

Retlif Testing Laboratories

795 Marconi Avenue, Ronkonkoma, N.Y. 11779 (516) 737- 1500 - FAX 516-737-1497 (Branch Office) 101 New Boston Road, Goffstown, N.H. 03045 (603) 497-4600 - FAX (603) 497-5281

FCC COMPLIANCE TEST REPORT ON A

8.2 MHZ SWEPT RF TRANSMITTER/RECEIVER MODEL: SENTECH MODEL "X" AISLE FCC ID: J3Q3701

| CUSTOMER NAME: | North American Technical Services |
|-------------------------|-----------------------------------|
| CUSTOMER P.O.: | 0198 |
| DATE OF REPORT: | April 23, 1998 |
| TEST REPORT NO.: | R-7387, Rev. A |
| TEST START DATE: | January 16, 1998 |
| TEST FINISH DATE: | January 20, 1998 |
| TEST TECHNICIAN: | D. Cortes |
| TEST ENGINEER: | T. Schneider |
| SUPERVISOR: | R.J. Reitz |
| REPORT PREPARED BY: | L. Anderson |
| GOVERNMENT SOURCE INSPE | CTION: Not Applicable |

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CERTIFICATION AND SIGNATURES

We certify that this report is a true report of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.

Thomas J. Schneider EMC Test Engineer

NVLAP Approved Signatory

Richard J. Reitz Laboratory Manager

NVLAP Approved Signatory

NON-WARRANTY PROVISION

The testing services have been performed, findings obtained, and reports prepared in accordance with generally accepted testing laboratory principles and practices. This warranty is in lieu of all other warranties, either express or implied.

NON-ENDORSEMENT

This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation endorsement, or certification of the product or material tested. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.



Retlif Testing Laboratories

REPORT No. R-7387

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| | Exhibit 5 |
| - | Report of Measurements |
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| | Radiated Emissions, Spurious Case |
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| | Retlif Testing Laboratories |
| - | REPORT No. R-7387 |

| APPLICANT | MANUFACTURER | |
|--|--|--|
| KNOGO North America 350 Wireless Boulevard Hauppauge, NY 11788 | KNOGO North America 350 Wireless Boulevard Hauppauge, NY 11788 | |

TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C

TEST PROCEDURE: ANSI C63.4:1992

TEST SAMPLE DESCRIPTION

BRANDNAME: KNOGO MODEL: Sentech Model "X" Aisle

TYPE: 8.2 MHz Swept RF Transmitter/Receiver

POWER REQUIREMENTS: 115 VAC, 60 Hz, Single Phase

FREQUENCY OF OPERATION: 8.2 MHz (1.705 to 10 MHz Band)

TESTS PERFORMED

Para. 15.223(a), Radiated Emissions, Fundamental (1.705 to 10 MHz Band)

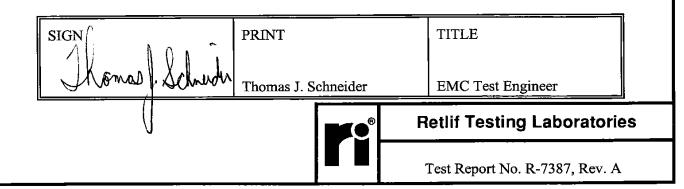
Para. 15.223(b), Radiated Emissions, Spurious Case (1.705 to 10 MHz Band)

Para. 15.223, Occupied Bandwidth

Para. 15.207(a), Conducted Emissions, 450 kHz to 30 MHz

I HEREBY CERTIFY THAT: The measurements shown here were in accordance with the procedure indicated and that the energy emitted by this equipment was found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.

I FURTHER CERTIFY THAT: On the basis of the measurements made, the device tested is capable of operation in compliance with the requirements of Part 15 of the FCC Rules under normal use and maintenance.



REPORT OF MEASUREMENTS

Applicant:

KNOGO North America

Device:

8.2 MHz Swept RF Transmitter/Receiver

FCC ID:

J3Q3701

Power Requirements:

115 VAC, 60 Hz, Single Phase

Applicable Rule Section:

Part 15, Subpart C, Section 15.223

TEST RESULTS

15.223 (a) -

The field strength of any emission did not exceed 891 microvolts/meter at a distance of 10 meters (100 microvolts at 30 meters) in the 1.705 to 10

MHz frequency band.

15.223(b) -

The field strength outside the band 1.705 to 10 MHz did not exceed the

general radiated emissions limits in 15.209.

15.207(a) -

The radio frequency voltage that was conducted back on to the AC power

line on any frequency (frequencies) within the band 450 kHz to 30 MHz

did not exceed 250 microvolts.

MODIFICATIONS MADE TO TEST SAMPLE TO ENSURE COMPLIANCE:

- 1) Internal cables were rerouted as in normal installation.
- 2) A Ferrite, manufactured by Fair-Rite P/N: 0443164151, was placed on the receive antenna leads.

