



Full Power Mode&Default Power

Table with columns: GSM900\_Ant 0, Band Average Power (dBm), TX Channel, Frequency (MHz), GSM 1 Tx, GSM 1 Tx Adj, GPRS 1 Tx, GPRS 2 Tx, GPRS 3 Tx, GPRS 4 Tx, EDGE 1 Tx, EDGE 2 Tx, EDGE 3 Tx, EDGE 4 Tx. Values range from 156 to 2524.

Table with columns: GSM900\_Ant 1, Band Average Power (dBm), TX Channel, Frequency (MHz), GSM 1 Tx, GSM 1 Tx Adj, GPRS 1 Tx, GPRS 2 Tx, GPRS 3 Tx, GPRS 4 Tx, EDGE 1 Tx, EDGE 2 Tx, EDGE 3 Tx, EDGE 4 Tx. Values range from 156 to 2524.

Table with columns: GSM1800\_Ant 1, Band Average Power (dBm), TX Channel, Frequency (MHz), GSM 1 Tx, GSM 1 Tx Adj, GPRS 1 Tx, GPRS 2 Tx, GPRS 3 Tx, GPRS 4 Tx, EDGE 1 Tx, EDGE 2 Tx, EDGE 3 Tx, EDGE 4 Tx. Values range from 152 to 2480.

Table with columns: GSM1800\_Ant 2, Band Average Power (dBm), TX Channel, Frequency (MHz), GSM 1 Tx, GSM 1 Tx Adj, GPRS 1 Tx, GPRS 2 Tx, GPRS 3 Tx, GPRS 4 Tx, EDGE 1 Tx, EDGE 2 Tx, EDGE 3 Tx, EDGE 4 Tx. Values range from 152 to 2480.

Table with columns: Band, WCDMA V\_Ant 1, WCDMA V\_Ant 2, TX Channel, Frequency (MHz), SCPP Pwr 99, SCPP Pwr 98, SCPP Pwr 5, SCPP Pwr 6, SCPP Pwr 8, SCPP Pwr 9, SCPP Pwr 10, SCPP Pwr 11, SCPP Pwr 12, SCPP Pwr 13, SCPP Pwr 14, SCPP Pwr 15, SCPP Pwr 16, SCPP Pwr 17, SCPP Pwr 18, SCPP Pwr 19, SCPP Pwr 20. Values range from 5002 to 19516.

Table with columns: Band, WCDMA V\_Ant 1, WCDMA V\_Ant 2, TX Channel, Frequency (MHz), SCPP Pwr 99, SCPP Pwr 98, SCPP Pwr 5, SCPP Pwr 6, SCPP Pwr 8, SCPP Pwr 9, SCPP Pwr 10, SCPP Pwr 11, SCPP Pwr 12, SCPP Pwr 13, SCPP Pwr 14, SCPP Pwr 15, SCPP Pwr 16, SCPP Pwr 17, SCPP Pwr 18, SCPP Pwr 19, SCPP Pwr 20. Values range from 5002 to 19516.

Table with columns: Band, WCDMA V\_Ant 3, WCDMA V\_Ant 4, TX Channel, Frequency (MHz), SCPP Pwr 99, SCPP Pwr 98, SCPP Pwr 5, SCPP Pwr 6, SCPP Pwr 8, SCPP Pwr 9, SCPP Pwr 10, SCPP Pwr 11, SCPP Pwr 12, SCPP Pwr 13, SCPP Pwr 14, SCPP Pwr 15, SCPP Pwr 16, SCPP Pwr 17, SCPP Pwr 18, SCPP Pwr 19, SCPP Pwr 20. Values range from 4102 to 19516.

Table with columns: Band, WCDMA V\_Ant 3, WCDMA V\_Ant 4, TX Channel, Frequency (MHz), SCPP Pwr 99, SCPP Pwr 98, SCPP Pwr 5, SCPP Pwr 6, SCPP Pwr 8, SCPP Pwr 9, SCPP Pwr 10, SCPP Pwr 11, SCPP Pwr 12, SCPP Pwr 13, SCPP Pwr 14, SCPP Pwr 15, SCPP Pwr 16, SCPP Pwr 17, SCPP Pwr 18, SCPP Pwr 19, SCPP Pwr 20. Values range from 4102 to 19516.







Band 12\_Ant 0

Table with columns: EIRP (dB), Modulation, RB Rate, RB Ch. (Freq), Power Low Ch. (Freq), Power Med. Ch. (Freq), Power High Ch. (Freq), Turn-up (min), and MPE (dB). Includes sub-headers for Channel, Frequency (MHz), and Channel.

Band 12\_Ant 1

Table with columns: EIRP (dB), Modulation, RB Rate, RB Ch. (Freq), Power Low Ch. (Freq), Power Med. Ch. (Freq), Power High Ch. (Freq), Turn-up (min), and MPE (dB). Includes sub-headers for Channel, Frequency (MHz), and Channel.

Band 13\_Ant 0

Table with columns: EIRP (dB), Modulation, RB Rate, RB Ch. (Freq), Power Low Ch. (Freq), Power Med. Ch. (Freq), Power High Ch. (Freq), Turn-up (min), and MPE (dB). Includes sub-headers for Channel, Frequency (MHz), and Channel.

Band 13\_Ant 1

Table with columns: EIRP (dB), Modulation, RB Rate, RB Ch. (Freq), Power Low Ch. (Freq), Power Med. Ch. (Freq), Power High Ch. (Freq), Turn-up (min), and MPE (dB). Includes sub-headers for Channel, Frequency (MHz), and Channel.













Band 38\_Ant 1

Table with columns: BW (MHz), Modulation, RB (KHz), Power Low Ch. (Freq.), Power High Ch. (Freq.), Turn-on time (sec), and MPR (dB). It lists 15 modulation schemes (OFDM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM) across various frequencies and power levels.

Band 38\_Ant 2

Table with columns: BW (MHz), Modulation, RB (KHz), Power Low Ch. (Freq.), Power High Ch. (Freq.), Turn-on time (sec), and MPR (dB). It lists 15 modulation schemes (OFDM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM) across various frequencies and power levels.

Band 41\_Ant 1

Table with columns: BW (MHz), Modulation, RB (KHz), Power Low Ch. (Freq.), Power High Ch. (Freq.), Turn-on time (sec), and MPR (dB). It lists 15 modulation schemes (OFDM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM, HGTAM) across various frequencies and power levels.







Reduced Power Mode for DS12

Table with columns: GSMD50\_Ant 0, Band Average Power (dBm), TX Channel, Frequency (MHz), GSMD 1 Tx, GSMD 2 Tx, GSMD 3 Tx, GSMD 4 Tx, EDGE 1 Tx, EDGE 2 Tx, EDGE 3 Tx. Includes sub-headers for Base and Frame Average Power (dBm) and Tuning Limit (dBm).

Table with columns: GSMD50\_Ant 1, Band Average Power (dBm), TX Channel, Frequency (MHz), GSMD 1 Tx, GSMD 2 Tx, GSMD 3 Tx, GSMD 4 Tx, EDGE 1 Tx, EDGE 2 Tx, EDGE 3 Tx. Includes sub-headers for Base and Frame Average Power (dBm) and Tuning Limit (dBm).

Table with columns: GSMD100\_Ant 1, Band Average Power (dBm), TX Channel, Frequency (MHz), GSMD 1 Tx, GSMD 2 Tx, GSMD 3 Tx, GSMD 4 Tx, EDGE 1 Tx, EDGE 2 Tx, EDGE 3 Tx. Includes sub-headers for Base and Frame Average Power (dBm) and Tuning Limit (dBm).

Table with columns: GSMD100\_Ant 2, Band Average Power (dBm), TX Channel, Frequency (MHz), GSMD 1 Tx, GSMD 2 Tx, GSMD 3 Tx, GSMD 4 Tx, EDGE 1 Tx, EDGE 2 Tx, EDGE 3 Tx. Includes sub-headers for Base and Frame Average Power (dBm) and Tuning Limit (dBm).

Table with columns: WCDMA V\_Jon 1, Band Average Power (dBm), TX Channel, Frequency (MHz), SGPSP Rx, HS-DRPA Subchannel 1, HS-DRPA Subchannel 2, HS-DRPA Subchannel 3, HS-DRPA Subchannel 4, HS-DRPA Subchannel 5. Includes sub-headers for Base and Frame Average Power (dBm) and Tuning Limit (dBm).

Table with columns: WCDMA V\_Jon 2, Band Average Power (dBm), TX Channel, Frequency (MHz), SGPSP Rx, HS-DRPA Subchannel 1, HS-DRPA Subchannel 2, HS-DRPA Subchannel 3, HS-DRPA Subchannel 4, HS-DRPA Subchannel 5. Includes sub-headers for Base and Frame Average Power (dBm) and Tuning Limit (dBm).

Table with columns: WCDMA V\_Jon 3, Band Average Power (dBm), TX Channel, Frequency (MHz), SGPSP Rx, HS-DRPA Subchannel 1, HS-DRPA Subchannel 2, HS-DRPA Subchannel 3, HS-DRPA Subchannel 4, HS-DRPA Subchannel 5. Includes sub-headers for Base and Frame Average Power (dBm) and Tuning Limit (dBm).

Table with columns: WCDMA V\_Jon 4, Band Average Power (dBm), TX Channel, Frequency (MHz), SGPSP Rx, HS-DRPA Subchannel 1, HS-DRPA Subchannel 2, HS-DRPA Subchannel 3, HS-DRPA Subchannel 4, HS-DRPA Subchannel 5. Includes sub-headers for Base and Frame Average Power (dBm) and Tuning Limit (dBm).

















**Band 66\_Ant 2**

BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch. (Freq)	Power High Ch. (Freq)	Power Low Ch. (Power)	Power High Ch. (Power)	Turnup time (s)	MFR (dB)	Channel		
										132022	132022	132022
20	QPSK	1	0	23.19	23.11	23.18	23.85	0				
20	QPSK	1	49	23.21	23.25	23.21	23.85	24	0			
20	QPSK	50	0	23.05	23.19	23.08	23.85	0				
20	QPSK	50	24	23.03	23.23	23.10	23.85	24	0			
20	QPSK	50	30	23.16	23.18	23.26	23.85	30	0			
20	QPSK	50	0	23.15	23.20	23.17	23.85	0				
20	16QAM	1	0	23.21	23.83	23.87	23.85	0				
20	16QAM	1	49	23.20	23.24	23.28	23.85	24	0			
20	16QAM	50	0	22.89	23.06	23.05	23.85	0				
20	16QAM	50	24	23.21	23.25	23.24	23.85	24	0			
20	16QAM	50	30	23.06	23.16	23.09	23.85	30	0			
20	16QAM	100	0	22.92	23.25	23.01	23.85	0				
20	8QAM	1	0	22.91	23.06	23.06	23.85	0				
20	8QAM	1	49	22.96	23.18	23.06	23.85	24	0			
20	8QAM	50	0	22.99	23.06	23.06	23.85	0				
20	8QAM	50	0	21.72	21.71	21.66	23.85	0				
20	8QAM	50	24	21.94	21.95	21.70	23.85	23	1			
20	8QAM	50	0	21.97	21.70	21.68	23.85	0				
20	8QAM	100	0	21.95	21.68	21.68	23.85	0				
20	25QAM	1	0	18.99	18.94	18.93	18.95	0				
20	25QAM	1	49	18.98	18.95	18.95	18.95	20	4			
20	25QAM	50	0	18.98	18.96	18.94	18.95	0				
20	25QAM	50	0	18.97	18.93	18.93	18.95	0				
20	25QAM	50	24	18.97	18.93	18.93	18.95	20	4			
20	25QAM	50	30	18.95	18.93	18.97	18.95	30	4			
20	25QAM	100	0	18.91	18.90	18.88	18.95	0				

**Band 71\_Ant 0**

BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch. (Freq)	Power High Ch. (Freq)	Power Low Ch. (Power)	Power High Ch. (Power)	Turnup time (s)	MFR (dB)	Channel		
										133022	133027	133372
20	QPSK	1	0	23.21	23.12	23.16	23.85	0				
20	QPSK	1	49	23.21	23.25	23.21	23.85	24	0			
20	QPSK	50	0	23.06	23.20	23.17	23.85	0				
20	QPSK	50	24	23.21	23.25	23.20	23.85	24	0			
20	QPSK	50	30	23.19	23.19	23.16	23.85	30	0			
20	QPSK	100	0	23.18	23.22	23.16	23.85	0				
20	16QAM	1	0	23.84	23.85	23.18	23.85	0				
20	16QAM	1	49	23.21	23.29	23.17	23.85	24	0			
20	16QAM	50	0	22.10	23.32	23.28	23.85	0				
20	16QAM	50	24	23.07	23.20	23.05	23.85	23	1			
20	16QAM	50	30	22.94	23.30	23.09	23.85	30	0			
20	16QAM	100	0	22.34	23.28	23.18	23.85	0				
20	8QAM	1	0	22.13	22.28	22.42	23.85	0				
20	8QAM	1	49	22.17	22.19	22.24	23.85	23	1			
20	8QAM	50	0	22.24	22.17	22.24	23.85	0				
20	8QAM	50	0	21.86	21.43	21.63	23.85	0				
20	8QAM	50	24	21.50	21.44	21.51	23.85	22	2			
20	8QAM	50	0	21.81	21.66	21.81	23.85	0				
20	8QAM	100	0	21.84	21.45	21.51	23.85	0				
20	25QAM	1	0	18.43	18.80	18.43	18.95	0				
20	25QAM	1	49	18.43	18.80	18.43	18.95	20	4			
20	25QAM	50	0	18.43	18.40	18.43	18.95	0				
20	25QAM	50	0	18.42	18.46	18.42	18.95	0				
20	25QAM	50	24	18.42	18.42	18.42	18.95	20	4			
20	25QAM	50	30	18.42	18.40	18.42	18.95	30	4			
20	25QAM	100	0	18.43	18.55	18.51	18.95	0				

**Band 71\_Ant 1**

BW (MHz)	Modulation	RB (MHz)	RB Offset	Power Low Ch. (Freq)	Power High Ch. (Freq)	Power Low Ch. (Power)	Power High Ch. (Power)	Turnup time (s)	MFR (dB)	Channel		
										133022	133027	133372
20	QPSK	1	0	22.96	22.88	22.87	23.85	0				
20	QPSK	1	49	22.96	23.00	22.95	23.85	24	0			
20	QPSK	50	0	22.81	22.89	22.86	23.85	0				
20	QPSK	50	0	22.87	22.92	22.78	23.85	0				
20	QPSK	50	24	22.81	22.87	22.79	23.85	24	0			
20	QPSK	50	30	22.78	22.74	22.76	23.85	30	0			
20	QPSK	100	0	22.76	23.02	22.78	23.85	0				
20	16QAM	1	0	22.84	22.83	22.51	23.85	0				
20	16QAM	1	49	22.86	22.91	22.88	23.85	24	0			
20	16QAM	50	0	22.87	22.77	22.91	23.85	0				
20	16QAM	50	24	21.71	21.88	21.61	23.85	23	1			
20	16QAM	50	30	21.54	21.79	21.70	23.85	30	0			
20	16QAM	100	0	21.83	21.91	21.53	23.85	0				
20	8QAM	1	0	21.90	22.01	21.69	23.85	0				
20	8QAM	1	49	21.85	21.87	21.92	23.85	23	1			
20	8QAM	50	0	21.92	21.80	21.89	23.85	0				
20	8QAM	50	0	20.70	20.81	20.77	23.85	0				
20	8QAM	50	24	20.67	20.81	20.77	23.85	22	2			
20	8QAM	50	0	20.78	20.86	20.87	23.85	0				
20	8QAM	100	0	20.86	20.76	20.80	23.85	0				
20	25QAM	1	0	18.41	18.48	18.39	18.95	0				
20	25QAM	1	49	18.41	18.48	18.39	18.95	20	4			
20	25QAM	50	0	18.41	18.41	18.39	18.95	0				
20	25QAM	50	0	18.39	18.39	18.39	18.95	0				
20	25QAM	50	24	18.42	18.33	18.42	18.95	20	4			
20	25QAM	50	30	18.41	18.33	18.41	18.95	30	4			
20	25QAM	100	0	18.41	18.50	18.39	18.95	0				











Band 2\_Ant 1

Table with columns: Freq (MHz), Modulation, RB, RB Group, Power Low (Flowed), Power Meds (Flowed), Power High (Flowed), Time-use (min), and Mbps (dB). It contains multiple data rows for different frequencies and power levels.

Band 2\_Ant 1

Table with columns: Freq (MHz), Modulation, RB, RB Group, Power Low (Flowed), Power Meds (Flowed), Power High (Flowed), Time-use (min), and Mbps (dB). It contains multiple data rows for different frequencies and power levels.

Band 4\_Ant 1

Table with columns: Freq (MHz), Modulation, RB, RB Group, Power Low (Flowed), Power Meds (Flowed), Power High (Flowed), Time-use (min), and Mbps (dB). It contains multiple data rows for different frequencies and power levels.

Band 4\_Ant 1

Table with columns: Freq (MHz), Modulation, RB, RB Group, Power Low (Flowed), Power Meds (Flowed), Power High (Flowed), Time-use (min), and Mbps (dB). It contains multiple data rows for different frequencies and power levels.











### Band 25\_Ant 1

RV (MHz)	Modulation	RB (MHz)	Phase Low Ch. Freq.	Phase Med. Ch. Freq.	Phase High Ch. Freq.	Tune-up (MHz)	MPL (dB)
20	QPSK	1	1740	1740	1740		0
20	QPSK	1	1740	1740	1740	18.7	0
20	QPSK	50	1740	1740	1740		0
20	QPSK	50	1740	1740	1740	18.7	0
20	HQAM	1	1740	1740	1740		0
20	HQAM	1	1740	1740	1740	18.7	0
20	HQAM	50	1740	1740	1740		0
20	HQAM	50	1740	1740	1740	18.7	0
20	ZSSB	1	1740	1740	1740		0.7
20	ZSSB	1	1740	1740	1740	18.7	0.7
20	ZSSB	50	1740	1740	1740		0.7
20	ZSSB	50	1740	1740	1740	18.7	0.7
15	QPSK	1	1740	1740	1740		0
15	QPSK	1	1740	1740	1740	18.7	0
15	QPSK	50	1740	1740	1740		0
15	QPSK	50	1740	1740	1740	18.7	0
15	HQAM	1	1740	1740	1740		0
15	HQAM	1	1740	1740	1740	18.7	0
15	HQAM	50	1740	1740	1740		0
15	HQAM	50	1740	1740	1740	18.7	0
15	ZSSB	1	1740	1740	1740		0.7
15	ZSSB	1	1740	1740	1740	18.7	0.7
15	ZSSB	50	1740	1740	1740		0.7
15	ZSSB	50	1740	1740	1740	18.7	0.7

### Band 25\_Ant 2

RV (MHz)	Modulation	RB (MHz)	Phase Low Ch. Freq.	Phase Med. Ch. Freq.	Phase High Ch. Freq.	Tune-up (MHz)	MPL (dB)
20	QPSK	1	2030	2030	2030		0
20	QPSK	1	2030	2030	2030	21.9	0
20	QPSK	50	2030	2030	2030		0
20	QPSK	50	2030	2030	2030	21.9	0
20	HQAM	1	2030	2030	2030		0
20	HQAM	1	2030	2030	2030	21.9	0
20	HQAM	50	2030	2030	2030		0
20	HQAM	50	2030	2030	2030	21.9	0
20	ZSSB	1	2030	2030	2030		1.0
20	ZSSB	1	2030	2030	2030	21.9	1.0
20	ZSSB	50	2030	2030	2030		1.0
20	ZSSB	50	2030	2030	2030	21.9	1.0
15	QPSK	1	2030	2030	2030		0
15	QPSK	1	2030	2030	2030	21.9	0
15	QPSK	50	2030	2030	2030		0
15	QPSK	50	2030	2030	2030	21.9	0
15	HQAM	1	2030	2030	2030		0
15	HQAM	1	2030	2030	2030	21.9	0
15	HQAM	50	2030	2030	2030		0
15	HQAM	50	2030	2030	2030	21.9	0
15	ZSSB	1	2030	2030	2030		1.0
15	ZSSB	1	2030	2030	2030	21.9	1.0
15	ZSSB	50	2030	2030	2030		1.0
15	ZSSB	50	2030	2030	2030	21.9	1.0

### Band 26(FCC)\_Ant 2

RV (MHz)	Modulation	RB (MHz)	Phase Low Ch. Freq.	Phase Med. Ch. Freq.	Phase High Ch. Freq.	Tune-up (MHz)	MPL (dB)
15	QPSK	1	2270	2270	2270		0
15	QPSK	1	2270	2270	2270	24	0
15	QPSK	50	2270	2270	2270		0
15	QPSK	50	2270	2270	2270	24	0
15	HQAM	1	2270	2270	2270		0
15	HQAM	1	2270	2270	2270	24	0
15	HQAM	50	2270	2270	2270		0
15	HQAM	50	2270	2270	2270	24	0
15	ZSSB	1	2270	2270	2270		2.1
15	ZSSB	1	2270	2270	2270	24	2.1
15	ZSSB	50	2270	2270	2270		2.1
15	ZSSB	50	2270	2270	2270	24	2.1
10	QPSK	1	2270	2270	2270		0
10	QPSK	1	2270	2270	2270	24	0
10	QPSK	50	2270	2270	2270		0
10	QPSK	50	2270	2270	2270	24	0
10	HQAM	1	2270	2270	2270		0
10	HQAM	1	2270	2270	2270	24	0
10	HQAM	50	2270	2270	2270		0
10	HQAM	50	2270	2270	2270	24	0
10	ZSSB	1	2270	2270	2270		2.1
10	ZSSB	1	2270	2270	2270	24	2.1
10	ZSSB	50	2270	2270	2270		2.1
10	ZSSB	50	2270	2270	2270	24	2.1

### Band 26(FCC)\_Ant 1

RV (MHz)	Modulation	RB (MHz)	Phase Low Ch. Freq.	Phase Med. Ch. Freq.	Phase High Ch. Freq.	Tune-up (MHz)	MPL (dB)
15	QPSK	1	2270	2270	2270		0
15	QPSK	1	2270	2270	2270	24	0
15	QPSK	50	2270	2270	2270		0
15	QPSK	50	2270	2270	2270	24	0
15	HQAM	1	2270	2270	2270		0
15	HQAM	1	2270	2270	2270	24	0
15	HQAM	50	2270	2270	2270		0
15	HQAM	50	2270	2270	2270	24	0
15	ZSSB	1	2270	2270	2270		2.1
15	ZSSB	1	2270	2270	2270	24	2.1
15	ZSSB	50	2270	2270	2270		2.1
15	ZSSB	50	2270	2270	2270	24	2.1
10	QPSK	1	2270	2270	2270		0
10	QPSK	1	2270	2270	2270	24	0
10	QPSK	50	2270	2270	2270		0
10	QPSK	50	2270	2270	2270	24	0
10	HQAM	1	2270	2270	2270		0
10	HQAM	1	2270	2270	2270	24	0
10	HQAM	50	2270	2270	2270		0
10	HQAM	50	2270	2270	2270	24	0
10	ZSSB	1	2270	2270	2270		2.1
10	ZSSB	1	2270	2270	2270	24	2.1
10	ZSSB	50	2270	2270	2270		2.1
10	ZSSB	50	2270	2270	2270	24	2.1





Band 66\_Ant 2

Table with columns: BW (MHz), Modulation, RB (MHz), RB (MHz), Power Low Ch (Freq), Power High Ch (Freq), Power High Ch (Freq), Turnup (dB), MPR (dB). Includes sub-headers for Channel and Frequency (MHz).

Band 71\_Ant 0

Table with columns: BW (MHz), Modulation, RB (MHz), RB (MHz), Power Low Ch (Freq), Power High Ch (Freq), Power High Ch (Freq), Turnup (dB), MPR (dB). Includes sub-headers for Channel and Frequency (MHz).

Band 71\_Ant 1

Table with columns: BW (MHz), Modulation, RB (MHz), RB (MHz), Power Low Ch (Freq), Power High Ch (Freq), Power High Ch (Freq), Turnup (dB), MPR (dB). Includes sub-headers for Channel and Frequency (MHz).





















Band 25\_Ant 1

Table with columns: Modulation, RB, Power Low, Power High, T-Value, and LPI. Contains data for various frequencies and power levels.

Band 25\_Ant 2

Table with columns: Modulation, RB, Power Low, Power High, T-Value, and LPI. Contains data for various frequencies and power levels.

Band 26(FCC)\_Ant 0

Table with columns: Modulation, RB, Power Low, Power High, T-Value, and LPI. Contains data for various frequencies and power levels.

Band 26(FCC)\_Ant 1

Table with columns: Modulation, RB, Power Low, Power High, T-Value, and LPI. Contains data for various frequencies and power levels.







### Band 66\_Ant 2

BW (MHz)	Modulation	RB (MHz)	RB (MHz)	Power Low Ch. (W)	Power High Ch. (W)	Turnup (min)	MFR (dB)	Channel		
								132022	132022	132022
20	QPSK	1	0	23.19	23.11	23.18	0			
20	QPSK	1	49	23.22	23.23	23.23	24	0		
20	QPSK	50	0	23.18	23.18	23.26	0			
20	QPSK	50	0	23.05	23.19	23.08	0			
20	QPSK	50	24	23.03	23.23	23.00	24	0		
20	QPSK	100	0	23.15	23.20	23.27	0			
20	16QAM	1	0	23.21	23.23	23.27	0			
20	16QAM	1	49	23.20	23.24	23.28	24	0		
20	16QAM	50	0	22.99	23.16	22.98	0			
20	16QAM	50	24	23.21	23.25	23.24	24	0		
20	16QAM	100	0	22.92	23.25	23.01	0			
20	8QAM	1	0	22.91	23.06	22.98	0			
20	8QAM	1	49	22.96	23.16	23.00	24	0		
20	8QAM	50	0	22.99	23.00	22.99	0			
20	8QAM	50	0	21.72	21.71	21.68	0			
20	8QAM	50	24	21.94	21.95	21.70	23	1		
20	8QAM	100	0	21.67	21.70	21.68	0			
20	8QAM	100	0	21.69	21.68	21.48	0			
20	25QAM	1	0	18.99	18.94	18.93	0			
20	25QAM	1	49	18.98	18.93	18.93	20	4		
20	25QAM	50	0	18.98	18.96	18.94	0			
20	25QAM	50	24	18.97	18.93	18.98	20	4		
20	25QAM	100	0	18.90	18.90	18.97	0			
20	25QAM	100	0	18.91	18.90	18.88	0			

### Band 71\_Ant 0

BW (MHz)	Modulation	RB (MHz)	RB (MHz)	Power Low Ch. (W)	Power High Ch. (W)	Turnup (min)	MFR (dB)	Channel		
								133022	133027	133372
20	QPSK	1	0	23.21	23.12	23.18	0			
20	QPSK	1	49	23.23	23.25	23.21	24	0		
20	QPSK	50	0	23.03	23.20	23.09	0			
20	QPSK	50	0	23.06	23.20	23.17	0			
20	QPSK	50	24	23.21	23.25	23.20	24	0		
20	QPSK	100	0	23.19	23.19	23.18	0			
20	QPSK	100	0	23.18	23.22	23.19	0			
20	16QAM	1	0	23.04	23.25	23.18	0			
20	16QAM	1	49	23.21	23.29	23.17	24	0		
20	16QAM	50	0	22.95	23.20	22.98	0			
20	16QAM	50	24	23.07	23.20	23.05	23	1		
20	16QAM	100	0	22.94	23.28	23.18	0			
20	8QAM	1	0	22.13	22.28	22.42	0			
20	8QAM	1	49	22.17	22.19	22.24	23	1		
20	8QAM	50	0	22.24	22.17	22.24	0			
20	8QAM	50	0	21.36	21.43	21.63	0			
20	8QAM	50	24	21.50	21.44	21.51	22	2		
20	8QAM	100	0	21.81	21.66	21.81	0			
20	8QAM	100	0	21.84	21.45	21.45	0			
20	25QAM	1	0	18.43	18.80	18.43	0			
20	25QAM	1	49	18.43	18.80	18.43	20	4		
20	25QAM	50	0	18.43	18.80	18.43	0			
20	25QAM	50	24	18.42	18.42	18.42	20	4		
20	25QAM	100	0	18.42	18.40	18.39	0			
20	25QAM	100	0	18.43	18.35	18.51	0			

### Band 71\_Ant 1

BW (MHz)	Modulation	RB (MHz)	RB (MHz)	Power Low Ch. (W)	Power High Ch. (W)	Turnup (min)	MFR (dB)	Channel		
								133022	133027	133372
20	QPSK	1	0	22.96	22.88	22.97	0			
20	QPSK	1	49	22.90	23.00	22.82	24	0		
20	QPSK	50	0	22.81	23.09	22.86	0			
20	QPSK	50	0	22.87	23.02	22.78	0			
20	QPSK	50	24	22.87	23.07	22.79	24	0		
20	QPSK	100	0	22.78	23.14	22.70	0			
20	QPSK	100	0	22.76	23.06	22.78	0			
20	16QAM	1	0	22.84	23.03	22.81	0			
20	16QAM	1	49	22.86	23.01	22.88	24	0		
20	16QAM	50	0	22.80	23.07	22.87	0			
20	16QAM	50	24	21.71	21.88	21.61	23	1		
20	16QAM	100	0	21.83	21.91	21.53	0			
20	8QAM	1	0	21.90	22.01	21.69	0			
20	8QAM	1	49	21.85	21.87	21.92	23	1		
20	8QAM	50	0	22.00	21.90	21.89	0			
20	8QAM	50	0	20.70	20.91	20.79	0			
20	8QAM	50	24	20.87	20.81	20.77	22	2		
20	8QAM	100	0	20.78	20.86	20.87	0			
20	25QAM	1	0	18.41	18.48	18.39	0			
20	25QAM	1	49	18.40	18.47	18.37	20	4		
20	25QAM	50	0	18.40	18.45	18.39	0			
20	25QAM	50	24	18.42	18.33	18.42	20	4		
20	25QAM	100	0	18.38	18.41	18.29	0			
20	25QAM	100	0	18.39	18.30	18.39	0			





Band 41 (HPUE)\_Ant 1

Table with columns: BW (MHz), Modulation, RB (MHz), RB Offset, Power Low Ch. (Flux), Power High Ch. (Flux), Power Low Ch. (Flux), Power High Ch. (Flux), Turn-on time (min), MFR (dB), and MFR (dB). Rows include Channel, Frequency (MHz), and various modulation types like QPSK, 16QAM, 64QAM, and 256QAM.

Band 41\_Ant 2

Table with columns: BW (MHz), Modulation, RB (MHz), RB Offset, Power Low Ch. (Flux), Power High Ch. (Flux), Power Low Ch. (Flux), Power High Ch. (Flux), Turn-on time (min), MFR (dB), and MFR (dB). Rows include Channel, Frequency (MHz), and various modulation types like QPSK, 16QAM, 64QAM, and 256QAM.

Band 41 (HPUE)\_Ant 2

Table with columns: BW (MHz), Modulation, RB (MHz), RB Offset, Power Low Ch. (Flux), Power High Ch. (Flux), Power Low Ch. (Flux), Power High Ch. (Flux), Turn-on time (min), MFR (dB), and MFR (dB). Rows include Channel, Frequency (MHz), and various modulation types like QPSK, 16QAM, 64QAM, and 256QAM.





























UL CA Power

CA_5B_Ant 0										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Power Reduction	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	25	0	0		22.93	24.00	
20575	20476	QPSK	1	25	0	0	Default Power	23.00	24.00	
20600	20501	QPSK	1	25	0	0		22.90	24.00	
20450	20549	QPSK	1	25	0	0		22.93	24.00	
20575	20476	QPSK	1	25	0	0	DSI2	23.00	24.00	
20600	20501	QPSK	1	25	0	0		22.90	24.00	
20450	20549	QPSK	1	25	0	0		22.93	24.00	
20575	20476	QPSK	1	25	0	0	DSI3	23.00	24.00	
20600	20501	QPSK	1	25	0	0		22.90	24.00	
20450	20549	QPSK	1	25	0	0		22.93	24.00	
20575	20476	QPSK	1	25	0	0	DSI4	23.00	24.00	
20600	20501	QPSK	1	25	0	0		22.90	24.00	
20450	20549	QPSK	1	25	0	0		22.93	24.00	
20575	20476	QPSK	1	25	0	0	DSI6	22.93	24.00	
20600	20501	QPSK	1	25	0	0		23.00	24.00	
20450	20549	QPSK	1	25	0	0		22.90	24.00	

CA_7C_Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Power Reduction	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	49	0	0	Default Power	21.86	23.00	
21100	21298	QPSK	1	49	0	0		22.06	23.00	
21350	21152	QPSK	1	49	0	0		21.97	23.00	
20850	21048	QPSK	1	49	0	0		15.00	16.10	
21100	21298	QPSK	1	49	0	0	DSI2	14.94	16.10	
21350	21152	QPSK	1	49	0	0		14.97	16.10	
20850	21048	QPSK	1	49	0	0		15.88	17.00	
21100	21298	QPSK	1	49	0	0		15.92	17.00	
21350	21152	QPSK	1	49	0	0	DSI3	15.73	17.00	
20850	21048	QPSK	1	49	0	0		21.86	23.00	
21100	21298	QPSK	1	49	0	0		22.06	23.00	
21350	21152	QPSK	1	49	0	0		21.97	23.00	
20850	21048	QPSK	1	49	0	0	DSI4	18.71	20.00	
21100	21298	QPSK	1	49	0	0		18.80	20.00	
21350	21152	QPSK	1	49	0	0		18.63	20.00	
20850	21048	QPSK	1	49	0	0		18.71	20.00	

CA_5B_Ant 1										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Power Reduction	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	25	0	0	Default Power	22.55	24.00	
20575	20476	QPSK	1	25	0	0		22.88	24.00	
20600	20501	QPSK	1	25	0	0		22.68	24.00	
20450	20549	QPSK	1	25	0	0	DSI2	21.93	23.10	
20575	20476	QPSK	1	25	0	0		21.95	23.10	
20600	20501	QPSK	1	25	0	0		21.85	23.10	
20450	20549	QPSK	1	25	0	0	DSI3	22.55	24.00	
20575	20476	QPSK	1	25	0	0		22.88	24.00	
20600	20501	QPSK	1	25	0	0		22.68	24.00	
20450	20549	QPSK	1	25	0	0	DSI4	22.55	24.00	
20575	20476	QPSK	1	25	0	0		22.88	24.00	
20600	20501	QPSK	1	25	0	0		22.68	24.00	
20450	20549	QPSK	1	25	0	0	DSI6	22.55	24.00	
20575	20476	QPSK	1	25	0	0		22.88	24.00	
20600	20501	QPSK	1	25	0	0		22.68	24.00	

CA_7C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Power Reduction	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	49	0	0	Default Power	23.24	24.00	
21100	21298	QPSK	1	49	0	0		23.34	24.00	
21350	21152	QPSK	1	49	0	0		22.88	24.00	
20850	21048	QPSK	1	49	0	0		23.24	24.00	
21100	21298	QPSK	1	49	0	0	DSI2	23.34	24.00	
21350	21152	QPSK	1	49	0	0		22.88	24.00	
20850	21048	QPSK	1	49	0	0		22.18	22.80	
21100	21298	QPSK	1	49	0	0		22.23	22.80	
21350	21152	QPSK	1	49	0	0	DSI3	21.96	22.80	
20850	21048	QPSK	1	49	0	0		23.24	24.00	
21100	21298	QPSK	1	49	0	0		23.34	24.00	
21350	21152	QPSK	1	49	0	0		22.88	24.00	
20850	21048	QPSK	1	49	0	0	DSI4	21.65	22.60	
21100	21298	QPSK	1	49	0	0		21.79	22.60	
21350	21152	QPSK	1	49	0	0		21.56	22.60	
20850	21048	QPSK	1	49	0	0		21.65	22.60	





CA_66B_Ant 1										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Power Reduction	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	37	0	0		21.94	23.00	
132322	132415	QPSK	1	37	0	0	Default Power	22.03	23.00	
132597	132504	QPSK	1	37	0	0		21.80	23.00	
132047	132140	QPSK	1	37	0	0		16.58	17.60	
132322	132415	QPSK	1	37	0	0	DSI2	16.66	17.60	
132597	132504	QPSK	1	37	0	0		16.55	17.60	
132047	132140	QPSK	1	37	0	0		17.20	18.40	
132322	132415	QPSK	1	37	0	0	DSI3	17.38	18.40	
132597	132504	QPSK	1	37	0	0		17.26	18.40	
132047	132140	QPSK	1	37	0	0		21.94	23.00	
132322	132415	QPSK	1	37	0	0	DSI4	22.03	23.00	
132597	132504	QPSK	1	37	0	0		21.80	23.00	
132047	132140	QPSK	1	37	0	0		19.16	20.20	
132322	132415	QPSK	1	37	0	0	DSI6	19.25	20.20	
132597	132504	QPSK	1	37	0	0		19.07	20.20	

CA_66B_Ant 2										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Power Reduction	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	37	0	0		22.97	24.00	
132322	132415	QPSK	1	37	0	0	Default Power	23.15	24.00	
132597	132504	QPSK	1	37	0	0		23.05	24.00	
132047	132140	QPSK	1	37	0	0		22.97	24.00	
132322	132415	QPSK	1	37	0	0	DSI2	23.15	24.00	
132597	132504	QPSK	1	37	0	0		23.05	24.00	
132047	132140	QPSK	1	37	0	0		21.05	21.90	
132322	132415	QPSK	1	37	0	0	DSI3	21.13	21.90	
132597	132504	QPSK	1	37	0	0		20.93	21.90	
132047	132140	QPSK	1	37	0	0		22.97	24.00	
132322	132415	QPSK	1	37	0	0	DSI4	23.15	24.00	
132597	132504	QPSK	1	37	0	0		23.05	24.00	
132047	132140	QPSK	1	37	0	0		22.32	20.20	
132322	132415	QPSK	1	37	0	0	DSI6	22.36	20.20	
132597	132504	QPSK	1	37	0	0		22.20	20.20	

CA_66C_Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Power Reduction	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	49	0	0		21.98	23.00	
132322	132520	QPSK	1	49	0	0	Default Power	22.05	23.00	
132572	132374	QPSK	1	49	0	0		21.83	23.00	
132072	132270	QPSK	1	49	0	0		16.64	17.60	
132322	132520	QPSK	1	49	0	0	DSI2	16.70	17.60	
132572	132374	QPSK	1	49	0	0		16.65	17.60	
132072	132270	QPSK	1	49	0	0		17.30	18.40	
132322	132520	QPSK	1	49	0	0	DSI3	17.35	18.40	
132572	132374	QPSK	1	49	0	0		17.38	18.40	
132072	132270	QPSK	1	49	0	0		21.98	23.00	
132322	132520	QPSK	1	49	0	0	DSI4	22.05	23.00	
132572	132374	QPSK	1	49	0	0		21.83	23.00	
132072	132270	QPSK	1	49	0	0		19.19	20.20	
132322	132520	QPSK	1	49	0	0	DSI6	19.28	20.20	
132572	132374	QPSK	1	49	0	0		19.09	20.20	

CA_66C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Power Reduction	Measured Power (dBm)	Tune up Power (dBm)	
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	49	0	0		23.05	24.00	
132322	132520	QPSK	1	49	0	0	Default Power	23.17	24.00	
132572	132374	QPSK	1	49	0	0		23.15	24.00	
132072	132270	QPSK	1	49	0	0		23.05	24.00	
132322	132520	QPSK	1	49	0	0	DSI2	23.17	24.00	
132572	132374	QPSK	1	49	0	0		23.15	24.00	
132072	132270	QPSK	1	49	0	0		21.07	21.90	
132322	132520	QPSK	1	49	0	0	DSI3	21.16	21.90	
132572	132374	QPSK	1	49	0	0		21.12	21.90	
132072	132270	QPSK	1	49	0	0		23.05	24.00	
132322	132520	QPSK	1	49	0	0	DSI4	23.17	24.00	
132572	132374	QPSK	1	49	0	0		23.15	24.00	
132072	132270	QPSK	1	49	0	0		22.38	23.20	
132322	132520	QPSK	1	49	0	0	DSI6	22.42	23.20	
132572	132374	QPSK	1	49	0	0		22.27	23.20	







**Full Power Mode&Default Power**

n2_Ant 1									
Channel	Power			Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)	Low Ch / Freq	Middle Ch / Freq	High Ch / Freq						
372000 376000 380000									
20	PLI2 BPSK	1	1	23.15	23.43	23.35	24.0	0.0	
20	PLI2 BPSK	1	53	23.34	23.44	23.31			
20	PLI2 BPSK	1	104	23.40	23.45	23.23			
20	PLI2 BPSK	50	0	22.63	22.90	22.83	23.5	0.5	
20	PLI2 BPSK	50	28	23.22	23.42	23.32	24.0	0.0	
20	PLI2 BPSK	50	56	22.78	22.86	22.68	23.5	0.5	
20	PLI2 BPSK	100	0	22.88	22.88	22.81			
20	QPSK	1	1	23.43	23.50	23.46	24.0	1.0	
20	QPSK	1	53	23.42	23.46	23.44			
20	QPSK	1	104	23.37	23.44	23.37			
20	QPSK	50	0	22.34	22.44	22.40	23.0	1.0	
20	QPSK	50	28	23.36	23.38	23.34	24.0	0.0	
20	QPSK	50	56	22.34	22.38	22.34	23.0	1.0	
20	QPSK	100	0	22.29	22.41	22.40			
20	16QAM	1	1	22.64	22.72	22.69	23.0	1.0	
20	16QAM	1	1	20.84	20.85	20.62	21.5	2.5	
20	256QAM	1	1	18.95	19.07	19.06	19.5	4.5	
371500 376000 380500									
1857.5 1880 1902.5									
15	QPSK	1	1	23.39	23.46	23.31	24.0	0.0	
371000 376000 381000									
1855 1880 1905									
10	QPSK	1	1	23.44	23.38	23.43	24.0	0.0	
370500 376000 381500									
1852.5 1880 1907.5									
5	QPSK	1	1	23.32	23.45	23.48	24.0	0.0	

n2_Ant 2									
Channel	Power			Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)	Low Ch / Freq	Middle Ch / Freq	High Ch / Freq						
372000 376000 380000									
20	PLI2 BPSK	1	1	23.20	23.25	23.31	24.0	0.0	
20	PLI2 BPSK	1	53	23.26	23.37	23.27			
20	PLI2 BPSK	1	104	23.34	23.42	23.10			
20	PLI2 BPSK	50	0	22.84	22.83	22.87	23.5	0.5	
20	PLI2 BPSK	50	28	23.08	23.38	23.12	24.0	0.0	
20	PLI2 BPSK	50	56	22.63	22.83	22.60	23.5	0.5	
20	PLI2 BPSK	100	0	22.81	22.87	22.65			
20	QPSK	1	1	23.26	23.45	23.27	24.0	1.0	
20	QPSK	1	53	23.15	23.42	23.24			
20	QPSK	1	104	23.22	23.41	23.13			
20	QPSK	50	0	22.10	22.33	22.21	23.0	1.0	
20	QPSK	50	28	23.23	23.41	23.34	24.0	0.0	
20	QPSK	50	56	22.16	22.33	22.10	23.0	1.0	
20	QPSK	100	0	22.09	22.36	22.16			
20	16QAM	1	1	22.03	22.29	22.53	23.0	1.0	
20	64QAM	1	1	20.99	20.83	20.74	21.5	2.5	
20	256QAM	1	1	18.55	18.83	19.02	19.5	4.5	
371500 376000 380500									
1857.5 1880 1902.5									
15	QPSK	1	1	22.80	23.39	23.30	24.0	0.0	
371000 376000 381000									
1855 1880 1905									
10	QPSK	1	1	22.79	23.26	23.10	24.0	0.0	
370500 376000 381500									
1852.5 1880 1907.5									
5	QPSK	1	1	23.17	23.35	23.01	24.0	0.0	

n5_Ant 0									
Channel	Power			Tune-up limit (dBm)	MPR (dB)				
Frequency (MHz)	Low Ch / Freq	Middle Ch / Freq	High Ch / Freq						
166800 167300 167800									
834 836.5 839									
20	PLI2 BPSK	1	1	23.17	23.09	23.14	24.0	0.0	
20	PLI2 BPSK	1	53	23.17	23.12	23.16			
20	PLI2 BPSK	1	104	22.67	22.69	22.32			
20	PLI2 BPSK	50	0	22.59	22.67	22.62	23.5	0.5	
20	PLI2 BPSK	50	28	22.58	22.57	22.65	24.0	0.0	
20	PLI2 BPSK	50	56	22.63	22.48	22.45	23.5	0.5	
20	PLI2 BPSK	100	0	22.71	22.83	22.61			
20	QPSK	1	1	23.13	23.18	23.16	24.0	0.0	
20	QPSK	1	53	23.08	23.07	23.12			
20	QPSK	1	104	22.19	22.20	22.28			
20	QPSK	50	0	22.09	22.11	22.10	23.0	1.0	
20	QPSK	50	28	22.10	22.15	22.14	24.0	0.0	
20	QPSK	50	56	22.06	21.93	21.96	23.0	1.0	
20	QPSK	100	0	22.14	22.20	22.18			
20	16QAM	1	1	22.28	22.28	22.09	23.0	1.0	
20	64QAM	1	1	20.90	20.87	20.71	21.5	2.5	
20	256QAM	1	1	18.41	18.48	18.40	19.5	4.5	
166300 167300 168300									
831.5 836.5 841.5									
15	QPSK	1	1	23.14	23.11	22.94	24.0	0.0	
165800 167300 168800									
829 836.5 844									
10	QPSK	1	1	23.14	23.09	23.00	24.0	0.0	
165300 167300 169300									
826.5 836.5 846.5									
5	QPSK	1	1	23.09	23.06	23.00	24.0	0.0	





### n14\_Ant 0

Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel	158000	158000	158100		
Frequency (MHz)	790	793	795.5		
10	Pi/2 BPSK	1	1	22.80	
10	Pi/2 BPSK	1	28	22.77	24.0
10	Pi/2 BPSK	1	50	22.70	23.5
10	Pi/2 BPSK	25	0	22.20	23.5
10	Pi/2 BPSK	25	14	22.82	24.0
10	Pi/2 BPSK	25	27	22.15	23.5
10	Pi/2 BPSK	50	0	22.29	23.5
10	QPSK	1	1	22.83	
10	QPSK	1	28	22.62	24.0
10	QPSK	1	50	22.64	23.0
10	QPSK	25	0	21.78	23.0
10	QPSK	25	14	22.81	24.0
10	QPSK	25	27	21.73	23.0
10	QPSK	50	0	21.78	23.0
10	16QAM	1	1	22.13	23.0
10	64QAM	1	1	20.62	21.5
10	256QAM	1	1	18.06	19.5
Channel	158100	158000	158100		
Frequency (MHz)	790.5	793	795.5		
5	QPSK	1	1	22.80	22.78

### n25\_Ant 1

Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel	372000	376500	381000		
Frequency (MHz)	1860	1882.5	1905		
20	Pi/2 BPSK	1	1	23.28	23.41
20	Pi/2 BPSK	1	53	23.33	23.51
20	Pi/2 BPSK	1	104	23.37	23.48
20	Pi/2 BPSK	50	0	22.77	23.02
20	Pi/2 BPSK	50	28	23.22	23.45
20	Pi/2 BPSK	50	56	22.92	23.04
20	Pi/2 BPSK	100	0	22.85	23.03
20	QPSK	1	1	23.28	23.52
20	QPSK	1	53	23.27	23.48
20	QPSK	1	104	23.26	23.37
20	QPSK	50	0	22.22	22.55
20	QPSK	50	28	23.26	23.50
20	QPSK	50	56	22.43	22.50
20	QPSK	100	0	22.34	22.54
20	16QAM	1	1	22.58	22.53
20	64QAM	1	1	20.62	20.85
20	256QAM	1	1	19.03	19.37
Channel	371500	376500	381500		
Frequency (MHz)	1857.5	1882.5	1907.5		
15	QPSK	1	1	23.31	23.40
Channel	371000	376500	382000		
Frequency (MHz)	1855	1882.5	1910		
10	QPSK	1	1	23.16	23.37
Channel	370500	376500	382500		
Frequency (MHz)	1852.5	1882.5	1912.5		
5	QPSK	1	1	23.13	23.25

### n25\_Ant 2

Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel	372000	376500	381000		
Frequency (MHz)	1860	1882.5	1905		
20	Pi/2 BPSK	1	1	23.13	23.28
20	Pi/2 BPSK	1	53	23.29	23.33
20	Pi/2 BPSK	1	104	23.42	23.37
20	Pi/2 BPSK	50	0	22.62	22.96
20	Pi/2 BPSK	50	28	23.18	23.35
20	Pi/2 BPSK	50	56	22.75	22.90
20	Pi/2 BPSK	100	0	22.71	22.91
20	QPSK	1	1	23.30	23.48
20	QPSK	1	53	23.23	23.36
20	QPSK	1	104	23.24	23.42
20	QPSK	50	0	22.13	22.45
20	QPSK	50	28	23.27	23.45
20	QPSK	50	56	22.31	22.36
20	QPSK	100	0	22.16	22.37
20	16QAM	1	1	22.18	22.25
20	64QAM	1	1	20.58	20.67
20	256QAM	1	1	18.51	18.75
Channel	371500	376500	381500		
Frequency (MHz)	1857.5	1882.5	1907.5		
15	QPSK	1	1	23.20	23.31
Channel	371000	376500	382000		
Frequency (MHz)	1855	1882.5	1910		
10	QPSK	1	1	23.05	23.37
Channel	370500	376500	382500		
Frequency (MHz)	1852.5	1882.5	1912.5		
5	QPSK	1	1	23.21	23.27



### n26\_Ant 0

Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel	164800	166300	167800		
Frequency (MHz)	824	831.5	839		
20 Pi2 BPSK 1 1	23.12	23.07	23.01		
20 Pi2 BPSK 1 53	23.08	23.20	23.14	24.0	0.0
20 Pi2 BPSK 1 104	23.14	23.17	23.19		
20 Pi2 BPSK 50 0	22.82	22.50	22.57	23.5	0.5
20 Pi2 BPSK 50 28	23.08	23.13	23.12	24.0	0.0
20 Pi2 BPSK 50 56	22.82	22.79	22.82		
20 Pi2 BPSK 100 0	22.53	22.58	22.66	23.5	0.5
20 QPSK 1 1	23.19	23.21	23.12		
20 QPSK 1 53	23.10	23.12	23.07	24.0	0.0
20 QPSK 1 104	23.13	23.18	23.10		
20 QPSK 50 0	22.08	22.07	22.10	23.0	1.0
20 QPSK 50 28	23.16	23.19	23.12	24.0	0.0
20 QPSK 50 56	22.27	22.31	22.32		
20 QPSK 100 0	22.09	22.18	22.15	23.0	1.0
20 16QAM 1 1	22.16	22.16	22.18	23.0	1.0
20 84QAM 1 1	20.78	20.75	20.89	21.5	2.5
20 256QAM 1 1	18.23	18.28	18.26	19.5	4.5
Channel	164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	821.5	831.5	841.5		
15 QPSK 1 1	23.17	23.19	23.01	24.0	0.0
Channel	163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	819	831.5	844		
10 QPSK 1 1	23.14	23.11	22.94	24.0	0.0
Channel	163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	816.5	831.5	846.5		
5 QPSK 1 1	23.15	23.17	23.04	24.0	0.0

### n26\_Ant 1

Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel	164800	166300	167800		
Frequency (MHz)	824	831.5	839		
20 Pi2 BPSK 1 1	23.12	23.15	23.12		
20 Pi2 BPSK 1 53	23.10	23.12	23.10	24.0	0.0
20 Pi2 BPSK 1 104	23.16	23.12	23.15		
20 Pi2 BPSK 50 0	22.58	22.57	22.50	23.5	0.5
20 Pi2 BPSK 50 28	23.07	23.12	23.09	24.0	0.0
20 Pi2 BPSK 50 56	22.70	22.74	22.77		
20 Pi2 BPSK 100 0	22.51	22.63	22.57	23.5	0.5
20 QPSK 1 1	23.13	23.17	23.11		
20 QPSK 1 53	23.12	23.15	23.08	24.0	0.0
20 QPSK 1 104	23.07	23.11	23.09		
20 QPSK 50 0	22.03	22.07	22.03	23.0	1.0
20 QPSK 50 28	23.11	23.14	23.08	24.0	0.0
20 QPSK 50 56	22.22	22.27	22.20		
20 QPSK 100 0	22.02	22.11	22.02	23.0	1.0
20 16QAM 1 1	21.67	21.79	21.70	23.0	1.0
20 84QAM 1 1	20.28	20.32	20.28	21.5	2.5
20 256QAM 1 1	18.72	18.73	18.62	19.5	4.5
Channel	164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	821.5	831.5	841.5		
15 QPSK 1 1	23.02	23.08	22.86	24.0	0.0
Channel	163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	819	831.5	844		
10 QPSK 1 1	22.89	23.11	22.84	24.0	0.0
Channel	163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	816.5	831.5	846.5		
5 QPSK 1 1	23.07	22.97	23.14	24.0	0.0

