

TEST REPORT
FROM
SIEMIC

For

SafeTLink Ethernet + FT1

To

47 CFR 90 Subpart Y

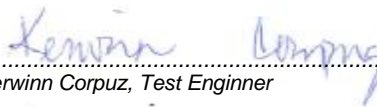
Test Report Serial No.:
SL05091301-LPN-001


This report supersedes none

Remarks:

| | |
|---|-------------------------------------|
| Equipment complied with the specification | <input checked="" type="checkbox"/> |
| Equipment did not comply with the specification | <input type="checkbox"/> |

This Test Report is Issued Under the Authority of:


.....
Tested by: Kerwinn Corpuz, Test Enginner


.....
Reviewed by: Alvin Ilarina, Lab Manager

Issue date: 3 November 2005

Equipment Details:

Manufacturer: LPN Wireless, Inc.



Registration No. 783147



Industry Canada
Industrie Canada

Registration No. 4842



Lab Code: KR0032



RTA No. D23/16V



Registration No. 2195

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Executive Summary

The purpose of this test programme was to demonstrate compliance of the LPN Wireless, Inc., SafeTLink Ethernet + FT1 against the current 47 CFR 90 Subpart Y. The SafeTLink Ethernet + FT1 demonstrated compliance with the 47 CFR 90 Subpart Y.

LPN Wireless, Inc. is the applicant and claimed manufacturer of this tested product. For the detailed description of this product, please refer to the SafeTLink Ethernet + FT1 User Manual.

The test has demonstrated that this unit complies with stipulated standards.



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1 Technical Details

| | |
|---------------------------------|--|
| Purpose | Compliance testing of SafeTLink Ethernet + FT1 with 47 CFR 90 Subpart Y |
| Applicant / Client | LPN Wireless, Inc. 1301 Rand Street, Suite C Petaluma, CA 94954 |
| Manufacturer | LPN Wireless, Inc. |
| Laboratory performing the tests | SIEMIC Labs 2206 Ringwood Avenue San Jose, CA 95131 |
| Test location(s) | SIEMIC Labs 2206 Ringwood Avenue San Jose, CA 95131 |
| Test report reference number | SL05091301-LPN-001 |
| Date EUT received | 25 October 2005 |
| Standard applied | 47 CFR 90 Subpart Y |
| Dates of test (from – to) | 25 October 2005 to 27 October 2005 |
| No of Units: | 1 |
| Equipment Category: | TNB |
| Trade/Product Name: | SafeTLink Ethernet + FT1 |
| Type/Model Name/No: | SafeTLink Ethernet + FT1 |
| Technical Variants: | none |
| FCC ID No. | RXV-STL-ETH |

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2 Tests Required

The product was tested in accordance with the following specifications.

The test results recorded in this Test Report are exclusively referred to the tested sample(s).

| Test Standard | Description | Pass / Fail |
|---------------------------|---|-------------|
| 47 CFR Part 90, Subpart Y | | |
| 2.1046; 90.1215(a) | Peak Output Power | Pass |
| 2.1046; 90.1215(a) | Peak Power Spectral Density | Pass |
| 2.1049; 90.210(m) | Occupied Bandwidth; Emissions Mask | Pass |
| 2.1051; 90.210(m) | Spurious Emissions at Antenna Terminals | Pass |
| 2.1053; 90.210(m) | Radiated Spurious Emissions | Pass |
| 2.1055(a)(1); 90.213 | Frequency Stability; Temperature Variations | Pass |
| 2.1055(d)(1); 90.213 | Frequency Stability; Voltage Variations | Pass |
| TIA/EIA-603-A-2001 | | |
| ANSI C63.4: 2003 | | |
| | | |
| | | |
| | | |
| | | |
| | | |

*Notes: Deviations to above standards are outlined in specific test sections if applicable.
Cable loss and external attenuation are compensated for in the measurement system when applicable.*



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3 Measurements, Examinations and Derived Results

3.1 General observations

| Equipment serial number(s) | | |
|----------------------------|--------------------------|----------------|
| Module: | Part number: | Serial number: |
| SafeTLink Ethernet + FT1 | SafeTLink Ethernet + FT1 | none |
| | | |

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3.2 Test Results

3.2.1 Peak Output Power

Requirement(s): 47 CFR §2.1046 and §90.1215(a)

Procedures: The peak output power was measured using a peak power meter with a sensor capable of measuring the entire bandwidth of the signal.. The average power measurements were taken using a power meter with a sensor capable of measuring the entire bandwidth of the signal. The measurements were made for the 1MHz, 2MHz, and 5MHz bandwidths at the center frequency of the channel.

