

MODEL MT300; CONDUCTED HARMONICS & SPURS @ OCCUPIED BANDWIDTH w/ 38%  
MODULATION @ 15 KHz, STEREO MODE, 300 W OUTPUT MKR  $\Delta$  100 MHz  
REF 4.0 dBm #ATTEN 20 dB -70.36 dB

PEAK  
LOG  
10  
dB/

TEST SET UP:

MT300

30 dB  
ATTENUATOR

10 dB PAD  
&  
NOTCH  
FILTER

SPECTRUM  
ANALYZER

MARKER  $\Delta$   
100 MHz  
-70.36 dB  
DL  
-62.5  
dBm

VA SB  
SC FC  
CORR

FCC  
LIMIT  
-67.8 dBc

START 85 MHz

STOP 1.085 GHz

#RES BW 30 kHz

#VBW 100 kHz

#SWP 10 sec

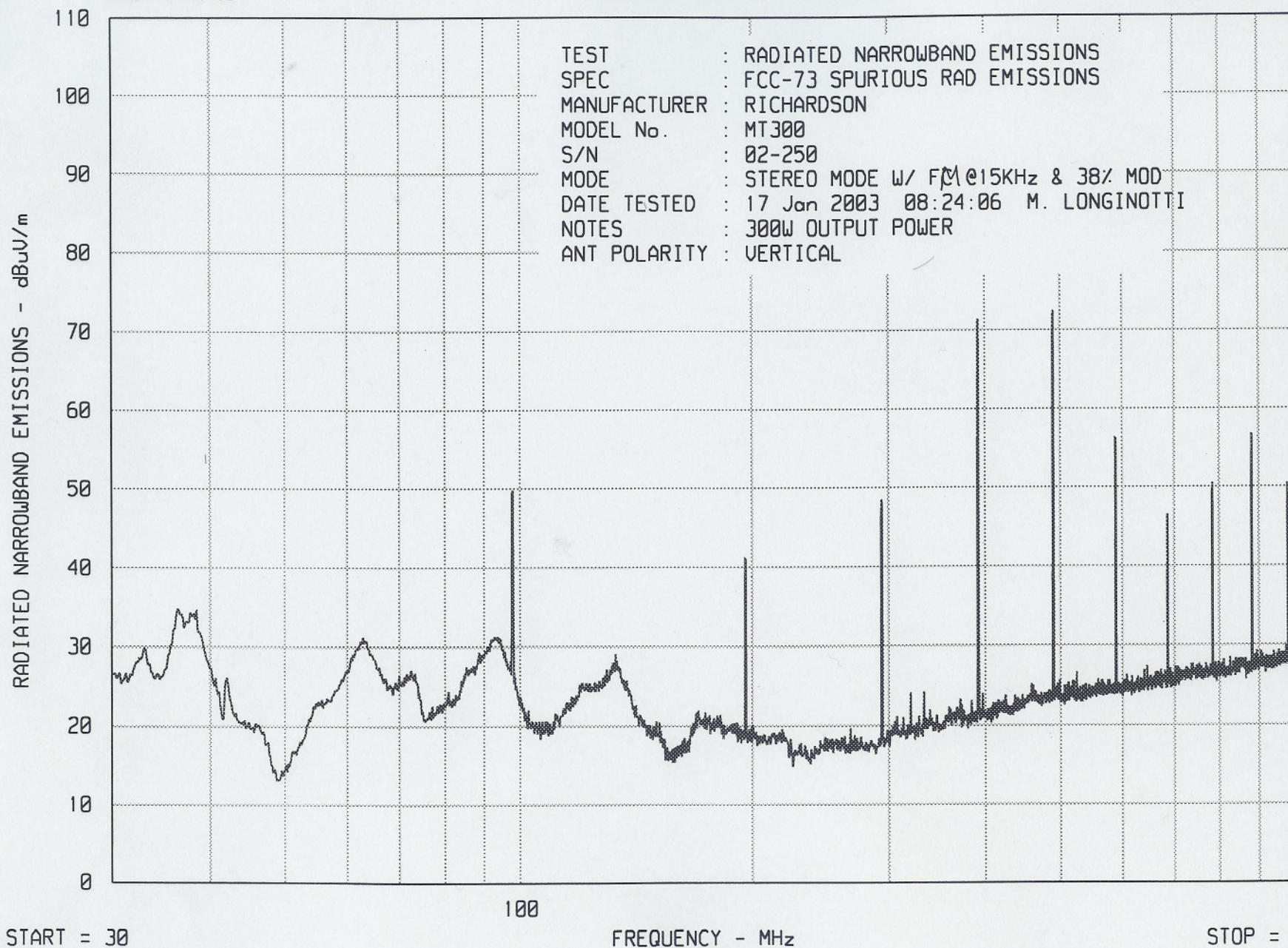


# ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNIU\_EM RUN RUN 1

WKA0 11/15/02





MANUFACTURER : RICHARDSON ELECTRONICS  
 MODEL : MT 300  
 S/N : 02-250  
 SPECIFICATION : FCC-73 OPEN FIELD SPURIOUS RADIATED EMISSIONS  
 DATE : JANUARY 17, 2003  
 NOTES : STEREO MODE WITH FM @ 15kHz & 38% MODULATION  
 : 300W OUTPUT POWER  
 : TEST DISTANCE IS 3 METERS

| FREQUENCY<br>MHz | ANT<br>POL | MTR<br>RDG<br>dBuV | ANT<br>FAC<br>dB | CABLE<br>FACTOR<br>dB | CONVERT<br>F.I. TO<br>dBm (DIPOLE) | TOTAL<br>dBm | LIMIT<br>dBm |
|------------------|------------|--------------------|------------------|-----------------------|------------------------------------|--------------|--------------|
| 196.0 V          |            | 39.4               | 10.2             | 0.9                   | 97.2                               | -46.7        | -13.0        |
|                  | H          | 46.0               | 10.2             | 0.9                   | 97.2                               | -40.1        | -13.0        |
| 294.0 V          |            | 51.3               | 14.1             | 1.1                   | 97.2                               | -30.7        | -13.0        |
|                  | H          | 60.0               | 14.1             | 1.1                   | 97.2                               | -22.0        | -13.0        |
| 392.0 V          |            | 55.2               | 16.5             | 1.3                   | 97.2                               | -24.2        | -13.0        |
|                  | H          | 47.1               | 16.5             | 1.3                   | 97.2                               | -32.3        | -13.0        |
| 490.0 V          |            | 54.3               | 18.7             | 1.4                   | 97.2                               | -22.8        | -13.0        |