### n30\_Ant 1

Channel	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel	462000	462000	462000		
Frequency (MHz)	2310				
10 Pi2 BPSK 1 1	22.85				
10 Pi2 BPSK 1 26	22.88			24.0	0.0
10 Pi2 BPSK 1 50	22.56				
10 Pi2 BPSK 25 0	22.13			23.5	0.5
10 Pi2 BPSK 25 14	22.63			24.0	0.0
10 Pi2 BPSK 25 27	22.69				
10 Pi2 BPSK 50 0	22.25			23.5	0.5
10 QPSK 1 1	22.89				
10 QPSK 1 26	22.83			24.0	0.0
10 QPSK 1 50	22.74				
10 QPSK 25 0	21.81			23.0	1.0
10 QPSK 25 14	22.85			24.0	0.0
10 QPSK 25 27	21.73				
10 QPSK 50 0	21.90			23.0	1.0
10 16QAM 1 1	21.83			23.0	1.0
10 84QAM 1 1	20.04			21.5	2.5
10 256QAM 1 1	18.18			19.5	4.5
Channel	461500	462000	462500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)	2307.5	2310	2312.5		
5 QPSK 1 1	22.86	22.83	22.78	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				340500					
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1	23.27			24.0	0.0	
15	PI/2 BPSK	1	49	23.23					
15	PI/2 BPSK	1	77	23.18			23.5	0.5	
15	PI/2 BPSK	36	0	22.81			24.0	0.0	
15	PI/2 BPSK	36	22	23.21			23.5	0.5	
15	PI/2 BPSK	36	43	22.71					
15	PI/2 BPSK	75	0	22.85					
15	QPSK	1	1	23.30			24.0	0.0	
15	QPSK	1	49	23.22					
15	QPSK	1	77	23.16			23.0	1.0	
15	QPSK	36	0	22.12			24.0	0.0	
15	QPSK	36	22	23.26			23.0	1.0	
15	QPSK	36	43	22.13					
15	QPSK	75	0	22.23					
15	16QAM	1	1	22.25			23.0	1.0	
15	64QAM	1	1	20.87			21.5	2.5	
15	256QAM	1	1	18.87			19.5	4.5	
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	23.15	23.18	23.06	24.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	23.02	23.26	22.98	24.0	0.0	

n70_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				340500					
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1	22.33			24.0	0.0	
15	PI/2 BPSK	1	49	22.30					
15	PI/2 BPSK	1	77	22.26			23.5	0.5	
15	PI/2 BPSK	36	0	21.89			24.0	0.0	
15	PI/2 BPSK	36	22	22.17			23.5	0.5	
15	PI/2 BPSK	36	43	21.72					
15	PI/2 BPSK	75	0	21.74					
15	QPSK	1	1	22.35			24.0	0.0	
15	QPSK	1	49	22.32					
15	QPSK	1	77	22.25			23.0	1.0	
15	QPSK	36	0	21.14			24.0	0.0	
15	QPSK	36	22	22.32			23.0	1.0	
15	QPSK	36	43	21.24					
15	QPSK	75	0	21.24					
15	16QAM	1	1	21.10			23.0	1.0	
15	64QAM	1	1	20.00			21.5	2.5	
15	256QAM	1	1	17.92			19.5	4.5	
Channel				340000	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	22.31	22.26	22.18	24.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	22.07	22.29	22.09	24.0	0.0	



n71_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mode Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				134600	136100	137600			
Frequency (MHz)				673	690.5	688			
20	PV2 BPSK	1	1	22.72	22.75	22.79			
20	PV2 BPSK	1	53	22.71	22.65	22.75	24.0	0.0	
20	PV2 BPSK	1	104	22.73	22.80	22.80			
20	PV2 BPSK	50	0	21.67	22.28	22.35	23.5	0.5	
20	PV2 BPSK	50	28	22.72	22.74	22.78	24.0	0.0	
20	PV2 BPSK	50	56	21.79	22.14	22.42	23.5	0.5	
20	PV2 BPSK	100	0	21.76	22.22	22.27			
20	QPSK	1	1	22.76	22.84	22.76			
20	QPSK	1	53	22.66	22.68	22.65	24.0	0.0	
20	QPSK	1	104	22.71	22.79	22.74			
20	QPSK	50	0	21.65	21.76	21.73	23.0	1.0	
20	QPSK	50	28	22.73	22.81	22.74	24.0	0.0	
20	QPSK	50	56	21.57	21.66	21.68	23.0	1.0	
20	QPSK	100	0	21.69	21.77	21.76			
20	16QAM	1	1	21.60	21.65	21.67	23.0	1.0	
20	64QAM	1	1	20.29	20.35	20.38	21.5	2.5	
20	256QAM	1	1	17.90	17.95	17.98	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	690.5	690.5			
15	QPSK	1	1	22.74	22.69	22.66	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	690.5	693			
10	QPSK	1	1	22.64	22.73	22.69	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	690.5	695.5			
5	QPSK	1	1	22.72	22.76	22.73	24.0	0.0	

n71_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mode Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				134600	136100	137600			
Frequency (MHz)				673	690.5	688			
20	PV2 BPSK	1	1	22.76	22.83	22.79			
20	PV2 BPSK	1	53	22.69	22.81	22.81	24.0	0.0	
20	PV2 BPSK	1	104	22.69	22.74	22.72			
20	PV2 BPSK	50	0	22.37	22.35	22.29	23.5	0.5	
20	PV2 BPSK	50	28	22.70	22.75	22.73	24.0	0.0	
20	PV2 BPSK	50	56	22.19	22.28	22.16	23.5	0.5	
20	PV2 BPSK	100	0	22.34	22.37	22.25			
20	QPSK	1	1	22.80	22.84	22.79			
20	QPSK	1	53	22.67	22.76	22.73	24.0	0.0	
20	QPSK	1	104	22.76	22.82	22.78			
20	QPSK	50	0	21.76	21.78	21.74	23.0	1.0	
20	QPSK	50	28	22.76	22.80	22.77	24.0	0.0	
20	QPSK	50	56	21.72	21.71	21.65	23.0	1.0	
20	QPSK	100	0	21.67	21.76	21.69			
20	16QAM	1	1	21.65	21.75	21.77	23.0	1.0	
20	64QAM	1	1	19.98	19.98	19.88	21.5	2.5	
20	256QAM	1	1	18.52	18.53	18.53	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	690.5	690.5			
15	QPSK	1	1	22.78	22.76	22.80	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	690.5	693			
10	QPSK	1	1	22.67	22.68	22.71	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	690.5	695.5			
5	QPSK	1	1	22.71	22.82	22.67	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)								
40	PI/2 BPSK	1	1	23.14	23.35	23.13	24.0	0.0
40	PI/2 BPSK	1	53	23.10	23.30	23.11		
40	PI/2 BPSK	1	104	23.07	23.33	23.07		
40	PI/2 BPSK	50	0	23.05	23.28	23.04	24.0	0.0
40	PI/2 BPSK	50	28	23.11	23.33	23.10		
40	PI/2 BPSK	50	56	23.07	23.30	23.05		
40	PI/2 BPSK	100	0	23.08	23.31	23.02	24.0	0.0
40	QPSK	1	1	23.16	23.36	23.15		
40	QPSK	1	53	23.08	23.29	23.08		
40	QPSK	1	104	23.12	23.27	23.10	24.0	0.0
40	QPSK	50	0	23.09	23.23	23.07		
40	QPSK	50	28	23.13	23.33	23.12		
40	QPSK	50	56	23.06	23.29	23.11	24.0	0.0
40	QPSK	100	0	23.10	23.32	23.08		
40	16QAM	1	1	22.98	23.29	23.00		
40	64QAM	1	1	21.54	21.82	21.45	22.5	1.5
40	256QAM	1	1	19.98	19.83	19.68	20.5	3.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.09	23.27	23.29	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.87	23.15	23.09	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.82	23.08	23.16	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.82	23.14	23.15	24.0	0.0

Part96\_n48\_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)								
40	PI/2 BPSK	1	1	22.95	23.07	22.82	24.0	0.0
40	PI/2 BPSK	1	53	22.92	23.02	22.84		
40	PI/2 BPSK	1	104	22.88	22.98	22.83		
40	PI/2 BPSK	50	0	22.86	22.95	22.81	24.0	0.0
40	PI/2 BPSK	50	28	22.93	23.05	22.79		
40	PI/2 BPSK	50	56	22.91	23.00	22.86		
40	PI/2 BPSK	100	0	22.90	23.02	22.77	24.0	0.0
40	QPSK	1	1	22.98	23.10	22.84		
40	QPSK	1	53	22.89	23.04	22.71		
40	QPSK	1	104	22.90	23.00	22.87	24.0	0.0
40	QPSK	50	0	22.92	22.95	22.73		
40	QPSK	50	28	22.95	23.07	22.91		
40	QPSK	50	56	22.87	23.02	22.86	24.0	0.0
40	QPSK	100	0	22.94	23.05	22.78		
40	16QAM	1	1	22.95	22.99	22.75		
40	64QAM	1	1	21.13	21.28	21.02	22.5	1.5
40	256QAM	1	1	19.98	19.45	19.33	20.5	3.5
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.94	22.97	22.95	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.87	22.87	22.89	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.94	22.98	22.93	24.0	0.0
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.91	22.97	22.86	24.0	0.0

Part27Q\_n77\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI/2 BPSK	1	1	23.39			24.0	0.0
100	PI/2 BPSK	1	137	23.40				
100	PI/2 BPSK	1	271	23.42				
100	PI/2 BPSK	135	0	23.43			24.0	0.0
100	PI/2 BPSK	135	69	23.39				
100	PI/2 BPSK	135	138	23.42				
100	PI/2 BPSK	270	0	23.36			24.0	0.0
100	QPSK	1	1	23.45				
100	QPSK	1	137	23.40				
100	QPSK	1	271	23.02			24.0	0.0
100	QPSK	135	0	23.35				
100	QPSK	135	69	23.43				
100	QPSK	135	138	23.40			24.0	0.0
100	QPSK	270	0	23.43				
100	16QAM	1	1	23.04				
100	64QAM	1	1	23.12			24.0	0.0
100	256QAM	1	1	21.92			22.5	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	23.15	23.38	23.28	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	23.22	23.30	23.31	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.97	23.34	23.13	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	23.08	23.39	23.25	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	23.12	23.40	23.00	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.95	23.36	23.19	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.04	23.16	23.21	24.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	23.17	23.28	23.02	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.98	23.33	23.12	24.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	22.93	23.20	23.10	24.0	0.0
Channel								
Frequency (MHz)								
10	PI/2 BPSK	1	1	23.23	23.19	23.09	24.0	0.0





















Reduced Power Mode for DS12

n2\_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)				1860	1880	1900			
20	PV2 BPSK	1	1	15.84	15.89	15.89			
20	PV2 BPSK	1	53	15.80	15.77	15.71	16.5	0.0	
20	PV2 BPSK	1	104	15.78	15.82	15.75			
20	PV2 BPSK	50	0	15.75	15.79	15.85	16.5	0.0	
20	PV2 BPSK	50	38	15.78	15.69	15.75	16.5	0.0	
20	PV2 BPSK	50	56	15.64	15.96	15.77			
20	PV2 BPSK	100	0	15.71	15.83	15.68	16.5	0.0	
20	QPSK	1	1	15.81	15.90	15.85			
20	QPSK	1	53	15.79	15.82	15.71	16.5	0.0	
20	QPSK	1	104	15.75	15.88	15.77			
20	QPSK	50	0	15.75	15.82	15.79	16.5	0.0	
20	QPSK	50	38	15.78	15.68	15.63	16.5	0.0	
20	QPSK	50	56	15.74	15.78	15.79			
20	QPSK	100	0	15.75	15.85	15.78	16.5	0.0	
20	16QAM	1	1	15.71	15.74	15.85	16.5	0.0	
20	64QAM	1	1	15.64	15.74	15.81	18.5	0.0	
20	256QAM	1	1	15.65	15.81	15.81	16.5	0.0	
Channel									
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	15.85	15.79	15.72	16.5	0.0	
Channel									
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	15.82	15.87	15.75	16.5	0.0	
Channel									
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	15.25	15.90	15.75	16.5	0.0	

n2\_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)				1860	1880	1900			
20	PV2 BPSK	1	1	23.20	23.25	23.31			
20	PV2 BPSK	1	53	23.28	23.37	23.27	24.0	0.0	
20	PV2 BPSK	1	104	23.34	23.42	23.10			
20	PV2 BPSK	50	0	22.84	22.83	22.87	23.5	0.5	
20	PV2 BPSK	50	28	23.08	23.38	23.12	24.0	0.0	
20	PV2 BPSK	50	56	22.63	22.83	22.60			
20	PV2 BPSK	100	0	22.61	22.87	22.65	23.5	0.5	
20	QPSK	1	1	23.26	23.45	23.27			
20	QPSK	1	53	23.15	23.42	23.24	24.0	0.0	
20	QPSK	1	104	23.22	23.41	23.13			
20	QPSK	50	0	22.16	22.33	22.21	23.0	1.0	
20	QPSK	50	28	23.23	23.41	23.24	24.0	0.0	
20	QPSK	50	56	22.16	22.33	22.10			
20	QPSK	100	0	22.09	22.36	22.16	23.0	1.0	
20	16QAM	1	1	22.03	22.29	22.53	23.0	1.0	
20	64QAM	1	1	20.59	20.63	20.74	21.5	2.5	
20	256QAM	1	1	18.55	18.83	18.62	19.5	4.5	
Channel									
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	22.80	23.39	23.30	24.0	0.0	
Channel									
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	22.79	23.26	23.10	24.0	0.0	
Channel									
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	18.25	18.80	18.75	24.0	0.0	

n5\_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)				166800	167300	167800			
20	PV2 BPSK	1	1	834	836.5	839			
20	PV2 BPSK	1	53	23.17	23.09	23.14	24.0	0.0	
20	PV2 BPSK	1	104	23.17	23.12	23.16			
20	PV2 BPSK	50	0	22.59	22.67	22.62	23.5	0.5	
20	PV2 BPSK	50	28	22.58	22.57	22.65	24.0	0.0	
20	PV2 BPSK	50	56	22.83	22.48	22.45			
20	PV2 BPSK	100	0	22.71	22.63	22.61	23.5	0.5	
20	QPSK	1	1	23.13	23.18	23.16			
20	QPSK	1	53	23.08	23.07	23.12	24.0	0.0	
20	QPSK	1	104	22.19	22.20	22.28			
20	QPSK	50	0	22.09	22.11	22.10	23.0	1.0	
20	QPSK	50	28	22.10	22.15	22.14	24.0	0.0	
20	QPSK	50	56	22.06	21.93	21.98			
20	QPSK	100	0	22.14	22.20	22.18	23.0	1.0	
20	16QAM	1	1	22.28	22.28	22.09	23.0	1.0	
20	64QAM	1	1	20.90	20.67	20.71	21.5	2.5	
20	256QAM	1	1	18.41	18.48	18.40	19.5	4.5	
Channel									
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	1	23.14	23.11	22.94	24.0	0.0	
Channel									
Frequency (MHz)				165800	167300	166800	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	1	829	836.5	844	24.0	0.0	
Channel									
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	1	23.09	23.06	23.00	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				166900	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.10	23.09	23.08	24.0	0.0
20	PI2 BPSK	1	53	23.05	23.05	23.14		
20	PI2 BPSK	1	104	23.07	23.10	22.27		
20	PI2 BPSK	50	0	22.83	22.82	22.85	23.5	0.5
20	PI2 BPSK	50	28	23.05	23.01	23.14	24.0	0.0
20	PI2 BPSK	50	56	22.88	22.83	22.40	23.5	0.5
20	PI2 BPSK	100	0	22.81	22.79	22.77		
20	QPSK	1	1	23.04	23.15	23.05		
20	QPSK	1	53	22.99	23.06	23.01	24.0	0.0
20	QPSK	1	104	22.59	22.62	22.61		
20	QPSK	50	0	22.73	22.71	22.71	23.0	1.0
20	QPSK	50	28	22.95	23.07	23.07	24.0	0.0
20	QPSK	50	56	21.99	21.97	21.90	23.0	1.0
20	QPSK	100	0	22.00	22.04	22.03		
20	16QAM	1	1	22.13	22.10	22.08	23.0	1.0
20	64QAM	1	1	20.45	20.47	20.45	21.5	2.5
20	256QAM	1	1	18.59	18.62	18.60	19.5	4.5
Channel				165900	167300	168900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844.5		
15	QPSK	1	1	22.92	23.08	23.10	24.0	0.0
Channel				165800	167300	168900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.88	23.11	22.95	24.0	0.0
Channel				165300	167300	169500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	23.03	22.97	22.90	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				594000	507000	510000		
Frequency (MHz)				2620	2535	2550		
40	PI2 BPSK	1	1	14.75	14.73	14.47	15.5	0.0
40	PI2 BPSK	1	108	14.56	14.78	14.84		
40	PI2 BPSK	1	214	14.49	14.71	14.49		
40	PI2 BPSK	108	0	14.73	14.78	14.79	15.5	0.0
40	PI2 BPSK	108	54	14.62	14.64	14.65	15.5	0.0
40	PI2 BPSK	108	108	14.68	14.74	14.54	15.5	0.0
40	PI2 BPSK	216	0	14.70	14.64	14.53		
40	QPSK	1	1	14.77	14.81	14.76		
40	QPSK	1	108	14.53	14.77	14.78	15.5	0.0
40	QPSK	1	214	14.71	14.69	14.68		
40	QPSK	108	0	14.60	14.75	14.72	15.5	0.0
40	QPSK	108	54	14.75	14.79	14.75	15.5	0.0
40	QPSK	108	108	14.39	14.69	14.65	15.5	0.0
40	QPSK	216	0	14.70	14.76	14.67		
40	16QAM	1	1	14.55	14.63	14.37	15.5	0.0
40	64QAM	1	1	14.47	14.74	14.57	15.5	0.0
40	256QAM	1	1	14.53	14.78	14.52	15.5	0.0
Channel				509000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
30	QPSK	1	1	14.65	14.68	14.69	15.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	QPSK	1	1	14.63	14.58	14.58	15.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	1	14.39	14.39	14.45	15.5	0.0
Channel				591500	507000	519500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	14.70	14.67	14.63	15.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	14.80	14.63	14.60	15.5	0.0
Channel				593500	507000	519500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	14.47	14.74	14.47	15.5	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				141900	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	23.15	23.14	23.16	24.0	0.0
15	PI2 BPSK	1	40	23.11	23.11	23.16		
15	PI2 BPSK	1	77	23.17	23.11	23.19		
15	PI2 BPSK	36	0	22.61	22.72	22.69	23.5	0.5
15	PI2 BPSK	36	22	23.11	23.17	23.16	24.0	0.0
15	PI2 BPSK	36	43	22.78	22.78	22.78	23.5	0.5
15	PI2 BPSK	75	0	22.79	22.72	22.73		
15	QPSK	1	1	23.16	23.22	23.18		
15	QPSK	1	40	23.12	23.20	23.17	24.0	0.0
15	QPSK	1	77	23.15	23.18	23.14		
15	QPSK	36	0	22.16	22.16	22.16	23.0	1.0
15	QPSK	36	22	23.13	23.20	23.18	24.0	0.0
15	QPSK	36	43	22.27	22.11	22.24	23.0	1.0
15	QPSK	75	0	22.24	22.27	22.28		
15	16QAM	1	1	21.67	22.15	22.45	23.0	1.0
15	64QAM	1	1	20.68	20.86	21.02	21.5	2.5
15	256QAM	1	1	18.29	18.24	18.52	19.5	4.5
Channel				140800	141500	142200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	23.06	23.12	23.02	24.0	0.0
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	23.02	23.16	23.07	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				158500				
Frequency (MHz)				793				
10	PI2 BPSK	1	1	22.80				
10	PI2 BPSK	1	26	22.77			24.0	0.0
10	PI2 BPSK	1	50	22.70				
10	PI2 BPSK	25	0	22.29			23.5	0.5
10	PI2 BPSK	25	14	22.82			24.0	0.0
10	PI2 BPSK	25	27	22.15				
10	PI2 BPSK	50	0	22.29			23.5	0.5
10	PI2 BPSK	1	1	22.83				
10	QPSK	1	26	22.82			24.0	0.0
10	QPSK	1	50	22.84				
10	QPSK	25	0	21.76			23.0	1.0
10	QPSK	25	14	22.81			24.0	0.0
10	QPSK	25	27	21.73				
10	QPSK	50	0	21.78			23.0	1.0
10	16QAM	1	1	22.13			23.0	1.0
10	64QAM	1	1	20.82			21.5	2.5
10	256QAM	1	1	18.08			19.5	4.5
Channel				158100	158900	159100		
Frequency (MHz)				793.5	793	795.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.80	22.78	22.67	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				372000	376500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	15.87	15.85	15.87		
20	PI2 BPSK	1	53	15.90	15.91	15.81	16.5	0.0
20	PI2 BPSK	1	104	15.78	15.82	15.71		
20	PI2 BPSK	50	0	15.81	15.88	15.78	16.5	0.0
20	PI2 BPSK	50	28	15.85	15.91	15.82	16.5	0.0
20	PI2 BPSK	50	56	15.85	15.87	15.86		
20	PI2 BPSK	100	0	15.78	15.91	15.86	16.5	0.0
20	QPSK	1	1	15.70	15.92	15.87		
20	QPSK	1	53	15.45	15.72	15.78	16.5	0.0
20	QPSK	1	104	15.88	15.90	15.87		
20	QPSK	50	0	15.85	15.89	15.83	16.5	0.0
20	QPSK	50	28	15.88	15.91	15.85	16.5	0.0
20	QPSK	50	56	15.85	15.87	15.83		
20	QPSK	100	0	15.81	15.89	15.81	16.5	0.0
20	16QAM	1	1	15.73	15.78	15.65	16.5	0.0
20	64QAM	1	1	15.60	15.81	15.88	16.5	0.0
20	256QAM	1	1	15.58	15.77	15.71	16.5	0.0
Channel				371500	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	15.43	15.83	15.48	16.5	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	15.41	15.81	15.43	16.5	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	15.37	15.50	15.30	16.5	0.0

**n25\_Ant 2**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376500	381000		
Frequency (MHz)				1860	1882.5	1905		
20	PI2 BPSK	1	1	23.13	23.28	23.22		
20	PI2 BPSK	1	53	23.29	23.33	23.23	24.0	0.0
20	PI2 BPSK	1	104	23.42	23.37	23.19		
20	PI2 BPSK	50	0	22.82	22.96	22.81	23.5	0.5
20	PI2 BPSK	50	28	23.18	23.35	23.31	24.0	0.0
20	PI2 BPSK	50	56	22.75	22.90	22.64		
20	PI2 BPSK	100	0	22.71	22.91	22.83	23.5	0.5
20	QPSK	1	1	23.30	23.48	23.32		
20	QPSK	1	53	23.23	23.36	23.30	24.0	0.0
20	QPSK	1	104	23.24	23.42	23.19		
20	QPSK	50	0	22.19	22.45	22.30	23.0	1.0
20	QPSK	50	28	23.27	23.45	23.30	24.0	0.0
20	QPSK	50	56	22.31	22.38	22.13		
20	QPSK	100	0	22.16	22.37	22.27	23.0	1.0
20	16QAM	1	1	22.18	22.25	22.40	23.0	1.0
20	64QAM	1	1	20.58	20.67	20.94	21.5	2.5
20	256QAM	1	1	18.51	18.75	18.89	19.5	4.5
Channel				371500	376500	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	23.20	23.31	23.38	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	23.05	23.37	23.10	24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	23.21	23.27	23.18	24.0	0.0



### n26\_Ant 0

Channel	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					164900	166300	167900		
Frequency (MHz)					824	831.5	839		
20	PI2 BPSK	1	1		23.12	23.07	23.01		
20	PI2 BPSK	1	53		23.08	23.20	23.14	24.0	0.0
20	PI2 BPSK	1	104		23.14	23.17	23.19		
20	PI2 BPSK	50	0		22.82	22.50	22.57	23.5	0.5
20	PI2 BPSK	50	28		23.08	23.13	23.12	24.0	0.0
20	PI2 BPSK	50	56		22.82	22.79	22.82		
20	PI2 BPSK	100	0		22.53	22.58	22.66	23.5	0.5
20	QPSK	1	1		23.18	23.21	23.12		
20	QPSK	1	53		23.10	23.12	23.07	24.0	0.0
20	QPSK	1	104		23.13	23.18	23.10		
20	QPSK	50	0		22.98	22.87	22.10	23.0	1.0
20	QPSK	50	28		23.18	23.19	23.12	24.0	0.0
20	QPSK	50	56		22.27	22.31	22.32		
20	QPSK	100	0		22.09	22.18	22.15	23.0	1.0
20	16QAM	1	1		22.16	22.16	22.18	23.0	1.0
20	64QAM	1	1		20.78	20.75	20.89	21.5	2.5
20	256QAM	1	1		18.23	18.26	18.26	19.5	4.5
Channel					163300	166300	168900		
Frequency (MHz)					819	831.5	844		
15	QPSK	1	1		23.17	23.19	23.01	24.0	0.0
Channel					163800	166300	168900		
Frequency (MHz)					819	831.5	844		
10	QPSK	1	1		23.14	23.11	22.94	24.0	0.0
Channel					163300	166300	169300		
Frequency (MHz)					816.5	831.5	846.5		
5	QPSK	1	1		23.15	23.17	23.04	24.0	0.0

### n26\_Ant 1

Channel	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					164900	166300	167900		
Frequency (MHz)					824	831.5	839		
20	PI2 BPSK	1	1		23.12	23.15	23.12		
20	PI2 BPSK	1	53		23.10	23.12	23.10	24.0	0.0
20	PI2 BPSK	1	104		23.16	23.12	23.15		
20	PI2 BPSK	50	0		22.58	22.57	22.50	23.5	0.5
20	PI2 BPSK	50	28		23.07	23.12	23.09	24.0	0.0
20	PI2 BPSK	50	56		22.70	22.74	22.77		
20	PI2 BPSK	100	0		22.51	22.63	22.57	23.5	0.5
20	QPSK	1	1		23.13	23.17	23.11		
20	QPSK	1	53		23.12	23.15	23.06	24.0	0.0
20	QPSK	1	104		23.07	23.11	23.09		
20	QPSK	50	0		22.93	22.87	22.08	23.0	1.0
20	QPSK	50	28		23.11	23.14	23.08	24.0	0.0
20	QPSK	50	56		22.22	22.27	22.20		
20	QPSK	100	0		22.02	22.11	22.02	23.0	1.0
20	16QAM	1	1		21.67	21.79	21.70	23.0	1.0
20	64QAM	1	1		20.25	20.32	20.26	21.5	2.5
20	256QAM	1	1		18.72	18.73	18.62	19.5	4.5
Channel					163300	166300	168300		
Frequency (MHz)					819	831.5	844		
15	QPSK	1	1		23.02	23.08	22.86	24.0	0.0
Channel					163800	166300	168900		
Frequency (MHz)					819	831.5	844		
10	QPSK	1	1		22.89	23.11	22.84	24.0	0.0
Channel					163300	166300	169300		
Frequency (MHz)					816.5	831.5	846.5		
5	QPSK	1	1		23.07	22.97	23.14	24.0	0.0

### n30\_Ant 1

Channel	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					482000	482000			
Frequency (MHz)					2310				
10	PI2 BPSK	1	1		15.91				
10	PI2 BPSK	1	26		15.87			17.0	0.0
10	PI2 BPSK	1	50		15.95				
10	PI2 BPSK	25	0		15.81			17.0	0.0
10	PI2 BPSK	25	14		15.87			17.0	0.0
10	PI2 BPSK	25	27		15.93				
10	PI2 BPSK	50	0		15.91			17.0	0.0
10	QPSK	1	1		15.98				
10	QPSK	1	26		15.94			17.0	0.0
10	QPSK	1	50		15.93				
10	QPSK	25	0		15.92			17.0	0.0
10	QPSK	25	14		15.97			17.0	0.0
10	QPSK	25	27		15.90				
10	QPSK	50	0		15.95			17.0	0.0
10	16QAM	1	1		15.88			17.0	0.0
10	64QAM	1	1		15.86			17.0	0.0
10	256QAM	1	1		15.87			17.0	0.0
Channel					481000	482000	482000		
Frequency (MHz)					2307.5	2310	2312.5		
5	QPSK	1	1		15.92	15.79	15.91	17.0	0.0



n30_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				462000				
Frequency (MHz)				2310				
10	Pi/2 BPSK	1	1	21.96				
10	Pi/2 BPSK	1	26	21.95			23.0	0.0
10	Pi/2 BPSK	1	50	21.92				
10	Pi/2 BPSK	25	0	21.44			22.5	0.5
10	Pi/2 BPSK	25	14	21.96			23.0	0.0
10	Pi/2 BPSK	25	27	21.42				
10	Pi/2 BPSK	50	0	21.44			22.5	0.5
10	QPSK	1	1	22.00				
10	QPSK	1	26	21.96			23.0	0.0
10	QPSK	1	50	21.97				
10	QPSK	25	0	20.86			22.0	1.0
10	QPSK	25	14	21.97			23.0	0.0
10	QPSK	25	27	20.96				
10	QPSK	50	0	20.93			22.0	1.0
10	16QAM	1	1	20.85			22.0	1.0
10	64QAM	1	1	19.30			20.5	2.5
10	256QAM	1	1	17.37			18.5	4.5
Channel				461800	462000	462000		
Frequency (MHz)				2307.5	2310	2312.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	21.94	21.94	21.89	23.0	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				349000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	Pi/2 BPSK	1	1	16.57	16.65	16.51		
40	Pi/2 BPSK	1	108	16.68	16.69	16.57	17.5	0.0
40	Pi/2 BPSK	1	214	16.46	16.51	16.43		
40	Pi/2 BPSK	108	0	16.59	16.62	16.53	17.0	0.5
40	Pi/2 BPSK	108	54	16.58	16.61	16.58	17.5	0.0
40	Pi/2 BPSK	108	108	16.56	16.66	16.63		
40	Pi/2 BPSK	216	0	16.57	16.67	16.59	17.0	0.5
40	QPSK	1	1	16.70	16.71	16.70		
40	QPSK	1	108	16.45	16.54	16.50	17.5	0.0
40	QPSK	1	214	16.41	16.48	16.48		
40	QPSK	108	0	16.55	16.67	16.65	17.5	0.0
40	QPSK	108	54	16.61	16.69	16.68	17.5	0.0
40	QPSK	108	108	16.54	16.68	16.65		
40	QPSK	216	0	16.63	16.64	16.63	17.5	0.0
40	16QAM	1	1	16.29	16.27	16.25	17.5	0.0
40	64QAM	1	1	16.23	16.42	16.22	17.5	0.0
40	256QAM	1	1	16.24	16.51	16.57	17.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	16.66	16.61	16.63	17.5	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	16.66	16.66	16.70	17.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	16.56	16.59	16.60	17.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	16.67	16.70	16.61	17.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	16.60	16.63	16.66	17.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	16.59	16.68	16.61	17.5	0.0

n66_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				349000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	Pi/2 BPSK	1	1	23.15	23.17	23.08		
40	Pi/2 BPSK	1	108	23.14	23.14	22.99	24.0	0.0
40	Pi/2 BPSK	1	214	22.83	23.12	22.86		
40	Pi/2 BPSK	108	0	22.95	22.82	22.86	23.5	0.5
40	Pi/2 BPSK	108	54	22.95	23.13	23.00	24.0	0.0
40	Pi/2 BPSK	108	108	23.15	22.86	22.77		
40	Pi/2 BPSK	216	0	22.80	22.81	22.72	23.5	0.5
40	QPSK	1	1	23.16	23.19	22.89		
40	QPSK	1	108	23.15	23.18	22.78	24.0	0.0
40	QPSK	1	214	23.14	23.09	22.86		
40	QPSK	108	0	22.95	22.18	22.08	23.0	1.0
40	QPSK	108	54	23.13	23.17	22.97	24.0	0.0
40	QPSK	108	108	22.21	22.38	22.11		
40	QPSK	216	0	22.21	22.29	22.13	23.0	1.0
40	16QAM	1	1	22.64	22.57	22.62	23.0	1.0
40	64QAM	1	1	20.41	20.57	20.70	21.5	2.5
40	256QAM	1	1	18.86	18.97	18.88	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	23.15	23.13	22.84	24.0	0.0
Channel				344500	349000	353500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1722.5	1745	1767.5		
25	QPSK	1	1	23.07	23.18	22.92	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	23.17	23.11	22.98	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	23.11	23.14	22.88	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	23.01	23.14	22.98	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	23.05	23.07	22.73	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				340500					
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1		18.30				
15	PI/2 BPSK	1	40		18.33		19.0	0.0	
15	PI/2 BPSK	1	77		18.32				
15	PI/2 BPSK	36	0		18.28		19.0	0.0	
15	PI/2 BPSK	36	22		18.24		19.0	0.0	
15	PI/2 BPSK	36	43		18.19		19.0	0.0	
15	PI/2 BPSK	75	0		18.29				
15	QPSK	1	1		18.37				
15	QPSK	1	40		18.34		19.0	0.0	
15	QPSK	1	77		18.21				
15	QPSK	36	0		18.28		19.0	0.0	
15	QPSK	36	22		18.35		19.0	0.0	
15	QPSK	36	43		18.23		19.0	0.0	
15	QPSK	75	0		18.33				
15	16QAM	1	1		18.17		19.0	0.0	
15	64QAM	1	1		18.31		19.0	0.0	
15	256QAM	1	1		18.28		19.0	0.0	
Channel				349000	340500	341900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1		18.29	18.24	18.22	19.0	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1		18.24	18.23	18.22	19.0	0.0

n70_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				340500					
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1		22.33				
15	PI/2 BPSK	1	40		22.30		24.0	0.0	
15	PI/2 BPSK	1	77		22.28				
15	PI/2 BPSK	36	0		21.59		23.5	0.5	
15	PI/2 BPSK	36	22		22.17		24.0	0.0	
15	PI/2 BPSK	36	43		21.72		23.5	0.5	
15	PI/2 BPSK	75	0		21.74				
15	QPSK	1	1		22.35				
15	QPSK	1	40		22.32		24.0	0.0	
15	QPSK	1	77		22.25				
15	QPSK	36	0		21.14		23.0	1.0	
15	QPSK	36	22		22.32		24.0	0.0	
15	QPSK	36	43		21.24		23.0	1.0	
15	QPSK	75	0		21.24				
15	16QAM	1	1		21.10		23.0	1.0	
15	64QAM	1	1		20.00		21.5	2.5	
15	256QAM	1	1		17.92		19.5	4.5	
Channel				349000	340500	341900	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1		22.31	22.26	22.18	24.0	0.0
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1		22.07	22.29	22.09	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				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI/2 BPSK	1	1	22.72	22.75	22.79			
20	PI/2 BPSK	1	53	22.71	22.65	22.75	24.0	0.0	
20	PI/2 BPSK	1	104	22.73	22.80	22.80			
20	PI/2 BPSK	50	0	21.87	22.28	22.15	23.5	0.5	
20	PI/2 BPSK	50	26	22.72	22.74	22.78	24.0	0.0	
20	PI/2 BPSK	50	56	21.78	22.14	22.42			
20	PI/2 BPSK	100	0	21.76	22.22	22.27	23.5	0.5	
20	QPSK	1	1	22.76	22.84	22.76			
20	QPSK	1	53	22.66	22.68	22.65	24.0	0.0	
20	QPSK	1	104	22.71	22.79	22.74			
20	QPSK	50	0	21.65	21.76	21.73	23.0	1.0	
20	QPSK	50	26	22.74	22.81	22.74	24.0	0.0	
20	QPSK	50	56	21.57	21.66	21.68			
20	QPSK	100	0	21.69	21.77	21.76	23.0	1.0	
20	16QAM	1	1	21.60	21.65	21.67	23.0	1.0	
20	64QAM	1	1	20.29	20.35	20.38	21.5	2.5	
20	256QAM	1	1	17.90	17.95	17.98	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.74	22.69	22.66	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.64	22.73	22.59	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.72	22.76	22.73	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				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI/2 BPSK	1	1	22.76	22.83	22.79			
20	PI/2 BPSK	1	53	22.69	22.81	22.81	24.0	0.0	
20	PI/2 BPSK	1	104	22.69	22.74	22.72			
20	PI/2 BPSK	50	0	22.37	22.35	22.29	23.5	0.5	
20	PI/2 BPSK	50	26	22.70	22.75	22.73	24.0	0.0	
20	PI/2 BPSK	50	56	22.19	22.28	22.16			
20	PI/2 BPSK	100	0	22.34	22.37	22.25	23.5	0.5	
20	QPSK	1	1	22.80	22.84	22.79			
20	QPSK	1	53	22.67	22.76	22.73	24.0	0.0	
20	QPSK	1	104	22.78	22.82	22.78			
20	QPSK	50	0	21.76	21.78	21.74	23.0	1.0	
20	QPSK	50	26	22.76	22.80	22.77	24.0	0.0	
20	QPSK	50	56	21.72	21.71	21.65			
20	QPSK	100	0	21.67	21.76	21.69	23.0	1.0	
20	16QAM	1	1	21.65	21.75	21.77	23.0	1.0	
20	64QAM	1	1	19.98	19.98	19.88	21.5	2.5	
20	256QAM	1	1	18.52	18.53	18.53	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.78	22.76	22.80	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.67	22.68	22.71	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.71	22.82	22.67	24.0	0.0	











### Part96\_n48\_Ant 3

Channel	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					638000	641666	645332		
Frequency (MHz)					3570	3624.99	3679.98		
40	PI2 BPSK	1	1		18.56	18.65	18.63		
40	PI2 BPSK	1	53		18.66	18.81	18.72	19.5	0.0
40	PI2 BPSK	1	104		18.80	18.80	18.70		
40	PI2 BPSK	50	0		18.67	18.77	18.76	19.5	0.0
40	PI2 BPSK	50	28		18.61	18.64	18.51	19.5	0.0
40	PI2 BPSK	50	56		18.61	18.73	18.68		
40	PI2 BPSK	100	0		18.69	18.69	18.59	19.5	0.0
40	QPSK	1	1		18.47	18.82	18.63		
40	QPSK	1	53		18.76	18.94	18.83	19.5	0.0
40	QPSK	1	104		18.68	18.72	18.72		
40	QPSK	50	0		18.67	18.64	18.63		
40	QPSK	50	28		18.73	18.82	18.80	19.5	0.0
40	QPSK	50	56		18.57	18.68	18.63		
40	QPSK	100	0		18.67	18.80	18.68	19.5	0.0
40	8QAM	1	1		18.55	18.63	18.58	19.5	0.0
40	8QAM	1	1		18.43	18.44	18.43	19.5	0.0
40	25QAM	1	1		18.63	18.65	18.65	19.5	0.0
Channel					637668	641666	645666		
Frequency (MHz)					3565.02	3624.99	3684.99		
30	QPSK	1	1		18.63	18.76	18.80	19.5	0.0
Channel					637334	641666	646000		
Frequency (MHz)					3560.01	3624.99	3690		
20	QPSK	1	1		18.46	18.77	18.80	19.5	0.0
Channel					637168	641666	646166		
Frequency (MHz)					3557.52	3624.99	3692.49		
15	QPSK	1	1		18.70	18.82	18.74	19.5	0.0
Channel					637000	641666	646332		
Frequency (MHz)					3555	3624.99	3694.98		
10	QPSK	1	1		18.52	18.76	18.61	19.5	0.0

### Part96\_n48\_Ant 8

Channel	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					638000	641666	645332		
Frequency (MHz)					3570	3624.99	3679.98		
40	PI2 BPSK	1	1		22.95	23.07	22.82		
40	PI2 BPSK	1	53		22.52	23.02	22.64	24.0	0.0
40	PI2 BPSK	1	104		22.88	22.98	22.63		
40	PI2 BPSK	50	0		22.86	22.95	22.81	24.0	0.0
40	PI2 BPSK	50	28		22.93	23.05	22.79	24.0	0.0
40	PI2 BPSK	50	56		22.91	23.00	22.56		
40	PI2 BPSK	100	0		22.90	23.02	22.77	24.0	0.0
40	QPSK	1	1		22.58	23.10	22.84		
40	QPSK	1	53		22.89	23.04	22.71	24.0	0.0
40	QPSK	1	104		22.90	23.00	22.87		
40	QPSK	50	0		22.92	22.95	22.73		
40	QPSK	50	28		22.96	23.07	22.81	24.0	0.0
40	QPSK	50	56		22.87	23.02	22.66		
40	QPSK	100	0		22.94	23.05	22.78	24.0	0.0
40	16QAM	1	1		22.85	22.99	22.75	24.0	0.0
40	8QAM	1	1		21.13	21.28	21.02	22.5	1.5
40	25QAM	1	1		19.38	19.45	19.33	20.5	3.5
Channel					637668	641666	645666		
Frequency (MHz)					3565.02	3624.99	3684.99		
30	QPSK	1	1		22.04	22.97	22.95	24.0	0.0
Channel					637334	641666	646000		
Frequency (MHz)					3560.01	3624.99	3690		
20	QPSK	1	1		22.97	22.99	22.80	24.0	0.0
Channel					637168	641666	646166		
Frequency (MHz)					3557.52	3624.99	3692.49		
15	QPSK	1	1		22.94	22.98	22.93	24.0	0.0
Channel					637000	641666	646332		
Frequency (MHz)					3555	3624.99	3694.98		
10	QPSK	1	1		22.91	22.97	22.86	24.0	0.0

### Part27Q\_n77\_Ant 3

Channel	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633000	633332	633666		
Frequency (MHz)					3495	3499.98	3504.99		
100	PI2 BPSK	1	1		16.98	16.98	16.98		
100	PI2 BPSK	1	137		16.96	16.96	16.99	18.0	0.0
100	PI2 BPSK	1	271		16.89	16.89	16.89		
100	PI2 BPSK	135	0		16.92	16.92	16.92	18.0	0.0
100	PI2 BPSK	135	69		16.92	16.92	16.92	18.0	0.0
100	PI2 BPSK	135	138		16.90	16.90	16.90	18.0	0.0
100	PI2 BPSK	270	0		16.91	16.91	16.91	18.0	0.0
100	QPSK	1	1		17.09	17.09	17.09		
100	QPSK	1	137		17.08	17.08	17.08	18.0	0.0
100	QPSK	1	271		16.85	16.85	16.85		
100	QPSK	135	0		16.87	16.87	16.87	18.0	0.0
100	QPSK	135	69		17.07	17.07	17.07	18.0	0.0
100	QPSK	135	138		16.87	16.87	16.87	18.0	0.0
100	QPSK	270	0		17.03	17.03	17.03	18.0	0.0
100	16QAM	1	1		17.08	17.08	17.08	18.0	0.0
100	8QAM	1	1		16.93	16.93	16.93	18.0	0.0
100	25QAM	1	1		17.08	17.08	17.08	18.0	0.0
Channel					633000	633332	633666		
Frequency (MHz)					3495	3499.98	3504.99		
90	QPSK	1	1		16.94	16.74	16.95	18.0	0.0
Channel					632666	633332	634000		
Frequency (MHz)					3490.0185	3499.9785	3509.9985		
80	QPSK	1	1		17.07	16.82	17.04	18.0	0.0
Channel					632334	633332	634332		
Frequency (MHz)					3485.01	3499.98	3514.98		
70	QPSK	1	1		16.94	16.83	17.03	18.0	0.0
Channel					632000	633332	634666		
Frequency (MHz)					3480	3499.98	3519.98		
60	QPSK	1	1		17.01	16.81	17.08	18.0	0.0
Channel					631668	633332	635000		
Frequency (MHz)					3475.02	3499.98	3525		
50	QPSK	1	1		16.99	16.82	17.05	18.0	0.0
Channel					631334	633332	635332		
Frequency (MHz)					3470.01	3499.98	3529.98		
40	QPSK	1	1		16.97	16.84	16.92	18.0	0.0
Channel					631000	633332	635666		
Frequency (MHz)					3465	3499.98	3534.98		
30	QPSK	1	1		17.02	16.84	16.93	18.0	0.0
Channel					630666	633332	636000		
Frequency (MHz)					3460.01	3499.98	3539.98		
25	QPSK	1	1		16.90	16.77	17.05	18.0	0.0
Channel					630332	633332	636332		
Frequency (MHz)					3455.01	3499.98	3544.98		
20	QPSK	1	1		17.07	16.83	17.00	18.0	0.0
Channel					630000	633332	636666		
Frequency (MHz)					3450	3499.98	3549.98		
15	QPSK	1	1		17.07	16.77	17.04	18.0	0.0
Channel					630334	633332	636332		
Frequency (MHz)					3455.01	3499.98	3544.98		
10	PI2 BPSK	1	1		16.96	16.83	16.96	18.0	0.0







Part27Q\_n77(HPUE)\_Ant 7

Table with 10 columns: 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). Rows include various modulation types like Pi2 BPSK, QPSK, 16QAM, 256QAM across different frequencies and power levels.

Part27O\_n77\_Ant 7

Table with 10 columns: 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). Rows include various modulation types like Pi2 BPSK, QPSK, 16QAM, 256QAM across different frequencies and power levels.

Part27O\_n77(HPUE)\_Ant 7

Table with 10 columns: 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). Rows include various modulation types like Pi2 BPSK, QPSK, 16QAM, 256QAM across different frequencies and power levels.



### Part27Q\_n78\_Ant 7

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)								
633332								
3499.98								
100	PI2 BPSK	1	1		17.85	18.07	19.0	0.0
100	PI2 BPSK	1	137		17.91	18.11	19.0	0.0
100	PI2 BPSK	1	271		18.11	18.11	19.0	0.0
100	PI2 BPSK	135	0		17.99	18.07	19.0	0.0
100	PI2 BPSK	135	69		17.94	18.02	19.0	0.0
100	PI2 BPSK	135	138		17.92	18.00	19.0	0.0
100	PI2 BPSK	270	0		17.99	18.07	19.0	0.0
100	QPSK	1	1		18.16	18.16	19.0	0.0
100	QPSK	1	137		17.97	18.05	19.0	0.0
100	QPSK	1	271		17.96	18.04	19.0	0.0
100	QPSK	135	0		18.04	18.04	19.0	0.0
100	QPSK	135	69		18.14	18.14	19.0	0.0
100	QPSK	135	138		18.11	18.11	19.0	0.0
100	QPSK	270	0		17.86	17.86	19.0	0.0
100	16QAM	1	1		17.82	17.82	19.0	0.0
100	64QAM	1	1		17.82	17.82	19.0	0.0
100	256QAM	1	1		17.87	17.87	19.0	0.0
Channel								
Frequency (MHz)								
633000								
3495.01								
90	QPSK	1	1		18.15	18.07	18.00	0.0
Channel								
Frequency (MHz)								
633668								
3500.01								
80	QPSK	1	1		18.02	17.87	18.02	0.0
Channel								
Frequency (MHz)								
632334								
3495.01								
70	QPSK	1	1		17.87	17.93	18.05	0.0
Channel								
Frequency (MHz)								
632000								
3490.02								
60	QPSK	1	1		17.94	18.12	17.99	0.0
Channel								
Frequency (MHz)								
631668								
3475.02								
50	QPSK	1	1		17.95	17.89	17.90	0.0
Channel								
Frequency (MHz)								
631334								
3490.02								
40	QPSK	1	1		18.15	17.99	18.01	0.0
Channel								
Frequency (MHz)								
631000								
3485.01								
30	QPSK	1	1		17.90	18.07	17.75	0.0
Channel								
Frequency (MHz)								
630668								
3480.02								
25	QPSK	1	1		18.14	17.86	17.92	0.0
Channel								
Frequency (MHz)								
630668								
3460.02								
20	QPSK	1	1		18.03	17.92	17.82	0.0
Channel								
Frequency (MHz)								
630500								
3457.5								
15	QPSK	1	1		18.00	17.85	17.99	0.0
Channel								
Frequency (MHz)								
630334								
3455.01								
10	PI2 BPSK	1	1		18.12	17.92	18.07	0.0

### Part27Q\_n78\_Ant 7

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)								
850000								
3750								
100	PI2 BPSK	1	1		17.97	17.97	19.0	0.0
100	PI2 BPSK	1	137		18.18	18.18	19.0	0.0
100	PI2 BPSK	1	271		18.27	18.27	19.0	0.0
100	PI2 BPSK	135	0		18.09	18.09	19.0	0.0
100	PI2 BPSK	135	69		18.16	18.16	19.0	0.0
100	PI2 BPSK	135	138		18.13	18.13	19.0	0.0
100	PI2 BPSK	270	0		18.13	18.13	19.0	0.0
100	QPSK	1	1		18.29	18.29	19.0	0.0
100	QPSK	1	137		18.19	18.19	19.0	0.0
100	QPSK	1	271		18.08	18.08	19.0	0.0
100	QPSK	135	0		18.09	18.09	19.0	0.0
100	QPSK	135	69		18.22	18.22	19.0	0.0
100	QPSK	135	138		18.17	18.17	19.0	0.0
100	QPSK	270	0		18.17	18.17	19.0	0.0
100	16QAM	1	1		17.87	17.87	19.0	0.0
100	64QAM	1	1		18.06	18.06	19.0	0.0
100	256QAM	1	1		18.22	18.22	19.0	0.0
Channel								
Frequency (MHz)								
849668								
3745.02								
90	QPSK	1	1		18.07	18.09	18.18	0.0
Channel								
Frequency (MHz)								
849334								
3740.01								
80	QPSK	1	1		17.84	17.92	18.06	0.0
Channel								
Frequency (MHz)								
849000								
3735								
70	QPSK	1	1		17.91	18.17	17.91	0.0
Channel								
Frequency (MHz)								
848668								
3730.02								
60	QPSK	1	1		18.03	17.88	18.21	0.0
Channel								
Frequency (MHz)								
848334								
3725.01								
50	QPSK	1	1		17.89	17.83	17.99	0.0
Channel								
Frequency (MHz)								
848000								
3720.02								
40	QPSK	1	1		17.89	17.94	18.06	0.0
Channel								
Frequency (MHz)								
847668								
3715.02								
30	QPSK	1	1		17.85	18.00	17.96	0.0
Channel								
Frequency (MHz)								
847334								
3710.01								
25	QPSK	1	1		18.10	18.15	18.04	0.0
Channel								
Frequency (MHz)								
847000								
3705								
15	QPSK	1	1		18.15	18.17	17.92	0.0
Channel								
Frequency (MHz)								
847000								
3705								
10	PI2 BPSK	1	1		18.09	17.87	17.92	0.0

### Part27Q\_n77\_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)								
633332								
3499.98								
100	PI2 BPSK	1	1		23.47	23.47	24.0	0.0
100	PI2 BPSK	1	137		23.38	23.38	24.0	0.0
100	PI2 BPSK	1	271		23.36	23.36	24.0	0.0
100	PI2 BPSK	135	0		23.45	23.45	24.0	0.0
100	PI2 BPSK	135	69		23.34	23.34	24.0	0.0
100	PI2 BPSK	135	138		23.37	23.37	24.0	0.0
100	PI2 BPSK	270	0		23.36	23.36	24.0	0.0
100	QPSK	1	1		23.48	23.48	24.0	0.0
100	QPSK	1	137		23.32	23.32	24.0	0.0
100	QPSK	1	271		23.35	23.35	24.0	0.0
100	QPSK	135	0		23.41	23.41	24.0	0.0
100	QPSK	135	69		23.46	23.46	24.0	0.0
100	QPSK	135	138		23.26	23.26	24.0	0.0
100	QPSK	270	0		23.44	23.44	24.0	0.0
100	16QAM	1	1		23.46	23.46	24.0	0.0
100	64QAM	1	1		23.21	23.21	24.0	0.0
100	256QAM	1	1		21.96	21.96	22.5	1.5
Channel								
Frequency (MHz)								
633000								
3495.01								
90	QPSK	1	1		23.10	23.29	23.34	0.0
Channel								
Frequency (MHz)								
632668								
3490.02								
80	QPSK	1	1		22.97	23.06	23.38	0.0
Channel								
Frequency (MHz)								
632334								
3485.01								
70	QPSK	1	1		23.10	23.22	23.38	0.0
Channel								
Frequency (MHz)								
632000								
3480.02								
60	QPSK	1	1		22.98	23.14	23.13	0.0
Channel								
Frequency (MHz)								
631668								
3475.02								
50	QPSK	1	1		22.85	23.28	23.20	0.0
Channel								
Frequency (MHz)								
631334								
3470.01								
40	QPSK	1	1		22.99	23.33	23.41	0.0
Channel								
Frequency (MHz)								
631000								
3465								
30	QPSK	1	1		23.14	23.37	23.35	0.0
Channel								
Frequency (MHz)								
630668								
3460.02								
25	QPSK	1	1		22.93	23.23	23.20	0.0
Channel								
Frequency (MHz)								
630668								
3460.02								
20	QPSK	1	1		23.08	23.34	23.18	0.0
Channel								
Frequency (MHz)								
630500								
3457.5								
15	QPSK	1	1		22.98	23.02	23.13	0.0
Channel								
Frequency (MHz)								
630334								
3455.01								
10	PI2 BPSK	1	1		23.17	23.07	23.36	0.0





Part27Q\_n78\_Ant 8

Table with 9 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). Rows include channel frequency (MHz) and QPSK modulation parameters.