Results:

| Frequency (MHz) | Channel Bandwidth (MHz) | Peak Power (dBm) | Peak Limit (dBm) | Average Power(dBm) |
|----------------------------|--|---------------------------------|-----------------------------|-------------------------------|
| 4942.5 | 5 | 23.3 | 27 | 18.3 |
| 4942.5 | 2 | 21.5 | 27 | 15.4 |
| 4942.5 | 1 | 19.5 | 20 | 13.3 |
| 4987.5 | 5 | 23.2 | 27 | 18.1 |
| 4987.5 | 2 | 21.3 | 27 | 15.1 |
| 4987.5 | 1 | 19.3 | 20 | 12.9 |
| | | | | |

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Date Tested: 25 October 2005

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3.2.2 Peak Power Spectral Density

Requirement(s): 47 CFR §2.1046 and §90.1215(a)

Procedures: The peak power spectral density measured at the antenna terminal using a spectrum analyzer. The measurements were made for the 1MHz, 2MHz, and 5MHz bandwidths at the center frequency of the channel.

Results:

| Plot # | Frequency (MHz) | Channel Bandwidth (MHz) | PPSD (dBm) | Limit (dBm) |
|--------|-----------------|-------------------------|------------|-------------|
| 1 | 4942.5 | 5 | 20.83 | 21 |
| 2 | 4942.5 | 2 | 20.33 | 21 |
| 3 | 4942.5 | 1 | 19.7 | 21 |
| 4 | 4987.5 | 5 | 20.83 | 21 |
| 5 | 4987.5 | 2 | 20.33 | 21 |
| 6 | 4987.5 | 1 | 19.7 | 21 |
| | | | | |

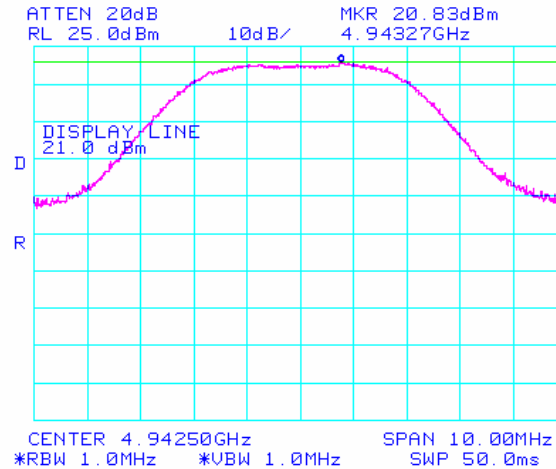


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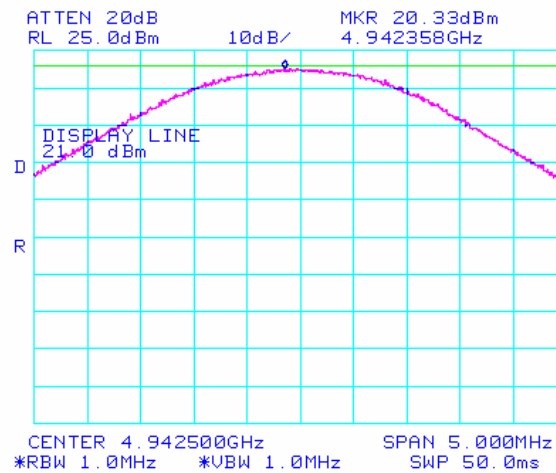
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Plot 1: Peak Power Spectral Density 4942.5MHz 5MHz Bandwidth



Plot 2: Peak Power Spectral Density 4942.5MHz 2MHz Bandwidth

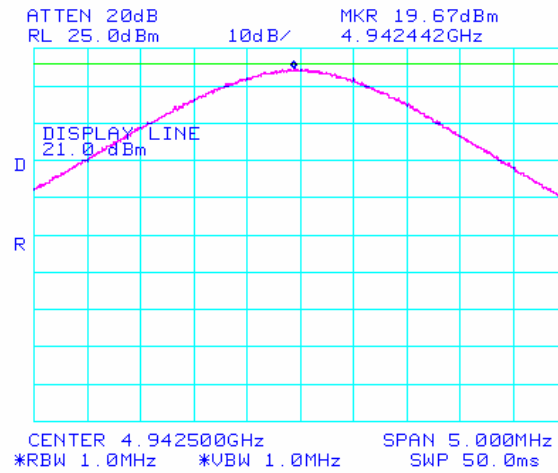


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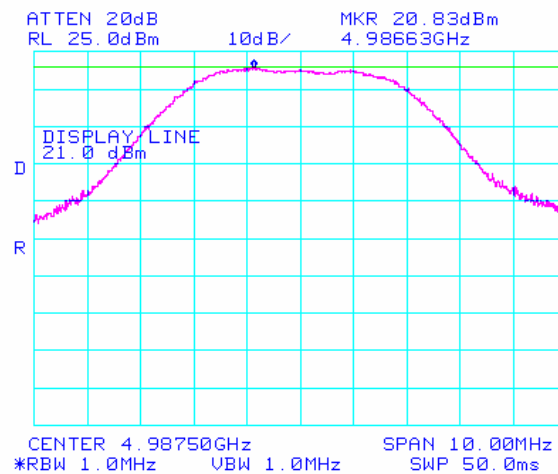
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Plot 3: Peak Power Spectral Density 4942.5MHz 1MHz Bandwidth



