



TIME WARNER
CABLE

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September 30, 2003

VIA CERTIFIED MAIL/
RETURN RECEIPT REQUESTED

62-V-1637

Acting Secretary Jaclyn Brilling
N.Y.S. Department of Public Service
Three Empire State Plaza - 19th Floor
Albany, New York 12223

Dear Ms. Jaclyn:

Enclosed are an original and four (4) copies of the Town of Cape Vincent (Jefferson County) franchise application, which is served by the Time Warner Cable Syracuse Division.

If you have any questions, please do not hesitate to contact me at (315) 634-6107.

Sincerely,

Richard T. Strong
Manager of Government Affairs
enclosures

cc: Henry Pearl, Vice President/General Manager Manager-Time Warner Cable Syracuse

**CABLE TELEVISION
FRANCHISE RENEWAL AGREEMENT**

TOWN OF CAPE VINCENT

THIS AGREEMENT, executed in triplicate this 8th day of May, 2003, by and between the TOWN OF Cape Vincent, (hereinafter referred to as the Municipality) by the Supervisor acting in accordance with the authority of the duly empowered local governing body, (hereinafter referred to as the Board) and TIME WARNER ENTERTAINMENT-ADVANCE/NEWHOUSE PARTNERSHIP, a New York General Partnership, organized and existing under the laws of the State of New York, the local place of business of which is located at 6005 Fair Lakes Road, P.O. Box 4733, East Syracuse, NY 13221, hereinafter referred to as "Time Warner Cable."

WITNESSETH

WHEREAS, Pursuant to the Town Law the Board has the exclusive power on behalf of the Municipality to grant franchises providing for or involving the use of the Streets (as defined in Section 1 hereof) and to give the consent of the Municipality to any franchisee for or relating to the occupation of the Streets; and

WHEREAS, Pursuant to the Communications Act of 1934, as amended, (the "Communications Act") the Board has the authority to grant cable television franchises and renewals thereof on behalf of the Municipality and whereas the Board and Time Warner Cable pursuant to said Federal Law and pursuant to applicable State laws and the regulations promulgated thereunder, have complied with the franchise procedures required of Municipalities and cable operators in the grant of cable television franchises or their renewal; and

WHEREAS, The Municipality has conducted negotiations with Time Warner Cable and has conducted one or more public hearings on Time Warner Cable's franchise renewal proposal affording all interested parties due process including notice and the opportunity to be heard; said deliberations included consideration and approval of Time Warner Cable's technical ability, financial condition and character; said public hearing also included consideration and approval of Time Warner Cable's plans for constructing and operating the cable television system; and

WHEREAS, Following such public hearings and such further opportunity for review, negotiations and other actions as the Board deemed necessary and that is required by law, the Board decided to renew Time Warner Cable's franchise as provided hereinafter; and

WHEREAS, The Board, in granting this franchise renewal, embodied in the agreement the results of its review and any negotiations with Time Warner Cable and has determined that said franchise agreement and Time Warner Cable respectively, fulfills and will fulfill the needs of the Municipality with respect to cable television service and complies with the standards and requirements of the New

York State Public Service Commission ("NYSPSC");

NOW, THEREFORE, In consideration of the foregoing clauses, which clauses are hereby made a part of this franchise agreement, and the mutual covenants and agreements herein contained, the parties hereby covenant and agree:

SECTION 1 - DEFINED TERMS

Unless the context clearly indicates that a different meaning is intended:

- (a) "Basic Service" means any service tier which includes the retransmission of local broadcast signals.
- (b) "Board" means the Board of Trustees of the Municipality.
- (c) "Cable Television Service" means
 - (1) The one way transmission to Subscribers of Video Programming, or other programming service, and
 - (2) Subscriber interaction, if any, which is required for the selection or use of such Video Programming, or other programming service.
- (d) "Cable Television System" means a facility, consisting of a set of closed transmission paths, including (without limitation) fiber optic wires or lines, and associated signal generation, reception and control equipment that provides Cable Television Service to multiple subscribers within a community.
- (e) "Time Warner Cable" means Time Warner Cable Entertainment-Advance/Newhouse Partnership.
- (f) "Effective Date" of this agreement shall be that date subsequent to confirmation of the Franchise, by the New York State Public Service Commission ("NYSPSC") agreed to by the parties, which date is (calendar date).
- (g) "Franchise" means the grant or authority given hereunder to Time Warner Cable to construct and operate a Cable Television System in the Municipality in accordance with the terms hereof.
- (h) "FCC" means the Federal Communications Commission, its designees and any successor thereto.
- (i) "Gross Revenues" means all revenues net of franchise fees actually received by and paid to Time Warner Cable by subscribers residing within the Municipality for Cable Television Service purchased by subscribers on a regular, recurring monthly basis.
- (j) "May" is permissive.

- (k) "Municipality" means the Town of Cape Vincent. Wherever the context shall permit, Board, Council and Municipality shall be used interchangeably and shall have the same meaning under this Franchise.
- (l) "NYSPSC" means New York State Public Service Commission.
- (m) "Person" means an individual, partnership, association, corporation, joint stock company trust, corporation, or organization of any kind.
- (n) "Service Tier" means a category of Cable Television Service provided by Time Warner Cable over the Cable Television System for which a separate rate is charged for such category by Time Warner Cable.
- (o) "Shall" or "will" are mandatory.
- (p) "Streets" means the surface of, as well as the space above and below, any and all streets, avenues, highways, boulevards, concourses, driveways, bridges, tunnels, parks, parkways, waterways, docks and public grounds and waters within or belonging to the Municipality.
- (q) "Subscriber" means any person lawfully receiving any Cable Television Service in the Municipality provided over the Cable Television System.
- (r) "Video Programming" means any and all programming services provided by, or generally considered comparable to programming provided by a television broadcast station.

SECTION 2 - CONSENT TO FRANCHISE AND CONDITION PRECEDENT

- (a) The Municipality hereby grants to Time Warner Cable the non-exclusive right to construct, erect, operate and maintain a Cable Television System and to provide Cable Television Service within the Municipality as it now exists and may hereafter be changed, and in so doing to use the Streets of the Municipality by erecting, installing, constructing, repairing, replacing, reconstructing, maintaining and retaining in, on, over, under, upon and across any and all said Streets such facilities (e.g., poles, wires, cables, conductors, ducts, conduits, vaults, pedestals, manholes, amplifiers, appliances, attachments and other property) as is deemed necessary or useful by Time Warner Cable, for the operation of its cable system. Additionally, the Municipality, insofar as it may have the authority to so grant, hereby authorizes Time Warner Cable to use any and all easements dedicated to compatible uses, such as electric, gas, telephone or other utility transmissions, for the purposes of erecting, installing, constructing, repairing, replacing, reconstructing, maintaining and retaining in, on, over, under, upon and across such easements such facilities of the Cable Television System as is deemed necessary or useful by Time Warner Cable, for the operation of its cable system. Upon request by Time Warner Cable and at Time Warner Cable's sole expense, the Municipality hereby agrees to assist Time Warner Cable in gaining access to and using such easements.

- (b) Nothing in this Franchise shall limit the right of Time Warner Cable to transmit any kind of signal, frequency, or provide any type of service now in existence or which may come into existence and which is capable of being lawfully transmitted and distributed by those facilities owned and operated by Time Warner Cable. The provision by Time Warner Cable of any service other than cable service shall be subject to all applicable laws and regulations and to any right the Municipality may have to require fair and reasonable compensation for Time Warner Cable's use of the rights-of-way to provide such service, provided that such requirement is non-discriminatory and competitively neutral.
- (c) Without waiver or restriction of the rights available to the parties hereto under applicable law, this Franchise and the attachments hereto constitute the entire agreement between the parties and supersede any and all prior cable television agreements and other agreements or instruments by or between the parties hereto or their predecessors in interest as well as all rights, obligations and liabilities arising thereunder concerning or in any way relating to Cable Television Service.
- (d) In the event the Municipality grants to any other Person (being referred to as "Grantee" in the below quoted paragraph) a franchise, consent or other right to occupy or use the Streets, or any part thereof, for the construction, operation or maintenance of all or part of a cable television system or any similar system or technology, the Municipality shall insert the following language into any such franchise, consent or other document and/or promptly pass a resolution, conditioning the use of the Streets or any part thereof by any such Person, as follows:

"Grantee agrees that it will not move, damage, penetrate, replace or interrupt any portion of the Cable Television System of Time Warner Cable without the prior written consent of Time Warner Cable. Grantee shall indemnify Time Warner Cable against any damages or expenses incurred by Time Warner Cable as a result of any removal, damage, penetration, replacement or interruption of the services of Time Warner Cable caused by the Grantee." As used immediately above in the above quoted paragraph, the term "Time Warner Cable" shall mean Time Warner Cable Entertainment-Advance/Newhouse Partnership, as defined in this Franchise, and its successors, assigns and transferees.

- (e) This Franchise is non-exclusive. Any grant of a subsequent franchise shall be on terms and conditions which are not more favorable or less burdensome than those imposed on Franchisee hereunder.

As used in this Section, the phrase, "occupancy or use of Streets," or any similar phrase, shall not be limited to the physical occupancy or use thereof but shall include any use above or below the Streets by any technology including but not limited to infrared transmissions.

SECTION 3 - APPROVAL OF COMPANY BY MUNICIPALITY

- (a) This Franchise is subject to and complies with all applicable Federal and State laws and regulations, including, without limitation, the rules of the NYSPSC concerning franchise standards. The Municipality hereby acknowledges and agrees that this Franchise has been entered into by it in accordance with and pursuant to the Communications Act of 1934, as amended, 47 U.S.C. Sec. 521 et seq. (hereinafter referred to as the "Communications Act"). The Municipality hereby represents and warrants that this Franchise has been duly entered into in accordance with all applicable local laws. The Municipality hereby acknowledges that it, by duly authorized members thereof, has met with Time Warner Cable for the purposes of evaluating Time Warner Cable and negotiating and consummating this Franchise.
- (b) In a full and public proceeding, affording due process, the Municipality has considered and approved Time Warner Cable's technical ability and character and has considered and found adequate Time Warner Cable's plans for constructing and operating the cable system.

SECTION 4 - FRANCHISE TERM

The term of this Franchise shall be ten (10) years, commencing on the later of the 8th of May, 2003 or on the date the NYSPSC approves said franchise agreement and terminating on the 8th of May, 2013.

SECTION 5 - ASSIGNMENT OR TRANSFER OF FRANCHISE

- (a) Time Warner Cable shall not transfer this Franchise to any person, firm, company, corporation or any other entity without the prior written consent of the Municipality, which consent shall not be unreasonably withheld or denied.
- (b) In the event that the Municipality refuses to grant such consent, it shall set forth specific reasons for its decision in writing by municipal resolution.
- (c) Notwithstanding the above, this Section 5 shall not be applicable and no prior approval shall be required if Time Warner Cable shall transfer this Franchise to any of its principal partners, to any parent, subsidiary or affiliate of any of the principal partners of Time Warner Cable, or to any other firms or entities controlling, controlled, by or under the same common control as Time Warner Cable.

SECTION 6 - REVOCATION

- (a) The Municipality may revoke this Franchise and all rights afforded Time Warner Cable hereunder in any of the following events or for any of the following reasons:
 - (i) Time Warner Cable fails after sixty (60) days written notice from the Municipality to substantially comply or to take reasonable steps to comply with a material provision of this

Franchise. Notwithstanding the above, should Time Warner Cable comply or take said reasonable steps to comply within said sixty days notice, the Municipality's right to revoke this Franchise shall immediately be extinguished; or

(ii) Time Warner Cable is adjudged a bankrupt; or

(iii) Time Warner Cable knowingly and willfully attempts or does practice a material fraud or deceit in its securing of this Franchise.

- (b) Notwithstanding the above, no revocation shall be effective unless and until the Municipality shall have adopted an ordinance setting forth the cause and reason for the revocation and the effective date thereof, which ordinance shall not be adopted until the expiration of one hundred twenty (120) days from the date of delivery of written notice to Time Warner Cable specifying the reasons for revocation and an opportunity for Time Warner Cable to be fully and fairly heard on the proposed adoption of such proposed ordinance. If the revocation as proposed therein depends on a finding of fact, such finding of fact shall be made by the Municipality only after an administrative hearing providing Time Warner Cable with a full and fair opportunity to be heard, including, without limitation, the right to introduce evidence, the right to the production of evidence and the right to question witnesses. A transcript shall be made of such hearing. Time Warner Cable shall have the right to appeal any such administrative decision to a state or federal district court as Time Warner Cable may choose and the revocation shall not become effective until any such appeal has become final or the time for taking such appeal shall have expired.

SECTION 7 - INDEMNIFICATION & INSURANCE

- (a) Time Warner Cable shall indemnify and hold harmless the Municipality from all liability, damage and reasonable cost or expense arising from claims of injury to persons or damage to property occasioned by reason of any conduct of Time Warner Cable its employees or agents undertaken pursuant to this Franchise. The Municipality shall promptly notify Time Warner Cable of any claim for which it seeks indemnification; afford Time Warner Cable the opportunity to fully control the defense of such claim and any compromise, settlement, resolution or other disposition of such claim, including by making available to Time Warner Cable all relevant information under its control.
- (b) Time Warner Cable shall as of the Effective Date of this Franchise obtain liability insurance in the minimum amount set forth within and shall furnish to the Municipality evidence of such liability insurance policy or policies, in the form of a certificate of insurance naming the Municipality as an additional named insured, which policy or policies or replacements thereof shall remain in effect throughout the term of this Franchise; said policy and replacements shall be in the combined amount of Two Million Dollars (\$2,000,000.00) for bodily injury and property damage issued by a company authorized to do business in New York State. In addition, Time Warner Cable shall carry Worker's Compensation insurance for its employees in such amounts as is required by the laws of the State of New York. The insurance coverage herein referred to above may be included in one or more policies covering other risks of Time Warner

Cable or any of its affiliates, subsidiaries or assigns.

SECTION 8 - USE OF EXISTING POLES AND LOCATION OF UNDERGROUND FACILITIES

- (a) Time Warner Cable hereby agrees that when and wherever it deems it economical and reasonably feasible, it shall enter into agreements with telephone or electric or other utilities (collectively "utilities") for the use of said utilities' poles or conduit space whereby said utilities shall provide use of and access to said poles or conduit space by Time Warner Cable for Time Warner Cable's lines and other equipment. Notwithstanding the above, where necessary to service Subscribers and where attachment to the pole(s) or conduit space of utilities is not economically reasonable or otherwise feasible, Time Warner Cable may erect or authorize or permit others to erect any poles or conduit space or any other facilities within the Streets of the Municipality pursuant to the issuance by the Municipality of any necessary authorizations which shall not be unreasonably withheld or delayed.
- (b) Subject to the provisions of sub-paragraph (c) below, in such areas of the Municipality where it or any sub-division thereof shall hereafter duly require that all utility lines be installed underground, Time Warner Cable shall install its lines underground in accordance with such requirement.
- (c) Notwithstanding the foregoing, if Time Warner Cable shall in any instance be unable to install or locate its wires underground, then the Municipality, on being apprised of the facts thereof, shall permit such wires to be installed above the ground even though other facilities in the area may be placed, or required to be placed, underground. However, any such permission shall be on such conditions as the Municipality may reasonably require.