Part27Q\_n78\_Ant 8

Table with 9 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). Rows include channel frequency (MHz) and QPSK modulation parameters.

Part27Q\_n77\_Ant 9

Table with 9 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). Rows include channel frequency (MHz) and QPSK modulation parameters.







### Part27Q\_n78\_Ant 9

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	3496.48	3533.32	3569.48					
100	Pi2 BPSK	1	1	18.71	18.61	18.51	19.5	0.0			
100	Pi2 BPSK	1	137	18.61	18.53	18.45					
100	Pi2 BPSK	1	211	18.53	18.45	18.37					
100	Pi2 BPSK	135	0	18.72	18.62	18.52	19.5	0.0			
100	Pi2 BPSK	135	69	18.41	18.31	18.21	19.5	0.0			
100	Pi2 BPSK	135	138	18.32	18.22	18.12					
100	Pi2 BPSK	270	0	18.46	18.36	18.26	19.5	0.0			
100	QPSK	1	1	18.76	18.66	18.56					
100	QPSK	1	137	18.44	18.34	18.24	19.5	0.0			
100	QPSK	1	211	18.37	18.27	18.17					
100	QPSK	135	0	18.57	18.47	18.37					
100	QPSK	135	69	18.75	18.65	18.55	19.5	0.0			
100	QPSK	135	138	18.61	18.51	18.41					
100	QPSK	270	0	18.73	18.63	18.53	19.5	0.0			
100	MSAM	1	1	18.75	18.65	18.55	19.5	0.0			
100	MSAM	1	1	18.72	18.62	18.52	19.5	0.0			
100	MSAM	1	1	18.70	18.60	18.50	19.5	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	1	3495	3500.01	3505.02	18.38	18.50	18.38	19.5	0.0
Channel											
Frequency (MHz)											
80	QPSK	1	1	3499.02	3500.01	3501.01	18.31	18.62	18.28	19.5	0.0
Channel											
Frequency (MHz)											
70	QPSK	1	1	3485.01	3500.01	3515.01	18.24	18.38	18.60	19.5	0.0
Channel											
Frequency (MHz)											
60	QPSK	1	1	3480.02	3500.01	3520.02	18.25	18.41	18.54	19.5	0.0
Channel											
Frequency (MHz)											
50	QPSK	1	1	3475.02	3500.01	3525	18.38	18.54	18.68	19.5	0.0
Channel											
Frequency (MHz)											
40	QPSK	1	1	3470.01	3499.98	3538.88	18.39	18.70	18.52	19.5	0.0
Channel											
Frequency (MHz)											
30	QPSK	1	1	3465	3499.98	3534.99	18.22	18.62	18.43	19.5	0.0
Channel											
Frequency (MHz)											
25	QPSK	1	1	3460.02	3499.98	3540.02	18.43	18.54	18.43	19.5	0.0
Channel											
Frequency (MHz)											
20	QPSK	1	1	3455.01	3499.98	3544.98	18.30	18.40	18.60	19.5	0.0
Channel											
Frequency (MHz)											
15	QPSK	1	1	3450.01	3499.98	3549.98	18.30	18.54	18.33	19.5	0.0
Channel											
Frequency (MHz)											
10	Pi2 BPSK	1	1	3455.01	3499.98	3544.98	18.51	18.54	18.42	19.5	0.0

### Part27O\_n78\_Ant 9

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	65000	65000	65000					
100	Pi2 BPSK	1	137	18.58	18.46	18.34	19.5	0.0			
100	Pi2 BPSK	1	211	18.46	18.34	18.22					
100	Pi2 BPSK	135	0	18.52	18.41	18.30	19.5	0.0			
100	Pi2 BPSK	135	69	18.29	18.18	18.07	19.5	0.0			
100	Pi2 BPSK	135	138	18.22	18.11	18.00					
100	Pi2 BPSK	270	0	18.35	18.24	18.13	19.5	0.0			
100	QPSK	1	1	18.62	18.51	18.40					
100	QPSK	1	137	18.25	18.14	18.03	19.5	0.0			
100	QPSK	1	211	18.34	18.23	18.12					
100	QPSK	135	0	18.60	18.49	18.38					
100	QPSK	135	69	18.42	18.31	18.20	19.5	0.0			
100	QPSK	135	138	18.52	18.41	18.30					
100	QPSK	270	0	18.58	18.47	18.36	19.5	0.0			
100	MSAM	1	1	18.56	18.45	18.34	19.5	0.0			
100	MSAM	1	1	18.55	18.44	18.33	19.5	0.0			
100	MSAM	1	1	18.51	18.40	18.29	19.5	0.0			
Channel											
Frequency (MHz)											
90	QPSK	1	1	64988	65000	65032	18.38	18.25	18.48	19.5	0.0
Channel											
Frequency (MHz)											
80	QPSK	1	1	64934	65000	65066	18.30	18.52	18.33	19.5	0.0
Channel											
Frequency (MHz)											
70	QPSK	1	1	64900	65000	65100	18.35	18.43	18.33	19.5	0.0
Channel											
Frequency (MHz)											
60	QPSK	1	1	64896	65000	65152	18.50	18.25	18.42	19.5	0.0
Channel											
Frequency (MHz)											
50	QPSK	1	1	64834	65000	65166	18.38	18.57	18.32	19.5	0.0
Channel											
Frequency (MHz)											
40	QPSK	1	1	64800	65000	65200	18.28	18.29	18.47	19.5	0.0
Channel											
Frequency (MHz)											
30	QPSK	1	1	64768	65000	65232	18.39	18.38	18.46	19.5	0.0
Channel											
Frequency (MHz)											
25	QPSK	1	1	64715.02	65000	65287.5	18.31	18.29	18.34	19.5	0.0
Channel											
Frequency (MHz)											
20	QPSK	1	1	64734	65000	65266	18.26	18.59	18.29	19.5	0.0
Channel											
Frequency (MHz)											
15	QPSK	1	1	64718	65000	65282	18.58	18.33	18.33	19.5	0.0
Channel											
Frequency (MHz)											
10	Pi2 BPSK	1	1	64700	65000	65300	18.33	18.33	18.33	19.5	0.0



Reduced Power Mode for DSI3

n2\_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				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	16.43	16.47	16.51		
20	PI2 BPSK	1	53	16.56	16.65	16.65	17.5	0.0
20	PI2 BPSK	1	104	16.57	16.54	16.58		
20	PI2 BPSK	50	0	16.64	16.65	16.47	17.5	0.0
20	PI2 BPSK	50	28	16.56	16.57	16.51	17.5	0.0
20	PI2 BPSK	50	56	16.56	16.52	16.56	17.5	0.0
20	PI2 BPSK	100	0	16.63	16.62	16.52		
20	QPSK	1	1	16.45	16.72	16.52		
20	QPSK	1	53	16.41	16.60	16.28	17.5	0.0
20	QPSK	1	104	16.42	16.57	16.44		
20	QPSK	50	0	16.47	16.36	16.46	17.5	0.0
20	QPSK	50	28	16.55	16.63	16.60	17.5	0.0
20	QPSK	50	56	16.48	16.60	16.45	17.5	0.0
20	QPSK	100	0	16.55	16.61	16.58		
20	16QAM	1	1	16.32	16.33	16.35	17.5	0.0
20	64QAM	1	1	16.28	16.40	16.30	17.5	0.0
20	256QAM	1	1	16.17	16.27	16.46	17.5	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
15	QPSK	1	1	16.37	16.59	16.56	17.5	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	16.56	16.61	16.31	17.5	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	16.31	16.64	16.39	17.5	0.0

n2\_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				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	20.92	20.92	21.11		
20	PI2 BPSK	1	53	21.01	21.23	21.18	22.0	0.0
20	PI2 BPSK	1	104	21.02	21.15	21.10		
20	PI2 BPSK	50	0	21.12	21.08	21.05	22.0	0.0
20	PI2 BPSK	50	28	21.04	21.18	21.12	22.0	0.0
20	PI2 BPSK	50	56	21.08	21.21	20.98	22.0	0.0
20	PI2 BPSK	100	0	21.08	21.14	21.19		
20	QPSK	1	1	21.05	21.27	21.20		
20	QPSK	1	53	20.99	21.13	21.08	22.0	0.0
20	QPSK	1	104	20.90	21.12	21.16		
20	QPSK	50	0	21.02	21.08	21.09	22.0	0.0
20	QPSK	50	28	21.05	21.25	21.22	22.0	0.0
20	QPSK	50	56	20.97	21.12	20.78	22.0	0.0
20	QPSK	100	0	20.97	21.23	20.95		
20	16QAM	1	1	21.03	20.96	20.91	22.0	0.0
20	64QAM	1	1	20.92	21.02	20.91	21.5	0.5
20	256QAM	1	1	18.63	18.64	18.71	19.5	2.5
Channel				371500	378000	385500		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	21.12	21.08	20.92	22.0	0.0
Channel				371000	378000	381000		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	20.86	21.05	21.04	22.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	20.84	21.15	21.19	22.0	0.0

n5\_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				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	23.17	23.09	23.14		
20	PI2 BPSK	1	53	23.17	23.12	23.16	24.0	0.0
20	PI2 BPSK	1	104	22.87	22.89	22.32		
20	PI2 BPSK	50	0	22.59	22.87	22.82	23.5	0.5
20	PI2 BPSK	50	28	22.58	22.57	22.65	24.0	0.0
20	PI2 BPSK	50	56	22.63	22.48	22.45	23.5	0.5
20	PI2 BPSK	100	0	22.71	22.63	22.81		
20	QPSK	1	1	23.13	23.18	23.16		
20	QPSK	1	53	23.08	23.07	23.12	24.0	0.0
20	QPSK	1	104	22.19	22.20	22.28		
20	QPSK	50	0	22.09	22.11	22.10	23.0	1.0
20	QPSK	50	28	22.10	22.15	22.14	24.0	0.0
20	QPSK	50	56	22.06	21.93	21.96	23.0	1.0
20	QPSK	100	0	22.14	22.20	22.18		
20	16QAM	1	1	22.28	22.28	22.09	23.0	1.0
20	64QAM	1	1	20.90	20.87	20.71	21.5	2.5
20	256QAM	1	1	18.41	18.48	18.40	19.5	4.5
Channel				165300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	23.14	23.11	22.94	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	23.14	23.09	23.00	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				835.5	836.5	845.5		
5	QPSK	1	1	23.09	23.06	23.00	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				166800	167300	167800				
Frequency (MHz)				834	836.5	839				
20	PI2 BPSK	1	1	23.10	23.09	23.08	24.0	0.0		
20	PI2 BPSK	1	53	23.05	23.05	23.14				
20	PI2 BPSK	1	104	23.07	23.10	22.77				
20	PI2 BPSK	50	0	22.83	22.82	22.86			23.5	0.5
20	PI2 BPSK	50	28	23.05	23.01	23.14			24.0	0.0
20	PI2 BPSK	50	56	22.98	22.83	22.40	23.5	0.5		
20	PI2 BPSK	100	0	22.81	22.79	22.77				
20	QPSK	1	1	23.04	23.15	23.05	24.0	0.0		
20	QPSK	1	53	22.99	23.06	23.01				
20	QPSK	1	104	22.88	22.82	22.81				
20	QPSK	50	0	22.13	22.11	22.11	23.0	1.0		
20	QPSK	50	28	23.05	23.07	22.97	24.0	0.0		
20	QPSK	50	56	21.99	21.97	21.90	23.0	1.0		
20	QPSK	100	0	22.00	22.04	22.03				
20	16QAM	1	1	22.13	22.10	22.08	23.0	1.0		
20	64QAM	1	1	20.45	20.47	20.45	21.5	2.5		
20	256QAM	1	1	18.59	18.62	18.60	19.5	4.5		
Channel				165900	167300	168800	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0		
15	QPSK	1	1	22.92	23.08	23.10	24.0	0.0		
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				829	836.5	844	24.0	0.0		
10	QPSK	1	1	22.88	23.11	22.95	24.0	0.0		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0		
5	QPSK	1	1	23.03	22.97	22.90	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	14.18	14.22	14.15	15.5	0.0
40	PI2 BPSK	1	108	14.29	14.26	14.26		
40	PI2 BPSK	1	214	14.05	14.13	14.09		
40	PI2 BPSK	108	0	14.26	14.27	14.18	15.5	0.0
40	PI2 BPSK	108	54	14.02	14.08	14.04	15.5	0.0
40	PI2 BPSK	108	108	14.08	14.20	14.13		
40	PI2 BPSK	216	0	14.03	14.15	14.15	15.5	0.0
40	QPSK	1	1	14.21	14.31	14.19		
40	QPSK	1	108	14.18	14.26	14.15		
40	QPSK	1	214	14.18	14.25	14.14	15.5	0.0
40	QPSK	108	0	14.12	14.24	14.13		
40	QPSK	108	54	14.15	14.29	14.17	15.5	0.0
40	QPSK	108	108	14.12	14.21	14.08	15.5	0.0
40	QPSK	216	0	14.05	14.27	13.97		
40	16QAM	1	1	14.22	14.15	14.23	15.5	0.0
40	64QAM	1	1	13.76	13.82	13.76	15.5	0.0
40	256QAM	1	1	14.10	14.21	14.20	15.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555	15.5	0.0
30	QPSK	1	1	14.19	14.28	14.19	15.5	0.0
Channel				502800	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5	15.5	0.0
25	QPSK	1	1	14.21	14.19	14.08	15.5	0.0
Channel				502600	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560	15.5	0.0
20	QPSK	1	1	14.17	14.19	14.09	15.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	15.5	0.0
15	QPSK	1	1	14.09	14.28	14.12	15.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	15.5	0.0
10	QPSK	1	1	14.11	14.19	14.14	15.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	15.5	0.0
5	QPSK	1	1	14.15	14.21	14.09	15.5	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)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	23.15	23.14	23.16	24.0	0.0
15	PI2 BPSK	1	40	23.11	23.11	23.16		
15	PI2 BPSK	1	77	23.17	23.11	23.19		
15	PI2 BPSK	38	0	22.81	22.72	22.89	23.5	0.5
15	PI2 BPSK	38	22	23.11	23.17	23.16	24.0	0.0
15	PI2 BPSK	38	43	22.78	22.78	22.78		
15	PI2 BPSK	75	0	22.79	22.72	22.73	23.5	0.5
15	QPSK	1	1	23.16	23.22	23.18		
15	QPSK	1	40	23.12	23.20	23.17	24.0	0.0
15	QPSK	1	77	23.15	23.18	23.14		
15	QPSK	38	0	22.16	22.16	22.19		
15	QPSK	38	22	23.13	23.20	23.16	24.0	0.0
15	QPSK	38	43	22.27	22.11	22.24		
15	QPSK	75	0	22.24	22.27	22.26	24.0	1.0
15	16QAM	1	1	21.67	22.15	22.45		
15	64QAM	1	1	20.68	20.86	21.02	21.5	2.5
15	256QAM	1	1	18.29	18.24	18.52	19.5	4.5
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711	24.0	0.0
10	QPSK	1	1	23.06	23.12	23.02	24.0	0.0
Channel				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5	24.0	0.0
5	QPSK	1	1	23.02	23.16	23.07	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				158900				
Frequency (MHz)				793				
10	PI2 BPSK	1	1	22.80			24.0	0.0
10	PI2 BPSK	1	26	22.77				
10	PI2 BPSK	1	50	22.70				
10	PI2 BPSK	25	0	22.20			23.5	0.5
10	PI2 BPSK	25	14	22.82			24.0	0.0
10	PI2 BPSK	25	27	22.15			23.5	0.5
10	PI2 BPSK	50	0	22.29				
10	QPSK	1	1	22.83			24.0	0.0
10	QPSK	1	26	22.62				
10	QPSK	1	50	22.64				
10	QPSK	25	0	21.76			23.0	1.0
10	QPSK	25	14	22.81			24.0	0.0
10	QPSK	25	27	21.73			23.0	1.0
10	QPSK	50	0	21.78				
10	16QAM	1	1	22.13			23.0	1.0
10	64QAM	1	1	20.62			21.5	2.5
10	256QAM	1	1	18.06			19.5	4.5
Channel				159100				
Frequency (MHz)				795				
5	QPSK	1	1	22.80	22.78	22.67	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				372000				
Frequency (MHz)				1860				
20	PI2 BPSK	1	1	16.46	16.64	16.84		
20	PI2 BPSK	1	53	16.88	16.72	16.72	17.5	0.0
20	PI2 BPSK	1	104	16.65	16.65	16.64		
20	PI2 BPSK	50	0	16.69	16.74	16.82	17.5	0.0
20	PI2 BPSK	50	28	16.83	16.66	16.55	17.5	0.0
20	PI2 BPSK	50	56	16.58	16.67	16.66	17.5	0.0
20	PI2 BPSK	100	0	16.65	16.68	16.67		
20	QPSK	1	1	16.63	16.77	16.65		
20	QPSK	1	53	16.44	16.67	16.36	17.5	0.0
20	QPSK	1	104	16.53	16.66	16.54		
20	QPSK	50	0	16.58	16.67	16.57	17.5	0.0
20	QPSK	50	28	16.61	16.75	16.82	17.5	0.0
20	QPSK	50	56	16.58	16.68	16.55	17.5	0.0
20	QPSK	100	0	16.69	16.74	16.66		
20	16QAM	1	1	16.33	16.44	16.39	17.5	0.0
20	64QAM	1	1	16.47	16.52	16.52	17.5	0.0
20	256QAM	1	1	16.44	16.42	16.40	17.5	0.0
Channel				376000				
Frequency (MHz)				1867.5				
15	QPSK	1	1	16.67	16.74	16.83	17.5	0.0
Channel				376500				
Frequency (MHz)				1865				
10	QPSK	1	1	16.58	16.74	16.58	17.5	0.0
Channel				376500				
Frequency (MHz)				1862.5				
5	QPSK	1	1	16.50	16.71	16.61	17.5	0.0

n25_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000				
Frequency (MHz)				1860				
20	PI2 BPSK	1	1	21.12	21.22	21.18		
20	PI2 BPSK	1	53	21.25	21.30	21.28	22.0	0.0
20	PI2 BPSK	1	104	21.18	21.26	21.24		
20	PI2 BPSK	50	0	21.20	21.24	21.23	22.0	0.0
20	PI2 BPSK	50	28	21.17	21.25	21.20	22.0	0.0
20	PI2 BPSK	50	56	21.17	21.27	21.15	22.0	0.0
20	PI2 BPSK	100	0	21.23	21.28	21.27		
20	QPSK	1	1	21.20	21.36	21.31		
20	QPSK	1	53	21.14	21.25	21.14	22.0	0.0
20	QPSK	1	104	21.05	21.28	21.28		
20	QPSK	50	0	21.11	21.23	21.19	22.0	0.0
20	QPSK	50	28	21.18	21.34	21.28	22.0	0.0
20	QPSK	50	56	21.15	21.22	20.95	22.0	0.0
20	QPSK	100	0	21.14	21.32	21.08	22.0	0.0
20	16QAM	1	1	21.08	21.09	21.03	22.0	0.0
20	64QAM	1	1	21.00	21.07	20.95	22.0	0.0
20	256QAM	1	1	18.75	18.63	18.75	19.5	2.5
Channel				376500				
Frequency (MHz)				1867.5				
15	QPSK	1	1	20.76	20.78	20.94	22.0	0.0
Channel				376500				
Frequency (MHz)				1865				
10	QPSK	1	1	20.94	21.09	21.04	22.0	0.0
Channel				376500				
Frequency (MHz)				1862.5				
5	QPSK	1	1	20.90	21.04	21.13	22.0	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				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	23.12	23.07	23.01			
20	PI2 BPSK	1	53	23.08	23.20	23.14			
20	PI2 BPSK	1	104	23.14	23.17	23.19	24.0	0.0	
20	PI2 BPSK	50	0	22.82	22.50	22.37	23.5	0.5	
20	PI2 BPSK	50	28	23.08	23.13	23.12	24.0	0.0	
20	PI2 BPSK	50	56	22.82	22.79	22.82	23.5	0.5	
20	PI2 BPSK	100	0	22.53	22.58	22.68			
20	QPSK	1	1	23.16	23.21	23.12			
20	QPSK	1	53	23.10	23.12	23.07	24.0	0.0	
20	QPSK	1	104	23.13	23.18	23.10			
20	QPSK	50	0	22.08	22.07	22.10	23.0	1.0	
20	QPSK	50	28	23.16	23.19	23.12	24.0	0.0	
20	QPSK	50	56	22.27	22.31	22.32	23.0	1.0	
20	QPSK	100	0	22.09	22.18	22.18			
20	16QAM	1	1	22.16	22.16	22.18	23.0	1.0	
20	64QAM	1	1	20.78	20.75	20.69	21.5	2.5	
20	256QAM	1	1	18.23	18.26	18.26	19.5	4.5	
Channel				163300	163300	163300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	23.17	23.19	23.01	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	23.14	23.11	22.94	24.0	0.0	
Channel				163300	163300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				181.5	831.5	846.5			
5	QPSK	1	1	23.15	23.17	23.04	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				164800	166300	167800			
Frequency (MHz)				824	831.5	839			
20	PI2 BPSK	1	1	23.12	23.15	23.12			
20	PI2 BPSK	1	53	23.10	23.12	23.10			
20	PI2 BPSK	1	104	23.16	23.12	23.15	24.0	0.0	
20	PI2 BPSK	50	0	22.58	22.57	22.60	23.5	0.5	
20	PI2 BPSK	50	28	23.07	23.12	23.09	24.0	0.0	
20	PI2 BPSK	50	56	22.70	22.74	22.77	23.5	0.5	
20	PI2 BPSK	100	0	22.51	22.83	22.87			
20	QPSK	1	1	23.13	23.17	23.11			
20	QPSK	1	53	23.12	23.15	23.08	24.0	0.0	
20	QPSK	1	104	23.07	23.11	23.09			
20	QPSK	50	0	22.03	22.07	22.03	23.0	1.0	
20	QPSK	50	28	23.11	23.14	23.08	24.0	0.0	
20	QPSK	50	56	22.22	22.27	22.20	23.0	1.0	
20	QPSK	100	0	22.02	22.11	22.02			
20	16QAM	1	1	21.67	21.79	21.70	23.0	1.0	
20	64QAM	1	1	20.25	20.32	20.28	21.5	2.5	
20	256QAM	1	1	18.72	18.73	18.62	19.5	4.5	
Channel				163300	163300	163300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	1	23.02	23.08	22.86	24.0	0.0	
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	1	22.89	23.11	22.84	24.0	0.0	
Channel				163300	163300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				181.5	831.5	846.5			
5	QPSK	1	1	23.07	22.97	23.14	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						462000			
Frequency (MHz)						2310			
10	PI2 BPSK	1	1			16.14			
10	PI2 BPSK	1	28			16.23			17.5
10	PI2 BPSK	1	50			16.15			0.0
10	PI2 BPSK	25	0			16.14			0.0
10	PI2 BPSK	25	14			16.16			17.5
10	PI2 BPSK	25	27			16.18			0.0
10	PI2 BPSK	50	0			16.17			17.5
10	QPSK	1	1			16.23			0.0
10	QPSK	1	28			16.23			17.5
10	QPSK	1	50			16.15			0.0
10	QPSK	25	0			16.13			17.5
10	QPSK	25	14			16.21			0.0
10	QPSK	25	27			16.08			17.5
10	QPSK	50	0			16.19			0.0
10	16QAM	1	1			16.21			17.5
10	64QAM	1	1			16.11			0.0
10	256QAM	1	1			16.11			17.5
Channel				461600	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5			
5	QPSK	1	1	16.23	16.21	16.15	17.5	0.0	



n30_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				462000						
Frequency (MHz)				2310						
10	PI2 BPSK	1	1	21.96			23.0	0.0		
10	PI2 BPSK	1	26	21.96						
10	PI2 BPSK	1	50	21.92						
10	PI2 BPSK	25	0	21.44			23.5	0.5		
10	PI2 BPSK	25	14	21.98			23.0	0.0		
10	PI2 BPSK	25	27	21.42			22.5	0.5		
10	PI2 BPSK	50	0	21.44						
10	QPSK	1	1	22.00						
10	QPSK	1	26	21.96			23.0	0.0		
10	QPSK	1	50	21.97						
10	QPSK	25	0	20.88			22.0	1.0		
10	QPSK	25	14	21.97			23.0	0.0		
10	QPSK	25	27	20.98			22.0	1.0		
10	QPSK	50	0	20.93						
10	16QAM	1	1	20.85			22.0	1.0		
10	64QAM	1	1	19.30			20.5	2.5		
10	256QAM	1	1	17.37			18.5	4.5		
Channel				461500	462000	462500	Tune-up limit	MPR		
Frequency (MHz)				2307.5	2310	2312.5	(dBm)	(dB)		
5	QPSK	1	1	21.94	21.94	21.89	23.0	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)				1730	1745	1760				
40	PI2 BPSK	1	1	16.61	16.62	16.60				
40	PI2 BPSK	1	108	16.68	16.60	16.61	17.5	0.0		
40	PI2 BPSK	1	214	16.33	16.44	16.42				
40	PI2 BPSK	108	0	16.44	16.53	16.52	17.5	0.0		
40	PI2 BPSK	108	54	16.47	16.51	16.40	17.5	0.0		
40	PI2 BPSK	108	108	16.58	16.64	16.52	17.5	0.0		
40	PI2 BPSK	216	0	16.67	16.67	16.55				
40	QPSK	1	1	16.63	16.68	16.52				
40	QPSK	1	108	16.47	16.55	16.43	17.5	0.0		
40	QPSK	1	214	16.38	16.54	16.45				
40	QPSK	108	0	16.40	16.53	16.44	17.5	0.0		
40	QPSK	108	54	16.53	16.66	16.47	17.5	0.0		
40	QPSK	108	108	16.49	16.57	16.40	17.5	0.0		
40	QPSK	216	0	16.41	16.64	16.34				
40	16QAM	1	1	16.06	16.43	16.30	17.5	0.0		
40	64QAM	1	1	16.27	16.18	16.14	17.5	0.0		
40	256QAM	1	1	16.42	16.35	16.24	17.5	0.0		
Channel				344900	349000	353500	Tune-up limit	MPR		
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)		
30	QPSK	1	1	16.62	16.67	16.44	17.5	0.0		
Channel				344800	349000	353500	Tune-up limit	MPR		
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)		
25	QPSK	1	1	16.69	16.65	16.40	17.5	0.0		
Channel				344000	349000	354000	Tune-up limit	MPR		
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)		
20	QPSK	1	1	16.80	16.56	16.52	17.5	0.0		
Channel				343500	349000	354500	Tune-up limit	MPR		
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)		
15	QPSK	1	1	16.58	16.58	16.51	17.5	0.0		
Channel				343000	349000	355000	Tune-up limit	MPR		
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)		
10	QPSK	1	1	16.59	16.64	16.47	17.5	0.0		
Channel				342500	349000	355500	Tune-up limit	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
5	QPSK	1	1	16.58	16.62	16.51	17.5	0.0		

n66_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				346000	349000	352000				
Frequency (MHz)				1730	1745	1760				
40	PI2 BPSK	1	1	20.43	20.51	20.40				
40	PI2 BPSK	1	108	20.47	20.62	20.58	21.5	0.0		
40	PI2 BPSK	1	214	20.53	20.55	20.43				
40	PI2 BPSK	108	0	20.46	20.54	20.33	21.5	0.0		
40	PI2 BPSK	108	54	20.49	20.60	20.53	21.5	0.0		
40	PI2 BPSK	108	108	20.65	20.53	20.65	21.5	0.0		
40	PI2 BPSK	216	0	20.54	20.63	20.50				
40	QPSK	1	1	20.60	20.67	20.63				
40	QPSK	1	108	20.28	20.44	20.35	21.5	0.0		
40	QPSK	1	214	20.34	20.41	20.41				
40	QPSK	108	0	20.51	20.62	20.49	21.5	0.0		
40	QPSK	108	54	20.56	20.66	20.55	21.5	0.0		
40	QPSK	108	108	20.54	20.62	20.55	21.5	0.0		
40	QPSK	216	0	20.60	20.63	20.52				
40	16QAM	1	1	20.37	20.50	20.39	21.5	0.0		
40	64QAM	1	1	20.28	20.35	20.26	21.5	0.0		
40	256QAM	1	1	18.18	18.21	18.13	19.5	2.0		
Channel				345000	349000	353000	Tune-up limit	MPR		
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)		
30	QPSK	1	1	20.13	20.44	20.41	21.5	0.0		
Channel				344800	349000	353500	Tune-up limit	MPR		
Frequency (MHz)				1722.5	1745	1767.5	(dBm)	(dB)		
25	QPSK	1	1	20.13	20.44	20.44	21.5	0.0		
Channel				344000	349000	354000	Tune-up limit	MPR		
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)		
20	QPSK	1	1	20.16	20.46	20.47	21.5	0.0		
Channel				343500	349000	354500	Tune-up limit	MPR		
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)		
15	QPSK	1	1	20.07	20.28	20.40	21.5	0.0		
Channel				343000	349000	355000	Tune-up limit	MPR		
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)		
10	QPSK	1	1	20.17	20.42	20.40	21.5	0.0		
Channel				342500	349000	355500	Tune-up limit	MPR		
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)		
5	QPSK	1	1	20.08	20.36	20.42	21.5	0.0		



n70_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				340500					
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1	17.97			19.0	0.0	
15	PI/2 BPSK	1	40	18.01					
15	PI/2 BPSK	1	77	18.00					
15	PI/2 BPSK	36	0	17.53			19.0	0.0	
15	PI/2 BPSK	36	22	18.02			19.0	0.0	
15	PI/2 BPSK	36	43	17.49			19.0	0.0	
15	PI/2 BPSK	75	0	17.52					
15	QPSK	1	1	18.07					
15	QPSK	1	40	18.01			19.0	0.0	
15	QPSK	1	77	17.90					
15	QPSK	36	0	17.91			19.0	0.0	
15	QPSK	36	22	18.05			19.0	0.0	
15	QPSK	36	43	17.98			19.0	0.0	
15	QPSK	75	0	18.03					
15	16QAM	1	1	17.94			19.0	0.0	
15	64QAM	1	1	17.94			19.0	0.0	
15	256QAM	1	1	17.93			19.0	0.0	
Channel				340500	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	17.87	17.86	17.89	19.0	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	17.92	17.92	17.88	19.0	0.0	

n70_Ant 2									
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				340500					
Frequency (MHz)				1702.5					
15	PI/2 BPSK	1	1	20.65					
15	PI/2 BPSK	1	40	20.55			22.5	0.0	
15	PI/2 BPSK	1	77	20.64					
15	PI/2 BPSK	36	0	20.59			22.5	0.0	
15	PI/2 BPSK	36	22	20.61			22.5	0.0	
15	PI/2 BPSK	36	43	20.61			22.5	0.0	
15	PI/2 BPSK	75	0	20.63					
15	QPSK	1	1	20.74					
15	QPSK	1	40	20.72			22.5	0.0	
15	QPSK	1	77	20.66					
15	QPSK	36	0	20.64			22.5	0.0	
15	QPSK	36	22	20.72			22.5	0.0	
15	QPSK	36	43	20.55			22.5	0.0	
15	QPSK	75	0	20.70					
15	16QAM	1	1	20.66			22.5	0.0	
15	64QAM	1	1	19.82			21.5	1.0	
15	256QAM	1	1	17.92			19.0	3.5	
Channel				340500	340500	341000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1700	1702.5	1705			
10	QPSK	1	1	20.62	20.71	20.72	22.5	0.0	
Channel				339500	340500	341500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1697.5	1702.5	1707.5			
5	QPSK	1	1	20.62	20.53	20.71	22.5	0.0	



n71_Ant 0									
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				134900	136100	137900			
Frequency (MHz)				673	680.5	688			
20	PI/2 BPSK	1	1	22.72	22.75	22.79	24.0	0.0	
20	PI/2 BPSK	1	53	22.71	22.85	22.75			
20	PI/2 BPSK	1	104	22.73	22.80	22.80			
20	PI/2 BPSK	50	0	21.87	22.28	22.15	23.5	0.5	
20	PI/2 BPSK	50	26	22.72	22.74	22.78	24.0	0.0	
20	PI/2 BPSK	50	56	21.79	22.14	22.42	23.5	0.5	
20	PI/2 BPSK	100	0	21.76	22.22	22.27			
20	QPSK	1	1	22.76	22.84	22.76			
20	QPSK	1	53	22.68	22.88	22.65	24.0	0.0	
20	QPSK	1	104	22.71	22.79	22.74			
20	QPSK	50	0	21.85	21.76	21.73	23.0	1.0	
20	QPSK	50	26	22.73	22.81	22.74	24.0	0.0	
20	QPSK	50	56	21.57	21.66	21.68	23.0	1.0	
20	QPSK	100	0	21.69	21.77	21.76			
20	16QAM	1	1	21.60	21.65	21.67			23.0
20	64QAM	1	1	20.29	20.35	20.38	21.5	2.5	
20	256QAM	1	1	17.90	17.95	17.98	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.74	22.69	22.66	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.64	22.73	22.59	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.72	22.76	22.73	24.0	0.0	

n71_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				134900	136100	137900			
Frequency (MHz)				673	680.5	688			
20	PI/2 BPSK	1	1	22.76	22.83	22.79	24.0	0.0	
20	PI/2 BPSK	1	53	22.69	22.81	22.81			
20	PI/2 BPSK	1	104	22.69	22.74	22.72			
20	PI/2 BPSK	50	0	22.37	22.35	22.29	23.5	0.5	
20	PI/2 BPSK	50	26	22.70	22.75	22.73	24.0	0.0	
20	PI/2 BPSK	50	56	22.19	22.28	22.16	23.5	0.5	
20	PI/2 BPSK	100	0	22.34	22.37	22.25			
20	QPSK	1	1	22.80	22.84	22.79			
20	QPSK	1	53	22.67	22.76	22.73	24.0	0.0	
20	QPSK	1	104	22.78	22.82	22.78			
20	QPSK	50	0	21.76	21.76	21.74	23.0	1.0	
20	QPSK	50	26	22.75	22.80	22.77	24.0	0.0	
20	QPSK	50	56	21.72	21.71	21.65	23.0	1.0	
20	QPSK	100	0	21.67	21.76	21.69			
20	16QAM	1	1	21.65	21.75	21.77			23.0
20	64QAM	1	1	19.98	19.98	19.88	21.5	2.5	
20	256QAM	1	1	18.52	18.53	18.53	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.78	22.76	22.80	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.67	22.68	22.71	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.71	22.82	22.67	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)				519004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	13.89	14.03	13.79		
40	PI2 BPSK	1	53	13.84	13.95	13.79	15.5	0.0
40	PI2 BPSK	1	104	13.87	13.93	13.87	15.5	0.0
40	PI2 BPSK	50	0	13.87	13.89	13.74	15.5	0.0
40	PI2 BPSK	50	28	14.02	14.02	13.87	15.5	0.0
40	PI2 BPSK	50	56	13.77	13.81	13.84	15.5	0.0
40	PI2 BPSK	100	0	13.81	13.84	13.71	15.5	0.0
Channel								
Frequency (MHz)				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	14.01	13.94	13.70	15.5	0.0
Channel								
Frequency (MHz)				518594	519000	521406		
Frequency (MHz)				2582.82	2595	2607.48		
25	QPSK	1	1	13.95	13.93	13.90	15.5	0.0
Channel								
Frequency (MHz)				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	1	13.74	13.94	13.71	15.5	0.0
Channel								
Frequency (MHz)				515592	519000	522496		
Frequency (MHz)				2577.81	2595	2612.49		
15	QPSK	1	1	14.04	13.88	13.79	15.5	0.0
Channel								
Frequency (MHz)				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	13.70	14.00	13.78	15.5	0.0

**n41\_Ant 0(FCC)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509202	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	14.92	15.07	15.06		
100	PI2 BPSK	1	137	15.11	15.13	15.07	16.5	0.0
100	PI2 BPSK	1	271	15.00	15.12	15.08	16.5	0.0
100	PI2 BPSK	135	0	15.14	15.15	15.15	16.5	0.0
100	PI2 BPSK	135	69	15.09	15.20	15.14	16.5	0.0
100	PI2 BPSK	135	138	15.13	15.16	15.08	16.5	0.0
100	PI2 BPSK	270	0	15.22	15.23	15.13	16.5	0.0
Channel								
Frequency (MHz)				507204	518998	529998		
Frequency (MHz)				2536.02	2592.99	2649.98		
90	QPSK	1	1	15.18	15.18	15.00	16.5	0.0
Channel								
Frequency (MHz)				506202	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
80	QPSK	1	1	15.10	15.16	15.06	16.5	0.0
Channel								
Frequency (MHz)				504204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
70	QPSK	1	1	15.21	15.17	15.08	16.5	0.0
Channel								
Frequency (MHz)				502200	518998	534996		
Frequency (MHz)				2516.03	2592.99	2674.98		
60	QPSK	1	1	15.16	15.12	15.13	16.5	0.0
Channel								
Frequency (MHz)				500700	518998	536996		
Frequency (MHz)				2503.5	2592.99	2682.48		
50	QPSK	1	1	15.18	15.18	15.13	16.5	0.0
Channel								
Frequency (MHz)				500202	518998	537000		
Frequency (MHz)				2500.02	2592.99	2685		
40	QPSK	1	1	15.13	15.14	15.00	16.5	0.0
Channel								
Frequency (MHz)				500202	518998	537000		
Frequency (MHz)				2500.02	2592.99	2685		
30	QPSK	1	1	15.15	15.16	15.09	16.5	0.0
Channel								
Frequency (MHz)				501204	518998	536998		
Frequency (MHz)				2508.02	2592.99	2679.99		
20	QPSK	1	1	15.18	15.14	15.13	16.5	0.0
Channel								
Frequency (MHz)				500700	518998	536996		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	15.14	15.13	15.00	16.5	0.0
Channel								
Frequency (MHz)				500202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	15.17	15.14	15.10	16.5	0.0

**n41(HPUE)\_Ant 0(FCC)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509202	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	17.93	17.97	17.81		
100	PI2 BPSK	1	137	18.04	18.04	17.93	19.5	0.0
100	PI2 BPSK	1	271	17.96	18.01	17.89	19.5	0.0
100	PI2 BPSK	135	0	18.06	18.08	18.03	19.5	0.0
100	PI2 BPSK	135	69	17.95	18.07	18.01	19.5	0.0
100	PI2 BPSK	135	138	17.95	17.98	17.93	19.5	0.0
100	PI2 BPSK	270	0	18.01	18.05	17.93	19.5	0.0
Channel								
Frequency (MHz)				507204	518998	529998		
Frequency (MHz)				2536.02	2592.99	2649.98		
90	QPSK	1	1	17.97	18.17	18.07	19.5	0.0
Channel								
Frequency (MHz)				506202	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
80	QPSK	1	1	17.92	18.15	18.05	19.5	0.0
Channel								
Frequency (MHz)				504204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
70	QPSK	1	1	18.08	18.10	18.05	19.5	0.0
Channel								
Frequency (MHz)				502200	518998	534996		
Frequency (MHz)				2516.03	2592.99	2674.98		
60	QPSK	1	1	17.98	18.12	17.97	19.5	0.0
Channel								
Frequency (MHz)				500700	518998	536996		
Frequency (MHz)				2503.5	2592.99	2684.98		
50	QPSK	1	1	17.91	18.11	18.00	19.5	0.0
Channel								
Frequency (MHz)				500202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
40	QPSK	1	1	18.04	18.18	18.08	19.5	0.0
Channel								
Frequency (MHz)				500202	518998	534996		
Frequency (MHz)				2501.01	2592.99	2684.98		
30	QPSK	1	1	17.95	18.11	18.08	19.5	0.0
Channel								
Frequency (MHz)				501204	518998	536998		
Frequency (MHz)				2508.02	2592.99	2679.99		
20	QPSK	1	1	18.07	18.12	18.07	19.5	0.0
Channel								
Frequency (MHz)				500700	518998	536996		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	18.08	18.13	18.06	19.5	0.0
Channel								
Frequency (MHz)				500202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	17.97	18.13	17.98	19.5	0.0



### n41\_Ant 1(FCC)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509202	518598	528000		
Frequency (MHz)				2548.01	2592.99	2640		
100	PI2 BPSK	1	1	13.89	13.97	13.94		
100	PI2 BPSK	1	137	13.92	13.96	13.91	15.5	0.0
100	PI2 BPSK	1	271	13.91	13.95	13.93		
100	PI2 BPSK	135	0	13.88	14.00	13.87	15.5	0.0
100	PI2 BPSK	135	69	14.05	14.05	14.00	15.5	0.0
100	PI2 BPSK	135	138	13.80	13.82	13.82	15.5	0.0
100	PI2 BPSK	270	0	13.87	13.91	13.82		
100	QPSK	1	1	13.92	14.12	13.99		
100	QPSK	1	137	14.00	14.01	13.91	15.5	0.0
100	QPSK	1	271	14.00	13.83	13.87		
100	QPSK	135	0	13.82	13.71	13.84		
100	QPSK	135	69	13.99	14.10	13.97	15.5	0.0
100	QPSK	135	138	13.89	13.91	13.88		
100	QPSK	270	0	14.01	14.09	13.90	15.5	0.0
100	8QAM	1	1	14.03	13.91	13.88	15.5	0.0
100	8QAM	1	1	14.06	13.82	13.84	15.5	0.0
100	256QAM	1	1	13.95	13.90	13.85	15.5	0.0
Channel								
Frequency (MHz)				508200	518598	528998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	13.98	13.97	13.91	15.5	0.0
Frequency (MHz)				507204	518598	529998		
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	14.11	13.91	13.92	15.5	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	14.11	13.97	13.95	15.5	0.0
Frequency (MHz)				505200	518598	531998		
Frequency (MHz)				2526.02	2592.99	2659.98		
60	QPSK	1	1	14.05	13.99	13.94	15.5	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	14.09	13.97	13.85	15.5	0.0
Frequency (MHz)				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	14.02	14.00	13.98	15.5	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	13.94	13.90	13.91	15.5	0.0
Frequency (MHz)				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	13.97	14.00	13.83	15.5	0.0
Channel								
Frequency (MHz)				500700	518598	536998		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	14.08	13.90	13.87	15.5	0.0
Channel								
Frequency (MHz)				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	14.11	13.87	13.91	15.5	0.0

### n41(HPUUE)\_Ant 1(FCC)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	16.87	16.98	16.90		
100	PI2 BPSK	1	137	16.91	17.02	17.02	18.5	0.0
100	PI2 BPSK	1	271	16.96	16.99	16.95		
100	PI2 BPSK	135	0	17.00	17.05	16.97	18.5	0.0
100	PI2 BPSK	135	69	16.96	17.06	16.98	18.5	0.0
100	PI2 BPSK	135	138	16.85	16.98	16.87	18.5	0.0
100	PI2 BPSK	270	0	16.96	17.11	16.93		
100	QPSK	1	1	17.06	17.23	17.09		
100	QPSK	1	137	16.98	17.12	16.99	18.5	0.0
100	QPSK	1	271	16.90	17.03	17.00		
100	QPSK	135	0	16.97	17.05	16.95		
100	QPSK	135	69	17.03	17.21	17.02	18.5	0.0
100	QPSK	135	138	16.99	17.01	16.88		
100	QPSK	270	0	16.93	17.18	16.82	18.5	0.0
100	8QAM	1	1	16.87	16.91	16.85	18.5	0.0
100	8QAM	1	1	16.87	16.80	16.81	18.5	0.0
100	256QAM	1	1	17.12	17.12	17.20	18.5	0.0
Channel								
Frequency (MHz)				508200	518598	528998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.05	17.13	16.98	18.5	0.0
Frequency (MHz)				507204	518598	529998		
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	17.01	17.12	16.98	18.5	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	17.05	17.00	17.05	18.5	0.0
Frequency (MHz)				505200	518598	531998		
Frequency (MHz)				2526.02	2592.99	2659.98		
60	QPSK	1	1	17.00	17.05	17.04	18.5	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	16.90	17.02	17.02	18.5	0.0
Frequency (MHz)				503202	518598	533998		
Frequency (MHz)				2516.01	2592.99	2669.99		
40	QPSK	1	1	16.91	17.01	17.06	18.5	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.05	17.08	17.01	18.5	0.0
Frequency (MHz)				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.00	17.11	17.08	18.5	0.0
Channel								
Frequency (MHz)				500700	518598	536998		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	16.91	17.08	16.95	18.5	0.0
Channel								
Frequency (MHz)				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	17.04	17.02	17.05	18.5	0.0

### n41\_Ant 2(FCC)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	21.17	21.25	21.08		
100	PI2 BPSK	1	137	21.24	21.31	21.22	22.5	0.0
100	PI2 BPSK	1	271	21.18	21.30	21.21		
100	PI2 BPSK	135	0	21.18	21.23	21.20	22.5	0.0
100	PI2 BPSK	135	69	21.26	21.29	21.22	22.5	0.0
100	PI2 BPSK	135	138	21.16	21.17	21.16	22.5	0.0
100	PI2 BPSK	270	0	21.16	21.19	21.15		
100	QPSK	1	1	21.27	21.36	21.25		
100	QPSK	1	137	21.23	21.29	21.19	22.5	0.0
100	QPSK	1	271	21.24	21.35	21.12		
100	QPSK	135	0	21.12	21.19	21.12		
100	QPSK	135	69	21.18	21.34	21.16	22.5	0.0
100	QPSK	135	138	21.11	21.18	21.12		
100	QPSK	270	0	21.06	21.32	21.08	22.5	0.0
100	8QAM	1	1	21.15	21.15	21.11	22.5	0.0
100	8QAM	1	1	21.25	21.29	21.22	22.5	0.0
100	256QAM	1	1	21.09	21.12	21.09	22.5	0.0
Channel								
Frequency (MHz)				508200	518598	528998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	21.30	21.32	21.20	22.5	0.0
Frequency (MHz)				507204	518598	529998		
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	21.21	21.33	21.18	22.5	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	21.27	21.30	21.18	22.5	0.0
Frequency (MHz)				505200	518598	531998		
Frequency (MHz)				2526.02	2592.99	2659.98		
60	QPSK	1	1	21.23	21.25	21.17	22.5	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	21.25	21.34	21.18	22.5	0.0
Frequency (MHz)				503202	518598	533998		
Frequency (MHz)				2516.01	2592.99	2669.99		
40	QPSK	1	1	21.21	21.23	21.19	22.5	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	21.24	21.35	21.19	22.5	0.0
Frequency (MHz)				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	21.33	21.27	21.15	22.5	0.0
Channel								
Frequency (MHz)				500700	518598	536998		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	21.23	21.27	21.13	22.5	0.0
Channel								
Frequency (MHz)				500202	518598	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	21.34	21.25	21.17	22.5	0.0



n41(HPUE)_Ant 2(FCC)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	23.98	24.14	24.13			
100	PI2 BPSK	1	137	24.04	24.17	24.15		0.0	
100	PI2 BPSK	1	271	24.12	24.18	24.13	25.5	0.0	
100	PI2 BPSK	135	0	24.03	24.13	24.05	25.5	0.0	
100	PI2 BPSK	135	69	24.06	24.19	24.14	25.5	0.0	
100	PI2 BPSK	135	138	24.13	24.13	24.03	25.5	0.0	
100	PI2 BPSK	270	0	23.98	24.07	23.98			
100	QPSK	1	1	24.21	24.31	24.29		0.0	
100	QPSK	1	137	24.12	24.17	24.01	25.5	0.0	
100	QPSK	1	271	24.16	24.23	24.20			
100	QPSK	135	0	24.03	24.12	24.02			
100	QPSK	135	69	24.11	24.27	24.15	25.5	0.0	
100	QPSK	135	138	24.10	24.11	24.10			
100	QPSK	270	0	23.98	24.25	23.97	25.5	0.0	
100	16QAM	1	1	23.82	23.95	23.92	25.5	0.0	
100	64QAM	1	1	23.48	23.81	23.59	24.5	1.0	
100	256QAM	1	1	21.81	21.83	21.55	22.5	3.0	
Channel									
				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	24.18	24.08	24.04	25.5	0.0	
Channel									
				507204	518598	529998			
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	24.04	24.14	24.11	25.5	0.0	
Channel									
				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	24.03	24.20	24.15	25.5	0.0	
Channel									
				505200	518598	531996			
Frequency (MHz)				2525	2592.99	2659.98			
60	QPSK	1	1	24.21	24.09	24.11	25.5	0.0	
Channel									
				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	24.12	24.19	24.19	25.5	0.0	
Channel									
				503202	518598	533000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	24.03	24.13	24.19	25.5	0.0	
Channel									
				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	24.17	24.17	24.16	25.5	0.0	
Channel									
				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	24.16	24.10	24.07	25.5	0.0	
Channel									
				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	24.16	24.18	24.09	25.5	0.0	
Channel									
				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	24.03	24.16	24.17	25.5	0.0	

n41_Ant 4(FCC)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	16.47	16.38	16.56			
100	PI2 BPSK	1	137	16.51	16.55	16.42	17.5	0.0	
100	PI2 BPSK	1	271	16.49	16.59	16.55			
100	PI2 BPSK	135	0	16.46	16.57	16.55	17.5	0.0	
100	PI2 BPSK	135	69	16.50	16.65	16.48	17.5	0.0	
100	PI2 BPSK	135	138	16.45	16.45	16.35	17.5	0.0	
100	PI2 BPSK	270	0	16.47	16.50	16.45			
100	QPSK	1	1	16.67	16.71	16.70		0.0	
100	QPSK	1	137	16.66	16.69	16.51	17.5	0.0	
100	QPSK	1	271	16.64	16.44	16.85			
100	QPSK	135	0	16.55	16.49	16.51			
100	QPSK	135	69	16.65	16.70	16.63	17.5	0.0	
100	QPSK	135	138	16.49	16.44	16.62			
100	QPSK	270	0	16.47	16.67	16.40	17.5	0.0	
100	16QAM	1	1	16.43	16.58	16.44	17.5	0.0	
100	64QAM	1	1	16.37	16.40	16.28	17.5	0.0	
100	256QAM	1	1	16.54	16.68	16.47	17.5	0.0	
Channel									
				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	16.54	16.63	16.68	17.5	0.0	
Channel									
				507204	518598	529998			
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	16.56	16.62	16.63	17.5	0.0	
Channel									
				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	16.57	16.63	16.63	17.5	0.0	
Channel									
				505200	518598	531996			
Frequency (MHz)				2525	2592.99	2659.98			
60	QPSK	1	1	16.60	16.64	16.59	17.5	0.0	
Channel									
				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	16.64	16.59	16.60	17.5	0.0	
Channel									
				503202	518598	533000			
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	16.55	16.67	16.65	17.5	0.0	
Channel									
				502200	518598	534996			
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	16.59	16.67	16.66	17.5	0.0	
Channel									
				501204	518598	535998			
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	16.66	16.65	16.81	17.5	0.0	
Channel									
				500700	518598	536496			
Frequency (MHz)				2503.5	2592.99	2682.48			
15	QPSK	1	1	16.62	16.61	16.81	17.5	0.0	
Channel									
				500202	518598	537000			
Frequency (MHz)				2501.01	2592.99	2685			
10	QPSK	1	1	16.61	16.68	16.81	17.5	0.0	

n41(HPUE)_Ant 4(FCC)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	19.62	19.83	19.54			
100	PI2 BPSK	1	137	19.66	19.71	19.52	20.5	0.0	
100	PI2 BPSK	1	271	19.60	19.82	19.62			
100	PI2 BPSK	135	0	19.62	19.72	19.52	20.5	0.0	
100	PI2 BPSK	135	69	19.72	19.75	19.59	20.5	0.0	
100	PI2 BPSK	135	138	19.70	19.81	19.59	20.5	0.0	
100	PI2 BPSK	270	0	19.67	19.81	19.55			
100	QPSK	1	1	19.75	19.84	19.63		0.0	
100	QPSK	1	137	19.70	19.49	19.60	20.5	0.0	
100	QPSK	1	271	19.72	19.77	19.53			
100	QPSK	135	0	19.66	19.77	19.57			
100	QPSK	135	69	19.74	19.82	19.67	20.5	0.0	
100	QPSK	135	138	19.63	19.78	19.58			
100	QPSK	270	0	19.61	19.80	19.53	20.5	0.0	
100	16QAM	1	1	19.60	19.77	19.61	20.5	0.0	
100	64QAM	1	1	18.88	18.77	18.61	19.0	1.5	
100	256QAM	1	1	17.30	17.40	17.21	17.5	3.0	
Channel									
				508200	518598	528996			
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	19.63	19.71	19.55	20.5	0.0	
Channel									
				507204	518598	529998			
Frequency (MHz)				2538.02	2592.99	2649.99			
80	QPSK	1	1	19.63	19.82	19.53	20.5	0.0	
Channel									
				506202	518598	531000			
Frequency (MHz)				2531.01	2592.99	2655			
70	QPSK	1	1	19.60	19.79	19.59	20.5	0.0	
Channel									
				505200	518598	531996			
Frequency (MHz)				2525	2592.99	2659.98			
60	QPSK	1	1	19.69	19.75	19.54	20.5	0.0	
Channel									
				504204	518598	532998			
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	19.69	19.78	19.55	20.5	0.0	



