



# **Annex A**

# **Output Power**



**13dBi AMO-5G13**

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	5735	vt0	18.1	18.3	64.6	67.6	21.2	23	-1.8
10	5800	vt0	19.6	19.5	91.2	89.1	22.6	23	-0.4
10	5840	vt0	19.6	19.7	91.2	93.3	22.7	23	-0.3
20	5740	vt0	13.2	13.1	20.9	20.4	16.2	23	-6.8
20	5800	vt0	19.6	19.6	91.2	91.2	22.6	23	-0.4
20	5835	vt0	16.2	16.6	41.7	45.7	19.4	23	-3.6
30	5745	vt0	14.0	13.8	25.1	24.0	16.9	23	-6.1
30	5800	vt0	19.7	19.7	93.3	93.3	22.7	23	-0.3
30	5830	vt0	18.0	17.8	63.1	60.3	20.9	23	-2.1
40	5750	vf0	13.2	13.5	20.9	22.4	16.4	23	-6.6
40	5800	vf0	17.7	17.8	58.9	60.3	20.8	23	-2.2
40	5825	vf0	14.6	15.0	28.8	31.6	17.8	23	-5.2
50	5755	vf0	12.3	12.7	17.0	18.6	15.5	23	-7.5
50	5800	vf0	17.6	17.4	57.5	55.0	20.5	23	-2.5
50	5820	vf0	14.8	15.0	30.2	31.6	17.9	23	-5.1
60	5760	vf0	11.9	12.1	15.5	16.2	15.0	23	-8.0
60	5800	vf0	16.9	17.0	49.0	50.1	20.0	23	-3.0
60	5815	vf0	13.2	12.9	20.9	19.5	16.1	23	-6.9
80	5770	ve00	9.0	8.8	7.9	7.6	11.9	23	-11.1
80	5810	ve00	15.4	15.6	34.7	36.3	18.5	23	-4.5
80	5810	ve00	7.1	7.3	5.1	5.4	10.2	23	-12.8



**16dBi AM-5G-16-120**

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	5735	vt0	21.1	21.3	128.8	134.9	24.2	30	-5.8
10	5800	vt0	22.6	22.5	182.0	177.8	25.6	30	-4.4
10	5840	vt0	22.6	22.7	182.0	186.2	25.7	30	-4.3
20	5740	vt0	16.2	16.1	41.7	40.7	19.2	30	-10.8
20	5800	vt0	22.6	22.6	182.0	182.0	25.6	30	-4.4
20	5835	vt0	19.2	19.6	83.2	91.2	22.4	30	-7.6
30	5745	vt0	17.0	16.8	50.1	47.9	19.9	30	-10.1
30	5800	vt0	22.7	22.7	186.2	186.2	25.7	30	-4.3
30	5830	vt0	21.0	20.8	125.9	120.2	23.9	30	-6.1
40	5750	vf0	16.2	16.5	41.7	44.7	19.4	30	-10.6
40	5800	vf0	20.7	20.8	117.5	120.2	23.8	30	-6.2
40	5825	vf0	17.6	18.0	57.5	63.1	20.8	30	-9.2
50	5755	vf0	15.3	15.7	33.9	37.2	18.5	30	-11.5
50	5800	vf0	20.6	20.4	114.8	109.6	23.5	30	-6.5
50	5820	vf0	17.8	18.0	60.3	63.1	20.9	30	-9.1
60	5760	vf0	14.9	15.1	30.9	32.4	18.0	30	-12.0
60	5800	vf0	19.9	20.0	97.7	100.0	23.0	30	-7.0
60	5815	vf0	16.2	15.9	41.7	38.9	19.1	30	-10.9
80	5770	ve00	12.0	11.8	15.8	15.1	14.9	30	-15.1
80	5810	ve00	18.4	18.6	69.2	72.4	21.5	30	-8.5
80	5810	ve00	10.1	10.3	10.2	10.7	13.2	30	-16.8