SECTION 9 - RELOCATION OF PROPERTY

- (a) Whenever the Municipality shall require the relocation or reinstallation of any property of Time Warner Cable in or on any of the Streets of the Municipality as a result of the relocation or other improvements by the Municipality of any such Streets, it shall be the obligation of Time Warner Cable on written notice of such requirement to remove and relocate or reinstall such property as may be reasonably necessary to meet the requirements of the Municipality. In the event any other person, including a public utility, is compensated for similar relocation or reinstallation then in such case Time Warner Cable shall be similarly compensated.
- (b) Time Warner Cable shall, on request of a person holding a building or moving permit issued by the Municipality, temporarily raise or lower its wires or other property or relocate the same temporarily so as to permit the moving or erection of buildings. The expenses of any such temporary removal, raising or lowering of wires or other property shall be paid in advance to Time Warner Cable by the person requesting the same. Time Warner Cable shall be given in such cases not less than five (5) working days prior written notice in order to arrange for the changes required.

SECTION 10 - USE & INSTALLATION

- (a) Time Warner Cable or any person authorized by Time Warner Cable to erect, construct or maintain any of the property of Time Warner Cable used in the transmission or reception of Cable Television Service shall at all times employ due care under the facts and circumstances and shall maintain and install said property of Time Warner Cable in accordance with commonly accepted methods and principles in the cable television industry so as to prevent failures and accidents likely to cause damage or injury to members of the public. All Cable Television System equipment shall conform to those standards of the National Electrical Code and the National Board of Fire Underwriters which exist at the time said equipment is installed and replaced.
- (b) Time Warner Cable agrees to install all Cable Television System equipment in a manner to reasonably minimize interference to be expected with the usual use of the Streets and in no event shall any such Cable Television System equipment be located so as to substantially and regularly interfere with the usual public travel on any Street of the Municipality. Time Warner Cable shall construct and maintain its cable system using materials of good and durable quality and shall perform all work involved in the construction, installation, maintenance and repair of the cable system in a safe, thorough and reliable manner. Time Warner Cable shall promptly repair or replace any municipal property damaged or destroyed by Time Warner Cable so as to restore it to serviceable condition.
- (c) Whenever Time Warner Cable or any person on its behalf shall cause any injury or damage to public property or Street, by or because of the installation, maintenance or operation of the Cable Television System equipment, such injury or damage shall be remedied as soon as reasonably possible after the earlier of notice to Time Warner Cable from the Municipality or after Time Warner Cable becomes aware of the same, in such fashion so as to restore the property or Street to serviceable condition. Time Warner Cable is hereby granted the authority to trim trees upon and overhanging the Streets of, and abutting private property, (i.e., in the public way) in the Municipality to the extent it reasonably deems necessary so as to prevent the branches or growths from coming in contact with the wires, cable and other equipment of Franchisee's Cable Television System.

SECTION 11 - CONTINUOUS SERVICE

Time Warner Cable shall continue to provide cable service to all subscribers who meet their obligations to Time Warner Cable with respect to such service. Time Warner Cable shall not, without the written consent of the Municipality abandon its cable television system or any portion thereof in such a way as would limit its ability to continue to provide cable service to all subscribers without the written consent of the Municipality.

SECTION 12 - FRANCHISE AREA AND LINE EXTENSION

Time Warner Cable shall comply with the requirements for construction of cable television plant and provision of cable television services as set forth in Section 595.5 of the Rules of the NYSPSC.

SECTION 13 - OPERATION AND MAINTENANCE

- (a) Time Warner Cable shall contract and maintain its cable system using materials of good and durable quality and shall perform all work involved in the construction, installation, maintenance and repair of the cable system in a safe, thorough and reliable manner.
- (b) Time Warner Cable shall maintain and operate its cable television system at all times in compliance with the duly promulgated and lawful provisions of Section 596 of the Rules and Regulations of the NYSPSC and the technical requirements set forth by the FCC. Time Warner Cable shall maintain staffing levels and support equipment to assure that telephone inquiries are handled promptly in order to minimize busy signals and hold time. Time Warner Cable shall have, at all times, a person on call able to perform minor repairs or corrections to malfunctioning equipment of the cable system. Time Warner Cable shall respond to individual requests for repair service no later than the next business day. System outages, and problems associated with channel scrambling and switching equipment, shall be acted upon promptly after notification. Time Warner Cable shall maintain a means to receive repair service requests and notice of system outages at times when its business office is closed. The Municipality shall have the right and authority to request an inspection or test performed, all at the Municipality's expense. Time Warner Cable shall fully cooperate in the performance of such testing.
- (c) Throughout the term of this Franchise, Franchisee's Cable Television System shall have a minimum channel capacity of 750 MHz.

SECTION 14 - RATES

Time Warner Cable shall not illegally discriminate against individuals in the establishment and application of rates and charges for Video Programming or other communication services available to generally all subscribers.

SECTION 15 - SERVICE TO PUBLIC FACILITIES, ACCOUNTABILITY PROVISIONS AND INSPECTION OF RECORDS

- (a) At the request of the Municipality, Time Warner Cable shall provide and maintain a single service outlet and basic service to any state certified school, police station, firehouse and municipally owned building which is occupied for governmental purposes, provided the connection point is no further than two hundred feet (200') from the closest feeder line of the Cable Television System. All such connections shall be above ground. The Municipality shall not extend such service to additional outlets, without the express written consent of Time Warner Cable.
- (b) Municipality, upon reasonable notice and during normal business hours, shall have the right to inspect all books, records, maps, plans, financial statements and other like materials of Time Warner Cable which are pertinent to Time Warner Cable's compliance with the terms and conditions of this Franchise.

- (c) Municipality and Time Warner Cable agree that Time Warner Cable's obligations hereunder are subject to any applicable law, including laws regarding the privacy of information regarding subscribers.
- (d) Municipality will maintain the confidentiality of any information obtained pursuant to this provision to the extent permitted by law, provided Time Warner Cable has advised Municipality of the confidential nature of the information. In the event that the Municipality receives request for the disclosure of such information with which it, in good faith, believes it must under law comply, then the Municipality will give Time Warner Cable notice of such request as soon as possible prior to disclosure in order to allow Time Warner Cable to take such steps as it may deem appropriate to seek judicial or other remedies to protect the confidentiality of such information.

SECTION 16 - PUBLIC, EDUCATIONAL AND GOVERNMENTAL ACCESS CHANNELS

Time Warner Cable shall comply with the standards for public, educational and governmental (PEG) access channels as set forth in Section 595.4 of the Rules of the NYSPSC.

SECTION 17 - ADDITIONAL SUBSCRIBER SERVICES

- (a) Payment for equipment provided by Time Warner Cable to subscribers and the installation, repairs, and removal thereof shall be paid in accordance with Time Warner Cable's standard and customary practices and applicable rules and regulations of the FCC.
- (b) Notice of Time Warner Cable's procedures for reporting and resolving billing disputes and Time Warner Cable's policy and the subscribers rights in regard to "personally identifiable information," as that term is defined in Section 631 of the Communications Act, will be given to each subscriber at the time of such person's initial subscription to the Cable Television System services and thereafter to all subscribers as required by Federal or State law.
- (c) Time Warner Cable shall offer to, and shall notify in writing, the subscribers of the availability of locking program control devices which enable the subscriber to limit reception of obscene or indecent programming in the subscriber's residence.
- (d) In accordance with the applicable requirements of Federal and State laws, Time Warner Cable shall provide written notice of any increases in rates or charges for any Cable Television Service.
- (e) The Administrator, as the case may be, for the Municipality for this Franchise shall be Supervisor or Mayor of the Municipality. The Administrator is responsible for the continuing administration of the Franchise on behalf of the Municipality. All correspondence and communications between Time Warner Cable and the Municipality pursuant to this Franchise shall be addressed by Time Warner Cable to the Administrator.

- (f) It is agreed that all Cable Television Service offered to any subscribers under this Franchise shall be conditioned upon Time Warner Cable having legal access to any such subscriber's dwelling units or other units wherein such service is provided.
- (g) Time Warner Cable shall comply with the Customer Service Consumer Protection Standards set forth in Sections 590 and 596 of the Rules and Regulations of the NYSPSC.
- (h) At least once each year, Time Warner Cable shall provide notice to each subscriber of its procedures for reporting and resolving subscriber complaints.

SECTION 18 - FRANCHISE FEES

- (a) Time Warner Cable shall pay the Municipality an amount equal to 3 % of Time Warner Cable's Gross Revenues received by Time Warner Cable directly from subscribers for cable services purchased by subscribers on a regular, recurring monthly basis.
- (b) There shall be applied as a credit against the Franchise Fee the aggregate of: (I) any taxes, fees or assessments of general applicability imposed on Time Warner Cable or any subscribers, or both, which are discriminatory against Time Warner Cable or any subscribers, (ii) any non-capital expenses incurred by Time Warner Cable in support of the PEG access requirements of this Franchise and (iii) any fees or assessments payable to the NYSPSC which when combined with all other fees and credits would exceed 5% of gross revenues. Time Warner Cable shall have the right to apply franchise fees paid as a credit against special franchise assessments pursuant to Section 626 of the New York State Real Property Tax Law.
- (c) Payment of the franchise fee shall be due annually within one hundred twenty (120) days of the end of the company's fiscal year. Time Warner Cable shall submit to the Municipality, along with the payment of said fees, a report showing reasonable detail the basis for the computation thereof.

SECTION 19 - SEVERABILITY, GOVERNING LAW, POLICE POWERS REQUESTS FOR AUTHORIZATION AND NON-DISCRIMINATION

- (a) Should any provision of this Franchise be held invalid by a court or regulatory agency of competent jurisdiction, the remaining provisions of this franchise shall remain in full force and effect.
- (b) To the extent not inconsistent with or contrary to applicable federal law, the terms of this Franchise shall be governed and construed in accordance with the laws of the State of New York. The parties hereby acknowledge and agree that any provisions of this Franchise or any existing or future State or local laws or rules that are inconsistent with or contrary to any applicable Federal law, including the Cable Act, as the same may be amended, are and shall be prohibited, preempted and/or superseded to the extent of any inconsistency or conflict with any applicable Federal laws.

- (c) In addition to the provisions contained in this Franchise and in existing applicable ordinances, the Municipality may adopt such additional regulations as it shall find necessary in the exercise of its police power, provided, however, that such regulations are reasonable and not materially in conflict with the privileges granted in this Franchise.
- (d) Time Warner Cable shall file requests for any necessary operating authorization with the NYSPSC and the FCC within sixty (60) days from the date the Franchise is awarded by the Municipality.
- (e) Time Warner Cable will not refuse to hire or employ, nor bar or discharge from employment, nor discriminate against any person in compensation or in terms, conditions or privileges of employment because of age, race, creed, color, national origin or sex.

SECTION 20 - NOTICE

All notices required herein shall be in writing and shall be deemed delivered when received by United States certified mail, return receipt requested, or on the date of delivery to addressee when sent by express mail, or overnight, or hand delivered to the parties and locations as specified below. Both Time Warner Cable and Municipality may change where notice is to be given by giving notice to the other.

When notices sent to
Time Warner Cable:

Time Warner Cable of Syracuse
Attention: General Manager
340 Eastern Blvd.
Watertown, New York 13601
Telephone: (315) 782-5287

or

Time Warner Cable
Attention: Division President
6005 Fair Lakes Road
East Syracuse, New York 13057
Telephone: (315) 634-6200
Facsimile: (315) 463-2088

When notices sent to
Municipality:

Town of Cape Vincent
Attention: Supervisor
P.O. Box 680
Cape Vincent, New York 13618

SECTION 21 - FORCE MAJEURE

In no event, and notwithstanding any contrary provision in this Franchise, shall this Franchise be subject to revocation or termination, or Time Warner Cable be subject to penalty or prejudice or in any way liable for non-compliance with or delay in the performance of any obligations hereunder, where its failure to cure or take reasonable steps to cure is due to reason of strike, Acts of God, acts of public enemies, order of any kind of a government of the United States of America or of the State or any of their departments, agencies, political subdivisions; riots, epidemics, landslides, lightning, earthquakes, fires, hurricanes, tornadoes, volcanic activity, storms, floods, washouts, droughts, civil disturbances, explosions, partial or entire failure of utilities or any other cause or event not reasonably within the control of Time Warner Cable. Time Warner Cable shall not be deemed to be in violation or default during the continuance of such inability and Time Warner Cable shall be excused from its obligations herein during the course of any such events or conditions and the time specified for performance of Time Warner Cable's obligations hereunder shall automatically extend for a period of time equal to the period of the existence of any such events or conditions and such reasonable thereafter as shall have been necessitated by any such events or conditions.

SECTION 22 - RIGHTS OF ENFORCEMENT

Nothing contained in this Franchise is intended to or shall confer any rights or remedies on any third parties to enforce the terms of this Franchise.

SECTION 23 - FURTHER ASSURANCES

The Municipality shall, without further consideration, execute and deliver such further instruments and documents and do such other acts and things as Time Warner Cable may reasonably request in order to effect and confirm this Franchise and the rights and obligations contemplated herein.

SECTION 24 - INTEGRATION

This Franchise supersedes all prior negotiations between the parties hereto and shall be binding upon and inure to the benefit of the parties hereto and each of their respective successors and permitted assigns. This Franchise may be amended (except as otherwise expressly provided for herein) only by agreement in writing signed by duly authorized persons on behalf of both parties. To the extent required by State law, amendments hereto shall be confirmed or approved by the NYSPSC.

This Franchise may be executed in one or more counterparts, all of which taken together shall be deemed one (1) original.

The headings of the various Sections of this Franchise are for convenience only, and shall not control or affect the meaning or construction of any of the provisions of the Franchise.

The rights and remedies of the parties pursuant to this Franchise are cumulative and shall be in addition to and not in derogation of any rights or remedies which the parties may have with respect to the subject matter of this Franchise.

SECTION 25 - NO JOINT VENTURE

Nothing herein shall be deemed to create a joint venture or any agency or employment relationship between the parties, and neither party is authorized to nor shall either party act toward any third parties or to the public in any manner which would indicate any such relationship with the other.

IN WITNESS WHEREOF, the parties hereto have executed this agreement this 8TH day of MAY, 2003.