### Part96\_n48\_Ant 3

Channel	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel					638000	641666	645332		
Frequency (MHz)					3570	3624.99	3679.98		
40	PI/2 BPSK	1	1	1	16.68	16.79	16.76	18.0	0.0
40	PI/2 BPSK	1	53	53	16.75	16.86	16.73	18.0	0.0
40	PI/2 BPSK	1	104	104	16.82	16.94	16.85	18.0	0.0
40	PI/2 BPSK	50	0	0	16.79	16.88	16.82	18.0	0.0
40	PI/2 BPSK	50	28	28	16.80	16.84	16.75	18.0	0.0
40	PI/2 BPSK	50	56	56	16.80	16.85	16.72	18.0	0.0
40	PI/2 BPSK	100	0	0	16.81	16.88	16.82	18.0	0.0
40	QPSK	1	1	1	16.74	16.97	16.70	18.0	0.0
40	QPSK	1	53	53	16.81	16.85	16.48	18.0	0.0
40	QPSK	1	104	104	16.62	16.91	16.86	18.0	0.0
40	QPSK	50	0	0	16.68	16.94	16.68	18.0	0.0
40	QPSK	50	28	28	16.62	16.90	16.62	18.0	0.0
40	QPSK	50	56	56	16.55	16.85	16.46	18.0	0.0
40	QPSK	100	0	0	16.57	16.60	16.59	18.0	0.0
40	16QAM	1	1	1	16.72	16.80	16.81	18.0	0.0
40	64QAM	1	1	1	16.62	16.94	16.64	18.0	0.0
40	256QAM	1	1	1	16.71	16.87	16.58	18.0	0.0
Channel					637668	641666	645666		
Frequency (MHz)					3565.02	3624.99	3684.99		
30	QPSK	1	1	1	16.69	16.85	16.70	18.0	0.0
Channel					637334	641666	646000		
Frequency (MHz)					3560.01	3624.99	3690		
20	QPSK	1	1	1	16.74	16.92	16.89	18.0	0.0
Channel					637168	641666	646166		
Frequency (MHz)					3557.52	3624.99	3692.49		
15	QPSK	1	1	1	16.69	16.92	16.83	18.0	0.0
Channel					637000	641666	646332		
Frequency (MHz)					3555	3624.99	3694.98		
10	QPSK	1	1	1	16.60	16.87	16.60	18.0	0.0

### Part96\_n48\_Ant 8

Channel	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel					638000	641666	645332		
Frequency (MHz)					3570	3624.99	3679.98		
40	PI/2 BPSK	1	1	1	12.98	13.03	12.82	14.0	0.0
40	PI/2 BPSK	1	53	53	13.06	12.84	12.86	14.0	0.0
40	PI/2 BPSK	1	104	104	13.03	13.03	12.90	14.0	0.0
40	PI/2 BPSK	50	0	0	13.03	13.00	12.85	14.0	0.0
40	PI/2 BPSK	50	28	28	12.93	13.08	12.92	14.0	0.0
40	PI/2 BPSK	50	56	56	13.02	12.99	12.88	14.0	0.0
40	PI/2 BPSK	100	0	0	13.02	13.06	12.90	14.0	0.0
40	QPSK	1	1	1	13.03	13.10	12.92	14.0	0.0
40	QPSK	1	53	53	12.95	13.00	12.92	14.0	0.0
40	QPSK	1	104	104	12.96	13.08	12.79	14.0	0.0
40	QPSK	50	0	0	12.87	12.98	12.84	14.0	0.0
40	QPSK	50	28	28	12.99	13.06	12.97	14.0	0.0
40	QPSK	50	56	56	12.98	13.00	12.78	14.0	0.0
40	QPSK	100	0	0	12.97	12.98	12.91	14.0	0.0
40	16QAM	1	1	1	12.94	13.05	12.85	14.0	0.0
40	64QAM	1	1	1	13.03	13.00	12.80	14.0	0.0
40	256QAM	1	1	1	12.98	12.91	12.89	14.0	0.0
Channel					637668	641666	645666		
Frequency (MHz)					3565.02	3624.99	3684.99		
30	QPSK	1	1	1	12.85	13.09	12.84	14.0	0.0
Channel					637334	641666	646000		
Frequency (MHz)					3560.01	3624.99	3690		
20	QPSK	1	1	1	13.01	12.97	12.92	14.0	0.0
Channel					637168	641666	646166		
Frequency (MHz)					3557.52	3624.99	3692.49		
15	QPSK	1	1	1	12.89	13.07	12.85	14.0	0.0
Channel					637000	641666	646332		
Frequency (MHz)					3555	3624.99	3694.98		
10	QPSK	1	1	1	12.90	13.09	12.82	14.0	0.0

### Part27Q\_n77\_Ant 3

Channel	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel					633000	633332	633666		
Frequency (MHz)					3499.98	3499.98	3499.98		
100	PI/2 BPSK	1	1	1	15.07	15.07	15.07	16.0	0.0
100	PI/2 BPSK	1	137	137	15.17	15.17	15.17	16.0	0.0
100	PI/2 BPSK	1	274	274	15.24	15.24	15.24	16.0	0.0
100	PI/2 BPSK	135	0	0	15.01	15.01	15.01	16.0	0.0
100	PI/2 BPSK	135	69	69	15.02	15.02	15.02	16.0	0.0
100	PI/2 BPSK	135	138	138	15.08	15.08	15.08	16.0	0.0
100	PI/2 BPSK	270	0	0	15.01	15.01	15.01	16.0	0.0
100	QPSK	1	1	1	15.33	15.33	15.33	16.0	0.0
100	QPSK	1	137	137	15.28	15.28	15.28	16.0	0.0
100	QPSK	1	274	274	15.25	15.25	15.25	16.0	0.0
100	QPSK	135	0	0	14.96	14.96	14.96	16.0	0.0
100	QPSK	135	69	69	15.31	15.31	15.31	16.0	0.0
100	QPSK	135	138	138	15.00	15.00	15.00	16.0	0.0
100	QPSK	270	0	0	15.29	15.29	15.29	16.0	0.0
100	16QAM	1	1	1	15.08	15.08	15.08	16.0	0.0
100	64QAM	1	1	1	14.91	14.91	14.91	16.0	0.0
100	256QAM	1	1	1	15.23	15.23	15.23	16.0	0.0
Channel					633000	633332	633666		
Frequency (MHz)					3495	3499.98	3504.99		
80	QPSK	1	1	1	15.15	15.23	15.25	16.0	0.0
Channel					632968	633332	633666		
Frequency (MHz)					3490.02	3499.98	3510		
80	QPSK	1	1	1	15.15	15.23	15.25	16.0	0.0
Channel					632934	633332	634332		
Frequency (MHz)					3485.01	3499.98	3514.98		
70	QPSK	1	1	1	15.15	15.23	15.25	16.0	0.0
Channel					632900	633332	635000		
Frequency (MHz)					3480	3499.98	3519.99		
60	QPSK	1	1	1	15.15	15.23	15.25	16.0	0.0
Channel					631868	633332	635000		
Frequency (MHz)					3475.02	3499.98	3525		
50	QPSK	1	1	1	15.15	15.23	15.25	16.0	0.0
Channel					631834	633332	635332		
Frequency (MHz)					3470.01	3499.98	3529.98		
40	QPSK	1	1	1	15.15	15.23	15.25	16.0	0.0
Channel					631800	633332	635666		
Frequency (MHz)					3465	3499.98	3534.99		
30	QPSK	1	1	1	15.15	15.23	15.25	16.0	0.0
Channel					630834	633332	635832		
Frequency (MHz)					3460.51	3499.98	3537.48		
25	QPSK	1	1	1	15.15	15.23	15.25	16.0	0.0
Channel					630668	633332	636000		
Frequency (MHz)					3455.02	3499.98	3540		
20	QPSK	1	1	1	15.15	15.23	15.25	16.0	0.0
Channel					630500	633332	636166		
Frequency (MHz)					3450.5	3499.98	3542.49		
15	QPSK	1	1	1	15.15	15.23	15.25	16.0	0.0
Channel					630334	633332	636332		
Frequency (MHz)					3455.01	3499.98	3544.98		
10	PI/2 BPSK	1	1	1	15.15	15.23	15.25	16.0	0.0



### Part27Q\_n77(HPUE)\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.95	17.95	17.95		
100	PI2 BPSK	1	137	17.86			19.0	0.0
100	PI2 BPSK	1	221	18.11				
100	PI2 BPSK	135	0	17.94			19.0	0.0
100	PI2 BPSK	135	69	17.93			19.0	0.0
100	PI2 BPSK	135	138	18.05			19.0	0.0
100	PI2 BPSK	270	0	17.92				
100	QPSK	1	1	18.21				
100	QPSK	1	137	18.05			19.0	0.0
100	QPSK	1	221	18.11				
100	QPSK	135	0	17.95				
100	QPSK	135	69	18.18			19.0	0.0
100	QPSK	135	138	17.86				
100	QPSK	270	0	18.15			19.0	0.0
100	64QAM	1	1	17.91			19.0	0.0
100	64QAM	1	1	17.83			19.0	0.0
100	256QAM	1	1	18.16			19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.14	18.18	18.07	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.01	18.12	18.05	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.03	18.17	18.04	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.09	18.13	17.99	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.98	18.12	17.94	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.12	18.12	18.06	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.03	18.14	18.04	19.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	17.95	18.18	18.00	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.04	18.05	18.05	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.04	18.18	17.94	19.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	18.05	18.05	18.01	19.0	0.0

### Part27O\_n77\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.16	15.12	14.91		
100	PI2 BPSK	1	137	15.14	15.19	15.09		
100	PI2 BPSK	1	221	15.09	15.14	15.23	16.0	0.0
100	PI2 BPSK	135	0	15.14	15.11	14.90	16.0	0.0
100	PI2 BPSK	135	69	15.11	15.16	15.05	16.0	0.0
100	PI2 BPSK	135	138	15.10	15.17	14.94	16.0	0.0
100	PI2 BPSK	270	0	15.10	15.17	14.95		
100	QPSK	1	1	15.21	15.23	15.23		
100	QPSK	1	137	15.03	15.12	15.02	16.0	0.0
100	QPSK	1	221	15.04	15.11	15.15		
100	QPSK	135	0	14.98	15.18	15.02		
100	QPSK	135	69	15.07	15.21	15.05	16.0	0.0
100	QPSK	135	138	15.05	15.10	14.89		
100	QPSK	270	0	15.08	15.19	14.94	16.0	0.0
100	16QAM	1	1	15.15	15.14	14.94	16.0	0.0
100	64QAM	1	1	14.98	15.12	14.90	16.0	0.0
100	256QAM	1	1	15.13	15.13	14.94	16.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.15	15.19	15.11	16.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.09	15.22	15.08	16.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.17	15.13	15.16	16.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.21	15.19	15.12	16.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.09	15.14	15.16	16.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.09	15.15	15.09	16.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.16	15.21	15.12	16.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	15.08	15.11	15.17	16.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.16	15.18	15.16	16.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	15.09	15.16	15.20	16.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	15.15	15.22	15.19	16.0	0.0

### Part27O\_n77(HPUE)\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.94	18.07	17.95		
100	PI2 BPSK	1	137	18.20	18.16	18.12	19.0	0.0
100	PI2 BPSK	1	221	18.10	18.23	18.19		
100	PI2 BPSK	135	0	18.15	18.20	18.19	19.0	0.0
100	PI2 BPSK	135	69	18.10	18.14	18.10	19.0	0.0
100	PI2 BPSK	135	138	18.13	18.13	18.06	19.0	0.0
100	PI2 BPSK	270	0	18.03	18.09	18.08		
100	QPSK	1	1	18.22	18.24	18.14		
100	QPSK	1	137	18.19	18.40	18.10	19.0	0.0
100	QPSK	1	221	18.18	18.12	18.13		
100	QPSK	135	0	18.00	18.11	17.89		
100	QPSK	135	69	18.02	18.21	18.02	19.0	0.0
100	QPSK	135	138	17.99	18.04	17.97		
100	QPSK	270	0	17.96	18.18	17.74	19.0	0.0
100	16QAM	1	1	17.97	17.99	17.77	19.0	0.0
100	64QAM	1	1	17.88	17.91	17.85	19.0	0.0
100	256QAM	1	1	18.21	18.15	18.15	19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.09	18.14	18.01	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.08	18.18	18.12	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.21	18.20	18.07	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.06	18.22	18.05	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.14	18.11	18.07	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.15	18.14	18.13	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.08	18.20	18.06	19.0	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	18.04	18.17	18.13	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.08	18.14	18.06	19.0	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	18.10	18.21	18.05	19.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	18.22	18.22	18.01	19.0	0.0



### Part27Q\_n78\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633332			3499.98	
100	PI2 BPSK	1	1	14.97			18.0	0.0
100	PI2 BPSK	1	137	14.80				
100	PI2 BPSK	1	221	14.80				
100	PI2 BPSK	135	0	14.81				
100	PI2 BPSK	135	69	14.78				
100	PI2 BPSK	135	138	14.83			18.0	0.0
100	PI2 BPSK	270	0	14.83			18.0	0.0
100	QPSK	1	1	15.20				
100	QPSK	1	137	15.09				
100	QPSK	1	221	15.00				
100	QPSK	135	0	14.80				
100	QPSK	135	69	15.17			18.0	0.0
100	QPSK	135	138	14.74			18.0	0.0
100	QPSK	270	0	15.14				
100	16QAM	1	1	14.73				
100	64QAM	1	1	14.87				
100	256QAM	1	1	15.08				
Channel								
Frequency (MHz)				633000			3495.02	
90	QPSK	1	1	15.03	15.06	15.15	18.0	0.0
Channel								
Frequency (MHz)				633334			3500.01	
80	QPSK	1	1	14.75	15.01	14.87	18.0	0.0
Channel								
Frequency (MHz)				632334			3485.01	
70	QPSK	1	1	14.75	15.05	15.10	18.0	0.0
Channel								
Frequency (MHz)				632000			3490.02	
60	QPSK	1	1	14.81	15.09	15.08	18.0	0.0
Channel								
Frequency (MHz)				631668			3475.02	
50	QPSK	1	1	14.83	15.03	15.15	18.0	0.0
Channel								
Frequency (MHz)				631000			3465.02	
40	QPSK	1	1	14.89	14.93	15.16	18.0	0.0
Channel								
Frequency (MHz)				631000			3465.02	
30	QPSK	1	1	14.97	14.82	15.01	18.0	0.0
Channel								
Frequency (MHz)				630834			3462.51	
25	QPSK	1	1	14.81	14.93	14.92	18.0	0.0
Channel								
Frequency (MHz)				630668			3460.02	
20	QPSK	1	1	14.78	14.78	15.17	18.0	0.0
Channel								
Frequency (MHz)				630500			3457.5	
15	QPSK	1	1	14.86	15.05	15.09	18.0	0.0
Channel								
Frequency (MHz)				630334			3455.01	
10	PI2 BPSK	1	1	14.90	15.12	15.11	18.0	0.0

### Part27Q\_n78\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				650000			3750	
100	PI2 BPSK	1	1	15.18			18.0	0.0
100	PI2 BPSK	1	137	15.08				
100	PI2 BPSK	1	221	15.12				
100	PI2 BPSK	135	0	15.11				
100	PI2 BPSK	135	69	15.12				
100	PI2 BPSK	135	138	15.16			18.0	0.0
100	PI2 BPSK	270	0	15.14			18.0	0.0
100	QPSK	1	1	15.28				
100	QPSK	1	137	15.18				
100	QPSK	1	221	15.15				
100	QPSK	135	0	15.20				
100	QPSK	135	69	15.24			18.0	0.0
100	QPSK	135	138	15.17			18.0	0.0
100	QPSK	270	0	15.21				
100	16QAM	1	1	14.89				
100	64QAM	1	1	14.84				
100	256QAM	1	1	14.84				
Channel								
Frequency (MHz)				649668			3745.02	
90	QPSK	1	1	15.01	15.18	15.08	18.0	0.0
Channel								
Frequency (MHz)				649334			3740.01	
80	QPSK	1	1	15.07	14.99	15.02	18.0	0.0
Channel								
Frequency (MHz)				649000			3735.00	
70	QPSK	1	1	14.88	15.23	14.89	18.0	0.0
Channel								
Frequency (MHz)				648668			3730.02	
60	QPSK	1	1	14.80	14.98	14.99	18.0	0.0
Channel								
Frequency (MHz)				648334			3725.01	
50	QPSK	1	1	14.80	14.90	14.86	18.0	0.0
Channel								
Frequency (MHz)				648000			3720.00	
40	QPSK	1	1	15.02	15.13	15.07	18.0	0.0
Channel								
Frequency (MHz)				647668			3715.02	
30	QPSK	1	1	14.77	15.03	14.93	18.0	0.0
Channel								
Frequency (MHz)				647334			3710.01	
25	QPSK	1	1	14.87	15.20	14.81	18.0	0.0
Channel								
Frequency (MHz)				647000			3705.00	
20	QPSK	1	1	14.94	15.04	14.83	18.0	0.0
Channel								
Frequency (MHz)				646700			3700.00	
15	QPSK	1	1	14.81	15.01	14.86	18.0	0.0
Channel								
Frequency (MHz)				646334			3695.00	
10	PI2 BPSK	1	1	14.84	15.21	15.03	18.0	0.0

### Part27Q\_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)				633332			3499.98	
100	PI2 BPSK	1	1	14.68			15.5	0.0
100	PI2 BPSK	1	137	14.80				
100	PI2 BPSK	1	221	14.59				
100	PI2 BPSK	135	0	14.61				
100	PI2 BPSK	135	69	14.65				
100	PI2 BPSK	135	138	14.61			15.5	0.0
100	PI2 BPSK	270	0	14.64			15.5	0.0
100	QPSK	1	1	14.69				
100	QPSK	1	137	14.58				
100	QPSK	1	221	14.59				
100	QPSK	135	0	14.65				
100	QPSK	135	69	14.67			15.5	0.0
100	QPSK	135	138	14.63			15.5	0.0
100	QPSK	270	0	14.65				
100	16QAM	1	1	14.66				
100	64QAM	1	1	14.46				
100	256QAM	1	1	14.64				
Channel								
Frequency (MHz)				633000			3495.02	
90	QPSK	1	1	14.68	14.65	14.64	15.5	0.0
Channel								
Frequency (MHz)				632668			3490.02	
80	QPSK	1	1	14.68	14.50	14.48	15.5	0.0
Channel								
Frequency (MHz)				632334			3485.01	
70	QPSK	1	1	14.39	14.39	14.44	15.5	0.0
Channel								
Frequency (MHz)				632000			3480.02	
60	QPSK	1	1	14.66	14.38	14.66	15.5	0.0
Channel								
Frequency (MHz)				631668			3475.02	
50	QPSK	1	1	14.40	14.51	14.63	15.5	0.0
Channel								
Frequency (MHz)				631334			3470.01	
40	QPSK	1	1	14.57	14.65	14.66	15.5	0.0
Channel								
Frequency (MHz)				631000			3465.02	
30	QPSK	1	1	14.44	14.65	14.43	15.5	0.0
Channel								
Frequency (MHz)				630834			3462.51	
25	QPSK	1	1	14.64	14.44	14.63	15.5	0.0
Channel								
Frequency (MHz)				630668			3460.02	
20	QPSK	1	1	14.52	14.55	14.39	15.5	0.0
Channel								
Frequency (MHz)				630500			3457.5	
15	QPSK	1	1	14.63	14.59	14.54	15.5	0.0
Channel								
Frequency (MHz)				630334			3455.01	
10	PI2 BPSK	1	1	14.62	14.41	14.44	15.5	0.0



**Part27Q\_n77(HPUJE)\_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	3499.98	633332	17.31			
100	Pi2 BPSK	1	137	17.23			18.5	0.0	
100	Pi2 BPSK	1	271	17.21					
100	Pi2 BPSK	135	0	17.19			18.5	0.0	
100	Pi2 BPSK	135	69	17.30			18.5	0.0	
100	Pi2 BPSK	135	138	17.28			18.5	0.0	
100	Pi2 BPSK	270	0	17.29					
100	QPSK	1	1	17.27					
100	QPSK	1	137	17.26			18.5	0.0	
100	QPSK	1	271	17.17					
100	QPSK	135	0	17.38			18.5	0.0	
100	QPSK	135	69	17.26			18.5	0.0	
100	QPSK	135	138	17.28			18.5	0.0	
100	QPSK	270	0	17.33			18.5	0.0	
100	84QAM	1	1	17.30			18.5	0.0	
100	84QAM	1	1	17.14			18.5	0.0	
100	256QAM	1	1	17.30			18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.12	633332	17.08	17.19	18.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.02	633332	17.01	17.06	18.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.11	633332	17.00	17.19	18.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.98	633332	17.02	17.19	18.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.02	633332	17.05	17.12	18.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.95	633332	16.99	17.12	18.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.08	633332	16.95	17.14	18.5	0.0
Channel									
Frequency (MHz)									
25	QPSK	1	1	16.94	633332	16.98	17.15	18.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.04	633332	16.96	17.18	18.5	0.0
Channel									
Frequency (MHz)									
15	QPSK	1	1	16.95	633332	17.02	17.18	18.5	0.0
Channel									
Frequency (MHz)									
10	Pi2 BPSK	1	1	17.04	633332	17.03	17.16	18.5	0.0

**Part27Q\_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	3750	65000	3830		
100	Pi2 BPSK	1	1	14.18	14.33	14.33		
100	Pi2 BPSK	1	137	14.40	14.21	14.46	15.5	0.0
100	Pi2 BPSK	1	271	14.54	14.24	14.56		
100	Pi2 BPSK	135	0	14.48	14.37	14.44	15.5	0.0
100	Pi2 BPSK	135	69	14.55	14.61	14.56	15.5	0.0
100	Pi2 BPSK	135	138	14.55	14.54	14.38	15.5	0.0
100	Pi2 BPSK	270	0	14.49	14.50	14.54		
100	QPSK	1	1	14.47	14.26	14.70		
100	QPSK	1	137	14.47	14.21	14.39	15.5	0.0
100	QPSK	1	271	14.52	14.72	14.65		
100	QPSK	135	0	14.28	14.44	14.44	15.5	0.0
100	QPSK	135	69	14.59	14.74	14.56	15.5	0.0
100	QPSK	135	138	14.44	14.52	14.48	15.5	0.0
100	QPSK	270	0	14.63	14.72	14.46	15.5	0.0
100	16QAM	1	1	14.25	14.22	14.13	15.5	0.0
100	16QAM	1	1	14.04	14.08	13.93	15.5	0.0
100	256QAM	1	1	14.19	14.16	14.01	15.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.82	14.70	14.59	15.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.53	14.73	14.66	15.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.80	14.65	14.63	15.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.53	14.75	14.67	15.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.49	14.71	14.58	15.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.47	14.73	14.63	15.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.59	14.64	14.62	15.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	14.52	14.63	14.59	15.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.53	14.72	14.62	15.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	14.60	14.63	14.68	15.5	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	14.58	14.64	14.67	15.5	0.0

**Part27Q\_n77(HPUJE)\_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	3750	65000	3830		
100	Pi2 BPSK	1	1	17.29	17.36	17.24		
100	Pi2 BPSK	1	137	17.27	17.24	17.21	18.5	0.0
100	Pi2 BPSK	1	271	17.24	17.24	17.17		
100	Pi2 BPSK	135	0	16.90	16.95	16.83	18.5	0.0
100	Pi2 BPSK	135	69	17.26	17.34	17.19	18.5	0.0
100	Pi2 BPSK	135	138	16.73	16.80	16.82	18.5	0.0
100	Pi2 BPSK	270	0	17.04	17.13	17.07		
100	QPSK	1	1	17.30	17.28	17.25		
100	QPSK	1	137	17.25	17.31	17.19	18.5	0.0
100	QPSK	1	271	17.08	17.11	17.15		
100	QPSK	135	0	17.20	17.32	17.10	18.5	0.0
100	QPSK	135	69	17.34	17.27	17.16	18.5	0.0
100	QPSK	135	138	17.22	17.26	17.06	18.5	0.0
100	QPSK	270	0	17.12	17.25	17.18	18.5	0.0
100	16QAM	1	1	17.17	17.34	17.07	18.5	0.0
100	16QAM	1	1	17.12	17.38	17.11	18.5	0.0
100	256QAM	1	1	17.08	17.24	17.12	18.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.26	17.31	17.15	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.23	17.28	17.17	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.24	17.28	17.23	18.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.20	17.31	17.23	18.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.12	17.30	17.14	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.15	17.31	17.19	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.28	17.33	17.21	18.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	17.23	17.37	17.16	18.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.18	17.36	17.22	18.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.12	17.37	17.15	18.5	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	17.19	17.29	17.16	18.5	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	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				633332	633332	633332		
Frequency (MHz)				3459.98				
100	PI2 BPSK	1	1	14.32	14.40	14.42	15.5	0.0
100	PI2 BPSK	1	137	14.26			15.5	0.0
100	PI2 BPSK	1	271	14.29			15.5	0.0
100	PI2 BPSK	135	0	14.33			15.5	0.0
100	PI2 BPSK	135	69	14.27			15.5	0.0
100	PI2 BPSK	135	138	14.28			15.5	0.0
100	PI2 BPSK	270	0	14.28			15.5	0.0
100	QPSK	1	1	14.47			15.5	0.0
100	QPSK	1	137	14.26			15.5	0.0
100	QPSK	1	271	14.21			15.5	0.0
100	QPSK	135	0	14.44			15.5	0.0
100	QPSK	135	69	14.30			15.5	0.0
100	QPSK	135	138	14.30			15.5	0.0
100	QPSK	270	0	14.43			15.5	0.0
100	MQAM	1	1	14.30			15.5	0.0
100	84QAM	1	1	14.18			15.5	0.0
100	256QAM	1	1	14.31			15.5	0.0
Channel								
Frequency (MHz)				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455	3500.01	3505.02		
90	QPSK	1	1	14.32	14.40	14.42	15.5	0.0
Frequency (MHz)				633668	633334	633000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3499.02	3500.01	3510		
80	QPSK	1	1	14.28	14.34	14.37	15.5	0.0
Frequency (MHz)				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3500.01	3515.01		
70	QPSK	1	1	14.14	14.32	14.29	15.5	0.0
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3500.01	3520.02		
60	QPSK	1	1	14.20	14.16	14.26	15.5	0.0
Frequency (MHz)				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	14.24	14.38	14.23	15.5	0.0
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3528.98		
40	QPSK	1	1	14.23	14.26	14.20	15.5	0.0
Frequency (MHz)				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	14.08	14.40	14.33	15.5	0.0
Frequency (MHz)				630668	633332	635832	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3450.01	3499.98	3537.98		
25	QPSK	1	1	14.27	14.26	14.38	15.5	0.0
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	14.26	14.44	14.40	15.5	0.0
Frequency (MHz)				630500	633332	636168	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3499.98	3542.49		
15	QPSK	1	1	14.19	14.33	14.41	15.5	0.0
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3499.98	3544.98		
10	PI2 BPSK	1	1	14.22	14.19	14.32	15.5	0.0

### Part27O\_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)				600000	600000	600000		
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	14.28			15.5	0.0
100	PI2 BPSK	1	137	14.16			15.5	0.0
100	PI2 BPSK	1	271	14.30			15.5	0.0
100	PI2 BPSK	135	0	14.22			15.5	0.0
100	PI2 BPSK	135	69	14.44			15.5	0.0
100	PI2 BPSK	135	138	14.40			15.5	0.0
100	PI2 BPSK	270	0	14.36			15.5	0.0
100	QPSK	1	1	14.56			15.5	0.0
100	QPSK	1	137	14.24			15.5	0.0
100	QPSK	1	271	14.55			15.5	0.0
100	QPSK	135	0	14.19			15.5	0.0
100	QPSK	135	69	14.55			15.5	0.0
100	QPSK	135	138	14.36			15.5	0.0
100	QPSK	270	0	14.53			15.5	0.0
100	16QAM	1	1	14.15			15.5	0.0
100	84QAM	1	1	13.80			15.5	0.0
100	256QAM	1	1	13.83			15.5	0.0
Channel								
Frequency (MHz)				646668	650000	650332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3754.98		
90	QPSK	1	1	14.45	14.43	14.38	15.5	0.0
Frequency (MHz)				646334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3759.99		
80	QPSK	1	1	14.28	14.36	14.27	15.5	0.0
Frequency (MHz)				646000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	14.43	14.49	14.29	15.5	0.0
Frequency (MHz)				645668	650000	651332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3759.98		
60	QPSK	1	1	14.44	14.43	14.19	15.5	0.0
Frequency (MHz)				645334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3774.99		
50	QPSK	1	1	14.38	14.40	14.35	15.5	0.0
Frequency (MHz)				645000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	14.53	14.48	14.18	15.5	0.0
Frequency (MHz)				644668	650000	652332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3784.98		
30	QPSK	1	1	14.41	14.38	14.20	15.5	0.0
Frequency (MHz)				644334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3789.98		
25	QPSK	1	1	14.32	14.18	14.10	15.5	0.0
Frequency (MHz)				644000	650000	652998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
20	QPSK	1	1	14.47	14.49	14.16	15.5	0.0
Frequency (MHz)				643734	650000	653332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3700.01	3750	3792.49		
15	QPSK	1	1	14.32	14.30	14.38	15.5	0.0
Frequency (MHz)				643400	650000	653600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	PI2 BPSK	1	1	14.52	14.36	14.34	15.5	0.0

### Part27Q\_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)				633332	633332	633332		
Frequency (MHz)				3499.98				
100	PI2 BPSK	1	1	12.08			13.0	0.0
100	PI2 BPSK	1	137	12.02			13.0	0.0
100	PI2 BPSK	1	271	11.95			13.0	0.0
100	PI2 BPSK	135	0	11.98			13.0	0.0
100	PI2 BPSK	135	69	11.92			13.0	0.0
100	PI2 BPSK	135	138	11.86			13.0	0.0
100	PI2 BPSK	270	0	11.94			13.0	0.0
100	QPSK	1	1	12.29			13.0	0.0
100	QPSK	1	137	12.03			13.0	0.0
100	QPSK	1	271	11.99			13.0	0.0
100	QPSK	135	0	11.98			13.0	0.0
100	QPSK	135	69	12.26			13.0	0.0
100	QPSK	135	138	12.04			13.0	0.0
100	QPSK	270	0	12.24			13.0	0.0
100	16QAM	1	1	12.19			13.0	0.0
100	84QAM	1	1	11.85			13.0	0.0
100	256QAM	1	1	11.94			13.0	0.0
Channel								
Frequency (MHz)				633000	633332	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	QPSK	1	1	12.24	12.18	12.21	13.0	0.0
Frequency (MHz)				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	12.16	11.93	12.02	13.0	0.0
Frequency (MHz)				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	11.96	11.98	12.22	13.0	0.0
Frequency (MHz)				632000	633332	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	QPSK	1	1	11.99	11.91	12.22	13.0	0.0
Frequency (MHz)				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	QPSK	1	1	12.18	12.14	12.00	13.0	0.0
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3528.98		
40	QPSK	1	1	12.04	12.01	12.10	13.0	0.0
Frequency (MHz)				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	12.14	12.18	12.12	13.0	0.0
Frequency (MHz)				630668	633332	635998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3537.98		
25	QPSK	1	1	12.02	12.14	12.12	13.0	0.0
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20								





### Part27Q\_n77(HPUe)\_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)				633332	633332	633332		
100	Pi2 BPSK	1	1	15.11				
100	Pi2 BPSK	1	137	15.04			18.0	0.0
100	Pi2 BPSK	1	221	14.93				
100	Pi2 BPSK	135	0	15.04			18.0	0.0
100	Pi2 BPSK	135	69	14.91			18.0	0.0
100	Pi2 BPSK	135	138	14.84			18.0	0.0
100	Pi2 BPSK	270	0	14.93				
100	QPSK	1	1	15.23				
100	QPSK	1	137	15.28			18.0	0.0
100	QPSK	1	221	15.02				
100	QPSK	135	0	15.03				
100	QPSK	135	69	15.30			18.0	0.0
100	QPSK	135	138	14.84				
100	QPSK	270	0	15.28				
100	16QAM	1	1	15.28			18.0	0.0
100	64QAM	1	1	14.88			18.0	0.0
100	256QAM	1	1	15.02			18.0	0.0
Channel								
Frequency (MHz)				633000	633332	633666		
90	QPSK	1	1	15.10	15.15	15.03	18.0	0.0
Channel								
Frequency (MHz)				633666	633332	633000		
80	QPSK	1	1	14.95	15.09	14.90	18.0	0.0
Channel								
Frequency (MHz)				632334	633332	634332		
70	QPSK	1	1	15.03	15.04	15.02	18.0	0.0
Channel								
Frequency (MHz)				632000	633332	634666		
60	QPSK	1	1	15.05	15.08	14.99	18.0	0.0
Channel								
Frequency (MHz)				631668	633332	635000		
50	QPSK	1	1	15.08	15.04	15.03	18.0	0.0
Channel								
Frequency (MHz)				631334	633332	635332		
40	QPSK	1	1	15.05	15.08	14.91	18.0	0.0
Channel								
Frequency (MHz)				631000	633332	635666		
30	QPSK	1	1	15.08	15.12	15.00	18.0	0.0
Channel								
Frequency (MHz)				630666	633332	636000		
25	QPSK	1	1	14.93	15.11	14.90	18.0	0.0
Channel								
Frequency (MHz)				630334	633332	636332		
20	QPSK	1	1	15.03	15.05	15.00	18.0	0.0
Channel								
Frequency (MHz)				630000	633332	636666		
15	QPSK	1	1	14.93	15.09	14.97	18.0	0.0
Channel								
Frequency (MHz)				629666	633332	637000		
10	Pi2 BPSK	1	1	15.02	15.12	15.02	18.0	0.0

### Part27O\_n77\_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)				650000	650000	650000		
100	Pi2 BPSK	1	1	11.86	11.79	11.72		
100	Pi2 BPSK	1	137	11.80	11.71	11.69	13.0	0.0
100	Pi2 BPSK	1	221	11.72	11.72	11.62		
100	Pi2 BPSK	135	0	11.71	11.82	11.74	13.0	0.0
100	Pi2 BPSK	135	69	11.72	11.76	11.74	13.0	0.0
100	Pi2 BPSK	135	138	11.48	11.58	11.55	13.0	0.0
100	Pi2 BPSK	270	0	11.57	11.83	11.62		
100	QPSK	1	1	11.81	11.88	11.52		
100	QPSK	1	137	11.80	11.84	11.78	13.0	0.0
100	QPSK	1	221	11.71	11.75	11.71		
100	QPSK	135	0	11.82	11.71	11.80		
100	QPSK	135	69	11.83	11.87	11.82	13.0	0.0
100	QPSK	135	138	11.69	11.83	11.75		
100	QPSK	270	0	11.81	11.85	11.71	13.0	0.0
100	16QAM	1	1	11.89	11.74	11.85	13.0	0.0
100	64QAM	1	1	11.77	11.84	11.71	13.0	0.0
100	256QAM	1	1	11.82	11.87	11.77	13.0	0.0
Channel								
Frequency (MHz)				648668	650000	652332		
90	QPSK	1	1	11.76	11.75	11.77	13.0	0.0
Channel								
Frequency (MHz)				648334	650000	652666		
80	QPSK	1	1	11.72	11.87	11.88	13.0	0.0
Channel								
Frequency (MHz)				648000	650000	653000		
70	QPSK	1	1	11.86	11.86	11.85	13.0	0.0
Channel								
Frequency (MHz)				647666	650000	653332		
60	QPSK	1	1	11.58	11.88	11.78	13.0	0.0
Channel								
Frequency (MHz)				647332	650000	653666		
50	QPSK	1	1	11.84	11.77	11.81	13.0	0.0
Channel								
Frequency (MHz)				647000	650000	654000		
40	QPSK	1	1	11.83	11.86	11.84	13.0	0.0
Channel								
Frequency (MHz)				646668	650000	654332		
30	QPSK	1	1	11.79	11.80	11.81	13.0	0.0
Channel								
Frequency (MHz)				646334	650000	654666		
25	QPSK	1	1	11.81	11.82	11.78	13.0	0.0
Channel								
Frequency (MHz)				646000	650000	655000		
20	QPSK	1	1	11.86	11.85	11.80	13.0	0.0
Channel								
Frequency (MHz)				645666	650000	655332		
15	QPSK	1	1	11.85	11.85	11.78	13.0	0.0
Channel								
Frequency (MHz)				645332	650000	655666		
10	Pi2 BPSK	1	1	11.82	11.76	11.73	13.0	0.0

### Part27O\_n77(HPUe)\_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)				650000	650000	650000		
100	Pi2 BPSK	1	1	15.05	14.89	15.04		
100	Pi2 BPSK	1	137	15.09	15.04	15.04	18.0	0.0
100	Pi2 BPSK	1	221	14.97	14.94	14.96		
100	Pi2 BPSK	135	0	15.02	14.99	14.91	16.0	0.0
100	Pi2 BPSK	135	69	14.90	14.79	14.78	16.0	0.0
100	Pi2 BPSK	135	138	14.87	14.74	14.75	16.0	0.0
100	Pi2 BPSK	270	0	14.91	14.86	14.79		
100	QPSK	1	1	15.09	15.16	15.08		
100	QPSK	1	137	15.08	15.11	15.08	16.0	0.0
100	QPSK	1	221	15.08	14.98	15.06		
100	QPSK	135	0	14.89	15.12	15.00		
100	QPSK	135	69	14.93	15.14	15.06	16.0	0.0
100	QPSK	135	138	14.83	15.04	14.97		
100	QPSK	270	0	14.88	15.12	14.95	16.0	0.0
100	16QAM	1	1	15.01	14.98	14.83	16.0	0.0
100	64QAM	1	1	14.88	14.82	14.87	16.0	0.0
100	256QAM	1	1	14.80	14.79	14.77	16.0	0.0
Channel								
Frequency (MHz)				649668	650000	652332		
90	QPSK	1	1	14.91	15.13	14.88	16.0	0.0
Channel								
Frequency (MHz)				649334	650000	652666		
80	QPSK	1	1	15.02	14.93	14.81	16.0	0.0
Channel								
Frequency (MHz)				649000	650000	653000		
70	QPSK	1	1	14.92	15.09	15.15	16.0	0.0
Channel								
Frequency (MHz)				648666	650000	653332		
60	QPSK	1	1	14.88	14.96	15.04	16.0	0.0
Channel								
Frequency (MHz)				648332	650000	653666		
50	QPSK	1	1	15.08	15.12	15.13	16.0	0.0
Channel								
Frequency (MHz)				648000	650000	654000		
40	QPSK	1	1	15.15	15.04	15.11	16.0	0.0
Channel								
Frequency (MHz)				647668	650000	654332		
30	QPSK	1	1	14.97	14.91	14.80	16.0	0.0
Channel								
Frequency (MHz)				647330	650000	654666		
25	QPSK	1	1	14.97	15.13	15.15	16.0	0.0
Channel								
Frequency (MHz)				647000	650000	655000		
20	QPSK	1	1	14.90	14.98	15.03	16.0	0.0
Channel								
Frequency (MHz)				646668	650000	655332		
15	QPSK	1	1	15.00	15.00	15.11	16.0	0.0
Channel								
Frequency (MHz)				646330	650000	655666		
10	Pi2 BPSK	1	1	15.07	15.13	15.08	16.0	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)									
63332									
3499.98									
100	PI2 BPSK	1	1	11.79					
100	PI2 BPSK	1	137	11.97			13.0	0.0	
100	PI2 BPSK	1	271	11.81					
100	PI2 BPSK	135	0	11.80			13.0	0.0	
100	PI2 BPSK	135	69	11.85			13.0	0.0	
100	PI2 BPSK	135	138	11.81			13.0	0.0	
100	PI2 BPSK	270	0	11.86					
100	QPSK	1	1	12.24					
100	QPSK	1	137	12.00			13.0	0.0	
100	QPSK	1	271	11.85					
100	QPSK	135	0	11.83					
100	QPSK	135	69	12.21			13.0	0.0	
100	QPSK	135	138	12.00					
100	QPSK	270	0	12.18			13.0	0.0	
100	16QAM	1	1	12.24			13.0	0.0	
100	64QAM	1	1	11.88			13.0	0.0	
100	256QAM	1	1	11.84			13.0	0.0	
Channel									
Frequency (MHz)									
63300									
63334									
63668									
3495									
3500.01									
3505.02									
3510.03									
90	QPSK	1	1	12.14	12.17	12.12	13.0	0.0	
Channel									
Frequency (MHz)									
63698									
63334									
63400									
3499.02									
3500.01									
3510.03									
80	QPSK	1	1	11.92	12.01	11.94	13.0	0.0	
Channel									
Frequency (MHz)									
63234									
63334									
63434									
3485.01									
3500.01									
3515.01									
70	QPSK	1	1	12.06	12.18	11.86	13.0	0.0	
Channel									
Frequency (MHz)									
63200									
63334									
63668									
3495									
3500.01									
3520.02									
60	QPSK	1	1	12.20	11.97	12.03	13.0	0.0	
Channel									
Frequency (MHz)									
63168									
63334									
63000									
3475.02									
3500.01									
3525									
50	QPSK	1	1	12.05	12.03	11.97	13.0	0.0	
Channel									
Frequency (MHz)									
63184									
63332									
63332									
3470.01									
3499.98									
3539.98									
40	QPSK	1	1	11.86	12.20	12.15	13.0	0.0	
Channel									
Frequency (MHz)									
63100									
63332									
63668									
3465									
3499.98									
3534.99									
30	QPSK	1	1	12.17	12.16	12.04	13.0	0.0	
Channel									
Frequency (MHz)									
63684									
63332									
63682									
3482.51									
3499.98									
3537.48									
25	QPSK	1	1	11.91	12.00	12.11	13.0	0.0	
Channel									
Frequency (MHz)									
63068									
63332									
63000									
3460.02									
3499.98									
3540									
20	QPSK	1	1	12.13	11.99	12.14	13.0	0.0	
Channel									
Frequency (MHz)									
63050									
63332									
63616									
3457.5									
3499.98									
3542.49									
15	QPSK	1	1	12.07	11.96	12.12	13.0	0.0	
Channel									
Frequency (MHz)									
63034									
63332									
63632									
3455.01									
3499.98									
3544.98									
10	PI2 BPSK	1	1	12.05	12.15	12.20	13.0	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)									
65000									
3750									
100	PI2 BPSK	1	1	11.70					
100	PI2 BPSK	1	137	11.60			13.0	0.0	
100	PI2 BPSK	1	271	11.64					
100	PI2 BPSK	135	0	11.70			13.0	0.0	
100	PI2 BPSK	135	69	11.71			13.0	0.0	
100	PI2 BPSK	135	138	11.44			13.0	0.0	
100	PI2 BPSK	270	0	11.80					
100	QPSK	1	1	11.63					
100	QPSK	1	137	11.76			13.0	0.0	
100	QPSK	1	271	11.68					
100	QPSK	135	0	11.60					
100	QPSK	135	69	11.78			13.0	0.0	
100	QPSK	135	138	11.60					
100	QPSK	270	0	11.75			13.0	0.0	
100	16QAM	1	1	11.70			13.0	0.0	
100	64QAM	1	1	11.74			13.0	0.0	
100	256QAM	1	1	11.80			13.0	0.0	
Channel									
Frequency (MHz)									
64668									
65000									
65032									
3745.02									
3750									
3754.98									
90	QPSK	1	1	11.82	11.71	11.81	13.0	0.0	
Channel									
Frequency (MHz)									
64834									
65000									
65096									
3740.01									
3750									
3759.99									
80	QPSK	1	1	11.73	11.58	11.71	13.0	0.0	
Channel									
Frequency (MHz)									
64600									
65000									
65100									
3745.01									
3750									
3765									
70	QPSK	1	1	11.81	11.77	11.83	13.0	0.0	
Channel									
Frequency (MHz)									
64668									
65000									
65192									
3730.02									
3750									
3759.98									
60	QPSK	1	1	11.81	11.49	11.71	13.0	0.0	
Channel									
Frequency (MHz)									
64834									
65000									
65168									
3725.01									
3750									
3774.99									
50	QPSK	1	1	11.69	11.43	11.79	13.0	0.0	
Channel									
Frequency (MHz)									
64600									
65000									
65200									
3720									
3750									
3760									
40	QPSK	1	1	11.65	11.48	11.60	13.0	0.0	
Channel									
Frequency (MHz)									
64768									
65000									
65232									
3715.02									
3750									
3784.98									
30	QPSK	1	1	11.74	11.50	11.77	13.0	0.0	
Channel									
Frequency (MHz)									
64700									
65000									
65200									
3720									
3750									
3780									
25	QPSK	1	1	11.61	11.51	11.80	13.0	0.0	
Channel									
Frequency (MHz)									
64734									
65000									
65268									
3710.01									
3750									
3789.98									
20	QPSK	1	1	11.69	11.57	11.71	13.0	0.0	
Channel									
Frequency (MHz)									
64718									
65000									
65232									
3707.52									
3750									
3792.48									
15	QPSK	1	1	11.62	11.75	11.53	13.0	0.0	
Channel									
Frequency (MHz)									
64700									
65000									
65300									
3705									
3750									
3795									
10	PI2 BPSK	1	1	11.57	11.63	11.80	13.0	0.0	

Part27Q_n77_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)									
63332									
3499.98									
100	PI2 BPSK	1	1	13.93					
100	PI2 BPSK	1	137	13.88			15.0	0.0	
100	PI2 BPSK	1	271	13.79					
100	PI2 BPSK	135	0	13.93			15.0	0.0	
100	PI2 BPSK	135	69	13.91			15.0	0.0	
100	PI2 BPSK	135	138	13.86			15.0	0.0	
100	PI2 BPSK	270	0	13.88					
100	QPSK	1	1	14.02					
100	QPSK	1	137	13.90			15.0	0.0	
100	QPSK	1	271	13.81					
100	QPSK	135	0	14.01					
100	QPSK	135	69	13.85			15.0	0.0	
100	QPSK	135	138	13.84					
100	QPSK	270	0	13.97			15.0	0.0	
100	16QAM	1	1	13.81			15.0	0.0	
100	64QAM	1	1	13.82			15.0	0.0	
100	256QAM	1	1	13.95			15.0	0.0	
Channel									
Frequency (MHz)									
63300									
63332									
63666									
3495									
3499.98									
3504.99									
90	QPSK	1	1	13.88	14.01	13.85	15.0	0.0	
Channel									
Frequency (MHz)									
63068									
63332									
63400									
3490.02									
3499.98									
3510									
80	QPSK	1	1	13.86	13.88	13.85	15.0	0.0	
Channel									
Frequency (MHz)									
63234									
63332									
63432									
3485.01									
3499.98									
3514.98									
70	QPSK	1	1	13.87	14.00	13.95	15.0	0.0	
Channel									
Frequency (MHz)									
63200									
63332									
63666									
3490									
3499.98									
3519.99									
60	QPSK	1	1	13.70	13.88	13.83	15.0	0.0	
Channel									
Frequency (MHz)									
63168									
63332									
63000									
3475.02									
3499.98									
3525									
50	QPSK	1	1	13.75	13.93	13.89	15.0	0.0	
Channel									
Frequency (MHz)									
63184									
63332									
63332									
3470.01									
3499.98									
3539.98									
40	QPSK	1	1	13.82	13.91	13.82	15.0	0.0	
Channel									
Frequency (MHz)									
63100									
63332									
63666									
3465									
3499.98									
3534.99									
30	QPSK	1	1	13.81	14.00	13.91	15.0	0.0	
Channel									
Frequency (MHz)									
63684									
63332									
63682									
3482.51									
3499.98									
3537.48									
25	QPSK	1	1	13.88	13.92	13.84	15.0	0.0	
Channel									
Frequency (MHz)									
63068									
63332									
63600									
3460.02									
3499.98									
3540									
20	QPSK	1	1	13.71	13.89	13.92	15.0	0.0	
Channel									
Frequency (MHz)									
63050									
63332									
63616									
3457.5									
3499.98									
3542.49									
15	QPSK	1	1	13.83	13.97	13.92	15.0	0.0	
Channel									
Frequency (MHz)									
63034									
63332									
63632									
3455.01									
3499.98									
3544.98									
10	PI2 BPSK	1	1	13.72	13.98	13.82	15.0	0.0	

**Part27Q\_n77(HPUE)\_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)								
				633332	633332	633332		
				3459.98	3459.98	3504.99		
100	Pi/2 BPSK	1	1	16.87	16.89	17.03	18.0	0.0
100	Pi/2 BPSK	1	137	16.98	16.98	16.98	18.0	0.0
100	Pi/2 BPSK	1	271	16.85	16.85	16.85	18.0	0.0
100	Pi/2 BPSK	135	0	16.99	16.99	16.99	18.0	0.0
100	Pi/2 BPSK	135	69	16.95	16.95	16.95	18.0	0.0
100	Pi/2 BPSK	135	138	16.94	16.94	16.94	18.0	0.0
100	Pi/2 BPSK	270	0	16.97	16.97	16.97	18.0	0.0
100	QPSK	1	1	17.13	17.13	17.13	18.0	0.0
100	QPSK	1	137	17.02	17.02	17.02	18.0	0.0
100	QPSK	1	271	16.86	16.86	16.86	18.0	0.0
100	QPSK	135	0	16.94	16.94	16.94	18.0	0.0
100	QPSK	135	69	16.92	16.92	16.92	18.0	0.0
100	QPSK	135	138	16.92	16.92	16.92	18.0	0.0
100	QPSK	270	0	17.06	17.06	17.06	18.0	0.0
100	64QAM	1	1	16.95	16.95	16.95	18.0	0.0
100	64QAM	1	137	16.98	16.98	16.98	18.0	0.0
100	256QAM	1	1	17.08	17.08	17.08	18.0	0.0
Channel								
Frequency (MHz)								
				633000	633332	633666		
				3495	3459.98	3504.99		
90	QPSK	1	1	16.87	16.89	17.03	18.0	0.0
Channel								
Frequency (MHz)								
				633000	633332	634000		
				3490.02	3459.98	3510		
80	QPSK	1	1	16.95	16.88	16.95	18.0	0.0
Channel								
Frequency (MHz)								
				632334	633332	634332		
				3485.01	3459.98	3514.98		
70	QPSK	1	1	16.97	16.77	16.90	18.0	0.0
Channel								
Frequency (MHz)								
				632000	633332	634666		
				3490.02	3459.98	3510		
60	QPSK	1	1	16.90	16.82	16.95	18.0	0.0
Channel								
Frequency (MHz)								
				631668	633332	635000		
				3475.02	3459.98	3525		
50	QPSK	1	1	16.89	16.82	16.95	18.0	0.0
Channel								
Frequency (MHz)								
				631334	633332	635332		
				3470.01	3459.98	3529.98		
40	QPSK	1	1	16.83	16.85	16.90	18.0	0.0
Channel								
Frequency (MHz)								
				631000	633332	635666		
				3465	3459.98	3534.99		
30	QPSK	1	1	16.84	16.80	16.91	18.0	0.0
Channel								
Frequency (MHz)								
				630666	633332	636000		
				3460.02	3459.98	3540		
25	QPSK	1	1	16.86	16.84	16.93	18.0	0.0
Channel								
Frequency (MHz)								
				630668	633332	636000		
				3460.02	3459.98	3540		
20	QPSK	1	1	16.91	16.83	16.96	18.0	0.0
Channel								
Frequency (MHz)								
				630500	633332	636166		
				3452.5	3459.98	3542.49		
15	QPSK	1	1	16.90	16.86	16.93	18.0	0.0
Channel								
Frequency (MHz)								
				630334	633332	636332		
				3455.01	3459.98	3544.98		
10	Pi/2 BPSK	1	1	16.82	16.89	16.91	18.0	0.0

