



**FCC Compliance Report
For
Avante International Technology, Inc.
EVC308, VOTE-TRAKKER™**





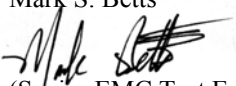
**FCC Compliance Report
For
Avante International Technology, Inc.
EVC308, VOTE-TRAKKER™**

Date : 3/7/03
MJO # : 40349-04
File : 40349-04.AIT
Revision # : None
Product : VOTE-TRAKKER™
Manufacturer : Avante International Technology, Inc.
P.O. # : 030083

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This report shall not be reproduced, except in full, without the written approval of NTS, Inc.
The test results relate only to the items tested.



Product : VOTE-TRAKKER™
Model : EVC308
Serial Number : VTD0200143
Manufacturer : Avante International Technology, Inc.
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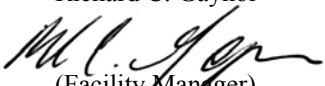
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1. General Description:

The VOTE-TRAKKER™ is voting equipment.

2. Classification and Environment:

FCC Part 15, Intentional Radiators Emissions standards are applied to the EVC308, VOTE-TRAKKER™.

3. Test and Results Summary:

Tests	Standards	Results
Emissions, FCC Part 15		
Radiated Spurious and Fundamental Emissions	FCC Part 15, Intentional Radiators	Pass

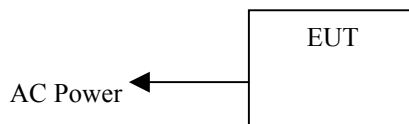
4. Test Report Summary:

The VOTE-TRAKKER™ was tested to the specified standards and was found to comply with the general requirements for intentional radiators. No measurable emissions were observed at the fundamental frequency of 13.56 MHz.

4.1. Test Sample Description:

The test sample is a laptop computer installed with a touch screen and includes a small printer installed in a plastic transport case.

4.1.1. Block Diagram:



4.1.2. EUT Equipment List:

The table below displays what the EUT consists of during the tests.

Manufacturer	Make	Model	Serial Number
Avante International Technology, Inc.	VOTE-TRAKKER™	EVC308	VTD0200143

4.1.3. EUT Cabling:

The table below displays the cable configuration of the EUT and accessories.

Termination Point 1	Termination Point 2	Cable Length	Cable Type	Part Number
AC Power	EUT AC Power In	4'	Standard AC	N/A

4.2. Test Configuration:

4.2.1. EUT Electrical Mode of Operation:

The EUT was operated at 120 VAC/60 Hz Nominal.
The EUT was run in Normal Operation mode.

4.2.2. Software/Firmware:

Windows NT

4.3. Test Plan:

Test Standards	Test Requirements
EMISSIONS	FCC Part 15
Radiated Spurious and Fundamental Emissions	9-490 kHz, 88.5-43.7 dB μ V/m @3m
FCC Part 15, Intentional Radiators	490-1705 kHz, 53.8-43.0 dB μ V/m @3m
	1.705-30 MHz, 49.5 dB μ V/m @3m



4.4. Test Procedure:

The EUT's testing was performed in accordance with approved test procedures specified in the applicable standards. All test procedures can be found with their appropriate tests.

4.5. Test Results and Data:

4.5.1. Radiated Emissions:

Radiated Emissions testing was conducted as defined in FCC Part 15, Intentional Radiators.

The receiver was set to use the Peak detector for the initial scan, because this gives the greatest sensitivity to signals for the display. Any signals emanating from the EUT would be measured using the Quasi-Peak detector. Data was taken at a distance of 1 meter in an anechoic chamber. The EUT was rotated 360° to determine worst-case emissions.

Conclusion: **Testing showed no levels that exceeded the required specification limits.**



Radiated Emissions Laboratory Report

MJO #:	40349-04	Applied Standard:	FCC Part 15
Manufacturer Name:	Avante International Technology, Inc.	Date of Test:	3/5/03
Product Name:	VOTE-TRAKKER™	Tester:	Kent Hoffman/Mark Betts
Model Number:	EVC308	Test Facility:	Anechoic Chamber
Serial Number:	VTD0200143	Temperature:	20°C
Performance Criteria:	N/A	Relative Humidity:	48%
EUT Mode:	Normal Operation	EUT Power:	120 VAC/60 Hz

Specification Limits:

Frequency Band (MHz)	Intentional Radiators, 3 meters dB(μV/m)
.009-.490	88.5-43.7
.490-1.705	53.8-43.0
1.705-30	49.5