**17dBi AM-5G17-90**

<b>Bandwidth</b>	<b>Frequency</b>	<b>Data Rate</b>	<b>J7 Level</b>	<b>J8 Level</b>	<b>J7 Level</b>	<b>J8 Level</b>	<b>Total Summed Power</b>	<b>Limit</b>	<b>Margin</b>
<b>MHz</b>	<b>MHz</b>		<b>dBm</b>	<b>dBm</b>	<b>mW</b>	<b>mW</b>	<b>dBm</b>	<b>dBm</b>	<b>dB</b>
10	5735	vt0	21.1	21.3	128.8	134.9	24.2	30	-5.8
10	5800	vt0	22.6	22.5	182.0	177.8	25.6	30	-4.4
10	5840	vt0	22.6	22.7	182.0	186.2	25.7	30	-4.3
20	5740	vt0	16.2	16.1	41.7	40.7	19.2	30	-10.8
20	5800	vt0	22.6	22.6	182.0	182.0	25.6	30	-4.4
20	5835	vt0	19.2	19.6	83.2	91.2	22.4	30	-7.6
30	5745	vt0	17.0	16.8	50.1	47.9	19.9	30	-10.1
30	5800	vt0	22.7	22.7	186.2	186.2	25.7	30	-4.3
30	5830	vt0	21.0	20.8	125.9	120.2	23.9	30	-6.1
40	5750	vf0	16.2	16.5	41.7	44.7	19.4	30	-10.6
40	5800	vf0	20.7	20.8	117.5	120.2	23.8	30	-6.2
40	5825	vf0	17.6	18.0	57.5	63.1	20.8	30	-9.2
50	5755	vf0	15.3	15.7	33.9	37.2	18.5	30	-11.5
50	5800	vf0	20.6	20.4	114.8	109.6	23.5	30	-6.5
50	5820	vf0	17.8	18.0	60.3	63.1	20.9	30	-9.1
60	5760	vf0	14.9	15.1	30.9	32.4	18.0	30	-12.0
60	5800	vf0	19.9	20.0	97.7	100.0	23.0	30	-7.0
60	5815	vf0	16.2	15.9	41.7	38.9	19.1	30	-10.9
80	5770	ve00	12.0	11.8	15.8	15.1	14.9	30	-15.1
80	5810	ve00	18.4	18.6	69.2	72.4	21.5	30	-8.5
80	5810	ve00	10.1	10.3	10.2	10.7	13.2	30	-16.8



**19dBi AM-5G19-120**

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	5735	vt0	21.1	21.3	128.8	134.9	24.2	30	-5.8
10	5800	vt0	22.6	22.5	182.0	177.8	25.6	30	-4.4
10	5840	vt0	22.6	22.7	182.0	186.2	25.7	30	-4.3
20	5740	vt0	16.2	16.1	41.7	40.7	19.2	30	-10.8
20	5800	vt0	22.6	22.6	182.0	182.0	25.6	30	-4.4
20	5835	vt0	19.2	19.6	83.2	91.2	22.4	30	-7.6
30	5745	vt0	17.0	16.8	50.1	47.9	19.9	30	-10.1
30	5800	vt0	22.7	22.7	186.2	186.2	25.7	30	-4.3
30	5830	vt0	21.0	20.8	125.9	120.2	23.9	30	-6.1
40	5750	vf0	16.2	16.5	41.7	44.7	19.4	30	-10.6
40	5800	vf0	20.7	20.8	117.5	120.2	23.8	30	-6.2
40	5825	vf0	17.6	18.0	57.5	63.1	20.8	30	-9.2
50	5755	vf0	15.3	15.7	33.9	37.2	18.5	30	-11.5
50	5800	vf0	20.6	20.4	114.8	109.6	23.5	30	-6.5
50	5820	vf0	17.8	18.0	60.3	63.1	20.9	30	-9.1
60	5760	vf0	14.9	15.1	30.9	32.4	18.0	30	-12.0
60	5800	vf0	19.9	20.0	97.7	100.0	23.0	30	-7.0
60	5815	vf0	16.2	15.9	41.7	38.9	19.1	30	-10.9
80	5770	ve00	12.0	11.8	15.8	15.1	14.9	30	-15.1
80	5810	ve00	18.4	18.6	69.2	72.4	21.5	30	-8.5
80	5810	ve00	10.1	10.3	10.2	10.7	13.2	30	-16.8



