPSK	1	271	12.26	12.44	12.29		
100	PI2 BPSK	135	0	12.27	12.34	12.41	14.0	0.0
100	PI2 BPSK	135	69	12.37	12.44	12.38	14.0	0.0
100	PI2 BPSK	135	138	12.34	12.36	12.32		
100	PI2 BPSK	270	0	12.38	12.31	12.40	14.0	0.0
100	QPSK	1	1	12.40	12.46	12.42		
100	QPSK	1	137	12.31	12.29	12.29	14.0	0.0
100	QPSK	1	271	12.30	12.44	12.41		
100	QPSK	135	0	12.33	12.31	12.29		
100	QPSK	135	69	12.37	12.39	12.34	14.0	0.0
100	QPSK	135	138	12.32	12.37	12.27		
100	QPSK	270	0	12.28	12.38	12.35	14.0	0.0
100	16QAM	1	1	12.27	12.36	12.38	14.0	0.0
100	64QAM	1	1	12.26	12.36	12.31	14.0	0.0
100	256QAM	1	1	12.25	12.39	12.37	14.0	0.0
Channel				508500	518998	528996		
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	12.30	12.34	12.30	14.0	0.0
Channel				507204	518998	528998		
Frequency (MHz)				2536.02	2592.99	2648.99		
80	QPSK	1	1	12.34	12.43	12.27	14.0	0.0
Channel				505200	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	12.37	12.34	12.33	14.0	0.0
Channel				503200	518998	531996		
Frequency (MHz)				2526	2592.99	2669.98		
60	QPSK	1	1	12.31	12.41	12.37	14.0	0.0
Channel				504204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2684.99		
50	QPSK	1	1	12.29	12.39	12.40	14.0	0.0
Channel				503202	518998	536000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	12.32	12.41	12.38	14.0	0.0
Channel				502200	518998	535998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	12.30	12.35	12.39	14.0	0.0
Channel				507204	518998	535996		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	12.29	12.34	12.30	14.0	0.0
Channel				500700	518998	538498		
Frequency (MHz)				2501.5	2592.99	2684.48		
15	QPSK	1	1	12.35	12.41	12.34	14.0	0.0
Channel				500202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	12.30	12.29	12.27	14.0	0.0



n41_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				506202	518598	526900			
Frequency (MHz)				2541.01	2592.99	2640			
100	PI2 BPSK	1	1	14.95	15.00	14.88			
100	PI2 BPSK	1	137	15.07	14.98	15.00	16.5	0.0	
100	PI2 BPSK	1	271	14.97	14.98	14.95			
100	PI2 BPSK	135	0	14.99	15.07	15.01	16.5	0.0	
100	PI2 BPSK	135	69	15.00	15.02	15.00	16.5	0.0	
100	PI2 BPSK	135	138	15.01	15.04	14.90	16.5	0.0	
100	PI2 BPSK	270	0	15.05	15.00	14.88			
100	QPSK	1	1	15.02	15.10	15.02			
100	QPSK	1	137	14.94	14.95	14.95	16.5	0.0	
100	QPSK	1	271	15.02	14.97	14.99			
100	QPSK	135	0	15.02	14.99	14.87			
100	QPSK	135	69	15.01	15.05	15.01	16.5	0.0	
100	QPSK	135	138	14.93	14.96	14.93			
100	QPSK	270	0	14.97	15.02	14.94	16.5	0.0	
100	16QAM	1	1	14.99	15.02	14.88	16.5	0.0	
100	64QAM	1	1	14.94	14.99	15.00	16.5	0.0	
100	256QAM	1	1	15.04	15.07	14.91	16.5	0.0	
Channel				506200	518598	526996	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	15.01	14.94	14.85	16.5	0.0	
Channel				507204	518598	526968	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	14.97	14.95	14.94	16.5	0.0	
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2631.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	15.05	15.00	14.99	16.5	0.0	
Channel				502200	518598	531996	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2522.00	2592.99	2669.98	(dBm)	(dB)	
60	QPSK	1	1	15.00	14.97	14.92	16.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2521.02	2592.99	2674.98	(dBm)	(dB)	
50	QPSK	1	1	15.07	14.97	14.90	16.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	15.01	14.97	14.90	16.5	0.0	
Channel				502200	518598	535000	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	15.04	15.07	14.90	16.5	0.0	
Channel				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	15.05	15.04	14.97	16.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2503.15	2592.99	2682.48	(dBm)	(dB)	
15	QPSK	1	1	14.95	15.08	14.96	16.5	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	14.90	14.90	14.95	16.5	0.0	

n41_Ant 2_HPUE									
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				506202	518598	526900			
Frequency (MHz)				2541.01	2592.99	2640			
100	PI2 BPSK	1	1	14.95	15.00	14.88			
100	PI2 BPSK	1	137	15.07	14.98	15.00	16.5	0.0	
100	PI2 BPSK	1	271	14.97	14.98	14.95			
100	PI2 BPSK	135	0	14.99	15.07	15.01	16.5	0.0	
100	PI2 BPSK	135	69	15.00	15.02	15.00	16.5	0.0	
100	PI2 BPSK	135	138	15.01	15.04	14.90	16.5	0.0	
100	PI2 BPSK	270	0	15.05	15.00	14.88			
100	QPSK	1	1	15.02	15.10	15.02			
100	QPSK	1	137	14.94	14.95	14.95	16.5	0.0	
100	QPSK	1	271	15.02	14.97	14.99			
100	QPSK	135	0	15.02	14.99	14.87			
100	QPSK	135	69	15.01	15.05	15.01	16.5	0.0	
100	QPSK	135	138	14.93	14.96	14.93			
100	QPSK	270	0	14.97	15.02	14.94	16.5	0.0	
100	16QAM	1	1	14.99	15.02	14.88	16.5	0.0	
100	64QAM	1	1	14.94	14.99	15.00	16.5	0.0	
100	256QAM	1	1	15.04	15.07	14.91	16.5	0.0	
Channel				506200	518598	526996	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2541	2592.99	2644.98	(dBm)	(dB)	
90	QPSK	1	1	15.01	14.94	14.85	16.5	0.0	
Channel				507204	518598	526968	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)	(dB)	
80	QPSK	1	1	14.97	14.95	14.94	16.5	0.0	
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2631.01	2592.99	2655	(dBm)	(dB)	
70	QPSK	1	1	15.05	15.00	14.99	16.5	0.0	
Channel				502200	518598	531996	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2522.00	2592.99	2669.98	(dBm)	(dB)	
60	QPSK	1	1	15.00	14.97	14.92	16.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2521.02	2592.99	2674.98	(dBm)	(dB)	
50	QPSK	1	1	15.07	14.97	14.90	16.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2516.01	2592.99	2670	(dBm)	(dB)	
40	QPSK	1	1	15.01	14.97	14.90	16.5	0.0	
Channel				502200	518598	535000	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2511	2592.99	2674.98	(dBm)	(dB)	
30	QPSK	1	1	15.04	15.07	14.90	16.5	0.0	
Channel				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)	(dB)	
20	QPSK	1	1	15.05	15.04	14.97	16.5	0.0	
Channel				500700	518598	536496	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2503.15	2592.99	2682.48	(dBm)	(dB)	
15	QPSK	1	1	14.95	15.08	14.96	16.5	0.0	
Channel				500202	518598	537000	Tune-up limit (dBm)	MFR (dB)	
Frequency (MHz)				2501.01	2592.99	2685	(dBm)	(dB)	
10	QPSK	1	1	14.90	14.90	14.95	16.5	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				506002	518598	528600		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	12.05	12.15	12.01		
100	PI2 BPSK	1	137	12.08	12.10	12.02	13.5	0.0
100	PI2 BPSK	1	271	11.98	12.12	12.06		
100	PI2 BPSK	135	0	12.06	12.10	12.00	13.5	0.0
100	PI2 BPSK	135	69	12.10	12.15	12.04	13.5	0.0
100	PI2 BPSK	135	138	11.97	12.13	12.10		
100	PI2 BPSK	270	0	11.97	12.10	12.08	13.5	0.0
100	QPSK	1	1	12.12	12.20	12.15		
100	QPSK	1	137	12.02	12.06	12.10	13.5	0.0
100	QPSK	1	271	11.97	12.17	12.03		
100	QPSK	135	0	12.03	12.12	12.10		
100	QPSK	135	69	12.05	12.18	12.11	13.5	0.0
100	QPSK	135	138	12.01	12.06	12.06		
100	QPSK	270	0	12.02	12.14	12.06	13.5	0.0
100	16QAM	1	1	12.00	12.15	12.12	13.5	0.0
100	64QAM	1	1	11.99	12.17	12.06	13.5	0.0
100	256QAM	1	1	12.05	12.10	12.05	13.5	0.0
Channel				506000	518598	528696	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	12.05	12.17	12.13	13.5	0.0
Channel				507204	518598	529268	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2646.99		
80	QPSK	1	1	12.06	12.12	12.10	13.5	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	12.03	12.18	12.13	13.5	0.0
Channel				502000	518598	531986	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	12.05	12.19	12.12	13.5	0.0
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	12.05	12.05	12.05	13.5	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	12.00	12.12	12.12	13.5	0.0
Channel				502000	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	12.07	12.17	12.07	13.5	0.0
Channel				507004	518598	535986	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	12.11	12.08	12.14	13.5	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	11.98	12.15	12.02	13.5	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	12.01	12.12	12.05	13.5	0.0

n41_Ant 5_HPUE								
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				506002	518598	528600		
Frequency (MHz)				2540.01	2592.99	2640		
100	PI2 BPSK	1	1	12.05	12.15	12.01		
100	PI2 BPSK	1	137	12.08	12.10	12.02	13.5	0.0
100	PI2 BPSK	1	271	11.98	12.12	12.06		
100	PI2 BPSK	135	0	12.06	12.10	12.00	13.5	0.0
100	PI2 BPSK	135	69	12.10	12.15	12.04	13.5	0.0
100	PI2 BPSK	135	138	11.97	12.13	12.10		
100	PI2 BPSK	270	0	11.97	12.10	12.08	13.5	0.0
100	QPSK	1	1	12.12	12.20	12.15		
100	QPSK	1	137	12.02	12.06	12.10	13.5	0.0
100	QPSK	1	271	11.97	12.17	12.03		
100	QPSK	135	0	12.03	12.12	12.10		
100	QPSK	135	69	12.05	12.18	12.11	13.5	0.0
100	QPSK	135	138	12.01	12.06	12.06		
100	QPSK	270	0	12.02	12.14	12.06	13.5	0.0
100	16QAM	1	1	12.00	12.15	12.12	13.5	0.0
100	64QAM	1	1	11.99	12.17	12.06	13.5	0.0
100	256QAM	1	1	12.05	12.10	12.05	13.5	0.0
Channel				506000	518598	528696	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	12.05	12.17	12.13	13.5	0.0
Channel				507204	518598	529268	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2646.99		
80	QPSK	1	1	12.06	12.12	12.10	13.5	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	12.03	12.18	12.13	13.5	0.0
Channel				502000	518598	531986	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	12.05	12.19	12.12	13.5	0.0
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	12.05	12.05	12.05	13.5	0.0
Channel				503002	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	12.00	12.12	12.12	13.5	0.0
Channel				502000	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	12.07	12.17	12.07	13.5	0.0
Channel				507004	518598	535986	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	12.11	12.08	12.14	13.5	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	11.98	12.15	12.02	13.5	0.0
Channel				500002	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	12.01	12.12	12.05	13.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	High Ch. Freq.		
Channel				506202	518598	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	20.97	21.01	20.91		
100	PI2 BPSK	1	137	20.97	21.05	20.98	22.5	0.0
100	PI2 BPSK	1	271	20.93	21.11	20.89		
100	PI2 BPSK	135	0	20.99	21.03	21.02	22.5	0.0
100	PI2 BPSK	135	69	20.94	21.02	20.94	22.5	0.0
100	PI2 BPSK	135	138	20.76	21.01	20.89	22.5	0.0
100	PI2 BPSK	270	0	20.94	21.02	20.96		
100	QPSK	1	1	21.10	21.18	21.08		
100	QPSK	1	137	20.90	21.15	20.75	22.5	0.0
100	QPSK	1	271	20.80	21.02	20.80		
100	QPSK	135	0	20.78	20.97	20.67		
100	QPSK	135	69	20.99	21.02	20.74	22.5	0.0
100	QPSK	135	138	20.83	20.95	20.73		
100	QPSK	270	0	20.80	20.94	20.92	22.5	0.0
100	16QAM	1	1	21.01	21.03	20.86	22.5	0.0
100	16QAM	1	1	20.97	20.41	20.31	22.0	0.5
100	256QAM	1	1	18.37	18.44	18.32	20.0	2.5
Channel				506200	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	20.95	21.07	20.80	22.5	0.0
Channel				507204	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	21.00	21.04	20.81	22.5	0.0
Channel				508200	518598	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.07	20.98	20.93	22.5	0.0
Channel				509200	518598	531966	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	20.98	21.13	20.99	22.5	0.0
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.09	21.11	20.90	22.5	0.0
Channel				505202	518598	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	21.00	20.99	20.92	22.5	0.0
Channel				506200	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	20.84	21.13	21.00	22.5	0.0
Channel				507204	518598	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.04	21.00	20.92	22.5	0.0
Channel				500700	518598	538498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2603.5	2592.99	2682.48		
15	QPSK	1	1	20.93	21.14	20.96	22.5	0.0
Channel				506202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2611.01	2592.99	2685		
10	QPSK	1	1	21.07	21.03	20.94	22.5	0.0