GENERAL NOTES:

- 1) All readings above 30 MHz were taken utilizing a quasi-peak detector function at test distance of 3 meters. Below 30 MHz measurements were taken utilizing a peak detector function at test distance of 10 meters and extrapolated to 30 meters via 40 log (d_2/d_1) .
- 2) The frequency was scanned from 1.705 to 1000 MHz. All emissions not reported were more than 20dB below the specified limit.



Retlif Testing Laboratories

Test Report Number R-7387, Rev. A

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| l | Exhibit 5 |
| - | Report of Measurements |
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| - | Radiated Emissions, Fundamental |
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| | Retlif Testing Laboratories |
| | REPORT No. R-7387 |

DATA SHEET 1 OF 1

| | | | | | R DATA | | | | | |
|--|--|---|--|-----------------------|--|--|------------------------|----------------------|-------|--|
| EST METH | | | | nissions, 1.705 | · | - FR | | | | |
| CUSTOMER | | | | Services (Kno | | o.: R-7387 | -: <u>-</u> | | | |
| TEST 8.2 Mhz Swept RF Transmitter / Receiver SAMPLE: | | | | | | | | | | |
| MODEL No.: TX97 / RV97 SERIAL No.: FCC ID:J3Q3701-SI | | | | | | J3Q3701-SLIML | INE | | | |
| TEST SPECIFICAT | | FCC Part 15, Subpart C PARAGRAPH: 15.223(a) | | | | | | | | |
| OPERATING Continuo MODE: | | itinuous | ly Transmitting CW Signal at Frequencies specified below | | | | | | | |
| FECHNICIAN | N: Der | nis Co | rtes 1 | | DATE: | January | 20, 1998 | | | |
| NOTES: | Det Tes | ector F t Distar | unction: Quasi nce: 10 Meters | Peak (Extrapolated | to 30 meters via | (40 log d2/d1))= | Factor of -19.0 | dB | | |
| Test Frequency | Antenna Position | | Turntable Position | Meter Reading | Correction Factor | Corrected Reading | 30 Meter Equivalent | Converted Reading | Limit | |
| MHz | (H/V/C) - H | eight | Degrees | dBuV | dB | dBuV/m | dBuV/m | uV/m | uV/m | |
| 1.705 | | | | | | | | | 100 | |
| | | \perp | | | | | | | | |
| V | 0.40 | - | 270 | | -9.6 | 55.6 | 36.6 | 67.6 | | |
| 7.400 9.100 | C-1.0 C-1.0 | | <u>270</u> 270 | 65.2 63.5 | -9.6 -9.7 | 53.8 | 34.8 | 54.9 | | |
| _3.100 | <u> </u> | | | | J., | | <u></u> | | | |
| | | | | | | | | | V | |
| 10.000 | | | | | | | | | 100 | |
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| | The freq | uency | range was so | canned from 1 | .705 MHz to 10 |) MHz | | | | |
| | Emission | ıs ob <u>s</u> | <u>erved from th</u> | <u>e EUT do not</u> | exceed the spe | ecified limit. | | | | |
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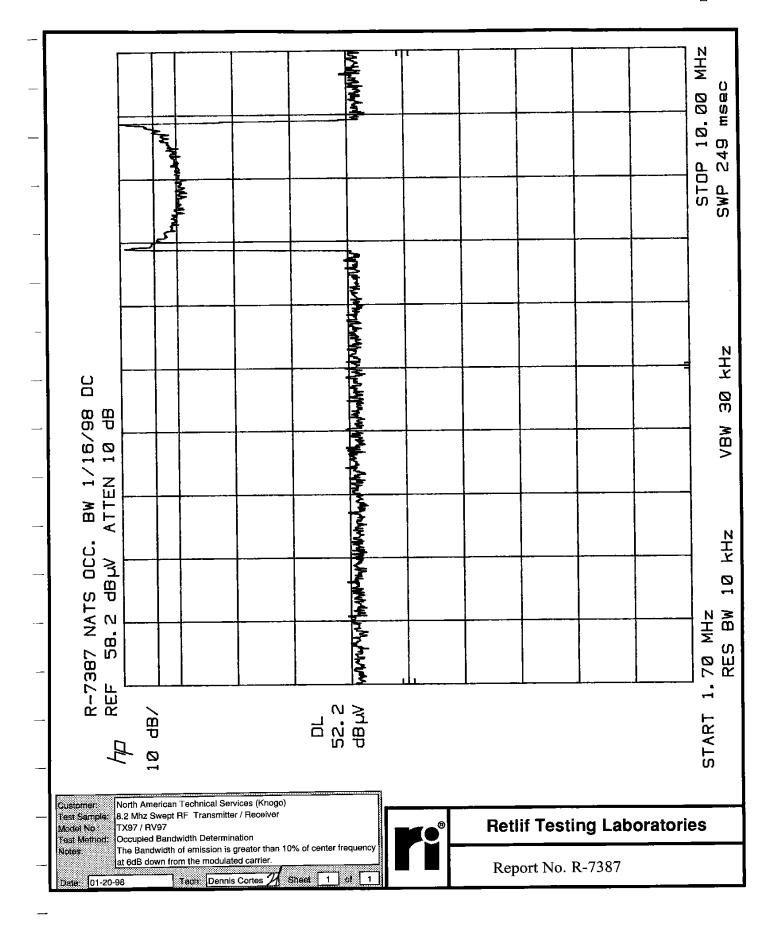
| Report of Measurements Radiated Emissions, Spurious Case | |
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| Exhibit 5 Report of Measurements Radiated Emissions, Spurious Case | |
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| REPORT No. R-7387 | s |