**Part27O\_n77\_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)								
				650000	650000	652000		
				3750	3840	3930		
100	Pi/2 BPSK	1	1	13.43	13.80	13.43	15.0	0.0
100	Pi/2 BPSK	1	137	13.67	13.73	13.72	15.0	0.0
100	Pi/2 BPSK	1	271	13.86	13.70	13.67	15.0	0.0
100	Pi/2 BPSK	135	0	13.57	13.61	13.49	15.0	0.0
100	Pi/2 BPSK	135	69	13.65	13.65	13.58	15.0	0.0
100	Pi/2 BPSK	135	138	13.58	13.58	13.48	15.0	0.0
100	Pi/2 BPSK	270	0	13.57	13.64	13.63	15.0	0.0
100	QPSK	1	1	13.95	13.88	13.75	15.0	0.0
100	QPSK	1	137	13.89	13.67	13.65	15.0	0.0
100	QPSK	1	271	13.82	13.70	13.65	15.0	0.0
100	QPSK	135	0	13.55	13.57	13.53	15.0	0.0
100	QPSK	135	69	13.76	13.86	13.69	15.0	0.0
100	QPSK	135	138	13.55	13.60	13.54	15.0	0.0
100	QPSK	270	0	13.81	13.83	13.78	15.0	0.0
100	64QAM	1	1	13.89	13.70	13.61	15.0	0.0
100	64QAM	1	137	13.51	13.56	13.54	15.0	0.0
100	256QAM	1	1	13.44	13.50	13.47	15.0	0.0
Channel								
Frequency (MHz)								
				649668	650000	652332		
				3745.02	3840	3934.98		
90	QPSK	1	1	13.88	13.67	13.71	15.0	0.0
Channel								
Frequency (MHz)								
				649334	650000	652666		
				3740.01	3840	3939.99		
80	QPSK	1	1	13.80	13.63	13.62	15.0	0.0
Channel								
Frequency (MHz)								
				648900	650000	653000		
				3735	3840	3945		
70	QPSK	1	1	13.84	13.75	13.70	15.0	0.0
Channel								
Frequency (MHz)								
				648568	650000	653332		
				3730.02	3840	3949.98		
60	QPSK	1	1	13.80	13.68	13.65	15.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	653666		
				3725.01	3840	3954.99		
50	QPSK	1	1	13.78	13.64	13.64	15.0	0.0
Channel								
Frequency (MHz)								
				648000	650000	654000		
				3720	3840	3960		
40	QPSK	1	1	13.87	13.72	13.62	15.0	0.0
Channel								
Frequency (MHz)								
				647668	650000	654332		
				3715.02	3840	3964.98		
30	QPSK	1	1	13.88	13.63	13.74	15.0	0.0
Channel								
Frequency (MHz)								
				647500	650000	654500		
				3710.01	3840	3969.99		
25	QPSK	1	1	13.82	13.65	13.68	15.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	654666		
				3710.01	3840	3969.99		
20	QPSK	1	1	13.84	13.71	13.74	15.0	0.0
Channel								
Frequency (MHz)								
				647168	650000	654832		
				3707.52	3840	3972.48		
15	QPSK	1	1	13.84	13.72	13.69	15.0	0.0
Channel								
Frequency (MHz)								
				647000	650000	655000		
				3705	3840	3975		
10	Pi/2 BPSK	1	1	13.85	13.63	13.66	15.0	0.0

**Part27O\_n77(HPUE)\_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)								
				650000	650000	652000		
				3750	3840	3930		
100	Pi/2 BPSK	1	1	16.58	16.53	16.50	18.0	0.0
100	Pi/2 BPSK	1	137	16.67	16.63	16.65	18.0	0.0
100	Pi/2 BPSK	1	271	16.72	16.71	16.63	18.0	0.0
100	Pi/2 BPSK	135	0	16.56	16.56	16.47	18.0	0.0
100	Pi/2 BPSK	135	69	16.66	16.65	16.61	18.0	0.0
100	Pi/2 BPSK	135	138	16.58	16.48	16.53	18.0	0.0
100	Pi/2 BPSK	270	0	16.62	16.60	16.59	18.0	0.0
100	QPSK	1	1	16.74	16.59	16.72	18.0	0.0
100	QPSK	1	137	16.72	16.68	16.68	18.0	0.0
100	QPSK	1	271	16.68	16.65	16.70	18.0	0.0
100	QPSK	135	0	16.60	16.61	16.66	18.0	0.0
100	QPSK	135	69	16.62	16.94	16.82	18.0	0.0
100	QPSK	135	138	16.58	16.52	16.53	18.0	0.0
100	QPSK	270	0	16.64	16.62	16.61	18.0	0.0
100	64QAM	1	1	16.60	16.51	16.54	18.0	0.0
100	64QAM	1	137	16.34	16.34	16.25	18.0	0.0
100	256QAM	1	1	16.32	16.28	16.19	18.0	0.0
Channel								
Frequency (MHz)								
				649668	650000	652332		
				3745.02	3840	3934.98		
90	QPSK	1	1	16.97	16.66	16.61	18.0	0.0
Channel								
Frequency (MHz)								
				649334	650000	652666		
				3740.01	3840	3939.99		
80	QPSK	1	1	16.89	16.65	16.71	18.0	0.0
Channel								
Frequency (MHz)								
				649000	650000	653000		
				3735	3840	3945		
70	QPSK	1	1	16.92	16.74	16.70	18.0	0.0
Channel								
Frequency (MHz)								
				648568	650000	653332		
				3730.02	3840	3949.98		
60	QPSK	1	1	16.96	16.62	16.66	18.0	0.0
Channel								
Frequency (MHz)								
				648334	650000	653666		
				3725.01	3840	3954.99		
50	QPSK	1	1	16.95	16.74	16.59	18.0	0.0
Channel								
Frequency (MHz)								
				648000	650000	654000		
				3720	3840	3960		
40	QPSK	1	1	16.98	16.63	16.62	18.0	0.0
Channel								
Frequency (MHz)								
				647668	650000	654332		
				3715.02	3840	3964.98		
30	QPSK	1	1	16.82	16.69	16.67	18.0	0.0
Channel								
Frequency (MHz)								
				647500	650000	654500		
				3710.01	3840	3969.99		
25	QPSK	1	1	16.83	16.71	16.59	18.0	0.0
Channel								
Frequency (MHz)								
				647334	650000	654666		
				3710.01	3840	3969.99		
20	QPSK	1	1	16.88	16.69	16.67	18.0	0.0
Channel								
Frequency (MHz)								
				647168	650000	654832		
				3707.52	3840	3972.48		
15	QPSK	1	1	16.86	16.71	16.69	18.0	0.0
Channel								
Frequency (MHz)								
				647000	650000	655000		
				3705	3840	3975		
10	Pi/2 BPSK	1	1	16.87	16.68	16.68	18.0	0.0



### Part27Q\_n78\_Ant 9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Midst Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
633332								
3499.98								
100	PI/2 BPSK	1	1	13.62				
100	PI/2 BPSK	1	137	13.70			15.0	0.0
100	PI/2 BPSK	1	271	13.71			15.0	0.0
100	PI/2 BPSK	135	0	13.83			15.0	0.0
100	PI/2 BPSK	135	69	13.79			15.0	0.0
100	PI/2 BPSK	135	138	13.83			15.0	0.0
100	PI/2 BPSK	270	0	13.79			15.0	0.0
100	QPSK	1	1	13.86			15.0	0.0
100	QPSK	1	117	13.79			15.0	0.0
100	QPSK	1	271	13.78			15.0	0.0
100	QPSK	135	0	13.86			15.0	0.0
100	QPSK	135	69	13.75			15.0	0.0
100	QPSK	135	138	13.89			15.0	0.0
100	QPSK	270	0	13.84			15.0	0.0
100	MSAM	1	1	13.52			15.0	0.0
100	MSAM	1	1	13.81			15.0	0.0
100	256QAM	1	1	13.83			15.0	0.0
Channel								
Frequency (MHz)								
633000								
3495								
3500.01								
3505.02								
90	QPSK	1	1	13.73	13.64	13.75	15.0	0.0
Channel								
Frequency (MHz)								
633668								
3492.02								
3500.01								
3510								
80	QPSK	1	1	13.52	13.42	13.60	15.0	0.0
Channel								
Frequency (MHz)								
632334								
3485.01								
3500.01								
3515.01								
70	QPSK	1	1	13.58	13.49	13.60	15.0	0.0
Channel								
Frequency (MHz)								
630000								
3490								
3500.01								
3530.02								
60	QPSK	1	1	13.84	13.70	13.47	15.0	0.0
Channel								
Frequency (MHz)								
631668								
3475.02								
3500.01								
3525								
50	QPSK	1	1	13.62	13.62	13.78	15.0	0.0
Channel								
Frequency (MHz)								
631334								
3470.01								
3490.98								
3530.98								
40	QPSK	1	1	13.70	13.96	13.47	15.0	0.0
Channel								
Frequency (MHz)								
631000								
3465								
3499.98								
3534.99								
30	QPSK	1	1	13.84	13.58	13.64	15.0	0.0
Channel								
Frequency (MHz)								
630668								
3462.51								
3499.98								
3537.48								
25	QPSK	1	1	13.88	13.89	13.59	15.0	0.0
Channel								
Frequency (MHz)								
630668								
3460.02								
3499.98								
3540								
20	QPSK	1	1	13.76	13.39	13.58	15.0	0.0
Channel								
Frequency (MHz)								
630500								
3459.5								
3499.98								
3542.89								
15	QPSK	1	1	13.72	13.70	13.80	15.0	0.0
Channel								
Frequency (MHz)								
630334								
3455.01								
3499.98								
3544.98								
10	PI/2 BPSK	1	1	13.67	13.58	13.72	15.0	0.0

### Part27O\_n78\_Ant 9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Midst Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
650000								
3750								
100	PI/2 BPSK	1	1	13.33				
100	PI/2 BPSK	1	137	13.46			15.0	0.0
100	PI/2 BPSK	1	271	13.57			15.0	0.0
100	PI/2 BPSK	135	0	13.49			15.0	0.0
100	PI/2 BPSK	135	69	13.44			15.0	0.0
100	PI/2 BPSK	135	138	13.47			15.0	0.0
100	PI/2 BPSK	270	0	13.42			15.0	0.0
100	QPSK	1	1	13.77			15.0	0.0
100	QPSK	1	117	13.49			15.0	0.0
100	QPSK	1	271	13.50			15.0	0.0
100	QPSK	135	0	13.45			15.0	0.0
100	QPSK	135	69	13.75			15.0	0.0
100	QPSK	135	138	13.46			15.0	0.0
100	QPSK	270	0	13.71			15.0	0.0
100	MSAM	1	1	13.61			15.0	0.0
100	MSAM	1	1	13.82			15.0	0.0
100	256QAM	1	1	13.13			15.0	0.0
Channel								
Frequency (MHz)								
649668								
3745.02								
3750								
3754.98								
90	QPSK	1	1	13.74	13.67	13.64	15.0	0.0
Channel								
Frequency (MHz)								
649334								
3740.01								
3750								
3759.99								
80	QPSK	1	1	13.46	13.67	13.55	15.0	0.0
Channel								
Frequency (MHz)								
649000								
3735								
3750								
3765								
70	QPSK	1	1	13.67	13.66	13.63	15.0	0.0
Channel								
Frequency (MHz)								
648668								
3730.02								
3750								
3769.98								
60	QPSK	1	1	13.65	13.51	13.63	15.0	0.0
Channel								
Frequency (MHz)								
648334								
3725.01								
3750								
3774.99								
50	QPSK	1	1	13.49	13.53	13.45	15.0	0.0
Channel								
Frequency (MHz)								
648000								
3720								
3750								
3780								
40	QPSK	1	1	13.81	13.58	13.85	15.0	0.0
Channel								
Frequency (MHz)								
647668								
3715.02								
3750								
3784.98								
30	QPSK	1	1	13.50	13.56	13.72	15.0	0.0
Channel								
Frequency (MHz)								
647334								
3710.01								
3750								
3789.98								
25	QPSK	1	1	13.72	13.56	13.52	15.0	0.0
Channel								
Frequency (MHz)								
647000								
3705								
3750								
3795								
20	QPSK	1	1	13.74	13.51	13.56	15.0	0.0
Channel								
Frequency (MHz)								
646668								
3700.02								
3750								
3800								
15	QPSK	1	1	13.59	13.43	13.70	15.0	0.0
Channel								
Frequency (MHz)								
646334								
3695.01								
3750								
3805								
10	PI/2 BPSK	1	1	13.57	13.58	13.39	15.0	0.0



Reduced Power Mode for DS16

n2\_Ant 1

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). Includes rows for Channel, Frequency (MHz), and various modulation schemes like Pi/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM.

n2\_Ant 2

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). Includes rows for Channel, Frequency (MHz), and various modulation schemes like Pi/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM.

n5\_Ant 0

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). Includes rows for Channel, Frequency (MHz), and various modulation schemes like Pi/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM.

**n5\_Ant 1**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				166800	167300	167800		
				834	836.5	839		
20	PI2 BPSK	1	1	23.10	23.09	23.08		
20	PI2 BPSK	1	53	23.05	23.05	23.14	24.0	0.0
20	PI2 BPSK	1	104	23.07	23.10	22.27		
20	PI2 BPSK	50	0	22.53	22.62	22.55	23.5	0.5
20	PI2 BPSK	50	28	23.05	23.01	23.14	24.0	0.0
20	PI2 BPSK	50	56	22.58	22.83	22.40		
20	PI2 BPSK	100	0	22.81	22.79	22.77	23.5	0.5
20	QPSK	1	1	23.04	23.15	23.05		
20	QPSK	1	53	22.99	23.06	23.01	24.0	0.0
20	QPSK	1	104	22.99	22.62	22.61		
20	QPSK	50	0	22.13	22.11	22.11	23.0	1.0
20	QPSK	50	28	23.05	23.07	22.91	24.0	0.0
20	QPSK	50	56	21.99	21.97	21.90		
20	QPSK	100	0	22.00	22.04	22.03	23.0	1.0
20	16QAM	1	1	22.13	22.10	22.08	23.0	1.0
20	64QAM	1	1	20.45	20.47	20.45	21.5	2.5
20	256QAM	1	1	18.59	18.62	18.60	19.5	4.5
Channel								
Frequency (MHz)				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
				831.5	836.5	841.5		
15	QPSK	1	1	22.92	23.08	23.10	24.0	0.0
Channel								
Frequency (MHz)				168800	167300	168800	Tune-up limit (dBm)	MPR (dB)
				829	836.5	844		
10	QPSK	1	1	22.88	23.11	22.95	24.0	0.0
Channel								
Frequency (MHz)				165300	167300	165300	Tune-up limit (dBm)	MPR (dB)
				826.5	836.5	846.5		
5	QPSK	1	1	23.03	22.97	22.90	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)				504000	507000	510000		
				2520	2535	2550		
40	PI2 BPSK	1	1	17.67	17.80	17.84		
40	PI2 BPSK	1	108	17.85	18.01	17.85	19.0	0.0
40	PI2 BPSK	1	214	17.79	17.90	17.84		
40	PI2 BPSK	108	0	17.89	17.95	17.94	19.0	0.0
40	PI2 BPSK	108	54	17.80	17.88	17.75	19.0	0.0
40	PI2 BPSK	108	108	17.84	17.91	17.77		
40	PI2 BPSK	216	0	17.87	17.92	17.83	19.0	0.0
40	QPSK	1	1	17.96	18.08	17.99		
40	QPSK	1	108	17.78	17.92	17.81	19.0	0.0
40	QPSK	1	214	17.89	17.85	17.72		
40	QPSK	108	0	17.84	17.90	17.79	19.0	0.0
40	QPSK	108	54	17.83	18.06	17.95	19.0	0.0
40	QPSK	108	108	17.75	17.83	17.79		
40	QPSK	216	0	17.84	18.05	17.84	19.0	0.0
40	16QAM	1	1	17.72	17.87	17.80	19.0	0.0
40	64QAM	1	1	17.63	17.81	17.72	19.0	0.0
40	256QAM	1	1	17.73	17.89	17.72	19.0	0.0
Channel								
Frequency (MHz)				505000	507000	510000	Tune-up limit (dBm)	MPR (dB)
				2515	2535	2555		
30	QPSK	1	1	17.84	17.83	17.86	19.0	0.0
Channel								
Frequency (MHz)				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
				2525	2535	2575		
25	QPSK	1	1	17.89	17.86	17.81	19.0	0.0
Channel								
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
				2510	2535	2560		
20	QPSK	1	1	17.80	17.89	17.88	19.0	0.0
Channel								
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
				2507.5	2535	2562.5		
15	QPSK	1	1	17.80	17.84	17.66	19.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
				2505	2535	2565		
10	QPSK	1	1	17.81	17.81	17.89	19.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
				2502.5	2535	2567.5		
5	QPSK	1	1	17.75	17.87	17.83	19.0	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)				141300	141500	141700		
				706.5	707.5	708.5		
15	PI2 BPSK	1	1	23.15	23.14	23.16		
15	PI2 BPSK	1	40	23.11	23.11	23.16	24.0	0.0
15	PI2 BPSK	1	77	23.17	23.11	23.19		
15	PI2 BPSK	38	0	22.81	22.72	22.89	23.5	0.5
15	PI2 BPSK	38	22	23.11	23.17	23.16	24.0	0.0
15	PI2 BPSK	38	43	22.78	22.78	22.78		
15	PI2 BPSK	75	0	22.79	22.72	22.73	23.5	0.5
15	QPSK	1	1	23.16	23.22	23.16		
15	QPSK	1	40	23.12	23.20	23.17	24.0	0.0
15	QPSK	1	77	23.15	23.18	23.14		
15	QPSK	38	0	22.16	22.18	22.19	23.0	1.0
15	QPSK	38	22	23.13	23.20	23.16	24.0	0.0
15	QPSK	38	43	22.27	22.11	22.24		
15	QPSK	75	0	22.24	22.27	22.26	23.0	1.0
15	16QAM	1	1	21.67	22.15	22.45	23.0	1.0
15	64QAM	1	1	20.68	20.86	21.02	21.5	2.5
15	256QAM	1	1	18.29	18.24	18.52	19.5	4.5
Channel								
Frequency (MHz)				140500	141500	142500	Tune-up limit (dBm)	MPR (dB)
				704	707.5	711		
10	QPSK	1	1	23.06	23.12	23.02	24.0	0.0
Channel								
Frequency (MHz)				140300	141500	142700	Tune-up limit (dBm)	MPR (dB)
				701.5	707.5	713.5		
5	QPSK	1	1	23.02	23.16	23.07	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				158600	158600	159100		
Frequency (MHz)				793				
10	PI/2 BPSK	1	1	22.80			24.0	0.0
10	PI/2 BPSK	1	26	22.77				
10	PI/2 BPSK	1	50	22.70				
10	PI/2 BPSK	25	0	22.26			23.5	0.5
10	PI/2 BPSK	25	14	22.82			24.0	0.0
10	PI/2 BPSK	25	27	22.15				
10	PI/2 BPSK	50	0	22.29			23.5	0.5
10	QPSK	1	1	22.83			24.0	0.0
10	QPSK	1	26	22.82				
10	QPSK	1	50	22.84				
10	QPSK	25	0	21.76			23.0	1.0
10	QPSK	25	14	22.81			24.0	0.0
10	QPSK	25	27	21.73				
10	QPSK	50	0	21.78			23.0	1.0
10	16QAM	1	1	22.13			23.0	1.0
10	64QAM	1	1	20.82			21.5	2.5
10	256QAM	1	1	18.06			19.5	4.5
Channel				158100	158600	159100		
Frequency (MHz)				793				
5	QPSK	1	1	22.80	22.78	22.67	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				372000	376500	381000		
Frequency (MHz)				1860				
20	PI/2 BPSK	1	1	19.10	19.09	18.83		
20	PI/2 BPSK	1	53	19.10	19.16	19.09	20.0	0.0
20	PI/2 BPSK	1	104	18.97	19.11	19.03		
20	PI/2 BPSK	50	0	19.14	19.21	19.05	20.0	0.0
20	PI/2 BPSK	50	26	19.00	19.12	19.00	20.0	0.0
20	PI/2 BPSK	50	56	18.96	19.10	19.01		
20	PI/2 BPSK	100	0	19.06	19.15	19.07	20.0	0.0
20	QPSK	1	1	19.16	19.20	19.11		
20	QPSK	1	53	18.98	19.05	18.76	20.0	0.0
20	QPSK	1	104	18.89	19.06	18.91		
20	QPSK	50	0	19.01	19.19	18.99	20.0	0.0
20	QPSK	50	26	19.04	19.27	19.02	20.0	0.0
20	QPSK	50	56	18.94	19.13	18.95		
20	QPSK	100	0	19.11	19.25	19.13	20.0	0.0
20	16QAM	1	1	19.14	19.19	19.05	20.0	0.0
20	64QAM	1	1	19.01	19.06	18.89	20.0	0.0
20	256QAM	1	1	18.66	18.83	18.70	19.5	0.5
Channel				371500	376500	381500		
Frequency (MHz)				1857.5				
15	QPSK	1	1	19.01	19.11	18.98	20.0	0.0
Channel				371000	376500	382000		
Frequency (MHz)				1855				
10	QPSK	1	1	18.78	18.85	18.81	20.0	0.0
Channel				370500	376500	382500		
Frequency (MHz)				1852.5				
5	QPSK	1	1	19.05	19.00	18.81	20.0	0.0

### n25\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				372000	376500	381000		
Frequency (MHz)				1860				
20	PI/2 BPSK	1	1	23.13	23.28	23.22		
20	PI/2 BPSK	1	53	23.29	23.33	23.23	24.0	0.0
20	PI/2 BPSK	1	104	23.42	23.37	23.19		
20	PI/2 BPSK	50	0	22.62	22.96	22.81	23.5	0.5
20	PI/2 BPSK	50	26	23.18	23.35	23.31	24.0	0.0
20	PI/2 BPSK	50	56	22.75	22.90	22.64		
20	PI/2 BPSK	100	0	22.71	22.91	22.83	23.5	0.5
20	QPSK	1	1	23.30	23.48	23.30		
20	QPSK	1	53	23.23	23.36	23.30	24.0	0.0
20	QPSK	1	104	23.24	23.42	23.19		
20	QPSK	50	0	22.13	22.45	22.30	23.0	1.0
20	QPSK	50	26	23.21	23.45	23.31	24.0	0.0
20	QPSK	50	56	22.31	22.38	22.13		
20	QPSK	100	0	22.16	22.37	22.27	23.0	1.0
20	16QAM	1	1	22.18	22.25	22.40	23.0	1.0
20	64QAM	1	1	20.58	20.67	20.94	21.5	2.5
20	256QAM	1	1	18.51	18.75	18.69	19.5	4.5
Channel				371500	376500	381500		
Frequency (MHz)				1857.5				
15	QPSK	1	1	23.20	23.31	23.38	24.0	0.0
Channel				371000	376500	382000		
Frequency (MHz)				1855				
10	QPSK	1	1	23.05	23.37	23.10	24.0	0.0
Channel				370500	376500	382500		
Frequency (MHz)				1852.5				
5	QPSK	1	1	23.21	23.27	23.18	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								
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	23.12	23.07	23.01		
20	PI2 BPSK	1	53	23.08	23.20	23.14	24.0	0.0
20	PI2 BPSK	1	104	23.14	23.17	23.19		
20	PI2 BPSK	50	0	22.82	22.50	22.57	23.5	0.5
20	PI2 BPSK	50	28	23.08	23.13	23.12	24.0	0.0
20	PI2 BPSK	50	56	22.82	22.78	22.82		
20	PI2 BPSK	100	0	22.53	22.58	22.86	23.5	0.5
20	QPSK	1	1	23.18	23.21	23.12		
20	QPSK	1	53	23.10	23.12	23.07	24.0	0.0
20	QPSK	1	104	23.13	23.18	23.10		
20	QPSK	50	0	22.08	22.07	22.10	23.0	1.0
20	QPSK	50	28	23.10	23.16	23.12	24.0	0.0
20	QPSK	50	56	22.27	22.31	22.32		
20	QPSK	100	0	22.09	22.18	22.15	23.0	1.0
20	16QAM	1	1	22.16	22.16	22.18	23.0	1.0
20	64QAM	1	1	20.78	20.75	20.69	21.5	2.5
20	256QAM	1	1	18.23	18.26	18.26	19.5	4.5
Channel								
Frequency (MHz)				16300	16300	16300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.17	23.19	23.01	24.0	0.0
Channel								
Frequency (MHz)				16380	16300	16880	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	819	831.5	844	24.0	0.0
Channel								
Frequency (MHz)				163300	163300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.15	23.17	23.04	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								
Frequency (MHz)				824	831.5	839		
20	PI2 BPSK	1	1	23.12	23.15	23.12		
20	PI2 BPSK	1	53	23.10	23.12	23.10	24.0	0.0
20	PI2 BPSK	1	104	23.16	23.12	23.15		
20	PI2 BPSK	50	0	22.88	22.57	22.59	23.5	0.5
20	PI2 BPSK	50	28	23.07	23.12	23.09	24.0	0.0
20	PI2 BPSK	50	56	22.70	22.74	22.77		
20	PI2 BPSK	100	0	22.61	22.63	22.57	23.5	0.5
20	QPSK	1	1	23.13	23.17	23.11		
20	QPSK	1	53	23.12	23.15	23.06	24.0	0.0
20	QPSK	1	104	23.07	23.11	23.09		
20	QPSK	50	0	22.03	22.07	22.03	23.0	1.0
20	QPSK	50	28	23.11	23.14	23.05	24.0	0.0
20	QPSK	50	56	22.22	22.27	22.20		
20	QPSK	100	0	22.02	22.11	22.02	23.0	1.0
20	16QAM	1	1	21.87	21.79	21.70	23.0	1.0
20	64QAM	1	1	20.25	20.32	20.28	21.5	2.5
20	256QAM	1	1	18.72	18.73	18.62	19.5	4.5
Channel								
Frequency (MHz)				16380	16300	16880	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.02	23.08	22.88	24.0	0.0
Channel								
Frequency (MHz)				16380	16300	16880	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	819	831.5	844	24.0	0.0
Channel								
Frequency (MHz)				163300	163300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	23.07	22.97	23.14	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								
Frequency (MHz)				46200	46200	46200		
10	PI2 BPSK	1	1			19.08		
10	PI2 BPSK	1	26			19.13	20.5	0.0
10	PI2 BPSK	1	50			19.09		
10	PI2 BPSK	25	0			19.11	20.5	0.0
10	PI2 BPSK	25	14			19.14	20.5	0.0
10	PI2 BPSK	25	27			19.13	20.5	0.0
10	PI2 BPSK	50	0			19.09		
10	QPSK	1	1			19.20		
10	QPSK	1	26			19.19	20.5	0.0
10	QPSK	1	50			19.17		
10	QPSK	25	0			19.11	20.5	0.0
10	QPSK	25	14			19.15	20.5	0.0
10	QPSK	25	27			19.07	20.5	0.0
10	QPSK	50	0			19.15		
10	16QAM	1	1			19.11	20.5	0.0
10	64QAM	1	1			18.92	20.5	0.0
10	256QAM	1	1			18.78	19.0	1.5
Channel								
Frequency (MHz)				461000	46200	46200	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	19.09	19.01	19.08	20.5	0.0





n30_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				46200						
Frequency (MHz)				2310						
10	PI2 BPSK	1	1	21.96						
10	PI2 BPSK	1	26	21.95			23.0	0.0		
10	PI2 BPSK	1	50	21.92						
10	PI2 BPSK	25	0	21.44			22.5	0.5		
10	PI2 BPSK	25	14	21.96			23.0	0.0		
10	PI2 BPSK	25	27	21.42			22.5	0.5		
10	PI2 BPSK	50	0	21.44						
10	QPSK	1	1	22.00						
10	QPSK	1	26	21.96			23.0	0.0		
10	QPSK	1	50	21.97						
10	QPSK	25	0	20.88			22.0	1.0		
10	QPSK	25	14	21.97			23.0	0.0		
10	QPSK	25	27	20.88			22.0	1.0		
10	QPSK	50	0	20.93						
10	16QAM	1	1	20.85			22.0	1.0		
10	64QAM	1	1	19.30			20.5	2.5		
10	256QAM	1	1	17.37			18.5	4.5		
Channel				46300	46300		Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2315	2315					
5	QPSK	1	1	21.94	21.89	21.89	23.0	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				34600	34900	35200				
Frequency (MHz)				1730	1745	1760				
40	PI2 BPSK	1	1	19.41	19.60	19.45				
40	PI2 BPSK	1	108	19.67	19.76	19.65	20.5	0.0		
40	PI2 BPSK	1	214	19.48	19.55	19.45				
40	PI2 BPSK	108	0	19.67	19.67	19.50	20.5	0.0		
40	PI2 BPSK	108	54	19.50	19.66	19.55	20.5	0.0		
40	PI2 BPSK	108	108	19.58	19.69	19.51	20.5	0.0		
40	PI2 BPSK	216	0	19.67	19.72	19.65				
40	QPSK	1	1	19.70	19.80	19.76				
40	QPSK	1	108	19.55	19.76	19.60	20.5	0.0		
40	QPSK	1	214	19.44	19.48	19.38				
40	QPSK	108	0	19.53	19.55	19.54	20.5	0.0		
40	QPSK	108	54	19.64	19.78	19.71	20.5	0.0		
40	QPSK	108	108	19.59	19.69	19.64				
40	QPSK	216	0	19.63	19.75	19.58	20.5	0.0		
40	16QAM	1	1	19.19	19.25	19.16	20.5	0.0		
40	64QAM	1	1	19.44	19.55	19.46	20.5	0.0		
40	256QAM	1	1	18.61	18.78	18.69	19.5	1.0		
Channel				34600	34900	35200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	19.23	19.44	19.39	20.5	0.0		
Channel				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765				
25	QPSK	1	1	19.21	19.18	19.23	20.5	0.0		
Channel				34450	34900	35350	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765				
20	QPSK	1	1	19.09	19.16	19.20	20.5	0.0		
Channel				34400	34900	35400	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1720	1745	1770				
15	QPSK	1	1	19.09	19.49	19.33	20.5	0.0		
Channel				34350	34900	35450	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	18.06	19.16	19.54	20.5	0.0		
Channel				34300	34900	35500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
5	QPSK	1	1	19.31	19.32	19.19	20.5	0.0		

n66_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				34600	34900	35200				
Frequency (MHz)				1730	1745	1760				
40	PI2 BPSK	1	1	21.07	21.38	21.38				
40	PI2 BPSK	1	108	21.17	21.33	21.25	22.5	0.0		
40	PI2 BPSK	1	214	21.23	21.37	21.19				
40	PI2 BPSK	108	0	21.22	21.36	21.28	22.5	0.0		
40	PI2 BPSK	108	54	21.33	21.41	21.31	22.5	0.0		
40	PI2 BPSK	108	108	21.29	21.45	21.34	22.5	0.0		
40	PI2 BPSK	216	0	21.26	21.31	21.20				
40	QPSK	1	1	21.43	21.46	21.42				
40	QPSK	1	108	21.38	21.40	21.11	22.5	0.0		
40	QPSK	1	214	21.07	21.28	21.07				
40	QPSK	108	0	21.34	21.44	21.22	22.5	0.0		
40	QPSK	108	54	21.35	21.46	21.37	22.5	0.0		
40	QPSK	108	108	21.37	21.44	21.28				
40	QPSK	216	0	21.23	21.41	21.28				
40	16QAM	1	1	21.40	21.47	21.39	22.5	0.0		
40	64QAM	1	1	21.27	21.45	21.27	21.5	1.0		
40	256QAM	1	1	18.81	18.97	18.92	19.5	3.0		
Channel				34500	34900	35200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765				
30	QPSK	1	1	21.23	21.45	21.34	22.5	0.0		
Channel				34500	34900	35300	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765				
25	QPSK	1	1	21.28	21.26	21.38	22.5	0.0		
Channel				34450	34900	35350	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1725	1745	1765				
20	QPSK	1	1	21.09	21.28	21.18	22.5	0.0		
Channel				34400	34900	35400	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1720	1745	1770				
15	QPSK	1	1	21.31	21.32	21.19	22.5	0.0		
Channel				34350	34900	35450	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
10	QPSK	1	1	21.02	21.22	21.00	22.5	0.0		
Channel				34300	34900	35500	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1715	1745	1775				
5	QPSK	1	1	21.16	21.43	21.38	22.5	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				345000				
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1	19.53				
15	PI2 BPSK	1	40	19.58			20.5	0.0
15	PI2 BPSK	1	77	19.59				
15	PI2 BPSK	36	0	19.80			20.5	0.0
15	PI2 BPSK	36	22	19.56			20.5	0.0
15	PI2 BPSK	36	43	19.51				
15	PI2 BPSK	75	0	19.55			20.5	0.0
15	QPSK	1	1	19.62				
15	QPSK	1	40	19.56			20.5	0.0
15	QPSK	1	77	19.56				
15	QPSK	36	0	19.59			20.5	0.0
15	QPSK	36	22	19.50			20.5	0.0
15	QPSK	36	43	19.50				
15	QPSK	75	0	19.53			20.5	0.0
15	16QAM	1	1	19.55			20.5	0.0
15	64QAM	1	1	19.34			20.5	0.0
15	256QAM	1	1	18.82			19.5	1.0
Channel				340000	345000	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	19.51	19.46	19.50	20.5	0.0
Channel				339500	345000	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	19.61	19.42	19.50	20.5	0.0

n70_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				345000				
Frequency (MHz)				1702.5				
15	PI2 BPSK	1	1	21.89				
15	PI2 BPSK	1	40	21.88			23.5	0.0
15	PI2 BPSK	1	77	21.72				
15	PI2 BPSK	36	0	21.76			23.5	0.0
15	PI2 BPSK	36	22	21.72			23.5	0.0
15	PI2 BPSK	36	43	21.80				
15	PI2 BPSK	75	0	21.85			23.5	0.0
15	QPSK	1	1	21.75				
15	QPSK	1	40	21.91			23.5	0.0
15	QPSK	1	77	21.84				
15	QPSK	36	0	21.28			23.0	0.5
15	QPSK	36	22	21.89			23.5	0.0
15	QPSK	36	43	21.30				
15	QPSK	75	0	21.41			23.0	0.5
15	16QAM	1	1	21.26			23.0	0.5
15	64QAM	1	1	20.18			21.5	2.0
15	256QAM	1	1	17.84			19.5	4.0
Channel				340000	345000	341000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1700	1702.5	1705		
10	QPSK	1	1	21.89	21.85	21.80	23.5	0.0
Channel				339500	345000	341500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1697.5	1702.5	1707.5		
5	QPSK	1	1	21.87	21.85	21.87	23.5	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				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI/2 BPSK	1	1	22.72	22.75	22.79			
20	PI/2 BPSK	1	53	22.71	22.65	22.75	24.0	0.0	
20	PI/2 BPSK	1	104	22.73	22.80	22.80			
20	PI/2 BPSK	50	0	21.87	22.28	22.15	23.5	0.5	
20	PI/2 BPSK	50	26	22.72	22.74	22.78	24.0	0.0	
20	PI/2 BPSK	50	56	21.78	22.14	22.42			
20	PI/2 BPSK	100	0	21.76	22.22	22.27	23.5	0.5	
20	QPSK	1	1	22.76	22.84	22.76			
20	QPSK	1	53	22.66	22.68	22.65	24.0	0.0	
20	QPSK	1	104	22.71	22.79	22.74			
20	QPSK	50	0	21.65	21.76	21.73	23.0	1.0	
20	QPSK	50	26	22.74	22.81	22.74	24.0	0.0	
20	QPSK	50	56	21.57	21.66	21.68			
20	QPSK	100	0	21.69	21.77	21.76	23.0	1.0	
20	16QAM	1	1	21.60	21.65	21.67	23.0	1.0	
20	64QAM	1	1	20.29	20.35	20.38	21.5	2.5	
20	256QAM	1	1	17.90	17.95	17.98	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.74	22.69	22.66	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.64	22.73	22.59	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.72	22.76	22.73	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				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI/2 BPSK	1	1	22.76	22.83	22.79			
20	PI/2 BPSK	1	53	22.69	22.81	22.81	24.0	0.0	
20	PI/2 BPSK	1	104	22.69	22.74	22.72			
20	PI/2 BPSK	50	0	22.37	22.35	22.29	23.5	0.5	
20	PI/2 BPSK	50	26	22.70	22.75	22.73	24.0	0.0	
20	PI/2 BPSK	50	56	22.19	22.28	22.16			
20	PI/2 BPSK	100	0	22.34	22.37	22.25	23.5	0.5	
20	QPSK	1	1	22.80	22.84	22.79			
20	QPSK	1	53	22.67	22.76	22.73	24.0	0.0	
20	QPSK	1	104	22.78	22.82	22.78			
20	QPSK	50	0	21.76	21.78	21.74	23.0	1.0	
20	QPSK	50	26	22.76	22.80	22.77	24.0	0.0	
20	QPSK	50	56	21.72	21.71	21.65			
20	QPSK	100	0	21.67	21.76	21.69	23.0	1.0	
20	16QAM	1	1	21.65	21.75	21.77	23.0	1.0	
20	64QAM	1	1	19.98	19.98	19.88	21.5	2.5	
20	256QAM	1	1	18.52	18.53	18.53	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	22.78	22.76	22.80	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	22.67	22.68	22.71	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.71	22.82	22.67	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)								
518004 519000 519996								
40	Pi/2 BPSK	1	1	18.32	18.35	18.08		
40	Pi/2 BPSK	1	53	18.06	17.99	18.08	19.5	0.0
40	Pi/2 BPSK	1	104	17.99	18.01	18.01		
40	Pi/2 BPSK	50	0	18.03	18.27	18.12	19.5	0.0
40	Pi/2 BPSK	50	28	18.11	18.14	18.12	19.5	0.0
40	Pi/2 BPSK	50	56	18.03	18.00	18.01		
40	Pi/2 BPSK	100	0	17.88	18.08	17.78	19.5	0.0
40	QPSK	1	1	18.38	18.44	18.32		
40	QPSK	1	53	18.03	18.04	18.17	19.5	0.0
40	QPSK	1	104	17.98	18.04	18.14		
40	QPSK	50	0	17.98	18.21	18.05		
40	QPSK	50	28	18.36	18.42	18.29	19.5	0.0
40	QPSK	50	56	17.97	17.87	17.89		
40	QPSK	100	0	17.90	18.40	17.80	19.5	0.0
40	16QAM	1	1	18.20	18.25	17.90	19.5	0.0
40	64QAM	1	1	17.87	18.04	17.64	19.5	0.0
40	256QAM	1	1	17.86	18.00	17.67	19.5	0.0
Channel								
Frequency (MHz)								
2590.02 2595 2599.98								
30	QPSK	1	1	18.41	18.33	18.18	19.5	0.0
Channel								
Frequency (MHz)								
515004 519000 521496								
25	QPSK	1	1	2582.52	2595	2607.48	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
516000 519000 522000								
20	QPSK	1	1	2580	2595	2610	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
515002 519000 522498								
15	QPSK	1	1	2577.51	2595	2612.49	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
515004 519000 522996								
10	QPSK	1	1	2572.02	2595	2614.98	Tune-up limit (dBm)	MPR (dB)

### n41\_Ant 0(FCC)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
508202 518598 528800								
100	Pi/2 BPSK	1	1	17.16	17.48	17.11		
100	Pi/2 BPSK	1	137	17.38	17.49	17.25	19.0	0.0
100	Pi/2 BPSK	1	271	17.25	17.47	17.38		
100	Pi/2 BPSK	135	0	17.26	17.48	17.33	19.0	0.0
100	Pi/2 BPSK	135	69	17.34	17.53	17.42	19.0	0.0
100	Pi/2 BPSK	135	138	17.26	17.38	17.16		
100	Pi/2 BPSK	270	0	17.29	17.47	17.28	19.0	0.0
100	QPSK	1	1	17.51	17.57	17.05		
100	QPSK	1	137	17.36	17.50	17.37	19.0	0.0
100	QPSK	1	271	17.25	17.52	17.31		
100	QPSK	135	0	17.23	17.48	17.33		
100	QPSK	135	69	17.42	17.55	17.43	19.0	0.0
100	QPSK	135	138	17.36	17.37	17.26		
100	QPSK	270	0	17.33	17.52	17.40	19.0	0.0
100	16QAM	1	1	17.33	17.51	17.40	19.0	0.0
100	64QAM	1	1	17.28	17.48	17.35	19.0	0.0
100	256QAM	1	1	17.04	17.25	17.13	19.0	0.0
Channel								
Frequency (MHz)								
508200 518598 528896								
90	QPSK	1	1	2581	2592.99	2604.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
507204 518598 529898								
80	QPSK	1	1	2586.02	2592.99	2604.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
506200 518598 531000								
80	QPSK	1	1	2521.01	2592.99	2605	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70 518598 531998								
70	QPSK	1	1	2524	2593	2605	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60 508200 518598 531998								
60	QPSK	1	1	2526	2592.99	2609.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
504204 518598 532998								
50	QPSK	1	1	2524	2593	2604.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40 508202 518598 534000								
40	QPSK	1	1	2518.01	2592.99	2607	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30 502200 518598 534996								
30	QPSK	1	1	2511	2592.99	2604.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20 500700 518598 536496								
20	QPSK	1	1	2508.02	2592.99	2609.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15 2503.5 2592.99 2602.48								
15	QPSK	1	1	2503.5	2592.99	2602.48	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10 500700 518598 537000								
10	QPSK	1	1	2501.01	2592.99	2605	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
500700 518598 536496								
10	QPSK	1	1	2501.01	2592.99	2605	Tune-up limit (dBm)	MPR (dB)

### n41(HPUe)\_Ant 0(FCC)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
508202 518598 528800								
100	Pi/2 BPSK	1	1	20.43	20.54	20.54		
100	Pi/2 BPSK	1	137	20.31	20.48	20.31	22.0	0.0
100	Pi/2 BPSK	1	271	20.25	20.42	20.33		
100	Pi/2 BPSK	135	0	20.32	20.48	20.37	22.0	0.0
100	Pi/2 BPSK	135	69	20.35	20.44	20.39	22.0	0.0
100	Pi/2 BPSK	135	138	20.29	20.41	20.30		
100	Pi/2 BPSK	270	0	20.25	20.38	20.38	22.0	0.0
100	QPSK	1	1	20.51	20.55	20.07		
100	QPSK	1	137	20.45	20.53	20.26	22.0	0.0
100	QPSK	1	271	20.24	20.42	20.19		
100	QPSK	135	0	20.39	20.49	20.37		
100	QPSK	135	69	20.48	20.53	20.41	22.0	0.0
100	QPSK	135	138	20.36	20.37	20.17		
100	QPSK	270	0	20.29	20.51	20.36	22.0	0.0
100	16QAM	1	1	20.31	20.42	20.33	22.0	0.0
100	64QAM	1	1	20.31	20.46	20.29	22.0	0.0
100	256QAM	1	1	20.13	20.29	20.19	22.0	0.0
Channel								
Frequency (MHz)								
508200 518598 528896								
90	QPSK	1	1	2581	2592.99	2604.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
507204 518598 529898								
80	QPSK	1	1	2586.02	2592.99	2604.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
506200 518598 531000								
80	QPSK	1	1	2521.01	2592.99	2605	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70 518598 531998								
70	QPSK	1	1	2524	2593	2605	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60 508200 518598 531998								
60	QPSK	1	1	2526	2592.99	2609.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
504204 518598 532998								
50	QPSK	1	1	2524	2593	2604.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40 508202 518598 534000								
40	QPSK	1	1	2518.01	2592.99	2607	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30 502200 518598 534996								
30	QPSK	1	1	2511	2592.99	2604.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20 500700 518598 536496								
20	QPSK	1	1	2508.02	2592.99	2609.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
15 2503.5 2592.99 2602.48								
15	QPSK	1	1	2503.5	2592.99	2602.48	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
10 500700 518598 537000								
10	QPSK	1	1	2501.01	2592.99	2605	Tune-up limit (dBm)	MPR (dB)



n41_Ant 1(FCC)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)									
100	Pi2 BPSK	1	1	18.45	18.33	18.29			
100	Pi2 BPSK	1	137	18.28	18.16	18.23	19.5	0.0	
100	Pi2 BPSK	1	271	18.22	18.15	18.12			
100	Pi2 BPSK	135	0	18.18	18.39	18.25	19.5	0.0	
100	Pi2 BPSK	135	69	18.27	18.25	18.29	19.5	0.0	
100	Pi2 BPSK	135	138	18.13	18.12	18.13	19.5	0.0	
100	Pi2 BPSK	270	0	17.99	18.19	17.99			
100	QPSK	1	1	18.45	18.35	18.35			
100	QPSK	1	137	18.18	18.19	18.30	19.5	0.0	
100	QPSK	1	271	18.14	18.20	18.24			
100	QPSK	135	0	18.21	18.31	18.20			
100	QPSK	135	69	18.40	18.53	18.34	19.5	0.0	
100	QPSK	135	138	18.10	18.06	18.04			
100	QPSK	270	0	18.06	18.30	18.01	19.5	0.0	
100	16QAM	1	1	18.43	18.39	18.21	19.5	0.0	
100	64QAM	1	1	18.08	18.14	17.88	19.5	0.0	
100	256QAM	1	1	17.91	18.10	17.84	19.5	0.0	
Channel				508200	518598	528996			
Frequency (MHz)									
90	QPSK	1	1	18.52	18.41	18.40	19.5	0.0	
Channel				507204	518598	529988			
Frequency (MHz)									
80	QPSK	1	1	18.29	18.40	18.43	19.5	0.0	
Channel				506202	518598	531000			
Frequency (MHz)									
70	QPSK	1	1	18.57	18.52	18.37	19.5	0.0	
Channel				505200	518598	531996			
Frequency (MHz)									
60	QPSK	1	1	18.34	18.49	18.42	19.5	0.0	
Channel				504204	518598	532988			
Frequency (MHz)									
50	QPSK	1	1	18.55	18.24	18.40	19.5	0.0	
Channel				503202	518598	534000			
Frequency (MHz)									
40	QPSK	1	1	18.16	18.45	18.22	19.5	0.0	
Channel				502200	518598	534996			
Frequency (MHz)									
30	QPSK	1	1	20.11	20.02	20.04	19.5	0.0	
Channel				501204	518598	535988			
Frequency (MHz)									
20	QPSK	1	1	18.28	18.50	18.37	19.5	0.0	
Channel				500700	518598	536496			
Frequency (MHz)									
15	QPSK	1	1	18.29	18.37	18.33	19.5	0.0	
Channel				500302	518598	537000			
Frequency (MHz)									
10	QPSK	1	1	18.52	18.37	18.28	19.5	0.0	

n41(HPUE)_Ant 1(FCC)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)									
100	Pi2 BPSK	1	1	21.23	21.19	21.53			
100	Pi2 BPSK	1	137	21.42	21.40	21.48	22.5	0.0	
100	Pi2 BPSK	1	271	21.42	21.41	21.47			
100	Pi2 BPSK	135	0	21.53	21.41	21.49	22.5	0.0	
100	Pi2 BPSK	135	69	21.54	21.45	21.51	22.5	0.0	
100	Pi2 BPSK	135	138	21.40	21.43	21.42	22.5	0.0	
100	Pi2 BPSK	270	0	21.53	21.48	21.58			
100	QPSK	1	1	21.44	21.81	21.86			
100	QPSK	1	137	21.37	21.47	21.38	22.5	0.0	
100	QPSK	1	271	21.16	21.13	21.19			
100	QPSK	135	0	21.33	21.16	21.27			
100	QPSK	135	69	21.44	21.59	21.39	22.5	0.0	
100	QPSK	135	138	21.18	21.18	21.20			
100	QPSK	270	0	21.39	21.55	21.44	22.5	0.0	
100	16QAM	1	1	21.17	21.18	21.15	22.5	0.0	
100	64QAM	1	1	21.06	21.16	21.14	22.5	0.0	
100	256QAM	1	1	21.30	21.37	21.38	22.5	0.0	
Channel				508200	518598	528996			
Frequency (MHz)									
90	QPSK	1	1	21.17	21.43	21.42	22.5	0.0	
Channel				507204	518598	529988			
Frequency (MHz)									
80	QPSK	1	1	21.52	21.44	21.18	22.5	0.0	
Channel				506202	518598	531000			
Frequency (MHz)									
70	QPSK	1	1	21.41	21.34	21.18	22.5	0.0	
Channel				505200	518598	531996			
Frequency (MHz)									
60	QPSK	1	1	21.35	21.41	21.38	22.5	0.0	
Channel				504204	518598	532988			
Frequency (MHz)									
50	QPSK	1	1	21.16	21.40	21.30	22.5	0.0	
Channel				503202	518598	534000			
Frequency (MHz)									
40	QPSK	1	1	21.38	21.45	21.24	22.5	0.0	
Channel				502200	518598	534996			
Frequency (MHz)									
30	QPSK	1	1	23.11	22.92	22.97	22.5	0.0	
Channel				501204	518598	535988			
Frequency (MHz)									
20	QPSK	1	1	21.19	21.51	21.44	22.5	0.0	
Channel				500700	518598	536496			
Frequency (MHz)									
15	QPSK	1	1	21.18	21.40	21.50	22.5	0.0	
Channel				500302	518598	537000			
Frequency (MHz)									
10	QPSK	1	1	21.52	21.35	21.20	22.5	0.0	

n41_Ant 2(FCC)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509202	518598	528000			
Frequency (MHz)									
100	Pi2 BPSK	1	1	20.42	20.44	20.22			
100	Pi2 BPSK	1	137	20.32	20.37	20.45	22.0	0.0	
100	Pi2 BPSK	1	271	20.38	20.54	20.32			
100	Pi2 BPSK	135	0	20.30	20.45	20.26	22.0	0.0	
100	Pi2 BPSK	135	69	20.27	20.49	20.32	22.0	0.0	
100	Pi2 BPSK	135	138	20.36	20.54	20.35	22.0	0.0	
100	Pi2 BPSK	270	0	20.23	20.42	20.27			
100	QPSK	1	1	20.32	20.86	20.51			
100	QPSK	1	137	20.43	20.53	20.45	22.0	0.0	
100	QPSK	1	271	20.33	20.53	20.30			
100	QPSK	135	0	20.29	20.41	20.27			
100	QPSK	135	69	20.51	20.64	20.43	22.0	0.0	
100	QPSK	135	138	20.28	20.46	20.24			
100	QPSK	270	0	20.51	20.52	20.49	22.0	0.0	
100	16QAM	1	1	20.14	20.33	20.13	22.0	0.0	
100	64QAM	1	1	20.06	20.23	20.05	22.0	0.0	
100	256QAM	1	1	20.40	20.39	20.41	22.0	0.0	
Channel				508200	518598	528996			
Frequency (MHz)									
90	QPSK	1	1	20.40	20.42	20.51	22.0	0.0	
Channel				507204	518598	529988			
Frequency (MHz)									
80	QPSK	1	1	20.46	20.43	20.31	22.0	0.0	
Channel				506202	518598	531000			
Frequency (MHz)									
70	QPSK	1	1	20.59	20.44	20.58	22.0	0.0	
Channel				505200	518598	531996			
Frequency (MHz)									
60	QPSK	1	1	20.51	20.64	20.50	22.0	0.0	
Channel				504204	518598	532988			
Frequency (MHz)									
50	QPSK	1	1	20.63	20.41	20.58	22.0	0.0	
Channel				503202	518598	534000			
Frequency (MHz)									
40	QPSK	1	1	20.34	20.54	20.33	22.0	0.0	
Channel				502200	518598	534996			
Frequency (MHz)									
30	QPSK	1	1	23.11	22.92	22.97	22.0	0.0	
Channel				501204	518598	535988			
Frequency (MHz)									
20	QPSK	1	1	20.52	20.46	20.31	22.0	0.0	
Channel				500700	518598	536496			
Frequency (MHz)									
15	QPSK	1	1	20.50	20.44	20.49	22.0	0.0	
Channel				500302	518598	537000			
Frequency (MHz)									
10	QPSK	1	1	20.35	20.56	20.38	22.0	0.0	