**20dBi AM-5G20-90**

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	5735	vt0	21.1	21.3	128.8	134.9	24.2	30	-5.8
10	5800	vt0	22.6	22.5	182.0	177.8	25.6	30	-4.4
10	5840	vt0	22.6	22.7	182.0	186.2	25.7	30	-4.3
20	5740	vt0	16.2	16.1	41.7	40.7	19.2	30	-10.8
20	5800	vt0	22.6	22.6	182.0	182.0	25.6	30	-4.4
20	5835	vt0	19.2	19.6	83.2	91.2	22.4	30	-7.6
30	5745	vt0	17.0	16.8	50.1	47.9	19.9	30	-10.1
30	5800	vt0	22.7	22.7	186.2	186.2	25.7	30	-4.3
30	5830	vt0	21.0	20.8	125.9	120.2	23.9	30	-6.1
40	5750	vf0	16.2	16.5	41.7	44.7	19.4	30	-10.6
40	5800	vf0	20.7	20.8	117.5	120.2	23.8	30	-6.2
40	5825	vf0	17.6	18.0	57.5	63.1	20.8	30	-9.2
50	5755	vf0	15.3	15.7	33.9	37.2	18.5	30	-11.5
50	5800	vf0	20.6	20.4	114.8	109.6	23.5	30	-6.5
50	5820	vf0	17.8	18.0	60.3	63.1	20.9	30	-9.1
60	5760	vf0	14.9	15.1	30.9	32.4	18.0	30	-12.0
60	5800	vf0	19.9	20.0	97.7	100.0	23.0	30	-7.0
60	5815	vf0	16.2	15.9	41.7	38.9	19.1	30	-10.9
80	5770	ve00	12.0	11.8	15.8	15.1	14.9	30	-15.1
80	5810	ve00	18.4	18.6	69.2	72.4	21.5	30	-8.5
80	5810	ve00	10.1	10.3	10.2	10.7	13.2	30	-16.8



**21 dBI AM-V5G-Ti**

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	5735	vt0	21.1	21.3	128.8	134.9	24.2	30	-5.8
10	5800	vt0	22.6	22.5	182.0	177.8	25.6	30	-4.4
10	5840	vt0	22.6	22.7	182.0	186.2	25.7	30	-4.3
20	5740	vt0	16.2	16.1	41.7	40.7	19.2	30	-10.8
20	5800	vt0	22.6	22.6	182.0	182.0	25.6	30	-4.4
20	5835	vt0	19.2	19.6	83.2	91.2	22.4	30	-7.6
30	5745	vt0	17.0	16.8	50.1	47.9	19.9	30	-10.1
30	5800	vt0	22.7	22.7	186.2	186.2	25.7	30	-4.3
30	5830	vt0	21.0	20.8	125.9	120.2	23.9	30	-6.1
40	5750	vf0	16.2	16.5	41.7	44.7	19.4	30	-10.6
40	5800	vf0	20.7	20.8	117.5	120.2	23.8	30	-6.2
40	5825	vf0	17.6	18.0	57.5	63.1	20.8	30	-9.2
50	5755	vf0	15.3	15.7	33.9	37.2	18.5	30	-11.5
50	5800	vf0	20.6	20.4	114.8	109.6	23.5	30	-6.5
50	5820	vf0	17.8	18.0	60.3	63.1	20.9	30	-9.1
60	5760	vf0	14.9	15.1	30.9	32.4	18.0	30	-12.0
60	5800	vf0	19.9	20.0	97.7	100.0	23.0	30	-7.0
60	5815	vf0	16.2	15.9	41.7	38.9	19.1	30	-10.9
80	5770	ve00	12.0	11.8	15.8	15.1	14.9	30	-15.1
80	5810	ve00	18.4	18.6	69.2	72.4	21.5	30	-8.5
80	5810	ve00	10.1	10.3	10.2	10.7	13.2	30	-16.8



