

AquaCell Endpoints have been certified to meet FCC standards - FCC ID: N7NHL78

The protocol used is LTE-M (LTE machine) - this is a low bandwidth channel for small data transmission.

The power levels and frequencies have been studied and certified by the FCC to be safe for humans.

AquaCell Endpoints use non-ionizing radio waves to communicate to local cell towers once every 6 hours for a few milliseconds (less than 1 second).

**6 Radiated Spurious Emissions: MS Allocated A Channel**

LTE CATM1 Band 2	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
Frequency (MHz)								
3706.906250	-65.72	-30.00	35.72	152.4	V	66.0	313.0	-88.2
5628.520833	-56.72	-30.00	26.72	152.4	V	264.0	51.0	-85.3
5653.979167	-61.55	-30.00	31.55	152.4	H	279.0	309.0	-85.2
7504.604167	-58.72	-30.00	28.72	152.4	H	58.0	2.0	-82.2
7537.406250	-54.03	-30.00	24.03	152.4	H	306.0	180.0	-82.0
10400.000000	-54.97	-30.00	24.97	152.4	V	119.0	183.0	-75.2

LTE CATM1 Band 4	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
Frequency (MHz)								
3457.218750	-52.33	-30.00	22.33	152.4	H	127.0	141.0	-89.6
3473.864583	-51.16	-30.00	21.16	152.4	H	142.0	134.0	-89.8
5185.937500	-58.23	-30.00	28.23	152.4	V	70.0	299.0	-85.5
5210.416667	-63.66	-30.00	33.66	152.4	H	279.0	244.0	-85.7
6053.479167	-62.11	-30.00	32.11	152.4	H	68.0	240.0	-84.0
6947.458333	-59.94	-30.00	29.94	152.4	V	270.0	193.0	-83.0
9920.697917	-55.37	-30.00	25.37	152.4	V	30.0	30.0	-75.4

LTE CATM1 Band 12	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
Frequency (MHz)								
1201.708333	-73.02	-30.00	43.02	152.4	V	90.0	150.0	-96.7
2457.979167	-67.08	-30.00	37.08	152.4	V	12.0	343.0	-89.8
4357.072917	-64.92	-30.00	34.92	152.4	H	180.0	7.0	-86.8
5011.645833	-64.02	-30.00	34.02	152.4	H	65.0	120.0	-86.3
5639.291667	-63.71	-30.00	33.71	152.4	H	274.0	180.0	-85.2
6957.250000	-60.38	-30.00	30.38	152.4	H	15.0	60.0	-82.2

LTE CATM1 Band 13 Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1166.458333	-57.54	-30.00	27.54	152.4	V	172.0	-9.0	-96.4
1312.354167	-72.68	-30.00	42.68	152.4	H	80.0	236.0	-96.2
1572.812500	-71.21	-30.00	41.21	152.4	V	123.0	210.0	-96.6
2460.916667	-66.98	-30.00	36.98	152.4	V	266.0	180.0	-89.9
4438.833333	-64.40	-30.00	34.40	152.4	V	155.0	76.0	-86.6
6201.822917	-62.11	-30.00	32.11	152.4	H	9.0	283.0	-83.7