



Annex A

Output Power



Output Power for 6dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	TP	J7 Level	J8 Level	J7 Level	J8 Level	Total Summed Power	Limit	Margin
MHz	MHz			dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	16	16.6	16.7	45.7	46.8	19.7	24	-7.4
10	5600	vt0	17	15.9	16.2	38.9	41.7	19.1	24	-4.9
10	5715	vt0	15	15.7	15.8	37.2	38.0	18.8	24	-5.2
20	5485	vt0	11	11.3	11.2	13.5	13.2	14.3	24	-9.7
20	5600	vt0	18	18.5	18.9	70.8	77.6	21.7	24	-2.3
20	5710	vt0	17	19.2	18.8	83.2	75.9	22.0	24	-2.0
30	5490	vt0	8	8.8	8.7	7.6	7.4	11.8	24	-12.2
30	5600	vt0	19	19.7	20.2	93.3	104.7	23.0	24	-1.0
30	5705	vt0	18	20.9	19.9	123.0	97.7	23.4	24	-0.6
40	5495	vf0	8	7.7	8.3	5.9	6.8	11.0	24	-13.0
40	5600	vf0	20	18.2	19.4	66.1	87.1	21.9	24	-2.1
40	5700	vf0	19	20.1	20.1	102.3	102.3	23.1	24	-0.9
50	5500	vf0	8	7.7	8.3	5.9	6.8	11.0	24	-13.0
50	5600	vf0	20	18.3	19.5	67.6	89.1	22.0	24	-2.0
50	5695	vf0	19	20.1	20.0	102.3	100.0	23.1	24	-0.9
60	5505	vf0	7	6.7	7.3	4.7	5.4	10.0	24	-14.0
60	5600	vf0	20	18.4	19.5	69.2	89.1	22.0	24	-2.0
60	5690	vf0	19	20.1	20.0	102.3	100.0	23.1	24	-0.9
80	5515	ve00	6	6.0	5.8	4.0	3.8	8.9	24	-15.1
80	5600	ve00	20	18.0	19.3	63.1	85.1	21.7	24	-2.3
80	5680	ve00	20	20.5	20.7	112.2	117.5	23.6	24	-0.4



Output Power for 16dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J7 Level	J8 Level	J7 Level	J8 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	6.6	6.7	4.6	4.7	9.7	14	-7.4
10	5600	vt0	5.9	6.2	3.9	4.2	9.1	14	-4.9
10	5715	vt0	5.7	5.8	3.7	3.8	8.8	14	-5.2
20	5485	vt0	1.3	1.2	1.3	1.3	4.3	14	-9.7
20	5600	vt0	8.5	8.9	7.1	7.8	11.7	14	-2.3
20	5710	vt0	9.2	8.8	8.3	7.6	12.0	14	-2.0
30	5490	vt0	-1.2	-1.3	0.8	0.7	1.8	14	-12.2
30	5600	vt0	9.7	10.2	9.3	10.5	13.0	14	-1.0
30	5705	vt0	10.9	9.9	12.3	9.8	13.4	14	-0.6
40	5495	vf0	-2.3	-1.7	0.6	0.7	1.0	14	-13.0
40	5600	vf0	8.2	9.4	6.6	8.7	11.9	14	-2.1
40	5700	vf0	10.1	10.1	10.2	10.2	13.1	14	-0.9
50	5500	vf0	-2.3	-1.7	0.6	0.7	1.0	14	-13.0
50	5600	vf0	8.3	9.5	6.8	8.9	12.0	14	-2.0
50	5695	vf0	10.1	10.0	10.2	10.0	13.1	14	-0.9
60	5505	vf0	-3.3	-2.7	0.5	0.5	0.0	14	-14.0
60	5600	vf0	8.4	9.5	6.9	8.9	12.0	14	-2.0
60	5690	vf0	10.1	10.0	10.2	10.0	13.1	14	-0.9
80	5515	ve00	-4.0	-4.2	0.4	0.4	-1.1	14	-15.1
80	5600	ve00	8.0	9.3	6.3	8.5	11.7	14	-2.3
80	5680	ve00	10.5	10.7	11.2	11.7	13.6	14	-0.4