DATA SHEET 1 OF 2

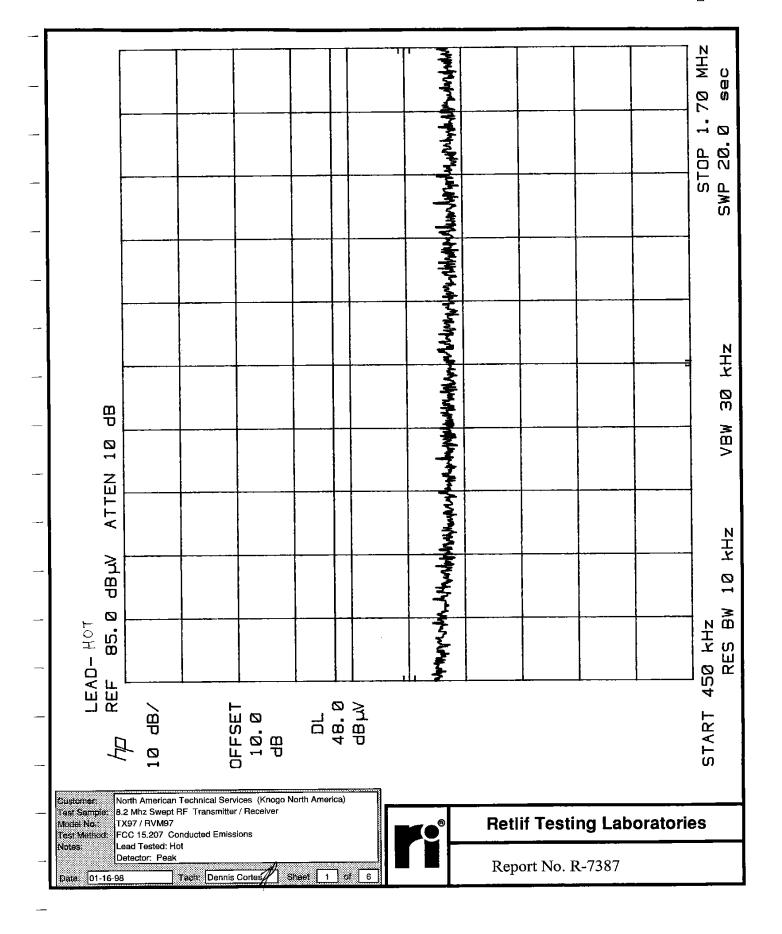
| | FCC D1 | 15 Radiated Em | | R DATA | | | |
|--|---------------------|------------------------------------|----------------------|------------------------|----------------------|----------------------|----------------------|
| EST METHO | | | · — — — | | R-7387 | | |
| USTOMER: | | erican Technical | | | 7 [X 7001 | | |
| TEST 8.2 Mhz Swept RF Transmitter / Receiver SAMPLE: | | | | | | | |
| MODEL No.: TX97 / RV97 SERIAL No.: FCC ID:J3Q3701-SLIMLINE TEST SPECIFICATION: PARAGRAPH: 15.209(a) | | | | | | | |
| | | | | | | | |
| OPERATING Continuously Transmitting Swept RF Signal | | | | | | | |
| ECHNICIAN: | Dennis Co | ortes 2 | | DATE: | January | 20, 1998 | _ _ |
| IOTES: | Detector | Function: Quasi- ance: 3 Meters | Peak | | | | |
| Test Frequency | Antenna Position | Turntable Position | Meter Reading | Correction Factor | Corrected Reading | Converted Reading | Limit |
| | | Degrees | dBuV | dB | dBuV/m | uV/m | uV/m |
| MHz | (H/V) - Height | Dollices | | | | | 30 |
| 1.70 | | | | | | | |
| | | | | | | | |
| 5.60_ | V-1.0 | 270 | <u>36.3</u> | <u>-9.3</u> | <u>27.0</u> | 22.4 | - + + |
| - ! | | | | | | | |
| V | | | | | | | 30 |
| 30.00 30.00 | | | | | | | |
| | | | | | | | |
| V | | | | 0.5 | 31.5 | 37.6 | |
| <u>40.90</u> | V-1.0 | 1 <u>58</u> | 41.0 38.5 | -9.5 -12.3 | 26.2 | 20.4 | |
| 51.63 | V-1.0 V-1.0 | 225 203 | 46.8 | -12.5 | 34.3 | 51.9 | |
| 55.75 60.45 | V-1.0 | 113 | 36.5 | 12.6 | 23.9 | 15.7 | |
| 67.75 | V-1.0 | 113 | 30.1 | -11 <u>.5</u> | 18.6 | 8.5 | |
| 74.25 | V-1.0 | 158 | 31.0 | -10.9 | 20.1 | 10.1 | |
| 77 <u>.6</u> 0 | V-1,0 | 135 | 33.2 | -10.7 | 22.5 26.7 | 13.3 | |
| 83.25 | <u>V-1.0</u> | <u> 158</u> | 37.3 | -10 <u>.6</u> | 20.1 | 21.0 | |
| | | | | | | | <u>_</u> |
| 88.00 | | | † | | | | 100 |
| 88.00 | | | | | | <u> </u> | 150_ |
| | | | <u> </u> | _ | | - | - + + |
| V | | | 400 | 14.4 | 28.9 | 27.9 | - - - |
| 104.65 | V-1.0 | 225 | 4 <u>0.3</u> 39.8 | - <u>11.4</u> -11.6 | 28.2 | 25.7 | |
| 108.80 | V-1.0 V-1.2 | 248 203 | 40.2 | -11.4 | 28.8 | 27.5 | |
| 117.00 120.00 | V-1.2 V-1.0 | 180 | 39.0 | -11.3 | 27.7 | 24.3 | |
| 130.00 | V-1.0 | 225 | 35.6 | -10.3 | 25.3 | 18.4 | |
| 137.70 | V-1.3 | 135 | 29.6 | _8.9 | 20.7 | 10.8 | |
| 1 <u>42.49</u> | V-1.0 | 338 | 32.9 | -8.2 | 24.7 23.7 | 17.2 15.3 | |
| 145.20 | V-1.0 | 180 | 31.8 33.3 | <u>-8.1</u> -7.9 | 25.4 | 18.6 | |
| 150.10 | V-1.0 V-1.0 | 135 158 | 34.5 | -8.9 | 25.6 | 19.1 | |
| 160.10 166.75 | V-1.0 V-1.0 | 158 | 37.3 | -9.1 | 28.2 | 25.7 | |
| 1 <u>71.48</u> | V-1.0 | 158 | 34.0 | -9.2 | 24.8 | 17.4 | <u>150</u> |
| | | | <u> </u> | <u> </u> | | | |
| | The frequence | y range was s | canned from | 1.705 MHz to 1 | GHZ. | <u> </u> | |
| | <u> </u> | <u>served from t</u> | ne <u>EUI do no</u> | t exceed the sp | ecineu illilit. | | |