**n41(HPUe)\_Ant 2(FCC)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				529202	518598	528000		
100	PI2 BPSK	1	1	23.40	23.55	23.31		
100	PI2 BPSK	1	137	23.52	23.62	23.38	25.0	0.0
100	PI2 BPSK	1	271	23.48	23.58	23.41		
100	PI2 BPSK	135	0	23.39	23.57	23.35	25.0	0.0
100	PI2 BPSK	135	69	23.44	23.61	23.48	25.0	0.0
100	PI2 BPSK	135	138	23.38	23.54	23.41	25.0	0.0
100	PI2 BPSK	270	0	23.35	23.49	23.36		
100	QPSK	1	1	23.57	23.83	23.51		
100	QPSK	1	137	23.49	23.58	23.34	25.0	0.0
100	QPSK	1	271	23.38	23.61	23.38		
100	QPSK	135	0	23.37	23.55	23.32		
100	QPSK	135	69	23.55	23.61	23.47	25.0	0.0
100	QPSK	135	138	23.29	23.45	23.23		
100	QPSK	270	0	23.49	23.59	23.38	25.0	0.0
100	16QAM	1	1	23.31	23.53	23.38	25.0	0.0
100	64QAM	1	1	23.19	23.42	23.32	24.5	0.5
100	256QAM	1	1	21.01	21.22	20.99	22.5	2.5
Channel								
Frequency (MHz)				528200	518598	528996	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	23.49	23.48	23.36	25.0	0.0
Channel								
Frequency (MHz)				527204	518598	529998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.39	23.56	23.58	25.0	0.0
Channel								
Frequency (MHz)				526202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.45	23.45	23.59	25.0	0.0
Channel								
Frequency (MHz)				525200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	23.39	23.62	23.46	25.0	0.0
Channel								
Frequency (MHz)				524204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.52	23.40	23.37	25.0	0.0
Channel								
Frequency (MHz)				523202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.37	23.44	23.43	25.0	0.0
Channel								
Frequency (MHz)				522200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.55	23.50	23.39	25.0	0.0
Channel								
Frequency (MHz)				521204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.50	23.44	23.23	25.0	0.0
Channel								
Frequency (MHz)				520700	518598	536496	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.32	23.48	23.39	25.0	0.0
Channel								
Frequency (MHz)				520202	518598	537000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.51	23.45	23.28	25.0	0.0

**n41\_Ant 4(FCC)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				529202	518598	528000		
100	PI2 BPSK	1	1	20.25	20.32	20.22		
100	PI2 BPSK	1	137	20.22	20.20	20.16	21.0	0.0
100	PI2 BPSK	1	271	20.14	20.27	20.04		
100	PI2 BPSK	135	0	20.06	20.23	20.10	21.0	0.0
100	PI2 BPSK	135	69	20.22	20.29	20.20	21.0	0.0
100	PI2 BPSK	135	138	20.11	20.14	20.14	21.0	0.0
100	PI2 BPSK	270	0	20.18	20.20	20.16		
100	QPSK	1	1	20.28	20.35	20.24		
100	QPSK	1	137	20.15	20.19	20.11	21.0	0.0
100	QPSK	1	271	20.20	20.28	20.15		
100	QPSK	135	0	20.20	20.22	20.07		
100	QPSK	135	69	20.26	20.38	20.21	21.0	0.0
100	QPSK	135	138	20.13	20.17	20.12		
100	QPSK	270	0	20.22	20.34	20.18	21.0	0.0
100	16QAM	1	1	20.14	20.30	20.17	21.0	0.0
100	64QAM	1	1	20.21	20.24	20.05	21.0	0.0
100	256QAM	1	1	20.07	20.23	20.09	21.0	0.0
Channel								
Frequency (MHz)				528200	518598	528996	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	19.82	20.19	20.23	21.0	0.0
Channel								
Frequency (MHz)				527204	518598	529998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	19.84	20.23	20.26	21.0	0.0
Channel								
Frequency (MHz)				526202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	19.94	19.90	20.01	21.0	0.0
Channel								
Frequency (MHz)				525200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	19.89	19.97	20.19	21.0	0.0
Channel								
Frequency (MHz)				524204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	19.94	20.15	20.01	21.0	0.0
Channel								
Frequency (MHz)				523202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	19.99	20.18	20.10	21.0	0.0
Channel								
Frequency (MHz)				522200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	20.11	20.02	20.14	21.0	0.0
Channel								
Frequency (MHz)				521204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	19.95	20.08	20.25	21.0	0.0
Channel								
Frequency (MHz)				520700	518598	536496	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	19.85	20.07	20.10	21.0	0.0
Channel								
Frequency (MHz)				520202	518598	537000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.93	19.97	20.17	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)				529202	518598	528000		
100	PI2 BPSK	1	1	23.14	23.38	23.21		
100	PI2 BPSK	1	137	23.04	22.87	23.00	24.0	0.0
100	PI2 BPSK	1	271	23.07	23.21	23.14		
100	PI2 BPSK	135	0	22.89	23.02	22.95	24.0	0.0
100	PI2 BPSK	135	69	23.10	23.29	23.16	24.0	0.0
100	PI2 BPSK	135	138	23.06	23.16	23.03	24.0	0.0
100	PI2 BPSK	270	0	23.00	23.09	23.01		
100	QPSK	1	1	23.39	23.40	23.24		
100	QPSK	1	137	23.08	22.96	23.20	24.0	0.0
100	QPSK	1	271	23.11	23.13	23.16		
100	QPSK	135	0	23.00	22.83	23.06		
100	QPSK	135	69	23.17	23.37	23.21	24.0	0.0
100	QPSK	135	138	22.94	23.00	23.02		
100	QPSK	270	0	23.15	23.27	23.19	24.0	0.0
100	16QAM	1	1	22.82	22.96	22.88	24.0	0.0
100	64QAM	1	1	21.05	21.21	21.19	22.5	1.5
100	256QAM	1	1	19.87	20.24	20.18	21.0	3.0
Channel								
Frequency (MHz)				528200	518598	528996	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	23.27	23.25	23.18	24.0	0.0
Channel								
Frequency (MHz)				527204	518598	529998	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	23.33	23.36	23.13	24.0	0.0
Channel								
Frequency (MHz)				526202	518598	531000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	23.11	23.02	23.03	24.0	0.0
Channel								
Frequency (MHz)				525200	518598	531996	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	23.30	23.28	23.03	24.0	0.0
Channel								
Frequency (MHz)				524204	518598	532998	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	23.31	23.10	23.04	24.0	0.0
Channel								
Frequency (MHz)				523202	518598	534000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	23.30	23.19	23.17	24.0	0.0
Channel								
Frequency (MHz)				522200	518598	534996	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	23.11	23.02	23.04	24.0	0.0
Channel								
Frequency (MHz)				521204	518598	535998	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	23.30	23.22	22.92	24.0	0.0
Channel								
Frequency (MHz)				520700	518598	536496	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.16	23.24	23.17	24.0	0.0
Channel								
Frequency (MHz)				520202	518598	537000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.29	23.19	23.10	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				638000	641666	645332		
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	17.92	18.12	17.84		
40	PI2 BPSK	1	53	17.85	18.13	17.91	19.0	0.0
40	PI2 BPSK	1	104	18.03	18.18	17.98		
40	PI2 BPSK	50	0	17.95	18.15	18.04	19.0	0.0
40	PI2 BPSK	50	28	17.90	18.12	17.99	19.0	0.0
40	PI2 BPSK	50	56	17.88	18.17	18.07	19.0	0.0
40	PI2 BPSK	100	0	17.87	18.13	17.96		
40	QPSK	1	1	18.05	18.23	18.03		
40	QPSK	1	53	17.83	18.09	17.97	19.0	0.0
40	QPSK	1	104	17.89	18.15	18.01		
40	QPSK	50	0	17.93	18.18	17.93		
40	QPSK	50	28	18.01	18.21	17.95	19.0	0.0
40	QPSK	50	56	17.88	18.06	17.91		
40	QPSK	100	0	17.85	18.20	17.92	19.0	0.0
40	16QAM	1	1	17.75	17.96	17.74	19.0	0.0
40	64QAM	1	1	17.99	18.19	18.02	19.0	0.0
40	256QAM	1	1	17.61	17.83	17.62	19.0	0.0
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3563.02	3624.99	3684.99		
30	QPSK	1	1	18.12	18.13	17.85	19.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	18.02	18.21	17.76	19.0	0.0
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.52	3624.99	3692.49		
15	QPSK	1	1	17.99	18.02	17.94	19.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	18.12	18.12	17.88	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				638000	641666	645332		
Frequency (MHz)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	18.81	17.02	17.00		
40	PI2 BPSK	1	53	18.86	16.96	16.72	18.0	0.0
40	PI2 BPSK	1	104	18.85	16.95	16.80		
40	PI2 BPSK	50	0	18.90	17.02	16.90	18.0	0.0
40	PI2 BPSK	50	28	18.82	17.01	16.91	18.0	0.0
40	PI2 BPSK	50	56	18.75	16.91	16.75	18.0	0.0
40	PI2 BPSK	100	0	18.81	16.83	16.78		
40	QPSK	1	1	17.02	17.05	16.93		
40	QPSK	1	53	18.65	16.84	16.73	18.0	0.0
40	QPSK	1	104	18.77	16.90	16.78		
40	QPSK	50	0	18.82	16.92	16.80		
40	QPSK	50	28	18.80	17.03	16.88	18.0	0.0
40	QPSK	50	56	18.68	16.84	16.71		
40	QPSK	100	0	18.83	16.86	16.84	18.0	0.0
40	16QAM	1	1	16.75	16.83	16.71	18.0	0.0
40	64QAM	1	1	16.87	16.99	16.82	18.0	0.0
40	256QAM	1	1	16.82	16.72	16.55	18.0	0.0
Channel				637668	641666	645666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3563.02	3624.99	3684.99		
30	QPSK	1	1	18.91	17.00	16.74	18.0	0.0
Channel				637334	641666	646000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3560.01	3624.99	3690		
20	QPSK	1	1	16.94	17.03	16.98	18.0	0.0
Channel				637168	641666	646166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.52	3624.99	3692.49		
15	QPSK	1	1	18.92	16.91	16.76	18.0	0.0
Channel				637000	641666	646332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3555	3624.99	3694.98		
10	QPSK	1	1	18.89	16.83	16.97	18.0	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				633000	633332	633998		
Frequency (MHz)				3493.98				
100	PI2 BPSK	1	1		18.97			
100	PI2 BPSK	1	137		18.18		17.0	0.0
100	PI2 BPSK	1	271		18.21			
100	PI2 BPSK	135	0		18.19		17.0	0.0
100	PI2 BPSK	135	69		18.29		17.0	0.0
100	PI2 BPSK	135	138		18.03		17.0	0.0
100	PI2 BPSK	270	0		18.05			
100	QPSK	1	1		18.30			
100	QPSK	1	137		18.28		17.0	0.0
100	QPSK	1	271		18.01			
100	QPSK	135	0		18.02			
100	QPSK	135	69		18.28		17.0	0.0
100	QPSK	135	138		15.97			
100	QPSK	270	0		18.27			
100	16QAM	1	1		18.00		17.0	0.0
100	64QAM	1	1		16.15		17.0	0.0
100	256QAM	1	1		15.82		17.0	0.0
Channel				633000	633332	633998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3493.98	3499.98	3504.99		
80	QPSK	1	1	16.22	18.10	18.09	17.0	0.0
Channel				632568	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3499.98	3510		
80	QPSK	1	1	15.98	18.06	18.05	17.0	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98		
70	QPSK	1	1	16.29	18.13	18.11	17.0	0.0
Channel				632000	633332	634998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	QPSK	1	1	16.16	18.07	18.03	17.0	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3476.02	3499.98	3525		
50	QPSK	1	1	16.28	18.09	18.00	17.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	15.98	15.89	15.97	17.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	QPSK	1	1	16.24	15.90	15.91	17.0	0.0
Channel				630334	633332	635932	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3499.98	3537.48		
25	QPSK	1	1	16.11	15.95	15.92	17.0	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	16.03	16.09	15.90	17.0	0.0
Channel				632500	633332	636166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3499.98	3542.49		
15	QPSK	1	1	16.24	15.87	15.88	17.0	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3499.98	3544.98		
10	PI2 BPSK	1	1	15.98	16.02	15.91	17.0	0.0



### Part27Q\_n77(HPUE)\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
633332								
3499.98								
100	PI2 BPSK	1	1	19.27	19.27	19.27	20.0	0.0
100	PI2 BPSK	1	137	19.16	19.16	19.16	20.0	0.0
100	PI2 BPSK	1	271	19.16	19.16	19.16	20.0	0.0
100	PI2 BPSK	135	0	19.21	19.21	19.21	20.0	0.0
100	PI2 BPSK	135	69	19.12	19.12	19.12	20.0	0.0
100	PI2 BPSK	135	138	19.28	19.28	19.28	20.0	0.0
100	PI2 BPSK	270	0	19.03	19.03	19.03	20.0	0.0
100	QPSK	1	1	19.28	19.28	19.28	20.0	0.0
100	QPSK	1	137	19.24	19.24	19.24	20.0	0.0
100	QPSK	1	271	19.24	19.24	19.24	20.0	0.0
100	QPSK	1	271	19.17	19.17	19.17	20.0	0.0
100	QPSK	135	0	19.05	19.05	19.05	20.0	0.0
100	QPSK	135	69	19.27	19.27	19.27	20.0	0.0
100	QPSK	135	138	19.08	19.08	19.08	20.0	0.0
100	QPSK	270	0	19.25	19.25	19.25	20.0	0.0
100	16QAM	1	1	19.21	19.21	19.21	20.0	0.0
100	64QAM	1	1	19.24	19.24	19.24	20.0	0.0
100	256QAM	1	1	18.88	18.88	18.88	20.0	0.0
Channel								
Frequency (MHz)								
633000								
633332								
633666								
Tune-up limit (dBm)								
MPR (dB)								
90	QPSK	1	1	19.10	19.15	19.27	20.0	0.0
Channel								
Frequency (MHz)								
632968								
633332								
634000								
Tune-up limit (dBm)								
MPR (dB)								
80	QPSK	1	1	19.11	19.16	19.21	20.0	0.0
Channel								
Frequency (MHz)								
632334								
633332								
634332								
Tune-up limit (dBm)								
MPR (dB)								
70	QPSK	1	1	19.10	19.21	19.19	20.0	0.0
Channel								
Frequency (MHz)								
632000								
633332								
634666								
Tune-up limit (dBm)								
MPR (dB)								
60	QPSK	1	1	19.09	19.09	19.13	20.0	0.0
Channel								
Frequency (MHz)								
631668								
633332								
635000								
Tune-up limit (dBm)								
MPR (dB)								
50	QPSK	1	1	19.07	19.09	19.29	20.0	0.0
Channel								
Frequency (MHz)								
631334								
633332								
635332								
Tune-up limit (dBm)								
MPR (dB)								
40	QPSK	1	1	19.02	19.01	19.03	20.0	0.0
Channel								
Frequency (MHz)								
631000								
633332								
635666								
Tune-up limit (dBm)								
MPR (dB)								
30	QPSK	1	1	18.98	18.91	19.29	20.0	0.0
Channel								
Frequency (MHz)								
630334								
633332								
635932								
Tune-up limit (dBm)								
MPR (dB)								
25	QPSK	1	1	18.85	18.90	19.05	20.0	0.0
Channel								
Frequency (MHz)								
630668								
633332								
636000								
Tune-up limit (dBm)								
MPR (dB)								
20	QPSK	1	1	18.91	18.98	19.26	20.0	0.0
Channel								
Frequency (MHz)								
630000								
633332								
636366								
Tune-up limit (dBm)								
MPR (dB)								
15	QPSK	1	1	19.10	19.18	19.00	20.0	0.0
Channel								
Frequency (MHz)								
630334								
633332								
636332								
Tune-up limit (dBm)								
MPR (dB)								
10	PI2 BPSK	1	1	19.04	19.06	19.07	20.0	0.0

### Part27O\_n77\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
650000								
650000								
652000								
100	PI2 BPSK	1	1	15.87	15.93	15.84	17.0	0.0
100	PI2 BPSK	1	137	16.19	16.14	15.96	17.0	0.0
100	PI2 BPSK	1	271	15.94	16.20	16.19	17.0	0.0
100	PI2 BPSK	135	0	16.12	16.19	15.90	17.0	0.0
100	PI2 BPSK	135	69	15.98	16.04	16.08	17.0	0.0
100	PI2 BPSK	135	138	16.00	16.16	16.02	17.0	0.0
100	PI2 BPSK	270	0	16.22	16.23	15.92	17.0	0.0
100	QPSK	1	1	16.17	16.26	16.20	17.0	0.0
100	QPSK	1	137	16.04	16.09	15.74	17.0	0.0
100	QPSK	1	271	16.06	16.24	15.93	17.0	0.0
100	QPSK	135	0	15.82	16.21	16.00	17.0	0.0
100	QPSK	135	69	16.15	16.23	16.17	17.0	0.0
100	QPSK	135	138	16.14	16.17	16.06	17.0	0.0
100	QPSK	270	0	16.06	16.21	16.10	17.0	0.0
100	16QAM	1	1	16.15	16.24	15.87	17.0	0.0
100	64QAM	1	1	15.86	16.22	16.00	17.0	0.0
100	256QAM	1	1	15.80	16.07	16.04	17.0	0.0
Channel								
Frequency (MHz)								
649668								
650000								
652332								
Tune-up limit (dBm)								
MPR (dB)								
90	QPSK	1	1	16.18	15.99	16.10	17.0	0.0
Channel								
Frequency (MHz)								
649334								
650000								
652666								
Tune-up limit (dBm)								
MPR (dB)								
80	QPSK	1	1	15.90	16.12	16.07	17.0	0.0
Channel								
Frequency (MHz)								
649000								
650000								
653000								
Tune-up limit (dBm)								
MPR (dB)								
70	QPSK	1	1	16.11	16.01	16.10	17.0	0.0
Channel								
Frequency (MHz)								
648668								
650000								
653332								
Tune-up limit (dBm)								
MPR (dB)								
60	QPSK	1	1	16.13	15.98	15.95	17.0	0.0
Channel								
Frequency (MHz)								
648334								
650000								
653666								
Tune-up limit (dBm)								
MPR (dB)								
50	QPSK	1	1	16.10	16.03	16.01	17.0	0.0
Channel								
Frequency (MHz)								
648000								
650000								
654000								
Tune-up limit (dBm)								
MPR (dB)								
40	QPSK	1	1	16.04	16.13	16.14	17.0	0.0
Channel								
Frequency (MHz)								
647668								
650000								
654332								
Tune-up limit (dBm)								
MPR (dB)								
30	QPSK	1	1	16.23	15.99	16.22	17.0	0.0
Channel								
Frequency (MHz)								
647300								
650000								
654600								
Tune-up limit (dBm)								
MPR (dB)								
25	QPSK	1	1	16.01	16.17	15.99	17.0	0.0
Channel								
Frequency (MHz)								
647334								
650000								
654666								
Tune-up limit (dBm)								
MPR (dB)								
20	QPSK	1	1	16.15	15.97	16.16	17.0	0.0
Channel								
Frequency (MHz)								
647168								
650000								
654932								
Tune-up limit (dBm)								
MPR (dB)								
15	QPSK	1	1	16.15	16.18	15.95	17.0	0.0
Channel								
Frequency (MHz)								
647000								
650000								
655000								
Tune-up limit (dBm)								
MPR (dB)								
10	PI2 BPSK	1	1	16.15	16.11	15.97	17.0	0.0

### Part27O\_n77(HPUE)\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
650000								
650000								
652000								
100	PI2 BPSK	1	1	18.88	19.09	19.08	20.0	0.0
100	PI2 BPSK	1	137	19.06	19.17	19.12	20.0	0.0
100	PI2 BPSK	1	271	18.92	19.18	19.01	20.0	0.0
100	PI2 BPSK	135	0	18.79	19.08	18.80	20.0	0.0
100	PI2 BPSK	135	69	18.84	19.14	19.05	20.0	0.0
100	PI2 BPSK	135	138	18.81	19.08	18.89	20.0	0.0
100	PI2 BPSK	270	0	18.81	19.15	18.77	20.0	0.0
100	QPSK	1	1	18.78	19.22	19.15	20.0	0.0
100	QPSK	1	137	18.86	19.03	19.04	20.0	0.0
100	QPSK	1	271	19.02	19.17	18.92	20.0	0.0
100	QPSK	135	0	18.97	18.97	18.86	20.0	0.0
100	QPSK	135	69	18.14	19.20	18.12	20.0	0.0
100	QPSK	135	138	18.73	19.15	18.70	20.0	0.0
100	QPSK	270	0	18.79	19.16	19.06	20.0	0.0
100	16QAM	1	1	19.04	18.87	18.99	20.0	0.0
100	64QAM	1	1	18.80	18.81	18.75	20.0	0.0
100	256QAM	1	1	18.86	19.00	18.90	20.0	0.0
Channel								
Frequency (MHz)								
649668								
650000								
652332								
Tune-up limit (dBm)								
MPR (dB)								
90	QPSK	1	1	19.12	19.11	19.21	20.0	0.0
Channel								
Frequency (MHz)								
649334								
650000								
652666								
Tune-up limit (dBm)								
MPR (dB)								
80	QPSK	1	1	19.03	19.03	19.02	20.0	0.0
Channel								
Frequency (MHz)								
649000								
650000								
653000								
Tune-up limit (dBm)								
MPR (dB)								
70	QPSK	1	1	19.11	18.94	19.10	20.0	0.0
Channel								
Frequency (MHz)								
648668								
650000								
653332								
Tune-up limit (dBm)								
MPR (dB)								
60	QPSK	1	1	19.02	19.20	19.01	20.0	0.0
Channel								
Frequency (MHz)								
648334								
650000								
653666								
Tune-up limit (dBm)								
MPR (dB)								
50	QPSK	1	1	19.25	19.01	19.24	20.0	0.0
Channel								
Frequency (MHz)								
648000								
650000								
654000								
Tune-up limit (dBm)								
MPR (dB)								
40	QPSK	1	1	19.12	19.16	18.94	20.0	0.0
Channel								
Frequency (MHz)								
647668								
650000								
654332								
Tune-up limit (dBm)								
MPR (dB)								
30	QPSK	1	1	19.12	19.01	19.18	20.0	0.0
Channel								
Frequency (MHz)								
647300								
650000								
654500								
Tune-up limit (dBm)								
MPR (dB)								
25	QPSK	1	1	19.11	19.16	19.21	20.0	0.0
Channel								
Frequency (MHz)								
647334								
650000								
654666								
Tune-up limit (dBm)								
MPR (dB)								
20	QPSK	1	1	19.20	19.14	19.03	20.0	0.0
Channel								
Frequency (MHz)								
647168								
650000								
654832								
Tune-up limit (dBm)								
MPR (dB)								
15	QPSK	1	1	18.89	19.02	19.16	20.0	0.0
Channel								
Frequency (MHz)								
647000								
650000								
655000								
Tune-up limit (dBm)								
MPR (dB)								
10	PI2 BPSK	1	1	19.21	19.08	18.99	20.0	0.0





### Part27Q\_n78\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				633332	633332	633668		
Frequency (MHz)								
100	PI2 BPSK	1	1	1499.98	15.82	17.0	17.0	0.0
100	PI2 BPSK	1	137	18.03	18.03	18.03	17.0	0.0
100	PI2 BPSK	1	271	18.21	18.21	18.21	17.0	0.0
100	PI2 BPSK	135	0	18.24	18.24	18.24	17.0	0.0
100	PI2 BPSK	135	69	18.17	18.17	18.17	17.0	0.0
100	PI2 BPSK	135	138	18.05	18.05	18.05	17.0	0.0
100	PI2 BPSK	270	0	18.20	18.20	18.20	17.0	0.0
100	QPSK	1	1	18.27	18.27	18.27	17.0	0.0
100	QPSK	1	137	15.93	15.93	15.93	17.0	0.0
100	QPSK	1	271	18.07	18.07	18.07	17.0	0.0
100	QPSK	135	0	18.20	18.20	18.20	17.0	0.0
100	QPSK	135	69	18.25	18.25	18.25	17.0	0.0
100	QPSK	135	138	18.10	18.10	18.10	17.0	0.0
100	QPSK	270	0	18.23	18.23	18.23	17.0	0.0
100	16QAM	1	1	18.25	18.25	18.25	17.0	0.0
100	64QAM	1	1	18.20	18.20	18.20	17.0	0.0
100	256QAM	1	1	18.02	18.02	18.02	17.0	0.0
Channel								
				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
90	QPSK	1	1	3495	3500.01	3505.02	17.0	0.0
Channel								
				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
80	QPSK	1	1	3490.02	3500.01	3510	17.0	0.0
Channel								
				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
70	QPSK	1	1	3485.01	3500.01	3515.01	17.0	0.0
Channel								
				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
60	QPSK	1	1	3480	3500.01	3520.02	17.0	0.0
Channel								
				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
50	QPSK	1	1	3475.02	3500.01	3525	17.0	0.0
Channel								
				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
40	QPSK	1	1	3470.01	3499.98	3529.98	17.0	0.0
Channel								
				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	3465	3499.98	3534.99	17.0	0.0
Channel								
				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
25	QPSK	1	1	3460.02	3499.98	3539.99	17.0	0.0
Channel								
				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	3455.01	3499.98	3544.98	17.0	0.0
Channel								
				630000	633332	636668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	3450	3499.98	3549.99	17.0	0.0
Channel								
				629668	633332	637000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	PI2 BPSK	1	1	3445.01	3499.98	3554.98	17.0	0.0

### Part27Q\_n78\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				650000	650000	650000		
Frequency (MHz)								
100	PI2 BPSK	1	1	15.85	15.85	15.85	17.0	0.0
100	PI2 BPSK	1	137	18.06	18.06	18.06	17.0	0.0
100	PI2 BPSK	1	271	18.13	18.13	18.13	17.0	0.0
100	PI2 BPSK	135	0	18.98	18.98	18.98	17.0	0.0
100	PI2 BPSK	135	69	18.13	18.13	18.13	17.0	0.0
100	PI2 BPSK	135	138	18.11	18.11	18.11	17.0	0.0
100	PI2 BPSK	270	0	18.05	18.05	18.05	17.0	0.0
100	QPSK	1	1	18.23	18.23	18.23	17.0	0.0
100	QPSK	1	137	16.19	16.19	16.19	17.0	0.0
100	QPSK	1	271	18.13	18.13	18.13	17.0	0.0
100	QPSK	135	0	18.82	18.82	18.82	17.0	0.0
100	QPSK	135	69	18.21	18.21	18.21	17.0	0.0
100	QPSK	135	138	15.96	15.96	15.96	17.0	0.0
100	QPSK	270	0	18.18	18.18	18.18	17.0	0.0
100	16QAM	1	1	18.78	18.78	18.78	17.0	0.0
100	64QAM	1	1	18.73	18.73	18.73	17.0	0.0
100	256QAM	1	1	18.94	18.94	18.94	17.0	0.0
Channel								
				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
90	QPSK	1	1	3743.02	3750	3754.98	17.0	0.0
Channel								
				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
80	QPSK	1	1	3740.01	3750	3759.99	17.0	0.0
Channel								
				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
70	QPSK	1	1	3735	3750	3765	17.0	0.0
Channel								
				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
60	QPSK	1	1	3730.02	3750	3769.98	17.0	0.0
Channel								
				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
50	QPSK	1	1	3725.01	3750	3774.99	17.0	0.0
Channel								
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
40	QPSK	1	1	3720	3750	3780	17.0	0.0
Channel								
				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	3715.02	3750	3784.98	17.0	0.0
Channel								
				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
25	QPSK	1	1	3710.01	3750	3789.99	17.0	0.0
Channel								
				647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	3705	3750	3795	17.0	0.0
Channel								
				646668	650000	653332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	3700.02	3750	3799.99	17.0	0.0
Channel								
				646334	650000	653668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	PI2 BPSK	1	1	3695.01	3750	3804.98	17.0	0.0

### Part27Q\_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								
				633332	633332	633998		
Frequency (MHz)								
100	PI2 BPSK	1	1	17.48	17.48	17.48	18.5	0.0
100	PI2 BPSK	1	137	17.38	17.38	17.38	18.5	0.0
100	PI2 BPSK	1	271	17.51	17.51	17.51	18.5	0.0
100	PI2 BPSK	135	0	17.46	17.46	17.46	18.5	0.0
100	PI2 BPSK	135	69	17.38	17.38	17.38	18.5	0.0
100	PI2 BPSK	135	138	17.41	17.41	17.41	18.5	0.0
100	PI2 BPSK	270	0	17.37	17.37	17.37	18.5	0.0
100	QPSK	1	1	17.53	17.53	17.53	18.5	0.0
100	QPSK	1	137	17.41	17.41	17.41	18.5	0.0
100	QPSK	1	271	17.46	17.46	17.46	18.5	0.0
100	QPSK	135	0	17.43	17.43	17.43	18.5	0.0
100	QPSK	135	69	17.51	17.51	17.51	18.5	0.0
100	QPSK	135	138	17.37	17.37	17.37	18.5	0.0
100	QPSK	270	0	17.49	17.49	17.49	18.5	0.0
100	16QAM	1	1	17.30	17.30	17.30	18.5	0.0
100	64QAM	1	1	17.23	17.23	17.23	18.5	0.0
100	256QAM	1	1	17.36	17.36	17.36	18.5	0.0
Channel								
				633000	633332	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
90	QPSK	1	1	3495	3498.08	3504.99	17.2	0.0
Channel								
				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
80	QPSK	1	1	3490.02	3499.98	3510	18.5	0.0
Channel								
				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
70	QPSK	1	1	3485.01	3499.98	3514.98	17.2	0.0
Channel								
				632000	633332	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
60	QPSK	1	1	3480	3499.98	3519.99	18.5	0.0
Channel								
				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
50	QPSK	1	1	3475.02	3499.98	3524.98	17.2	0.0
Channel								
				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
40	QPSK	1	1	3470.01	3499.98	3529.98	18.5	0.0
Channel								
				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
30	QPSK	1	1	3465	3499.98	3534.98	18.5	0.0
Channel								
				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
25	QPSK	1	1	3460.02	3499.98	3539.98	18.5	0.0
Channel								
				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
20	QPSK	1	1	3455.01	3499.98	3544.98	18.5	0.0
Channel								
				630000	633332	636668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
15	QPSK	1	1	3450	3499.98	3549.98	18.5	0.0
Channel								
				629668	633332	637000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)								
10	PI2 BPSK	1	1	3445.01	3499.98	3554.98	18.5	



### Part27Q\_n77(HPUe)\_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)				633332				
100	PI2 BPSK	1	1	3499.88	20.31			
100	PI2 BPSK	1	137	20.20			21.5	0.0
100	PI2 BPSK	1	271	20.27				
100	PI2 BPSK	135	0	20.35			21.5	0.0
100	PI2 BPSK	135	69	20.18			21.5	0.0
100	PI2 BPSK	135	138	20.03			21.5	0.0
100	PI2 BPSK	270	0	20.21				
100	QPSK	1	1	20.38				
100	QPSK	1	137	20.25			21.5	0.0
100	QPSK	1	271	20.34				
100	QPSK	135	0	20.18				
100	QPSK	135	69	20.34			21.5	0.0
100	QPSK	135	138	20.31				
100	QPSK	270	0	20.32			21.5	0.0
100	16QAM	1	1	20.04			21.5	0.0
100	64QAM	1	1	20.22			21.5	0.0
100	256QAM	1	1	20.21			21.5	0.0
Channel								
Frequency (MHz)				633000	633332	633668	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3495	3499.88	3504.89		
				20.25	20.30	20.32	21.5	0.0
Channel								
Frequency (MHz)				632968	633332	634000	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3490.02	3499.88	3510		
				20.31	20.04	20.20	21.5	0.0
Channel								
Frequency (MHz)				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
100	QPSK	1	1	3495.01	3499.88	3514.88		
				20.21	20.05	20.23	21.5	0.0
Channel								
Frequency (MHz)				632000	633332	634668	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3480	3499.88	3519.99		
				20.28	20.15	20.06	21.5	0.0
Channel								
Frequency (MHz)				631688	633332	635000	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3475.02	3499.88	3525		
				20.18	20.11	20.16	21.5	0.0
Channel								
Frequency (MHz)				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3470.01	3499.88	3529.98		
				20.12	20.27	20.22	21.5	0.0
Channel								
Frequency (MHz)				631000	633332	635668	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3465	3499.88	3534.89		
				20.26	20.22	20.31	21.5	0.0
Channel								
Frequency (MHz)				630634	633332	635832	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3460.51	3499.88	3537.48		
				20.10	20.09	20.13	21.5	0.0
Channel								
Frequency (MHz)				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3460.02	3499.88	3540		
				20.29	20.04	20.15	21.5	0.0
Channel								
Frequency (MHz)				630500	633332	636168	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	3457.5	3499.88	3542.49		
				19.98	20.31	20.21	21.5	0.0
Channel								
Frequency (MHz)				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
10	PI2 BPSK	1	1	3455.01	3499.88	3544.98		
				20.02	20.25	20.29	21.5	0.0

### Part27O\_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)				650000	656000	662000		
100	PI2 BPSK	1	1	3720	3940	3920		
100	PI2 BPSK	1	137	17.12	17.17	17.12		
100	PI2 BPSK	1	137	17.33	17.38	17.27	18.5	0.0
100	PI2 BPSK	1	271	17.45	17.47	17.44		
100	PI2 BPSK	135	0	17.21	17.29	17.21	18.5	0.0
100	PI2 BPSK	135	69	17.35	17.38	17.27	18.5	0.0
100	PI2 BPSK	135	138	17.25	17.33	17.20		
100	PI2 BPSK	270	0	17.30	17.33	17.25	18.5	0.0
100	QPSK	1	1	17.26	17.51	17.28		
100	QPSK	1	137	17.33	17.39	17.31	18.5	0.0
100	QPSK	1	271	17.22	17.28	17.27		
100	QPSK	135	0	17.19	17.29	17.19		
100	QPSK	135	69	17.40	17.48	17.34	18.5	0.0
100	QPSK	135	138	17.27	17.27	17.28		
100	QPSK	270	0	17.21	17.45	17.29	18.5	0.0
100	16QAM	1	1	18.88	17.07	17.00	18.5	0.0
100	64QAM	1	1	17.18	17.28	17.15	18.5	0.0
100	256QAM	1	1	17.38	17.42	17.42	18.5	0.0
Channel								
Frequency (MHz)				649668	656000	662332	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3715.02	3840	3924.88		
				17.41	17.41	17.31	18.5	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3939.99		
				17.31	17.38	17.35	18.5	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3735	3840	3945		
				17.42	17.39	17.36	18.5	0.0
Channel								
Frequency (MHz)				648668	656000	663332	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3730.02	3840	3949.98		
				17.38	17.48	17.32	18.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3725.01	3840	3954.99		
				17.36	17.45	17.30	18.5	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3840	3960		
				17.41	17.41	17.31	18.5	0.0
Channel								
Frequency (MHz)				647668	656000	664332	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3840	3964.88		
				17.31	17.50	17.32	18.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3710.01	3840	3969.99		
				17.23	17.40	17.33	18.5	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3705	3840	3975		
				17.18	17.42	17.27	18.5	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	PI2 BPSK	1	1	3705	3840	3975		
				17.42	17.49	17.33	18.5	0.0

### Part27O\_n77(HPUe)\_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)				650000	656000	662000		
100	PI2 BPSK	1	1	3720	3940	3920		
100	PI2 BPSK	1	137	17.12	17.17	17.12		
100	PI2 BPSK	1	137	17.33	17.38	17.27	21.5	0.0
100	PI2 BPSK	1	271	17.45	17.47	17.44		
100	PI2 BPSK	135	0	17.21	17.29	17.21	21.5	0.0
100	PI2 BPSK	135	69	17.35	17.38	17.27	21.5	0.0
100	PI2 BPSK	135	138	17.25	17.33	17.20		
100	PI2 BPSK	270	0	17.30	17.33	17.25	21.5	0.0
100	QPSK	1	1	17.26	17.51	17.28		
100	QPSK	1	137	17.33	17.39	17.31	21.5	0.0
100	QPSK	1	271	17.22	17.28	17.27		
100	QPSK	135	0	17.19	17.29	17.19		
100	QPSK	135	69	17.40	17.48	17.34	21.5	0.0
100	QPSK	135	138	17.27	17.27	17.28		
100	QPSK	270	0	17.21	17.45	17.29	21.5	0.0
100	16QAM	1	1	20.00	19.96	20.05	21.5	0.0
100	64QAM	1	1	19.83	20.03	19.82	21.5	0.0
100	256QAM	1	1	19.75	19.78	19.82	21.5	0.0
Channel								
Frequency (MHz)				649668	656000	662332	Tune-up limit (dBm)	MPR (dB)
90	QPSK	1	1	3715.02	3840	3924.88		
				20.10	19.95	19.74	21.5	0.0
Channel								
Frequency (MHz)				649334	656000	662668	Tune-up limit (dBm)	MPR (dB)
80	QPSK	1	1	3740.01	3840	3939.99		
				19.83	20.01	19.80	21.5	0.0
Channel								
Frequency (MHz)				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
70	QPSK	1	1	3735	3840	3945		
				20.10	19.88	19.80	21.5	0.0
Channel								
Frequency (MHz)				648668	656000	663332	Tune-up limit (dBm)	MPR (dB)
60	QPSK	1	1	3730.02	3840	3949.98		
				20.09	19.86	19.77	21.5	0.0
Channel								
Frequency (MHz)				648334	656000	663668	Tune-up limit (dBm)	MPR (dB)
50	QPSK	1	1	3725.01	3840	3954.99		
				20.01	19.94	19.88	21.5	0.0
Channel								
Frequency (MHz)				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	QPSK	1	1	3720	3840	3960		
				20.00	19.97	19.89	21.5	0.0
Channel								
Frequency (MHz)				647668	656000	664332	Tune-up limit (dBm)	MPR (dB)
30	QPSK	1	1	3715.02	3840	3964.88		
				19.78	19.90	19.85	21.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
25	QPSK	1	1	3710.01	3840	3969.99		
				19.88	20.07	19.78	21.5	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
20	QPSK	1	1	3705	3840	3975		
				19.92	20.05	19.70	21.5	0.0
Channel								
Frequency (MHz)				647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
10	PI2 BPSK	1	1	3705	3840	3975		
				20.04	19.93	19.77	21.5	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.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
3499.98								
100	PI2 BPSK	1	1	16.85				
100	PI2 BPSK	1	137	16.81			18.5	0.0
100	PI2 BPSK	1	271	17.11				
100	PI2 BPSK	135	0	16.99			18.5	0.0
100	PI2 BPSK	135	69	16.94			18.5	0.0
100	PI2 BPSK	135	138	16.92			18.5	0.0
100	PI2 BPSK	270	0	16.96				
100	QPSK	1	1	17.16				
100	QPSK	1	137	16.97			18.5	0.0
100	QPSK	1	271	16.96				
100	QPSK	135	0	17.04				
100	QPSK	135	69	17.14			18.5	0.0
100	QPSK	135	138	16.96				
100	QPSK	270	0	17.11			18.5	0.0
100	16QAM	1	1	16.88			18.5	0.0
100	64QAM	1	1	16.82			18.5	0.0
100	256QAM	1	1	16.87			18.5	0.0
Channel								
Frequency (MHz)								
3495								
90	QPSK	1	1	17.00	17.11	17.12	18.5	0.0
Channel								
Frequency (MHz)								
3490.02								
80	QPSK	1	1	16.88	17.06	16.86	18.5	0.0
Channel								
Frequency (MHz)								
3492.01								
70	QPSK	1	1	16.72	16.85	17.10	18.5	0.0
Channel								
Frequency (MHz)								
3490.02								
60	QPSK	1	1	16.78	16.83	17.10	18.5	0.0
Channel								
Frequency (MHz)								
3491.01								
50	QPSK	1	1	16.87	17.11	16.91	18.5	0.0
Channel								
Frequency (MHz)								
3470.01								
40	QPSK	1	1	17.04	17.00	16.89	18.5	0.0
Channel								
Frequency (MHz)								
3495								
30	QPSK	1	1	16.94	16.83	17.14	18.5	0.0
Channel								
Frequency (MHz)								
3492.01								
25	QPSK	1	1	17.07	16.92	16.87	18.5	0.0
Channel								
Frequency (MHz)								
3498.02								
20	QPSK	1	1	16.99	17.12	16.97	18.5	0.0
Channel								
Frequency (MHz)								
3457.5								
15	QPSK	1	1	16.96	17.15	16.92	18.5	0.0
Channel								
Frequency (MHz)								
3455.01								
10	PI2 BPSK	1	1	17.01	17.05	17.06	18.5	0.0

Part27O_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)								
3750								
100	PI2 BPSK	1	1	16.87				
100	PI2 BPSK	1	137	17.16			18.5	0.0
100	PI2 BPSK	1	271	17.27				
100	PI2 BPSK	135	0	17.09			18.5	0.0
100	PI2 BPSK	135	69	17.16			18.5	0.0
100	PI2 BPSK	135	138	17.13			18.5	0.0
100	PI2 BPSK	270	0	17.31				
100	QPSK	1	1	17.31				
100	QPSK	1	137	17.19			18.5	0.0
100	QPSK	1	271	17.08				
100	QPSK	135	0	17.09				
100	QPSK	135	69	17.22			18.5	0.0
100	QPSK	135	138	17.17				
100	QPSK	270	0	17.37			18.5	0.0
100	16QAM	1	1	16.87			18.5	0.0
100	64QAM	1	1	17.06			18.5	0.0
100	256QAM	1	1	17.22			18.5	0.0
Channel								
Frequency (MHz)								
3745.02								
90	QPSK	1	1	17.24	17.19	17.23	18.5	0.0
Channel								
Frequency (MHz)								
3740.01								
80	QPSK	1	1	17.20	17.20	17.11	18.5	0.0
Channel								
Frequency (MHz)								
3735								
70	QPSK	1	1	16.89	16.93	17.23	18.5	0.0
Channel								
Frequency (MHz)								
3730.02								
60	QPSK	1	1	17.19	17.12	17.17	18.5	0.0
Channel								
Frequency (MHz)								
3725.01								
50	QPSK	1	1	17.24	17.08	17.28	18.5	0.0
Channel								
Frequency (MHz)								
3720								
40	QPSK	1	1	17.26	16.97	17.25	18.5	0.0
Channel								
Frequency (MHz)								
3715.02								
30	QPSK	1	1	17.19	17.12	17.27	18.5	0.0
Channel								
Frequency (MHz)								
3712.5								
25	QPSK	1	1	17.21	16.91	17.23	18.5	0.0
Channel								
Frequency (MHz)								
3710.01								
20	QPSK	1	1	17.25	17.02	17.05	18.5	0.0
Channel								
Frequency (MHz)								
3707.52								
15	QPSK	1	1	17.23	17.10	17.25	18.5	0.0
Channel								
Frequency (MHz)								
3705								
10	PI2 BPSK	1	1	17.27	17.10	17.21	18.5	0.0

Part27Q_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)								
3499.98								
100	PI2 BPSK	1	1	16.89				
100	PI2 BPSK	1	137	16.21			17.0	0.0
100	PI2 BPSK	1	271	16.17				
100	PI2 BPSK	135	0	16.22			17.0	0.0
100	PI2 BPSK	135	69	16.27			17.0	0.0
100	PI2 BPSK	135	138	16.97			17.0	0.0
100	PI2 BPSK	270	0	16.27				
100	QPSK	1	1	16.48				
100	QPSK	1	137	16.30			17.0	0.0
100	QPSK	1	271	16.29				
100	QPSK	135	0	16.33				
100	QPSK	135	69	16.45			17.0	0.0
100	QPSK	135	138	16.40				
100	QPSK	270	0	16.43			17.0	0.0
100	16QAM	1	1	16.38			17.0	0.0
100	64QAM	1	1	16.20			17.0	0.0
100	256QAM	1	1	16.40			17.0	0.0
Channel								
Frequency (MHz)								
3495								
90	QPSK	1	1	16.34	16.37	16.25	17.0	0.0
Channel								
Frequency (MHz)								
3490.02								
80	QPSK	1	1	16.25	16.18	16.29	17.0	0.0
Channel								
Frequency (MHz)								
3485.01								
70	QPSK	1	1	16.39	16.34	16.03	17.0	0.0
Channel								
Frequency (MHz)								
3480								
60	QPSK	1	1	16.37	16.30	16.24	17.0	0.0
Channel								
Frequency (MHz)								
3475.02								
50	QPSK	1	1	16.30	16.10	16.00	17.0	0.0
Channel								
Frequency (MHz)								
3470.01								
40	QPSK	1	1	16.27	16.33	16.13	17.0	0.0
Channel								
Frequency (MHz)								
3465								
30	QPSK	1	1	16.14	16.20	16.01	17.0	0.0
Channel								
Frequency (MHz)								
3462.51								
25	QPSK	1	1	16.09	16.21	16.04	17.0	0.0
Channel								
Frequency (MHz)								
3460.02								
20	QPSK	1	1	16.38	16.30	16.17	17.0	0.0
Channel								
Frequency (MHz)								
3457.5								
15	QPSK	1	1	16.17	16.27	16.31	17.0	0.0
Channel								
Frequency (MHz)								
3455.01								
10	PI2 BPSK	1	1	16.40	16.31	16.08	17.0	0.0



### Part27Q\_n77(HPUE)\_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) 63332								
100	PI2 BPSK	1	1	439.88				
100	PI2 BPSK	135	137	19.10			20.0	0.0
100	PI2 BPSK	1	271	18.99				
100	PI2 BPSK	135	0	19.10			20.0	0.0
100	PI2 BPSK	135	69	19.20			20.0	0.0
100	PI2 BPSK	135	138	18.91			20.0	0.0
100	PI2 BPSK	270	0	19.20				
100	QPSK	1	1	19.38				
100	QPSK	1	137	19.16			20.0	0.0
100	QPSK	1	271	19.18				
100	QPSK	135	0	19.14				
100	QPSK	135	69	19.38			20.0	0.0
100	QPSK	135	138	19.21				
100	QPSK	270	0	19.27				
100	16QAM	1	1	19.31			20.0	0.0
100	64QAM	1	1	19.20			20.0	0.0
100	256QAM	1	1	19.19			20.0	0.0
Channel								
Frequency (MHz) 63332								
90	QPSK	1	1	3458	3459.88	3518.89		
Channel								
Frequency (MHz) 63332								
80	QPSK	1	1	3490.02	3499.88	3510.00		
Channel								
Frequency (MHz) 63332								
70	QPSK	1	1	3492.02	3499.88	3519.89		
Channel								
Frequency (MHz) 63332								
60	QPSK	1	1	3480	3499.88	3519.89		
Channel								
Frequency (MHz) 63332								
50	QPSK	1	1	3475.02	3499.88	3525.00		
Channel								
Frequency (MHz) 63332								
40	QPSK	1	1	3470.01	3499.88	3529.88		
Channel								
Frequency (MHz) 63332								
30	QPSK	1	1	3462.51	3499.88	3537.48		
Channel								
Frequency (MHz) 63332								
25	QPSK	1	1	3460.02	3499.88	3540.00		
Channel								
Frequency (MHz) 63332								
20	QPSK	1	1	3455.00	3499.88	3542.48		
Channel								
Frequency (MHz) 63332								
15	QPSK	1	1	3455.01	3499.88	3544.98		
Channel								
Frequency (MHz) 63332								
10	PI2 BPSK	1	1	19.07	19.12	19.31	20.0	0.0

### Part27O\_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) 65000								
100	PI2 BPSK	1	1	3750	3840	3930		
100	PI2 BPSK	135	137	16.82	16.17	15.92	17.0	0.0
100	PI2 BPSK	1	271	15.83	15.96	15.81		
100	PI2 BPSK	1	271	15.92	16.11	15.89		
100	PI2 BPSK	135	0	16.07	16.10	16.07	17.0	0.0
100	PI2 BPSK	135	69	15.91	16.13	16.00	17.0	0.0
100	PI2 BPSK	135	138	15.81	15.99	15.79		
100	PI2 BPSK	270	0	15.70	15.91	15.77		
100	QPSK	1	1	16.10	16.20	16.08		
100	QPSK	1	137	16.02	16.15	15.99	17.0	0.0
100	QPSK	1	271	15.82	16.04	15.81		
100	QPSK	135	0	15.82	16.02	15.87		
100	QPSK	135	69	16.01	16.18	16.04	17.0	0.0
100	QPSK	135	138	15.88	16.00	15.84		
100	QPSK	270	0	16.14	16.16	16.06	17.0	0.0
100	16QAM	1	1	15.82	16.06	15.88	17.0	0.0
100	64QAM	1	1	16.10	16.16	15.91	17.0	0.0
100	256QAM	1	1	15.68	16.03	15.70	17.0	0.0
Channel								
Frequency (MHz) 64968								
90	QPSK	1	1	3745.02	3840	3934.98		
Channel								
Frequency (MHz) 64934								
80	QPSK	1	1	3740.01	3840	3939.99		
Channel								
Frequency (MHz) 64900								
70	QPSK	1	1	3735.00	3840	3945.00		
Channel								
Frequency (MHz) 64868								
60	QPSK	1	1	3730.02	3840	3949.98		
Channel								
Frequency (MHz) 64834								
50	QPSK	1	1	3725.01	3840	3954.99		
Channel								
Frequency (MHz) 64800								
40	QPSK	1	1	3720.00	3840	3960.00		
Channel								
Frequency (MHz) 64768								
30	QPSK	1	1	3715.02	3840	3964.98		
Channel								
Frequency (MHz) 64730								
25	QPSK	1	1	3712.5	3840	3967.5		
Channel								
Frequency (MHz) 64734								
20	QPSK	1	1	3710.01	3840	3969.99		
Channel								
Frequency (MHz) 64700								
15	QPSK	1	1	3707.52	3840	3972.48		
Channel								
Frequency (MHz) 64700								
10	PI2 BPSK	1	1	16.11	16.16	15.80	17.0	0.0

### Part27O\_n77(HPUE)\_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) 65000								
100	PI2 BPSK	1	1	3750	3840	3930		
100	PI2 BPSK	135	137	18.81	18.91	18.76	20.0	0.0
100	PI2 BPSK	1	271	18.78	18.75	18.78		
100	PI2 BPSK	1	271	18.76	18.89	18.71		
100	PI2 BPSK	135	0	18.79	18.99	18.79	20.0	0.0
100	PI2 BPSK	135	69	18.95	19.08	18.94	20.0	0.0
100	PI2 BPSK	135	138	18.86	19.04	18.87		
100	PI2 BPSK	270	0	18.70	19.80	18.80		
100	QPSK	1	1	19.38	19.11	19.57		
100	QPSK	1	137	18.77	18.94	18.84	20.0	0.0
100	QPSK	1	271	18.84	19.02	18.83		
100	QPSK	135	0	18.78	18.96	18.73		
100	QPSK	135	69	18.84	19.08	18.85	20.0	0.0
100	QPSK	135	138	18.78	18.90	18.76		
100	QPSK	270	0	18.72	19.06	18.72		
100	16QAM	1	1	18.82	18.74	18.81	20.0	0.0
100	64QAM	1	1	18.83	18.81	18.86	20.0	0.0
100	256QAM	1	1	18.84	18.79	18.71	20.0	0.0
Channel								
Frequency (MHz) 64968								
90	QPSK	1	1	3745.02	3840	3934.98		
Channel								
Frequency (MHz) 64934								
80	QPSK	1	1	3740.01	3840	3939.99		
Channel								
Frequency (MHz) 64900								
70	QPSK	1	1	3735.00	3840	3945.00		
Channel								
Frequency (MHz) 64868								
60	QPSK	1	1	3730.02	3840	3949.98		
Channel								
Frequency (MHz) 64834								
50	QPSK	1	1	3725.01	3840	3954.99		
Channel								
Frequency (MHz) 64800								
40	QPSK	1	1	3720.00	3840	3960.00		
Channel								
Frequency (MHz) 64768								
30	QPSK	1	1	3715.02	3840	3964.98		
Channel								
Frequency (MHz) 64730								
25	QPSK	1	1	3712.5	3840	3967.5		
Channel								
Frequency (MHz) 64734								
20	QPSK	1	1	3710.01	3840	3969.99		
Channel								
Frequency (MHz) 64700								
15	QPSK	1	1	3707.52	3840	3972.48		
Channel								
Frequency (MHz) 64700								
10	PI2 BPSK	1	1	18.78	18.89	19.04	20.0	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				633332	633332			
Frequency (MHz)				3499.88				
100	PI2 BPSK	1	1	16.02			17.0	0.0
100	PI2 BPSK	1	137	16.16				
100	PI2 BPSK	1	271	16.09				
100	PI2 BPSK	135	0	16.22			17.0	0.0
100	PI2 BPSK	135	69	16.14			17.0	0.0
100	PI2 BPSK	135	138	16.97				
100	PI2 BPSK	270	0	16.22			17.0	0.0
100	QPSK	1	1	16.40				
100	QPSK	1	137	16.27			17.0	0.0
100	QPSK	1	271	16.19				
100	QPSK	135	0	16.28				
100	QPSK	135	69	16.38			17.0	0.0
100	QPSK	135	138	16.31				
100	QPSK	270	0	16.34			17.0	0.0
100	16QAM	1	1	16.27			17.0	0.0
100	64QAM	1	1	16.08			17.0	0.0
100	256QAM	1	1	16.21			17.0	0.0
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3500.01	3505.02		
90	QPSK	1	1	16.24	16.39	16.33	17.0	0.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	16.17	16.33	16.30	17.0	0.0
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3482.01	3500.01	3516.01		
70	QPSK	1	1	16.23	16.35	16.29	17.0	0.0
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3500.01	3520.02		
60	QPSK	1	1	16.17	16.37	16.30	17.0	0.0
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3500.01	3525		
50	QPSK	1	1	16.13	16.35	16.28	17.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	16.17	16.33	16.28	17.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.88	3534.99		
30	QPSK	1	1	16.19	16.35	16.29	17.0	0.0
Channel				630634	633332	635932	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3462.51	3499.98	3537.48		
25	QPSK	1	1	16.20	16.27	16.29	17.0	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.88	3540		
20	QPSK	1	1	16.11	16.32	16.29	17.0	0.0
Channel				630500	633332	636166	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3457.5	3499.98	3542.49		
15	QPSK	1	1	16.09	16.36	16.26	17.0	0.0
Channel				630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3455.01	3499.98	3544.98		
10	PI2 BPSK	1	1	16.24	16.26	16.28	17.0	0.0