Output Power for 17dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J7 Level	J8 Level	J7 Level	J8 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	5.6	5.7	3.6	3.7	8.7	13	-7.4
10	5600	vt0	4.9	5.2	3.1	3.3	8.1	13	-4.9
10	5715	vt0	4.7	4.8	3.0	3.0	7.8	13	-5.2
20	5485	vt0	0.3	0.2	1.1	1.0	3.3	13	-9.7
20	5600	vt0	7.5	7.9	5.6	6.2	10.7	13	-2.3
20	5710	vt0	8.2	7.8	6.6	6.0	11.0	13	-2.0
30	5490	vt0	-2.2	-2.3	0.6	0.6	0.8	13	-12.2
30	5600	vt0	8.7	9.2	7.4	8.3	12.0	13	-1.0
30	5705	vt0	9.9	8.9	9.8	7.8	12.4	13	-0.6
40	5495	vf0	-3.3	-2.7	0.5	0.5	0.0	13	-13.0
40	5600	vf0	7.2	8.4	5.2	6.9	10.9	13	-2.1
40	5700	vf0	9.1	9.1	8.1	8.1	12.1	13	-0.9
50	5500	vf0	-3.3	-2.7	0.5	0.5	0.0	13	-13.0
50	5600	vf0	7.3	8.5	5.4	7.1	11.0	13	-2.0
50	5695	vf0	9.1	9.0	8.1	7.9	12.1	13	-0.9
60	5505	vf0	-4.3	-3.7	0.4	0.4	-1.0	13	-14.0
60	5600	vf0	7.4	8.5	5.5	7.1	11.0	13	-2.0
60	5690	vf0	9.1	9.0	8.1	7.9	12.1	13	-0.9
80	5515	ve00	-5.0	-5.2	0.3	0.3	-2.1	13	-15.1
80	5600	ve00	7.0	8.3	5.0	6.8	10.7	13	-2.3
80	5680	ve00	9.5	9.7	8.9	9.3	12.6	13	-0.4



Output Power for 19dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J7 Level	J8 Level	J7 Level	J8 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	3.6	3.7	2.3	2.3	6.7	11	-7.4
10	5600	vt0	2.9	3.2	1.9	2.1	6.1	11	-4.9
10	5715	vt0	2.7	2.8	1.9	1.9	5.8	11	-5.2
20	5485	vt0	-1.7	-1.8	0.7	0.7	1.3	11	-9.7
20	5600	vt0	5.5	5.9	3.5	3.9	8.7	11	-2.3
20	5710	vt0	6.2	5.8	4.2	3.8	9.0	11	-2.0
30	5490	vt0	-4.2	-4.3	0.4	0.4	-1.2	11	-12.2
30	5600	vt0	6.7	7.2	4.7	5.2	10.0	11	-1.0
30	5705	vt0	7.9	6.9	6.2	4.9	10.4	11	-0.6
40	5495	vf0	-5.3	-4.7	0.3	0.3	-2.0	11	-13.0
40	5600	vf0	5.2	6.4	3.3	4.4	8.9	11	-2.1
40	5700	vf0	7.1	7.1	5.1	5.1	10.1	11	-0.9
50	5500	vf0	-5.3	-4.7	0.3	0.3	-2.0	11	-13.0
50	5600	vf0	5.3	6.5	3.4	4.5	9.0	11	-2.0
50	5695	vf0	7.1	7.0	5.1	5.0	10.1	11	-0.9
60	5505	vf0	-6.3	-5.7	0.2	0.3	-3.0	11	-14.0
60	5600	vf0	5.4	6.5	3.5	4.5	9.0	11	-2.0
60	5690	vf0	7.1	7.0	5.1	5.0	10.1	11	-0.9
80	5515	ve00	-7.0	-7.2	0.2	0.2	-4.1	11	-15.1
80	5600	ve00	5.0	6.3	3.2	4.3	8.7	11	-2.3
80	5680	ve00	7.5	7.7	5.6	5.9	10.6	11	-0.4