n41_Ant 6_HPUE								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq.	Upper Ch. Freq.	Highest Ch. Freq.		
Channel				506002	518998	526000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.84	22.74	22.67		
100	PI2 BPSK	1	137	22.71	22.78	22.80	24.5	0.0
100	PI2 BPSK	1	271	22.71	22.93	22.61		
100	PI2 BPSK	135	0	22.26	22.14	22.28	24.0	0.5
100	PI2 BPSK	135	69	22.68	22.72	22.63	24.5	0.0
100	PI2 BPSK	135	138	22.19	22.35	22.28	24.0	0.5
100	PI2 BPSK	270	0	22.26	22.19	22.28		
100	QPSK	1	1	22.81	22.88	22.85		
100	QPSK	1	137	22.74	22.87	22.51	24.5	0.0
100	QPSK	1	271	22.61	22.48	22.63		
100	QPSK	135	0	21.73	21.75	21.76		
100	QPSK	135	69	22.61	22.67	22.61	24.5	0.0
100	QPSK	135	138	21.62	21.71	21.71		
100	QPSK	270	0	21.65	21.68	21.63	23.5	1.0
100	16QAM	1	1	21.92	22.08	21.96	23.5	1.0
100	64QAM	1	1	20.48	20.64	20.48	22.0	2.5
100	256QAM	1	1	18.25	18.56	18.31	20.0	4.5
Channel				506000	518998	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
80	QPSK	1	1	22.83	22.88	22.79	24.5	0.0
Channel				507204	518998	526000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2648.98		
80	QPSK	1	1	22.90	22.97	22.84	24.5	0.0
Channel				508200	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.90	22.92	22.85	24.5	0.0
Channel				509200	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2658.98		
60	QPSK	1	1	22.90	22.95	22.81	24.5	0.0
Channel				504204	518998	532000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	22.89	22.94	22.83	24.5	0.0
Channel				505202	518998	536000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.89	22.94	22.79	24.5	0.0
Channel				506200	518998	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.85	22.97	22.85	24.5	0.0
Channel				507204	518998	535000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.89	22.97	22.83	24.5	0.0
Channel				507000	518998	538400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.84	22.97	22.80	24.5	0.0
Channel				506202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.84	22.91	22.79	24.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506202	518598	528600		
Frequency (MHz)				2541.01	2592.99	2643		
100	PI2 BPSK	1	1	18.97	19.07	19.02		
100	PI2 BPSK	1	137	18.98	19.04	19.00	20.0	0.0
100	PI2 BPSK	1	271	19.06	19.07	19.06		
100	PI2 BPSK	135	0	19.05	19.15	19.09	20.0	0.0
100	PI2 BPSK	135	69	19.09	19.05	19.05	20.0	0.0
100	PI2 BPSK	135	138	18.98	19.07	19.11	20.0	0.0
100	PI2 BPSK	270	0	19.09	19.09	19.13		
100	QPSK	1	1	19.12	19.19	19.15		
100	QPSK	1	137	19.01	19.09	19.09	20.0	0.0
100	QPSK	1	271	19.05	19.11	19.12		
100	QPSK	135	0	18.98	19.10	19.12		
100	QPSK	135	69	19.01	19.16	19.11	20.0	0.0
100	QPSK	135	138	19.00	19.12	19.05		
100	QPSK	270	0	19.06	19.10	19.09	20.0	0.0
100	16QAM	1	1	18.98	19.12	19.00	20.0	0.0
100	64QAM	1	1	18.98	19.07	19.06	20.0	0.0
100	256QAM	1	1	18.99	19.12	19.00	20.0	0.0
Channel				506200	518598	528696	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.00	19.10	19.08	20.0	0.0
Channel				507204	518598	529968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.07	19.13	19.10	20.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	19.07	19.10	19.08	20.0	0.0
Channel				502200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2522.02	2592.99	2629.98		
60	QPSK	1	1	19.10	19.10	19.00	20.0	0.0
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2629.98		
50	QPSK	1	1	19.10	19.13	19.05	20.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.05	19.04	19.07	20.0	0.0
Channel				502200	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.00	19.16	19.04	20.0	0.0
Channel				507204	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.08	19.10	19.06	20.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	19.00	19.09	19.12	20.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2682		
10	QPSK	1	1	19.07	19.14	19.07	20.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				506202	518598	528600		
Frequency (MHz)				2541.01	2592.99	2643		
100	PI2 BPSK	1	1	18.97	19.07	19.02		
100	PI2 BPSK	1	137	18.98	19.04	19.00	20.0	0.0
100	PI2 BPSK	1	271	19.06	19.07	19.06		
100	PI2 BPSK	135	0	19.05	19.15	19.09	20.0	0.0
100	PI2 BPSK	135	69	19.09	19.05	19.05	20.0	0.0
100	PI2 BPSK	135	138	18.98	19.07	19.11	20.0	0.0
100	PI2 BPSK	270	0	19.09	19.09	19.13		
100	QPSK	1	1	19.12	19.19	19.15		
100	QPSK	1	137	19.01	19.09	19.09	20.0	0.0
100	QPSK	1	271	19.05	19.11	19.12		
100	QPSK	135	0	18.98	19.10	19.12		
100	QPSK	135	69	19.01	19.16	19.11	20.0	0.0
100	QPSK	135	138	19.00	19.12	19.05		
100	QPSK	270	0	19.06	19.10	19.09	20.0	0.0
100	16QAM	1	1	18.98	19.12	19.00	20.0	0.0
100	64QAM	1	1	18.98	19.07	19.06	20.0	0.0
100	256QAM	1	1	18.99	19.12	19.00	20.0	0.0
Channel				506200	518598	528696	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.00	19.10	19.08	20.0	0.0
Channel				507204	518598	529968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	19.07	19.13	19.10	20.0	0.0
Channel				2631.01	2592.99	2655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2631.01	2592.99	2655		
70	QPSK	1	1	19.07	19.10	19.08	20.0	0.0
Channel				502200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2522.02	2592.99	2629.98		
60	QPSK	1	1	19.10	19.10	19.00	20.0	0.0
Channel				504204	518598	532968	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2629.98		
50	QPSK	1	1	19.10	19.13	19.05	20.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.05	19.04	19.07	20.0	0.0
Channel				502200	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.00	19.16	19.04	20.0	0.0
Channel				507204	518598	535996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	19.08	19.10	19.06	20.0	0.0
Channel				500700	518598	536496	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	19.00	19.09	19.12	20.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2682		
10	QPSK	1	1	19.07	19.14	19.07	20.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				636000	641666	645332		
Frequency (MHz)				3374	3624.99	3679.98		
40	PI2 BPSK	1	1	14.23	14.40	14.24		
40	PI2 BPSK	1	53	14.26	14.31	14.32	15.5	0.0
40	PI2 BPSK	1	104	14.36	14.38	14.34		
40	PI2 BPSK	50	0	14.36	14.38	14.32	15.5	0.0
40	PI2 BPSK	50	26	14.30	14.28	14.28	15.5	0.0
40	PI2 BPSK	50	56	14.33	14.39	14.33		
40	PI2 BPSK	100	0	14.23	14.40	14.38	15.5	0.0
40	QPSK	1	1	14.30	14.42	14.30		
40	QPSK	1	53	14.26	14.33	14.31	15.5	0.0
40	QPSK	1	104	14.30	14.33	14.38		
40	QPSK	50	0	14.32	14.36	14.33		
40	QPSK	50	26	14.36	14.38	14.32	15.5	0.0
40	QPSK	50	56	14.29	14.31	14.30		
40	QPSK	100	0	14.27	14.32	14.30	15.5	0.0
40	16QAM	1	1	14.29	14.30	14.31	15.5	0.0
40	64QAM	1	1	14.34	14.32	14.30	15.5	0.0
40	256QAM	1	1	14.32	14.30	14.37	15.5	0.0
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655.02	3624.99	3684.99		
30	QPSK	1	1	14.25	14.34	14.32	15.5	0.0
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3660.01	3624.99	3690		
20	QPSK	1	1	14.35	14.41	14.38	15.5	0.0
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3624.99	3694.98		
10	QPSK	1	1	14.34	14.27	14.31	15.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				636000	641666	645332		
Frequency (MHz)				3374	3624.99	3679.98		
40	PI2 BPSK	1	1	12.12	12.09	12.05		
40	PI2 BPSK	1	53	12.08	12.12	12.12	13.5	0.0
40	PI2 BPSK	1	104	12.02	12.15	12.16		
40	PI2 BPSK	50	0	12.04	12.17	12.15	13.5	0.0
40	PI2 BPSK	50	26	12.01	12.07	12.12	13.5	0.0
40	PI2 BPSK	50	56	12.06	12.13	12.10		
40	PI2 BPSK	100	0	12.11	12.09	12.13	13.5	0.0
40	QPSK	1	1	12.15	12.20	12.19		
40	QPSK	1	53	12.05	12.14	12.17	13.5	0.0
40	QPSK	1	104	12.10	12.18	12.16		
40	QPSK	50	0	12.11	12.13	12.09		
40	QPSK	50	26	12.11	12.15	12.14	13.5	0.0
40	QPSK	50	56	12.00	12.12	12.13		
40	QPSK	100	0	12.10	12.13	12.12	13.5	0.0
40	16QAM	1	1	12.11	12.07	12.08	13.5	0.0
40	64QAM	1	1	12.11	12.13	12.14	13.5	0.0
40	256QAM	1	1	12.04	12.13	12.15	13.5	0.0
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655.02	3624.99	3684.99		
30	QPSK	1	1	12.11	12.17	12.07	13.5	0.0
Channel				637234	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3660.01	3624.99	3690		
20	QPSK	1	1	12.15	12.17	12.06	13.5	0.0
Channel				637000	641666	645332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3655	3624.99	3694.98		
10	QPSK	1	1	12.02	12.10	12.04	13.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3270	323.99	329.98	
40	Pl2 BPSK	1	1	15.79	15.93	15.94	17.0
40	Pl2 BPSK	1	53	15.84	15.85	15.86	0.0
40	Pl2 BPSK	1	104	15.81	15.95	15.80	0.0
40	Pl2 BPSK	50	0	15.81	15.86	15.94	17.0
40	Pl2 BPSK	50	26	15.96	15.98	15.94	0.0
40	Pl2 BPSK	50	56	15.82	15.92	15.80	0.0
40	Pl2 BPSK	100	0	15.88	15.94	15.89	17.0
40	QPSK	1	1	15.93	16.00	15.99	0.0
40	QPSK	1	53	15.98	15.93	15.90	17.0
40	QPSK	1	104	15.84	15.99	15.88	0.0
40	QPSK	50	0	15.90	15.94	15.82	0.0
40	QPSK	50	26	15.96	15.97	15.94	17.0
40	QPSK	50	56	15.91	15.94	15.83	0.0
40	QPSK	100	0	15.87	15.95	15.89	0.0
40	16QAM	1	1	15.85	15.87	15.93	17.0
40	16QAM	1	1	15.86	15.86	15.82	0.0
40	16QAM	1	1	15.91	15.97	15.81	0.0
Channel				637668	641666	645668	
Frequency (MHz)				3565.02	3524.99	3584.99	
30	QPSK	1	1	15.84	15.98	15.94	17.0
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3524.99	3590	
20	QPSK	1	1	15.84	15.99	15.83	0.0
Channel				635000	641666	645332	
Frequency (MHz)				3365	3524.99	3594.98	
10	QPSK	1	1	15.84	15.94	15.93	17.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	MPR (dB)
Channel				636000	641666	645332	
Frequency (MHz)				3270	323.99	329.98	
40	Pl2 BPSK	1	1	11.85	11.95	11.99	13.0
40	Pl2 BPSK	1	53	11.79	11.86	11.91	0.0
40	Pl2 BPSK	1	104	11.86	11.87	11.87	0.0
40	Pl2 BPSK	50	0	11.87	11.85	11.87	13.0
40	Pl2 BPSK	50	26	11.92	11.98	11.82	0.0
40	Pl2 BPSK	50	56	11.82	11.97	11.88	0.0
40	Pl2 BPSK	100	0	11.80	11.95	11.84	13.0
40	QPSK	1	1	11.91	12.00	11.96	0.0
40	QPSK	1	53	11.81	11.97	11.90	13.0
40	QPSK	1	104	11.79	11.95	11.89	0.0
40	QPSK	50	0	11.88	11.90	11.83	0.0
40	QPSK	50	26	11.91	11.97	11.87	13.0
40	QPSK	50	56	11.82	11.94	11.84	0.0
40	QPSK	100	0	11.89	11.94	11.86	13.0
40	16QAM	1	1	11.91	11.86	11.94	0.0
40	16QAM	1	1	11.82	11.89	11.86	13.0
40	16QAM	1	1	11.92	11.94	11.88	0.0
Channel				637668	641666	645668	
Frequency (MHz)				3565.02	3524.99	3584.99	
30	QPSK	1	1	11.78	11.99	11.90	13.0
Channel				637334	641666	646000	
Frequency (MHz)				3560.01	3524.99	3590	
20	QPSK	1	1	11.80	11.90	11.80	0.0
Channel				635000	641666	645332	
Frequency (MHz)				3365	3524.99	3594.98	
10	QPSK	1	1	11.92	11.86	11.94	13.0



