

Section 15.231 (Periodic operation above 70 MHz.)

In addition to the provisions of Section 15.205, the field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

Frequency (MHz)	Fundamental (microvolts/meter)	Spurious (microvolts/meter)	
260 - 470	3,750 to 12,500 **	375 to 1,250 **	NOTE: ** linear interpolations

NOTES:

- (1) The above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.
- (2) Intentional radiators operating under the provisions of this Section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions. As an alternative, compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector. The specific method of measurement employed shall be specified in the application for equipment authorization. If average emission measurements are employed, the provisions in Section 15.35 for averaging pulsed emissions and for limiting peak emissions apply. Further, compliance with the provisions of Section 15.205 shall be demonstrated using the measurement instrumentation specified in that section.
- (3) The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in Section 15.209, whichever limit permits a higher field strength.
- (4) $F_o = 345\text{MHz}$. $LO = 334.3\text{MHz}(345-10.7)$ Crystal frequency = 20.89375
- (5) Detector = Peak
- (6) Frequency range scanned to 4 GHz. (Emissions not reported were more than 20dB below the specified limit).

$$[(\text{Meter reading} + \text{Cable/Amp factor} + \text{Antenna factor}) / 20]$$

- (7) Conv. Reading = 10

- (8) Corr. Reading = Conv. Reading X Duty Cycle

- (9) Date : 5/10/2005 Tested by : Y. Mohammed Approved by : Ken Addy

Freq. (MHz)	Antenna Polarity (V/H)	Meter Reading (dB uV)	Cable/Amp Factor (dB)	Antenna Factor (dB/M)	Conv. Reading (uV/M)	Duty Cycle (%)	Corr. Reading (uV/M)	Limit @ 3M (uV/M)
			CABLE "A"	BICONOLOG				
20.89375	H	25.00	0.00	9.10	50.7	100.0%	50.7	100
41.78750	H	25.00	0.30	9.20	53.1	100.0%	53.1	150
62.68125	H	25.00	0.40	9.41	55.0	100.0%	55.0	150
83.57500	H	25.00	0.50	10.10	60.3	100.0%	60.3	150
104.46875	H	25.00	0.71	10.36	63.6	100.0%	63.6	200
125.36250	H	25.00	0.75	12.42	81.0	100.0%	81.0	200
146.25625	H	25.00	0.80	13.39	91.1	100.0%	91.1	200
167.15000	H	25.00	0.86	13.44	92.3	100.0%	92.3	200
188.04375	H	25.00	0.90	11.55	74.6	100.0%	74.6	200
208.93750	H	25.00	1.00	11.63	76.1	100.0%	76.1	200
229.83125	H	25.00	1.05	11.97	79.6	100.0%	79.6	200
250.72500	H	25.00	1.10	12.03	80.6	100.0%	80.6	200
271.61875	H	25.00	1.12	12.80	88.3	100.0%	88.3	200
292.51250	H	25.00	1.13	13.32	93.9	100.0%	93.9	200
313.40625	H	25.00	1.15	13.62	97.4	100.0%	97.4	200
334.30000	H	25.00	1.12	14.1	102.6	100.0%	102.6	200
355.19375	H	25.00	1.30	15.06	116.9	100.0%	116.9	200
376.08750	H	25.00	1.35	15.93	130.0	100.0%	130.0	200
396.98125	H	25.00	1.40	16.33	136.9	100.0%	136.9	200
417.87500	H	25.00	1.45	16.45	139.6	100.0%	139.6	200
			CABLE "A"	BICONOLOG				