**21dBi AM-5AC21-60**

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	5735	vt0	21.1	21.3	128.8	134.9	24.2	30	-5.8
10	5800	vt0	22.6	22.5	182.0	177.8	25.6	30	-4.4
10	5840	vt0	22.6	22.7	182.0	186.2	25.7	30	-4.3
20	5740	vt0	16.2	16.1	41.7	40.7	19.2	30	-10.8
20	5800	vt0	22.6	22.6	182.0	182.0	25.6	30	-4.4
20	5835	vt0	19.2	19.6	83.2	91.2	22.4	30	-7.6
30	5745	vt0	17.0	16.8	50.1	47.9	19.9	30	-10.1
30	5800	vt0	22.7	22.7	186.2	186.2	25.7	30	-4.3
30	5830	vt0	21.0	20.8	125.9	120.2	23.9	30	-6.1
40	5750	vf0	16.2	16.5	41.7	44.7	19.4	30	-10.6
40	5800	vf0	20.7	20.8	117.5	120.2	23.8	30	-6.2
40	5825	vf0	17.6	18.0	57.5	63.1	20.8	30	-9.2
50	5755	vf0	15.3	15.7	33.9	37.2	18.5	30	-11.5
50	5800	vf0	20.6	20.4	114.8	109.6	23.5	30	-6.5
50	5820	vf0	17.8	18.0	60.3	63.1	20.9	30	-9.1
60	5760	vf0	14.9	15.1	30.9	32.4	18.0	30	-12.0
60	5800	vf0	19.9	20.0	97.7	100.0	23.0	30	-7.0
60	5815	vf0	16.2	15.9	41.7	38.9	19.1	30	-10.9
80	5770	ve00	12.0	11.8	15.8	15.1	14.9	30	-15.1
80	5810	ve00	18.4	18.6	69.2	72.4	21.5	30	-8.5
80	5810	ve00	10.1	10.3	10.2	10.7	13.2	30	-16.8





**22dBi AM-5AC22-45**

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	5735	vt0	21.1	21.3	128.8	134.9	24.2	30	-5.8
10	5800	vt0	22.6	22.5	182.0	177.8	25.6	30	-4.4
10	5840	vt0	22.6	22.7	182.0	186.2	25.7	30	-4.3
20	5740	vt0	16.2	16.1	41.7	40.7	19.2	30	-10.8
20	5800	vt0	22.6	22.6	182.0	182.0	25.6	30	-4.4
20	5835	vt0	19.2	19.6	83.2	91.2	22.4	30	-7.6
30	5745	vt0	17.0	16.8	50.1	47.9	19.9	30	-10.1
30	5800	vt0	22.7	22.7	186.2	186.2	25.7	30	-4.3
30	5830	vt0	21.0	20.8	125.9	120.2	23.9	30	-6.1
40	5750	vf0	16.2	16.5	41.7	44.7	19.4	30	-10.6
40	5800	vf0	20.7	20.8	117.5	120.2	23.8	30	-6.2
40	5825	vf0	17.6	18.0	57.5	63.1	20.8	30	-9.2
50	5755	vf0	15.3	15.7	33.9	37.2	18.5	30	-11.5
50	5800	vf0	20.6	20.4	114.8	109.6	23.5	30	-6.5
50	5820	vf0	17.8	18.0	60.3	63.1	20.9	30	-9.1
60	5760	vf0	14.9	15.1	30.9	32.4	18.0	30	-12.0
60	5800	vf0	19.9	20.0	97.7	100.0	23.0	30	-7.0
60	5815	vf0	16.2	15.9	41.7	38.9	19.1	30	-10.9
80	5770	ve00	12.0	11.8	15.8	15.1	14.9	30	-15.1
80	5810	ve00	18.4	18.6	69.2	72.4	21.5	30	-8.5
80	5810	ve00	10.1	10.3	10.2	10.7	13.2	30	-16.8