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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)				3750	3840	3930		
100	PI2 BPSK	1	1	12.55	12.74	12.81		
100	PI2 BPSK	1	137	12.80	12.72	12.66	13.5	0.0
100	PI2 BPSK	1	271	12.53	12.72	12.65		
100	PI2 BPSK	135	0	12.83	12.71	12.69	13.5	0.0
100	PI2 BPSK	135	69	12.57	12.65	12.68	13.5	0.0
100	PI2 BPSK	135	138	12.87	12.62	12.62	13.5	0.0
100	PI2 BPSK	270	0	12.85	12.83	12.69		
100	QPSK	1	1	12.56	12.75	12.70		
100	QPSK	1	137	12.54	12.64	12.56	13.5	0.0
100	QPSK	1	271	12.58	12.67	12.62		
100	QPSK	135	0	12.82	12.67	12.65		
100	QPSK	135	69	12.57	12.66	12.67	13.5	0.0
100	QPSK	135	138	12.84	12.61	12.60		
100	QPSK	270	0	12.53	12.72	12.55	13.5	0.0
100	16QAM	1	1	12.61	12.66	12.69	13.5	0.0
100	16QAM	1	1	12.61	12.62	12.61	13.5	0.0
100	16QAM	1	1	12.61	12.67	12.57	13.5	0.0
Channel								
Frequency (MHz)				68966	69000	69032	Tune-up limit (dBm)	MPR (dB)
99	QPSK	1	1	12.61	12.73	12.56	13.5	0.0
Frequency (MHz)				3743.02	3840	3934.98	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	12.61	12.73	12.56	13.5	0.0
Frequency (MHz)				649334	65000	65066	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	12.56	12.61	12.66	13.5	0.0
Frequency (MHz)				3743.01	3840	3934.98	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	12.54	12.62	12.61	13.5	0.0
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	12.54	12.62	12.61	13.5	0.0
Frequency (MHz)				64966	65000	65032	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	12.59	12.68	12.55	13.5	0.0
Frequency (MHz)				648334	65000	65066	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	12.60	12.71	12.56	13.5	0.0
Frequency (MHz)				648000	65000	65000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	12.62	12.70	12.59	13.5	0.0
Frequency (MHz)				3710.02	3840	3944.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	12.53	12.68	12.68	13.5	0.0
Frequency (MHz)				3710.01	3840	3949.98	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	12.54	12.72	12.64	13.5	0.0
Frequency (MHz)				647168	65000	648432	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	12.67	12.80	12.65	13.5	0.0
Frequency (MHz)				647000	65000	65000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	12.63	12.69	12.68	13.5	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)				3750	3840	3930		
100	PI2 BPSK	1	1	12.55	12.74	12.81		
100	PI2 BPSK	1	137	12.80	12.72	12.66	13.5	0.0
100	PI2 BPSK	1	271	12.53	12.72	12.65		
100	PI2 BPSK	135	0	12.83	12.71	12.69	13.5	0.0
100	PI2 BPSK	135	69	12.57	12.65	12.68	13.5	0.0
100	PI2 BPSK	135	138	12.87	12.62	12.62	13.5	0.0
100	PI2 BPSK	270	0	12.85	12.83	12.69		
100	QPSK	1	1	12.56	12.75	12.70		
100	QPSK	1	137	12.54	12.64	12.56	13.5	0.0
100	QPSK	1	271	12.58	12.67	12.62		
100	QPSK	135	0	12.82	12.67	12.65		
100	QPSK	135	69	12.57	12.66	12.67	13.5	0.0
100	QPSK	135	138	12.84	12.61	12.60		
100	QPSK	270	0	12.53	12.65	12.55	13.5	0.0
100	16QAM	1	1	12.61	12.66	12.69	13.5	0.0
100	16QAM	1	1	12.61	12.62	12.61	13.5	0.0
100	16QAM	1	1	12.61	12.67	12.57	13.5	0.0
Channel								
Frequency (MHz)				68966	69000	69032	Tune-up limit (dBm)	MPR (dB)
99	QPSK	1	1	12.61	12.73	12.56	13.5	0.0
Frequency (MHz)				3743.02	3840	3934.98	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	12.61	12.73	12.56	13.5	0.0
Frequency (MHz)				649334	65000	65066	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	12.56	12.61	12.66	13.5	0.0
Frequency (MHz)				3743.01	3840	3934.98	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	12.54	12.62	12.61	13.5	0.0
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	12.54	12.62	12.61	13.5	0.0
Frequency (MHz)				64966	65000	65032	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	12.59	12.68	12.55	13.5	0.0
Frequency (MHz)				648334	65000	65066	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	12.60	12.71	12.56	13.5	0.0
Frequency (MHz)				648000	65000	65000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	12.62	12.70	12.59	13.5	0.0
Frequency (MHz)				3710.02	3840	3944.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	12.53	12.68	12.68	13.5	0.0
Frequency (MHz)				3710.01	3840	3949.98	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	12.54	12.72	12.64	13.5	0.0
Frequency (MHz)				647168	65000	648432	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	12.67	12.80	12.65	13.5	0.0
Frequency (MHz)				647000	65000	65000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	12.63	12.69	12.68	13.5	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)						3499.98		
100	PI2 BPSK	1	1			12.60		
100	PI2 BPSK	1	137			12.51	13.5	0.0
100	PI2 BPSK	1	271			12.49		
100	PI2 BPSK	135	0			12.59	13.5	0.0
100	PI2 BPSK	135	69			12.49	13.5	0.0
100	PI2 BPSK	135	138			12.47	13.5	0.0
100	PI2 BPSK	270	0			12.56		
100	QPSK	1	1			12.62		
100	QPSK	1	137			12.53	13.5	0.0
100	QPSK	1	271			12.54		
100	QPSK	135	0			12.52		
100	QPSK	135	69			12.57	13.5	0.0
100	QPSK	135	138			12.49	13.5	0.0
100	QPSK	270	0			12.48	13.5	0.0
100	16QAM	1	1			12.48	13.5	0.0
100	16QAM	1	1			12.51	13.5	0.0
100	16QAM	1	1			12.50	13.5	0.0
Channel								
Frequency (MHz)				63500	63532	63566	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	12.53	12.40	12.50	13.5	0.0
Frequency (MHz)				63098	63532	63500	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	12.54	12.51	12.44	13.5	0.0
Frequency (MHz)				3490.02	3499.98	3510	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	12.49	12.47	12.49	13.5	0.0
Frequency (MHz)				632000	63332	63496	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	12.58	12.52	12.50	13.5	0.0
Frequency (MHz)				631098	63532	63500	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	12.52	12.50	12.56	13.5	0.0
Frequency (MHz)				631334	63532	63532	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	12.50	12.55	12.48	13.5	0.0
Frequency (MHz)				3480	3499.98	3510	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	12.59	12.55	12.49	13.5	0.0
Frequency (MHz)				63098	63532	63500	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	12.56	12.50	12.58	13.5	0.0
Frequency (MHz)				630900	63532	63616	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	12.54	12.59	12.54	13.5	0.0
Frequency (MHz)				63534	63532	63632	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	12.56	12.40	12.53	13.5	0.0



Par27Q n77_Ant 4_HPUE									
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	Pl2 BPSK	1	1	3499.98					
100	Pl2 BPSK	1	137	12.60					
100	Pl2 BPSK	1	271	12.51			13.5	0.0	
100	Pl2 BPSK	135	0	12.59			13.5	0.0	
100	Pl2 BPSK	135	69	12.48			13.5	0.0	
100	Pl2 BPSK	135	138	12.47			13.5	0.0	
100	Pl2 BPSK	270	0	12.56			13.5	0.0	
100	QPSK	1	1	12.62					
100	QPSK	1	137	12.53			13.5	0.0	
100	QPSK	1	271	12.54					
100	QPSK	135	0	12.52					
100	QPSK	135	69	12.57			13.5	0.0	
100	QPSK	135	138	12.48			13.5	0.0	
100	QPSK	270	0	12.48			13.5	0.0	
100	16QAM	1	1	12.48			13.5	0.0	
100	64QAM	1	1	12.51			13.5	0.0	
100	256QAM	1	1	12.59			13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.53	12.48	12.50	13.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.54	12.51	12.48	13.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.49	12.47	12.49	13.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.58	12.62	12.50	13.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.52	12.58	12.56	13.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	12.55	12.55	12.48	13.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.59	12.55	12.49	13.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.56	12.50	12.58	13.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	12.54	12.59	12.54	13.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.58	12.48	12.53	13.5	0.0	

Par270 n77_Ant 7									
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	Pl2 BPSK	1	1	3709	3340	3293			
100	Pl2 BPSK	1	137	13.04	13.06	12.91			
100	Pl2 BPSK	1	271	12.89	13.02	12.97	14.0	0.0	
100	Pl2 BPSK	135	0	13.02	13.06	13.00	14.0	0.0	
100	Pl2 BPSK	135	69	12.98	13.02	12.89	14.0	0.0	
100	Pl2 BPSK	135	138	12.90	12.98	12.88	14.0	0.0	
100	Pl2 BPSK	270	0	12.81	12.95	12.91	14.0	0.0	
100	QPSK	1	1	13.01	13.10	13.01			
100	QPSK	1	137	12.91	13.06	12.97	14.0	0.0	
100	QPSK	1	271	13.00	13.01	12.92			
100	QPSK	135	0	13.00	13.03	12.91			
100	QPSK	135	69	12.95	12.98	12.87	14.0	0.0	
100	QPSK	135	138	12.93	12.95	12.86	14.0	0.0	
100	QPSK	270	0	12.85	12.99	12.84	14.0	0.0	
100	16QAM	1	1	12.95	12.96	12.86	14.0	0.0	
100	64QAM	1	1	12.99	13.04	12.90	14.0	0.0	
100	256QAM	1	1	12.92	12.97	12.89	14.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.06	13.07	13.07	14.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.96	13.06	12.95	14.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.04	12.99	13.03	14.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.98	13.09	13.09	14.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.05	13.05	12.97	14.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.00	13.04	12.99	14.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.04	13.08	13.09	14.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.96	13.08	12.99	14.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.02	13.09	12.97	14.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.96	13.01	12.95	14.0	0.0	

Par270 n77_Ant 7_HPUE									
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	Pl2 BPSK	1	1	3709	3340	3293			
100	Pl2 BPSK	1	137	13.04	13.06	12.91			
100	Pl2 BPSK	1	271	12.89	13.02	12.97	14.0	0.0	
100	Pl2 BPSK	135	0	13.02	13.06	13.00	14.0	0.0	
100	Pl2 BPSK	135	69	12.98	13.02	12.89	14.0	0.0	
100	Pl2 BPSK	135	138	12.90	12.98	12.88	14.0	0.0	
100	Pl2 BPSK	270	0	12.81	12.95	12.91	14.0	0.0	
100	QPSK	1	1	13.01	13.10	13.01			
100	QPSK	1	137	12.91	13.06	12.97	14.0	0.0	
100	QPSK	1	271	13.00	13.01	12.92			
100	QPSK	135	0	13.00	13.03	12.91			
100	QPSK	135	69	12.95	12.98	12.87	14.0	0.0	
100	QPSK	135	138	12.93	12.95	12.86	14.0	0.0	
100	QPSK	270	0	12.85	12.99	12.84	14.0	0.0	
100	16QAM	1	1	12.95	12.96	12.86	14.0	0.0	
100	64QAM	1	1	12.99	13.04	12.90	14.0	0.0	
100	256QAM	1	1	12.92	12.97	12.89	14.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	13.09	13.07	13.07	14.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.96	13.06	12.95	14.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	13.04	12.99	13.03	14.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.98	13.09	13.09	14.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.05	13.05	12.97	14.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	13.00	13.04	12.99	14.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	13.04	13.08	13.09	14.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.96	13.08	12.99	14.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	13.02	13.09	12.97	14.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	12.96	13.01	12.95	14.0	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)								
100	PI2 BPSK	1	1	12.72	3499.98			
100	PI2 BPSK	1	137	12.87			14.0	0.0
100	PI2 BPSK	1	271	12.87				
100	PI2 BPSK	135	0	12.73			14.0	0.0
100	PI2 BPSK	135	69	12.71			14.0	0.0
100	PI2 BPSK	135	138	12.71			14.0	0.0
100	PI2 BPSK	270	0	12.85			14.0	0.0
100	QPSK	1	1	12.75				
100	QPSK	1	137	12.90			14.0	0.0
100	QPSK	1	271	12.72				
100	QPSK	135	0	12.83				
100	QPSK	135	69	12.72			14.0	0.0
100	QPSK	135	138	12.69				
100	QPSK	270	0	12.69			14.0	0.0
100	16QAM	1	1	12.88			14.0	0.0
100	16QAM	1	1	12.83			14.0	0.0
100	256QAM	1	1	12.85			14.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.83	6333.02	6336.00	14.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.69	3499.98	3510	14.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	12.72	12.87	12.72	14.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.62	12.73	12.85	14.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	12.91	12.89	12.85	14.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	12.08	12.71	12.72	14.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	12.71	12.88	12.74	14.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.70	12.63	12.83	14.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	12.80	12.72	12.88	14.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	12.62	12.87	12.72	14.0	0.0

Par27Q n77_Ant 7_HPUE

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	12.72	3499.98			
100	PI2 BPSK	1	137	12.82			14.0	0.0
100	PI2 BPSK	1	271	12.87				
100	PI2 BPSK	135	0	12.73			14.0	0.0
100	PI2 BPSK	135	69	12.81			14.0	0.0
100	PI2 BPSK	135	138	12.71			14.0	0.0
100	PI2 BPSK	270	0	12.85			14.0	0.0
100	QPSK	1	1	12.75				
100	QPSK	1	137	12.92			14.0	0.0
100	QPSK	1	271	12.72				
100	QPSK	135	0	12.83				
100	QPSK	135	69	12.72			14.0	0.0
100	QPSK	135	138	12.69				
100	QPSK	270	0	12.69			14.0	0.0
100	16QAM	1	1	12.88			14.0	0.0
100	16QAM	1	1	12.83			14.0	0.0
100	256QAM	1	1	12.85			14.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.83	6333.02	6336.00	14.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.49	12.83	12.88	14.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	12.72	12.87	12.72	14.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.62	12.73	12.85	14.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	12.81	12.89	12.85	14.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	12.08	12.71	12.72	14.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	12.71	12.88	12.74	14.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.70	12.63	12.83	14.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	12.80	12.72	12.88	14.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	12.62	12.87	12.72	14.0	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)								
100	PI2 BPSK	1	1	14.89	3750	3750		
100	PI2 BPSK	1	137	14.80	14.89	14.84	16.5	0.0
100	PI2 BPSK	1	271	14.80	14.91	14.88		
100	PI2 BPSK	135	0	14.82	14.96	14.90	16.5	0.0
100	PI2 BPSK	135	69	14.91	14.88	14.91	16.5	0.0
100	PI2 BPSK	135	138	14.80	14.96	14.84	16.5	0.0
100	PI2 BPSK	270	0	14.78	14.98	14.90	16.5	0.0
100	QPSK	1	1	14.92	15.00	14.96		
100	QPSK	1	137	14.82	14.85	14.83	16.5	0.0
100	QPSK	1	271	14.78	14.99	14.81		
100	QPSK	135	0	14.80	14.92	14.85		
100	QPSK	135	69	14.88	14.93	14.90	16.5	0.0
100	QPSK	135	138	14.85	14.90	14.79		
100	QPSK	270	0	14.82	14.90	14.85	16.5	0.0
100	16QAM	1	1	14.91	14.88	14.85	16.5	0.0
100	16QAM	1	1	14.80	14.92	14.92	16.5	0.0
100	256QAM	1	1	14.84	14.96	14.99	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.80	14.89	14.84	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.80	14.95	14.90	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.79	14.89	14.87	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.80	14.89	14.83	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.78	14.87	14.85	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.81	14.88	14.84	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.85	14.98	14.92	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.82	14.89	14.83	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.80	14.96	14.83	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.81	14.89	14.91	16.5	0.0



Par270 n77_Ant 8_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq	Power Middle Ch. F/Freq	Power High Ch. F/Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.86	14.93	14.92			
100	PI2 BPSK	1	137	14.80	14.88	14.81	16.5	0.0	
100	PI2 BPSK	1	271	14.80	14.91	14.86			
100	PI2 BPSK	135	0	14.82	14.96	14.90	16.5	0.0	
100	PI2 BPSK	135	69	14.91	14.88	14.91	16.5	0.0	
100	PI2 BPSK	135	138	14.80	14.96	14.84	16.5	0.0	
100	PI2 BPSK	270	0	14.78	14.98	14.90	16.5	0.0	
100	QPSK	1	1	14.92	15.00	14.96			
100	QPSK	1	137	14.82	14.95	14.83	16.5	0.0	
100	QPSK	1	271	14.78	14.99	14.81			
100	QPSK	135	0	14.80	14.92	14.85			
100	QPSK	135	69	14.88	14.83	14.96	16.5	0.0	
100	QPSK	135	138	14.85	14.90	14.79	16.5	0.0	
100	QPSK	270	0	14.82	14.90	14.85	16.5	0.0	
100	16QAM	1	1	14.91	14.88	14.85	16.5	0.0	
100	64QAM	1	1	14.90	14.92	14.92	16.5	0.0	
100	256QAM	1	1	14.84	14.96	14.89	16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.86	14.86	14.84	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.90	14.95	14.90	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.79	14.89	14.87	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.80	14.89	14.83	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.78	14.87	14.85	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.81	14.88	14.84	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.88	14.98	14.92	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.82	14.89	14.83	16.5	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.80	14.96	14.83	16.5	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.81	14.89	14.81	16.5	0.0	