Output Power for 20dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J7 Level	J8 Level	J7 Level	J8 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	2.6	2.7	1.8	1.9	5.7	10	-7.4
10	5600	vt0	1.9	2.2	1.5	1.7	5.1	10	-4.9
10	5715	vt0	1.7	1.8	1.5	1.5	4.8	10	-5.2
20	5485	vt0	-2.7	-2.8	0.5	0.5	0.3	10	-9.7
20	5600	vt0	4.5	4.9	2.8	3.1	7.7	10	-2.3
20	5710	vt0	5.2	4.8	3.3	3.0	8.0	10	-2.0
30	5490	vt0	-5.2	-5.3	0.3	0.3	-2.2	10	-12.2
30	5600	vt0	5.7	6.2	3.7	4.2	9.0	10	-1.0
30	5705	vt0	6.9	5.9	4.9	3.9	9.4	10	-0.6
40	5495	vf0	-6.3	-5.7	0.2	0.3	-3.0	10	-13.0
40	5600	vf0	4.2	5.4	2.6	3.5	7.9	10	-2.1
40	5700	vf0	6.1	6.1	4.1	4.1	9.1	10	-0.9
50	5500	vf0	-6.3	-5.7	0.2	0.3	-3.0	10	-13.0
50	5600	vf0	4.3	5.5	2.7	3.5	8.0	10	-2.0
50	5695	vf0	6.1	6.0	4.1	4.0	9.1	10	-0.9
60	5505	vf0	-7.3	-6.7	0.2	0.2	-4.0	10	-14.0
60	5600	vf0	4.4	5.5	2.8	3.5	8.0	10	-2.0
60	5690	vf0	6.1	6.0	4.1	4.0	9.1	10	-0.9
80	5515	ve00	-8.0	-8.2	0.2	0.2	-5.1	10	-15.1
80	5600	ve00	4.0	5.3	2.5	3.4	7.7	10	-2.3
80	5680	ve00	6.5	6.7	4.5	4.7	9.6	10	-0.4



Output Power for 21dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J7 Level	J8 Level	J7 Level	J8 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	1.6	1.7	1.4	1.5	4.7	9	-7.4
10	5600	vt0	0.9	1.2	1.2	1.3	4.1	9	-4.9
10	5715	vt0	0.7	0.8	1.2	1.2	3.8	9	-5.2
20	5485	vt0	-3.7	-3.8	0.4	0.4	-0.7	9	-9.7
20	5600	vt0	3.5	3.9	2.2	2.5	6.7	9	-2.3
20	5710	vt0	4.2	3.8	2.6	2.4	7.0	9	-2.0
30	5490	vt0	-6.2	-6.3	0.2	0.2	-3.2	9	-12.2
30	5600	vt0	4.7	5.2	3.0	3.3	8.0	9	-1.0
30	5705	vt0	5.9	4.9	3.9	3.1	8.4	9	-0.6
40	5495	vf0	-7.3	-6.7	0.2	0.2	-4.0	9	-13.0
40	5600	vf0	3.2	4.4	2.1	2.8	6.9	9	-2.1
40	5700	vf0	5.1	5.1	3.2	3.2	8.1	9	-0.9
50	5500	vf0	-7.3	-6.7	0.2	0.2	-4.0	9	-13.0
50	5600	vf0	3.3	4.5	2.1	2.8	7.0	9	-2.0
50	5695	vf0	5.1	5.0	3.2	3.2	8.1	9	-0.9
60	5505	vf0	-8.3	-7.7	0.1	0.2	-5.0	9	-14.0
60	5600	vf0	3.4	4.5	2.2	2.8	7.0	9	-2.0
60	5690	vf0	5.1	5.0	3.2	3.2	8.1	9	-0.9
80	5515	ve00	-9.0	-9.2	0.1	0.1	-6.1	9	-15.1
80	5600	ve00	3.0	4.3	2.0	2.7	6.7	9	-2.3
80	5680	ve00	5.5	5.7	3.5	3.7	8.6	9	-0.4