Part27O_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					650000			
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	15.93			17.0	0.0
100	PI2 BPSK	1	137	15.81				
100	PI2 BPSK	1	271	16.04				
100	PI2 BPSK	135	0	15.99			17.0	0.0
100	PI2 BPSK	135	69	16.13			17.0	0.0
100	PI2 BPSK	135	138	15.92				
100	PI2 BPSK	270	0	15.79			17.0	0.0
100	QPSK	1	1	16.15				
100	QPSK	1	137	16.05			17.0	0.0
100	QPSK	1	271	16.03				
100	QPSK	135	0	16.01				
100	QPSK	135	69	16.12			17.0	0.0
100	QPSK	135	138	15.93				
100	QPSK	270	0	16.10			17.0	0.0
100	16QAM	1	1	16.04			17.0	0.0
100	64QAM	1	1	15.99			17.0	0.0
100	256QAM	1	1	15.83			17.0	0.0
Channel				649668	650000	650332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3745.02	3750	3754.98		
90	QPSK	1	1	16.02	16.10	16.02	17.0	0.0
Channel				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3759.99		
80	QPSK	1	1	16.05	16.15	15.98	17.0	0.0
Channel				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	16.04	15.99	15.99	17.0	0.0
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3730.02	3750	3769.98		
60	QPSK	1	1	15.79	16.04	15.76	17.0	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3725.01	3750	3774.99		
50	QPSK	1	1	15.86	15.94	15.89	17.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	16.09	15.86	16.09	17.0	0.0
Channel				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3715.02	3750	3784.98		
30	QPSK	1	1	15.89	16.15	15.81	17.0	0.0
Channel				647500	650000	652900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3712.5	3750	3787.5		
25	QPSK	1	1	15.97	16.13	15.99	17.0	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3789.99		
20	QPSK	1	1	15.88	15.98	15.74	17.0	0.0
Channel				647168	650000	653332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3707.52	3750	3792.48		
15	QPSK	1	1	16.08	15.92	16.10	17.0	0.0
Channel				647000	650000	653900	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3705	3750	3795		
10	PI2 BPSK	1	1	15.86	15.89	15.83	17.0	0.0



Reduced Power Mode for DS14

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)				1800	1840	1800			
20	PI2 BPSK	1	1	23.15	23.43	23.35			
20	PI2 BPSK	1	53	23.34	23.44	23.31	24.0	0.0	
20	PI2 BPSK	1	104	23.40	23.45	23.23			
20	PI2 BPSK	50	0	22.63	22.90	22.83	23.5	0.5	
20	PI2 BPSK	50	28	23.22	23.42	23.32	24.0	0.0	
20	PI2 BPSK	50	56	22.78	22.86	22.68			
20	PI2 BPSK	100	0	22.88	22.88	22.81			
20	QPSK	1	1	23.43	23.50	23.46	24.0	0.0	
20	QPSK	1	53	23.42	23.46	23.44			
20	QPSK	1	104	23.37	23.44	23.37			
20	QPSK	50	0	22.34	22.44	22.40	23.0	1.0	
20	QPSK	50	28	23.36	23.38	23.34	24.0	0.0	
20	QPSK	50	56	22.34	22.38	22.34			
20	QPSK	100	0	22.29	22.41	22.40			
20	16QAM	1	1	22.64	22.72	22.69	23.0	1.0	
20	64QAM	1	1	20.64	20.66	20.62	21.5	2.5	
20	256QAM	1	1	18.95	19.07	19.06	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)	
15	QPSK	1	1	23.39	23.46	23.31	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	23.44	23.38	23.43	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit	MPR	
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	23.32	23.45	23.48	24.0	0.0	

n2_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				372000	376000	380000			
Frequency (MHz)				1800	1840	1800			
20	PI2 BPSK	1	1	23.20	23.25	23.31			
20	PI2 BPSK	1	53	23.28	23.37	23.27	24.0	0.0	
20	PI2 BPSK	1	104	23.34	23.42	23.10			
20	PI2 BPSK	50	0	22.64	22.83	22.67	23.5	0.5	
20	PI2 BPSK	50	28	23.08	23.38	23.12	24.0	0.0	
20	PI2 BPSK	50	56	22.63	22.83	22.60			
20	PI2 BPSK	100	0	22.61	22.87	22.65			
20	QPSK	1	1	23.26	23.45	23.27	24.0	0.0	
20	QPSK	1	53	23.15	23.42	23.24			
20	QPSK	1	104	23.22	23.41	23.13			
20	QPSK	50	0	22.10	22.33	22.21	23.0	1.0	
20	QPSK	50	28	23.23	23.41	23.24	24.0	0.0	
20	QPSK	50	56	22.16	22.33	22.10			
20	QPSK	100	0	22.09	22.36	22.16			
20	16QAM	1	1	22.01	22.29	22.53	23.0	1.0	
20	64QAM	1	1	20.59	20.63	20.74	21.5	2.5	
20	256QAM	1	1	18.55	18.83	19.02	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)	
15	QPSK	1	1	22.80	23.39	23.30	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)	
10	QPSK	1	1	22.79	23.29	23.10	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit	MPR	
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	QPSK	1	1	23.17	23.35	23.01	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	834.5	839			
20	PI2 BPSK	1	1	23.17	23.09	23.14			
20	PI2 BPSK	1	53	23.17	23.12	23.16	24.0	0.0	
20	PI2 BPSK	1	104	22.67	22.69	22.32			
20	PI2 BPSK	50	0	22.59	22.67	22.62	23.5	0.5	
20	PI2 BPSK	50	28	22.58	22.57	22.65	24.0	0.0	
20	PI2 BPSK	50	56	22.63	22.48	22.45			
20	PI2 BPSK	100	0	22.71	22.63	22.61			
20	QPSK	1	1	23.13	23.18	23.16	24.0	0.0	
20	QPSK	1	53	23.08	23.07	23.12			
20	QPSK	1	104	22.19	22.20	22.28			
20	QPSK	50	0	22.09	22.11	22.10	23.0	1.0	
20	QPSK	50	28	22.10	22.15	22.14	24.0	0.0	
20	QPSK	50	56	22.06	21.93	21.96			
20	QPSK	100	0	22.14	22.20	22.18			
20	16QAM	1	1	22.28	22.28	22.09	23.0	1.0	
20	64QAM	1	1	20.90	20.67	20.71	21.5	2.5	
20	256QAM	1	1	18.41	18.48	18.40	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	23.14	23.11	22.94	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit	MPR	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	23.14	23.09	23.00	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	23.09	23.06	23.00	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								
				166800	167300	167800		
Frequency (MHz)								
20	PI2 BPSK	1	1	23.10	23.09	23.08	24.0	0.0
20	PI2 BPSK	1	53	23.05	23.05	23.14		
20	PI2 BPSK	1	104	23.07	23.10	22.27		
20	PI2 BPSK	50	0	22.53	22.82	22.55	23.5	0.5
20	PI2 BPSK	50	28	23.05	23.01	23.14		
20	PI2 BPSK	50	56	22.58	22.63	22.40	23.5	0.5
20	PI2 BPSK	100	0	22.81	22.78	22.77		
20	QPSK	1	1	23.04	23.15	23.05		
20	QPSK	1	53	22.98	23.06	23.01	24.0	0.0
20	QPSK	1	104	22.59	22.82	22.81		
20	QPSK	50	0	22.13	22.11	22.11	23.0	1.0
20	QPSK	50	28	22.95	23.07	22.97		
20	QPSK	50	56	21.99	21.97	21.90	23.0	1.0
20	QPSK	100	0	22.00	22.04	22.03		
20	16QAM	1	1	22.13	22.10	22.08		
20	64QAM	1	1	20.45	20.47	20.45	21.5	2.5
20	256QAM	1	1	18.59	18.82	18.60		
Channel								
				166300	167300	168300		
Frequency (MHz)								
15	QPSK	1	1	22.92	23.08	23.10	24.0	0.0
				831.5	836.5	841.5		
Channel								
				165800	167300	168800		
Frequency (MHz)								
10	QPSK	1	1	22.88	23.11	22.95	24.0	0.0
				826.5	836.5	846.5		
Channel								
				165300	167300	169300		
Frequency (MHz)								
5	QPSK	1	1	23.03	22.97	22.90	24.0	0.0
				815	836.5	841.5		

### 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)								
40	PI2 BPSK	1	1	23.05	23.12	23.09	24.0	0.0
40	PI2 BPSK	1	108	23.11	23.14	23.11		
40	PI2 BPSK	1	214	22.89	23.01	23.06		
40	PI2 BPSK	108	0	22.61	22.58	22.56	23.5	0.5
40	PI2 BPSK	108	54	23.04	23.10	23.05		
40	PI2 BPSK	108	108	22.60	22.62	22.68	23.5	0.5
40	PI2 BPSK	216	0	22.77	22.68	22.62		
40	QPSK	1	1	23.14	23.15	23.06		
40	QPSK	1	108	23.13	23.12	23.05	24.0	0.0
40	QPSK	1	214	22.88	22.91	23.04		
40	QPSK	108	0	22.08	22.08	22.06	23.0	1.0
40	QPSK	108	54	23.11	23.12	23.04		
40	QPSK	108	108	22.32	22.34	22.24	23.0	1.0
40	QPSK	216	0	22.15	22.16	22.14		
40	16QAM	1	1	21.93	22.15	22.27		
40	64QAM	1	1	20.63	20.67	20.53	21.5	2.5
40	256QAM	1	1	18.60	18.64	18.62		
Channel								
				503000	507000	511000		
Frequency (MHz)								
30	QPSK	1	1	23.07	23.09	22.99	24.0	0.0
				2515	2535	2555		
Channel								
				502300	507000	511500		
Frequency (MHz)								
25	QPSK	1	1	22.93	22.96	22.87	24.0	0.0
				2512.5	2535	2557.5		
Channel								
				502000	507000	512000		
Frequency (MHz)								
20	QPSK	1	1	23.05	23.11	22.85	24.0	0.0
				2510	2535	2560		
Channel								
				501500	507000	512500		
Frequency (MHz)								
15	QPSK	1	1	22.99	23.13	22.78	24.0	0.0
				2507.5	2535	2562.5		
Channel								
				501000	507000	513000		
Frequency (MHz)								
10	QPSK	1	1	22.90	22.99	23.06	24.0	0.0
				2505	2535	2565		
Channel								
				500500	507000	513500		
Frequency (MHz)								
5	QPSK	1	1	23.13	23.07	22.80	24.0	0.0
				2502.5	2535	2567.5		

### 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)								
15	PI2 BPSK	1	1	23.15	23.14	23.16	24.0	0.0
15	PI2 BPSK	1	40	23.11	23.11	23.16		
15	PI2 BPSK	1	77	23.17	23.11	23.19		
15	PI2 BPSK	36	0	22.61	22.72	22.69	23.5	0.5
15	PI2 BPSK	36	22	23.11	23.17	23.16		
15	PI2 BPSK	36	43	22.78	22.78	22.78	23.5	0.5
15	PI2 BPSK	75	0	22.79	22.72	22.73		
15	QPSK	1	1	23.16	23.22	23.16		
15	QPSK	1	40	23.12	23.20	23.17	24.0	0.0
15	QPSK	1	77	23.15	23.18	23.14		
15	QPSK	36	0	22.16	22.16	22.19	23.0	1.0
15	QPSK	36	22	23.13	23.20	23.16		
15	QPSK	36	43	22.27	22.11	22.24	23.0	1.0
15	QPSK	75	0	22.24	22.27	22.26		
15	16QAM	1	1	21.67	22.15	22.45		
15	64QAM	1	1	20.68	20.66	21.02	21.5	2.5
15	256QAM	1	1	18.29	18.24	18.52		
Channel								
				140800	141500	142200		
Frequency (MHz)								
10	QPSK	1	1	23.06	23.12	23.02	24.0	0.0
				704	707.5	711		
Channel								
				140300	141500	142700		
Frequency (MHz)								
5	QPSK	1	1	23.02	23.16	23.07	24.0	0.0
				701.5	707.5	713.5		





### 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)				793				
10	Pi/2 BPSK	1	1	22.80	22.77		24.0	0.0
10	Pi/2 BPSK	1	26	22.70				
10	Pi/2 BPSK	1	50	22.70				
10	Pi/2 BPSK	25	0	22.20			23.5	0.5
10	Pi/2 BPSK	25	14	22.82			24.0	0.0
10	Pi/2 BPSK	25	27	22.15			23.5	0.5
10	Pi/2 BPSK	50	0	22.29			24.0	0.0
10	QPSK	1	1	22.83			24.0	0.0
10	QPSK	1	26	22.62				
10	QPSK	1	50	22.64				
10	QPSK	25	0	21.78			23.0	1.0
10	QPSK	25	14	22.81			24.0	0.0
10	QPSK	25	27	21.73			23.0	1.0
10	QPSK	50	0	21.78			23.0	1.0
10	16QAM	1	1	22.13			23.0	1.0
10	64QAM	1	1	20.62			21.5	2.5
10	256QAM	1	1	18.06			19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5	24.0	0.0
5	QPSK	1	1	22.80	22.78	22.67	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)				1600				
20	Pi/2 BPSK	1	1	23.26	23.41	23.39	24.0	0.0
20	Pi/2 BPSK	1	53	23.33	23.51	23.31		
20	Pi/2 BPSK	1	104	23.37	23.48	22.83		
20	Pi/2 BPSK	50	0	22.77	23.02	22.98	23.5	0.5
20	Pi/2 BPSK	50	28	23.22	23.45	23.28	24.0	0.0
20	Pi/2 BPSK	50	56	22.82	23.04	22.85	23.5	0.5
20	Pi/2 BPSK	100	0	22.85	23.03	22.84		
20	QPSK	1	1	23.26	23.52	23.25	24.0	0.0
20	QPSK	1	53	23.27	23.49	23.22		
20	QPSK	1	104	23.35	23.37	23.18		
20	QPSK	50	0	22.22	22.55	22.48	23.0	1.0
20	QPSK	50	28	23.26	23.50	23.25	24.0	0.0
20	QPSK	50	56	22.43	22.50	22.32	23.0	1.0
20	QPSK	100	0	22.34	22.54	22.37		
20	16QAM	1	1	22.38	22.53	22.76	23.0	1.0
20	64QAM	1	1	20.62	20.85	20.89	21.5	2.5
20	256QAM	1	1	19.03	19.37	19.44	19.5	4.5
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5	24.0	0.0
15	QPSK	1	1	23.31	23.40	23.35	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	23.16	23.37	23.12	24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	23.13	23.25	23.21	24.0	0.0

### n25\_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				1600				
20	Pi/2 BPSK	1	1	23.13	23.28	23.22	24.0	0.0
20	Pi/2 BPSK	1	53	23.26	23.33	23.23		
20	Pi/2 BPSK	1	104	23.42	23.37	23.19		
20	Pi/2 BPSK	50	0	22.62	22.96	22.81	23.5	0.5
20	Pi/2 BPSK	50	28	23.18	23.35	23.31	24.0	0.0
20	Pi/2 BPSK	50	56	22.75	22.90	22.64	23.5	0.5
20	Pi/2 BPSK	100	0	22.71	22.81	22.83		
20	QPSK	1	1	23.35	23.48	23.32	24.0	0.0
20	QPSK	1	53	23.23	23.36	23.30		
20	QPSK	1	104	23.24	23.42	23.19		
20	QPSK	50	0	22.13	22.45	22.30	23.0	1.0
20	QPSK	50	28	23.27	23.45	23.30	24.0	0.0
20	QPSK	50	56	22.31	22.36	22.13	23.0	1.0
20	QPSK	100	0	22.16	22.37	22.27		
20	16QAM	1	1	22.16	22.25	22.40	23.0	1.0
20	64QAM	1	1	20.58	20.67	20.94	21.5	2.5
20	256QAM	1	1	18.51	18.75	18.89	19.5	4.5
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5	24.0	0.0
15	QPSK	1	1	23.20	23.31	23.38	24.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	23.05	23.37	23.10	24.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	23.21	23.27	23.18	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				164800	166300	167800		
Frequency (MHz)				624	631.5	639		
20	Pi/2 BPSK	1	1	23.12	23.07	23.01	24.0	0.0
20	Pi/2 BPSK	1	53	23.08	23.20	23.14		
20	Pi/2 BPSK	1	104	23.14	23.17	23.19		
20	Pi/2 BPSK	50	0	22.62	22.50	22.57		
20	Pi/2 BPSK	50	28	23.08	23.13	23.12	24.0	0.0
20	Pi/2 BPSK	50	56	22.62	22.79	22.82	23.5	0.5
20	Pi/2 BPSK	100	0	22.53	22.58	22.66		
20	QPSK	1	1	23.18	23.21	23.12	24.0	0.0
20	QPSK	1	53	23.10	23.12	23.07		
20	QPSK	1	104	23.13	23.18	23.10		
20	QPSK	50	0	22.08	22.07	22.10		
20	QPSK	50	28	23.16	23.19	23.12	24.0	0.0
20	QPSK	50	56	22.27	22.31	22.32	23.0	1.0
20	QPSK	100	0	22.09	22.18	22.15		
20	16QAM	1	1	22.16	22.16	22.16	23.0	1.0
20	64QAM	1	1	20.78	20.75	20.69	21.5	2.5
20	256QAM	1	1	18.23	18.26	18.26	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816	831.5	844	24.0	0.0
10	QPSK	1	1	23.14	23.11	22.94	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	23.15	23.17	23.04	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				164800	166300	167800		
Frequency (MHz)				624	631.5	639		
20	Pi/2 BPSK	1	1	23.12	23.15	23.12	24.0	0.0
20	Pi/2 BPSK	1	53	23.10	23.12	23.10		
20	Pi/2 BPSK	1	104	23.16	23.12	23.15		
20	Pi/2 BPSK	50	0	22.58	22.57	22.50		
20	Pi/2 BPSK	50	28	23.07	23.12	23.09	24.0	0.0
20	Pi/2 BPSK	50	56	22.70	22.74	22.77	23.5	0.5
20	Pi/2 BPSK	100	0	22.51	22.63	22.57		
20	QPSK	1	1	23.13	23.17	23.11	24.0	0.0
20	QPSK	1	53	23.12	23.15	23.06		
20	QPSK	1	104	23.07	23.11	23.09		
20	QPSK	50	0	22.03	22.07	22.03		
20	QPSK	50	28	23.11	23.14	23.08	24.0	0.0
20	QPSK	50	56	22.22	22.27	22.20	23.0	1.0
20	QPSK	100	0	22.02	22.11	22.02		
20	16QAM	1	1	21.67	21.79	21.70	23.0	1.0
20	64QAM	1	1	20.25	20.32	20.26	21.5	2.5
20	256QAM	1	1	18.72	18.73	18.62	19.5	4.5
Channel				164300	166300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				821.5	831.5	841.5	24.0	0.0
Channel				163800	166300	168800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816	831.5	844	24.0	0.0
15	QPSK	1	1	23.02	23.08	22.86	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816	831.5	844	24.0	0.0
10	QPSK	1	1	22.89	23.11	22.84	24.0	0.0
Channel				163300	166300	169300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5	24.0	0.0
5	QPSK	1	1	23.07	22.97	23.14	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	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2310	2312.5	2315	24.0	0.0	
10	Pi/2 BPSK	1	1		22.85		24.0	0.0	
10	Pi/2 BPSK	1	26		22.88				
10	Pi/2 BPSK	1	50		22.86				
10	Pi/2 BPSK	25	0		22.13		23.5	0.5	
10	Pi/2 BPSK	25	14		22.83		24.0	0.0	
10	Pi/2 BPSK	25	27		22.69		23.5	0.5	
10	Pi/2 BPSK	50	0		22.25				
10	QPSK	1	1		22.89		24.0	0.0	
10	QPSK	1	26		22.83				
10	QPSK	1	50		22.74				
10	QPSK	25	0		21.81		23.0	1.0	
10	QPSK	25	14		22.85		24.0	0.0	
10	QPSK	25	27		21.73		23.0	1.0	
10	QPSK	50	0		21.80				
10	16QAM	1	1		21.83		23.0	1.0	
10	64QAM	1	1		20.04		21.5	2.5	
10	256QAM	1	1		18.18		19.5	4.5	
Channel				461500	462000	462500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2307.5	2310	2312.5	24.0	0.0	
5	QPSK	1	1		22.86	22.83	22.78	24.0	0.0



n30\_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								
346000								
Frequency (MHz)								
10	Pi/2 BPSK	1	1	21.96			23.0	0.0
10	Pi/2 BPSK	1	26	21.95				
10	Pi/2 BPSK	1	50	21.92				
10	Pi/2 BPSK	25	0	21.44			22.5	0.5
10	Pi/2 BPSK	25	14	21.96			23.0	0.0
10	Pi/2 BPSK	25	27	21.42			22.5	0.5
10	Pi/2 BPSK	50	0	21.44			23.0	0.0
10	QPSK	1	1	22.00				
10	QPSK	1	26	21.96				
10	QPSK	1	50	21.97			22.0	1.0
10	QPSK	25	0	20.88				
10	QPSK	25	14	21.97				
10	QPSK	25	27	20.98			22.0	1.0
10	QPSK	50	0	20.93			22.0	1.0
10	16QAM	1	1	20.85				
10	16QAM	1	1	19.30				
10	256QAM	1	1	17.37			18.5	4.5
Channel								
461500								
Frequency (MHz)								
5	QPSK	1	1	21.94	21.94	21.89	23.0	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								
Frequency (MHz)								
40	Pi/2 BPSK	1	1	23.23	23.25	23.25	24.0	0.0
40	Pi/2 BPSK	1	108	23.21	23.23	23.17		
40	Pi/2 BPSK	1	214	23.12	23.15	23.20		
40	Pi/2 BPSK	108	0	22.64	22.70	22.88	23.5	0.5
40	Pi/2 BPSK	108	54	23.18	23.22	23.17	24.0	0.0
40	Pi/2 BPSK	108	108	22.85	22.82	22.83	23.5	0.5
40	Pi/2 BPSK	216	0	22.77	22.80	22.71	24.0	0.0
40	QPSK	1	1	23.25	23.27	23.24		
40	QPSK	1	108	23.21	23.25	23.14		
40	QPSK	1	214	23.11	23.18	23.12	23.0	1.0
40	QPSK	108	0	22.21	22.20	22.21		
40	QPSK	108	54	23.21	23.25	23.19		
40	QPSK	108	108	22.34	22.37	22.27	23.0	1.0
40	QPSK	216	0	22.18	22.23	22.21	23.0	1.0
40	16QAM	1	1	22.17	22.28	22.20		
40	16QAM	1	1	20.30	20.34	20.36		
40	256QAM	1	1	18.59	18.66	18.63	19.5	4.5
Channel								
345000								
Frequency (MHz)								
30	QPSK	1	1	23.13	23.25	23.16	24.0	0.0
Channel								
345000								
Frequency (MHz)								
25	QPSK	1	1	23.17	23.22	23.06	24.0	0.0
Channel								
344000								
Frequency (MHz)								
20	QPSK	1	1	22.89	23.02	23.00	24.0	0.0
Channel								
343500								
Frequency (MHz)								
15	QPSK	1	1	23.18	23.00	23.14	24.0	0.0
Channel								
343000								
Frequency (MHz)								
10	QPSK	1	1	23.23	23.13	22.98	24.0	0.0
Channel								
342500								
Frequency (MHz)								
5	QPSK	1	1	23.19	22.95	23.09	24.0	0.0

n66\_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
346000								
Frequency (MHz)								
40	Pi/2 BPSK	1	1	23.15	23.17	23.08	24.0	0.0
40	Pi/2 BPSK	1	108	23.14	23.14	22.99		
40	Pi/2 BPSK	1	214	22.83	23.12	22.88		
40	Pi/2 BPSK	108	0	22.50	22.62	22.48	23.5	0.5
40	Pi/2 BPSK	108	54	22.95	23.13	23.00	24.0	0.0
40	Pi/2 BPSK	108	108	23.15	22.86	22.67	23.5	0.5
40	Pi/2 BPSK	216	0	22.80	22.81	22.62	24.0	0.0
40	QPSK	1	1	23.16	23.19	23.08		
40	QPSK	1	108	23.15	23.18	22.78		
40	QPSK	1	214	23.14	23.09	22.86	23.0	1.0
40	QPSK	108	0	22.05	22.16	22.08		
40	QPSK	108	54	23.13	23.17	22.87		
40	QPSK	108	108	22.21	22.38	22.11	23.0	1.0
40	QPSK	216	0	22.21	22.25	22.13	23.0	1.0
40	16QAM	1	1	22.84	22.57	22.62		
40	16QAM	1	1	20.41	20.57	20.70		
40	256QAM	1	1	18.86	18.97	18.88	19.5	4.5
Channel								
345000								
Frequency (MHz)								
30	QPSK	1	1	23.15	23.13	22.84	24.0	0.0
Channel								
345000								
Frequency (MHz)								
25	QPSK	1	1	23.07	23.18	22.92	24.0	0.0
Channel								
344000								
Frequency (MHz)								
20	QPSK	1	1	23.17	23.11	22.98	24.0	0.0
Channel								
343500								
Frequency (MHz)								
15	QPSK	1	1	23.11	23.14	22.88	24.0	0.0
Channel								
343000								
Frequency (MHz)								
10	QPSK	1	1	23.01	23.14	22.98	24.0	0.0
Channel								
342500								
Frequency (MHz)								
5	QPSK	1	1	23.05	23.07	22.73	24.0	0.0



### n70\_Ant 1

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					
Frequency (MHz)					
15	1702.5	1702.5	1705		
15	23.27	23.23	23.23		
15	23.23	23.23	23.23	24.0	0.0
15	23.18	23.18	23.18		
15	22.81	22.81	22.81	23.5	0.5
15	22.21	22.21	22.21	24.0	0.0
15	22.71	22.71	22.71	23.5	0.5
15	22.85	22.85	22.85		
15	23.30	23.30	23.30		
15	23.22	23.22	23.22	24.0	0.0
15	23.16	23.16	23.16		
15	22.12	22.12	22.12	23.0	1.0
15	22.26	22.26	22.26	24.0	0.0
15	22.13	22.13	22.13	23.0	1.0
15	22.23	22.23	22.23		
15	22.25	22.25	22.25	23.0	1.0
15	20.87	20.87	20.87	21.5	2.5
15	19.87	19.87	19.87	19.5	4.5
Channel					
Frequency (MHz)					
10	23.15	23.18	23.06	24.0	0.0
Channel					
Frequency (MHz)					
5	23.02	23.26	22.98	24.0	0.0

### n70\_Ant 2

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					
Frequency (MHz)					
15	1702.5	1702.5	1705		
15	22.33	22.30	22.30		
15	22.30	22.30	22.30	24.0	0.0
15	22.26	22.26	22.26		
15	21.99	21.99	21.99	23.5	0.5
15	22.17	22.17	22.17	24.0	0.0
15	21.72	21.72	21.72	23.5	0.5
15	21.74	21.74	21.74		
15	22.35	22.35	22.35		
15	22.32	22.32	22.32	24.0	0.0
15	22.25	22.25	22.25		
15	21.14	21.14	21.14	23.0	1.0
15	22.32	22.32	22.32	24.0	0.0
15	21.24	21.24	21.24	23.0	1.0
15	21.10	21.10	21.10	23.0	1.0
15	20.00	20.00	20.00	21.5	2.5
15	17.92	17.92	17.92	19.5	4.5
Channel					
Frequency (MHz)					
10	22.31	22.26	22.18	24.0	0.0
Channel					
Frequency (MHz)					
5	22.07	22.29	22.09	24.0	0.0



n71_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				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI2 BPSK	1	1	22.72	22.75	22.78	24.0	0.0	
20	PI2 BPSK	1	53	22.71	22.65	22.75			
20	PI2 BPSK	1	104	22.73	22.80	22.80			
20	PI2 BPSK	50	0	21.67	22.28	22.15	23.5	0.5	
20	PI2 BPSK	50	28	22.72	22.74	22.78	24.0	0.0	
20	PI2 BPSK	50	56	21.79	22.14	22.42	23.5	0.5	
20	PI2 BPSK	100	0	21.76	22.22	22.27			
20	QPSK	1	1	22.75	22.84	22.75	24.0	0.0	
20	QPSK	1	53	22.66	22.68	22.65			
20	QPSK	1	104	22.71	22.79	22.74			
20	QPSK	50	0	21.65	21.76	21.73	23.0	1.0	
20	QPSK	50	28	22.73	22.81	22.74	24.0	0.0	
20	QPSK	50	56	21.57	21.66	21.68	23.0	1.0	
20	QPSK	100	0	21.69	21.77	21.76			
20	MSAM	1	1	21.60	21.65	21.67	23.0	1.0	
20	MSAM	1	1	20.29	20.35	20.38	21.5	2.5	
20	MSAM	1	1	17.90	17.95	17.98	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5	24.0	0.0	
15	QPSK	1	1	22.74	22.69	22.66	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				666	680.5	693			
10	QPSK	1	1	22.64	22.73	22.59	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.72	22.76	22.73	24.0	0.0	

n71_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				134600	136100	137600			
Frequency (MHz)				673	680.5	688			
20	PI2 BPSK	1	1	22.78	22.83	22.78	24.0	0.0	
20	PI2 BPSK	1	53	22.69	22.81	22.81			
20	PI2 BPSK	1	104	22.69	22.74	22.72			
20	PI2 BPSK	50	0	22.37	22.35	22.29	23.5	0.5	
20	PI2 BPSK	50	28	22.70	22.75	22.73	24.0	0.0	
20	PI2 BPSK	50	56	22.19	22.28	22.16	23.5	0.5	
20	PI2 BPSK	100	0	22.34	22.37	22.25			
20	QPSK	1	1	22.80	22.84	22.75	24.0	0.0	
20	QPSK	1	53	22.67	22.76	22.73			
20	QPSK	1	104	22.78	22.82	22.78			
20	QPSK	50	0	21.76	21.78	21.74	23.0	1.0	
20	QPSK	50	28	22.76	22.80	22.77	24.0	0.0	
20	QPSK	50	56	21.72	21.71	21.65	23.0	1.0	
20	QPSK	100	0	21.67	21.76	21.69			
20	MSAM	1	1	21.65	21.75	21.77	23.0	1.0	
20	MSAM	1	1	19.98	19.98	19.86	21.5	2.5	
20	MSAM	1	1	18.52	18.53	18.53	19.5	4.5	
Channel				134100	136100	138100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				670.5	680.5	690.5	24.0	0.0	
15	QPSK	1	1	22.78	22.76	22.80	24.0	0.0	
Channel				133600	136100	138600	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				666	680.5	693			
10	QPSK	1	1	22.67	22.68	22.71	24.0	0.0	
Channel				133100	136100	139100	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.71	22.82	22.67	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)				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	22.92	22.90	22.92		
40	PI2 BPSK	1	53	22.91	22.82	22.85		0.0
40	PI2 BPSK	1	104	22.90	22.83	22.82		0.5
40	PI2 BPSK	50	0	22.41	22.34	22.20	23.0	0.5
40	PI2 BPSK	50	28	22.86	22.81	22.77	24.0	0.0
40	PI2 BPSK	50	56	22.40	22.29	22.29	23.0	0.5
40	PI2 BPSK	100	0	22.48	22.39	22.36		
40	QPSK	1	1	22.98	22.98	22.85		
40	QPSK	1	83	22.89	22.88	22.82	24.0	0.0
40	QPSK	1	104	22.95	22.84	22.76		
40	QPSK	50	0	21.83	21.85	21.81		
40	QPSK	50	28	22.92	22.95	22.82	24.0	0.0
40	QPSK	50	56	21.86	21.84	21.80		
40	QPSK	100	0	21.87	21.86	21.80	23.0	1.0
40	16QAM	1	1	22.23	22.26	22.15	23.0	1.0
40	16QAM	1	1	20.82	20.58	20.60	21.5	2.5
40	256QAM	1	1	18.70	18.61	18.52	19.5	4.5
Channel								
Frequency (MHz)				517002	518000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	QPSK	1	1	22.80	22.71	22.80	24.0	0.0
Channel								
Frequency (MHz)				516204	518000	521498		
Frequency (MHz)				2582.52	2595	2607.48		
25	QPSK	1	1	22.73	22.82	22.93	24.0	0.0
Channel								
Frequency (MHz)				516000	519000	522000		
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	1	22.98	22.89	22.72	24.0	0.0
Channel								
Frequency (MHz)				515202	519000	523498		
Frequency (MHz)				2577.51	2595	2614.98		
15	QPSK	1	1	22.91	22.87	22.69	24.0	0.0
Channel								
Frequency (MHz)				515004	519000	522996		
Frequency (MHz)				2575.02	2595	2614.98		
10	QPSK	1	1	22.88	22.59	22.73	24.0	0.0

**n41\_Ant 0(FCC)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509202	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.96	22.80	22.55		
100	PI2 BPSK	1	137	22.51	22.59	22.52	24.0	0.0
100	PI2 BPSK	1	271	22.54	22.52	22.57		
100	PI2 BPSK	135	0	22.50	22.52	22.54	24.0	0.0
100	PI2 BPSK	135	69	22.55	22.54	22.59	24.0	0.0
100	PI2 BPSK	135	138	22.55	22.53	22.55	24.0	0.0
100	PI2 BPSK	270	0	22.57	22.60	22.61		
100	QPSK	1	1	22.55	22.62	22.56		
100	QPSK	1	137	22.54	22.55	22.49	24.0	0.0
100	QPSK	1	271	22.58	22.59	22.52		
100	QPSK	135	0	22.51	22.53	22.50		
100	QPSK	135	69	22.55	22.60	22.54	24.0	0.0
100	QPSK	135	138	22.50	22.53	22.52		
100	QPSK	270	0	22.48	22.57	22.50	24.0	0.0
100	16QAM	1	1	22.56	22.58	22.60	24.0	0.0
100	16QAM	1	1	22.53	22.58	22.58	24.0	0.0
100	256QAM	1	1	20.76	20.75	20.70	22.5	1.5
Channel								
Frequency (MHz)				508200	518998	528998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.24	22.42	22.49	24.0	0.0
Channel								
Frequency (MHz)				507204	518998	529998		
Frequency (MHz)				2638.02	2592.99	2648.99		
80	QPSK	1	1	22.16	22.26	22.45	24.0	0.0
Channel								
Frequency (MHz)				506202	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	22.17	22.31	22.39	24.0	0.0
Channel								
Frequency (MHz)				505200	518998	531998		
Frequency (MHz)				2526	2592.99	2665.98		
60	QPSK	1	1	22.34	22.52	22.45	24.0	0.0
Channel								
Frequency (MHz)				504204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.31	22.24	22.42	24.0	0.0
Channel								
Frequency (MHz)				503202	518998	534000		
Frequency (MHz)				2516.01	2592.99	2673.98		
40	QPSK	1	1	22.25	22.25	22.37	24.0	0.0
Channel								
Frequency (MHz)				502200	518998	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.38	22.30	22.54	24.0	0.0
Channel								
Frequency (MHz)				501204	518998	535998		
Frequency (MHz)				2506.02	2592.99	2683.99		
20	QPSK	1	1	22.16	22.14	22.36	24.0	0.0
Channel								
Frequency (MHz)				500700	518998	536998		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.14	22.46	22.52	24.0	0.0
Channel								
Frequency (MHz)				500202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	22.27	22.42	22.40	24.0	0.0

**n41(HPUE)\_Ant 0(FCC)**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509202	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	25.54	25.57	25.38		
100	PI2 BPSK	1	137	25.50	25.55	25.37	27.0	0.0
100	PI2 BPSK	1	271	25.47	25.56	25.36		
100	PI2 BPSK	135	0	25.02	25.00	24.88	26.5	0.5
100	PI2 BPSK	135	69	25.50	25.56	25.29	27.0	0.0
100	PI2 BPSK	135	138	24.97	25.01	24.95	26.5	0.5
100	PI2 BPSK	270	0	24.95	24.96	24.94		
100	QPSK	1	1	25.55	25.58	25.40		
100	QPSK	1	137	25.48	25.54	25.33	27.0	0.0
100	QPSK	1	271	25.38	25.45	25.30		
100	QPSK	135	0	24.33	24.54	24.33		
100	QPSK	135	69	25.02	25.55	25.36	27.0	0.0
100	QPSK	135	138	24.41	24.55	24.31		
100	QPSK	270	0	24.32	24.58	24.40	26.0	1.0
100	16QAM	1	1	24.31	24.46	24.35	26.0	1.0
100	16QAM	1	1	22.82	22.97	22.89	24.5	2.5
100	256QAM	1	1	20.70	20.81	20.71	22.5	4.5
Channel								
Frequency (MHz)				508200	518998	528998		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.28	25.22	25.15	27.0	0.0
Channel								
Frequency (MHz)				507204	518998	529998		
Frequency (MHz)				2536.02	2592.99	2648.99		
80	QPSK	1	1	25.34	25.30	25.20	27.0	0.0
Channel								
Frequency (MHz)				506202	518998	531000		
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	25.13	25.30	25.18	27.0	0.0
Channel								
Frequency (MHz)				505200	518998	531998		
Frequency (MHz)				2526	2592.99	2665.98		
60	QPSK	1	1	25.00	25.10	25.14	27.0	0.0
Channel								
Frequency (MHz)				504204	518998	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.16	25.16	25.22	27.0	0.0
Channel								
Frequency (MHz)				503202	518998	534000		
Frequency (MHz)				2516.01	2592.99	2673.98		
40	QPSK	1	1	25.24	25.46	25.29	27.0	0.0
Channel								
Frequency (MHz)				502200	518998	534998		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.44	25.20	25.09	27.0	0.0
Channel								
Frequency (MHz)				501204	518998	535998		
Frequency (MHz)				2506.02	2592.99	2683.99		
20	QPSK	1	1	25.35	25.32	25.12	27.0	0.0
Channel								
Frequency (MHz)				500700	518998	536998		
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	25.29	25.34	25.37	27.0	0.0
Channel								
Frequency (MHz)				500202	518998	537000		
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	25.44	25.44	25.15	27.0	0.0



**n41\_Ant 1(FCC)**

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.		
Channel								
509202				518598	528000			
Frequency (MHz)								
				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.95	22.96	22.89		
100	PI2 BPSK	1	137	22.81	22.80	22.78	24.0	0.0
100	PI2 BPSK	1	271	22.79	22.77	22.85	24.0	0.0
100	PI2 BPSK	135	0	22.73	22.88	22.87	24.0	0.0
100	PI2 BPSK	135	69	22.82	22.87	22.79	24.0	0.0
100	PI2 BPSK	135	138	22.72	22.74	22.69	24.0	0.0
100	PI2 BPSK	270	0	22.56	22.70	22.56		
100	QPSK	1	1	22.97	22.99	22.87		
100	QPSK	1	137	22.88	22.86	22.83	24.0	0.0
100	QPSK	1	271	22.86	22.74	22.75		
100	QPSK	135	0	22.73	22.88	22.81		
100	QPSK	135	69	22.84	22.96	22.85	24.0	0.0
100	QPSK	135	138	22.50	22.64	22.55		
100	QPSK	270	0	22.63	22.52	22.60	24.0	0.0
100	16QAM	1	1	22.97	22.96	22.91	24.0	0.0
100	64QAM	1	1	22.81	22.94	22.87	24.0	0.0
100	256QAM	1	1	21.24	21.34	21.23	22.5	1.5
Channel								
508200				518598	528996			
Frequency (MHz)								
				2541	2592.99	2644.98		
90	QPSK	1	1	22.72	22.83	22.89	24.0	0.0
Channel								
507204				518598	529998			
Frequency (MHz)								
				2538.02	2592.99	2648.99		
80	QPSK	1	1	22.56	22.81	22.61	24.0	0.0
Channel								
506202				518598	531000			
Frequency (MHz)								
				2531.01	2592.99	2655		
70	QPSK	1	1	22.71	22.71	22.82	24.0	0.0
Channel								
505200				518598	531996			
Frequency (MHz)								
				2528	2592.99	2659.98		
60	QPSK	1	1	22.65	22.56	22.70	24.0	0.0
Channel								
504204				518598	532998			
Frequency (MHz)								
				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.67	22.65	22.84	24.0	0.0
Channel								
503202				518598	534000			
Frequency (MHz)								
				2518.01	2592.99	2670		
40	QPSK	1	1	22.55	22.78	22.95	24.0	0.0
Channel								
502200				518598	534996			
Frequency (MHz)								
				2511	2592.99	2674.98		
30	QPSK	1	1	22.63	22.67	22.68	24.0	0.0
Channel								
501204				518598	535998			
Frequency (MHz)								
				2508.02	2592.99	2679.99		
20	QPSK	1	1	22.53	22.57	22.85	24.0	0.0
Channel								
500700				518598	536496			
Frequency (MHz)								
				2503.5	2592.99	2682.48		
15	QPSK	1	1	22.69	22.68	22.70	24.0	0.0
Channel								
500202				518598	537000			
Frequency (MHz)								
				2501.01	2592.99	2685		
10	QPSK	1	1	22.54	22.83	22.80	24.0	0.0

**n41(HPUe)\_Ant 1(FCC)**

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.		
Channel								
509202				518598	528000			
Frequency (MHz)								
				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	25.92	25.94	25.76		
100	PI2 BPSK	1	137	25.90	25.81	25.85	27.0	0.0
100	PI2 BPSK	1	271	25.91	25.76	25.73		
100	PI2 BPSK	135	0	25.51	25.39	25.12	28.5	0.5
100	PI2 BPSK	135	69	25.90	25.91	25.73	27.0	0.0
100	PI2 BPSK	135	138	25.47	25.20	25.14	28.5	0.5
100	PI2 BPSK	270	0	25.47	25.22	25.13		
100	QPSK	1	1	25.92	25.95	25.84		
100	QPSK	1	137	25.91	25.87	25.84	27.0	0.0
100	QPSK	1	271	25.89	25.75	25.84		
100	QPSK	135	0	24.97	24.88	24.79		
100	QPSK	135	69	25.90	25.92	25.81	27.0	0.0
100	QPSK	135	138	24.96	24.87	24.74	28.0	1.0
100	QPSK	270	0	24.91	24.84	24.73	28.0	1.0
100	16QAM	1	1	25.05	25.02	25.04	28.0	1.0
100	64QAM	1	1	23.31	23.44	23.28	24.5	2.5
100	256QAM	1	1	21.45	21.50	21.45	22.5	4.5
Channel								
508200				518598	528996			
Frequency (MHz)								
				2541	2592.99	2644.98		
90	QPSK	1	1	25.62	25.68	25.53	27.0	0.0
Channel								
507204				518598	529998			
Frequency (MHz)								
				2538.02	2592.99	2649.99		
80	QPSK	1	1	25.38	25.71	25.40	27.0	0.0
Channel								
506202				518598	531000			
Frequency (MHz)								
				2531.01	2592.99	2655		
70	QPSK	1	1	25.50	25.62	25.48	27.0	0.0
Channel								
505200				518598	531996			
Frequency (MHz)								
				2528	2592.99	2659.98		
60	QPSK	1	1	25.53	25.43	25.60	27.0	0.0
Channel								
504204				518598	532998			
Frequency (MHz)								
				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.52	25.65	25.38	27.0	0.0
Channel								
503202				518598	534000			
Frequency (MHz)								
				2518.01	2592.99	2670		
40	QPSK	1	1	25.87	25.44	25.57	27.0	0.0
Channel								
502200				518598	534996			
Frequency (MHz)								
				2511	2592.99	2674.98		
30	QPSK	1	1	25.62	25.47	25.40	27.0	0.0
Channel								
501204				518598	535998			
Frequency (MHz)								
				2508.02	2592.99	2679.99		
20	QPSK	1	1	25.56	25.47	25.26	27.0	0.0
Channel								
500700				518598	536496			
Frequency (MHz)								
				2503.5	2592.99	2682.48		
15	QPSK	1	1	25.55	25.73	25.80	27.0	0.0
Channel								
500202				518598	537000			
Frequency (MHz)								
				2501.01	2592.99	2685		
10	QPSK	1	1	25.36	25.64	25.36	27.0	0.0

**n41\_Ant 2(FCC)**

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.		
Channel								
509202				518598	528000			
Frequency (MHz)								
				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	22.84	22.84	22.75		
100	PI2 BPSK	1	137	22.80	22.80	22.70	24.0	0.0
100	PI2 BPSK	1	271	22.81	22.78	22.72		
100	PI2 BPSK	135	0	22.82	22.74	22.67	24.0	0.0
100	PI2 BPSK	135	69	22.82	22.83	22.74	24.0	0.0
100	PI2 BPSK	135	138	22.80	22.73	22.63	24.0	0.0
100	PI2 BPSK	270	0	22.78	22.75	22.78		
100	QPSK	1	1	22.88	22.88	22.80		
100	QPSK	1	137	22.82	22.78	22.79	24.0	0.0
100	QPSK	1	271	22.77	22.83	22.77		
100	QPSK	135	0	22.76	22.85	22.70		
100	QPSK	135	69	22.83	22.88	22.78	24.0	0.0
100	QPSK	135	138	22.82	22.71	22.72		
100	QPSK	270	0	22.80	22.84	22.78	24.0	0.0
100	16QAM	1	1	22.81	22.78	22.79	24.0	0.0
100	64QAM	1	1	22.76	22.79	22.71	24.0	0.0
100	256QAM	1	1	21.35	21.31	21.25	22.5	1.5
Channel								
508200				518598	528996			
Frequency (MHz)								
				2541	2592.99	2644.98		
90	QPSK	1	1	22.77	22.67	22.67	24.0	0.0
Channel								
507204				518598	529998			
Frequency (MHz)								
				2538.02	2592.99	2649.99		
80	QPSK	1	1	22.69	22.83	22.53	24.0	0.0
Channel								
506202				518598	531000			
Frequency (MHz)								
				2531.01	2592.99	2655		
70	QPSK	1	1	22.49	22.62	22.73	24.0	0.0
Channel								
505200				518598	531996			
Frequency (MHz)								
				2528	2592.99	2659.98		
60	QPSK	1	1	22.65	22.55	22.47	24.0	0.0
Channel								
504204				518598	532998			
Frequency (MHz)								
				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.74	22.86	22.82	24.0	



n41(HPUE)_Ant 2(FCC)								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid-High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509202	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	25.79	25.63	25.74		
100	PI/2 BPSK	1	137	25.72	25.77	25.71	27.0	0.0
100	PI/2 BPSK	1	271	25.74	25.74	25.70		
100	PI/2 BPSK	135	0	25.46	25.31	25.20	26.5	0.5
100	PI/2 BPSK	135	69	25.77	25.79	25.70	27.0	0.0
100	PI/2 BPSK	135	138	25.41	25.33	25.16	26.5	0.5
100	PI/2 BPSK	270	0	25.36	25.27	25.22		
100	QPSK	1	1	25.60	25.65	25.76		
100	QPSK	1	137	25.76	25.80	25.65	27.0	0.0
100	QPSK	1	271	25.72	25.83	25.75		
100	QPSK	135	0	24.69	24.85	24.63	27.0	0.0
100	QPSK	135	69	25.79	25.83	25.74		
100	QPSK	135	138	24.66	24.82	24.60	27.0	0.0
100	QPSK	270	0	24.69	24.64	24.63	26.0	1.0
100	16QAM	1	1	24.36	24.46	24.37	26.0	1.0
100	64QAM	1	1	23.19	23.32	23.12	24.5	2.5
100	256QAM	1	1	21.38	21.46	21.29	22.5	4.5
Channel								
Frequency (MHz)				508200	518998	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	25.66	25.73	25.78	27.0	0.0
Channel								
Frequency (MHz)				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	25.42	25.61	25.82	27.0	0.0
Channel								
Frequency (MHz)				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	25.62	25.68	25.55	27.0	0.0
Channel								
Frequency (MHz)				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2528.02	2592.99	2659.98		
60	QPSK	1	1	25.71	25.59	25.66	27.0	0.0
Channel								
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	25.47	25.69	25.55	27.0	0.0
Channel								
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	25.38	25.59	25.82	27.0	0.0
Channel								
Frequency (MHz)				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	25.42	25.70	25.84	27.0	0.0
Channel								
Frequency (MHz)				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2678.99		
20	QPSK	1	1	25.42	25.60	25.70	27.0	0.0
Channel								
Frequency (MHz)				500700	518998	536998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	25.67	25.46	25.81	27.0	0.0
Channel								
Frequency (MHz)				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	25.73	25.50	25.69	27.0	0.0

n41_Ant 4(FCC)								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid-High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509202	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	20.26	20.32	20.22		
100	PI/2 BPSK	1	137	20.22	20.20	20.16	21.0	0.0
100	PI/2 BPSK	1	271	20.14	20.27	20.04		
100	PI/2 BPSK	135	0	20.08	20.23	20.10	21.0	0.0
100	PI/2 BPSK	135	69	20.22	20.29	20.20	21.0	0.0
100	PI/2 BPSK	135	138	20.11	20.14	20.14	21.0	0.0
100	PI/2 BPSK	270	0	20.16	20.20	20.16		
100	QPSK	1	1	20.28	20.39	20.24		
100	QPSK	1	137	20.15	20.19	20.11	21.0	0.0
100	QPSK	1	271	20.20	20.28	20.15		
100	QPSK	135	0	20.20	20.22	20.07		
100	QPSK	135	69	20.26	20.36	20.21	21.0	0.0
100	QPSK	135	138	20.13	20.17	20.12		
100	QPSK	270	0	20.22	20.34	20.18	21.0	0.0
100	16QAM	1	1	20.14	20.30	20.17	21.0	0.0
100	64QAM	1	1	20.21	20.24	20.05	21.0	0.0
100	256QAM	1	1	20.07	20.23	20.09	21.0	0.0
Channel								
Frequency (MHz)				508200	518998	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	19.92	20.18	20.23	21.0	0.0
Channel								
Frequency (MHz)				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	19.84	20.23	20.28	21.0	0.0
Channel								
Frequency (MHz)				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	19.84	19.90	20.01	21.0	0.0
Channel								
Frequency (MHz)				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2528.02	2592.99	2659.98		
60	QPSK	1	1	19.89	19.97	20.19	21.0	0.0
Channel								
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	19.84	20.15	20.01	21.0	0.0
Channel								
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	19.89	20.18	20.10	21.0	0.0
Channel								
Frequency (MHz)				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	19.90	20.23	20.28	21.0	0.0
Channel								
Frequency (MHz)				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2678.99		
20	QPSK	1	1	19.85	20.08	20.25	21.0	0.0
Channel								
Frequency (MHz)				500700	518998	536998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2682.48		
15	QPSK	1	1	19.85	20.07	20.10	21.0	0.0
Channel								
Frequency (MHz)				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	QPSK	1	1	19.83	19.97	20.17	21.0	0.0

n41(HPUE)_Ant 4(FCC)								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid-High Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509202	518998	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.14	23.36	23.21		
100	PI/2 BPSK	1	137	23.04	22.87	23.00	24.0	0.0
100	PI/2 BPSK	1	271	23.07	23.21	23.14		
100	PI/2 BPSK	135	0	22.88	23.02	22.95	24.0	0.0
100	PI/2 BPSK	135	69	23.10	23.29	23.16	24.0	0.0
100	PI/2 BPSK	135	138	23.06	23.16	23.03	24.0	0.0
100	PI/2 BPSK	270	0	23.00	23.09	23.01		
100	QPSK	1	1	23.19	23.40	23.24		
100	QPSK	1	137	23.08	22.96	23.00	24.0	0.0
100	QPSK	1	271	23.11	23.13	23.16		
100	QPSK	135	0	23.00	22.83	23.08		
100	QPSK	135	69	23.17	23.37	23.21	24.0	0.0
100	QPSK	135	138	22.94	23.00	23.02		
100	QPSK	270	0	23.15	23.27	23.19	24.0	0.0
100	16QAM	1	1	22.82	22.96	22.86	24.0	0.0
100	64QAM	1	1	21.05	21.21	21.19	22.5	1.5
100	256QAM	1	1	19.97	20.24	20.18	21.0	3.0
Channel								
Frequency (MHz)				508200	518998	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	23.27	23.25	23.18	24.0	0.0
Channel								
Frequency (MHz)				507204	518998	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	QPSK	1	1	23.33	23.36	23.13	24.0	0.0
Channel								
Frequency (MHz)				506202	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	QPSK	1	1	23.09	23.32	23.35	24.0	0.0
Channel								
Frequency (MHz)				505200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2528.02	2592.99	2659.98		
60	QPSK	1	1	23.30	23.28	23.03	24.0	0.0
Channel								
Frequency (MHz)				504204	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	23.31	23.10	23.04	24.0	0.0
Channel								
Frequency (MHz)				503202	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	23.30	23.19	23.17	24.0	0.0
Channel								
Frequency (MHz)				502200	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	23.36	23.19	22.88	24.0	0





