



Annex A

Output Power



Output Power for 10dBi gain PtoMP antennas

Bandwidth	Frequency	Data Rate	TP	J3 Level	J4 Level	J3 Level	J4 Level	Total Summed Power	Limit	Margin
MHz	MHz			dBm	dBm	mW	mW	dBm	dBm	dB
10	5735	6	18	14.1	16.4	25.7	43.7	18.4	26	-7.6
10	5800	6	20	17.3	17.9	53.7	61.7	20.6	26	-5.4
10	5840	6	19	16.6	16.3	45.9	42.7	19.5	26	-6.5
20	5740	6	16	12.3	15.6	17.0	36.3	17.3	26	-8.7
20	5800	6	20	15.8	17.4	37.8	55.0	19.7	26	-6.3
20	5835	6	16	11.9	15.2	15.5	33.1	16.9	26	-9.1
30	5745	6	14	11.3	12.6	13.5	18.2	15.0	26	-11.0
30	5800	6	20	16.7	16.4	46.8	43.7	19.6	26	-6.4
30	5830	6	15	12.4	14.6	17.4	28.8	16.6	26	-9.4
40	5750	f0	14	9.1	11.1	8.1	12.9	13.2	26	-12.8
40	5800	f0	20	15.3	15.8	33.9	38.0	18.6	26	-7.4
40	5825	f0	16	12.3	14.2	17.0	26.3	16.4	26	-9.6

Output Power for 13dBi gain PtoMP antennas

Bandwidth	Frequency	Data Rate	J3 Level	J4 Level	J3 Level	J4 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5735	6	11.1	13.4	12.9	21.9	15.4	23	-7.6
10	5800	6	14.3	14.9	26.9	30.9	17.6	23	-5.4
10	5840	6	13.6	13.3	23.0	21.4	16.5	23	-6.5
20	5740	6	9.3	12.6	8.5	18.2	14.3	23	-8.7
20	5800	6	12.8	14.4	19.0	27.5	16.7	23	-6.3
20	5835	6	8.9	12.2	7.8	16.6	13.9	23	-9.1
30	5745	6	8.3	9.6	6.8	9.1	12.0	23	-11.0
30	5800	6	13.7	13.4	23.4	21.9	16.6	23	-6.4
30	5830	6	9.4	11.6	8.7	14.5	13.6	23	-9.4
40	5750	f0	6.1	8.1	4.1	6.5	10.2	23	-12.8
40	5800	f0	12.3	12.8	17.0	19.1	15.6	23	-7.4
40	5825	f0	9.3	11.2	8.5	13.2	13.4	23	-9.6



Output Power for 16dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J3 Level	J4 Level	J3 Level	J4 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5735	6	8.1	10.4	6.5	11.0	12.4	30	-17.6
10	5800	6	11.3	11.9	13.5	15.5	14.6	30	-15.4
10	5840	6	10.6	10.3	11.5	10.7	13.5	30	-16.5
20	5740	6	6.3	9.6	4.3	9.1	11.3	30	-18.7
20	5800	6	9.8	11.4	9.5	13.8	13.7	30	-16.3
20	5835	6	5.9	9.2	3.9	8.3	10.9	30	-19.1
30	5745	6	5.3	6.6	3.4	4.6	9.0	30	-21.0
30	5800	6	10.7	10.4	11.7	11.0	13.6	30	-16.4
30	5830	6	6.4	8.6	4.4	7.2	10.6	30	-19.4
40	5750	f0	3.1	5.1	2.0	3.2	7.2	30	-22.8
40	5800	f0	9.3	9.8	8.5	9.5	12.6	30	-17.4
40	5825	f0	6.3	8.2	4.3	6.6	10.4	30	-19.6

Output Power for 17dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J3 Level	J4 Level	J3 Level	J4 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5735	6	7.1	9.4	5.1	8.7	11.4	30	-18.6
10	5800	6	10.3	10.9	10.7	12.3	13.6	30	-16.4
10	5840	6	9.6	9.3	9.2	8.5	12.5	30	-17.5
20	5740	6	5.3	8.6	3.4	7.2	10.3	30	-19.7
20	5800	6	8.8	10.4	7.6	11.0	12.7	30	-17.3
20	5835	6	4.9	8.2	3.1	6.6	9.9	30	-20.1
30	5745	6	4.3	5.6	2.7	3.6	8.0	30	-22.0
30	5800	6	9.7	9.4	9.3	8.7	12.6	30	-17.4
30	5830	6	5.4	7.6	3.5	5.8	9.6	30	-20.4
40	5750	f0	2.1	4.1	1.6	2.6	6.2	30	-23.8
40	5800	f0	8.3	8.8	6.8	7.6	11.6	30	-18.4
40	5825	f0	5.3	7.2	3.4	5.2	9.4	30	-20.6