**TIME WARNER ENTERTAINMENT-
ADVANCE/NEWHOUSE PARTNERSHIP**

**MUNICIPALITY:
TOWN OF CAPE VINCENT**

By: May L. Latta
Officer Name

By: Thomas K. Reichert
Name

Title: President

Title: SUPERVISOR

STATE OF NEW YORK
COUNTY OF JEFFERSON
CITY OF WATERTOWN

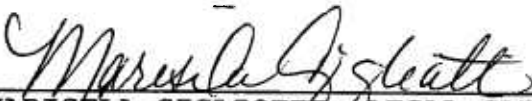
WATERTOWN DAILY TIMES

TIME WARNER CABLE
6005 FAIR LAKES RD
EAST SYRACUSE NY 13057-4250

REFERENCE: 17486
617937

LEGAL NOTICE PLEASE

Marisela Gigliotti, of the City of Watertown, Jefferson County, New York, being duly sworn, says that she is the Legal Clerk of the Johnson Newspaper Corp., a corporation duly organized and existing under the laws of the State of New York, and having its principal place of business in the City of Watertown, New York, and that said corporation is the publisher of the WATERTOWN DAILY TIMES, a Newspaper published in the City of Watertown, Jefferson County, and State of New York, and that a Notice, of which the annexed is a printed copy, has been published regularly in the said Newspaper.

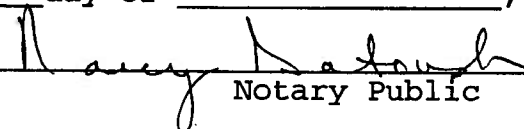

MARISELA GIGLIOTTI, LEGAL CLERK

PUBLISHED ON: 09/15 09/22

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FILED ON: 09/25/03

Sworn to before me this

26th day of September, 2003


Notary Public

NANCY DATOUSH
Notary Public in the State of New York
Qualified in Jefferson Co. No. 5006647
My Commission Expires Jan. 4, 2007

LEGAL NOTICE

PLEASE TAKE NOTICE THAT Time Warner Entertainment-Advance/News-whoise Partnership, a New York general partnership organized and existing under the laws of the State of New York d/b/a Time Warner Cable, has filed an application for renewal of its Certificate of Confirmation and Cable Television Franchise in the Town of Cape Vincent, Jefferson County, New York, with the New York State Public Service Commission. The application is available for public inspection at the offices of the New York State Public Service Commission and at the office of the Clerk of the Town of Cape Vincent, P.O. Box 680, Cape Vincent, New York 13618, during normal business hours. Any interested persons may file comments on the application with the New York State Public Service Commission, Three Empire State Plaza, Albany, New York 12223.
TIME WARNER CABLE
SYRACUSE DIVISION

State of New York } ss.:
County of Jefferson

Jeane R Snow of the
Village of Alexandria Bay, being duly sworn, says that (s)he
is President of the Thousand
Islands Printing Co., Inc., publishers of the "Thousand
Islands Sun", a weekly newspaper printed in the Village of
Alexandria Bay, Jefferson County, and State of New York,
and that the notice of which the annexed is a printed copy,
has been published regularly in said newspaper once a
week for at least one successive weeks commencing
the 23rd day of April,
20 03.

Jeane R Snow

Subscribed and sworn to before me this

30th day of April, 20 03

Helethea R. Roy
Notary Public

HELETHEA R. ROY Notary Public
Jefferson Co., State of New York
Comm. Expires Nov. 30, 2006
No. 01RO8688800

LEGAL NOTICE

PLEASE TAKE NOTICE
THAT the Town Board of the Town
of Cape Vincent, Jefferson County,
New York has scheduled a public
hearing for the 8th of May, 2003 at
8:00 p.m. at the Town Hall, Cape
Vincent, New York to consider
renewal of the cable television
franchise held by Time Warner
Entertainment - Advance/Newhouse
Partnership (hereinafter referred to
as "Time Warner Cable"). The
purpose of the hearing is to
consider a Franchise Renewal
Agreement which would renew
Time Warner Cable's cable
television franchise for an additional
ten (10) years commencing on the
8th of May, 2003 and bring the
franchise into conformity with
certain provisions of the Federal
Cable Communications Policy Act
of 1984, as amended.

The Agreement, if approved by
the Town Board, shall not take
effect without the prior approval of
the New York State Public Service
Commission. A copy of the
Franchise Renewal Agreement is
available for public inspection at
the Office of the Town Clerk during
normal business hours. Interested
persons may file comments or
objections with the New York State
Public Service Commission, Three
Empire State Plaza, Albany, New
York 12223.

TIME WARNER CABLE --
SYRACUSE DIVISION
4/23/1c

**STATE OF NEW YORK
TOWN OF CAPE VINCENT**

COUNTY OF JEFFERSON

In the Matter of the Renewal of the Cable Television Franchise Held by
**TIME WARNER ENTERTAINMENT-ADVANCED NEWHOUSE
PARTNERSHIP** in the Town of Cape Vincent, Jefferson County, NY

RESOLUTION
#8

An application has been duly made to the Town Board of the Town of Cape Vincent, Jefferson County, New York, by **TIME WARNER ENTERTAINMENT-ADVANCED/NEWHOUSE PARTNERSHIP**, a New York General Partnership, organized and existing under the laws of the State of New York, d/b/a Time Warner Cable with a local place of business located at 340 Eastern Blvd., Watertown, New York, and holder of a cable television franchise in the Town of Cape Vincent for the approval of an agreement to renew Time Warner Entertainment-Advanced Newhouse Partnership's cable television franchise for an additional ten (10) years. The Franchise Renewal Agreement would bring the franchise into conformity with certain provisions of the Federal Cable Communications Policy Act of 1984, as amended, and certain court rulings.

A public hearing was held at the Town Hall, Cape Vincent, New York on May
8, 2003 at 8:00 p.m. and notice of the hearing was published in
the Thousand Islands Sun on April 23, 2003. The Town
Board for the Town of Cape Vincent voted to approve the agreement to renew the Time Warner
Entertainment-Advanced Newhouse Partnership cable television franchise on May
8, 2003.

NOW, THEREFORE, the Town Board of the Town of Cape Vincent finds that:

1. Time Warner Entertainment-Advanced Newhouse Partnership d/b/a Time Warner Cable has substantially complied with the material terms and conditions of its existing franchise and with applicable law; and

2. The quality of Time Warner Entertainment-Advanced Newhouse Partnership's service, including signal quality, response to customer complaints and billing practices has been reasonable in light of community needs; and
3. Time Warner Entertainment-Advanced Newhouse Partnership has the financial, legal and technical ability to provide the services, facilities and equipment as set forth in its proposal attached; and
4. Time Warner Entertainment-Advanced Newhouse Partnership can reasonably meet the future cable-related community needs and interests, taking into account the cost of meeting such needs and interests.

BE IT FURTHER RESOLVED that the Town Board of the Town of Cape Vincent hereby renews the cable television franchise of Time Warner Entertainment-Advanced Newhouse Partnership in the Town of Cape Vincent for ten (10) years commencing May 8, 2003 and expiring May 8, 2013. **BE IT FURTHER RESOLVED** that the Town Board of the Town of Cape Vincent hereby confirms that this Franchise Renewal Agreement replaces the original franchise granted and all amendments thereto.

The foregoing having received a yes vote was thereby declared adopted.

Dated: May 8, 2003

Robert Anguano
Town Clerk
Town of Cape Vincent

APPLICATION FOR RENEWAL OF FRANCHISE
OR CERTIFICATE OF CONFIRMATION
(Form R-2):

1. The exact legal name of applicant is :

Time-Warner Entertainment-Advance/Newhouse Partnership

2. Applicant does business under the following name or names:

Time Warner Cable - Syracuse Division

3. Applicant's mailing address is:

6005 Fair Lakes Road

P.O. Box 4733

East Syracuse, NY 13221

4. Applicant's telephone number(s) is (are):

(315) 634-6200 Time Warner Cable (315) 493-3520 Time Warner Cable

6005 Fair Lakes Road

10 N. Broad Street

East Syracuse, NY 13221

P.O. Box 470

Carthage, NY 13619

5. (a) This application is for the renewal of operating rights in the

Town of Cape Vincent - Jefferson County
(Municipality & County)

- (b) Applicant serves the following additional municipalities from the same headend or from a different headend but in the same or adjacent county:

See Attached List (Exhibit 1)

6. The number of subscribers in each of the municipalities noted above is:

- Primary residential connections	<u>See Question #5(b)</u>
- Secondary residential connections	<u>N/A</u>
- Residential pay-cable subscriptions	<u>N/A</u>
- Commercial connections	<u>N/A</u>
- Other	<u>N/A</u>

7. The following signals are regularly carried by the applicant's cable system (where signals are received other than by direct off-air pickup, please so indicate):

See Attached Channel Line-Up Card (Exhibit A)

8. Applicant does X does not _____ provide channel capacity and/or production facilities for local origination. If answer is affirmative, specify below the number of hours of locally originated programming carried by the system during the past twelve months and briefly describe the nature of the programming:

Applicant has carried over 100 hours of locally originated programming of various types, including PEG Access.

9. The current monthly rates for service in the municipality specified in Question 5(a) are:

- Primary residential connections	<u>See Attached Rate Card (Exhibit B)</u>
- Secondary residential connections	<u>See Attached Rate Card (Exhibit B)</u>
- Pay-cable subscriptions	<u>See Attached Rate Card (Exhibit B)</u>
- Commercial connections	<u>See Attached Rate Card (Exhibit B)</u>
- Other	<u>See Attached Rate Card (Exhibit B)</u>

10. How many miles of new cable television plant were placed in operation by applicant during the past twelve months in the municipality specified in Question 5(a)? 0 miles
In the municipalities specified in Question 5(b)? See Attached List (Exhibit 2)

11. State and describe below any significant achievements and/or improvements that took place with respect to system operation during the past twelve months:

The System is rebuilt to a minimum of 750 MHZ.

12. Indicate whether applicant has previously filed with the NYS Department of Public Service its:

(a) Current Statement of Assessment pursuant to Section 217 Chapter 83?

X Yes No

(b) Current Annual Financial Report? X Yes No

If answer to any of the above is negative, please explain:

N/A

13. Has any event or change occurred during the past twelve months which has had, or could have, a significant impact upon applicant's ability to provide cable television service? If so describe below:

No event or change has occurred during the past twelve months which has had, or

could have, a significant impact upon applicant's ability to provide cable television

services.

WHEREFORE, the applicant, Time Warner Cable, requests that the New York State Public Service Commission grant this application and approve the Town of Cape Vincent Certificate of Confirmation and Franchise Agreement.



Mary L. Cotter
President

Time Warner Cable - Syracuse Division

Dated: May 19, 2003

Please attach a copy of applicant's current annual performance test.

STATE OF NEW YORK)
) S.S.:
COUNTY OF ONONDAGA)

MARY L. COTTER, being sworn, says:

1. I am President of the Syracuse Division of Time Warner Cable and
I am familiar with the business operations of the Company
2. This application was prepared by me or under my direct supervision.
3. All of the statements and information contained herein are true and
accurate to the best of my knowledge and belief.



Mary L. Cotter

Sworn to before me this

19th day of May, 2003



Notary Public

Gary J. Corbett
Notary Public, State of New York
No. 01C04700481
Qualified in Onondaga County
My Commission Expires March 31, 2008

EXHIBIT A

We're pleased to announce our new Digital Video Recorder (DVR) service which allows you to watch TV on your schedule. Now, you can find and automatically record your favorite shows, right in your cable box. Our new DVR-capable Home Terminals let you record two different programs simultaneously, or watch one program and record another at the same time. The service also features "picture-in-picture" and the ability to pause, rewind and fast-forward recorded programs—you can even pause live TV for up to an hour, then resume watching exactly where you left off! Our DVR service lets you record up to 40 hours of programming, and the easy-to-use on-screen menus and our Interactive Program Guide make it easy to learn, with no expensive equipment to buy. Call our office if you'd like more information or to order our DVR service.

The costs to provide these services and the variety of new and exciting programming have risen over the past year. To offset these rising business costs, we will introduce new prices for some components of our service effective January 1, 2003. Our new monthly rate for Basic Service will be \$7.54, and Standard Service will be \$40.53. Detailed rate information for services and equipment can be found on the panel to the right.

We recognize that you have a variety of entertainment options, and we appreciate the opportunity to serve you. We are committed to providing you with the highest quality choices and value. For more information on Time Warner Cable and our available services, visit our website at www.twcny.com.

Time Warner Cable

Watertown/Carthage/1 Islands

WA/CA/IS

Rates & Services		Effective 1/1/03
A. Cable Service:		
Basic Service (15 channels):		\$7.54
Standard Service (71 channels):		
(Consists of Basic Service @ \$7.54/mo. + all Standard channels @ \$32.99/mo.)		\$40.53
Seasonal Vacation		\$5.00
Channel Guide Monthly Publication		\$2.75
B. Premium Services:		
Home Box Office		\$9.95
Cinemax		\$9.95
Showtime		\$9.95
The Movie Channel (Digital only)		\$9.95
STARZ! (Digital only)		\$7.75
* Additional equipment required to receive these Premium Services.		
C. Digital Cable Services:		
Full Digital Cable Service		
(includes channels 100-209, plus Digital Navigator Package)		\$10.00
Digital Plus (channels 100-199, plus Digital Navigator Package)		\$8.95
Digital Movie Pak		
(includes channels 200-209, plus Digital Navigator Package)		\$7.95
Digital Navigator Package		
(includes Interactive Program Guide, 40 Music Choice channels, plus access to iNDEMAND and premium services)		\$3.95
Digital Programming on		
Additional Outlet (each)		\$.95
Digital Video Recorder (DVR) Service		\$ 9.95
* Digital Terminal required for all Digital Cable services.		
D. Equipment:		
Home Terminal (analog)/Digital Terminal		\$6.60
Remote/Digital Remote		\$.35
E. Installation Charges:		
Standard Install/Reconnect		
(pre-wired home)		\$31.81
Standard Installation (unwired home)		\$45.86
Hourly Service Charge		\$37.62
Additional Outlet(s) at time of initial installation		\$19.89
Additional Outlet(s), separate trip		\$31.74
(Sales tax will be applied to installation charges)		

Digital Terminal is required in order to receive some channels and/or services. Rates and charges apply to standard residential installations and services. The above rates for cable service packages and equipment do not include franchise fees or State and Federal regulatory fees.



