

SPECTRUM TECHNOLOGY, INC.

Field Strength of the Fundamental and Spurious Radiated Emissions

47 CFR Part 15.231 - Final Data - Ref. SMARTIR4 .TS-2

Grantee: SmarTire Systems, Inc.
FCC ID: NATTX433TS-2

07/13/01

	Freq Limit MHz	uV/m Peak	Vert in Average dBuV	Horz Rdg. dBuV	Ant-F Rdg. Loss	Cable dB	Amp & BPF dBuV/m	Corrected Gain detector	uV/m Rdg in detector	
—										
Fo	433.92		56.00	61.67	21.60	2.4	0	85.67	19208	4339
2Fo	867.84		50.00	54.00	27.70	6.5	25.00	63.2	1445	500
3Fo	1.30176		58.17	66.50	25.70	1.05	27.00	66.25	2053	" "
4Fo	1.73568		53.17	63.83	27.15	1.22	25.30	66.9	2213	" "
5Fo	2.16960		46.00	50.17	27.15	1.22	24.00	54.54	533	" "
6Fo	2.60325		34.67	41.83	28.37	1.38	22.10	49.48	297	" "
7Fo	3.03744		32.83	37.67	29.93	1.53	21.30	47.83	246	" "
8Fo	3.471360		47.33	36.17	31.01	1.67	21.20	58.81	871	" "
9Fo	3.905280		39.33	48.83	34.45	1.80	21.60	63.48	1493	" "
10Fo	4.339200		40.67	42.50	31.98	1.92	22.5	53.90	495	" "

Note: The highest level in dBuV of the Vertical or Horizontal Reading is calculated 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 19208 uV/m at 3 meters. With the **18.5% duty cycle = 3553 uV/m** calculated average detector field strength with an average detector limit of 4399uV/m.