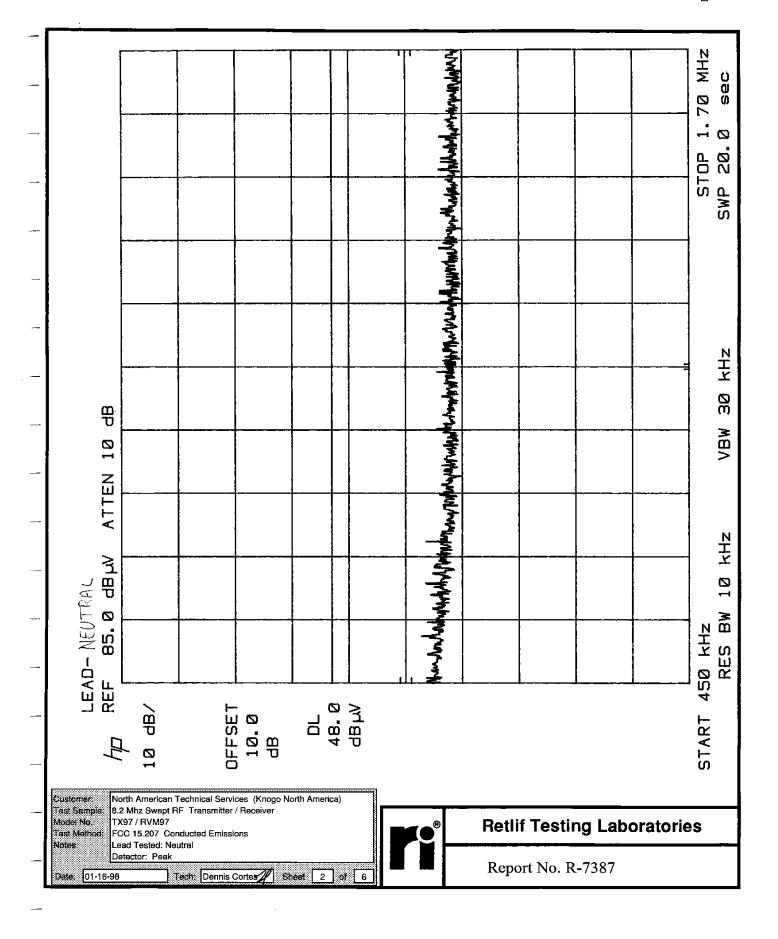
| | | | TABULA | R DATA | SHEET | <u> </u> | | | | |
|--|---|---|--|--|----------------------|--|--------------|--|--|--|
| EST METHO | DD: FCC Part | 15 Radiated En | nissions, 1.705 | Mhz to 1 GHz | | | | | | |
| CUSTOMER: | North American Technical Services (Knogo) JOB No.: R-7387 | | | | | | | | | |
| 1. | | Swept RF Trans | | | <u></u> | | | | | |
| ľEST SAMPLE: | 8.2 10112 3 | Swept RF Transi | Tilliter / Necerver | | | | | | | |
| MODEL No.: TX97 / RV97 SERIAL No.: FCC ID J3Q3701-SLIMLINE | | | | | | | | | | |
| TEST FCC Part 15, Subpart C SPECIFICATION: PARAGRAPH: | | | | | | RAPH: 15.209(a) | | | | |
| | L | | | | TAINOI | 01111. 10.200(1) | | | | |
| OPERATING MODE: | Continuo | Continuously Transmitting Swept RF Signal | | | | | | | | |
| TECHNICIAN | I: Dennis C | Dennis Cortes DATE: January 20, 1998 | | | | | | | | |
| NOTES: | | Function: Quasi ance: 3 Meters | -Peak | · <u>-</u> | · | | | | | |
| | | | | | | 0 | Limit | | | |
| Test Frequency | Antenna Position | Turntable Position | Meter Reading | Correction Factor | Corrected Reading | Converted Reading | Littin | | | |
| MHz | (H/V) - Height | Degrees | dBu√ | dB | dBuV/m | uV/m | uV/m | | | |
| 173.75 | V-1.0 | 158 | 32.8 | -9.1 | 23.7 | 15.3 | _150 | | | |