|                  | H          | 48.6               | 18.7             | 1.4                   | 97.2                               | -28.5        | -13.0        |
| 588.0 V          |            | 33.7               | 19.6             | 1.6                   | 97.2                               | -42.3        | -13.0        |
|                  | H          | 31.5               | 19.6             | 1.6                   | 97.2                               | -44.5        | -13.0        |
| 686.0 V          |            | 27.4               | 20.5             | 1.8                   | 97.2                               | -47.5        | -13.0        |
|                  | H          | 27.6               | 20.5             | 1.8                   | 97.2                               | -47.3        | -13.0        |
| 784.0 V          |            | 31.1               | 21.4             | 1.8                   | 97.2                               | -42.9        | -13.0        |
|                  | H          | 36.5               | 21.4             | 1.8                   | 97.2                               | -37.5        | -13.0        |
| 882.0 V          |            | 39.3               | 22.3             | 2.0                   | 97.2                               | -33.6        | -13.0        |
|                  | H          | 38.6               | 22.3             | 2.0                   | 97.2                               | -34.3        | -13.0        |
| 980.0 V          |            | 29.1               | 23.1             | 2.0                   | 97.2                               | -43.0        | -13.0        |
|                  | H          | 30.0               | 23.1             | 2.0                   | 97.2                               | -42.1        | -13.0        |

\* - All measured emissions that were within 10dB of the limit were remeasured using the substitution method and the results are listed below

| FREQUENCY<br>MHz | ANT<br>POL | MTR<br>RDG<br>dBuV | MATCHED<br>SIGNAL<br>dBm | CABLE<br>FACTOR<br>dB | TOTAL<br>dB | LIMIT<br>dB |
|------------------|------------|--------------------|--------------------------|-----------------------|-------------|-------------|
| 294.0 H          |            | 60.0               | -21.2                    | 2.7                   | -23.9       | -13.0       |
| 490.0 V          |            | 54.3               | -20.4                    | 3.6                   | -24.0       | -13.0       |

Checked By:

*Mark E. Longinotti*  
 Mark E. Longinotti

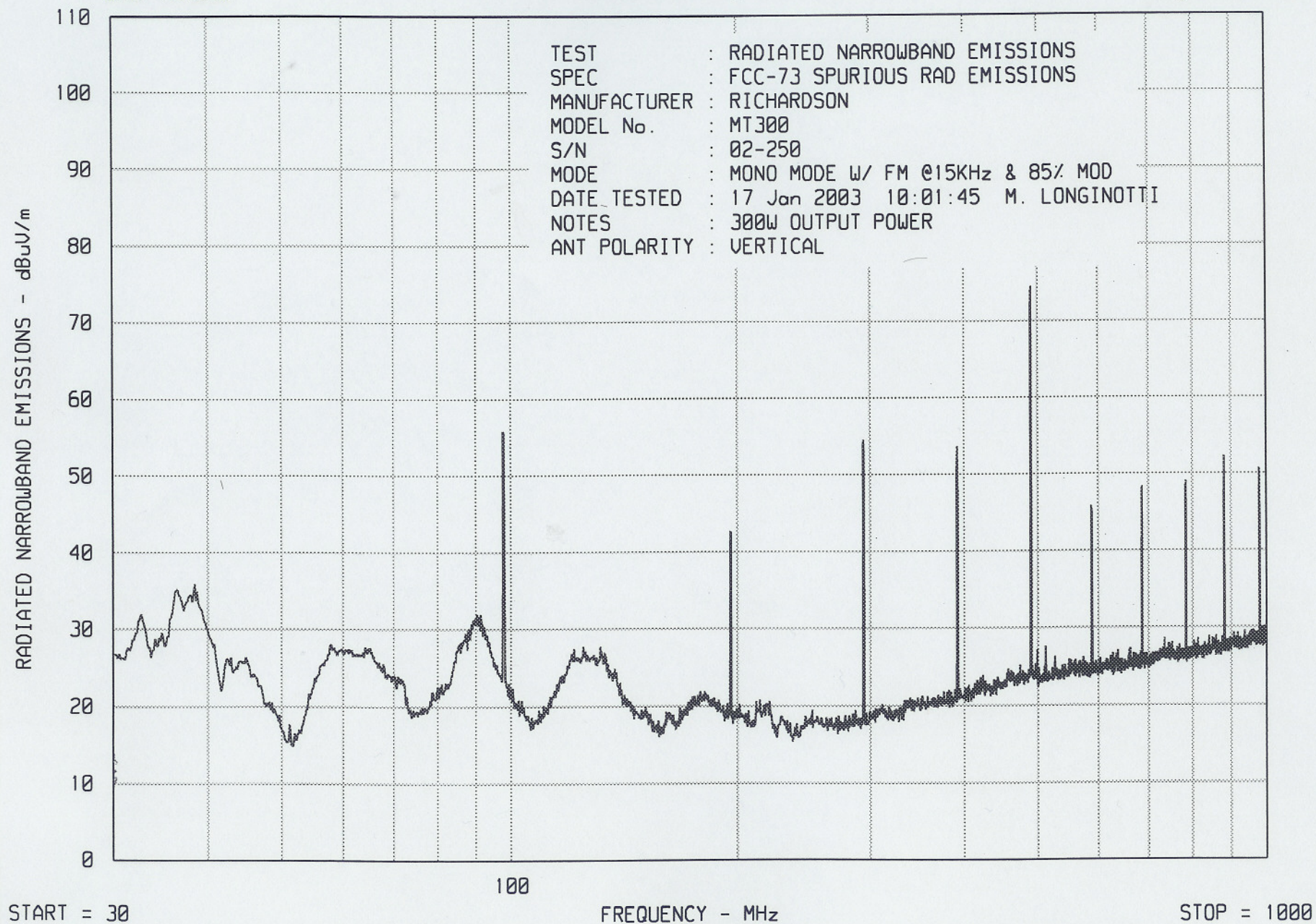


## ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNIV\_EM RUN RUN 1

WKA0 11/15/02





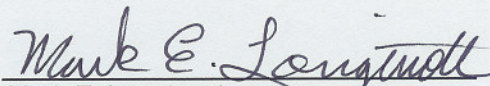
MANUFACTURER : RICHARDSON ELECTRONICS  
 MODEL : MT 300  
 S/N : 02-250  
 SPECIFICATION : FCC-73 OPEN FIELD SPURIOUS RADIATED EMISSIONS  
 DATE : JANUARY 17, 2003  
 NOTES : MONO MODE WITH FM @15kHz & 85% MODULATION  
 : 300W OUTPUT POWER  
 : TEST DISTANCE IS 3 METERS