Par27Q n77_Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq	Power Middle Ch. F/Freq	Power High Ch. F/Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.83		14.83			
100	PI2 BPSK	1	137	14.80		14.80	16.5	0.0	
100	PI2 BPSK	1	271	14.81		14.81			
100	PI2 BPSK	135	0	14.81		14.81	16.5	0.0	
100	PI2 BPSK	135	69	14.85		14.85	16.5	0.0	
100	PI2 BPSK	135	138	14.81		14.81	16.5	0.0	
100	PI2 BPSK	270	0	14.85		14.85	16.5	0.0	
100	QPSK	1	1	14.95		14.95			
100	QPSK	1	137	14.85		14.85	16.5	0.0	
100	QPSK	1	271	14.87		14.87			
100	QPSK	135	0	14.82		14.82			
100	QPSK	135	69	14.86		14.86	16.5	0.0	
100	QPSK	135	138	14.84		14.84	16.5	0.0	
100	QPSK	270	0	14.87		14.87	16.5	0.0	
100	16QAM	1	1	14.92		14.92	16.5	0.0	
100	64QAM	1	1	14.93		14.93	16.5	0.0	
100	256QAM	1	1	14.93		14.93	16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.80		14.80	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.82		14.82	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.83		14.83	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.82		14.81	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.76		14.88	14.70	16.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.80		14.84	14.81	16.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.87		14.81	14.90	16.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.82		14.83	14.79	16.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.83		14.92	14.89	16.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.82		14.90	14.83	16.5	0.0

Par27Q n77_Ant 8_HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq	Power Middle Ch. F/Freq	Power High Ch. F/Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	14.83		14.83			
100	PI2 BPSK	1	137	14.80		14.80	16.5	0.0	
100	PI2 BPSK	1	271	14.81		14.81			
100	PI2 BPSK	135	0	14.81		14.81	16.5	0.0	
100	PI2 BPSK	135	69	14.85		14.85	16.5	0.0	
100	PI2 BPSK	135	138	14.81		14.81	16.5	0.0	
100	PI2 BPSK	270	0	14.85		14.85	16.5	0.0	
100	QPSK	1	1	14.95		14.95			
100	QPSK	1	137	14.85		14.85	16.5	0.0	
100	QPSK	1	271	14.87		14.87			
100	QPSK	135	0	14.82		14.82			
100	QPSK	135	69	14.86		14.86	16.5	0.0	
100	QPSK	135	138	14.84		14.84	16.5	0.0	
100	QPSK	270	0	14.87		14.87	16.5	0.0	
100	16QAM	1	1	14.92		14.92	16.5	0.0	
100	64QAM	1	1	14.93		14.93	16.5	0.0	
100	256QAM	1	1	14.93		14.93	16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	14.80		14.80	14.70	16.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	14.82		14.82	14.81	16.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.83		14.83	14.83	16.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	14.82		14.81	14.81	16.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	14.76		14.88	14.79	16.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.80		14.84	14.81	16.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.87		14.81	14.90	16.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.82		14.83	14.79	16.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	14.83		14.92	14.89	16.5	0.0
Channel									
Frequency (MHz)									
10	QPSK	1	1	14.82		14.90	14.83	16.5	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)				3750	3840	3930		
100	PI2 BPSK	1	1	7.60	7.68	7.61		
100	PI2 BPSK	1	137	7.65	7.58	7.52	9.0	0.0
100	PI2 BPSK	1	271	7.65	7.66	7.58		
100	PI2 BPSK	135	0	7.55	7.66	7.83	9.0	0.0
100	PI2 BPSK	135	69	7.64	7.56	7.62	9.0	0.0
100	PI2 BPSK	135	138	7.57	7.66	7.64	9.0	0.0
100	PI2 BPSK	270	0	7.65	7.68	7.64		
100	QPSK	1	1	7.66	7.70	7.65		
100	QPSK	1	137	7.66	7.67	7.62	9.0	0.0
100	QPSK	1	271	7.66	7.64	7.60		
100	QPSK	135	0	7.57	7.60	7.62		
100	QPSK	135	69	7.56	7.66	7.64	9.0	0.0
100	QPSK	135	138	7.55	7.64	7.63	9.0	0.0
100	QPSK	270	0	7.61	7.62	7.58	9.0	0.0
100	16QAM	1	1	7.64	7.58	7.55	9.0	0.0
100	64QAM	1	1	7.56	7.61	7.55	9.0	0.0
100	256QAM	1	1	7.61	7.66	7.56	9.0	0.0
Channel								
Frequency (MHz)				648968	656000	663032	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	7.54	7.58	7.56	9.0	0.0
Frequency (MHz)				3743.02	3840	3934.98	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	7.62	7.55	7.62	9.0	0.0
Frequency (MHz)				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	7.62	7.55	7.62	9.0	0.0
Frequency (MHz)				3740.01	3840	3939.99	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	7.59	7.64	7.58	9.0	0.0
Frequency (MHz)				648968	656000	663332	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	7.59	7.64	7.58	9.0	0.0
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	7.63	7.58	7.59	9.0	0.0
Frequency (MHz)				648334	656000	663998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	7.59	7.56	7.56	9.0	0.0
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	7.72	7.62	7.62	9.0	0.0
Frequency (MHz)				3725.01	3840	3954.99	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	7.62	7.55	7.62	9.0	0.0
Frequency (MHz)				3716.02	3840.00	3964.98	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	7.64	7.69	7.58	9.0	0.0
Frequency (MHz)				647324	656000	664668	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	7.57	7.63	7.59	9.0	0.0
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	7.66	7.68	7.60	9.0	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)				3750	3840	3930		
100	PI2 BPSK	1	1	7.60	7.68	7.61		
100	PI2 BPSK	1	137	7.65	7.58	7.52	9.0	0.0
100	PI2 BPSK	1	271	7.65	7.66	7.58		
100	PI2 BPSK	135	0	7.55	7.66	7.83	9.0	0.0
100	PI2 BPSK	135	69	7.64	7.56	7.62	9.0	0.0
100	PI2 BPSK	135	138	7.57	7.66	7.64	9.0	0.0
100	PI2 BPSK	270	0	7.65	7.68	7.64		
100	QPSK	1	1	7.66	7.70	7.65		
100	QPSK	1	137	7.66	7.67	7.62	9.0	0.0
100	QPSK	1	271	7.66	7.64	7.60		
100	QPSK	135	0	7.57	7.60	7.62		
100	QPSK	135	69	7.56	7.66	7.64	9.0	0.0
100	QPSK	135	138	7.55	7.64	7.63	9.0	0.0
100	QPSK	270	0	7.61	7.62	7.58	9.0	0.0
100	16QAM	1	1	7.64	7.58	7.55	9.0	0.0
100	64QAM	1	1	7.56	7.61	7.55	9.0	0.0
100	256QAM	1	1	7.61	7.66	7.56	9.0	0.0
Channel								
Frequency (MHz)				648968	656000	663332	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	7.54	7.58	7.56	9.0	0.0
Frequency (MHz)				3743.02	3840	3934.98	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	7.62	7.55	7.62	9.0	0.0
Frequency (MHz)				648334	656000	663998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	7.62	7.55	7.62	9.0	0.0
Frequency (MHz)				3740.01	3840	3939.99	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	7.59	7.64	7.58	9.0	0.0
Frequency (MHz)				648968	656000	663332	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	7.59	7.64	7.58	9.0	0.0
Frequency (MHz)				3735	3840	3945	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	7.63	7.58	7.59	9.0	0.0
Frequency (MHz)				648334	656000	663998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	7.59	7.56	7.56	9.0	0.0
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	7.72	7.62	7.62	9.0	0.0
Frequency (MHz)				3725.01	3840	3954.99	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	7.62	7.55	7.62	9.0	0.0
Frequency (MHz)				3716.02	3840.00	3964.98	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	7.64	7.69	7.58	9.0	0.0
Frequency (MHz)				647324	656000	664668	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	7.57	7.63	7.59	9.0	0.0
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	7.66	7.68	7.60	9.0	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)				3498.98				
100	PI2 BPSK	1	1	7.60				
100	PI2 BPSK	1	137	7.67			9.0	0.0
100	PI2 BPSK	1	271	7.61				
100	PI2 BPSK	135	0	7.60			9.0	0.0
100	PI2 BPSK	135	69	7.65			9.0	0.0
100	PI2 BPSK	135	138	7.57			9.0	0.0
100	PI2 BPSK	270	0	7.65				
100	QPSK	1	1	7.68				
100	QPSK	1	137	7.58			9.0	0.0
100	QPSK	1	271	7.61				
100	QPSK	135	0	7.57				
100	QPSK	135	69	7.63			9.0	0.0
100	QPSK	135	138	7.57			9.0	0.0
100	QPSK	270	0	7.60			9.0	0.0
100	16QAM	1	1	7.59			9.0	0.0
100	64QAM	1	1	7.67			9.0	0.0
100	256QAM	1	1	7.65			9.0	0.0
Channel								
Frequency (MHz)				635000	633332	636666	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	7.63	7.65	7.68	9.0	0.0
Frequency (MHz)				632000	633332	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	7.62	7.65	7.63	9.0	0.0
Frequency (MHz)				3485.01	3498.98	3510	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	7.59	7.63	7.62	9.0	0.0
Frequency (MHz)				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	7.59	7.63	7.62	9.0	0.0
Frequency (MHz)				3480.01	3498.98	3514.98	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	7.61	7.66	7.64	9.0	0.0
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	7.62	7.57	7.64	9.0	0.0
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	7.60	7.63	7.63	9.0	0.0
Frequency (MHz)				3475.01	3498.98	3520.98	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	7.66	7.63	7.60	9.0	0.0
Frequency (MHz)				630666	633332	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	7.57	7.53	7.62	9.0	0.0
Frequency (MHz)				630000	633332	636332	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	7.54	7.53	7.56	9.0	0.0
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	7.55	7.64	7.61	9.0	0.0



Par27Q n77_Ant 10_HPUE

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	3495	3498	3501		
100	PI2 BPSK	1	137	748	751	754	9.0	0.0
100	PI2 BPSK	1	271	761	764	767		
100	PI2 BPSK	136	0	780	783	786	9.0	0.0
100	PI2 BPSK	136	69	795	798	801	9.0	0.0
100	PI2 BPSK	136	138	757	760	763	9.0	0.0
100	PI2 BPSK	270	0	785	788	791	9.0	0.0
100	QPSK	1	1	758	761	764	9.0	0.0
100	QPSK	1	137	758	761	764	9.0	0.0
100	QPSK	1	271	758	761	764	9.0	0.0
100	QPSK	136	0	757	760	763	9.0	0.0
100	QPSK	136	69	763	766	769	9.0	0.0
100	QPSK	136	138	757	760	763	9.0	0.0
100	QPSK	270	0	760	763	766	9.0	0.0
100	16QAM	1	1	759	762	765	9.0	0.0
100	16QAM	1	1	767	770	773	9.0	0.0
100	256QAM	1	1	765	768	771	9.0	0.0
Channel								
Frequency (MHz)								
63000				63000	63032	63066	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3495	3498	3501	9.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	752	755	758	9.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	759	763	767	9.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	781	786	794	9.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	752	757	764	9.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	758	763	769	9.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	758	763	769	9.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	757	763	769	9.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	754	763	769	9.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	755	764	761	9.0	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)								
100	PI2 BPSK	1	1	3750	3753	3756		
100	PI2 BPSK	1	137	1248	1251	1254	13.5	0.0
100	PI2 BPSK	1	271	1243	1246	1249		
100	PI2 BPSK	136	0	1239	1242	1245	13.5	0.0
100	PI2 BPSK	136	69	1241	1244	1247	13.5	0.0
100	PI2 BPSK	136	138	1245	1248	1251	13.5	0.0
100	PI2 BPSK	270	0	1248	1251	1254	13.5	0.0
100	QPSK	1	1	1248	1251	1254	13.5	0.0
100	QPSK	1	137	1238	1241	1244	13.5	0.0
100	QPSK	1	271	1238	1241	1244	13.5	0.0
100	QPSK	136	0	1245	1248	1251	13.5	0.0
100	QPSK	136	69	1248	1251	1254	13.5	0.0
100	QPSK	136	138	1238	1241	1244	13.5	0.0
100	QPSK	270	0	1245	1248	1251	13.5	0.0
100	16QAM	1	1	1235	1238	1241	13.5	0.0
100	16QAM	1	1	1246	1249	1252	13.5	0.0
100	256QAM	1	1	1238	1241	1244	13.5	0.0
Channel								
Frequency (MHz)								
64800				64800	65000	65032	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3745	3750	3754	13.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	1244	1246	1248	13.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	1244	1246	1248	13.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	1238	1240	1242	13.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	1235	1235	1243	13.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	1247	1249	1247	13.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	1240	1236	1248	13.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	1240	1242	1237	13.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	1238	1244	1243	13.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	1234	1240	1240	13.5	0.0

Par270 n78_Ant 4_HPUE

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	3750	3753	3756		
100	PI2 BPSK	1	137	1248	1251	1254	13.5	0.0
100	PI2 BPSK	1	271	1243	1246	1249		
100	PI2 BPSK	136	0	1239	1242	1245	13.5	0.0
100	PI2 BPSK	136	69	1241	1244	1247	13.5	0.0
100	PI2 BPSK	136	138	1245	1248	1251	13.5	0.0
100	PI2 BPSK	270	0	1248	1251	1254	13.5	0.0
100	QPSK	1	1	1248	1251	1254	13.5	0.0
100	QPSK	1	137	1238	1241	1244	13.5	0.0
100	QPSK	1	271	1238	1241	1244	13.5	0.0
100	QPSK	136	0	1245	1248	1251	13.5	0.0
100	QPSK	136	69	1248	1251	1254	13.5	0.0
100	QPSK	136	138	1238	1241	1244	13.5	0.0
100	QPSK	270	0	1245	1248	1251	13.5	0.0
100	16QAM	1	1	1235	1238	1241	13.5	0.0
100	16QAM	1	1	1246	1249	1252	13.5	0.0
100	256QAM	1	1	1238	1241	1244	13.5	0.0
Channel								
Frequency (MHz)								
64800				64800	65000	65032	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3745	3750	3754	13.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	1244	1246	1248	13.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	1244	1246	1248	13.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	1238	1240	1242	13.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	1235	1235	1243	13.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	1247	1249	1247	13.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	1240	1236	1248	13.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	1240	1242	1237	13.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	1238	1244	1243	13.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	1234	1240	1240	13.5	0.0