Plot 4: Peak Power Spectral Density 4987.5MHz 5MHz Bandwidth

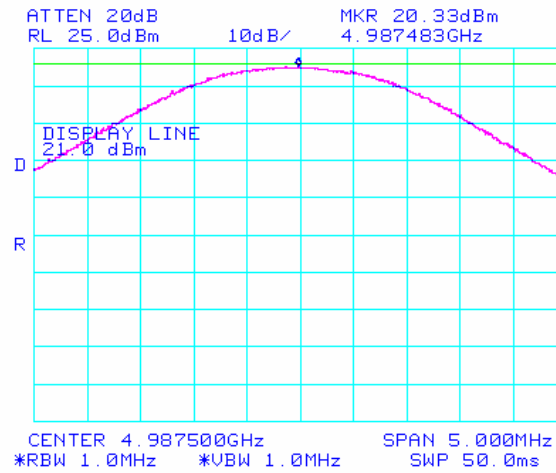


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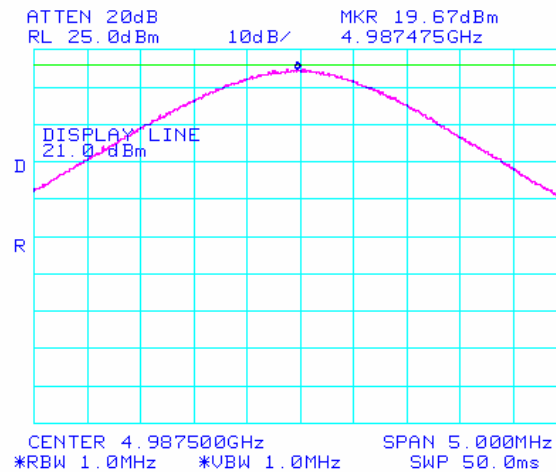
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Plot 5: Peak Power Spectral Density 4987.5MHz 2MHz Bandwidth



Plot 6: Peak Power Spectral Density 4987.5MHz 1MHz Bandwidth

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3.2.3 Occupied Bandwidth; Emission Mask

Requirement(s): 47 CFR §2.1049 and §90.210(m)

Procedures: The Emission Masks were measured at the antenna terminal using a spectrum analyzer. The measurements were made for the 1MHz, 2MHz, and 5MHz bandwidths at the center frequency of the channel.

Results:

| Plot # | Frequency (MHz) | Channel Bandwidth (MHz) | Pass/Fail |
|--------|-----------------|-------------------------|-----------|
| 7 | 4942.5 | 5 | Pass |
| 8 | 4942.5 | 2 | Pass |
| 9 | 4942.5 | 1 | Pass |
| 10 | 4987.5 | 5 | Pass |
| 11 | 4987.5 | 2 | Pass |
| 12 | 4987.5 | 1 | Pass |
| | | | |

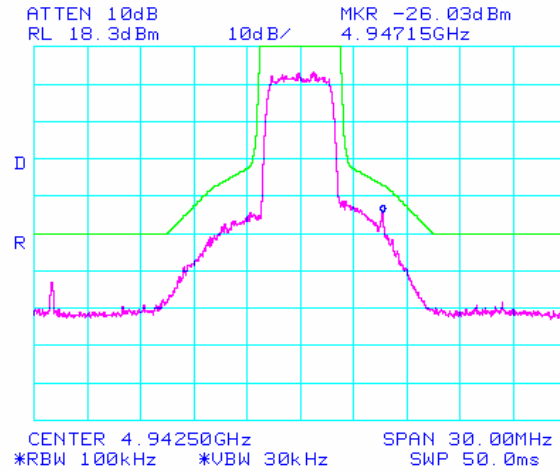


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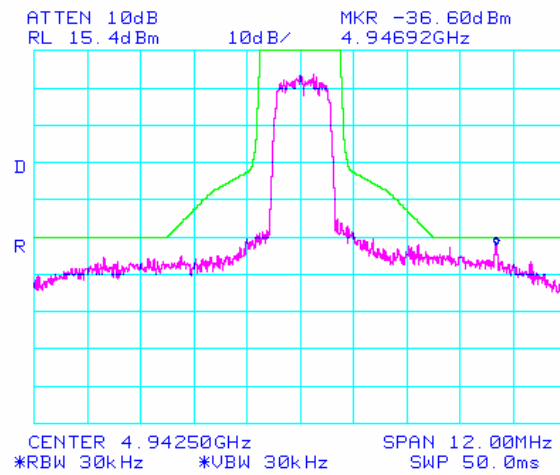
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Plot 7: Emission Mask M – 4942.5MHz 5MHz Bandwidth