| FREQUENCY<br>MHz | ANT<br>POL | MTR<br>RDG<br>dBuV | ANT<br>FAC<br>dB | CABLE<br>FACTOR<br>dB | CONVERT<br>F.I. TO<br>dBm (DIPOLE) | TOTAL<br>dBm | LIMIT<br>dBm |
|------------------|------------|--------------------|------------------|-----------------------|------------------------------------|--------------|--------------|
| 196.0            | V          | 38.4               | 10.2             | 0.9                   | 97.2                               | -47.7        | -13.0        |
|                  | H          | 45.0               | 10.2             | 0.9                   | 97.2                               | -41.1        | -13.0        |
| 294.0            | V          | 48.6               | 14.1             | 1.1                   | 97.2                               | -33.4        | -13.0        |
|                  | H          | 58.1               | 14.1             | 1.1                   | 97.2                               | -23.9        | -13.0        |
| 392.0            | V          | 56.4               | 16.5             | 1.3                   | 97.2                               | -23.0        | -13.0        |
|                  | H          | 52.7               | 16.5             | 1.3                   | 97.2                               | -26.7        | -13.0        |
| 490.0            | V          | 55.6               | 18.7             | 1.4                   | 97.2                               | -21.5        | -13.0 *      |
|                  | H          | 49.8               | 18.7             | 1.4                   | 97.2                               | -27.3        | -13.0        |
| 588.0            | V          | 36.0               | 19.6             | 1.6                   | 97.2                               | -40.0        | -13.0        |
|                  | H          | 33.0               | 19.6             | 1.6                   | 97.2                               | -43.0        | -13.0        |
| 686.0            | V          | 28.8               | 20.5             | 1.8                   | 97.2                               | -46.1        | -13.0        |
|                  | H          | 29.3               | 20.5             | 1.8                   | 97.2                               | -45.6        | -13.0        |
| 784.0            | V          | 35.3               | 21.4             | 1.8                   | 97.2                               | -38.7        | -13.0        |
|                  | H          | 41.6               | 21.4             | 1.8                   | 97.2                               | -32.4        | -13.0        |
| 882.0            | V          | 37.0               | 22.3             | 2.0                   | 97.2                               | -35.9        | -13.0        |
|                  | H          | 38.9               | 22.3             | 2.0                   | 97.2                               | -34.0        | -13.0        |
| 980.0            | V          | 29.1               | 23.1             | 2.0                   | 97.2                               | -43.0        | -13.0        |
|                  | H          | 30.5               | 23.1             | 2.0                   | 97.2                               | -41.6        | -13.0        |

\* - All measured emissions that were within 10dB of the limit were remeasured using the substitution method and the results are listed below

| FREQUENCY<br>MHz | ANT<br>POL | MTR<br>RDG<br>dBuV | MATCHED CABLE<br>SIGNAL<br>dBm | FACTOR<br>dB | TOTAL<br>dB | LIMIT<br>dB |
|------------------|------------|--------------------|--------------------------------|--------------|-------------|-------------|
| 490.0            | V          | 55.6               | -19.1                          | 3.6          | -22.7       | -13.0       |

Checked By:

  
 Mark E. Longinotti







# Statement of Conformity

This equipment has been tested in accordance with the requirements contained in the appropriate Commission regulations. To the best of my knowledge, these tests were performed using measurement procedures consistent with industry or Commission standards and demonstrates that the equipment complies with industry standards as specified herein. I further certify that the listed measurements were made by the following company and at the following test location.

Company: ELITE ELECTRONIC ENGINEERING

Location: DOWNERS GROVE, ILLINOIS

Type of Equipment: FM TRANSMITTER

Model Number: MT300

Test Engineer: MARK LONGINOTTI

| Test Performed            | FCC Reference                  | Status |
|---------------------------|--------------------------------|--------|
| Radiation Test            | Parts 2.989,2.993,2.997,73.317 | Passed |
| Frequency vs. Temperature | Parts 2.995 & 73.1545          | Passed |

Comments: \_\_\_\_\_

Witness: CHARLES ANZALONE <sup>EA</sup>

Company: RICHARDSON ELECTRONICS

Location: LA FAY, ILLINOIS