Output Power for 19dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J3 Level	J4 Level	J3 Level	J4 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5735	6	5.1	7.4	3.2	5.5	9.4	30	-20.6
10	5800	6	8.3	8.9	6.8	7.8	11.6	30	-18.4
10	5840	6	7.6	7.3	5.8	5.4	10.5	30	-19.5
20	5740	6	3.3	6.6	2.1	4.6	8.3	30	-21.7
20	5800	6	6.8	8.4	4.8	6.9	10.7	30	-19.3
20	5835	6	2.9	6.2	1.9	4.2	7.9	30	-22.1
30	5745	6	2.3	3.6	1.7	2.3	6.0	30	-24.0
30	5800	6	7.7	7.4	5.9	5.5	10.6	30	-19.4
30	5830	6	3.4	5.6	2.2	3.6	7.6	30	-22.4
40	5750	f0	0.1	2.1	1.0	1.6	4.2	30	-25.8
40	5800	f0	6.3	6.8	4.3	4.8	9.6	30	-20.4
40	5825	f0	3.3	5.2	2.1	3.3	7.4	30	-22.6

Output Power for 20dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J3 Level	J4 Level	J3 Level	J4 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5735	6	4.1	6.4	2.6	4.4	8.4	30	-21.6
10	5800	6	7.3	7.9	5.4	6.2	10.6	30	-19.4
10	5840	6	6.6	6.3	4.6	4.3	9.5	30	-20.5
20	5740	6	2.3	5.6	1.7	3.6	7.3	30	-22.7
20	5800	6	5.8	7.4	3.8	5.5	9.7	30	-20.3
20	5835	6	1.9	5.2	1.5	3.3	6.9	30	-23.1
30	5745	6	1.3	2.6	1.3	1.8	5.0	30	-25.0
30	5800	6	6.7	6.4	4.7	4.4	9.6	30	-20.4
30	5830	6	2.4	4.6	1.7	2.9	6.6	30	-23.4
40	5750	f0	-0.9	1.1	0.8	1.3	3.2	30	-26.8
40	5800	f0	5.3	5.8	3.4	3.8	8.6	30	-21.4
40	5825	f0	2.3	4.2	1.7	2.6	6.4	30	-23.6



Output Power for 21dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J3 Level	J4 Level	J3 Level	J4 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5735	6	3.1	5.4	2.0	3.5	7.4	30	-22.6
10	5800	6	6.3	6.9	4.3	4.9	9.6	30	-20.4
10	5840	6	5.6	5.3	3.6	3.4	8.5	30	-21.5
20	5740	6	1.3	4.6	1.3	2.9	6.3	30	-23.7
20	5800	6	4.8	6.4	3.0	4.4	8.7	30	-21.3
20	5835	6	0.9	4.2	1.2	2.6	5.9	30	-24.1
30	5745	6	0.3	1.6	1.1	1.4	4.0	30	-26.0
30	5800	6	5.7	5.4	3.7	3.5	8.6	30	-21.4
30	5830	6	1.4	3.6	1.4	2.3	5.6	30	-24.4
40	5750	f0	-1.9	0.1	0.6	1.0	2.2	30	-27.8
40	5800	f0	4.3	4.8	2.7	3.0	7.6	30	-22.4
40	5825	f0	1.3	3.2	1.3	2.1	5.4	30	-24.6