Plot 8: Emission Mask M – 4942.5MHz 2MHz Bandwidth

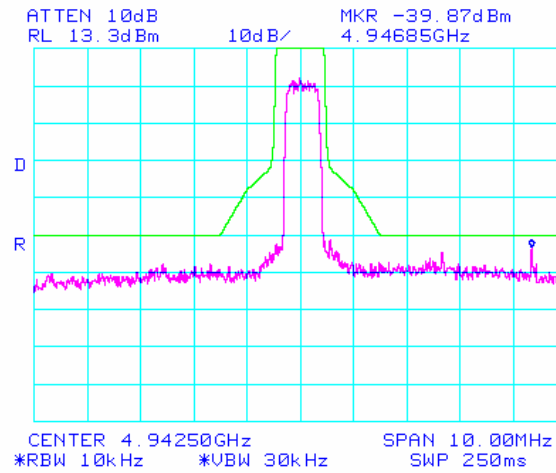


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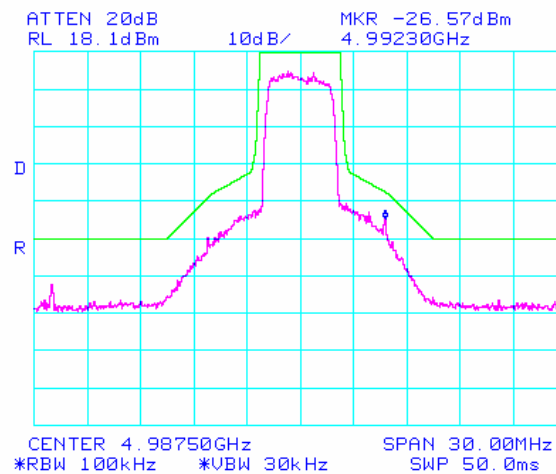
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Plot 9: Emission Mask M – 4942.5MHz 1MHz Bandwidth



Plot 10: Emission Mask M – 4987.5MHz 5MHz Bandwidth

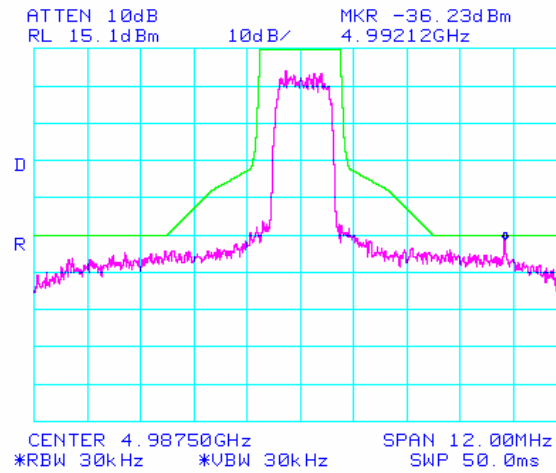


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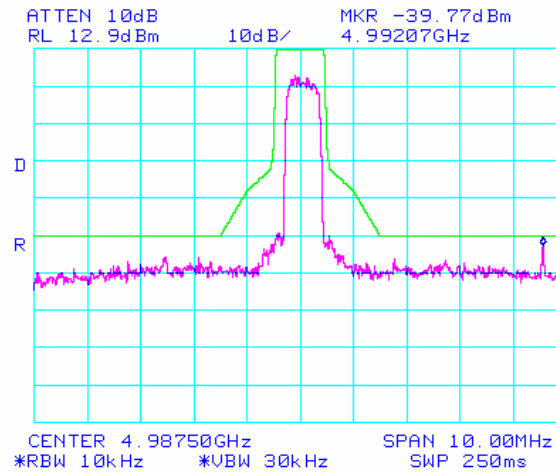
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Plot 11: Emission Mask M – 4987.5MHz 2MHz Bandwidth



Plot 12: Emission Mask M – 4987.5MHz 1MHz Bandwidth

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3.2.4 Spurious Emissions at Antenna Terminals

Requirement(s): 47 CFR §2.1051 and §90.210(m)

Procedures: The spurious emissions at the antenna terminal as measured at the antenna terminal using a spectrum analyzer. The measurements were made for the 1MHz, 2MHz, and 5MHz bandwidths at the center frequency of the channel.

The spurious limit was determined by:

Measured Average Output Power of EUT – 50 dBm/MHz

Results:

| Plots # | Frequency (MHz) | Channel Bandwidth (MHz) | Pass/Fail |
|----------|-----------------|-------------------------|-----------|
| 13 to 14 | 4942.5 | 5 | Pass* |
| 15 to 16 | 4942.5 | 2 | Pass* |
| 17 to 19 | 4942.5 | 1 | Pass* |
| 20 to 21 | 4987.5 | 5 | Pass* |
| 22 to 23 | 4987.5 | 2 | Pass* |
| 24 to 26 | 4987.5 | 1 | Pass* |
| | | | |

* Note: Emission above the limit is the fundamental.