| 200.00 | H-1.2 | 090 | 29.3 | -8.1 | 21.2 | 11.5 | | | | |
| | | | | | | | | | | |
| v | | | | | ļ | _ | V | | | |
| 216.00 | | | | <u></u> | | | 150 | | | |
| 216,00 | | | | <u> </u> | | | 200 | | | |
| | | | | | | | | | | |
| | 1144 | 293 | 33,3 | -6.9 | 26.4 | 20.9 | | | | |
| 236.00 263.00 | H-1.1 H-1.5 | 090 | 42.3 | -5.9 | 36.4 | 66.1 | | | | |
| 277.30 | H-1.4 | 090 | 39.3 | -5.4 | 33.9 | 49.5 | | | | |
| 278.70 | V-1.1 | 158 | 42.8 | -5.4 | 37.4 | 74.1 | | | | |
| 299.80 | H-1.9 | 090 | 47.2 | -4.7 | 42.5 | 133.4 | | | | |
| 311.80 | H-1.7 | 113 | 41.0 | -3.9 | 37.1 | 71.6 | | | | |
| 337.30 | H-2.1 | 090 | 28.5 | 3.0 | 25.5 | 18.8 | | | | |
| 359,00 | H-2.1 | 113 | 39.6 | -3,0 | 36.6 | 67.6 | | | | |
| 398.50 | <u>H-1.2</u> | 090 | 42.4 | -1.0 | 41.4 | 117.5 | | | | |
| 409.30 | H- <u>1.0</u> | 090 | 41.0 | -0.7 | 40.3 | 103.5 | | | | |
| <u>428.80</u> | H-1.5 | 090 | 38.6 | -0.3 | 38.3 | 82.2 | | | | |
| 44 <u>1.50</u> | H-1.7 | 113 | 38.2 | -0.2 | 38.0 | 79.4 | | | | |
| 481.30 | H-1.5 | 090 | 38.0 | 0.6 | 38.6 34.5 | 85.1 53.1 | | | | |
| 496.30 | H-1.5 | 090 | 33.8 | 0.7 | 34.5 | 68.4 | | | | |
| 504.00 | H-1.0 H-1.0 | 090 068 | 35.8 37.8 | 1.7 | 39.5 | 94.4 | | | | |
| 536.20 548.00 | H-1.0 | 068 | 39.6 | 1.8 | 41.4 | 117.5 | | | | |