340 Eastern Blvd. • Watertown, NY 13601
(315) 782-5240 • www.twcny.com
In Carthage: (315) 493-3520 or (800) 439-1113

Watertown / Carthage / 1000 Islands

1/1/03

BASIC CABLE

- 2 WNYF-28 (Watertown, FOX)
- 3 WSTM-3 (Syracuse, NBC)
- 4 WWNY-7 (Watertown, CBS)
- 5 WWTI-50 (Watertown, ABC)
- 7 TV Guide
- 8 WPBS-16 (Watertown, PBS)
- 9 TBS
- 10 Local WeatherNOW
- 11 CKWS-11 (Kingston, Ont., CBC)
- 12 WGN-9 (Chicago, IND.)
- 13 CJOH-13 (Ottawa, Ont., CTV)
- 14 WBWT (WB Network)
- 96 Leased Access
- 97 Leased Access
- 99 Public Access

STANDARD CHANNELS

- 15 USA
- 16 The Disney Channel
- 17 CNN
- 18 Headline News
- 19 QVC
- 20 ABC Family
- 21 ESPN
- 22 TNT
- 23 EWTN
- 24 Animal Planet
- 25 Cartoon Network
- 26 FoxSports New York
- 27 The Discovery Channel
- 28 TNN: The National Network
- 29 VH-1
- 30 CMT: Country Music Television
- 31 TV Land
- 32 Nickelodeon
- 33 Lifetime
- 34 Court TV
- 35 The Weather Channel
- 36 BET
- 37 BRAVO!
- 38 A&E
- 39 MTV
- 40 MSG: Madison Square Garden
- 41 AMC: American Movie Classics

- 42 HSN: Home Shopping Network
- 43 CNBC
- 44 Cable System Information
- 49 FX Network
- 50 The Learning Channel
- 51 ESPN2
- 52 HGTV: Home & Garden TV
- 53 Food Network
- 55 The History Channel
- 56 Lifetime Movie Network
- 58 YES: Yankees Sports
- 59 MSNBC
- 60 E!
- 61 Travel Channel
- 62 C-SPAN
- 63 Sci-Fi Channel
- 64 PAX TV
- 65 C-SPAN 2
- 66 Comedy Central
- 67 ESPN Classic
- 68 TCM: Turner Classic Movies
- 69 National Geographic
- 70 WE: Women's Entertainment
- 71 Oxygen
- 72 Univision
- 73 Shop NBC
- 74 SoapNet
- 75 FOX News Channel
- 78 Golf Channel

PREMIUM CHANNELS

- 6 HBO
- 45 HBO2
- 46 More Max
- 47 Cinemax
- 48 Showtime

TIME WARNER HOME THEATER: IN DEMAND

- 54 iN DEMAND 1
800-934-4481
- 57 Hot Choice (6:00am-10pm)
800-723-4486
- 57 Spice (10pm-6:00am)
800-723-4486

EXHIBIT B

Digital Cable Lineup

100	MSG—Madison Square Garden	208	FOX Movie Channel
101	ESPN Classic	209	IFC: Independent Film Channel
102	The Golf Channel		Premium Channels
103	Speed Channel		<i>additional fees apply.</i>
105	Outdoor Channel	300	HBO
106	FOX Sports World	301	HBO West
107	ESPN News	302	HBO2
109	Information	303	HBO2 West
110	TCM: Turner Classic Movies	304	HBO Signature
111	AMC: American Movie Classics	305	HBO Signature West
112	Lifetime Real Women	306	HBO Family
120	Discovery Kids	307	HBO Family West
121	Discovery Science	308	HBO Comedy
122	Discovery Wings	309	HBO Comedy West
123	Discovery Health	310	HBO Zone
124	Discovery Civilization	311	HBO Zone West
125	Discovery Leisure	312	HBO Latino
126	The History Channel	313	HBO Latino West
127	History International	320	Cinemax
128	National Geographic	321	Cinemax West
129	BBC America	322	MoreMax
130	The Biography Channel	323	MoreMax West
131	Court TV	324	ThrillerMax
132	CNNfn	325	ThrillerMax West
133	C-SPAN3	326	ActionMax
134	NewsWorld International	327	ActionMax West
135	Bloomberg	328	wmax
136	CNBC World	329	@max
137	Tech TV	330	Starmax
138	Do It Yourself	331	outermax
140	CMT: Country Music TV	340	Showtime
141	Great American Country	341	Showtime Too
142	MTV2	342	Showtime Showcase
143	MuchMusic	343	Showtime Extreme
144	VH1 Classic	344	Showtime Beyond
145	BET on Jazz	345	Showtime Next
150	Ovation	346	Showtime Women
151	Bravo	347	Showtime Family Zone
152	TRIO	350	The Movie Channel
159	Fine Living	351	The Movie Channel Xtra
160	Style	360	STARZ!
161	Health Network	361	STARZ! West
162	Game Show Network	362	STARZ! Theater
163	America's Store	363	STARZ! Theater West
170	Disney	364	STARZ! Family
171	Disney West	365	STARZ! Family West
172	Toon Disney	366	STARZ! Cinema
173	Noggin	367	STARZ! Cinema West
174	Nick Too	368	Black STARZ!
175	Nick Gas	369	Black STARZ! West
176	Boomerang		High Definition and
190	TBN—Trinity Broadcasting Network		Digital Broadcast Channels
200	Encore	800	HBO HDTV
201	Encore West	801	Showtime HDTV
202	Encore Action	863	WSTRM (Syracuse, NBC)
203	Encore Love Stories		<i>* HD-compatible converter and TV set</i>
204	Encore Mystery		<i>required to receive HD signals.</i>
205	Encore Westerns		
206	Encore True Stories		
207	WAMI		

Don't have Digital Cable? Here's what you're missing!

- More than 42 Digital-only channels including BBC America, The Biography Channel, Bloomberg, VH1 Classic, Game Show Network and Noggin. A total of eight channels programmed especially for children, plus a variety of news and information services, and five music video channels you won't see anywhere else!
- Commercial-free, CD-quality music on our 45-channel Music Choice service (channels 701-745). From country to classical, rock to opera, jazz to show tunes—you're sure to find a channel that suits your tastes, programmed 24 hours a day for your listening enjoyment.
- Like movies? Our Time Warner Home Theatre provides access to 39 IN DEMAND channels (channels 401-434, and 490-494), offering you the newest blockbusters with convenient start times. Save a trip to the video store, and order from the comfort of your own home using just a couple of buttons on your Digital Remote Control. Check out our season-long Sports packages, too!
- Have you heard about Digital Video Recorders? Before now, these units were expensive to buy. But, Time Warner Cable's new DVR service is included in our newest, state-of-the-art Digital Home Terminals. The monthly service rate of just \$9.95 lets you record programs directly from our easy-to-understand Interactive Program Guide, and our box will save up to 40 hours of your favorite programming, even letting you watch one show while recording another. You can even pause and rewind live TV! (See the special DVR offer included in this mailing.)
- It's a new age of television with the advent of High-Definition transmission, and you'll now find those services beginning at channel 800 (with HBO HDTV) and channel 801 (Showtime HDTV). A special HD-capable Home Terminal is required for HDTV-programming.
- Coming soon—iCONTROL is video-on-demand. iCONTROL lets you browse from constantly updated movie and program libraries, order programs with your remote control, then view, pause, rewind and fast-forward them—just as you would a videotape or DVD. Watch your movies on your schedule. With our additional subscription and free-on-demand services, you'll be able to catch up on your favorite episode of "The Sopranos" or get help with your home improvement projects. When launched, find the iCONTROL channels beginning at channel 500 (Movies on Demand), subscription video-on-demand beginning at 525 (HBO on Demand), and our free-on-demand services beginning at 550.

Now, with Time Warner Digital Cable, anything's possible!



Watertown / Carthage / 1000 Islands

Dear Time Warner Cable Customer:

We're pleased to bring you up-to-date with your Time Warner Cable service. In this mailing we have provided you with a new channel lineup card (attached) that features all of our available channels, along with descriptions of exciting new services and details of rate changes for some services effective January 1.

This past year, we've strived to enhance our programming by adding several new networks to our Standard service. We increased your lineup with four new channels including YES: Yankees Entertainment and Sports, The National Geographic Channel, Lifetime Movie Network and Local WeatherNOW, found exclusively on Time Warner Cable channel 10.

If you don't already have Digital Cable, see what you're missing by reviewing our Digital lineup. Then, call us to add this service which also features: an easy-to-use Interactive Program Guide; 45 commercial-free, Digital music channels; access to 39 Pay-Per-View channels with Time Warner Home Theatre; sports packages like the NHL Center Ice; and more than 55 screens of commercial-free premium movie channels. There has never been a better time to join the Digital Cable revolution, and with our introduction of our video-on-demand service you'll even be able to browse a library of movies and your favorite programs and order, play, pause, rewind and fast-forward those with the touch of a button.



WA/CA/IS

CURRENT ANNUAL PERFORMANCE TEST

Exhibit 1

R. Strong

FCC PROOF OF PERFORMANCE TEST

WATERTOWN REGION



TIME WARNER

CABLE SYRACUSE DIVISION

January / February 2003

TIME WARNER CABLE -- SYRACUSE DIVISION

FCC Proof - of - Performance Tests

System Name: Carthage / Watertown

Plant Mileage: 926.4 **As of** January 6, 2003

Basic Subscribers: 30573 **As of** January 30, 2003

System Bandwidth: 550 mHz

Number of Channels Tested: 9

Number of Test Points: 14

Test Start Date: January 6, 2003

Test Completion Date: January 30, 2003

TIME WARNER CABLE -- SYRACUSE DIVISION

SYSTEM NAME: Carthage / Watertown

DATE: January 30, 2003

FCC TESTING SUMMARY

Changes Since Last Proof of Performance:

Turned down Watertown headend and converted to am fiber feed for all channels except pay-per-view and premiums. This was done during channel lineup changes 10/01/02.

Changed feed to Henderson from EDFA to a dedicated EMS transmitter.

Test Results:

All testing is in compliance.

Miscellaneous:

The Headend Locations listed on all Page 11's Reflect the area Serviced and not the Physical Location of the Headend being Tested.

TIME WARNER CABLE -- SYRACUSE DIVISION

SYSTEM NAME:

Carthage / Watertown

Date :

January 6, 2003

ACTUAL CH/TV	CARRIER FREQ.	CONV. CH/TV	TYPE	SC Y/N	VIS Y/N	CALL ID	PROG SOURCE	ACTUAL CH/TV	CARRIER FREQ.	CONV. CH/TV	TYPE	SC Y/N	VIS Y/N	CALL ID	PROG SOURCE
2	55.2500	2	TV		Y	WNYF	COMLUX	DD(40)	319.2625	40	TV			MSG	SATELLITE
3	61.2500	3	TV		Y	WSTM	PRISMA	EE(41)	325.2625	41	TV		Y	AMC	SATELLITE
4	67.2500	4	TV		Y	WWNY	COMLUX	FF(42)	331.2750	42	TV		Y	HSN	SATELLITE
5	77.2500	5	TV			WWTI	COMLUX	GG(43)	337.2625	43	TV		Y	CNBC	SATELLITE
6	83.2500	6	TV			HBO	SATELLITE	HH(44)	343.2625	44	TV			SYSTEM.INFO	IN HOUSE
A-5(95)	91.2500							II(45)	349.2625	45	TV			HBO PLUS	SATELLITE
A-4(96)	97.2500	96	TV				IN HOUSE	JJ(46)	355.2625	46	TV			MORE MAX	SATELLITE
A-3(97)	103.2500							KK(47)	361.2625	47	TV			CINEMAX	SATELLITE
A-2(98)	109.2750							LL(48)	367.2625	48	TV			SHOWTIME	SATELLITE
A-1(99)	115.2750	99	TV			P.E.G.	IN HOUSE	MM(49)	373.2625	49	TV			FX	SATELLITE
A(14)	121.2625	14	TV			WBWT	SATELLITE	NN(50)	379.2625	50	TV			LEARNING CH	SATELLITE
B(15)	127.2625	15	TV		Y	USA	SATELLITE	OO(51)	385.2625	51	TV			ESPN2	SATELLITE
C(16)	133.2625	16	TV		Y	DISNEY	SATELLITE	PP(52)	391.2625	52	TV		Y	HGTV	SATELLITE
D(17)	139.2500	17	TV		Y	CNN	SATELLITE	QQ(53)	397.2625	53	TV			TV FOOD	SATELLITE
E(18)	145.2500	18	TV		Y	HEADLINE NEW	SATELLITE	RR(54)	403.2500	54	TV			IN-1	SATELLITE
F(19)	151.3210	19	TV		Y	QVC	SATELLITE	SS(55)	409.2500	55	TV			HISTORY CH	SATELLITE
G(20)	157.2500	20	TV			ABC FAMILY	SATELLITE	TT(56)	415.2500	56	TV			LIFETIME MOVIE	SATELLITE
H(21)	163.2500	21	TV			ESPN	SATELLITE	UU(57)	421.2500	57	TV			H.C./SPICE	SATELLITE
I(22)	169.2500	22	TV		Y	TNT	SATELLITE	VV(58)	427.2500	58	TV			YES	SATELLITE
7	175.2500	7	TV			TV GUIDE	SATELLITE	WW(59)	433.2500	59	TV		Y	MSNBC	SATELLITE
8	181.2500	8	TV		Y	WPBS	COMLUX	XX(60)	439.2500	60	TV			E!	SATELLITE
9	187.2500	9	TV		Y	WTBS	SATELLITE	YY(61)	445.2500	61	TV			TRAVEL	SATELLITE
10	193.2500	10	TV			WEATHER NOV	DIG BOX	ZZ(62)	451.2500	62	TV			C-SPAN	SATELLITE
11	199.2500	11	TV			CKWS	OFF AIR	63	457.2500	63	TV			SCI-FI	SATELLITE
12	205.2500	12	TV			WGN	SATELLITE	64	463.2500	64	TV			PAX	SATELLITE
13	211.2500	13	TV		Y	CJOH	COMLUX	65	469.2500	65	TV			C-SPAN II	SATELLITE
J(23)	217.2500	23	TV			EWTN	SATELLITE	66	475.2500	66	TV		Y	COMEDY	SATELLITE
K(24)	223.2500	24	TV		Y	ANIMAL PLANE	SATELLITE	67	481.2500	67	TV			ESPN CLASSIC	SATELLITE
L(25)	229.2625	25	TV		Y	CARTOON	SATELLITE	68	487.2500	68	TV			TCM	SATELLITE
M(26)	235.2625	26	TV			F.S.N.Y.	SATELLITE	69	493.2500	69	TV			NAT. GEO.	SATELLITE
N(27)	241.2625	27	TV		Y	DISCOVERY	SATELLITE	70	499.2500	70	TV			WE	SATELLITE
O(28)	247.2625	28	TV		Y	TNN	SATELLITE	71	505.2500	71	TV			OXYGEN	SATELLITE
P(29)	253.2625	29	TV		Y	VH-1	SATELLITE	72	511.2500	72	TV			UNIVISION	SATELLITE
Q(30)	259.2625	30	TV		Y	CMTV	SATELLITE	73	517.2500	73	TV		Y	SHOP NBC	SATELLITE
R(31)	265.2625	31	TV			TV LAND	SATELLITE	74	523.2500	74	TV			SOAP NET	SATELLITE
S(32)	271.2625	32	TV			NICKELODEON	SATELLITE	75	529.2500	75	TV		Y	FOX NEWS	SATELLITE
T(33)	277.2625	33	TV		Y	LIFETIME	SATELLITE	76	535.2500						
U(34)	283.2625	34	TV			COURT TV	SATELLITE	77	541.2500						
V(35)	289.2625	35	TV		Y	WEATHER CH.	SATELLITE	78	547.2500	78	TV			GOLF CH	SATELLITE
W(36)	295.2625	36	TV		Y	BET	SATELLITE	79	553.2500						
AA(37)	301.2625	37	TV			BRAVO	SATELLITE	80	559.2500						
BB(38)	307.2625	38	TV		Y	A&E	SATELLITE	81	565.2500						
CC(39)	313.2625	39	TV		Y	MTV	SATELLITE								