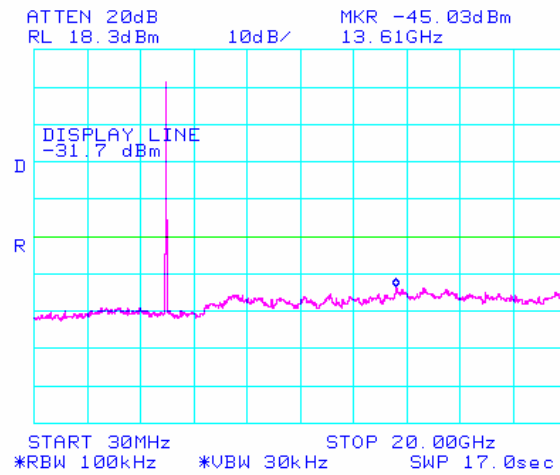


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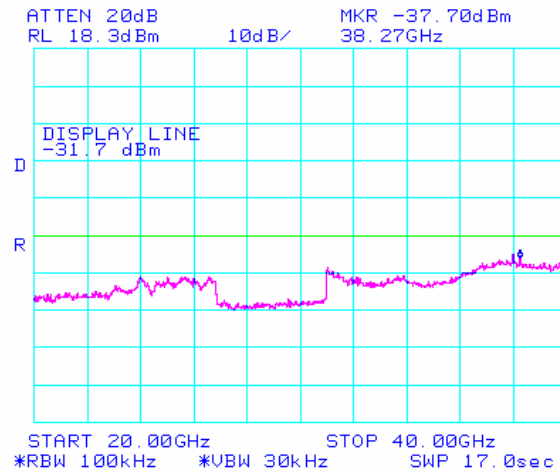
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Plot 13: Conducted Spurious Emissions – 4942.5MHz 5MHz Bandwidth



Plot 14: Conducted Spurious Emissions – 4942.5MHz 5MHz Bandwidth

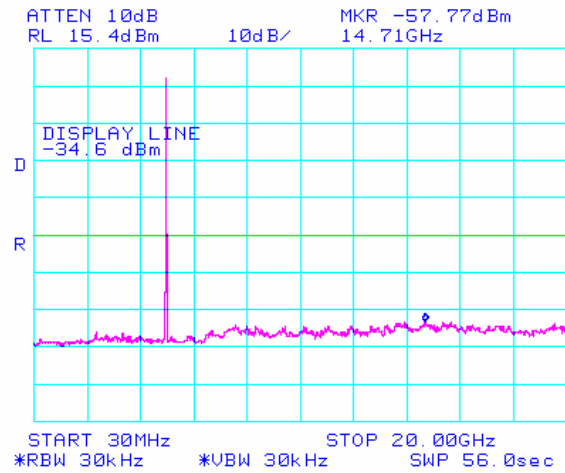


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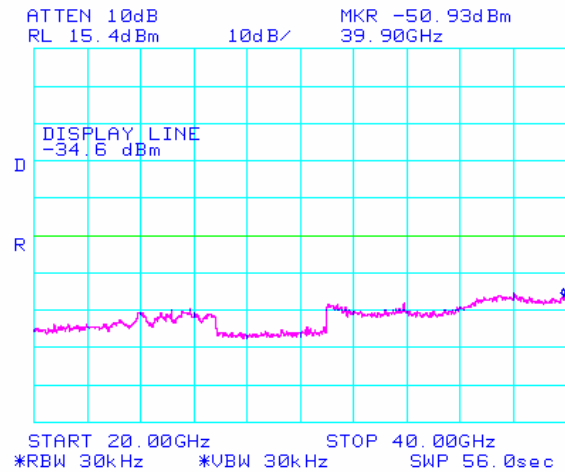
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Plot 15: Conducted Spurious Emissions – 4942.5MHz 2MHz Bandwidth