| 560.00 | H-1.8 | 090 | 40.2 | 1.8 | 42.0 | 125.9 | | | | |
| 568.10 | H-1.0 | 090 | 39.8 | 1,9 | 41.7 | 121.6 | | | | |
| 579.00 | H-1.2 | 090 | 38.9 | 1.9 | 40.8 | 109.6 | | | | |
| 590.00 | H-1.2 | 090 | 31.4 | 2.1 | 33,5 | 47.3 | | | | |
| 601.30 | <u>H-1.2</u> | _090 | 42.6 | 2.2 | 44.8 | 173.8 | | | | |
| 620.30 | H-1.3 | 045 | _35.1 | 2.8 | 37.9 | 78.5 | | | | |
| 642.00 | H-1.3 | 068 _ | 36.6 | 3.2 | 39.8 | 97.7 | | | | |
| <u>654.10</u> | H-1.5 | 068 | 35.8 | 3.3 | 39.1 | 90.2 | | | | |
| 664.00 | H-1.5 | 068 | 34.9 | 3.5 | 38.4 | 83.2 | | | | |
| - !. | | | | | | | | | | |
| V | - | - | | + | | | 200 | | | |
| 960.00 | The factors | <u> </u> | conned from 1 | .705 <u>MHz</u> to 1 | L.—— | <u> </u> | 200 | | | |
| 9 <u>60.00</u> | | | | exceed the sp | | | - 200 | | | |
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| 1000.00 | - | | | | | | 500 | | | |
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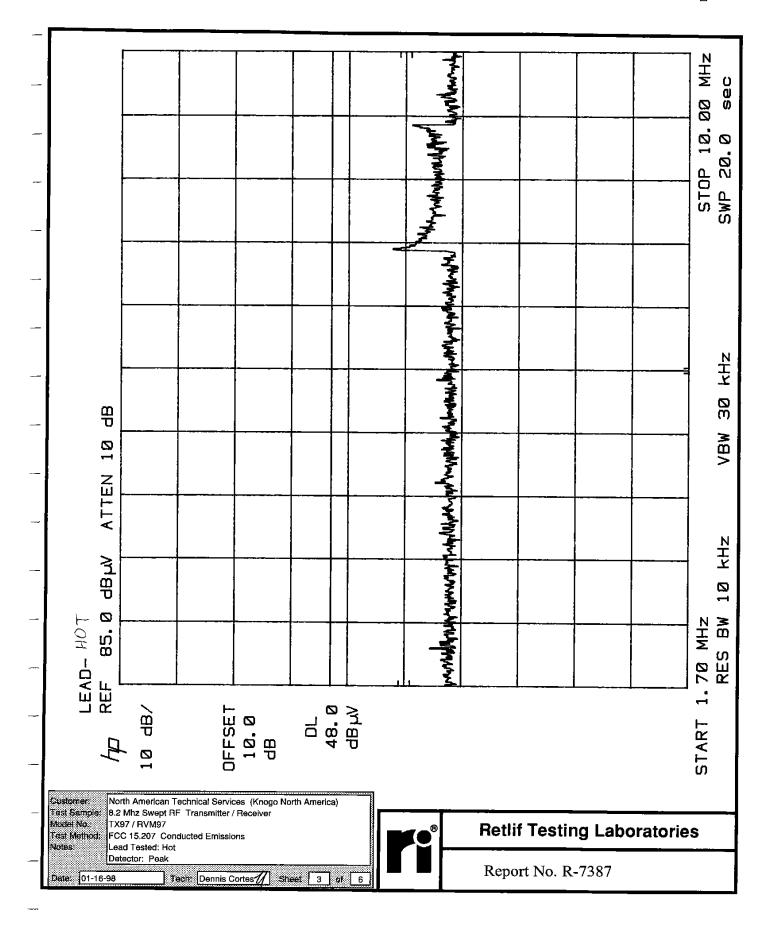
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| - | Exhibit 5 |
| - | Report of Measurements |
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| - | Occupied Bandwidth |
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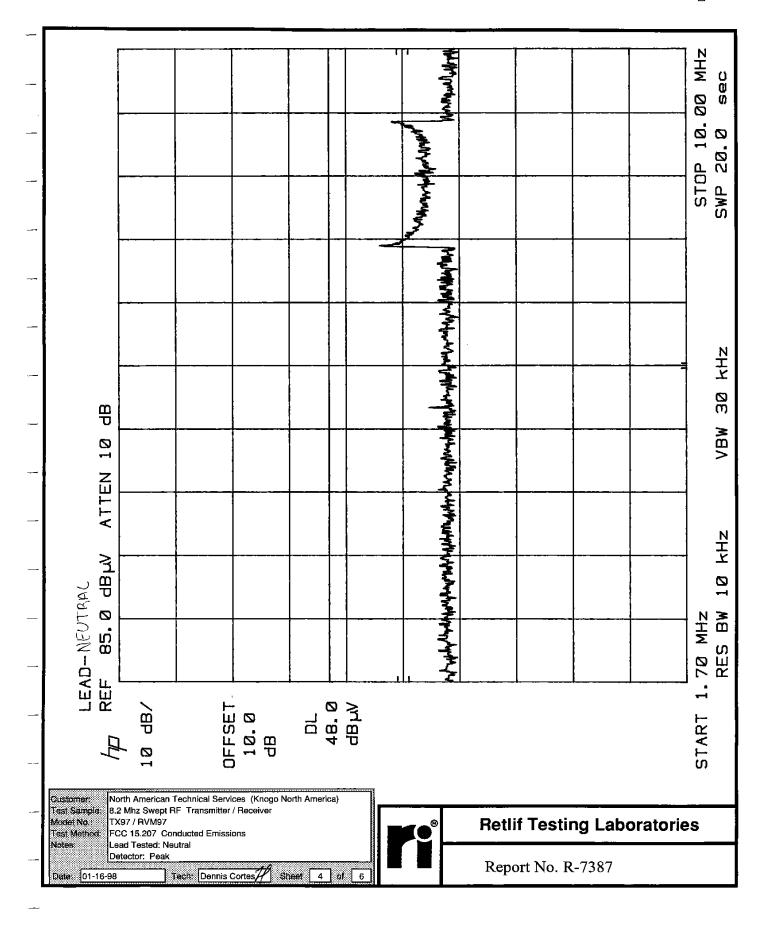