**Radiated Emissions Test Results****Distance 1 Meter****Note: All levels include antenna factors and cable losses.**

Frequency (MHz)	Antenna (V/H)	Antenna Height (m)	EUT Position	Measured Level dB(μV/m) Quasi-Peak	Limit Level dB(μV/m)	Δ (dB)	Results (Pass/Fail)
0.009	N/A	1.0	180.00	41.8	88.5	-46.7	Pass
0.011	N/A	1.0	180.00	42.0	86.7	-44.7	Pass
0.013	N/A	1.0	180.00	36.4	85.3	-48.9	Pass
0.015	N/A	1.0	180.00	34.1	84.0	-49.9	Pass
0.017	N/A	1.0	180.00	29.2	83.0	-53.8	Pass
0.019	N/A	1.0	180.00	25.3	82.0	-56.7	Pass
0.020	N/A	1.0	180.00	23.0	81.6	-58.6	Pass
0.022	N/A	1.0	180.00	20.0	80.8	-60.7	Pass
0.024	N/A	1.0	180.00	19.2	80.0	-60.8	Pass
0.030	N/A	1.0	180.00	14.4	78.1	-63.7	Pass
0.031	N/A	1.0	180.00	21.0	77.8	-56.8	Pass
0.043	N/A	1.0	180.00	14.4	74.9	-60.5	Pass
0.051	N/A	1.0	180.00	12.6	73.5	-60.9	Pass
0.056	N/A	1.0	180.00	15.7	72.6	-56.9	Pass
0.066	N/A	1.0	180.00	15.0	71.2	-56.2	Pass
0.074	N/A	1.0	180.00	13.2	70.2	-57.0	Pass
0.076	N/A	1.0	180.00	14.3	70.0	-55.7	Pass
0.084	N/A	1.0	180.00	14.2	69.1	-54.9	Pass
0.097	N/A	1.0	180.00	15.7	67.9	-52.2	Pass
0.103	N/A	1.0	180.00	13.3	67.3	-54.0	Pass
0.105	N/A	1.0	180.00	12.9	67.2	-54.3	Pass
0.109	N/A	1.0	180.00	13.0	66.9	-53.8	Pass
0.112	N/A	1.0	180.00	13.9	66.6	-52.7	Pass
0.114	N/A	1.0	180.00	14.7	66.5	-51.8	Pass



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Frequency (MHz)	Antenna (V/H)	Antenna Height (m)	EUT Position	Measured Level dB(μ V/m) Quasi-Peak	Limit Level dB(μ V/m)	Δ (dB)	Results (Pass/Fail)
0.119	N/A	1.0	180.00	12.4	66.1	-53.7	Pass
0.135	N/A	1.0	180.00	11.4	65.0	-53.6	Pass
0.143	N/A	1.0	180.00	11.6	64.5	-52.9	Pass
0.144	N/A	1.0	180.00	12.7	64.4	-51.8	Pass
0.146	N/A	1.0	180.00	12.1	64.3	-52.2	Pass
0.149	N/A	1.0	180.00	10.1	64.1	-54.0	Pass
0.482	N/A	1.0	0.00	14.9	53.9	-39.0	Pass
0.714	N/A	1.0	0.00	17.4	50.5	-33.1	Pass
0.780	N/A	1.0	0.00	17.3	49.8	-32.5	Pass
0.847	N/A	1.0	0.00	18.3	49.0	-30.7	Pass
0.913	N/A	1.0	0.00	21.8	48.4	-26.6	Pass
1.079	N/A	1.0	0.00	25.1	46.9	-21.9	Pass
1.211	N/A	1.0	0.00	28.0	45.9	-17.9	Pass
1.278	N/A	1.0	0.00	31.2	45.5	-14.3	Pass
1.344	N/A	1.0	0.00	28.6	45.0	-16.4	Pass
1.410	N/A	1.0	0.00	28.2	44.6	-16.4	Pass
1.974	N/A	1.0	0.00	22.8	49.5	-26.7	Pass
2.041	N/A	1.0	0.00	23.3	49.5	-26.2	Pass
2.107	N/A	1.0	0.00	23.4	49.5	-26.2	Pass
2.173	N/A	1.0	0.00	24.1	49.5	-25.4	Pass
2.240	N/A	1.0	0.00	24.2	49.5	-25.3	Pass
2.306	N/A	1.0	0.00	24.7	49.5	-24.8	Pass
2.538	N/A	1.0	0.00	21.1	49.5	-28.4	Pass
2.604	N/A	1.0	0.00	20.0	49.5	-29.5	Pass
2.671	N/A	1.0	0.00	19.5	49.5	-30.0	Pass
2.737	N/A	1.0	0.00	18.7	49.5	-30.8	Pass