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME:

Watertown

Date :

January 6, 2003

ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SC Y	MISC CABLE	PROG SOURCE	ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SC Y	MISC CABLE	PROG SOURCE
2	55.2500						DD(40)	319.2625					
3	61.2500						EE(41)	325.2625					
4	67.2500						FF(42)	331.2750					
5	77.2500						GG(43)	337.2625					
6	83.2500	6	TV	Y		HBO	HH(44)	343.2625					
A-5(95)	91.2500						II(45)	349.2625	45	TV	Y		HBO PLUS SATELLITE
A-4(96)	97.2500						JJ(46)	355.2625	46	TV	Y		MORE MAX SATELLITE
A-3(97)	103.2500	97	TV			In House	KK(47)	361.2625	47	TV	Y		CINEMAX SATELLITE
A-2(98)	109.2750						LL(48)	367.2625	48	TV	Y		SHOWTIME SATELLITE
A-1(99)	115.2750	99	TV			P.E.G.	MM(49)	373.2625					
A(14)	121.2625						NN(50)	379.2625					
B(15)	127.2625						OO(51)	385.2625					
C(16)	133.2625						PP(52)	391.2625					
D(17)	139.2500						QQ(53)	397.2625					
E(18)	145.2500						RR(54)	403.2500	54	TV	Y		IN-1 SATELLITE
F(19)	151.3210						SS(55)	409.2500					
G(20)	157.2500						TT(56)	415.2500					
H(21)	163.2500						UU(57)	421.2500	57	TV	Y		H.C./SPICE COMLUX
I(22)	169.2500						VV(58)	427.2500					
7	175.2500						WW(59)	433.2500					
8	181.2500						XX(60)	439.2500					
9	187.2500						YY(61)	445.2500					
10	193.2500						ZZ(62)	451.2500					
11	199.2500						63	457.2500					
12	205.2500						64	463.2500					
13	211.2500						65	469.2500					
J(23)	217.2500						66	475.2500					
K(24)	223.2500						67	481.2500					
L(25)	229.2625						68	487.2500					
M(26)	235.2625						69	493.2500					
N(27)	241.2625						70	499.2500					
O(28)	247.2625						71	505.2500					
P(29)	253.2625						72	511.2500					
Q(30)	259.2625						73	517.2500					
R(31)	265.2625						74	523.2500					
S(32)	271.2625						75	529.2500					
T(33)	277.2625						76	535.2500					
U(34)	283.2625						77	541.2500					
V(35)	289.2625						78	547.2500					
W(36)	295.2625						79	553.2500					
AA(37)	301.2625						80	559.2500					
BB(38)	307.2625						81	565.2500					
CC(39)	313.2625												

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME:

Indian River

Date :

January 6, 2003

ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SC VTS	CALL ID	PROG NAME	ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SC VTS	CALL ID	PROG NAME
2	55.2500						DD(40)	319.2625					
3	61.2500						EE(41)	325.2625					
4	67.2500						FF(42)	331.2750					
5	77.2500						GG(43)	337.2625					
6	83.2500						HH(44)	343.2625					
A-5(95)	91.2500						II(45)	349.2625					
A-4(96)	97.2500						JJ(46)	355.2625					
A-3(97)	103.2500						KK(47)	361.2625					
A-2(98)	109.2750						LL(48)	367.2625					
A-1(99)	115.2750	99	TV		P.E.G.	IN HOUSE	MM(49)	373.2625					
A(14)	121.2625						NN(50)	379.2625					
B(15)	127.2625						OO(51)	385.2625					
C(16)	133.2625						PP(52)	391.2625					
D(17)	139.2500						QQ(53)	397.2625					
E(18)	145.2500						RR(54)	403.2500					
F(19)	151.3210						SS(55)	409.2500					
G(20)	157.2500						TT(56)	415.2500					
H(21)	163.2500						UU(57)	421.2500					
I(22)	169.2500						VV(58)	427.2500					
7	175.2500						WW(59)	433.2500					
8	181.2500						XX(60)	439.2500					
9	187.2500						YY(61)	445.2500					
10	193.2500						ZZ(62)	451.2500					
11	199.2500						63	457.2500					
12	205.2500						64	463.2500					
13	211.2500						65	469.2500					
J(23)	217.2500						66	475.2500					
K(24)	223.2500						67	481.2500					
L(25)	229.2625						68	487.2500					
M(26)	235.2625						69	493.2500					
N(27)	241.2625						70	499.2500					
O(28)	247.2625						71	505.2500					
P(29)	253.2625						72	511.2500					
Q(30)	259.2625						73	517.2500					
R(31)	265.2625						74	523.2500					
S(32)	271.2625						75	529.2500					
T(33)	277.2625						76	535.2500					
U(34)	283.2625						77	541.2500					
V(35)	289.2625						78	547.2500					
W(36)	295.2625						79	553.0000					
AA(37)	301.2625						80	559.0000					
BB(38)	307.2625						81	565.0000					
CC(39)	313.2625												

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME:

Clayton / Chaumont

Date :

January 6, 2003

ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SC SY	VIS SY	SAT LIT	PROG SOURCE	ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SC SY	VIS SY	SAT LIT	PROG SOURCE
2	55.2500							DD(40)	319.2625						
3	61.2500							EE(41)	325.2625						
4	67.2500							FF(42)	331.2750						
5	77.2500							GG(43)	337.2625						
6	83.2500							HH(44)	343.2625						
A-5(95)	91.2500							II(45)	349.2625						
A-4(96)	97.2500							JJ(46)	355.2625						
A-3(97)	103.2500							KK(47)	361.2625						
A-2(99)	109.2750							LL(48)	367.2625						
A-1(99)	115.2750	99	TV			P.E.G.	IN HOUSE	MM(49)	373.2625						
A(14)	121.2625							NN(50)	379.2625						
B(15)	127.2625							OO(51)	385.2625						
C(16)	133.2625							PP(52)	391.2625						
D(17)	139.2500							QQ(53)	397.2625						
E(18)	145.2500							RR(54)	403.2500						
F(19)	151.3210							SS(55)	409.2500						
G(20)	157.2500							TT(56)	415.2500						
H(21)	163.2500							UU(57)	421.2500						
I(22)	169.2500							VV(58)	427.2500						
7	175.2500							WW(59)	433.2500						
8	181.2500							XX(60)	439.2500						
9	187.2500							YY(61)	445.2500						
10	193.2500							ZZ(62)	451.2500						
11	199.2500							63	457.2500						
12	205.2500							64	463.2500						
13	211.2500							65	469.2500						
J(23)	217.2500							66	475.2500						
K(24)	223.2500							67	481.2500						
L(25)	229.2625							68	487.2500						
M(26)	235.2625							69	493.2500						
N(27)	241.2625							70	499.2500						
O(28)	247.2625							71	505.2500						
P(29)	253.2625							72	511.2500						
Q(30)	259.2625							73	517.2500						
R(31)	265.2625							74	523.2500						
S(32)	271.2625							75	529.2500						
T(33)	277.2625							76	535.2500						
U(34)	283.2625							77	541.2500						
V(35)	289.2625							78	547.2500						
W(36)	295.2625							79	553.2500						
AA(37)	301.2625							80	559.2500						
BB(38)	307.2625							81	565.2500						
CC(39)	313.2625														

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME:

Adams / Henderson

Date :

January 6, 2003

ACTUAL	CARRIER	CONV	SC	VIS	CALL	PROG	ACTUAL	CARRIER	CONV	SC	VIS	CALL	PROG
CH	NO						CH	NO					
2	55.2500						DD(40)	319.2625					
3	61.2500						EE(41)	325.2625					
4	67.2500						FF(42)	331.2750					
5	77.2500						GG(43)	337.2625					
6	83.2500						HH(44)	343.2625					
A-5(95)	91.2500						II(45)	349.2625					
A-4(96)	97.2500						JJ(46)	355.2625					
A-3(97)	103.2500						KK(47)	361.2625					
A-2(98)	109.2750						LL(48)	367.2625					
A-1(99)	115.2750	99	TV		P.E.G.	IN HOUSE	MM(49)	373.2625					
A(14)	121.2625						NN(50)	379.2625					
B(15)	127.2625						OO(51)	385.2625					
C(16)	133.2625						PP(52)	391.2625					
D(17)	139.2500						QQ(53)	397.2625					
E(18)	145.2500						RR(54)	403.2500					
F(19)	151.3210						SS(55)	409.2500					
G(20)	157.2500						TT(56)	415.2500					
H(21)	163.2500						UU(57)	421.2500					
I(22)	169.2500						VV(58)	427.2500					
7	175.2500						WW(59)	433.2500					
8	181.2500						XX(60)	439.2500					
9	187.2500						YY(61)	445.2500					
10	193.2500						ZZ(62)	451.2500					
11	199.2500						63	457.2500					
12	205.2500						64	463.2500					
13	211.2500						65	469.2500					
J(23)	217.2500						66	475.2500					
K(24)	223.2500						67	481.2500					
L(25)	229.2625						68	487.2500					
M(26)	235.2625						69	493.2500					
N(27)	241.2625						70	499.2500					
O(28)	247.2625						71	505.2500					
P(29)	253.2625						72	511.2500					
Q(30)	259.2625						73	517.2500					
R(31)	265.2625						74	523.2500					
S(32)	271.2625						75	529.2500					
T(33)	277.2625						76	535.2500					
U(34)	283.2625						77	541.2500					
V(35)	289.2625						78	547.2500					
W(36)	295.2625						79	553.2500					
AA(37)	301.2625						80	559.2500					
BB(38)	307.2625						81	565.2500					
CC(39)	313.2625												

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME:

Lowville / Lewis

Date :

January 6, 2003

[illegible]

TIME WARNER CABLE--SYRACUSE DIVISION

SYSTEM NAME: Lowville,Adams,Lewis,Henderson

Date : January 6, 2003

ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SC Y	VIS Y	CAT LTP	PROG SOURCE	ACTUAL CHAN	CARRIER FREQ	CONV CHAN	TYPE	SC Y	VIS Y	CAT LTP	PROG SOURCE
2	55.2500							DD(40)	319.2625						
3	61.2500							EE(41)	325.2625						
4	67.2500							FF(42)	331.2750						
5	77.2500							GG(43)	337.2625						
6	83.2500							HH(44)	343.2625						
A-5(95)	91.2500							II(45)	349.2625						
A-4(96)	97.2500							JJ(46)	355.2625						
A-3(97)	103.2500							KK(47)	361.2625						
A-2(98)	109.2750							LL(48)	367.2625						
A-1(99)	115.2750							MM(49)	373.2625						
A(14)	121.2625							NN(50)	379.2625						
B(15)	127.2625							OO(51)	385.2625						
C(16)	133.2625							PP(52)	391.2625						
D(17)	139.2500							QQ(53)	397.2625						
E(18)	145.2500							RR(54)	403.2500						
F(19)	151.3210							SS(55)	409.2500						
G(20)	157.2500							TT(56)	415.2500						
H(21)	163.2500							UU(57)	421.2500						
I(22)	169.2500							VV(58)	427.2500						
7	175.2500							WW(59)	433.2500						
8	181.2500							XX(60)	439.2500						
9	187.2500							YY(61)	445.2500						
10	193.2500							ZZ(62)	451.2500						
11	199.2500							63	457.2500						
12	205.2500							64	463.2500						
13	211.2500							65	469.2500						
J(23)	217.2500							66	475.2500						
K(24)	223.2500							67	481.2500						
L(25)	229.2625							68	487.2500						
M(26)	235.2625							69	493.2500						
N(27)	241.2625							70	499.2500						
O(28)	247.2625							71	505.2500						
P(29)	253.2625							72	511.2500						
Q(30)	259.2625							73	517.2500						
R(31)	265.2625							74	523.2500						
S(32)	271.2625							75	529.2500						
T(33)	277.2625							76	535.2500	76	TV			Empire Sports	Satellite
U(34)	283.2625							77	541.2500	77	TV	Y		Starz	Satellite
V(35)	289.2625							78	547.2500						
W(36)	295.2625							79	553.2500						
AA(37)	301.2625							80	559.2500						
BB(38)	307.2625	38	TV	Y		A&E	SATELLITE	81	565.2500						
CC(39)	313.2625														

TIME WARNER CABLE -- SYRACUSE DIVISION

SYSTEM NAME: Carthage / Watertown

DATE: January 6, 2003

NON-VIDEO SERVICES

[illegible]

