

Frequencies, emissions and RF power for this location

MHz	Emission	Antenna AEL 1734 Average Degrees 3 dB BW		Antenna EDO AS48461 or Equivalent Average Degrees 3 dB BW		Both Antennas Average Gain (dBi)	Both Antennas Maximum EIRP (W)	Both Antennas Maximum EIRP dBW	AEL- 1734 See Exhibit	EDO AS-4846 or Equiv. See Exhibit
		E	H	E	H					
964-1050	N0N	50	45			11.00	0.500	-3.01	A2	
1080-1120	N0N	50	45			11.00	0.500	-3.01	B2	
1128-1214	N0N	50	45			11.00	0.500	-3.01	C2	
1216-1680	N0N	50	45			11.00	0.500	-3.01	D2	
1690-1820	N0N	50	45			11.00	0.500	-3.01	E2	
1830-2020	N0N	50	45			11.00	0.500	-3.01	F2	
2030-2190	N0N	50	45	30	30	11.00	0.500	-3.01	G2	A3
2400-2500	N0N	50	45	30	30	11.00	0.300	-5.23	H2	B3
2690-2900	N0N	50	45	30	30	11.00	0.300	-5.23	I2	C3
3800-5000	N0N	50	45	30	30	11.00	0.300	-5.23	J2	D3
5600-5650	N0N	50	45	30	30	11.00	0.300	-5.23	K2	E3
6000-6200	N0N			30	30	11.00	0.300	-5.23		F3
6200-6700	N0N			30	30	11.00	1.000	0.00		G3
6700-7700	N0N			30	30	11.00	0.300	-5.23		H3
11200-11800	N0N			30	30	11.00	0.300	-5.23		I3

The ERP is the maximum effective radiated power across the respective frequencies as noted in the above table. This means that the RF power from the signal source is adjusted, the loss of the transmission cable to the antenna and the gain of the antennas are considered, such that the maximum radiated power from the antenna will not exceed the stated RF power at any time.

The signal source sweeps through the frequencies as such that the instantaneous power will not exceed the stated RF power at any time. The dwell time on a single frequency as it sweeps is a few nanoseconds. The signal source is controlled such that the frequency is not constant and always sweeping. At the end of each band sweep the signal sweep stops on the last frequency and the transmission is immediately terminated. This method is used for the horn antennas and the Bi-Log antenna as noted in this document.