Plot 16: Conducted Spurious Emissions – 4942.5MHz 2MHz Bandwidth

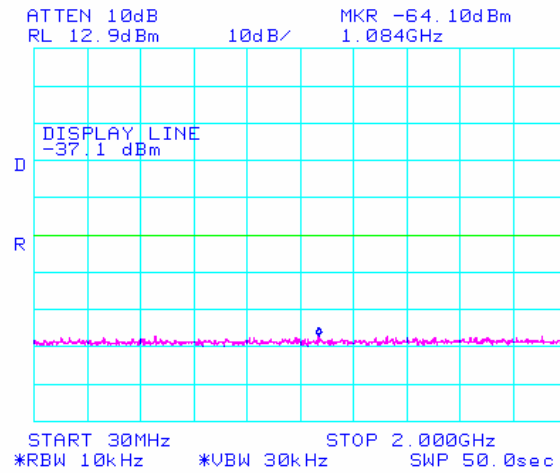


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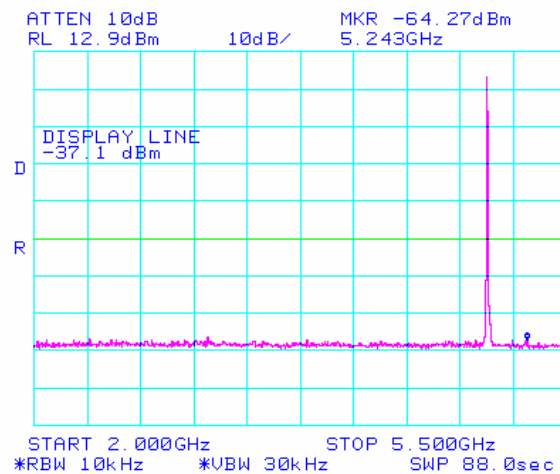
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Plot 17: Conducted Spurious Emissions – 4942.5MHz 1MHz Bandwidth



Plot 18: Conducted Spurious Emissions – 4942.5MHz 1MHz Bandwidth

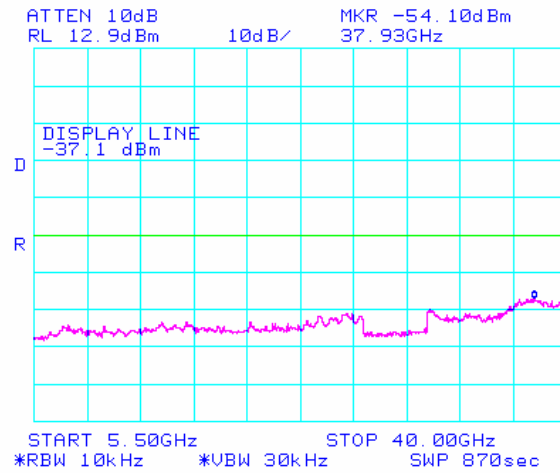


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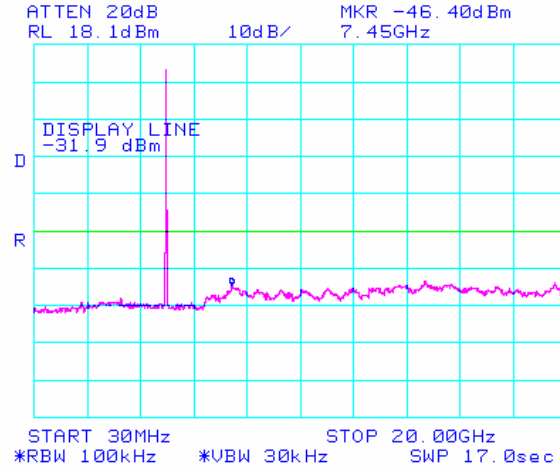
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Plot 19: Conducted Spurious Emissions – 4942.5MHz 1MHz Bandwidth



Plot 20: Conducted Spurious Emissions – 4987.5MHz 5MHz Bandwidth

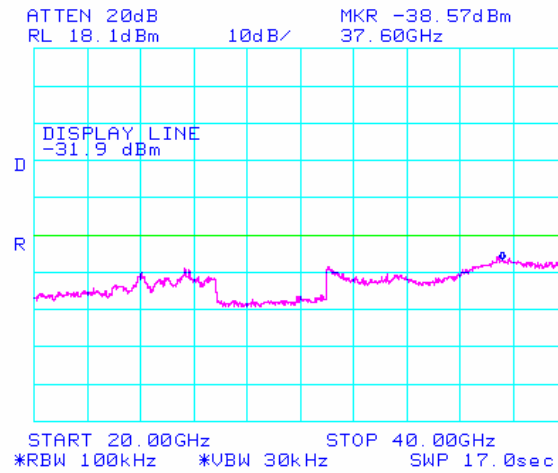


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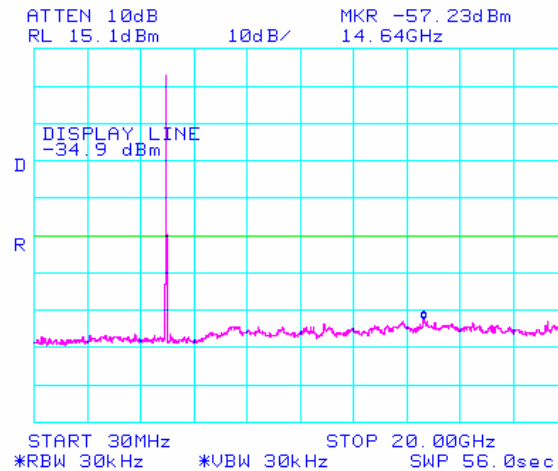
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Plot 21: Conducted Spurious Emissions – 4987.5MHz 5MHz Bandwidth