RATE MUX NUMBER	QAM NAME	QAM FREQUENCY	ANALOG CHANNEL	MOD. TYPE	SESSION NUMBER	MPEG IN	MPEG OUT	G-BIG MPEG	SERVICE	QAM SOURCE	DIGITAL CHANNEL
1A SWIF * SLOT 2 PORT 1	QAM1	567MHz	81	64	Below 20			128-138	BFS,IPG,etc.	DNCS	N/A
		BIG QAM	reserve 24 sessions								
2B QUAD ASI SLOT 1 PORT 1	QAM2	591 / 525 MHz	85 / 74	256	1911	12	12	12	INDemand 1	Satcom C3 Tr 3	401
	10	reserve 20 sessions			1916	6	6	6	INDemand 2	Satcom C3 Tr 3	402
	Rmux ad	172.16.4.222			1913	3	3	3	INDemand 3	Satcom C3 Tr 3	403
					1914	4	4	4	INDemand 4	Satcom C3 Tr 3	404
					1915	5	5	5	INDemand 5	Satcom C3 Tr 3	405
					1917	7	7	7	INDemand 6	Satcom C3 Tr 3	406
					1912	2	2	2	HC	Satcom C3 Tr 3	490
					1130	2	22	22	History	C3T12-RTE-BB3-6-BB2-13	130
					1218	3	8	8	GAC	C3T20-RTE-BB3-7-BB2-13	141
					1217	1	1	1	TBN	G5T3-RTE-BB3-8-BB2-13	190
1A QUAD ASI SLOT 5 PORT 1	QAM3	597 / 507 MHz	86 / 71	256	1300	1	1	1	HBO East	Galaxy 1 Tr 23(I)	300
	12	reserve 20 sessions			1301	2	2	2	HBO Plus East	Galaxy 1 Tr 23(I)	302
	Rmux ad	172.16.4.220			1302	3	3	3	HBO Signature East	Galaxy 1 Tr 23(I)	304
					1303	4	4	4	HBO Family East	Galaxy 1 Tr 23(I)	306
					1307	8	8	8	HBO Latino East	Galaxy 1 Tr 23(I)	312
					1310	21	21	21	Max East	Galaxy 1 Tr 23(I)	320
					1311	22	22	22	More Max East	Galaxy 1 Tr 23(I)	322
					1313	23	23	23	Action Max East	Galaxy 1 Tr 23(I)	326
					1370	7	7	7	WMAX East	Galaxy 1 Tr 18(I)	328
					1371	27	27	27	@MAX East	Galaxy 1 Tr 18(I)	329
					1372	44	44	44	5 StarMAX East	Galaxy 1 Tr 18(I)	330
					1373	30	30	30	OuterMAX East	Galaxy 1 Tr 18(I)	331
					6028	1	9	9	CH996 - Info		996
		Not built in the North Country			1312	24	24	24	Thriller Max East	Galaxy 1 Tr 18(I)	324
1B QUAD ASI SLOT 5 PORT 2	QAM4	603 / 513 MHz	87 / 72	256	1305	26	26	26	HBO Zone East	Galaxy 1 Tr 18(I)	310
	13	reserve 20 sessions			1304	6	11	11	HBO Comedy East	Galaxy 1 Tr 18(I)	308
	Rmux ad	172.16.4.248			1113	7	7	7	Encore	Galaxy 1 Tr 13	200
					1201	8	8	8	Encore West	Galaxy 1 Tr 13	201
					1206	9	9	9	WAMI	Galaxy 1 Tr 13	207
					1330	1	1	1	Starz1	Galaxy 1 Tr 13	360
					1357	2	2	2	Starz1 West	Galaxy 1 Tr 13	361
					1331	3	3	3	Starz12	Galaxy 1 Tr 13	362
					1332	4	4	4	Starz14 Family	Galaxy 1 Tr 13	364
					1333	6	6	6	Starz15 Cinema	Galaxy 1 Tr 13	366
					1358	10	10	10	Starz15 Cinema West	Galaxy 1 Tr 13	367
					1334	5	5	5	Bet Movies	Galaxy 1 Tr 13	368
3A QUAD ASI SLOT 1 PORT 2	QAM5	621 / 531 MHz	90 / 76	256	1918	8	8	8	INDemand 7	Satcom C4 Tr 18	407
	9	reserve 20 sessions			1919	9	9	9	INDemand 8	Satcom C4 Tr 18	408
	Rmux ad	172.16.4.246			1920	10	10	10	INDemand 9	Satcom C4 Tr 18	409
					1921	11	11	11	INDemand 10	Satcom C4 Tr 18	410
					1922	1	1	1	INDemand 11	Satcom C4 Tr 18	411
					1923	12	12	12	INDemand 12	Satcom C4 Tr 18	412
					2913	13	13	13	INDemand 13	Satcom C4 Tr 18	413
					2914	14	14	14	INDemand 14	Satcom C4 Tr 18	414
					1219	6	3	3	Nat Geo	Satcom C3 Tr 1	128
					1100	1	2	2	MSG	Local MPEG Encoders	100
3B QUAD ASI SLOT 1 PORT 3	QAM6	627 / 537 MHz	91 / 76	256	2915	1	1	1	INDemand 15	Telstar 7 Tr 2	415
	13	reserve 20 sessions			2916	2	2	2	INDemand 16	Telstar 7 Tr 2	416
	Rmux ad	172.16.4.221			2917	3	3	3	INDemand 17	Telstar 7 Tr 2	417
					2918	4	4	4	INDemand 18	Telstar 7 Tr 2	418
					2919	5	5	5	INDemand 19	Telstar 7 Tr 2	419
					2920	6	6	6	INDemand 20	Telstar 7 Tr 2	420
					2921	7	7	7	INDemand 21	Telstar 7 Tr 2	421
					2922	8	8	8	INDemand 22	Telstar 7 Tr 2	422
					1180	3	5	115	CSPAN-3	G10T20 BB2-3-BB2-13	133
					1116	4	6	113	Toon Disney	G10T20 BB2-3-BB2-13	172
					1117	1	3	114	ESPN News	G10T20 BB 2-3-BB2-13	107
					1102	2	38	38	ESPN Classic	G10T20 BB 2-3-BB2-13	101
					1119	10	10	10	G4	Telstar 7 Tr 2	119
					1181	8	39	39	Health	C3T22-BB3-6-BB2-13	181

6B QUAD ASI SLOT 7 PORT 3	QAM7	639 / 496 MHz	93 / 89	256	1362	11	11	11	HBO West	Galaxy 1 Tr 23(Q)	301
	11				1363	12	12	12	HBO Plus West	Galaxy 1 Tr 23(Q)	303
	Rmux ad	172.16.4.245			1364	13	13	13	HBO Signature West	Galaxy 1 Tr 23(Q)	305
					1365	14	14	14	HBO Family West	Galaxy 1 Tr 23(Q)	307
					1366	18	18	18	HBO Latino West	Galaxy 1 Tr 23(Q)	313
					1367	31	31	31	Max West	Galaxy 1 Tr 23(Q)	321
					1368	32	32	32	More Max West	Galaxy 1 Tr 23(Q)	323
					1369	33	33	33	Action Max West	Galaxy 1 Tr 23(Q)	327
					1374	15	15	15	HBO Cmdy West	Galaxy 1 Tr 18(Q)	309
					1375	16	16	16	HBO Zone West	Galaxy 1 Tr 18(Q)	311
					1376	34	34	34	Thriller Max West	Galaxy 1 Tr 18(Q)	325
4B QUAD ASI SLOT 3 PORT 1	QAM8	645 / 643 MHz	94 / 77	256	1202	1	1	1	Encore Action	Galaxy 1 Tr 3	202
	13	reserve 20 sessions			1203	3	3	3	Encore Love	Galaxy 1 Tr 3	203
	Rmux ad	172.16.4.247			1204	5	5	5	Encore Mystery	Galaxy 1 Tr 3	204
					1205	9	9	9	Encore Westerns	Galaxy 1 Tr 3	205
					1207	7	7	7	Encore True	Galaxy 1 Tr 3	208
					1947	13	13	13	INDemand Barker	Telstar 7 Tr 4	400
					2931	1	10	10	INDemand 31	Telstar 7 Tr 4	431
					2932	2	2	2	INDemand 32	Telstar 7 Tr 4	432
					2933	3	11	11	INDemand 33	Telstar 7 Tr 4	433
					2934	4	4	4	INDemand 34	Telstar 7 Tr 4	434
					1999	6	12	12	Spice	Telstar 7 Tr 4	492
					1998	7	6	6	Spice 2	Telstar 7 Tr 4	493
					2494	8	8	8	Pleasure	Telstar 7 Tr 4	494
6A QUAD ASI SLOT 2 PORT 2	QAM9	657 / 661 MHz	101 / 80	256	2923	1	1	1	INDemand 23	Telstar 7 Tr 3	423
	12	reserve 20 sessions			2924	2	2	2	INDemand 24	Telstar 7 Tr 3	424
	Rmux ad	172.16.4.250			2925	3	3	3	INDemand 25	Telstar 7 Tr 3	425
					2926	4	4	4	INDemand 26	Telstar 7 Tr 3	426
					2927	5	5	5	INDemand 27	Telstar 7 Tr 3	427
					2928	6	6	6	INDemand 28	Telstar 7 Tr 3	428
					2929	7	7	7	INDemand 29	Telstar 7 Tr 3	429
					2930	8	8	8	INDemand 30	Telstar 7 Tr 3	430
					1104	5	48	48	Speed Channel	C3T1 - BB2-7 - BB2-12	103
		Not in North Country			1127	10	10	10	Fine Living	Telstar 7 Tr 3	159
					5061	4	43	43	IFC	T7T14 - BB3-6 - BB2-12	209
					1948	9	9	9	iControl Barker	Telstar 7 Tr 3	
					1997	8	49	49	Playboy	T7T15 - BB2-6 - BB2-12	491
ASI N/A QUAD ASI SLOT 2 PORT 3	QAM10	663 / 555 MHz	102 / 79	256	1183	1	59	59	TRIO	G1RT24 - BB3-4 - BB2-11	152
	9	reserve 20 sessions			1185	2	60	60	Newsworld Int	G1RT24 - BB3-4 - BB2-11	134
					2106	8	54	54	FOX Sports World	C3T1 - BB2-7 - BB2-11	106
					1141	1	56	56	Bel on Jazz	G11T3 - BB2-1 - BB2-11	145
					1150	3	57	57	Ovation	G11T13 - BB3-4 - BB2-11	150
					1162	2	58	58	Game Show Network	C3T8 - BB3-4 - BB2-11	162
					1350	1	52	52	Disney E	G5T1 - RTE - BB2-5 - BB2-11	170
					1351	1	53	53	Disney W	G1T7 - BB3-3 - BB2-11	171
					1106	1	2	2	Outdoor Channel	G10T24 - BB2-4 - BB2-11	105

7B QUAD ASI SLOT 4 PORT 1	QAM11	669 / 649 MHz	103 / 78	256	1120	2	2	2	Discovery Kids	***	Satcom C3 Tr 22	120
	10-Video	reserve 127 sessions			1121	3	3	3	Discovery Science	***	Satcom C3 Tr 22	121
	45-Audio				2132	1	1	1	Discovery Health	***	Satcom C3 Tr 22	123
	Rmux ad	172.16.4.223			1122	7	4	4	Discovery Wings	***	Satcom C3 Tr 22	122
					1213	5	55	55	Discovery Civilizations	***	Satcom C3 Tr 22	124
					1212	4	54	54	Discovery Home & L.	***	Satcom C3 Tr 22	125
					1124	8	50	50	BBC America	***	Satcom C3 Tr 22	129
					1110	4	52	52	TCM	***	Galaxy 1R Tr 16	110
					1105	2	51	51	CNN-SI	***	Galaxy 1R Tr 15	104
					1133	1	53	53	CNN-FN	***	Galaxy 1R Tr 15	132
					1500	5		43	Showcase		Satcom C3 Tr 9	701
					1501	6		42	Today's Country		Satcom C3 Tr 9	702
					1502	7		49	Classic Country		Satcom C3 Tr 9	703
					1503	8		41	Americana		Satcom C3 Tr 9	704
					1504	9		40	Bluegrass		Satcom C3 Tr 9	705
					1505	10		39	R&B and Hip-Hop		Satcom C3 Tr 9	706
					1506	11		38	Classic R&B		Satcom C3 Tr 9	707
					1507	12		50	Smooth R&B		Satcom C3 Tr 9	708
					1508	13		33	Rap		Satcom C3 Tr 9	709
					1509	14		32	Metal		Satcom C3 Tr 9	710
					1510	15		29	Rock		Satcom C3 Tr 9	711
					1511	16		26	Power Rock		Satcom C3 Tr 9	712
					1512	17		23	Classic Rock		Satcom C3 Tr 9	713
					1513	18		17	Alternative Rock		Satcom C3 Tr 9	714
					1514	19		15	Electronica		Satcom C3 Tr 9	715
					1515	20		14	Dance		Satcom C3 Tr 9	716
					1516	21		36	Progressive		Satcom C3 Tr 9	717
					1517	22		36	Soft Rock		Satcom C3 Tr 9	718
					1518	23		34	Hit List		Satcom C3 Tr 9	719
					1519	24		30	Party Favorites		Satcom C3 Tr 9	720
					1520	25		18	80's		Satcom C3 Tr 9	721
					1521	26		9	New Wave		Satcom C3 Tr 9	722
					1522	27		10	70's		Satcom C3 Tr 9	723
					1523	28		11	Solid Gold Oldies		Satcom C3 Tr 9	724
					1524	29		12	Singers & Standards		Satcom C3 Tr 9	725
					1525	30		13	Big Band & Swing		Satcom C3 Tr 9	726
					1526	31		47	Easy Listening		Satcom C3 Tr 9	727
					1527	32		48	Smooth Jazz		Satcom C3 Tr 9	728
					1528	33		16	Jazz		Satcom C3 Tr 9	729
					1529	34		22	Blues		Satcom C3 Tr 9	730
					1530	35		45	Reggae		Satcom C3 Tr 9	731
					1531	36		46	Soundscapes		Satcom C3 Tr 9	732
					1532	37		28	Classical Masterpieces		Satcom C3 Tr 9	733
					1533	38		27	Opera		Satcom C3 Tr 9	734
					1534	39		31	Light Classical		Satcom C3 Tr 9	735
					1535	40		19	Show Tunes		Satcom C3 Tr 9	736
					1536	41		20	Contemporary Christian		Satcom C3 Tr 9	737
					1537	42		21	Gospel		Satcom C3 Tr 9	738
					1538	43		37	For Kids Only		Satcom C3 Tr 9	739
					1539	44		44	Sounds of the Seasons		Satcom C3 Tr 9	740
					1540	45		4	Musica Latina		Satcom C3 Tr 9	741
					1541	46		5	Salsa Merengue		Satcom C3 Tr 9	742
					1542	47		6	Rock 'En Espanol		Satcom C3 Tr 9	743
					1543	48		7	Latin Love Songs		Satcom C3 Tr 9	744
					1544	49		8	Mexicana		Satcom C3 Tr 9	745
2A QUAD ASI SLOT 5 PORT 3	QAM12	675 / 619 MHz	104 / 73	256	1341	7	7	7	TMC 2		Satcom C3 Tr 19	351
	13	reserve 20 sessions			1340	4	4	4	TMC		Satcom C3 Tr 19	350
	Rmux ad	172.16.4.251			1352	8	8	8	Showtime Beyond		Satcom C3 Tr 19	344
					1323	9	9	9	Showtime Extreme		Satcom C3 Tr 19	343
					1322	3	3	3	Showtime 3		Satcom C3 Tr 19	342
					1321	2	2	2	Showtime Too		Satcom C3 Tr 19	341
					1320	1	1	1	Showtime East		Satcom C3 Tr 19	340
					1324	5	5	5	FLIX		Satcom C3 Tr 19	18 Wtwn
	Analog Everywhere except North Country				1114	10	108	108	Lifetime Movie Ntwk		T7T14 - BB3-6 - BB2-12	112
					1190	50	50	50	MuchMusic		T7T14 - BB3-6 - BB2-12	143
					1181	4	109	109	Bloomberg		C3T8 - BB3-1 - BB2-12	136
					1112	7	45	45	FXM		C3T11 - BB2-7 - BB2-12	208