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Channel	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3495	3499.98	3504.96				
100 PI2 BPSK	1	1	1	13.5	0.0		
100 PI2 BPSK	1	137	12.48				
100 PI2 BPSK	1	271	12.48				
100 PI2 BPSK	135	0	12.41	13.5	0.0		
100 PI2 BPSK	135	69	12.54	13.5	0.0		
100 PI2 BPSK	135	138	12.42	13.5	0.0		
100 PI2 BPSK	270	0	12.41				
100 QPSK	1	1	12.56				
100 QPSK	1	137	12.45	13.5	0.0		
100 QPSK	1	271	12.42				
100 QPSK	135	0	12.44				
100 QPSK	135	69	12.52	13.5	0.0		
100 QPSK	135	138	12.51	13.5	0.0		
100 QPSK	270	0	12.43	13.5	0.0		
100 16QAM	1	1	12.46	13.5	0.0		
100 16QAM	1	1	12.44	13.5	0.0		
100 16QAM	1	1	12.52	13.5	0.0		
Channel	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
Channel	3495	3499.98	3504.96				
Frequency (MHz)	12.45	12.50	12.44	13.5	0.0		
Channel	632668	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3490.02	3499.98	3510				
80 QPSK	1	1	12.43	12.51	12.45	13.5	0.0
Channel	633334	633332	633332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3485.01	3499.98	3514.98				
70 QPSK	1	1	12.41	12.54	12.46	13.5	0.0
Channel	632000	633332	634666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3480	3499.98	3519.98				
60 QPSK	1	1	12.47	12.47	12.47	13.5	0.0
Channel	631668	633332	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3475.02	3499.98	3525				
50 QPSK	1	1	12.50	12.46	12.50	13.5	0.0
Channel	631334	633332	635332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3470.01	3499.98	3529.98				
40 QPSK	1	1	12.42	12.41	12.45	13.5	0.0
Channel	630998	633332	636000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3465	3499.98	3534.98				
30 QPSK	1	1	12.47	12.47	12.49	13.5	0.0
Channel	630668	633332	636332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3460.02	3499.98	3540				
20 QPSK	1	1	12.45	12.50	12.42	13.5	0.0
Channel	630300	633332	636168	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3455.5	3499.98	3542.68				
15 QPSK	1	1	12.48	12.48	12.42	13.5	0.0
Channel	630334	633332	636332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3455.01	3499.98	3544.98				
10 QPSK	1	1	12.53	12.47	12.45	13.5	0.0

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Channel	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3495	3499.98	3504.96				
100 PI2 BPSK	1	1	1	13.5	0.0		
100 PI2 BPSK	1	137	12.48				
100 PI2 BPSK	1	271	12.48				
100 PI2 BPSK	135	0	12.41	13.5	0.0		
100 PI2 BPSK	135	69	12.54	13.5	0.0		
100 PI2 BPSK	135	138	12.42	13.5	0.0		
100 PI2 BPSK	270	0	12.41				
100 QPSK	1	1	12.56				
100 QPSK	1	137	12.45	13.5	0.0		
100 QPSK	1	271	12.42				
100 QPSK	135	0	12.44				
100 QPSK	135	69	12.52	13.5	0.0		
100 QPSK	135	138	12.51	13.5	0.0		
100 QPSK	270	0	12.43	13.5	0.0		
100 16QAM	1	1	12.46	13.5	0.0		
100 16QAM	1	1	12.44	13.5	0.0		
100 16QAM	1	1	12.52	13.5	0.0		
Channel	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)		
Channel	3495	3499.98	3504.96				
Frequency (MHz)	12.45	12.50	12.44	13.5	0.0		
Channel	632668	633332	634000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3490.02	3499.98	3510				
80 QPSK	1	1	12.43	12.51	12.45	13.5	0.0
Channel	633334	633332	633332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3485.01	3499.98	3514.98				
70 QPSK	1	1	12.41	12.54	12.46	13.5	0.0
Channel	632000	633332	634666	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3480	3499.98	3519.98				
60 QPSK	1	1	12.47	12.47	12.47	13.5	0.0
Channel	631668	633332	635000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3475.02	3499.98	3525				
50 QPSK	1	1	12.50	12.46	12.50	13.5	0.0
Channel	631334	633332	635332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3470.01	3499.98	3529.98				
40 QPSK	1	1	12.42	12.41	12.45	13.5	0.0
Channel	630998	633332	636000	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3465	3499.98	3534.98				
30 QPSK	1	1	12.47	12.47	12.49	13.5	0.0
Channel	630668	633332	636332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3460.02	3499.98	3540				
20 QPSK	1	1	12.45	12.50	12.42	13.5	0.0
Channel	630300	633332	636168	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3455.5	3499.98	3542.68				
15 QPSK	1	1	12.48	12.48	12.42	13.5	0.0
Channel	630334	633332	636332	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)	3455.01	3499.98	3544.98				
10 QPSK	1	1	12.53	12.47	12.45	13.5	0.0



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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)								
100	PI2 BPSK	1	1	12.93	3750			
100	PI2 BPSK	1	137	12.96			14.0	0.0
100	PI2 BPSK	1	271	12.93				
100	PI2 BPSK	135	0	12.84			14.0	0.0
100	PI2 BPSK	135	69	12.94			14.0	0.0
100	PI2 BPSK	135	138	12.96			14.0	0.0
100	PI2 BPSK	270	0	12.87			14.0	0.0
100	QPSK	1	1	12.96				
100	QPSK	1	137	12.95			14.0	0.0
100	QPSK	1	271	12.94				
100	QPSK	135	0	12.89			14.0	0.0
100	QPSK	135	69	12.97			14.0	0.0
100	QPSK	135	138	12.90			14.0	0.0
100	QPSK	270	0	12.88			14.0	0.0
100	16QAM	1	1	12.96			14.0	0.0
100	16QAM	1	1	12.89			14.0	0.0
100	16QAM	1	1	12.93			14.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	12.98	12.96	12.92	14.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.86	12.97	12.83	14.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	12.97	12.87	12.84	14.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.91	12.91	12.89	14.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	12.94	12.92	12.94	14.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	12.89	12.97	12.90	14.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	12.84	12.85	12.84	14.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.83	12.92	12.87	14.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	12.94	12.93	12.96	14.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	12.95	12.95	12.86	14.0	0.0

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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)								
100	PI2 BPSK	1	1	12.89	3750			
100	PI2 BPSK	1	137	12.96			14.0	0.0
100	PI2 BPSK	1	271	12.93				
100	PI2 BPSK	135	0	12.84			14.0	0.0
100	PI2 BPSK	135	69	12.94			14.0	0.0
100	PI2 BPSK	135	138	12.96			14.0	0.0
100	PI2 BPSK	270	0	12.87			14.0	0.0
100	QPSK	1	1	12.96				
100	QPSK	1	137	12.95			14.0	0.0
100	QPSK	1	271	12.94				
100	QPSK	135	0	12.89			14.0	0.0
100	QPSK	135	69	12.97			14.0	0.0
100	QPSK	135	138	12.90			14.0	0.0
100	QPSK	270	0	12.88			14.0	0.0
100	16QAM	1	1	12.96			14.0	0.0
100	16QAM	1	1	12.89			14.0	0.0
100	16QAM	1	1	12.93			14.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	12.85	12.86	12.82	14.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.85	12.87	12.83	14.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	12.97	12.87	12.84	14.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.91	12.91	12.89	14.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	12.94	12.92	12.94	14.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	12.89	12.97	12.90	14.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	12.84	12.85	12.84	14.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.83	12.92	12.87	14.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	12.94	12.93	12.96	14.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	12.95	12.95	12.86	14.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	12.62	3493.98			
100	PI2 BPSK	1	137	12.66	12.66		14.0	0.0
100	PI2 BPSK	1	271	12.60				
100	PI2 BPSK	135	0	12.57	12.57		14.0	0.0
100	PI2 BPSK	135	69	12.62	12.62		14.0	0.0
100	PI2 BPSK	135	138	12.62	12.62		14.0	0.0
100	PI2 BPSK	270	0	12.70	12.70		14.0	0.0
100	QPSK	1	1	12.72	12.72			
100	QPSK	1	137	12.65	12.65		14.0	0.0
100	QPSK	1	271	12.61	12.61			
100	QPSK	135	0	12.65	12.65			
100	QPSK	135	69	12.62	12.62		14.0	0.0
100	QPSK	135	138	12.62	12.62		14.0	0.0
100	QPSK	270	0	12.60	12.60		14.0	0.0
100	16QAM	1	1	12.62	12.62		14.0	0.0
100	16QAM	1	1	12.66	12.66		14.0	0.0
100	16QAM	1	1	12.60	12.60		14.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	12.62	3493.98	3504.89	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.62	3493.98	3510	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	12.64	3493.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.69	3493.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.66	3493.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	12.66	3493.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	12.71	3493.98	3529.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	12.66	3493.98	3534.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.71	3493.98	3540.00	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	12.58	3493.98	3542.89	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	12.66	3493.98	3544.98	Tune-up limit (dBm)	MPR (dB)

Part27Q n78_Ant 7_HPUe

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	12.60	3493.98			
100	PI2 BPSK	1	137	12.66	12.66		14.0	0.0
100	PI2 BPSK	1	271	12.60	12.60			
100	PI2 BPSK	135	0	12.57	12.57		14.0	0.0
100	PI2 BPSK	135	69	12.62	12.62		14.0	0.0
100	PI2 BPSK	135	138	12.62	12.62		14.0	0.0
100	PI2 BPSK	270	0	12.70	12.70		14.0	0.0
100	QPSK	1	1	12.72	12.72			
100	QPSK	1	137	12.65	12.65		14.0	0.0
100	QPSK	1	271	12.61	12.61			
100	QPSK	135	0	12.65	12.65			
100	QPSK	135	69	12.62	12.62		14.0	0.0
100	QPSK	135	138	12.62	12.62		14.0	0.0
100	QPSK	270	0	12.60	12.60		14.0	0.0
100	16QAM	1	1	12.62	12.62		14.0	0.0
100	16QAM	1	1	12.66	12.66		14.0	0.0
100	16QAM	1	1	12.60	12.60		14.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	12.62	3493.98	3504.89	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	12.62	3493.98	3510	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	12.64	3493.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.69	3493.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	12.66	3493.98	3514.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	12.71	3493.98	3529.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	12.66	3493.98	3534.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	12.71	3493.98	3540.00	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	12.66	3493.98	3544.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15	QPSK	1	1	12.58	3493.98	3548.89	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	12.66	3493.98	3548.98	Tune-up limit (dBm)	MPR (dB)



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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	PI2 BPSK	1	1	14.83	3750			
100	PI2 BPSK	1	137	14.76	14.76		16.5	0.0
100	PI2 BPSK	1	271	14.77				
100	PI2 BPSK	135	0	14.84			16.5	0.0
100	PI2 BPSK	135	69	14.75			16.5	0.0
100	PI2 BPSK	135	138	14.75			16.5	0.0
100	PI2 BPSK	270	0	14.77			16.5	0.0
100	QPSK	1	1	14.80				
100	QPSK	1	137	14.86			16.5	0.0
100	QPSK	1	271	14.75				
100	QPSK	135	0	14.85			16.5	0.0
100	QPSK	135	69	14.88			16.5	0.0
100	QPSK	135	138	14.83			16.5	0.0
100	QPSK	270	0	14.87			16.5	0.0
100	16QAM	1	1	14.89			16.5	0.0
100	16QAM	1	1	14.77			16.5	0.0
100	256QAM	1	1	14.84			16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.75	14.76	14.76	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.76	14.83	14.75	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.80	14.88	14.83	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.77	14.80	14.76	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.82	14.85	14.80	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.87	14.84	14.79	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.84	14.84	14.89	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.86	14.83	14.75	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.89	14.78	14.76	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.88	14.84	14.80	16.5	0.0

Par270 n78_Ant 8_HPUE

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	PI2 BPSK	1	1	14.83	3750			
100	PI2 BPSK	1	137	14.76			16.5	0.0
100	PI2 BPSK	1	271	14.77				
100	PI2 BPSK	135	0	14.84			16.5	0.0
100	PI2 BPSK	135	69	14.75			16.5	0.0
100	PI2 BPSK	135	138	14.75			16.5	0.0
100	PI2 BPSK	270	0	14.77			16.5	0.0
100	QPSK	1	1	14.80				
100	QPSK	1	137	14.86			16.5	0.0
100	QPSK	1	271	14.75				
100	QPSK	135	0	14.85			16.5	0.0
100	QPSK	135	69	14.88			16.5	0.0
100	QPSK	135	138	14.83			16.5	0.0
100	QPSK	270	0	14.87			16.5	0.0
100	16QAM	1	1	14.89			16.5	0.0
100	16QAM	1	1	14.77			16.5	0.0
100	256QAM	1	1	14.84			16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.75	14.76	14.76	16.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.76	14.83	14.75	16.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.80	14.88	14.83	16.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.77	14.80	14.76	16.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.82	14.85	14.80	16.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.87	14.84	14.79	16.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.84	14.84	14.89	16.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.86	14.83	14.75	16.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.89	14.78	14.76	16.5	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	14.88	14.84	14.80	16.5	0.0



Part27Q n78_Ant 8

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	PI2 BPSK	1	1	15.48	15.48	3493.98		
100	PI2 BPSK	1	137	15.42	15.42		16.5	0.0
100	PI2 BPSK	1	271	15.52	15.52			
100	PI2 BPSK	135	0	15.53	15.53		16.5	0.0
100	PI2 BPSK	135	69	15.49	15.49		16.5	0.0
100	PI2 BPSK	135	138	15.53	15.53		16.5	0.0
100	PI2 BPSK	270	0	15.52	15.52		16.5	0.0
100	QPSK	1	1	15.36	15.36			
100	QPSK	1	137	15.43	15.43		16.5	0.0
100	QPSK	1	271	15.43	15.43			
100	QPSK	135	0	15.45	15.45		16.5	0.0
100	QPSK	135	69	15.56	15.56		16.5	0.0
100	QPSK	135	138	15.42	15.42		16.5	0.0
100	QPSK	270	0	15.48	15.48		16.5	0.0
100	16QAM	1	1	15.45	15.45		16.5	0.0
100	16QAM	1	1	15.56	15.56		16.5	0.0
100	256QAM	1	1	15.45	15.45		16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.51	15.52	3504.99		
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.42	15.55	3514.98		
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.44	15.47	3514.98		
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.52	15.55	3514.98		
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.45	15.47	3514.98		
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.42	15.43	3529.98		
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.51	15.39	3534.98		
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.53	15.43	3550.98		
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.49	15.44	3554.98		
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.42	15.42	3544.98		

