

FCC Part 15, Subpart C, § 15.231(e) Limit Table		
Fundamental Frequency (MHz)	Field Strength of Fundamental (μV/m)	Field Strength of Spurious Emissions (μV/m)
40.66-40.70	1,000	100
70-130	500	50
130-174	500 to 1,500*	50 to 150*
174-260	1,500	150
260-470	1,500 to 5,000*	150 to 500*
Above 470	5,000	500

*Linear Interpolations. The following formula was used to calculate the limit:

$$(16.6667) \times f \text{ (MHz)} - (2833.3333) \mu\text{V/m} = \text{Limit}$$

for a test distance of 3 meters, where f (MHz) is the Equipment Under Test's fundamental frequency.

The fundamental frequency of the EUT is 315.0 MHz. The applicable limits for the Equipment Under Test are those listed for the fundamental frequency falling within the frequency band of 260-470 MHz.

Test Results:

Company Name: Cigar Sentry

EUT Name: Wireless Humidity Alarm (Sensor/transmitter) (MODEL C)

Operating Frequency: 315.0 MHz

Field Strength of Emissions from an Intentional Radiator (Reference: FCC Pt.15 Subpart C, §15.231(e))

FCC Average Limit for the Fundamental: $(16.6667) \times f \text{ (MHz)} - (2833.3333) \mu\text{V/m} @3\text{meters} = 2,416.67 \mu\text{V/m}$

FCC Average Limit for the Harmonics: 241.66μV/m

Polarity (V &H)	Frequency (MHz)	S.A. Reading Peak (dBμV)	Correction Factor (dB)	Peak Field Strength at 3 meters (dBμV/m)	Peak Field Strength at 3 meters (μV/m)	Average Field Strength at 3 meters (μV/m)	FCC Limit at 3 meters (μV/m)
V	315	81.8	-6.5	75.3	5,821.03	-	2,416.67
H	315	94.2	-6.5	87.7	24,266.10	2,426.61	2,416.67
V	630	52.6	1.9	54.5	530.88	53.08	241.66
H	630	62.3	1.9	64.2	1,621.81	162.18	241.66
V	945	30.5	7.0	37.5	74.99	-	241.66
H	945	37.0	7.0	41.0	112.20	-	241.66
V	1260	47.50	-4.09	43.41	148.08	-	241.66
H	1260	55.80	-4.09	51.71	385.03	38.50	241.66
V	1575	40.20	-1.26	38.94	88.51	-	241.66
H	1575	48.40	-1.26	47.14	227.51	-	241.66
V	1890	NDS	1.58	NDS	NDS	NDS	241.66
H	1890	NDS	1.58	NDS	NDS	NDS	241.66
V	2205	NDS	3.73	NDS	NDS	NDS	241.66
H	2205	34.10	3.73	37.83	77.89	-	241.66
V	2520	NDS	5.46	NDS	NDS	NDS	241.66
H	2520	NDS	5.46	NDS	NDS	NDS	241.66
V	2835	NDS	6.61	NDS	NDS	NDS	241.66
H	2835	NDS	6.61	NDS	NDS	NDS	241.66
V	3150	NDS	8.15	NDS	NDS	NDS	241.66
H	3150	NDS	8.15	NDS	NDS	NDS	241.66

- Average emission measurements were employed and the provisions in §15.35 for averaging pulsed emissions and for limiting peak emissions were followed.

- NDS (No Detectable Signal)