### Part96\_n48\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				638000	641666	645332		
Frequency (MHz)								
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	18.23	18.47	18.50		
40	PI2 BPSK	1	53	18.41	18.51	18.53	19.5	0.0
40	PI2 BPSK	1	104	18.59	18.52	18.16	19.5	0.0
40	PI2 BPSK	50	0	18.40	18.60	18.48	19.5	0.0
40	PI2 BPSK	50	28	18.51	18.66	18.49	19.5	0.0
40	PI2 BPSK	50	56	18.28	18.64	18.37	19.5	0.0
40	PI2 BPSK	100	0	18.17	18.44	18.14	19.5	0.0
40	QPSK	1	1	18.59	18.96	18.43		
40	QPSK	1	53	18.47	18.58	18.33	19.5	0.0
40	QPSK	1	104	18.58	18.49	18.27	19.5	0.0
40	QPSK	50	0	18.38	18.62	18.27	19.5	0.0
40	QPSK	50	28	18.57	18.64	18.40	19.5	0.0
40	QPSK	50	56	18.15	18.45	18.27	19.5	0.0
40	QPSK	100	0	18.33	18.53	18.50	19.5	0.0
40	16QAM	1	1	18.21	18.43	18.21	19.5	0.0
40	16QAM	1	1	18.54	18.53	18.28	19.5	0.0
40	256QAM	1	1	18.21	18.57	18.33	19.5	0.0
Channel								
				637868	641666	645686		
Frequency (MHz)								
				3565.02	3624.99	3684.99		
30	QPSK	1	1	18.16	18.42	18.33	19.5	0.0
Channel								
				637334	641666	646000		
Frequency (MHz)								
				3569.01	3624.99	3690		
20	QPSK	1	1	18.31	18.36	18.46	19.5	0.0
Channel								
				637168	641666	646186		
Frequency (MHz)								
				3557.52	3624.99	3692.49		
15	QPSK	1	1	18.41	18.64	18.17	19.5	0.0
Channel								
				637000	641666	646332		
Frequency (MHz)								
				3555	3624.99	3694.98		
10	QPSK	1	1	18.34	18.44	18.19	19.5	0.0

### Part96\_n48\_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								
				638000	641666	645332		
Frequency (MHz)								
				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	22.95	23.07	22.82		
40	PI2 BPSK	1	53	22.92	23.02	22.64	24.0	0.0
40	PI2 BPSK	1	104	22.88	22.98	22.63	24.0	0.0
40	PI2 BPSK	50	0	22.86	22.95	22.61	24.0	0.0
40	PI2 BPSK	50	28	22.93	23.05	22.79	24.0	0.0
40	PI2 BPSK	50	56	22.91	23.00	22.56	24.0	0.0
40	PI2 BPSK	100	0	22.90	23.02	22.77	24.0	0.0
40	QPSK	1	1	22.98	23.10	22.84		
40	QPSK	1	53	22.89	23.04	22.71	24.0	0.0
40	QPSK	1	104	22.80	23.00	22.67	24.0	0.0
40	QPSK	50	0	22.92	22.95	22.73	24.0	0.0
40	QPSK	50	28	22.96	23.07	22.81	24.0	0.0
40	QPSK	50	56	22.87	23.02	22.68	24.0	0.0
40	QPSK	100	0	22.84	23.05	22.78	24.0	0.0
40	16QAM	1	1	22.95	22.99	22.75	24.0	0.0
40	16QAM	1	1	21.13	21.28	21.02	22.5	1.5
40	256QAM	1	1	19.38	19.45	19.33	20.5	3.5
Channel								
				637868	641666	645686		
Frequency (MHz)								
				3565.02	3624.99	3684.99		
30	QPSK	1	1	22.94	22.97	22.95	24.0	0.0
Channel								
				637334	641666	646000		
Frequency (MHz)								
				3569.01	3624.99	3690		
20	QPSK	1	1	22.97	22.99	22.80	24.0	0.0
Channel								
				637168	641666	646186		
Frequency (MHz)								
				3557.52	3624.99	3692.49		
15	QPSK	1	1	22.94	22.88	22.93	24.0	0.0
Channel								
				637000	641666	646332		
Frequency (MHz)								
				3555	3624.99	3694.98		
10	QPSK	1	1	22.91	22.97	22.86	24.0	0.0

### Part27Q\_n77\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
				633000	633332	633666		
Frequency (MHz)								
				3495.98	3499.98	3504.98		
100	PI2 BPSK	1	1	17.67	17.67	17.67		
100	PI2 BPSK	1	137	17.71	17.71	17.71	18.5	0.0
100	PI2 BPSK	1	271	17.84	17.84	17.84	18.5	0.0
100	PI2 BPSK	135	0	17.68	17.68	17.68	18.5	0.0
100	PI2 BPSK	135	69	17.71	17.71	17.71	18.5	0.0
100	PI2 BPSK	135	138	17.61	17.61	17.61	18.5	0.0
100	PI2 BPSK	270	0	17.72	17.72	17.72	18.5	0.0
100	QPSK	1	1	17.73	17.73	17.73		
100	QPSK	1	137	17.81	17.81	17.81	18.5	0.0
100	QPSK	1	271	17.73	17.73	17.73	18.5	0.0
100	QPSK	135	0	17.68	17.68	17.68	18.5	0.0
100	QPSK	135	69	17.71	17.71	17.71	18.5	0.0
100	QPSK	135	138	17.62	17.62	17.62	18.5	0.0
100	QPSK	270	0	17.68	17.68	17.68	18.5	0.0
100	16QAM	1	1	17.72	17.72	17.72	18.5	0.0
100	16QAM	1	1	17.61	17.61	17.61	18.5	0.0
100	256QAM	1	1	17.55	17.55	17.55	18.5	0.0
Channel								
				633000	633332	633666		
Frequency (MHz)								
				3495	3499.98	3504.99		
90	QPSK	1	1	17.71	17.48	17.70	18.5	0.0
Channel								
				633666	633332	634000		
Frequency (MHz)								
				3490.02	3499.98	3510		
80	QPSK	1	1	17.72	17.29	17.45	18.5	0.0
Channel								
				633334	633332	634332		
Frequency (MHz)								
				3495.01	3499.98	3514.88		
70	QPSK	1	1	17.70	17.24	17.61	18.5	0.0
Channel								
				632000	633332	634666		
Frequency (MHz)								
				3490	3499.98	3519.99		
60	QPSK	1	1	17.83	17.52	17.54	18.5	0.0
Channel								
				631668	633332	635000		
Frequency (MHz)								
				3476.02	3499.98	3525		
50	QPSK	1	1	17.64	17.52	17.58	18.5	0.0
Channel								
				631334	633332	636332		
Frequency (MHz)								
				3470.01	3499.98	3529.98		
40	QPSK	1	1	17.66	17.21	17.64	18.5	0.0
Channel								
				631000	633332	636666		
Frequency (MHz)								
				3465	3499.98	3534.99		
30	QPSK	1	1	17.50	17.42	17.68	18.5	0.0
Channel								
				630834	633332	636998		
Frequency (MHz)								
				3460.01	3499.98	3539.98		
25	QPSK	1	1	17.44	17.35	17.50	18.5	0.0
Channel								
				630668	633332	637000		
Frequency (MHz)								
				3450.02	3499.98	3540		
20	QPSK	1	1	17.55	17.54	17.63	18.5	0.0
Channel								
				630500	633332	637166		
Frequency (MHz)								
				3457.5	3499.98	3542.49		
15	QPSK	1	1	17.48	17.29	17.42	18.5	0.0
Channel								
				630334	633332	636332		
Frequency (MHz)								
				3455.01	3499.98	3544.98		
10	PI2 BPSK	1	1	17.47	17.53	17.66	18.5	0.0



### Part27Q\_n77(HPUE)\_Ant 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	20.80				
100	PI2 BPSK	1	137	20.76			21.5	0.0
100	PI2 BPSK	1	271	20.76				
100	PI2 BPSK	135	0	20.71			21.5	0.0
100	PI2 BPSK	135	69	20.73			21.5	0.0
100	PI2 BPSK	135	138	20.76				
100	PI2 BPSK	270	0	20.67			21.5	0.0
100	QPSK	1	1	20.87			21.5	0.0
100	QPSK	1	137	20.80				
100	QPSK	1	271	20.80				
100	QPSK	135	0	20.71			21.5	0.0
100	QPSK	135	69	20.85				
100	QPSK	135	138	20.67				
100	QPSK	270	0	20.81			21.5	0.0
100	16QAM	1	1	20.80			21.5	0.0
100	64QAM	1	1	20.76			21.5	0.0
100	256QAM	1	1	20.50			21.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	20.82	20.76	20.80	21.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.45	20.73	20.66	21.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.39	20.72	20.70	21.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.58	20.83	20.64	21.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.58	20.81	20.57	21.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.58	20.50	20.65	21.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.66	20.72	20.68	21.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.41	20.84	20.66	21.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.43	20.82	20.70	21.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.58	20.82	20.67	21.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	20.67	20.77	20.61	21.5	0.0

### Part27O\_n77\_Ant 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.38	17.51	17.22		
100	PI2 BPSK	1	137	17.43	17.63	17.48	18.5	0.0
100	PI2 BPSK	1	271	17.52	17.63	17.52		
100	PI2 BPSK	135	0	17.34	17.54	17.38	18.5	0.0
100	PI2 BPSK	135	69	17.40	17.59	17.38	18.5	0.0
100	PI2 BPSK	135	138	17.33	17.52	17.42		
100	PI2 BPSK	270	0	17.44	17.57	17.45		
100	QPSK	1	1	17.56	17.67	17.52	18.5	0.0
100	QPSK	1	137	17.43	17.62	17.27		
100	QPSK	1	271	17.45	17.56	17.41		
100	QPSK	135	0	17.36	17.53	17.43		
100	QPSK	135	69	17.60	17.65	17.56	18.5	0.0
100	QPSK	135	138	17.37	17.51	17.38		
100	QPSK	270	0	17.40	17.63	17.50	18.5	0.0
100	16QAM	1	1	17.38	17.51	17.26	18.5	0.0
100	64QAM	1	1	17.30	17.45	17.35	18.5	0.0
100	256QAM	1	1	17.28	17.47	17.27	18.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.57	17.61	17.46	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.65	17.51	17.38	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.53	17.46	17.43	18.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.57	17.46	17.47	18.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.66	17.50	17.58	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.64	17.64	17.60	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.46	17.41	17.57	18.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	17.46	17.64	17.60	18.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.61	17.46	17.66	18.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	17.38	17.66	17.40	18.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	17.64	17.40	17.67	18.5	0.0

### Part27O\_n77(HPUE)\_Ant 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	20.22	20.46	20.44		
100	PI2 BPSK	1	137	20.56	20.66	20.54	21.5	0.0
100	PI2 BPSK	1	271	20.55	20.62	20.52		
100	PI2 BPSK	135	0	20.39	20.49	20.28	21.5	0.0
100	PI2 BPSK	135	69	20.51	20.62	20.52	21.5	0.0
100	PI2 BPSK	135	138	20.32	20.46	20.26		
100	PI2 BPSK	270	0	20.37	20.58	20.41	21.5	0.0
100	QPSK	1	1	20.56	20.68	20.52	21.5	0.0
100	QPSK	1	137	20.39	20.56	20.53		
100	QPSK	1	271	20.37	20.62	20.49		
100	QPSK	135	0	20.46	20.62	20.41		
100	QPSK	135	69	20.47	20.65	20.51	21.5	0.0
100	QPSK	135	138	20.40	20.57	20.36		
100	QPSK	270	0	20.42	20.63	20.50	21.5	0.0
100	16QAM	1	1	20.40	20.52	20.39	21.5	0.0
100	64QAM	1	1	20.29	20.45	20.35	21.5	0.0
100	256QAM	1	1	20.28	20.47	20.24	21.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.54	20.54	20.33	21.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.48	20.40	20.45	21.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.51	20.61	20.31	21.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	20.54	20.45	20.53	21.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.43	20.43	20.44	21.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.63	20.43	20.52	21.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	20.50	20.56	20.64	21.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.59	20.61	20.39	21.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	20.55	20.49	20.62	21.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	20.32	20.48	20.44	21.5	0.0



### Part27Q\_n78\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	3499.98	17.53			
100	Pl2 BPSK	1	137	17.29			18.5	0.0
100	Pl2 BPSK	1	271	17.62				
100	Pl2 BPSK	135	0	17.68			18.5	0.0
100	Pl2 BPSK	135	69	17.81			18.5	0.0
100	Pl2 BPSK	135	138	17.51			18.5	0.0
100	Pl2 BPSK	270	0	17.66				
100	QPSK	1	1	17.71				
100	QPSK	1	137	17.62			18.5	0.0
100	QPSK	1	271	17.68				
100	QPSK	135	0	17.58			18.5	0.0
100	QPSK	135	69	17.69			18.5	0.0
100	QPSK	135	138	17.57				
100	QPSK	270	0	17.67			18.5	0.0
100	16QAM	1	1	17.66			18.5	0.0
100	64QAM	1	1	17.58			18.5	0.0
100	256QAM	1	1	17.62			18.5	0.0
Channel								
Frequency (MHz)								
63000	63334	63668		63300	63634	63968	Tune-up limit (dBm)	MPR (dB)
3495	3500.01	3505.02						
90	QPSK	1	1	17.67	17.50	17.42	18.5	0.0
Channel								
Frequency (MHz)								
63000	63334	63668		63300	63634	63968	Tune-up limit (dBm)	MPR (dB)
3490.02	3500.01	3510						
80	QPSK	1	1	17.62	17.28	17.46	18.5	0.0
Channel								
Frequency (MHz)								
632334	633334	634334		63200	63300	63400	Tune-up limit (dBm)	MPR (dB)
3485.01	3500.01	3515.01						
70	QPSK	1	1	17.42	17.28	17.41	18.5	0.0
Channel								
Frequency (MHz)								
632000	633334	634668		63200	633334	634668	Tune-up limit (dBm)	MPR (dB)
3480	3500.01	3520.02						
60	QPSK	1	1	17.55	17.53	17.67	18.5	0.0
Channel								
Frequency (MHz)								
631668	633334	635000		631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
3475.02	3500.01	3525						
50	QPSK	1	1	17.43	17.40	17.34	18.5	0.0
Channel								
Frequency (MHz)								
631334	633332	635332		631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
3470.01	3499.98	3529.98						
40	QPSK	1	1	17.83	17.41	17.59	18.5	0.0
Channel								
Frequency (MHz)								
631000	633332	635666		631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
3465	3499.98	3534.99						
30	QPSK	1	1	17.88	17.45	17.41	18.5	0.0
Channel								
Frequency (MHz)								
630834	633332	635632		630834	633332	635632	Tune-up limit (dBm)	MPR (dB)
3460.21	3499.98	3534.48						
25	QPSK	1	1	17.81	17.43	17.41	18.5	0.0
Channel								
Frequency (MHz)								
630668	633332	636000		630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
3455.02	3499.98	3540						
20	QPSK	1	1	17.70	17.42	17.37	18.5	0.0
Channel								
Frequency (MHz)								
630500	633332	636166		630500	633332	636166	Tune-up limit (dBm)	MPR (dB)
3457.51	3499.98	3542.49						
15	QPSK	1	1	17.89	17.46	17.61	18.5	0.0
Channel								
Frequency (MHz)								
630334	633332	636332		630334	633332	636332	Tune-up limit (dBm)	MPR (dB)
3455.01	3499.98	3544.98						
10	Pl2 BPSK	1	1	17.88	17.55	17.36	18.5	0.0

### Part27Q\_n78\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	3750	17.22			
100	Pl2 BPSK	1	137	17.44			18.5	0.0
100	Pl2 BPSK	1	271	17.57				
100	Pl2 BPSK	135	0	17.42			18.5	0.0
100	Pl2 BPSK	135	69	17.57			18.5	0.0
100	Pl2 BPSK	135	138	17.42			18.5	0.0
100	Pl2 BPSK	270	0	17.53				
100	QPSK	1	1	17.61				
100	QPSK	1	137	17.57			18.5	0.0
100	QPSK	1	271	17.51				
100	QPSK	135	0	17.38			18.5	0.0
100	QPSK	135	69	17.57			18.5	0.0
100	QPSK	135	138	17.42				
100	QPSK	270	0	17.53			18.5	0.0
100	16QAM	1	1	17.22			18.5	0.0
100	64QAM	1	1	17.26			18.5	0.0
100	256QAM	1	1	17.40			18.5	0.0
Channel								
Frequency (MHz)								
648668	650000	650332		648668	650000	650332	Tune-up limit (dBm)	MPR (dB)
3745.02	3750	3754.98						
90	QPSK	1	1	17.45	17.59	17.44	18.5	0.0
Channel								
Frequency (MHz)								
648334	650000	650666		648334	650000	650666	Tune-up limit (dBm)	MPR (dB)
3740.01	3750	3759.99						
80	QPSK	1	1	17.46	17.50	17.29	18.5	0.0
Channel								
Frequency (MHz)								
649000	650000	651000		649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
3735	3750	3765						
70	QPSK	1	1	17.38	17.37	17.35	18.5	0.0
Channel								
Frequency (MHz)								
648668	650000	651332		648668	650000	651332	Tune-up limit (dBm)	MPR (dB)
3730.02	3750	3769.98						
60	QPSK	1	1	17.46	17.53	17.20	18.5	0.0
Channel								
Frequency (MHz)								
648334	650000	651666		648334	650000	651666	Tune-up limit (dBm)	MPR (dB)
3725.01	3750	3774.99						
50	QPSK	1	1	17.44	17.48	17.26	18.5	0.0
Channel								
Frequency (MHz)								
648000	650000	652000		648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
3720	3750	3780						
40	QPSK	1	1	17.27	17.52	17.17	18.5	0.0
Channel								
Frequency (MHz)								
647668	650000	652332		647668	650000	652332	Tune-up limit (dBm)	MPR (dB)
3715.02	3750	3784.98						
30	QPSK	1	1	17.20	17.48	17.34	18.5	0.0
Channel								
Frequency (MHz)								
647000	650000	652500		647000	650000	652500	Tune-up limit (dBm)	MPR (dB)
3710.01	3750	3789.99						
25	QPSK	1	1	17.17	17.60	17.16	18.5	0.0
Channel								
Frequency (MHz)								
647334	650000	652666		647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
3710.01	3750	3789.99						
20	QPSK	1	1	17.47	17.34	17.37	18.5	0.0
Channel								
Frequency (MHz)								
647166	650000	652832		647166	650000	652832	Tune-up limit (dBm)	MPR (dB)
3707.52	3750	3782.48						
15	QPSK	1	1	17.50	17.54	17.23	18.5	0.0
Channel								
Frequency (MHz)								
647000	650000	653000		647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
3705	3750	3795						
10	Pl2 BPSK	1	1	17.40	17.53	17.27	18.5	0.0

### Part27Q\_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	3499.98	22.98			
100	Pl2 BPSK	1	137	22.01			24.0	0.0
100	Pl2 BPSK	1	271	22.92				
100	Pl2 BPSK	135	0	22.02			24.0	0.0
100	Pl2 BPSK	135	69	22.06			24.0	0.0
100	Pl2 BPSK	135	138	22.91			24.0	0.0
100	Pl2 BPSK	270	0	22.04				
100	QPSK	1	1	22.08				
100	QPSK	1	137	22.98			24.0	0.0
100	QPSK	1	271	22.93				
100	QPSK	135	0	22.02			24.0	0.0
100	QPSK	135	69	22.05			24.0	0.0
100	QPSK	135	138	22.87				
100	QPSK	270	0	22.02			24.0	0.0
100	16QAM	1	1	22.02			24.0	0.0
100	64QAM	1	1	22.97			24.0	0.0
100	256QAM	1	1	21.66			22.5	1.5
Channel								
Frequency (MHz)								
639000	633332	639666		639000	633332	639666	Tune-up limit (dBm)	MPR (dB)
3495	3499.98	3504.99						
80	QPSK	1	1	22.81	22.89	22.76	24.0	0.0
Channel								
Frequency (MHz)								
632000	633332	634000		632000	633332	634000	Tune-up limit (dBm)	MPR (dB)
3490.02	3499.98	3510						
80	QPSK	1	1	23.01	22.72	22.74	24.0	0.0
Channel								
Frequency (MHz)								
632334	633332	634332		632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
3485.01	3499.98	3514.98						
70	QPSK	1	1	23.01	22.98	22.81	24.0	0.0
Channel								
Frequency (MHz)								
632000	633332	635000		632000	633332	635000	Tune-up limit (dBm)	MPR (dB)
3480	3499.98	3519.99						
60	QPSK	1	1	22.98	23.03	22.99	24.0	0.0
Channel								
Frequency (MHz)								
631668	633332	635000		631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
3475.02	3499.98	3525						
50	QPSK	1	1	23.01	22.72	22.83	24.0	0.0
Channel								
Frequency (MHz)								
631334	633332	635666		631334	633332	635666	Tune-up limit (dBm)	MPR (dB)
3470.01	3499.98	3529.98						
40	QPSK	1	1	23.05	22.77	22.89	24.0	0.0
Channel								
Frequency (MHz)								
631000	633332	635666		631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
3465	3499.98	3534.99						
30	QPSK	1	1	22.82	22.76	22.82	24.0	0.0
Channel								
Frequency (MHz)								
630834	633332	635832		630834	633332	635832	Tune-up limit (dBm)	MPR (dB)
3460.21	3499.98	3537.48						
25	QPSK	1	1	22.84	22.78	22.96	24.0	0.0
Channel								
Frequency (MHz)								
630668	633332	636000		630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
3455.02	3499.98	3540						
20	QPSK	1	1	22.88	22.74	22.76	24.0	0.0
Channel								
Frequency (MHz)								
630500	633332	636166		630500	633332	636166	Tune-up limit (dBm)	MPR (dB)
3457.51	3499.98	3542.49						
15	QPSK	1	1	22.89	22.85			



Part27Q_n77(HPUE)_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	3459.98	3459.98	3459.98				
100	Pi2 BPSK	1	137	25.27	25.27	25.27	27.0	0.0		
100	Pi2 BPSK	1	271	25.29	25.29	25.29				
100	Pi2 BPSK	135	0	24.74	24.74	24.74	26.5	0.5		
100	Pi2 BPSK	135	69	25.18	25.18	25.18	27.0	0.0		
100	Pi2 BPSK	135	138	24.82	24.82	24.82	26.5	0.5		
100	Pi2 BPSK	270	0	25.15	25.15	25.15				
100	QPSK	1	1	25.64	25.64	25.64	27.0	0.0		
100	QPSK	1	137	25.47	25.47	25.47				
100	QPSK	1	271	25.51	25.51	25.51				
100	QPSK	135	0	24.72	24.72	24.72	27.0	0.0		
100	QPSK	135	69	25.15	25.15	25.15				
100	QPSK	135	138	24.79	24.79	24.79				
100	QPSK	270	0	24.91	24.91	24.91	26.0	1.0		
100	16QAM	1	1	24.72	24.72	24.72	26.0	1.0		
100	64QAM	1	1	23.35	23.35	23.35	24.5	2.5		
100	256QAM	1	1	21.81	21.81	21.81	22.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3455	3459.98	3504.99	27.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3480.02	3489.98	3510	27.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	3485.01	3498.98	3514.98	27.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	3475.02	3499.98	3525	27.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	3470.01	3499.98	3530.98	27.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3465.02	3499.98	3535.98	27.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	3460.02	3499.98	3540.98	27.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	3455.01	3499.98	3545.98	27.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3450.01	3499.98	3550.98	27.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	3445.01	3499.98	3555.98	27.0	0.0		
Channel										
Frequency (MHz)										
10	Pi2 BPSK	1	1	3440.01	3499.98	3560.98	27.0	0.0		

Part27O_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	3750	3840	3930				
100	Pi2 BPSK	1	137	22.84	22.85	22.86	24.0	0.0		
100	Pi2 BPSK	1	271	22.88	22.87	22.89				
100	Pi2 BPSK	135	0	22.82	22.81	22.84	24.0	0.0		
100	Pi2 BPSK	135	69	22.85	22.84	22.82	24.0	0.0		
100	Pi2 BPSK	135	138	22.88	22.86	22.81	24.0	0.0		
100	Pi2 BPSK	270	0	22.92	22.94	22.91				
100	QPSK	1	1	23.02	23.13	23.11	24.0	0.0		
100	QPSK	1	137	22.88	22.89	22.77				
100	QPSK	1	271	23.00	23.10	23.06				
100	QPSK	135	0	22.70	22.81	22.85	24.0	0.0		
100	QPSK	135	69	23.00	23.10	23.08				
100	QPSK	135	138	22.84	22.87	22.89				
100	QPSK	270	0	22.97	23.08	23.03	24.0	0.0		
100	16QAM	1	1	22.68	22.74	22.63	24.0	0.0		
100	64QAM	1	1	22.57	22.53	22.47	24.0	0.0		
100	256QAM	1	1	21.35	21.38	21.28	22.5	1.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3745.02	3840	3934.98	24.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3840	3939.98	24.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	3735.01	3840	3945	24.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	3725.01	3840	3950.98	24.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	3720.02	3840	3956.98	24.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3715.02	3840	3962.98	24.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	3710.01	3840	3968.98	24.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	3705.01	3840	3974.98	24.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3700.01	3840	3980.98	24.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	3695.01	3840	3986.98	24.0	0.0		
Channel										
Frequency (MHz)										
10	Pi2 BPSK	1	1	3690.01	3840	3992.98	24.0	0.0		

Part27O_n77(HPUE)_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	3750	3840	3930				
100	Pi2 BPSK	1	137	25.43	25.50	25.37	27.0	0.0		
100	Pi2 BPSK	1	271	25.40	25.50	25.33				
100	Pi2 BPSK	135	0	25.06	25.11	24.96	26.5	0.5		
100	Pi2 BPSK	135	69	25.42	25.50	25.35	27.0	0.0		
100	Pi2 BPSK	135	138	24.89	24.96	24.98	26.5	0.5		
100	Pi2 BPSK	270	0	25.20	25.29	25.23				
100	QPSK	1	1	25.45	25.54	25.42	27.0	0.0		
100	QPSK	1	137	25.41	25.47	25.35				
100	QPSK	1	271	25.24	25.27	25.31				
100	QPSK	135	0	24.83	24.85	24.87	27.0	0.0		
100	QPSK	135	69	25.43	25.51	25.40				
100	QPSK	135	138	24.93	24.99	24.79				
100	QPSK	270	0	24.75	24.61	24.72	26.0	1.0		
100	16QAM	1	1	24.76	24.85	24.88	26.0	1.0		
100	64QAM	1	1	22.91	23.01	22.92	24.5	2.5		
100	256QAM	1	1	21.28	21.33	21.32	22.5	4.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3745.02	3840	3934.98	27.0	0.0		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3840	3939.98	27.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	3735.01	3840	3945	27.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	3725.01	3840	3950.98	27.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	3720.02	3840	3956.98	27.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3715.02	3840	3962.98	27.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	3710.01	3840	3968.98	27.0	0.0		
Channel										
Frequency (MHz)										
25	QPSK	1	1	3705.01	3840	3974.98	27.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	3700.01	3840	3980.98	27.0	0.0		
Channel										
Frequency (MHz)										
15	QPSK	1	1	3695.01	3840	3986.98	27.0	0.0		
Channel										
Frequency (MHz)										
10	Pi2 BPSK	1	1	3690.01	3840	3992.98	27.0	0.0		



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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 data for various modulation schemes like Pi/2 BPSK, QPSK, 16QAM, 256QAM.

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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 data for various modulation schemes like Pi/2 BPSK, QPSK, 16QAM, 256QAM.

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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 data for various modulation schemes like Pi/2 BPSK, QPSK, 16QAM, 256QAM.



Part27Q_n77(HPUE)_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	3499.98					
100	Pi2 BPSK	1	137	26.46			27.0	0.0	
100	Pi2 BPSK	1	271	26.41					
100	Pi2 BPSK	135	0	26.07			26.5	0.5	
100	Pi2 BPSK	135	69	26.43			27.0	0.0	
100	Pi2 BPSK	135	138	25.91			26.5	0.5	
100	Pi2 BPSK	270	0	25.95					
100	QPSK	1	1	26.47			27.0	0.0	
100	QPSK	1	137	26.42					
100	QPSK	1	271	26.34					
100	QPSK	135	0	25.51			27.0	0.0	
100	QPSK	135	69	26.44			27.0	0.0	
100	QPSK	135	138	25.37					
100	QPSK	270	0	25.42			26.0	1.0	
100	16QAM	1	1	25.51			26.0	1.0	
100	64QAM	1	1	23.88			24.5	2.5	
100	256QAM	1	1	21.93			22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	33900	63332	63866	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.84	26.22	26.28	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.72	25.95	26.08	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.91	26.29	26.22	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	25.79	26.22	26.24	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.78	26.17	26.23	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	25.84	26.26	26.15	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	26.02	26.10	26.22	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.82	26.05	26.18	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	25.86	26.05	26.20	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.85	26.02	26.15	27.0	0.0	
Channel									
Frequency (MHz)									
10	Pi2 BPSK	1	1	25.93	25.94	26.35	27.0	0.0	

Part27Q_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	3750	3840	3930			
100	Pi2 BPSK	1	137	22.96	22.99	22.92	24.0	0.0	
100	Pi2 BPSK	1	271	23.03	23.04	22.94			
100	Pi2 BPSK	135	0	23.03	23.00	22.93	24.0	0.0	
100	Pi2 BPSK	135	69	23.02	23.02	22.96	24.0	0.0	
100	Pi2 BPSK	135	138	22.90	22.95	22.89	24.0	0.0	
100	Pi2 BPSK	270	0	23.02	23.00	22.92			
100	QPSK	1	1	23.06	23.13	22.99	24.0	0.0	
100	QPSK	1	137	22.83	22.89	22.87			
100	QPSK	1	271	23.04	23.04	22.97			
100	QPSK	135	0	22.83	22.87	22.77	24.0	0.0	
100	QPSK	135	69	23.03	23.10	22.95	24.0	0.0	
100	QPSK	135	138	22.91	22.98	22.87			
100	QPSK	270	0	22.93	23.08	22.91	24.0	0.0	
100	16QAM	1	1	22.55	22.64	22.82	24.0	0.0	
100	64QAM	1	1	22.81	22.91	22.81	24.0	0.0	
100	256QAM	1	1	21.54	21.52	21.50	22.5	1.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65600	66232	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.97	23.11	22.85	24.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.96	23.01	22.97	24.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.93	23.10	22.90	24.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.01	23.09	23.00	24.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.01	23.03	22.89	24.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.09	23.04	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.04	23.09	23.01	24.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	23.00	23.06	22.94	24.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.05	23.05	22.88	24.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.06	23.02	22.93	24.0	0.0	
Channel									
Frequency (MHz)									
10	Pi2 BPSK	1	1	23.06	23.12	22.91	24.0	0.0	

Part27Q_n77(HPUE)_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	3750	3840	3930			
100	Pi2 BPSK	1	137	25.98	26.03	25.91	27.0	0.0	
100	Pi2 BPSK	1	271	25.98	25.97	25.92			
100	Pi2 BPSK	135	0	25.36	25.46	25.35	26.5	0.5	
100	Pi2 BPSK	135	69	25.92	26.01	25.89	27.0	0.0	
100	Pi2 BPSK	135	138	25.49	25.45	25.43	26.5	0.5	
100	Pi2 BPSK	270	0	25.42	25.44	25.47			
100	QPSK	1	1	25.04	26.07	25.98	27.0	0.0	
100	QPSK	1	137	25.95	25.98	25.95			
100	QPSK	1	271	25.99	25.99	25.92			
100	QPSK	135	0	24.96	24.93	24.89	27.0	0.0	
100	QPSK	135	69	26.00	26.04	25.95	27.0	0.0	
100	QPSK	135	138	24.84	24.87	24.84			
100	QPSK	270	0	24.88	25.01	24.92	26.0	1.0	
100	16QAM	1	1	24.72	24.68	24.60	26.0	1.0	
100	64QAM	1	1	23.12	23.24	23.13	24.5	2.5	
100	256QAM	1	1	22.38	22.48	22.45	22.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	64968	65600	66232	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
90	QPSK	1	1	25.92	26.03	25.86	27.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	25.93	26.04	26.01	27.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	25.92	25.98	25.92	27.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	26.01	25.97	25.91	27.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	25.99	25.95	25.98	27.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	26.00	26.03	25.98	27.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	25.95	25.98	25.95	27.0	0.0	
Channel									
Frequency (MHz)									
25	QPSK	1	1	25.97	25.95	25.96	27.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	26.03	26.00	25.98	27.0	0.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	25.91	25.99	25.89	27.0	0.0	
Channel									
Frequency (MHz)									
10	Pi2 BPSK	1	1	25.97	25.96	25.87	27.0	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	PV2 BPSK	1	1	23.15			24.0	0.0
100	PV2 BPSK	1	137	23.12			24.0	0.0
100	PV2 BPSK	1	271	22.91			23.5	0.5
100	PV2 BPSK	135	0	22.68			24.0	0.0
100	PV2 BPSK	135	69	23.13			24.0	0.0
100	PV2 BPSK	135	138	22.49			23.5	0.5
100	PV2 BPSK	270	0	22.60			24.0	0.0
100	QPSK	1	1	23.17			24.0	0.0
100	QPSK	1	137	23.01			24.0	0.0
100	QPSK	1	271	22.85			24.0	0.0
100	QPSK	135	0	22.17			24.0	0.0
100	QPSK	135	69	23.15			24.0	0.0
100	QPSK	135	138	22.01			23.0	1.0
100	QPSK	270	0	22.11			21.5	2.5
100	16QAM	1	1	20.47			19.5	4.5
100	256QAM	1	1	18.69				
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3500.01	3505.02	(dBm)	(dB)
90	QPSK	1	1	23.07	23.15	23.10	24.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	23.05	23.04	23.07	24.0	0.0
Channel				632334	633334	634334	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	23.01	23.03	23.05	24.0	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480.02	3500.01	3510	(dBm)	(dB)
60	QPSK	1	1	22.91	22.99	22.94	24.0	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3525	(dBm)	(dB)
50	QPSK	1	1	22.83	23.12	22.98	24.0	0.0
Channel				631334	633334	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3520.02	(dBm)	(dB)
40	QPSK	1	1	23.00	23.10	22.99	24.0	0.0
Channel				631000	633332	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3534.99	(dBm)	(dB)
30	QPSK	1	1	23.03	22.96	22.94	24.0	0.0
Channel				630668	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)
25	QPSK	1	1	23.08	23.04	23.00	24.0	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3455.01	3499.98	3545.98	(dBm)	(dB)
20	QPSK	1	1	22.92	23.01	23.04	24.0	0.0
Channel				630000	633332	636668	Tune-up limit	MPR
Frequency (MHz)				3450.01	3499.98	3540.98	(dBm)	(dB)
15	QPSK	1	1	23.00	23.13	23.10	24.0	0.0
Channel				630000	633332	636668	Tune-up limit	MPR
Frequency (MHz)				3450.01	3499.98	3540.98	(dBm)	(dB)
10	PV2 BPSK	1	1	22.95	23.07	22.95	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	PV2 BPSK	1	1	23.08			24.0	0.0
100	PV2 BPSK	1	137	23.09			24.0	0.0
100	PV2 BPSK	1	271	22.94			23.5	0.5
100	PV2 BPSK	135	0	22.67			24.0	0.0
100	PV2 BPSK	135	69	23.08			24.0	0.0
100	PV2 BPSK	135	138	22.47			23.5	0.5
100	PV2 BPSK	270	0	22.54			24.0	0.0
100	QPSK	1	1	23.12			24.0	0.0
100	QPSK	1	137	23.10			24.0	0.0
100	QPSK	1	271	22.92			24.0	0.0
100	QPSK	135	0	22.16			24.0	0.0
100	QPSK	135	69	23.10			24.0	0.0
100	QPSK	135	138	22.00			23.0	1.0
100	QPSK	270	0	22.08			21.5	2.5
100	16QAM	1	1	20.77			19.5	4.5
100	256QAM	1	1	19.27				
Channel				649668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)
90	QPSK	1	1	23.03	23.08	23.07	24.0	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)
80	QPSK	1	1	23.00	23.07	23.04	24.0	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	QPSK	1	1	22.86	23.02	23.05	24.0	0.0
Channel				648668	650000	651332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3769.99	(dBm)	(dB)
60	QPSK	1	1	22.98	23.07	22.91	24.0	0.0
Channel				648334	650000	651668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)
50	QPSK	1	1	22.86	23.07	22.95	24.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	22.89	23.03	22.99	24.0	0.0
Channel				647668	650000	652332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750	3784.98	(dBm)	(dB)
30	QPSK	1	1	22.86	23.06	22.99	24.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3789.98	(dBm)	(dB)
25	QPSK	1	1	22.99	23.09	23.02	24.0	0.0
Channel				647000	650000	652999	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
20	QPSK	1	1	23.03	22.99	22.90	24.0	0.0
Channel				646668	650000	653332	Tune-up limit	MPR
Frequency (MHz)				3700.02	3750	3790.98	(dBm)	(dB)
15	QPSK	1	1	22.94	23.10	22.90	24.0	0.0
Channel				647000	650000	653000	Tune-up limit	MPR
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)
10	PV2 BPSK	1	1	22.93	23.08	23.06	24.0	0.0

**Part27Q\_n77\_Ant 9**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PV2 BPSK	1	1	16.63			17.5	0.0
100	PV2 BPSK	1	137	16.58			17.5	0.0
100	PV2 BPSK	1	271	16.61			17.5	0.0
100	PV2 BPSK	135	0	16.53			17.5	0.0
100	PV2 BPSK	135	69	16.40			17.5	0.0
100	PV2 BPSK	135	138	16.52			17.5	0.0
100	PV2 BPSK	270	0	16.61			17.5	0.0
100	QPSK	1	1	16.75			17.5	0.0
100	QPSK	1	137	16.69			17.5	0.0
100	QPSK	1	271	16.42			17.5	0.0
100	QPSK	135	0	16.57			17.5	0.0
100	QPSK	135	69	16.73			17.5	0.0
100	QPSK	135	138	16.45			17.5	0.0
100	QPSK	270	0	16.70			17.5	0.0
100	16QAM	1	1	16.41			17.5	0.0
100	64QAM	1	1	16.54			17.5	0.0
100	256QAM	1	1	16.70			17.5	0.0
Channel				633000	633332	633668	Tune-up limit	MPR
Frequency (MHz)				3495	3499.98	3504.99	(dBm)	(dB)
90	QPSK	1	1	16.65	16.71	16.61	17.5	0.0
Channel				632668	633332	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3499.98	3510	(dBm)	(dB)
80	QPSK	1	1	16.50	16.51	16.50	17.5	0.0
Channel				632334	633332	634332	Tune-up limit	MPR
Frequency (MHz)				3485.01	3499.98	3514.98	(dBm)	(dB)
70	QPSK	1	1	16.45	16.49	16.65	17.5	0.0
Channel				632000	633332	634668	Tune-up limit	MPR
Frequency (MHz)				3480.02	3499.98	3519.98	(dBm)	(dB)
60	QPSK	1	1	16.73	16.62	16.62	17.5	0.0
Channel				631668	633332	635000	Tune-up limit	MPR
Frequency (MHz)				3475.02	3499.98	3525	(dBm)	(dB)
50	QPSK	1	1	16.51	16.62	16.44	17.5	0.0
Channel				631334	633332	635332	Tune-up limit	MPR
Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)	(dB)
40	QPSK	1	1	16.63	16.51	16.66	17.5	0.0
Channel				631000	633332	635668	Tune-up limit	MPR
Frequency (MHz)				3465	3499.98	3534.98	(dBm)	(dB)
30	QPSK	1	1	16.44	16.66	16.50	17.5	0.0
Channel				630668	633332	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3499.98	3540	(dBm)	(dB)
25	QPSK	1	1	16.66	16.50	16.80	17.5	0.0
Channel				630334	633332	636332	Tune-up limit	MPR
Frequency (MHz)				3455.01	3499.98	3545.98	(dBm)	(dB)
20	QPSK	1	1	16.63	16.69	16.46	17.5	0.0
Channel				630000	633332	636668	Tune-up limit	MPR
Frequency (MHz)				3450.01	3499.98	3540.98	(dBm)	(dB)
15	QPSK	1	1	16.67	16.73	16.46	17.5	0.0
Channel				630000	633332	636668	Tune-up limit	MPR
Frequency (MHz)				3455.01	3499.98	3545.98	(dBm)	(dB)
10	PV2 BPSK	1	1	16.55	16.68	16.68	17.5	0.0



### Part27Q\_n77(HPUE)\_Ant 9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	19.60	19.60		20.5	0.0
100	Pi/2 BPSK	1	137	19.54	19.60			
100	Pi/2 BPSK	1	271	19.60				
100	Pi/2 BPSK	135	0	19.72			20.5	0.0
100	Pi/2 BPSK	135	69	19.72			20.5	0.0
100	Pi/2 BPSK	135	138	19.58			20.5	0.0
100	Pi/2 BPSK	270	0	19.62				
100	QPSK	1	1	19.41			20.5	0.0
100	QPSK	1	137	19.62				
100	QPSK	1	271	19.65				
100	QPSK	135	0	19.77				
100	QPSK	135	69	19.46			20.5	0.0
100	QPSK	135	138	19.52				
100	QPSK	270	0	19.75			20.5	0.0
100	16QAM	1	1	19.74			20.5	0.0
100	64QAM	1	1	19.52			20.5	0.0
100	256QAM	1	1	19.69			20.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.71	19.72	19.76	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.59	19.47	19.80	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.74	19.48	19.68	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.78	19.46	19.78	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.71	19.50	19.78	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.71	19.57	19.59	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.54	19.78	19.81	20.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	19.75	19.47	19.88	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.73	19.70	19.70	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	19.63	19.75	19.55	20.5	0.0
Channel								
Frequency (MHz)								
10	Pi/2 BPSK	1	1	19.62	19.64	19.61	20.5	0.0

### Part27O\_n77\_Ant 9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	16.05	16.09	16.30	17.5	0.0
100	Pi/2 BPSK	1	137	15.85	16.22	16.00		
100	Pi/2 BPSK	1	271	16.20	16.35	16.16		
100	Pi/2 BPSK	135	0	16.08	16.20	16.05	17.5	0.0
100	Pi/2 BPSK	135	69	15.89	16.01	15.90	17.5	0.0
100	Pi/2 BPSK	135	138	15.83	16.04	15.90	17.5	0.0
100	Pi/2 BPSK	270	0	15.99	16.21	15.99		
100	QPSK	1	1	16.20	16.38	16.17	17.5	0.0
100	QPSK	1	137	16.16	16.24	16.08		
100	QPSK	1	271	15.87	16.10	15.88		
100	QPSK	135	0	15.89	16.09	15.90		
100	QPSK	135	69	16.10	16.34	16.16	17.5	0.0
100	QPSK	135	138	15.99	16.21	16.04		
100	QPSK	270	0	16.17	16.31	16.14	17.5	0.0
100	16QAM	1	1	16.14	16.16	16.04	17.5	0.0
100	64QAM	1	1	15.86	16.27	15.97	17.5	0.0
100	256QAM	1	1	16.02	16.35	16.28	17.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.19	16.23	16.19	17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.05	16.34	16.24	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.07	16.15	16.17	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.26	16.26	16.24	17.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.09	16.22	16.19	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.04	16.28	16.22	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.99	16.21	16.09	17.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	16.10	16.30	16.30	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.05	16.10	16.20	17.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.24	16.27	16.15	17.5	0.0
Channel								
Frequency (MHz)								
10	Pi/2 BPSK	1	1	16.01	16.34	15.99	17.5	0.0

### Part27O\_n77(HPUE)\_Ant 9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid-High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	16.71	16.98	16.94	20.5	0.0
100	Pi/2 BPSK	1	137	16.91	16.84	16.76		
100	Pi/2 BPSK	1	271	16.95	16.09	16.70		
100	Pi/2 BPSK	135	0	16.93	16.19	16.85	20.5	0.0
100	Pi/2 BPSK	135	69	16.79	16.93	16.84	20.5	0.0
100	Pi/2 BPSK	135	138	16.94	16.10	16.72	20.5	0.0
100	Pi/2 BPSK	270	0	16.97	16.16	16.78		
100	QPSK	1	1	16.77	16.26	16.16	20.5	0.0
100	QPSK	1	137	16.81	16.10	16.84		
100	QPSK	1	271	16.84	16.10	16.86		
100	QPSK	135	0	16.97	16.17	16.84		
100	QPSK	135	69	16.99	16.22	16.91	20.5	0.0
100	QPSK	135	138	16.81	16.14	16.88		
100	QPSK	270	0	16.85	16.20	16.86	20.5	0.0
100	16QAM	1	1	16.91	16.20	16.73	20.5	0.0
100	64QAM	1	1	16.88	16.02	16.70	20.5	0.0
100	256QAM	1	1	16.84	16.93	16.67	20.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.06	16.05	16.01	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.90	16.01	16.89	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.03	16.98	16.00	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.98	16.21	16.10	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.00	16.99	16.88	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.99	16.02	16.14	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.10	16.15	16.06	20.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	16.97	16.10	16.03	20.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.91	16.04	16.00	20.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.13	16.12	16.98	20.5	0.0
Channel								
Frequency (MHz)								
10	Pi/2 BPSK	1	1	16.21	16.12	16.92	20.5	0.0





### Part27Q\_n78\_Ant 9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	16.42				
100	Pi2 BPSK	1	137	16.38			17.5	0.0
100	Pi2 BPSK	1	271	16.39				
100	Pi2 BPSK	135	0	16.35			17.5	0.0
100	Pi2 BPSK	135	69	16.26			17.5	0.0
100	Pi2 BPSK	135	138	16.27			17.5	0.0
100	Pi2 BPSK	270	0	16.42				
100	QPSK	1	1	16.58			17.5	0.0
100	QPSK	1	137	16.44				
100	QPSK	1	271	16.22				
100	QPSK	135	0	16.32			17.5	0.0
100	QPSK	135	69	16.54				
100	QPSK	135	138	16.32				
100	QPSK	270	0	16.44			17.5	0.0
100	16QAM	1	1	16.36			17.5	0.0
100	16QAM	1	1	16.15			17.5	0.0
100	256QAM	1	1	16.45			17.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.55	16.36	16.48	17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.31	16.30	16.42	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.41	16.11	16.48	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.49	16.11	16.21	17.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.50	16.38	16.43	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.31	16.38	16.20	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.51	16.24	16.35	17.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	16.43	16.35	16.27	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.58	16.15	16.49	17.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.33	16.22	16.52	17.5	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	16.48	16.24	16.54	17.5	0.0

### Part27O\_n78\_Ant 9

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	16.05				
100	Pi2 BPSK	1	137	15.99			17.5	0.0
100	Pi2 BPSK	1	271	16.14				
100	Pi2 BPSK	135	0	16.00			17.5	0.0
100	Pi2 BPSK	135	69	15.76			17.5	0.0
100	Pi2 BPSK	135	138	15.92			17.5	0.0
100	Pi2 BPSK	270	0	16.05				
100	QPSK	1	1	16.21			17.5	0.0
100	QPSK	1	137	15.96				
100	QPSK	1	271	15.88				
100	QPSK	135	0	15.94			17.5	0.0
100	QPSK	135	69	16.18				
100	QPSK	135	138	16.06				
100	QPSK	270	0	16.15			17.5	0.0
100	16QAM	1	1	15.96			17.5	0.0
100	16QAM	1	1	16.15			17.5	0.0
100	256QAM	1	1	16.04			17.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.19	16.11	16.17	17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.19	15.86	16.19	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.10	15.90	16.07	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.11	16.17	16.18	17.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.91	16.07	16.08	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.10	16.02	16.04	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.21	16.03	16.11	17.5	0.0
Channel								
Frequency (MHz)								
25	QPSK	1	1	15.98	16.04	16.12	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.16	16.03	15.93	17.5	0.0
Channel								
Frequency (MHz)								
15	QPSK	1	1	16.06	15.97	15.99	17.5	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	16.20	15.83	16.17	17.5	0.0



**Default Power**

BT 2.0		Ant 4										Tune-up Limit
Mode	Channel	Frequency (MHz)	Average power (dBm)									
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	12.66	12.70	12.72	11.77	11.35	11.32	11.81	11.40	11.36	14.50
	CH 39	2441	13.65	13.74	13.82	13.25	13.17	13.10	13.40	13.05	12.93	
	CH 78	2480	12.63	12.78	12.82	11.61	11.32	11.25	11.70	11.60	11.56	
	Tune-up Limit											

BT 4.0		Average power (dBm)	
Mode	Channel	Frequency (MHz)	GF5K
LE	CH 00	2402	12.36
	CH 19	2440	13.97
	CH 39	2480	12.49
	Tune-up Limit		14.00

BT 5.0		Average power (dBm)			
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	
LE	CH 00	2402	12.36	12.44	
	CH 19	2440	13.67	13.79	
	CH 39	2480	12.49	12.73	
	Tune-up Limit		14.00		

BT 2.0		Ant 6										Tune-up Limit
Mode	Channel	Frequency (MHz)	Average power (dBm)									
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	12.49	12.54	12.76	11.41	11.12	10.98	11.19	10.98	10.95	14.50
	CH 39	2441	13.69	13.76	13.83	11.58	11.41	11.39	11.60	11.56	11.49	
	CH 78	2480	12.98	13.01	13.19	11.32	11.08	11.03	11.00	10.86	10.83	
	Tune-up Limit											

BT 4.0		Average power (dBm)	
Mode	Channel	Frequency (MHz)	GF5K
LE	CH 00	2402	12.57
	CH 19	2440	13.40
	CH 39	2480	12.78
	Tune-up Limit		14.00

BT 5.0		Average power (dBm)			
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	
LE	CH 00	2402	12.57	12.58	
	CH 19	2440	13.40	13.44	
	CH 39	2480	12.78	12.89	
	Tune-up Limit		14.00		

**Rec on Sim & Hotspot on & Body-worn Sim**

BT 2.0		Ant 4										Tune-up Limit
Mode	Channel	Frequency (MHz)	Average power (dBm)									
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	8.70	8.70	8.80	5.00	5.00	5.10	5.10	5.20	10.00	
	CH 39	2441	9.30	9.30	9.48	5.50	5.60	5.70	5.70	5.80		
	CH 78	2480	7.70	7.70	8.00	3.60	3.60	3.70	3.70	3.80		
	Tune-up Limit											

BT 4.0		Average power (dBm)	
Mode	Channel	Frequency (MHz)	GF5K
LE	CH 00	2402	8.60
	CH 19	2440	9.40
	CH 39	2480	7.70
	Tune-up Limit		10.00

BT 5.0		Average power (dBm)			
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	
LE	CH 00	2402	8.60	8.70	
	CH 19	2440	9.40	9.50	
	CH 39	2480	7.70	7.80	
	Tune-up Limit		10.00		

BT 2.0		Ant 6										Tune-up Limit
Mode	Channel	Frequency (MHz)	Average power (dBm)									
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	11.90	11.90	12.00	12.40	12.40	12.50	12.50	12.50	12.60	13.50
	CH 39	2441	12.70	12.70	12.80	13.10	13.10	13.20	13.20	13.20	13.30	
	CH 78	2480	12.30	12.30	12.40	12.60	12.60	12.70	12.70	12.70	12.80	
	Tune-up Limit											

BT 4.0		Average power (dBm)	
Mode	Channel	Frequency (MHz)	GF5K
LE	CH 00	2402	11.90
	CH 19	2440	12.80
	CH 39	2480	12.30
	Tune-up Limit		13.50

BT 5.0		Average power (dBm)			
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	
LE	CH 00	2402	11.90	12.00	
	CH 19	2440	12.80	12.80	
	CH 39	2480	12.40	21.30	
	Tune-up Limit		13.50		