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Part27Q n78_Ant 8_HPUE

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	PI2 BPSK	1	1	15.48	15.48	3493.98		
100	PI2 BPSK	1	137	15.42	15.42		16.5	0.0
100	PI2 BPSK	1	271	15.52	15.52			
100	PI2 BPSK	135	0	15.53	15.53		16.5	0.0
100	PI2 BPSK	135	69	15.49	15.49		16.5	0.0
100	PI2 BPSK	135	138	15.53	15.53		16.5	0.0
100	PI2 BPSK	270	0	15.52	15.52		16.5	0.0
100	QPSK	1	1	15.36	15.36			
100	QPSK	1	137	15.43	15.43		16.5	0.0
100	QPSK	1	271	15.43	15.43			
100	QPSK	135	0	15.45	15.45		16.5	0.0
100	QPSK	135	69	15.56	15.56		16.5	0.0
100	QPSK	135	138	15.42	15.42		16.5	0.0
100	QPSK	270	0	15.48	15.48		16.5	0.0
100	16QAM	1	1	15.45	15.45		16.5	0.0
100	16QAM	1	1	15.56	15.56		16.5	0.0
100	256QAM	1	1	15.45	15.45		16.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.51	15.52	3504.99		
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.42	15.55	3514.98		
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.44	15.47	3514.98		
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.52	15.55	3514.98		
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.45	15.47	3514.98		
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.42	15.43	3529.98		
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.51	15.39	3534.98		
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.53	15.43	3550.98		
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.49	15.44	3554.98		
Channel								
Frequency (MHz)								
10	QPSK	1	1	15.42	15.42	3544.98		



Par270 n78_Ant 10

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	PI2 BPSK	1	1	7.53	3750			
100	PI2 BPSK	1	137	7.52			9.0	0.0
100	PI2 BPSK	1	271	7.54				
100	PI2 BPSK	135	0	7.52			9.0	0.0
100	PI2 BPSK	135	69	7.58			9.0	0.0
100	PI2 BPSK	135	138	7.65			9.0	0.0
100	PI2 BPSK	270	0	7.55			9.0	0.0
100	QPSK	1	1	7.56				
100	QPSK	1	137	7.61			9.0	0.0
100	QPSK	1	271	7.58				
100	QPSK	135	0	7.55			9.0	0.0
100	QPSK	135	69	7.62			9.0	0.0
100	QPSK	135	138	7.51			9.0	0.0
100	QPSK	270	0	7.58			9.0	0.0
100	16QAM	1	1	7.54			9.0	0.0
100	16QAM	1	1	7.65			9.0	0.0
100	256QAM	1	1	7.65			9.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	7.54	3750	3754.98	9.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	7.51	3750	3759.99	9.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	7.62	3750	3765	9.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	7.55	3750	3761	9.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	7.60	3750	3764	9.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	7.55	3750	3760	9.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	7.62	3750	3769.99	9.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	7.65	3750	3769.99	9.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	7.64	3750	3769.99	9.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	7.58	3750	3761	9.0	0.0

Par270 n78_Ant 10_HPUE

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	PI2 BPSK	1	1	7.53	3750			
100	PI2 BPSK	1	137	7.52			9.0	0.0
100	PI2 BPSK	1	271	7.54				
100	PI2 BPSK	135	0	7.52			9.0	0.0
100	PI2 BPSK	135	69	7.58			9.0	0.0
100	PI2 BPSK	135	138	7.65			9.0	0.0
100	PI2 BPSK	270	0	7.55			9.0	0.0
100	QPSK	1	1	7.56				
100	QPSK	1	137	7.61			9.0	0.0
100	QPSK	1	271	7.58				
100	QPSK	135	0	7.55			9.0	0.0
100	QPSK	135	69	7.62			9.0	0.0
100	QPSK	135	138	7.51			9.0	0.0
100	QPSK	270	0	7.58			9.0	0.0
100	16QAM	1	1	7.54			9.0	0.0
100	16QAM	1	1	7.65			9.0	0.0
100	256QAM	1	1	7.65			9.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	7.54	3750	3754.98	9.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	7.51	3750	3759.99	9.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	7.62	3750	3765	9.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	7.55	3750	3761	9.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	7.60	3750	3764	9.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	7.55	3750	3760	9.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	7.62	3750	3769.99	9.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	7.65	3750	3769.99	9.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	7.64	3750	3769.99	9.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	7.58	3750	3761	9.0	0.0



Part27Q n78_Ant 10									
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	7.50	7.50	7.50			
100	PI2 BPSK	1	137	7.54	7.54	7.54	9.0	0.0	
100	PI2 BPSK	1	271	7.59	7.59	7.59			
100	PI2 BPSK	135	0	7.55	7.55	7.55	9.0	0.0	
100	PI2 BPSK	135	69	7.63	7.63	7.63			
100	PI2 BPSK	135	138	7.61	7.61	7.61	9.0	0.0	
100	PI2 BPSK	270	0	7.58	7.58	7.58			
100	QPSK	1	1	7.54	7.54	7.54	9.0	0.0	
100	QPSK	1	137	7.50	7.50	7.50			
100	QPSK	1	271	7.54	7.54	7.54			
100	QPSK	135	0	7.60	7.60	7.60	9.0	0.0	
100	QPSK	135	69	7.66	7.66	7.66			
100	QPSK	135	138	7.59	7.59	7.59	9.0	0.0	
100	QPSK	270	0	7.58	7.58	7.58			
100	16QAM	1	1	7.63	7.63	7.63	9.0	0.0	
100	16QAM	1	1	7.58	7.58	7.58	9.0	0.0	
100	256QAM	1	1	7.60	7.60	7.60	9.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	7.62	7.62	7.62	9.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	7.53	7.53	7.53	9.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	7.59	7.57	7.53	9.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	7.61	7.63	7.63	9.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	7.53	7.63	7.60	9.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	7.58	7.53	7.57	9.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	7.59	7.61	7.55	9.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	7.51	7.53	7.58	9.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	7.63	7.63	7.58	9.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	7.54	7.52	7.61	9.0	0.0	

Part27Q n78_Ant 10_HPUE									
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	7.50	7.50	7.50			
100	PI2 BPSK	1	137	7.54	7.54	7.54	9.0	0.0	
100	PI2 BPSK	1	271	7.59	7.59	7.59			
100	PI2 BPSK	135	0	7.55	7.55	7.55	9.0	0.0	
100	PI2 BPSK	135	69	7.63	7.63	7.63			
100	PI2 BPSK	135	138	7.61	7.61	7.61	9.0	0.0	
100	PI2 BPSK	270	0	7.58	7.58	7.58			
100	QPSK	1	1	7.54	7.54	7.54	9.0	0.0	
100	QPSK	1	137	7.50	7.50	7.50			
100	QPSK	1	271	7.54	7.54	7.54			
100	QPSK	135	0	7.60	7.60	7.60	9.0	0.0	
100	QPSK	135	69	7.66	7.66	7.66			
100	QPSK	135	138	7.59	7.59	7.59	9.0	0.0	
100	QPSK	270	0	7.58	7.58	7.58			
100	16QAM	1	1	7.63	7.63	7.63	9.0	0.0	
100	16QAM	1	1	7.58	7.58	7.58	9.0	0.0	
100	256QAM	1	1	7.60	7.60	7.60	9.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	7.62	7.61	7.62	9.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	7.53	7.59	7.61	9.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	7.59	7.57	7.53	9.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	7.61	7.63	7.63	9.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	7.53	7.63	7.60	9.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	7.58	7.53	7.57	9.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	7.59	7.61	7.55	9.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	7.51	7.53	7.58	9.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	7.63	7.63	7.58	9.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	7.54	7.52	7.61	9.0	0.0	



WiFi&Bluetooth

<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3					Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
802.11b 1Mbps	1	2412	20.30	22.00	19	98.65	
	6	2437	20.10	22.00	19		
	11	2462	21.10	23.00	20.5		
802.11g 6Mbps	1	2412	20.60	22.00	20	98.10	
	6	2437	20.50	22.00	20		
	11	2462	20.00	22.00	20		
802.11n-HT20 MCS0	1	2412	20.70	22.00	20	97.96	
	6	2437	20.60	22.00	20		
	11	2462	20.10	22.00	20		
802.11n-HT40 MCS0	3	2422	19.20	21.00	19	93.00	
	6	2437	19.60	21.00	19		
	9	2452	18.30	20.00	18		
802.11ac-VHT20 MCS0	1	2412	19.67	21.00	20	97.96	
	6	2437	19.58	21.00	20		
	11	2462	19.04	21.00	20		
802.11ac-VHT40 MCS0	3	2422	18.05	20.00	19	93.00	
	6	2437	18.53	20.00	19		
	9	2452	18.06	20.00	19		

<WLAN 5GHz>

5.2GHz WLAN_Ant 5					Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
802.11a 6Mbps	36	5180	21.39	22.00	19	98.28	
	40	5200	20.46	22.00	19		
	44	5220	20.59	22.00	19		
802.11n-HT20 MCS0	48	5240	20.48	22.00	19	97.79	
	36	5180	20.65	22.00	19.5		
	40	5200	20.42	22.00	19		
802.11n-HT40 MCS0	44	5220	20.63	22.00	19	96.32	
	48	5240	20.45	22.00	19		
	38	5190	16.81	18.00	16		
802.11ac-VHT20 MCS0	46	5230	20.13	22.00	19.5	97.79	
	36	5180	20.77	22.00	18.5		
	40	5200	20.48	22.00	19		
802.11ac-VHT40 MCS0	44	5220	20.65	22.00	19	93.04	
	48	5240	20.52	22.00	19		
	38	5190	16.87	18.00	16		
802.11ac-VHT80 MCS0	46	5230	19.73	21.50	19		
	42	5210	15.84	17.00	15.5		

5.3GHz WLAN_Ant 5					Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
802.11a 6Mbps	52	5260	20.40	22.00	19.5	98.28	
	56	5280	20.33	22.00	19.5		
	60	5300	20.34	22.00	19.5		
802.11n-HT20 MCS0	64	5320	20.38	22.00	19.5	97.79	
	52	5260	20.41	22.00	19.5		
	56	5280	20.31	22.00	19.5		
802.11n-HT40 MCS0	60	5300	20.35	22.00	19.5	96.32	
	64	5320	20.38	22.00	19.5		
	54	5270	20.41	22.00	20		
802.11ac-VHT20 MCS0	62	5310	16.41	18.00	17	97.79	
	52	5260	20.44	22.00	19.5		
	56	5280	20.38	22.00	19.5		
802.11ac-VHT40 MCS0	60	5300	20.39	22.00	19.5	96.32	
	64	5320	20.42	22.00	19.5		
	54	5270	19.42	21.00	19		
802.11ac-VHT80 MCS0	62	5310	16.47	18.00	17		
	58	5290	13.72	15.00	14.5		

5.8GHz WLAN_Ant 5					Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
802.11a 6Mbps	100	5500	20.43	21.00	19.5	98.28	
	116	5580	20.38	21.00	19.5		
	132	5660	20.35	21.00	19.5		
802.11n-HT20 MCS0	140	5700	20.43	21.00	19.5	97.79	
	100	5500	19.61	21.00	19.5		
	116	5580	19.58	21.00	19.5		
802.11n-HT40 MCS0	132	5660	20.29	21.00	19.5	96.32	
	140	5700	19.41	21.00	19.5		
	102	5510	19.02	20.50	18.5		
802.11ac-VHT20 MCS0	110	5550	19.75	21.00	20	97.79	
	134	5670	19.08	20.50	18.5		
	100	5500	20.45	21.00	19.5		
802.11ac-VHT40 MCS0	116	5580	20.40	21.00	19.5	96.32	
	132	5660	20.37	21.00	19.5		
	140	5700	20.45	21.00	19.5		
802.11ac-VHT80 MCS0	102	5510	19.04	20.50	18.5		
	110	5550	19.83	21.00	19		
	134	5670	19.12	20.50	18.5		
	106	5530	16.78	18.00	16.5		

5.8GHz WLAN_Ant 5					Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
802.11a 6Mbps	149	5745	20.26	22.00	19.5	98.28	
	157	5785	20.28	22.00	19.5		
	165	5825	20.26	22.00	19.5		
802.11n-HT20 MCS0	149	5745	20.22	22.00	19.5	97.79	
	157	5785	20.27	22.00	19.5		
	165	5825	20.26	22.00	19.5		
802.11n-HT40 MCS0	151	5785	19.88	21.50	19.5	96.32	
	159	5795	20.11	22.00	19.5		
	149	5745	20.31	22.00	19.5		
802.11ac-VHT20 MCS0	157	5785	20.32	22.00	19.5	97.79	
	165	5825	20.29	22.00	19.5		
	151	5785	19.36	21.00	19		
802.11ac-VHT40 MCS0	159	5795	19.61	21.00	19	96.32	
	155	5775	18.12	20.00	18		

<WLAN 5GHz>

5.2GHz WLAN_Ant 8					Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
802.11a 6Mbps	36	5180	19.79	21.00		98.28	
	40	5200	19.17	21.00			
	44	5220	19.16	21.00			
802.11n-HT20 MCS0	48	5240	19.02	21.00		98.16	
	36	5180	19.03	20.50			
	40	5200	18.61	20.50			
802.11n-HT40 MCS0	44	5220	19.16	20.50		96.33	
	48	5240	19.02	20.50			
	38	5190	16.03	17.50			
802.11ac-VHT20 MCS0	46	5230	19.06	20.50		98.16	
	36	5180	19.06	20.50			
	40	5200	18.68	20.50			
802.11ac-VHT40 MCS0	44	5220	19.18	20.50		96.33	
	48	5240	19.04	20.50			
	38	5190	16.08	17.50			
802.11ac-VHT80 MCS0	46	5230	18.50	20.50			
	42	5210	15.15	16.50			

5.3GHz WLAN_Ant 8					Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
802.11a 6Mbps	52	5260	19.38	21.00		98.28	
	56	5280	19.48	21.00			
	60	5300	19.50	21.00			
802.11n-HT20 MCS0	64	5320	19.31	21.00		98.16	
	52	5260	19.30	21.00			
	56	5280	19.41	21.00			
802.11n-HT40 MCS0	60	5300	19.51	21.00		96.33	
	64	5320	19.28	21.00			
	54	5270	19.30	21.00			
802.11ac-VHT20 MCS0	62	5310	15.88	17.50		98.16	
	52	5260	19.40	21.00			
	56	5280	19.45	21.00			
802.11ac-VHT40 MCS0	60	5300	19.53	21.00		96.33	
	64	5320	19.34	21.00			
	54	5270	18.28	20.00			
802.11ac-VHT80 MCS0	62	5310	16.03	17.50			
	58	5290	13.68	15.00			

5.8GHz WLAN_Ant 8					Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
802.11a 6Mbps	100	5500	19.23	21.00		98.28	
	116	5580	19.19	21.00			
	132	5660	19.17	21.00			
802.11n-HT20 MCS0	140	5700	19.16	21.00		98.16	
	100	5500	19.18	21.00			
	116	5580	19.08	21.00			
802.11n-HT40 MCS0	132	5660	19.15	21.00		96.33	
	140	5700	19.12	21.00			
	102	5510	17.52	19.50			
802.11ac-VHT20 MCS0	110	5550	19.35	20.00		98.16	
	134	5670	17.85	19.50			
	100	5500	19.25	21.00			
802.11ac-VHT40 MCS0	116	5580	19.22	21.00		96.33	
	132	5660	19.20	21.00			
	140	5700	19.19	21.00			
802.11ac-VHT80 MCS0	102	5510	17.60	19.50			
	110	5550	18.34	20.00			
	134	5670	17.90	19.50			
	106	5530	15.66	17.00			