Plot 22: Conducted Spurious Emissions – 4987.5MHz 2MHz Bandwidth

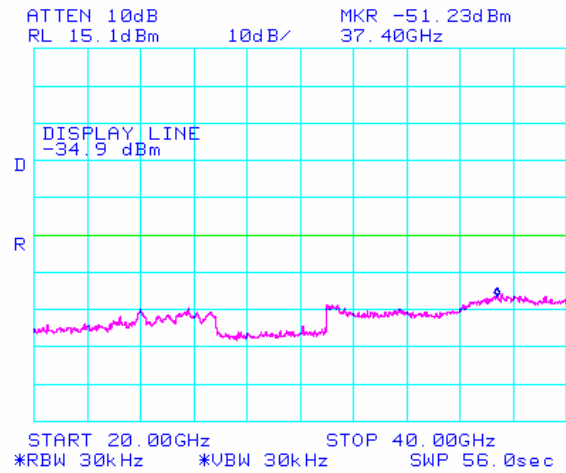


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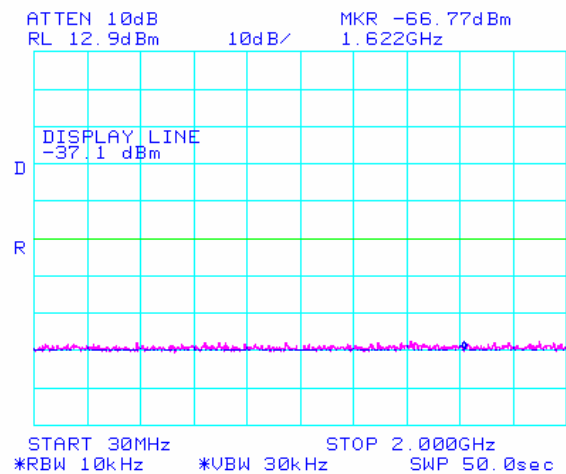
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Plot 23: Conducted Spurious Emissions – 4987.5MHz 2MHz Bandwidth



Plot 24: Conducted Spurious Emissions – 4987.5MHz 1MHz Bandwidth

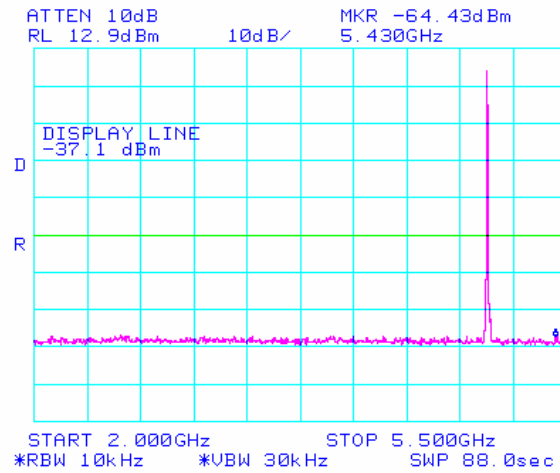


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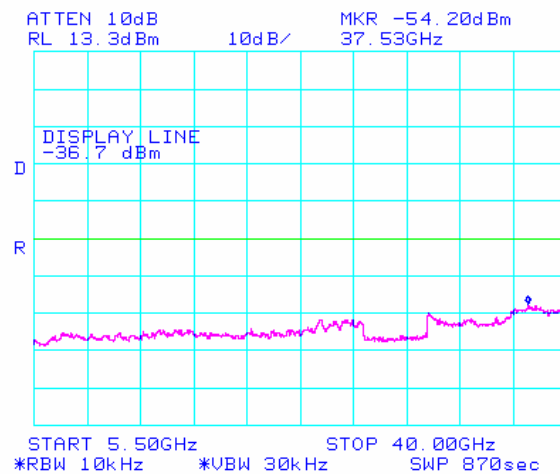
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Plot 25: Conducted Spurious Emissions – 4987.5MHz 1MHz Bandwidth



Plot 26: Conducted Spurious Emissions – 4987.5MHz 1MHz Bandwidth

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| Transmit at 4942.5 | | | | | | | | |
|--------------------|-----------|--------------|-------------|-------------|--------------|-------|-------|--------|
| EBW | Frequency | Polarization | Azimuth | Power Meter | Antenna Gain | EIRP | Limit | Margin |
| (MHz) | (MHz) | V/H | (degrees) | (dBm) | (dBi) | (dBm) | (dBm) | (dB) |
| 5 | 9885 | V/H | Noise Floor | | | | | |
| 5 | 14827.5 | V/H | Noise Floor | | | | | |
| 5 | 24712.5 | V/H | Noise Floor | | | | | |
| 2 | 9885 | V/H | Noise Floor | | | | | |
| 2 | 14827.5 | V/H | Noise Floor | | | | | |
| 2 | 24712.5 | V/H | Noise Floor | | | | | |
| 1 | 9885 | V/H | Noise Floor | | | | | |
| 1 | 14827.5 | V/H | Noise Floor | | | | | |
| 1 | 24712.5 | V/H | Noise Floor | | | | | |