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Frequency (MHz)	Antenna (V/H)	Antenna Height (m)	EUT Position	Measured Level dB(μ V/m) Quasi-Peak	Limit Level dB(μ V/m)	Δ (dB)	Results (Pass/Fail)
2.803	N/A	1.0	0.00	17.9	49.5	-31.6	Pass
3.102	N/A	1.0	0.00	15.4	49.5	-34.1	Pass
5.556	N/A	1.0	0.00	15.1	49.5	-34.4	Pass
6.352	N/A	1.0	0.00	17.1	49.5	-32.4	Pass
6.817	N/A	1.0	0.00	16.6	49.5	-32.9	Pass
7.181	N/A	1.0	0.00	16.5	49.5	-33.0	Pass
8.011	N/A	1.0	0.00	16.5	49.5	-33.0	Pass
8.972	N/A	1.0	0.00	15.4	49.5	-34.1	Pass
9.835	N/A	1.0	0.00	14.0	49.5	-35.5	Pass
11.062	N/A	1.0	0.00	24.2	49.5	-25.3	Pass
11.825	N/A	1.0	0.00	45.4	49.5	-4.1	Pass
12.919	N/A	1.0	0.00	14.4	49.5	-35.1	Pass
13.649	N/A	1.0	0.00	13.3	49.5	-36.2	Pass
14.345	N/A	1.0	0.00	17.2	49.5	-32.3	Pass
16.601	N/A	1.0	0.00	17.7	49.5	-31.8	Pass
18.458	N/A	1.0	0.00	15.4	49.5	-34.1	Pass
19.453	N/A	1.0	0.00	15.9	49.5	-33.6	Pass
19.917	N/A	1.0	0.00	19.7	49.5	-29.9	Pass
20.846	N/A	1.0	0.00	18.4	49.5	-31.1	Pass
21.310	N/A	1.0	0.00	16.8	49.5	-32.7	Pass
21.509	N/A	1.0	0.00	18.7	49.5	-30.8	Pass
22.140	N/A	1.0	0.00	30.6	49.5	-18.9	Pass
22.571	N/A	1.0	0.00	20.4	49.5	-29.1	Pass
23.599	N/A	1.0	0.00	21.4	49.5	-28.1	Pass
23.964	N/A	1.0	0.00	21.1	49.5	-28.4	Pass
24.693	N/A	1.0	0.00	15.8	49.5	-33.7	Pass



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Frequency (MHz)	Antenna (V/H)	Antenna Height (m)	EUT Position	Measured Level dB(μ V/m) Quasi-Peak	Limit Level dB(μ V/m)	Δ (dB)	Results (Pass/Fail)
24.892	N/A	1.0	0.00	22.0	49.5	-27.5	Pass
25.556	N/A	1.0	0.00	15.7	49.5	-33.8	Pass
25.821	N/A	1.0	0.00	22.6	49.5	-27.0	Pass
26.252	N/A	1.0	0.00	21.6	49.5	-27.9	Pass
26.717	N/A	1.0	0.00	20.8	49.5	-28.7	Pass
27.181	N/A	1.0	0.00	22.8	49.5	-26.7	Pass
27.645	N/A	1.0	0.00	30.2	49.5	-19.3	Pass
28.110	N/A	1.0	0.00	20.8	49.5	-28.7	Pass
28.574	N/A	1.0	0.00	17.8	49.5	-31.7	Pass
29.038	N/A	1.0	0.00	16.7	49.5	-32.8	Pass
29.370	N/A	1.0	0.00	18.8	49.5	-30.7	Pass
29.503	N/A	1.0	0.00	19.2	49.5	-30.3	Pass
29.668	N/A	1.0	0.00	20.7	49.5	-28.8	Pass
29.735	N/A	1.0	0.00	24.0	49.5	-25.5	Pass
29.901	N/A	1.0	0.00	20.9	49.5	-28.6	Pass



Radiated Emissions Equipment List:

Property Number	Manufacturer	Make	Model	S/N	Cal. Date	Cal. Due
AN371	Emco	Active Rod Antenna	3301B	9607-3708	7/15/02	7/15/03
WA476A	Rohde & Schwarz	EMI Receiver Display	ESAI-D	842088/012	1/13/03	1/13/04
WA476	Rohde & Schwarz	EMI Receiver RF	ESBI-RF	14309	1/13/03	1/13/04



5. Test Equipment:

All test equipment used in the compiling of test data can be found in the test laboratory reports.

6. References:

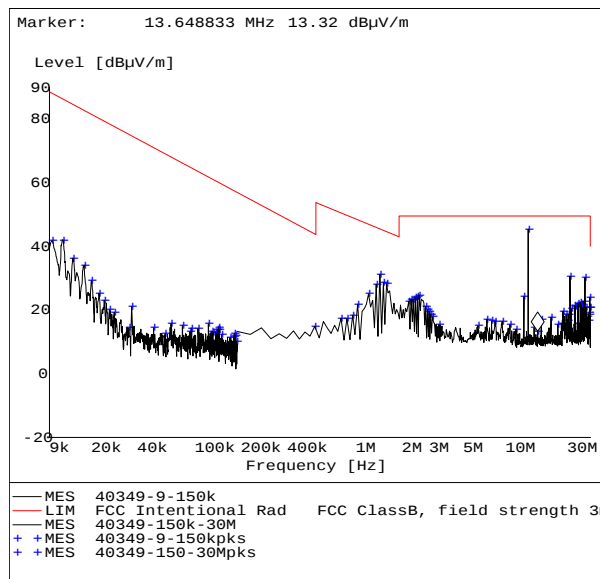
40349-04.AIT	EMC Test Report for EUT
FCC Part 15, Class B	FCC part 15- Radio Frequency Devices



Attachment 1, Test Data

Radiated Emissions

Radiated Emissions





Attachment 2, Photographs

Radiated Emissions

Radiated Emissions