Output Power for 22dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J7 Level	J8 Level	J7 Level	J8 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	0.6	0.7	1.1	1.2	3.7	8	-7.4
10	5600	vt0	-0.1	0.2	1.0	1.0	3.1	8	-4.9
10	5715	vt0	-0.3	-0.2	0.9	1.0	2.8	8	-5.2
20	5485	vt0	-4.7	-4.8	0.3	0.3	-1.7	8	-9.7
20	5600	vt0	2.5	2.9	1.8	1.9	5.7	8	-2.3
20	5710	vt0	3.2	2.8	2.1	1.9	6.0	8	-2.0
30	5490	vt0	-7.2	-7.3	0.2	0.2	-4.2	8	-12.2
30	5600	vt0	3.7	4.2	2.3	2.6	7.0	8	-1.0
30	5705	vt0	4.9	3.9	3.1	2.5	7.4	8	-0.6
40	5495	vf0	-8.3	-7.7	0.1	0.2	-5.0	8	-13.0
40	5600	vf0	2.2	3.4	1.7	2.2	5.9	8	-2.1
40	5700	vf0	4.1	4.1	2.6	2.6	7.1	8	-0.9
50	5500	vf0	-8.3	-7.7	0.1	0.2	-5.0	8	-13.0
50	5600	vf0	2.3	3.5	1.7	2.2	6.0	8	-2.0
50	5695	vf0	4.1	4.0	2.6	2.5	7.1	8	-0.9
60	5505	vf0	-9.3	-8.7	0.1	0.1	-6.0	8	-14.0
60	5600	vf0	2.4	3.5	1.7	2.2	6.0	8	-2.0
60	5690	vf0	4.1	4.0	2.6	2.5	7.1	8	-0.9
80	5515	ve00	-10.0	-10.2	0.1	0.1	-7.1	8	-15.1
80	5600	ve00	2.0	3.3	1.6	2.1	5.7	8	-2.3
80	5680	ve00	4.5	4.7	2.8	3.0	7.6	8	-0.4



Output Power for 30dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J7 Level	J8 Level	J7 Level	J8 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	-7.4	-7.3	0.2	0.2	-4.3	0	-7.4
10	5600	vt0	-8.1	-7.8	0.2	0.2	-4.9	0	-4.9
10	5715	vt0	-8.3	-8.2	0.1	0.2	-5.2	0	-5.2
20	5485	vt0	-12.7	-12.8	0.1	0.1	-9.7	0	-9.7
20	5600	vt0	-5.5	-5.1	0.3	0.3	-2.3	0	-2.3
20	5710	vt0	-4.8	-5.2	0.3	0.3	-2.0	0	-2.0
30	5490	vt0	-15.2	-15.3	0.0	0.0	-12.2	0	-12.2
30	5600	vt0	-4.3	-3.8	0.4	0.4	-1.0	0	-1.0
30	5705	vt0	-3.1	-4.1	0.5	0.4	-0.6	0	-0.6
40	5495	vf0	-16.3	-15.7	0.0	0.0	-13.0	0	-13.0
40	5600	vf0	-5.8	-4.6	0.3	0.3	-2.1	0	-2.1
40	5700	vf0	-3.9	-3.9	0.4	0.4	-0.9	0	-0.9
50	5500	vf0	-16.3	-15.7	0.0	0.0	-13.0	0	-13.0
50	5600	vf0	-5.7	-4.5	0.3	0.4	-2.0	0	-2.0
50	5695	vf0	-3.9	-4.0	0.4	0.4	-0.9	0	-0.9
60	5505	vf0	-17.3	-16.7	0.0	0.0	-14.0	0	-14.0
60	5600	vf0	-5.6	-4.5	0.3	0.4	-2.0	0	-2.0
60	5690	vf0	-3.9	-4.0	0.4	0.4	-0.9	0	-0.9
80	5515	ve00	-18.0	-18.2	0.0	0.0	-15.1	0	-15.1
80	5600	ve00	-6.0	-4.7	0.3	0.3	-2.3	0	-2.3
80	5680	ve00	-3.5	-3.3	0.4	0.5	-0.4	0	-0.4