**RD-5G30**

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	5735	vt0	21.1	21.3	128.8	134.9	24.2	30	-5.8
10	5800	vt0	22.6	22.5	182.0	177.8	25.6	30	-4.4
10	5840	vt0	22.6	22.7	182.0	186.2	25.7	30	-4.3
20	5740	vt0	16.2	16.1	41.7	40.7	19.2	30	-10.8
20	5800	vt0	22.6	22.6	182.0	182.0	25.6	30	-4.4
20	5835	vt0	19.2	19.6	83.2	91.2	22.4	30	-7.6
30	5745	vt0	17.0	16.8	50.1	47.9	19.9	30	-10.1
30	5800	vt0	22.7	22.7	186.2	186.2	25.7	30	-4.3
30	5830	vt0	21.0	20.8	125.9	120.2	23.9	30	-6.1
40	5750	vf0	16.2	16.5	41.7	44.7	19.4	30	-10.6
40	5800	vf0	20.7	20.8	117.5	120.2	23.8	30	-6.2
40	5825	vf0	17.6	18.0	57.5	63.1	20.8	30	-9.2
50	5755	vf0	15.3	15.7	33.9	37.2	18.5	30	-11.5
50	5800	vf0	20.6	20.4	114.8	109.6	23.5	30	-6.5
50	5820	vf0	17.8	18.0	60.3	63.1	20.9	30	-9.1
60	5760	vf0	14.9	15.1	30.9	32.4	18.0	30	-12.0
60	5800	vf0	19.9	20.0	97.7	100.0	23.0	30	-7.0
60	5815	vf0	16.2	15.9	41.7	38.9	19.1	30	-10.9
80	5770	ve00	12.0	11.8	15.8	15.1	14.9	30	-15.1
80	5810	ve00	18.4	18.6	69.2	72.4	21.5	30	-8.5
80	5810	ve00	10.1	10.3	10.2	10.7	13.2	30	-16.8



**RD-5G31-AC**

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	5735	vt0	21.1	21.3	128.8	134.9	24.2	30	-5.8
10	5800	vt0	22.6	22.5	182.0	177.8	25.6	30	-4.4
10	5840	vt0	22.6	22.7	182.0	186.2	25.7	30	-4.3
20	5740	vt0	16.2	16.1	41.7	40.7	19.2	30	-10.8
20	5800	vt0	22.6	22.6	182.0	182.0	25.6	30	-4.4
20	5835	vt0	19.2	19.6	83.2	91.2	22.4	30	-7.6
30	5745	vt0	17.0	16.8	50.1	47.9	19.9	30	-10.1
30	5800	vt0	22.7	22.7	186.2	186.2	25.7	30	-4.3
30	5830	vt0	21.0	20.8	125.9	120.2	23.9	30	-6.1
40	5750	vf0	16.2	16.5	41.7	44.7	19.4	30	-10.6
40	5800	vf0	20.7	20.8	117.5	120.2	23.8	30	-6.2
40	5825	vf0	17.6	18.0	57.5	63.1	20.8	30	-9.2
50	5755	vf0	15.3	15.7	33.9	37.2	18.5	30	-11.5
50	5800	vf0	20.6	20.4	114.8	109.6	23.5	30	-6.5
50	5820	vf0	17.8	18.0	60.3	63.1	20.9	30	-9.1
60	5760	vf0	14.9	15.1	30.9	32.4	18.0	30	-12.0
60	5800	vf0	19.9	20.0	97.7	100.0	23.0	30	-7.0
60	5815	vf0	16.2	15.9	41.7	38.9	19.1	30	-10.9
80	5770	ve00	12.0	11.8	15.8	15.1	14.9	30	-15.1
80	5810	ve00	18.4	18.6	69.2	72.4	21.5	30	-8.5
80	5810	ve00	10.1	10.3	10.2	10.7	13.2	30	-16.8