5.8GHz WLAN_Ant 8					Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting		
802.11a 6Mbps	149	5745	19.17	21.00		98.28	
	157	5785	19.10	21.00			
	165	5825	19.06	21.00			
802.11n-HT20 MCS0	149	5745	19.08	21.00		98.16	
	157	5785	19.00	21.00			
	165	5825	19.07	21.00			
802.11n-HT40 MCS0	151	5785	19.06	21.00		96.33	
	159	5795	19.10	21.00			
	149	5745	19.21	21.00			
802.11ac-VHT20 MCS0	157	5785	19.13	21.00		98.16	
	165	5825	19.10	21.00			
	151	5785	18.20	20.00			
802.11ac-VHT40 MCS0	159	5795	18.63	20.00		96.33	
	155	5775	17.36	19.00			



WIFI&Bluetooth Rec on

<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11b 1Mbps	1	2412	16.85	18.50	98.65	
	6	2437	16.53	18.50		
	11	2462	16.83	18.50		
802.11g 6Mbps	1	2412	16.62	18.50	98.10	
	6	2437	16.52	18.50		
	11	2462	16.71	18.50		
802.11n-HT20 MCS0	1	2412	16.80	18.50	97.96	
	3	2422	16.55	18.50		
	11	2462	16.60	18.50		
802.11n-HT40 MCS0	3	2422	16.75	18.50	93.00	
	6	2437	16.80	18.50		
	9	2452	16.76	18.50		
802.11ac-VHT20 MCS0	1	2412	16.77	18.50	97.96	
	6	2437	16.68	18.50		
	11	2462	16.54	18.50		
802.11ac-VHT40 MCS0	3	2422	16.55	18.50	93.00	
	6	2437	16.83	18.50		
	9	2452	16.56	18.50		

<WLAN 5GHz>

5.2GHz WLAN_Ant 5				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	36	5180	21.39	22.00	98.28	
	40	5200	20.46	22.00		
	44	5220	20.59	22.00		
	48	5240	20.48	22.00		
802.11n-HT20 MCS0	36	5180	20.65	22.00	97.79	
	40	5200	20.42	22.00		
	44	5220	20.63	22.00		
	48	5240	20.45	22.00		
802.11n-HT40 MCS0	38	5190	16.81	18.00	96.32	
	46	5230	20.13	22.00		
802.11ac-VHT20 MCS0	36	5180	20.77	22.00	97.79	
	40	5200	20.48	22.00		
	44	5220	20.65	22.00		
	48	5240	20.52	22.00		
802.11ac-VHT40 MCS0	38	5190	16.87	18.00	96.32	
	46	5230	19.73	21.50		
802.11ac-VHT80 MCS0	42	5210	15.84	17.00	93.04	

5.3GHz WLAN_Ant 5				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	52	5260	20.40	22.00	98.28	
	56	5280	20.33	22.00		
	60	5300	20.34	22.00		
	64	5320	20.38	22.00		
802.11n-HT20 MCS0	52	5260	20.41	22.00	97.79	
	56	5280	20.31	22.00		
	60	5300	20.35	22.00		
	64	5320	20.38	22.00		
802.11n-HT40 MCS0	54	5270	20.41	22.00	96.32	
	62	5310	16.41	18.00		
802.11ac-VHT20 MCS0	52	5260	20.44	22.00	97.79	
	56	5280	20.38	22.00		
	60	5300	20.39	22.00		
	64	5320	20.42	22.00		
802.11ac-VHT40 MCS0	54	5270	19.42	21.00	96.32	
	62	5310	16.47	18.00		
802.11ac-VHT80 MCS0	58	5290	13.72	15.00	93.04	

5.8GHz WLAN_Ant 5				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	100	5500	20.43	21.00	98.28	
	116	5580	20.38	21.00		
	132	5660	20.35	21.00		
802.11n-HT20 MCS0	100	5500	19.61	21.00	97.79	
	116	5580	19.58	21.00		
	132	5660	20.29	21.00		
	140	5700	19.41	21.00		
802.11n-HT40 MCS0	102	5510	19.02	20.50	96.32	
	110	5550	19.75	21.00		
	134	5670	19.08	20.50		
802.11ac-VHT20 MCS0	100	5500	20.45	21.00	97.79	
	116	5580	20.40	21.00		
	132	5660	20.37	21.00		
	140	5700	20.45	21.00		
802.11ac-VHT40 MCS0	102	5510	19.04	20.50	96.32	
	110	5550	19.83	21.00		
	134	5670	19.12	20.50		
802.11ac-VHT80 MCS0	106	5530	16.78	18.00	93.04	

5.8GHz WLAN_Ant 5				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	149	5745	20.26	22.00	98.28	
	157	5785	20.28	22.00		
	165	5825	20.26	22.00		
802.11n-HT20 MCS0	149	5745	20.25	22.00	97.79	
	157	5785	20.27	22.00		
	165	5825	20.26	22.00		
802.11n-HT40 MCS0	151	5755	19.88	21.50	96.32	
	159	5795	20.11	22.00		
802.11ac-VHT20 MCS0	149	5745	20.31	22.00	97.79	
	157	5785	20.32	22.00		
	165	5825	20.29	22.00		
802.11ac-VHT40 MCS0	151	5755	19.36	21.00	96.32	
	159	5795	19.61	21.00		
802.11ac-VHT80 MCS0	155	5775	18.12	20.00	93.04	

WIFI&Bluetooth Rec on+Sim

<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11b 1Mbps	1	2412	13.84	15.50	98.65	
	6	2437	13.66	15.50		
	11	2462	13.61	15.50		
802.11g 6Mbps	1	2412		15.50	98.10	
	6	2437		15.50		
	11	2462		15.50		
802.11n-HT20 MCS0	1	2412		15.50	97.96	
	6	2437		15.50		
	11	2462		15.50		
802.11n-HT40 MCS0	3	2422	Not Required	15.50	93.00	
	6	2437		15.50		
	9	2452		15.50		
802.11ac-VHT20 MCS0	1	2412		15.50	97.96	
	6	2437		15.50		
	11	2462		15.50		
802.11ac-VHT40 MCS0	3	2422		15.50	93.00	
	6	2437		15.50		
	9	2452		15.50		

<WLAN 5GHz>

5.2GHz WLAN_Ant 5				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	36	5180	21.39	22.00	98.28	
	40	5200	20.46	22.00		
	44	5220	20.59	22.00		
	48	5240	20.48	22.00		
802.11n-HT20 MCS0	36	5180	20.55	22.00	97.79	
	40	5200	20.42	22.00		
	44	5220	20.63	22.00		
	48	5240	20.45	22.00		
802.11n-HT40 MCS0	38	5190	16.51	18.00	96.32	
	46	5230	20.13	22.00		
802.11ac-VHT20 MCS0	36	5180	20.77	22.00	97.79	
	40	5200	20.48	22.00		
	44	5220	20.55	22.00		
	48	5240	20.52	22.00		
802.11ac-VHT40 MCS0	38	5190	16.87	18.00	96.32	
	46	5230	19.73	21.50		
802.11ac-VHT80 MCS0	42	5210	15.84	17.00	93.04	

5.3GHz WLAN_Ant 5				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	52	5260	20.40	22.00	98.28	
	56	5280	20.33	22.00		
	60	5300	20.34	22.00		
	64	5320	20.38	22.00		
802.11n-HT20 MCS0	52	5260	20.41	22.00	97.79	
	56	5280	20.31	22.00		
	60	5300	20.35	22.00		
	64	5320	20.38	22.00		
802.11n-HT40 MCS0	54	5270	20.41	22.00	96.32	
	62	5310	16.41	18.00		
802.11ac-VHT20 MCS0	52	5260	20.44	22.00	97.79	
	56	5280	20.38	22.00		
	60	5300	20.39	22.00		
	64	5320	20.42	22.00		
802.11ac-VHT40 MCS0	54	5270	19.42	21.00	96.32	
	62	5310	16.47	18.00		
802.11ac-VHT80 MCS0	58	5290	13.72	15.00	93.04	

5.8GHz WLAN_Ant 5				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	100	5500	20.43	21.00	98.28	
	116	5580	20.38	21.00		
	132	5660	20.35	21.00		
	140	5700	20.43	21.00		
802.11n-HT20 MCS0	100	5500	19.61	21.00	97.79	
	116	5580	19.58	21.00		
	132	5660	20.29	21.00		
	140	5700	19.41	21.00		
802.11n-HT40 MCS0	102	5510	19.02	20.50	96.32	
	110	5550	19.75	21.00		
802.11ac-VHT20 MCS0	134	5670	19.08	20.50	97.79	
	100	5500	20.45	21.00		
	116	5580	20.40	21.00		
	132	5660	20.37	21.00		
802.11ac-VHT40 MCS0	140	5700	20.45	21.00	96.32	
	102	5510	19.04	20.50		
	110	5550	19.83	21.00		
	134	5670	19.12	20.50		
802.11ac-VHT80 MCS0	106	5530	16.78	18.00	93.04	

5.8GHz WLAN_Ant 5				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	149	5745	20.26	22.00	98.28	
	157	5785	20.28	22.00		
	165	5825	20.26	22.00		
	149	5745	20.25	22.00		
802.11n-HT20 MCS0	157	5785	20.27	22.00	97.79	
	165	5825	20.26	22.00		
	151	5755	19.88	21.50		
802.11n-HT40 MCS0	159	5765	20.11	22.00	96.32	
	149	5745	20.31	22.00		
802.11ac-VHT20 MCS0	157	5785	20.32	22.00	97.79	
	165	5825	20.29	22.00		
	151	5755	19.36	21.00		
802.11ac-VHT40 MCS0	159	5795	19.61	21.00	96.32	
	155	5775	18.12	20.00		
802.11ac-VHT80 MCS0	155	5775	18.12	20.00	93.04	



WIFI&Bluetooth Sensor on

<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dbm)	Tune-Up Limit		
802.11b 1Mbps	1	2412	17.89	19.50	98.65	
	6	2437	17.81	19.50		
	11	2462	17.86	19.50		
802.11g 6Mbps	1	2412	17.78	19.50	98.10	
	6	2437	17.89	19.50		
	11	2462	17.81	19.50		
802.11n-HT20 MCS0	1	2412	17.80	19.50	97.96	
	6	2437	17.55	19.50		
	11	2462	17.80	19.50		
802.11n-HT40 MCS0	3	2422	17.70	19.50	93.00	
	6	2437	17.82	19.50		
	9	2452	17.80	19.50		
802.11ac-VHT20 MCS0	1	2412	17.77	19.50	97.96	
	6	2437	17.78	19.50		
	11	2462	17.54	19.50		
802.11ac-VHT40 MCS0	3	2422	17.55	19.50	93.00	
	6	2437	17.73	19.50		
	9	2452	17.66	19.50		

<WLAN 5GHz>

5.2GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dbm)	Tune-Up Limit		
802.11a 6Mbps	36	5180		15.00	98.28	
	40	5200		15.00		
	44	5220		15.00		
	48	5240		15.00		
802.11n-HT20 MCS0	36	5180		15.00	98.16	
	40	5200		15.00		
	44	5220		15.00		
	48	5240		15.00		
802.11n-HT40 MCS0	38	5190	Not Required	15.00	96.33	
	46	5230		15.00		
802.11ac-VHT20 MCS0	36	5180		15.00	98.16	
	40	5200		15.00		
	44	5220		15.00		
	48	5240		15.00		
802.11ac-VHT40 MCS0	38	5190		15.00	96.33	
	46	5230		15.00		
802.11ac-VHT80 MCS0	42	5210	13.51	15.00	91.98	

5.3GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dbm)	Tune-Up Limit		
802.11a 6Mbps	52	5280		15.00	98.28	
	56	5280		15.00		
	60	5300		15.00		
	64	5320		15.00		
802.11n-HT20 MCS0	52	5280		15.00	98.16	
	56	5280		15.00		
	60	5300		15.00		
	64	5320		15.00		
802.11n-HT40 MCS0	54	5270	Not Required	15.00	96.33	
	62	5310		15.00		
802.11ac-VHT20 MCS0	52	5280		15.00	98.16	
	56	5280		15.00		
	60	5300		15.00		
	64	5320		15.00		
802.11ac-VHT40 MCS0	54	5270		15.00	96.33	
	62	5310		15.00		
802.11ac-VHT80 MCS0	58	5290	13.68	15.00	91.98	

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dbm)	Tune-Up Limit		
802.11a 6Mbps	100	5500		14.50	98.28	
	116	5580		14.50		
	132	5660		14.50		
	140	5700		14.50		
802.11n-HT20 MCS0	100	5500		14.50	98.16	
	116	5580		14.50		
	132	5660		14.50		
	140	5700		14.50		
802.11n-HT40 MCS0	102	5510	Not Required	14.50	96.33	
	110	5550		14.50		
802.11ac-VHT20 MCS0	134	5670		14.50	98.16	
	100	5500		14.50		
	116	5580		14.50		
	132	5660		14.50		
802.11ac-VHT40 MCS0	140	5700		14.50	96.33	
	102	5510		14.50		
	110	5550		14.50		
	134	5670		14.50		
802.11ac-VHT80 MCS0	106	5530	13.15	14.50	91.98	

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dbm)	Tune-Up Limit		
802.11a 6Mbps	149	5745		16.00	98.28	
	157	5785		16.00		
	165	5825		16.00		
	149	5745		16.00		
802.11n-HT20 MCS0	157	5785		16.00	98.16	
	165	5825		16.00		
	151	5785		16.00		
	159	5785		16.00		
802.11n-HT40 MCS0	149	5745	Not Required	16.00	96.33	
	157	5785		16.00		
802.11ac-VHT20 MCS0	165	5825		16.00	98.16	
	157	5785		16.00		
	165	5825		16.00		
	151	5785		16.00		
802.11ac-VHT40 MCS0	151	5785		16.00	96.33	
	159	5785		16.00		
802.11ac-VHT80 MCS0	155	5775	14.42	16.00	91.98	

WiFi&Bluetooth Sensor on+Sim

<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11b 1Mbps	1	2412	14.59	16.50	98.65	
	6	2437	14.85	16.50		
	11	2462	14.88	16.50		
802.11g 6Mbps	1	2412	Not Required	16.50	98.10	
	6	2437		16.50		
	11	2462		16.50		
802.11n-HT20 MCS0	1	2412	Not Required	16.50	97.96	
	6	2437		16.50		
	11	2462		16.50		
802.11n-HT40 MCS0	3	2422	Not Required	16.50	93.00	
	6	2437		16.50		
	9	2452		16.50		
802.11ac-VHT20 MCS0	6	2437	Not Required	16.50	97.96	
	11	2462		16.50		
	3	2422		16.50		
802.11ac-VHT40 MCS0	6	2437	Not Required	16.50	93.00	
	9	2452		16.50		
	3	2422		16.50		