Notes:

NF = Noise Floor

EIRP = Power Meter reading + Antenna Gain

Margin = EIRP – Limit

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| Transmit at 4987.5 | | | | | | | | |
|---|-----------|--------------|-------------|-------------|--------------|-------|-------|--------|
| EBW | Frequency | Polarization | Azimuth | Power Meter | Antenna Gain | EIRP | Limit | Margin |
| (MHz) | (MHz) | V/H | (degrees) | (dBm) | (dBi) | (dBm) | (dBm) | (dB) |
| 5 | 9975 | V/H | Noise Floor | | | | | |
| 5 | 14962.5 | V/H | Noise Floor | | | | | |
| 5 | 19950 | V/H | Noise Floor | | | | | |
| 2 | 9975 | V/H | Noise Floor | | | | | |
| 2 | 14962.5 | V/H | Noise Floor | | | | | |
| 2 | 19950 | V/H | Noise Floor | | | | | |
| 1 | 9975 | V/H | Noise Floor | | | | | |
| 1 | 14962.5 | V/H | Noise Floor | | | | | |
| 1 | 19950 | V/H | Noise Floor | | | | | |
| Notes: | | | | | | | | |
| NF = Noise Floor | | | | | | | | |
| EIRP = Power Meter reading + Antenna Gain | | | | | | | | |
| Margin = EIRP – Limit | | | | | | | | |

Tested By: Alvin Ilarina

Date Tested: 26 October 2005

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3.2.6 Frequency Stability; Temperature Variations

Requirement(s): 47 CFR §2.1055(a)(1) and §90.213

Procedure: The frequency stability was measured at the antenna terminal using a spectrum analyzer. The measurements were made at the 5MHz bandwidths using the frequency counter function of the spectrum analyzer. The temperature was varied from -30°C to +50°C at 10°C increments with suitable time allowed for temperature stability between measurements.

Results:

| Temperature (°C) | Frequency (GHz) | ppm |
|------------------|-----------------|------|
| +50 | 4942.508108 | 0.29 |
| +40 | 4942.507601 | 0.18 |
| +30 | 4942.507145 | 0.09 |
| +20 | 4942.506667 | 0 |
| +10 | 4942.505192 | 0.30 |
| 0 | 4942.504185 | 0.5 |
| -10 | 4942.503577 | 0.62 |
| -20 | 4942.501248 | 1.09 |
| -30 | 4942.500035 | 1.34 |

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Date Tested: 27 October 2005

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3.2.7 Frequency Stability: Voltage Variations

Requirement(s): 47 CFR §2.1055(d)(1) and §90.213

Procedures: The frequency stability was measured at the antenna terminal using a spectrum analyzer. The measurements were made at the 5MHz bandwidth using the frequency counter function of the spectrum analyzer. The voltage was varied from +/- 15% of the nominal.

Results:

| Voltage (VDC) | Frequency (GHz) | ppm |
|---------------|-----------------|-------|
| 55.2 | 4942.506667 | 0 |
| 48 | 4942.506667 | 0 |
| 40.8 | 4942.506679 | 0.002 |

Tested By: Kerwinn Corpuz

Date Tested: 27 October 2005



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4.1 TEST INSTRUMENTATION

[illegible]

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To: 47 CFR 90 Subpart Y

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APPENDIX A: EUT TEST CONDITIONS

The following is the description of supporting equipment and details of cables used with the EUT.

| Equipment Description (Including Brand Name) | Cable Description |
|---|------------------------------|
| PC Laptop | 1. Power cord 2. Ethernet |

| | |
|-----------------|---------------------------|
| EUT Description | : SafeTLink Ethernet + F1 |
| Model No | : SafeTLink Ethernet + F1 |
| Serial No | : none |

The following is the description of how the EUT is exercised during testing.

| Test | Description Of Operation |
|------|--|
| | The EUT was controlled and monitored via Ethernet by a PC running a radio test program. The data rate was set at maximum at each bandwidth to simulate worse case conditions during the equipment operation. |



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APPENDIX B: External Photos

See Attachment



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APPENDIX C: CIRCUIT/BLOCK DIAGRAMS

See Attachment



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APPENDIX D: Internal Photos

See Attachment



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APPENDIX F: PRODUCT DESCRIPTION

Detail description of this product is shown in the User's Guide.



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APPENDIX H: FCC LABEL LOCATION

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APPENDIX I: USER MANUAL

See Attachment