4A	QAM13	711 / n/a MHz	110	256	1800	1	1	1	NBA / WNBA CH.	GE 1 Tr 8	480
	14				1801	2	12	12	NBA / WNBA PPV 1	GE 1 Tr 8	481
	Rmux ad	172.16.4.219			1802	3	13	13	NBA / WNBA PPV 2	GE 1 Tr 8	482
					1803	4	14	14	NBA / WNBA PPV 3	GE 1 Tr 8	483
					1804	5	15	15	NBA / WNBA PPV 4	GE 1 Tr 8	484
					1805	6	16	16	NBA / WNBA PPV 5	GE 1 Tr 8	485
					1471	2	2	2	ESPN sports pkg 1	G7 (G11) Tr 6 Hts Feed (KU)	472
					1472	3	3	3	ESPN sports pkg 2	G7 (G11) Tr 6 Hts Feed (KU)	473
					1473	4	4	4	ESPN sports pkg 3	G7 (G11) Tr 6 Hts Feed (KU)	474
					1474	5	5	5	ESPN sports pkg 4	G7 (G11) Tr 6 Hts Feed (KU)	475
					1475	6	6	6	ESPN sports pkg 5	G7 (G11) Tr 6 Hts Feed (KU)	476
					1476	7	7	7	ESPN sports pkg 6	G7 (G11) Tr 6 Hts Feed (KU)	477
					1477	8	8	8	ESPN sports pkg 7	G7 (G11) Tr 6 Hts Feed (KU)	478
					1478	10	10	10	ESPN sports pkg 8	G7 (G11) Tr 6 Hts Feed (KU)	479
5B QUAD ASI SLOT 2 PORT 2	QAM14	717 / 579 MHz	111 / 83	256	9001	1	1	1	NHL / MLB 1	GE 1 Tr 13	480
	15				9002	2	2	2	NHL / MLB 2	GE 1 Tr 13	481
	Rmux ad	172.16.4.253			9003	3	3	3	NHL / MLB 3	GE 1 Tr 13	482
					9004	4	4	4	NHL / MLB 4	GE 1 Tr 13	483
					9005	5	5	5	NHL / MLB 5	GE 1 Tr 13	484
					9006	6	6	6	NHL / MLB 6	GE 1 Tr 13	485
					9007	7	7	7	NHL / MLB 7	GE 1 Tr 13	486
					9008	8	8	8	NHL / MLB 8	GE 1 Tr 13	487
					9009	9	9	9	NHL / MLB 9	GE 1 Tr 13	488
					1306	51	51	51	HBO East HDTV	Telstar 7 Tr 17	391
6A QUAD ASI 7 PORT 1	QAM15	735 / 489 MHz	114 / 68	256	1359	6	6	6	Starz12 West	Satcom C4 Tr 5	363
	Rmux ad	172.16.4.249			1361	8	8	8	Starz14 Family West	Satcom C4 Tr 5	365
					1125	20	20	20	History Int	T7-T14 BB3-6 BB2-14	130
		Not in North Country			1126	30	30	30	Biography	T7-T14 BB3-6 BB2-14	127
		Not in North Country			1360	7	7	7	Bet Movies West	Satcom C4 Tr 5	369
					1131	1	48	46	Court TV	C3T6 - BB2-8 - BB2-12	131
					1160	1	1	107	Style	C3T8 - BB3-1 - BB2-12	160
6A QUAD ASI 7 PORT 1	QAM16	741 / 489 MHz	115 / 68	256	1353	1	1	1	Showtime Next	Satcom C3 Tr 16	345
	1-HDTV, 3 std				1355	3	3	3	Showtime Women	Satcom C3 Tr 16	346
	Rmux ad	n/a			1354	2	2	2	Showtime Family	Satcom C3 Tr 16	347
		HD not in North Country			1356	8	8	N/A	Showtime HDTV	Satcom C3 Tr 16	392
7A QUAD ASI SLOT 7 PORT 2	QAM17	633 / 501 MHz	92 / 70	256	1208	4	1	1	VH1 Classic	Satcom C3 Tr 15	144
	11				1209	8	2	2	Nick GAS	Satcom C3 Tr 15	175
	Rmux ad	172.16.4.224			1210	10	3	3	Nick Too	Satcom C3 Tr 15	174
					1211	1	4	4	International Channel	Galaxy 11 Tr 24	139
					1214	5	8	8	Boomerang	Galaxy 1R Tr 15	178
					1215	70	10	10	Do-It-Yourself	Telstar 7 Tr 14	138
					1216	80	9	9	Tech TV	Telstar 7 Tr 14	137
					1163	4	14	14	America's Store	G1T24 - BB3-4 - BB2-14	163
					1182	1	5	5	MTV2	C3T15	142
					1184	7	7	7	Noggin	C3T15	173
					1221	80	80	80	CNBC World	Telstar 7 Tr 14	136
	QAM18	747 / NA MHz	116	256	3103	1	4	N/A	MC Concerts - RTE	Satcom C4 Tr 5 BB8-1 - BB3-11	254
					9031	4	4	4	Weather Now	BB8-1 - BB3-11	10
					1065	8	8	8	Lifetime Real Women	BB8-3 - BB3-11	112
		Colgate only			1079	1	1	1	Univision	BB8-2 - BB3-11	
					1606	1	15	15	NBA / WNBA PPV 6	GE 1 Tr 14	466
					1607	2	10	10	NBA / WNBA PPV 7	GE 1 Tr 14	467
					1608	3	11	11	NBA / WNBA PPV 8	GE 1 Tr 14	468
					1609	4	12	12	NBA / WNBA PPV 9	GE 1 Tr 14	469
					1610	5	13	13	NBA / WNBA PPV 10	GE 1 Tr 14	470
					1611	6	14	14	NBA / WNBA PPV 11	GE 1 Tr 14	471
	QAM 19	693/NA MHz			2065	1	1	1	WCNY SD/HD1		850
					2066	2	2	2	UWCNY KIDS		851
					2067	3	3	3	WCNY YOU		852
					2068	4	4	4	WCNY HD		853
	QAM 20	687/NA MHz			1005	2	2	2	WSTM HD		863

* 33 foot limitation for SWIF connections

** Rate Mux feed not required if DHEI splitter used. Rate Mux channel could be used for expansion such as Showtime/TMC west coast feeds.

TIME WARNER CABLE -- SYRACUSE DIVISION

Statement of Qualifications

System Name: Carthage / Watertown

Employee Name:	<u>TIM AMES</u>	Title:	<u>FIELD ENGINEER</u>
System:	<u>CARTHAGE / WATERTOWN</u>		
Qualifications:	<u>CIE 1</u>		
	<u>TECH 1 TIME WARNER NATIONAL TRAINING CENTER</u>		
	<u>18 YEARS CATV EXPERIENCE</u>		
	<u>VARIOUS TIME WARNER CABLE COURSES</u>		

Employee Name:	<u>MARK FAVRET</u>	Title:	<u>HEADEND TECH</u>
System:	<u>CARTHAGE / WATERTOWN</u>		
Qualifications:	<u>NCTI INSTALLER COURSE</u>		
	<u>5 YEARS CATV EXPERIENCE</u>		
	<u>VARIOUS TIME WARNER TRAINING COURSES</u>		

Employee Name:	<u>DENIS RHUBART</u>	Title:	<u>MAINTENANCE TECH</u>
System:	<u>CARTHAGE / WATERTOWN</u>		
Qualifications:	<u>16 YEARS CATV EXPERIENCE</u>		
	<u>VARIOUS TIME WARNER TRAINING COURSES</u>		

TIME WARNER CABLE -- SYRACUSE DIVISION

Statement of Qualifications

System Name: Carthage / Watertown

Employee Name:	<u>CARL CULBERTSON</u>	Title:	<u>SERVICE TECH</u>
System:	<u>CARTHAGE / WATERTOWN</u>		
Qualifications:	<u>NCTI INSTALLER COURSE</u>		
	<u>9 YEARS CATV EXPERIENCE</u>		
	<u>VARIOUS TIME WARNER TRAINING COURSES</u>		

Employee Name:	<u>TOM GARRETT</u>	Title:	<u>SERVICE TECH</u>
System:	<u>CARTHAGE / WATERTOWN</u>		
Qualifications:	<u>1 YEAR CATV EXPERIENCE</u>		

Employee Name:	<u></u>	Title:	<u></u>
System:	<u></u>		
Qualifications:	<u></u>		
	<u></u>		
	<u></u>		
	<u></u>		

TIME WARNER CABLE -- SYRACUSE DIVISION

Test Equipment Listings

System Name: Carthage / Watertown

Date: January 6, 2003

[illegible]

TIME WARNER CABLE -- SYRACUSE DIVISION

Terminal Isolation Test

System Name:

Carthage / Watertown

Date:

January 6, 2003

The terminal isolation provided to each subscriber terminal shall not be less than 18 decibels. In lieu of periodic testing, the cable operator may use specifications provided by the manufacturer for the terminal isolation equipment to meet this standard.

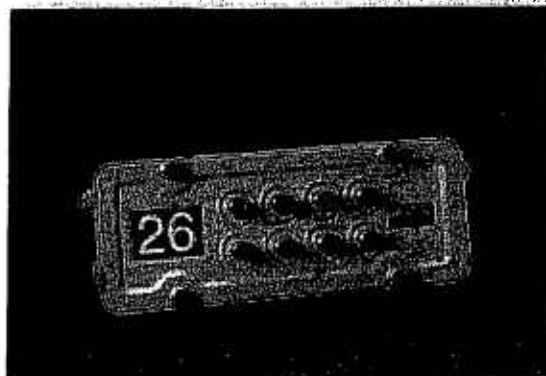
Instructions:

Attach a copy of the manufacturer's specifications covering all directional taps used in the system. The specification sheet must show the minimum tap-to-tap isolation. In lieu of a specification sheet, attach a letter from the manufacturer(s) certifying that the directional taps used in the system do exhibit a minimum tap-to-tap isolation of 18dB.

Multimedia Stretch™ Taps

Description

Scientific-Atlanta's Multimedia Stretch™ Tap is designed to support the delivery of advanced applications and services in a cost-effective platform. In addition to providing high quality RF performance specifications that are essential to the reliable transmission of data and digital video services, the Multimedia Stretch Tap includes the capability to house other performance-enhancing options. As an example, we have developed and field-tested a version of the plug-in directional coupler that cost-effectively balances reverse path signals resulting in a marked performance improvement in this challenging portion of your networks. Recently completed is an addressable version of the Multimedia Stretch Tap faceplate that introduces significant operating cost savings and new revenue-generating opportunities.



During the system upgrades, operators are challenged to quickly install new equipment while minimizing the impact on customers. Splicing taps is a time-consuming process complicated by a widened gap in the feeder cabling. Scientific-Atlanta's Multimedia Stretch Tap features a nine-inch housing that fills this gap—without using costly or performance reducing extension connectors—providing operators with the fastest way to restore service and complete upgrade efforts.

Features

- Patent-pending Connection-Beam AC/RF bypass switch, providing interruption-free service to downstream customers during faceplate removal
- Faceplate-confined circuitry isolates and simplifies maintenance efforts
- Per-port power activation and protection, maximizing cost and customer service effectiveness
- Nine-inch housing, simplifying system upgrades
- Faceplate reversibility, eliminating costly re-splicing
- Plug-in directional coupler, enabling field modification without costly resplicing
- Available in 2-, 4-, and 8-way versions
- Compatible with aerial or pedestal mounting
- Available space for future enhancements
- Durable powder paint coating for superior environmental protection

Multimedia Stretch Tap

The Multimedia Stretch Tap also provides an important level of network flexibility by enabling reversibility. As operators expand the fiber optic portion of their broadband networks, the result is often a reversal of the feeder signal flow. By simply changing the orientation of the plug-in directional coupler module, technicians can avoid time consuming and expensive resplicing of the cable.

The plug-in directional coupler module further adds to the flexibility of the tap, and helps to control inventory expense. By removing and replacing the on-board device, operators are able to modify tap values—again without costly resplicing.

Most importantly, Scientific-Atlanta's Multimedia Stretch Tap is designed for the future. Our engineers have maximized available space in the device to allow for adding future advanced features.

Specifications

Dimensions

2-, 4-, 8-way 3.5 in. H x 9 in. W x 3.5 in. D
88.9 mm H x 228.6 mm W x 88.9 mm D

Mechanical

- AL360T housing with powder paint coating and aluminum end plugs for environmental protection
- Sealed and swaged extended F-ports for enhanced resistance to moisture ingress
- Nickel-plated brass F-ports to ensure a corrosion-resistant drop interface
- Versatile housing design permits aerial, pedestal, or MDU mounting schemes
- Operating temperature from -40°C to $+60^{\circ}\text{C}$
- EMI shielding minimum 100 dB
- Pressure tested at 10 psi for 60 seconds under water.

Electrical Specifications

- Thru Continuous current 12 amps – 60/90 V AC
- Current limiting 250 mA @ 60°C , per drop
- Surge Resistance 1 kV
- Impedance 75 ohm
- Thru Hum Modulation 70 dB average @ 10 Amps
65 dB average @ 12 Amps
- Tap Port Hum Modulation 65 dB average

Standards Compliance

Scientific-Atlanta's Multimedia Stretch Taps meet or exceed the following industry standards:

Mechanical

- SCTE IPS-SP-400 – F-port interface specification
- SCTE IPS-SP-420 – entry port interface specification

Emissions

- FCC – Part 76, Subpart K
- EN 50083-2

Environmental

- ASTM G 53 – weathering specification
- ASTM B 117 – salt spray specification
- ASTM D 3170 – chip resistance specification
- ASTM G 21 – fungus growth rate of zero
- EN 50083-1

Specifications and product availability are subject to change.