<WLAN 5GHz>

5.2GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	36	5180	Not Required	10.50	98.28	
	40	5200		10.50		
	44	5220		10.50		
	48	5240		10.50		
802.11n-HT20 MCS0	36	5180	Not Required	10.50	98.16	
	40	5200		10.50		
	44	5220		10.50		
	48	5240		10.50		
802.11n-HT40 MCS0	38	5190	Not Required	10.50	96.33	
	46	5230		10.50		
	36	5180		10.50		
	40	5200		10.50		
802.11ac-VHT20 MCS0	44	5220	Not Required	10.50	98.16	
	48	5240		10.50		
	44	5220		10.50		
	38	5190		10.50		
802.11ac-VHT40 MCS0	46	5230	Not Required	10.50	96.33	
	42	5210		9.35		
	46	5230		10.50		
	42	5210		10.50		

5.3GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	52	5260	Not Required	10.50	98.28	
	56	5280		10.50		
	60	5300		10.50		
	64	5320		10.50		
802.11n-HT20 MCS0	52	5260	Not Required	10.50	98.16	
	56	5280		10.50		
	60	5300		10.50		
	64	5320		10.50		
802.11n-HT40 MCS0	54	5270	Not Required	10.50	96.33	
	62	5310		10.50		
	52	5260		10.50		
	56	5280		10.50		
802.11ac-VHT20 MCS0	60	5300	Not Required	10.50	98.16	
	64	5320		10.50		
	54	5270		10.50		
	62	5310		10.50		
802.11ac-VHT40 MCS0	58	5290	Not Required	9.11	91.98	
	58	5290		10.50		
	58	5290		10.50		
	58	5290		10.50		

5.5GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	100	5500	Not Required	10.50	98.28	
	116	5580		10.50		
	132	5660		10.50		
	140	5700		10.50		
802.11n-HT20 MCS0	100	5500	Not Required	10.50	98.16	
	116	5580		10.50		
	132	5660		10.50		
	140	5700		10.50		
802.11n-HT40 MCS0	102	5510	Not Required	10.50	96.33	
	110	5550		10.50		
	134	5670		10.50		
	100	5500		10.50		
802.11ac-VHT20 MCS0	116	5580	Not Required	10.50	98.16	
	132	5660		10.50		
	140	5700		10.50		
	102	5510		10.50		
802.11ac-VHT40 MCS0	110	5550	Not Required	10.50	96.33	
	134	5670		10.50		
	108	5530		9.18		
	108	5530		10.50		

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	149	5745	Not Required	11.00	98.28	
	157	5785		11.00		
	165	5825		11.00		
802.11n-HT20 MCS0	149	5745	Not Required	11.00	98.16	
	157	5785		11.00		
	165	5825		11.00		
802.11n-HT40 MCS0	151	5795	Not Required	11.00	96.33	
	159	5795		11.00		
	149	5745		11.00		
802.11ac-VHT20 MCS0	157	5785	Not Required	11.00	98.16	
	165	5825		11.00		
	151	5795		11.00		
802.11ac-VHT40 MCS0	159	5795	Not Required	11.00	96.33	
	155	5775		9.89		
	155	5775		11.00		

WIFI&Bluetooth Handheld

<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11b 1Mbps	1	2412	20.30	22.00	98.65	
	6	2437	20.10	22.00		
	11	2462	20.28	22.00		
802.11g 6Mbps	1	2412	Not Required	22.00	98.10	
	6	2437		22.00		
	11	2462		22.00		
802.11n-HT20 MCS0	1	2412	Not Required	22.00	97.96	
	6	2437		22.00		
	11	2462		22.00		
802.11n-HT40 MCS0	3	2422	Not Required	21.00	93.00	
	6	2437		21.00		
	9	2452		20.00		
802.11ac-VHT20 MCS0	1	2412	Not Required	21.00	97.96	
	6	2437		21.00		
	11	2462		21.00		
802.11ac-VHT40 MCS0	3	2422	Not Required	20.00	93.00	
	6	2437		20.00		
	9	2452		20.00		

<WLAN 5GHz>

5.2GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	36	5180	Not Required	19.50	98.28	
	40	5200		19.50		
	44	5220		19.50		
802.11n-HT20 MCS0	48	5240	Not Required	19.50	98.16	
	36	5180		19.50		
	40	5200		19.50		
802.11n-HT40 MCS0	48	5240	Not Required	19.50	96.33	
	38	5190		16.03		
	46	5230		17.98		
802.11ac-VHT20 MCS0	36	5180	Not Required	19.50	98.16	
	40	5200		19.50		
	44	5220		19.50		
802.11ac-VHT40 MCS0	48	5240	Not Required	19.50	96.33	
	38	5190		17.50		
	46	5230		19.50		
802.11ac-VHT80 MCS0	42	5210	Not Required	16.30	91.98	

5.3GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	52	5260	Not Required	19.00	98.28	
	56	5280		19.00		
	60	5300		19.00		
802.11n-HT20 MCS0	64	5320	Not Required	19.00	98.16	
	52	5260		19.00		
	56	5280		19.00		
802.11n-HT40 MCS0	64	5320	Not Required	19.00	96.33	
	54	5270		17.11		
	62	5310		15.88		
802.11ac-VHT20 MCS0	52	5260	Not Required	19.00	98.16	
	56	5280		19.00		
	60	5300		19.00		
802.11ac-VHT40 MCS0	64	5320	Not Required	19.00	96.33	
	54	5270		19.00		
	62	5310		17.50		
802.11ac-VHT80 MCS0	58	5290	Not Required	15.00	91.98	

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	100	5500	Not Required	18.00	98.28	
	116	5580		18.00		
	132	5660		18.00		
802.11n-HT20 MCS0	140	5700	Not Required	18.00	98.16	
	100	5500		18.00		
	116	5580		18.00		
802.11n-HT40 MCS0	140	5700	Not Required	18.00	96.33	
	102	5510		17.05		
	110	5550		16.49		
802.11ac-VHT20 MCS0	134	5670	Not Required	18.00	98.16	
	100	5500		17.36		
	116	5580		18.00		
802.11ac-VHT40 MCS0	140	5700	Not Required	18.00	96.33	
	102	5510		18.00		
	110	5550		18.00		
802.11ac-VHT80 MCS0	134	5670	Not Required	17.00	91.98	

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	149	5745	Not Required	19.00	98.28	
	157	5785		19.00		
	165	5825		19.00		
802.11n-HT20 MCS0	149	5745	Not Required	19.00	98.16	
	157	5785		19.00		
	165	5825		19.00		
802.11n-HT40 MCS0	151	5765	Not Required	19.00	96.33	
	159	5795		19.00		
	149	5745		19.00		
802.11ac-VHT20 MCS0	157	5785	Not Required	19.00	98.16	
	165	5825		19.00		
	151	5765		19.00		
802.11ac-VHT40 MCS0	151	5765	Not Required	19.00	96.33	
	159	5795		19.00		
	155	5775		17.36		
802.11ac-VHT80 MCS0	155	5775	Not Required	19.00	91.98	

WIFI&Bluetooth Handheld+Sim

<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dbm)	Tune-Up Limit		
802.11b 1Mbps	1	2412	15.41	17.00	98.65	
	6	2437	15.34	17.00		
	11	2462	15.38	17.00		
802.11g 6Mbps	1	2412	Not Required	17.00	98.10	
	6	2437		17.00		
	11	2462		17.00		
802.11n-HT20 MCS0	1	2412	Not Required	17.00	97.96	
	6	2437		17.00		
	11	2462		17.00		
802.11n-HT40 MCS0	3	2422	Not Required	16.00	93.00	
	6	2437		16.00		
	9	2452		16.00		
802.11ac-VHT20 MCS0	1	2412	Not Required	16.00	97.96	
	6	2437		16.00		
	11	2462		16.00		
802.11ac-VHT40 MCS0	3	2422	Not Required	15.00	93.00	
	6	2437		15.00		
	9	2452		15.00		

<WLAN 5GHz>

5.2GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dbm)	Tune-Up Limit		
802.11a 6Mbps	36	5180	Not Required	16.00	98.28	
	40	5200		16.00		
	44	5220		16.00		
	48	5240		16.00		
802.11n-HT20 MCS0	36	5180	Not Required	16.00	98.16	
	40	5200		16.00		
	44	5220		16.00		
	48	5240		16.00		
802.11n-HT40 MCS0	38	5190	Not Required	16.00	96.33	
	46	5230		16.00		
802.11ac-VHT20 MCS0	36	5180	Not Required	16.00	98.16	
	40	5200		16.00		
	44	5220		16.00		
	48	5240		16.00		
802.11ac-VHT40 MCS0	38	5190	Not Required	16.00	96.33	
	46	5230		16.00		
802.11ac-VHT80 MCS0	42	5210	Not Required	14.58	91.98	

5.3GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dbm)	Tune-Up Limit		
802.11a 6Mbps	52	5260	Not Required	14.00	98.28	
	56	5280		14.00		
	60	5300		14.00		
	64	5320		14.00		
802.11n-HT20 MCS0	52	5260	Not Required	14.00	98.16	
	56	5280		14.00		
	60	5300		14.00		
	64	5320		14.00		
802.11n-HT40 MCS0	54	5270	Not Required	14.00	96.33	
	62	5310		14.00		
802.11ac-VHT20 MCS0	52	5260	Not Required	14.00	98.16	
	56	5280		14.00		
	60	5300		14.00		
	64	5320		14.00		
802.11ac-VHT40 MCS0	54	5270	Not Required	14.00	96.33	
	62	5310		14.00		
802.11ac-VHT80 MCS0	58	5290	Not Required	12.75	91.98	

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dbm)	Tune-Up Limit		
802.11a 6Mbps	100	5500	Not Required	14.50	98.28	
	116	5580		14.50		
	132	5660		14.50		
	140	5700		14.50		
802.11n-HT20 MCS0	100	5500	Not Required	14.50	98.16	
	116	5580		14.50		
	132	5660		14.50		
	140	5700		14.50		
802.11n-HT40 MCS0	102	5510	Not Required	14.50	96.33	
	110	5550		14.50		
802.11ac-VHT20 MCS0	100	5500	Not Required	14.50	98.16	
	116	5580		14.50		
	132	5660		14.50		
	140	5700		14.50		
802.11ac-VHT40 MCS0	102	5510	Not Required	14.50	96.33	
	110	5550		14.50		
802.11ac-VHT80 MCS0	106	5530	Not Required	13.15	91.98	

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dbm)	Tune-Up Limit		
802.11a 6Mbps	149	5745	Not Required	15.00	98.28	
	157	5785		15.00		
	165	5825		15.00		
802.11n-HT20 MCS0	149	5745	Not Required	15.00	98.16	
	157	5785		15.00		
	165	5825		15.00		
802.11n-HT40 MCS0	151	5795	Not Required	15.00	96.33	
	159	5795		15.00		
802.11ac-VHT20 MCS0	149	5745	Not Required	15.00	98.16	
	157	5785		15.00		
	165	5825		15.00		
802.11ac-VHT40 MCS0	151	5795	Not Required	15.00	96.33	
	159	5795		15.00		
802.11ac-VHT80 MCS0	155	5775	Not Required	13.48	91.98	



WIFI&Bluetooth Hotspot

<WLAN 2.4GHz>

2.4GHz WLAN_Ant 3				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11b 1Mbps	1	2412	15.91	17.50	98.65	
	6	2437	15.84	17.50		
	11	2462	15.88	17.50		
802.11g 6Mbps	1	2412	Not Required	17.50	98.10	
	6	2437		17.50		
	11	2462		17.50		
802.11n-HT20 MCS0	1	2412	Not Required	17.50	97.96	
	6	2437		17.50		
	11	2462		17.50		
802.11n-HT40 MCS0	3	2422	Not Required	17.50	93.00	
	6	2437		17.50		
	9	2452		17.50		
802.11ac-VHT20 MCS0	1	2412	Not Required	17.50	97.96	
	6	2437		17.50		
	11	2462		17.50		
802.11ac-VHT40 MCS0	3	2422	Not Required	17.50	93.00	
	6	2437		17.50		
	9	2452		17.50		

<WLAN 5GHz>

5.2GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	36	5180	Not Required	13.50	98.28	
	40	5200		13.50		
	44	5220		13.50		
	48	5240		13.50		
802.11n-HT20 MCS0	36	5180	Not Required	13.50	98.16	
	40	5200		13.50		
	44	5220		13.50		
	48	5240		13.50		
802.11n-HT40 MCS0	38	5190	Not Required	13.50	96.33	
	46	5230		13.50		
802.11ac-VHT20 MCS0	36	5180	Not Required	13.50	98.16	
	40	5200		13.50		
	44	5220		13.50		
	48	5240		13.50		
802.11ac-VHT40 MCS0	38	5190	Not Required	13.50	96.33	
	46	5230		13.50		
802.11ac-VHT80 MCS0	42	5210	12.75	13.50	91.98	

5.8GHz WLAN_Ant 8				Default		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit		
802.11a 6Mbps	149	5745	Not Required	12.50	98.28	
	157	5785		12.50		
	165	5825		12.50		
802.11n-HT20 MCS0	149	5745	Not Required	12.50	98.16	
	157	5785		12.50		
	165	5825		12.50		
802.11n-HT40 MCS0	151	5755	Not Required	12.50	96.33	
	159	5795		12.50		
802.11ac-VHT20 MCS0	149	5745	Not Required	12.50	98.16	
	157	5785		12.50		
	165	5825		12.50		
802.11ac-VHT40 MCS0	151	5755	Not Required	12.50	96.33	
	159	5795		12.50		
802.11ac-VHT80 MCS0	155	5775	11.15	12.50	91.98	



BR/EDR_Standalone

Mode	Channel	Frequency (MHz)	Ant 3					
			Average power (dBm)					
			DH5	Tune-up limit	2DH5	Tune-up limit	3DH5	Tune-up limit
Bluetooth	CH 0	2402	10.60	12.00	6.40	8.00	6.40	8.00
	CH 39	2441	12.20	14.00	7.90	9.50	7.90	9.50
	CH 78	2480	12.80	14.00	9.10	10.00	9.10	10.00

BLE_1M

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	5.50
	CH 19	2440	6.70
	CH 39	2480	7.30
Tune-up Limit			8.00

BLE_2M

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	5.50	5.40
	CH 19	2440	6.70	6.60
	CH 39	2480	7.30	7.20
Tune-up Limit			8.00	