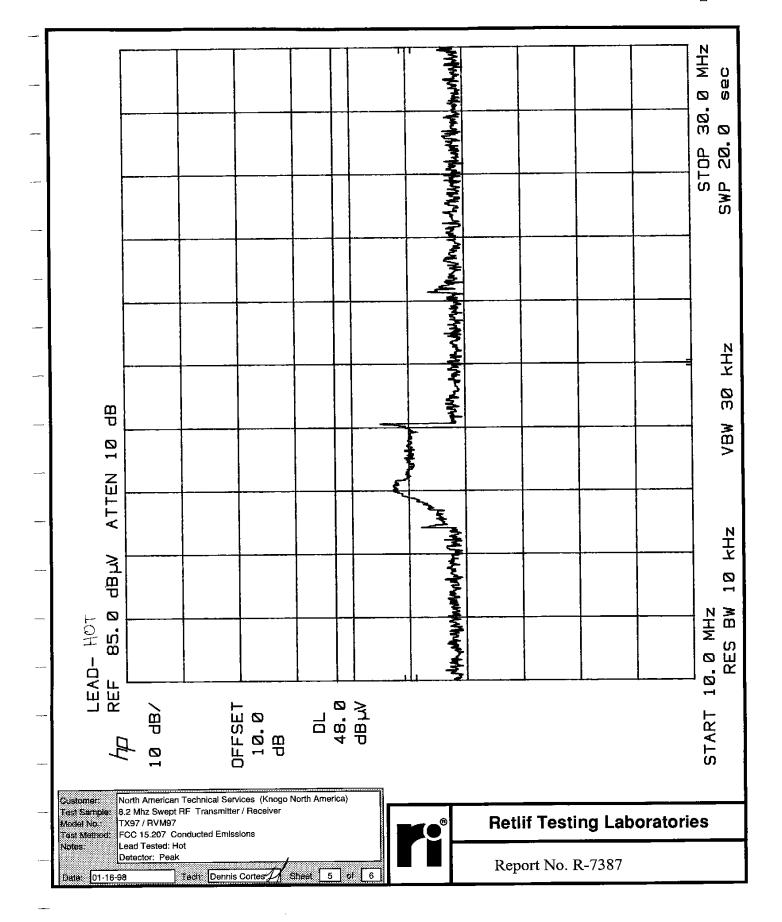
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| - | Exhibit 5 |
| - | Report of Measurements |
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| - | Conducted Emissions |
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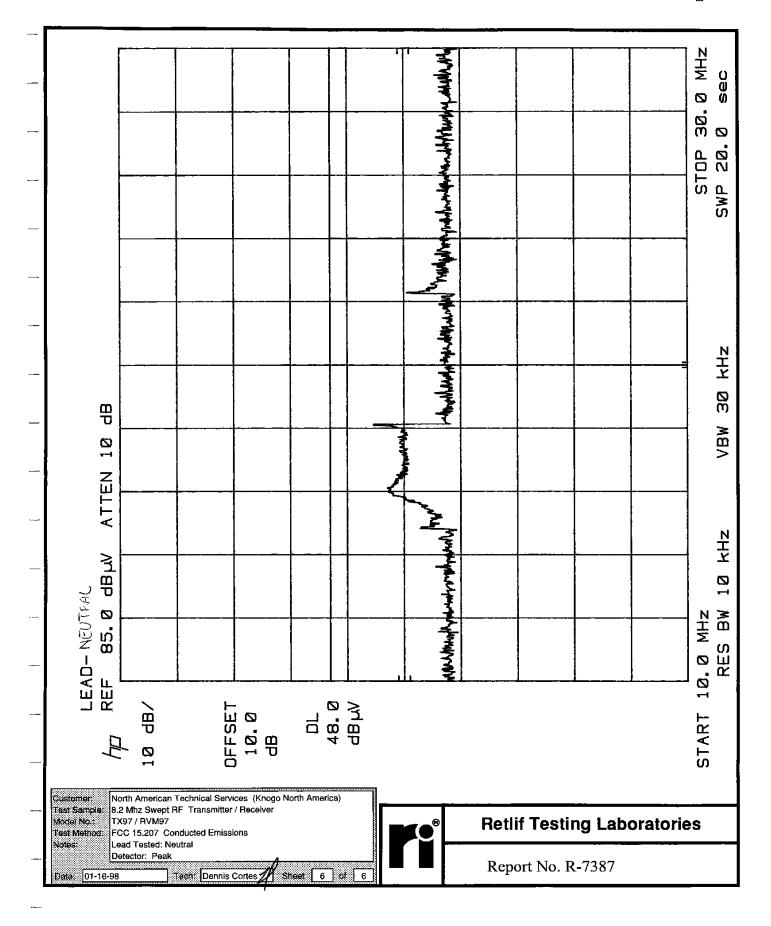