Output Power for 31dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J7 Level	J8 Level	J7 Level	J8 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	-8.4	-8.3	0.1	0.1	-5.3	-1	-7.4
10	5600	vt0	-9.1	-8.8	0.1	0.1	-5.9	-1	-4.9
10	5715	vt0	-9.3	-9.2	0.1	0.1	-6.2	-1	-5.2
20	5485	vt0	-13.7	-13.8	0.0	0.0	-10.7	-1	-9.7
20	5600	vt0	-6.5	-6.1	0.2	0.2	-3.3	-1	-2.3
20	5710	vt0	-5.8	-6.2	0.3	0.2	-3.0	-1	-2.0
30	5490	vt0	-16.2	-16.3	0.0	0.0	-13.2	-1	-12.2
30	5600	vt0	-5.3	-4.8	0.3	0.3	-2.0	-1	-1.0
30	5705	vt0	-4.1	-5.1	0.4	0.3	-1.6	-1	-0.6
40	5495	vf0	-17.3	-16.7	0.0	0.0	-14.0	-1	-13.0
40	5600	vf0	-6.8	-5.6	0.2	0.3	-3.1	-1	-2.1
40	5700	vf0	-4.9	-4.9	0.3	0.3	-1.9	-1	-0.9
50	5500	vf0	-17.3	-16.7	0.0	0.0	-14.0	-1	-13.0
50	5600	vf0	-6.7	-5.5	0.2	0.3	-3.0	-1	-2.0
50	5695	vf0	-4.9	-5.0	0.3	0.3	-1.9	-1	-0.9
60	5505	vf0	-18.3	-17.7	0.0	0.0	-15.0	-1	-14.0
60	5600	vf0	-6.6	-5.5	0.2	0.3	-3.0	-1	-2.0
60	5690	vf0	-4.9	-5.0	0.3	0.3	-1.9	-1	-0.9
80	5515	ve00	-19.0	-19.2	0.0	0.0	-16.1	-1	-15.1
80	5600	ve00	-7.0	-5.7	0.2	0.3	-3.3	-1	-2.3
80	5680	ve00	-4.5	-4.3	0.4	0.4	-1.4	-1	-0.4



Output Power for 34dBi gain PtoP antennas

Bandwidth	Frequency	Data Rate	J7 Level	J8 Level	J7 Level	J8 Level	Total Summed Power	Limit	Margin
MHz	MHz		dBm	dBm	mW	mW	dBm	dBm	dB
10	5480	vt0	-11.4	-11.3	0.1	0.1	-8.3	-4	-7.4
10	5600	vt0	-12.1	-11.8	0.1	0.1	-8.9	-4	-4.9
10	5715	vt0	-12.3	-12.2	0.1	0.1	-9.2	-4	-5.2
20	5485	vt0	-16.7	-16.8	0.0	0.0	-13.7	-4	-9.7
20	5600	vt0	-9.5	-9.1	0.1	0.1	-6.3	-4	-2.3
20	5710	vt0	-8.8	-9.2	0.1	0.1	-6.0	-4	-2.0
30	5490	vt0	-19.2	-19.3	0.0	0.0	-16.2	-4	-12.2
30	5600	vt0	-8.3	-7.8	0.1	0.2	-5.0	-4	-1.0
30	5705	vt0	-7.1	-8.1	0.2	0.2	-4.6	-4	-0.6
40	5495	vf0	-20.3	-19.7	0.0	0.0	-17.0	-4	-13.0
40	5600	vf0	-9.8	-8.6	0.1	0.1	-6.1	-4	-2.1
40	5700	vf0	-7.9	-7.9	0.2	0.2	-4.9	-4	-0.9
50	5500	vf0	-20.3	-19.7	0.0	0.0	-17.0	-4	-13.0
50	5600	vf0	-9.7	-8.5	0.1	0.1	-6.0	-4	-2.0
50	5695	vf0	-7.9	-8.0	0.2	0.2	-4.9	-4	-0.9
60	5505	vf0	-21.3	-20.7	0.0	0.0	-18.0	-4	-14.0
60	5600	vf0	-9.6	-8.5	0.1	0.1	-6.0	-4	-2.0
60	5690	vf0	-7.9	-8.0	0.2	0.2	-4.9	-4	-0.9
80	5515	ve00	-22.0	-22.2	0.0	0.0	-19.1	-4	-15.1
80	5600	ve00	-10.0	-8.7	0.1	0.1	-6.3	-4	-2.3
80	5680	ve00	-7.5	-7.3	0.2	0.2	-4.4	-4	-0.4