Output Power for 22dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J3 Level	J4 Level	J3 Level	J4 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5735	6	2.1	4.4	1.6	2.8	6.4	30	-23.6
10	5800	6	5.3	5.9	3.4	3.9	8.6	30	-21.4
10	5840	6	4.6	4.3	2.9	2.7	7.5	30	-22.5
20	5740	6	0.3	3.6	1.1	2.3	5.3	30	-24.7
20	5800	6	3.8	5.4	2.4	3.5	7.7	30	-22.3
20	5835	6	-0.1	3.2	1.0	2.1	4.9	30	-25.1
30	5745	6	-0.7	0.6	0.9	1.1	3.0	30	-27.0
30	5800	6	4.7	4.4	3.0	2.8	7.6	30	-22.4
30	5830	6	0.4	2.6	1.1	1.8	4.6	30	-25.4
40	5750	f0	-2.9	-0.9	0.5	0.8	1.2	30	-28.8
40	5800	f0	3.3	3.8	2.1	2.4	6.6	30	-23.4
40	5825	f0	0.3	2.2	1.1	1.7	4.4	30	-25.6



Output Power for 30dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J3 Level	J4 Level	J3 Level	J4 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5735	6	-5.9	-3.6	0.3	0.4	-1.6	30	-31.6
10	5800	6	-2.7	-2.1	0.5	0.6	0.6	30	-29.4
10	5840	6	-3.4	-3.7	0.5	0.4	-0.5	30	-30.5
20	5740	6	-7.7	-4.4	0.2	0.4	-2.7	30	-32.7
20	5800	6	-4.2	-2.6	0.4	0.5	-0.3	30	-30.3
20	5835	6	-8.1	-4.8	0.2	0.3	-3.1	30	-33.1
30	5745	6	-8.7	-7.4	0.1	0.2	-5.0	30	-35.0
30	5800	6	-3.3	-3.6	0.5	0.4	-0.4	30	-30.4
30	5830	6	-7.6	-5.4	0.2	0.3	-3.4	30	-33.4
40	5750	f0	-10.9	-8.9	0.1	0.1	-6.8	30	-36.8
40	5800	f0	-4.7	-4.2	0.3	0.4	-1.4	30	-31.4
40	5825	f0	-7.7	-5.8	0.2	0.3	-3.6	30	-33.6

Output Power for 31dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J3 Level	J4 Level	J3 Level	J4 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5735	6	-6.9	-4.6	0.2	0.3	-2.6	30	-32.6
10	5800	6	-3.7	-3.1	0.4	0.5	-0.4	30	-30.4
10	5840	6	-4.4	-4.7	0.4	0.3	-1.5	30	-31.5
20	5740	6	-8.7	-5.4	0.1	0.3	-3.7	30	-33.7
20	5800	6	-5.2	-3.6	0.3	0.4	-1.3	30	-31.3
20	5835	6	-9.1	-5.8	0.1	0.3	-4.1	30	-34.1
30	5745	6	-9.7	-8.4	0.1	0.1	-6.0	30	-36.0
30	5800	6	-4.3	-4.6	0.4	0.3	-1.4	30	-31.4
30	5830	6	-8.6	-6.4	0.1	0.2	-4.4	30	-34.4
40	5750	f0	-11.9	-9.9	0.1	0.1	-7.8	30	-37.8
40	5800	f0	-5.7	-5.2	0.3	0.3	-2.4	30	-32.4
40	5825	f0	-8.7	-6.8	0.1	0.2	-4.6	30	-34.6



Output Power for 34dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J3 Level	J4 Level	J3 Level	J4 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5735	6	-9.9	-7.6	0.1	0.2	-5.6	30	-35.6
10	5800	6	-6.7	-6.1	0.2	0.2	-3.4	30	-33.4
10	5840	6	-7.4	-7.7	0.2	0.2	-4.5	30	-34.5
20	5740	6	-11.7	-8.4	0.1	0.1	-6.7	30	-36.7
20	5800	6	-8.2	-6.6	0.2	0.2	-4.3	30	-34.3
20	5835	6	-12.1	-8.8	0.1	0.1	-7.1	30	-37.1
30	5745	6	-12.7	-11.4	0.1	0.1	-9.0	30	-39.0
30	5800	6	-7.3	-7.6	0.2	0.2	-4.4	30	-34.4
30	5830	6	-11.6	-9.4	0.1	0.1	-7.4	30	-37.4
40	5750	f0	-14.9	-12.9	0.0	0.1	-10.8	30	-40.8
40	5800	f0	-8.7	-8.2	0.1	0.2	-5.4	30	-35.4
40	5825	f0	-11.7	-9.8	0.1	0.1	-7.6	30	-37.6