

SPECTRUM TECHNOLOGY, INC.

Field Strength of Radiated Fundamental and Spurious Emissions

47 CFR Part 15.231 - Final Data - Ref. SMARTIR3 .TV-1

Grantee: SmarTire Systems, Inc.
FCC ID: NATTX433TV-1

07/13/01

	Freq Limit uV/m Peak MHz	Vert in Average dBuV	Horz Rdg. dBuV	Ant-F Rdg. Loss	Cable dB	Amp & BPF dBuV/m	Corrected Gain detector	Rdg in	uV/m detector
Fo	433.92	57.33	59.5	21.60	2.4	0	83.50	14963	4399
2Fo	867.84	46.17	50.67	27.70	6.5	25	59.87	985	500
3Fo	1.30176	52.83	59.67	25.70	1.05	27.00	59.42	935	" "
4Fo	1.73568	49.33	53.67	27.15	1.22	25.30	56.74	687	" "
5Fo	2.16960	47.50	51.50	27.15	1.22	24.00	55.87	621	" "
6Fo	2.60325	35.67	35.33	28.37	1.38	22.10	43.32	141	" "
7Fo	3.03744	34.50	33.67	29.93	1.53	21.30	44.36	168	" "
8Fo	3.471360	53.33	49.17	31.01	1.67	21.20	64.65	1708	" "
9Fo	3.905280	51.33	42.67	34.45	1.80	21.60	65.98	1990	" "
10Fo	4.339200	52.33	42.50	31.98	1.92	22.5	63.73	1536	" "

Note: The highest level of the Vertical or Horizontal Reading in dBuV is calculated out above.

Limit for the band 260 - 470 MHz, uV/m at 3 meters = 16.6667(F) - 2833.3333.

Limit at 433.92 MHz = 4399 uV/m average detector limit, Section 15.231(e).

Peak detector field strength was measured at 14963 uV/m at 3 meters. **With the 18.5% duty cycle = 2768 uV/m** calculated average detector field strength with an average detector limit of 4399 uV/m.