Exhibit 5
TEST EQUIPMENT LIST



Retlif Testing Laboratories

REPORT No. R-7387

TEST EQUIPMENT LIST

| EN | Model No. | Type | Manufacturer | Frequency Range | Serial No. | Cal. Date | Due Date |
|------|----------------|-------------------------|-------------------|----------------------|------------|-----------|----------|
| 012 | 6502 | Loop Antenna, Active | ЕМСО | 9 kHz - 30 MHz | 2255 | 10/10/97 | 10/10/98 |
| 067 | RNY | Open Area Test Site | Retlif | 3 Meter | 001 | 08/30/97 | 08/30/99 |
| 078 | 8028-50-TS24BN | LISN | Solar Electronics | 10 kHz - 30 MHz | 849578 | 05/05/97 | 05/05/98 |
| 092H | LP-105 | Loop Antenna | Empire Devices | 150 kHz - 30 MHz | 012 | 06/09/97 | 06/09/98 |
| 133 | BPA-1000 | Broadband Pre-Amplifier | Electro-Metrics | 10 kHz - 1 GHz, 26dB | 174 | 06/20/97 | 06/20/98 |
| 141 | 8566B | Spectrum Analyzer | Hewlett Packard | 100 Hz - 40 GHz | 2637A03491 | 09/03/97 | 03/03/98 |
| 141A | 7470A | Graphics Plotter | Hewlett Packard | N/A | 2517A07605 | 03/04/97 | 03/04/98 |
| 141B | 85650A | Quasi-Peak Adaptor | Hewlett Packard | 100 Hz - 1 GHz | 2521A00862 | 09/04/97 | 03/04/98 |
| 202 | 11947A | Transient Limiter | Hewlett Packard | .009 MHz - 200 MHz | 2820A00353 | 08/21/97 | 08/21/98 |
| 206B | FP-50 - 6 dB | 6.0 dB Attenuator | Texscan | 0 - 1.0 GHz | 5785 | 06/20/97 | 06/20/98 |
| 513 | 8028-50-TS24BN | LISN | Solar Electronics | 50 Hz - 400 Hz | 953932 | 11/03/97 | 11/03/98 |
| 523 | 3143 | Biconilog | Electro-Mechanics | 26 MHz - 1100 MHz | 9602-1234 | 09/30/97 | 09/30/98 |
| 544 | 8591EM | EMC Analyzer | Hewlett Packard | 9.0 kHz - 1.8 GHz | 3628A00844 | 08/11/97 | 08/11/98 |
| 575 | 7470A | Graphics Plotter | Hewlett Packard | | 2308A25049 | 04/30/97 | 04/30/98 |



Retlif Testing Laboratories

REPORT No. R-7387

REVISION HISTORY

April 23, 1998, Revision A:

The Model Number and FCC ID Number for the device have been changed as follows:

OLD MODEL NUMBER

NEW MODEL NUMBER

TX97/RV97

Sentech Model "X" Aisle

OLD FCC ID

NEW FCC ID

J3Q3701-SLIMLINE

J3Q3701

ALL REFERENCES TO THE OLD MODEL NUMBER AND FCC ID SHOULD BE REPLACED BY THE NEW ONES.



Retlif Testing Laboratories

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