AC/RF Bypass Switch Performance

System Open Circuit Time 0 ms
Contact Resistance 10 mOhms max
Current and voltage Carrying 12 A, 60/90 V AC
RF Frequency Range 5 to 1000 MHz
Operating Temperature -40°C to $+60^{\circ}\text{C}$

	5 MHz	550 MHz	750 MHz	1 GHz
Short Circuited Insertion Loss (dB)	0.1 Max 0.05 Mean	0.4 Max 0.3 Mean	0.5 Max 0.4 Mean	0.7 Max 0.6 Mean
Short Circuited Return Loss (dB)	40 Max 53 Mean	16 Max 18 Mean	16 Max 17 Mean	14 Max 15 Mean

Multimedia Stretch Tap

2-Way

	Freq.	Tap Value																	
		4 dB		8 dB		11 dB		14 dB		17 dB		20 dB		23 dB		26 dB		29 dB	
	MHz	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max
Insertion Loss (dB)	5	-	-	3.45	3.6	1.91	2.2	1.16	1.5	0.85	1.2	0.76	1.0	0.76	1.0	0.76	1.0	0.76	1.0
	40	-	-	3.18	3.6	1.47	-	0.87	1.2	0.80	1.0	0.49	1.0	0.50	1.0	0.50	1.0	0.50	1.0
	50	-	-	3.20	3.6	1.47	-	0.87	1.2	0.81	1.0	0.49	1.0	0.49	1.0	0.49	1.0	0.49	1.0
	450	-	-	4.13	4.2	2.29	2.7	1.64	1.9	1.39	1.7	1.19	1.4	1.22	1.5	1.22	1.4	1.22	1.5
	550	-	-	4.00	4.2	2.36	2.8	1.73	2.0	1.49	1.8	1.26	1.5	1.30	1.6	1.30	1.6	1.30	1.6
	750	-	-	3.69	4.0	2.40	2.8	1.82	2.2	1.60	2.0	1.34	1.6	1.38	1.8	1.38	1.8	1.38	1.8
	870	-	-	3.97	4.2	2.55	3.0	1.97	2.4	1.78	2.2	1.43	1.8	1.46	2.0	1.46	2.0	1.46	2.0
	1000	-	-	4.67	5.1	2.86	3.4	1.99	2.2	1.78	2.2	1.38	1.6	1.35	1.8	1.35	1.8	1.35	1.8
Tap Loss (dB) (Max tolerance ±1 dB)	5	4.98	5.0	7.76	8.0	11.39	12.0	13.79	15.0	16.68	18.0	19.87	21.0	22.71	24.0	25.87	27.0	29.27	30.0
	40	4.31	5.0	7.40	8.0	11.45	12.0	13.84	15.0	16.48	18.0	19.89	21.0	22.80	24.0	25.65	27.0	28.92	30.0
	50	4.10	5.0	7.40	8.0	11.44	12.0	13.82	15.0	16.43	18.0	19.66	21.0	22.58	24.0	25.64	27.0	28.90	30.0
	450	4.79	5.0	7.95	8.0	11.31	12.0	13.88	15.0	16.74	18.0	19.51	21.0	22.18	24.0	25.27	27.0	28.29	30.0
	550	4.44	5.0	8.10	8.0	11.24	12.0	13.83	15.0	16.84	18.0	19.31	21.0	22.06	24.0	25.29	27.0	28.20	30.0
	750	4.55	5.0	8.40	9.0	11.50	12.0	13.86	15.0	16.94	18.0	19.51	21.0	22.50	24.0	26.01	27.0	28.74	30.0
	870	4.87	5.0	8.48	9.0	11.69	12.0	13.92	15.0	17.21	18.0	19.87	21.0	22.90	24.0	26.55	27.0	29.23	30.0
	1000	4.97	5.0	8.56	9.0	11.17	12.0	13.67	15.0	16.39	18.0	19.56	21.0	22.65	24.0	26.37	27.0	28.96	30.0
Return Loss (dB, min)	5	15		14		12		13		14		14		14		14		14	
	10	14		15		15		15		15		15		15		15		15	
	50	15		15		15		15		15		15		15		15		15	
	750	15		15		15		15		15		15		15		15		15	
	870	15		15		15		15		15		15		15		15		15	
	1000	15		14		14		14		15		15		15		15		15	
Tap-to-Tap	5	18		18		18		18		18		18		18		18		18	
Isolation (dB, min)	750	18		18		18		18		18		18		18		18		18	
	1000	18		18		18		18		18		18		18		18		18	
Out-to-Tap Isolation	5	-		18		20		20		22		25		25		35		35	
	750	-		18		20		22		22		25		25		35		35	
	1000	-		18		20		22		22		25		25		35		35	

The Multimedia Stretch Tap consists of a housing and faceplate assemblies and a plug-in directional coupler module. Part numbers are listed below for complete taps as well as for the major components.

Product	Model Number	Part Number	Description
Complete Tap Assembly	SAT ST2-4	562732	Multimedia Stretch Tap 2-Way 4 dB
	SAT ST2-8	562733	Multimedia Stretch Tap 2-Way 8 dB
	SAT ST2-11	562734	Multimedia Stretch Tap 2-Way 11 dB
	SAT ST2-14	562735	Multimedia Stretch Tap 2-Way 14 dB
	SAT ST2-17	562736	Multimedia Stretch Tap 2-Way 17 dB
	SAT ST2-20	562737	Multimedia Stretch Tap 2-Way 20 dB
	SAT ST2-23	562738	Multimedia Stretch Tap 2-Way 23 dB
	SAT ST2-26	562739	Multimedia Stretch Tap 2-Way 26 dB
	SAT ST2-29	562740	Multimedia Stretch Tap 2-Way 29 dB
Faceplate Assembly	SAT STF-2	563542	Multimedia Stretch Tap 2-Way Faceplate Assembly
Directional Coupler Module	SAT STM2-0	543487	Multimedia Stretch Tap Module 0 dB
	SAT STM2-4	562108	Multimedia Stretch Tap Module 4 dB
	SAT STM2-7	562109	Multimedia Stretch Tap Module 7 dB
	SAT STM2-10	562110	Multimedia Stretch Tap Module 10 dB
	SAT STM2-13	562111	Multimedia Stretch Tap Module 13 dB
	SAT STM2-16	562112	Multimedia Stretch Tap Module 16 dB
	SAT STM2-19	562113	Multimedia Stretch Tap Module 19 dB
	SAT STM2-22	562114	Multimedia Stretch Tap Module 22 dB
	SAT STM2-25	562115	Multimedia Stretch Tap Module 25 dB

Multimedia Stretch Tap

4-Way

	Freq.	Tap Value															
		8 dB		11 dB		14 dB		17 dB		20 dB		23 dB		26 dB		29 dB	
	MHz	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max
Insertion Loss (dB)	5	-		3.45	3.6	1.91	2.2	1.16	1.5	0.85	1.2	0.78	1.1	0.76	1.1	0.76	1.1
	40	-		3.18	3.5	1.47	1.7	0.87	1.2	0.60	1.0	0.49	0.8	0.50	0.8	0.50	1.0
	50	-		3.20	3.5	1.47	1.7	0.87	1.2	0.61	1.1	0.49	1.0	0.49	1.0	0.49	1.0
	450	-		4.13	4.5	2.29	2.5	1.64	1.9	1.39	1.8	1.19	1.4	1.22	1.4	1.22	1.4
	550	-		4.00	4.5	2.36	2.8	1.73	2.0	1.49	1.8	1.26	1.6	1.30	1.6	1.30	1.6
	750	-		3.69	4.0	2.40	2.8	1.82	2.2	1.60	2.0	1.34	1.6	1.38	1.6	1.38	1.6
	870	-		3.97	4.5	2.55	3.0	1.97	2.4	1.78	2.0	1.43	1.8	1.46	1.8	1.46	1.8
	1000	-		4.67	5.0	2.86	3.2	1.99	2.4	1.78	2.0	1.36	1.8	1.35	1.8	1.35	1.9
Tap Loss (dB) (Max tolerance ±1 dB)	5	8.15	9.0	10.86	12.0	14.18	16.0	16.67	18.0	19.95	22.0	22.89	24.5	25.70	26.5	28.70	29.5
	40	7.58	8.0	10.58	12.0	14.57	16.0	17.03	18.0	19.67	21.0	23.05	24.5	25.82	26.5	28.81	29.5
	50	7.38	8.0	10.58	12.0	14.55	16.0	17.02	18.0	19.63	21.0	23.03	24.5	25.80	26.5	28.80	29.5
	450	7.88	9.0	11.11	12.0	14.51	16.0	16.75	18.0	20.00	21.0	22.77	24.5	25.57	26.5	28.62	29.5
	550	7.56	8.0	11.38	12.0	14.43	16.0	16.72	18.0	20.27	21.0	22.59	24.5	25.52	26.5	28.61	29.5
	750	7.74	9.0	11.72	12.5	14.80	16.0	16.76	18.0	20.24	21.0	22.85	24.5	25.67	26.5	29.12	29.5
	870	8.12	9.5	12.27	13.0	15.04	16.5	17.15	18.5	20.69	22.0	23.37	24.0	26.21	27.0	29.66	30.0
	1000	8.73	9.5	12.44	13.5	15.18	16.5	17.11	18.5	20.50	21.0	23.80	24.0	26.31	27.0	30.04	30.5
Return Loss (dB, min)	5	14		14		12		14		14		14		14		14	
	10	14		15		14		15		15		15		15		15	
	50	15		15		15		15		15		15		15		15	
	750	14		15		15		15		15		15		15		15	
	870	15		15		15		15		15		15		15		15	
	1000	15		14		15		14		14		14		15		14	
Tap-to-Tap Isolation (dB,min)	5	18		18		18		18		18		18		18		18	
	750	18		18		18		18		18		18		18		18	
	1000	18		18		18		18		18		18		18		18	
Out-to-Tap Isolation	5	-		18		20		22		25		25		35		35	
	750	-		18		20		22		25		25		35		35	
	1000	-		18		20		22		25		25		35		35	

The Multimedia Stretch Tap consists of a housing and faceplate assemblies and a plug-in directional coupler module. Part numbers are listed below for complete taps as well as for the major components.

Product	Model Number	Part Number	Description
Complete Tap Assembly	SAT ST4-8	562742	Multimedia Stretch Tap 4-Way 8 dB
	SAT ST4-11	562743	Multimedia Stretch Tap 4-Way 11 dB
	SAT ST4-14	562744	Multimedia Stretch Tap 4-Way 14 dB
	SAT ST4-17	562745	Multimedia Stretch Tap 4-Way 17 dB
	SAT ST4-20	562746	Multimedia Stretch Tap 4-Way 20 dB
	SAT ST4-23	562747	Multimedia Stretch Tap 4-Way 23 dB
	SAT ST4-26	562748	Multimedia Stretch Tap 4-Way 26 dB
	SAT ST4-29	562749	Multimedia Stretch Tap 4-Way 29 dB
Faceplate Assembly	SAT STF-4	563543	Multimedia Stretch Tap 4-Way Faceplate Assembly
Directional Coupler Module	SAT STM-0	543487	Multimedia Stretch Tap Module 0 dB
	SAT STM-4	562108	Multimedia Stretch Tap Module 4 dB
	SAT STM-7	562109	Multimedia Stretch Tap Module 7 dB
	SAT STM-10	562110	Multimedia Stretch Tap Module 10 dB
	SAT STM-13	562111	Multimedia Stretch Tap Module 13 dB
	SAT STM-16	562112	Multimedia Stretch Tap Module 16 dB
	SAT STM-19	562113	Multimedia Stretch Tap Module 19 dB
	SAT STM-22	562114	Multimedia Stretch Tap Module 22 dB
	SAT STM-25	562115	Multimedia Stretch Tap Module 25 dB

Multimedia Stretch Tap

8-Way

	Freq.	Tap Value													
		11 dB		14 dB		17 dB		20 dB		23 dB		26 dB		29dB	
	MHz	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max	Mean	Max
Insertion Loss (dB)	5	-	-	3.45	4.5	1.91	2.2	1.16	1.5	0.85	1.2	0.76	1.1	0.76	1.1
	40	-	-	3.18	3.5	1.47	1.7	0.87	1.2	0.60	1.0	0.49	1.1	0.50	1.0
	50	-	-	3.20	3.5	1.47	1.7	0.87	1.2	0.61	1.0	0.49	1.0	0.49	1.0
	450	-	-	4.13	4.4	2.29	2.7	1.84	2.1	1.39	1.8	1.19	1.7	1.22	1.7
	550	-	-	4.00	4.2	2.36	2.8	1.73	2.0	1.49	1.9	1.26	1.6	1.30	1.6
	750	-	-	3.69	4.1	2.40	3.0	1.82	2.2	1.80	2.0	1.34	1.8	1.38	1.9
	870	-	-	3.97	4.7	2.55	3.0	1.97	2.3	1.78	2.0	1.43	1.8	1.46	1.8
	1000	-	-	4.67	5.1	2.86	3.4	1.99	2.4	1.78	2.2	1.36	1.8	1.35	1.8
Tap Loss (dB) (Max tolerance ±1 dB)	5	11.34	12.0	14.50	15.0	17.71	19.0	20.21	21.0	23.43	24.0	26.13	27.0	28.93	30.5
	40	10.84	12.0	13.91	15.5	17.82	19.0	20.34	21.0	22.79	24.0	26.18	27.0	29.07	30.5
	50	10.62	12.0	13.90	15.5	17.79	19.0	20.31	21.0	22.80	24.0	26.20	27.0	29.06	30.5
	450	11.07	12.0	14.56	15.5	17.77	19.0	20.16	21.0	23.28	24.0	25.95	27.0	28.87	30.5
	550	11.17	12.0	14.85	15.5	17.95	19.0	20.24	21.0	23.53	24.0	25.96	27.0	28.84	30.5
	750	11.33	12.5	15.55	16.5	18.52	19.0	20.44	21.0	23.94	24.0	26.28	27.0	29.25	30.5
	870	11.87	13.0	16.18	17.0	18.96	20.0	20.92	22.0	24.53	25.0	26.78	28.0	30.08	31.0
	1000	12.35	13.5	16.34	17.5	19.05	20.0	21.08	22.0	24.48	25.0	27.06	28.0	30.48	31.5
Return Loss (dB, min)	5	14		14		12		14		14		14		14	
	10	14		15		15		15		15		15		15	
	50	15		15		15		15		15		15		15	
	750	14		15		15		15		15		15		15	
	870	15		15		14		15		15		15		15	
	1000	15		14		14		14		14		14		14	
Tap-to-Tap Isolation (dB,min)	5	18		18		18		18		18		18		18	
	750	18		18		18		18		18		18		18	
	1000	18		18		18		18		18		18		18	
Out-to-Tap Isolation	5	-		20		22		25		25		35		35	
	750	-		20		22		25		25		35		35	
	1000	-		20		22		25		25		35		35	

The Multimedia Stretch Tap consists of a housing and faceplate assemblies and a plug-in directional coupler module. Part numbers are listed below for complete taps as well as for the major components.

Product	Model Number	Part Number	Description
Complete Tap Assembly	SAT ST8-11	562751	Multimedia Stretch Tap 8-Way 11 dB
	SAT ST8-14	562752	Multimedia Stretch Tap 8-Way 14 dB
	SAT ST8-17	562753	Multimedia Stretch Tap 8-Way 17 dB
	SAT ST8-20	562754	Multimedia Stretch Tap 8-Way 20 dB
	SAT ST8-23	562755	Multimedia Stretch Tap 8-Way 23 dB
	SAT ST8-26	562756	Multimedia Stretch Tap 8-Way 26 dB
	SAT ST8-29	562757	Multimedia Stretch Tap 8-Way 29 dB
Faceplate Assembly	SAT STF-8	563544	Multimedia Stretch Tap 8-Way Faceplate Assembly
Directional coupler Module	SAT STM-0	543487	Multimedia Stretch Tap Module 0 dB
	SAT STM-4	562108	Multimedia Stretch Tap Module 4 dB
	SAT STM-7	562109	Multimedia Stretch Tap Module 7 dB
	SAT STM-10	562110	Multimedia Stretch Tap Module 10 dB
	SAT STM-13	562111	Multimedia Stretch Tap Module 13 dB
	SAT STM-16	562112	Multimedia Stretch Tap Module 16 dB
	SAT STM-19	562113	Multimedia Stretch Tap Module 19 dB
	SAT STM-22	562114	Multimedia Stretch Tap Module 22 dB
	SAT STM-25	562115	Multimedia Stretch Tap Module 25 dB

Other Stretch Tap Accessories

- DC/EQ Plug-in modules
- Addressable Multimedia Stretch Taps
- Multimedia Stretch Taps with Technician Access



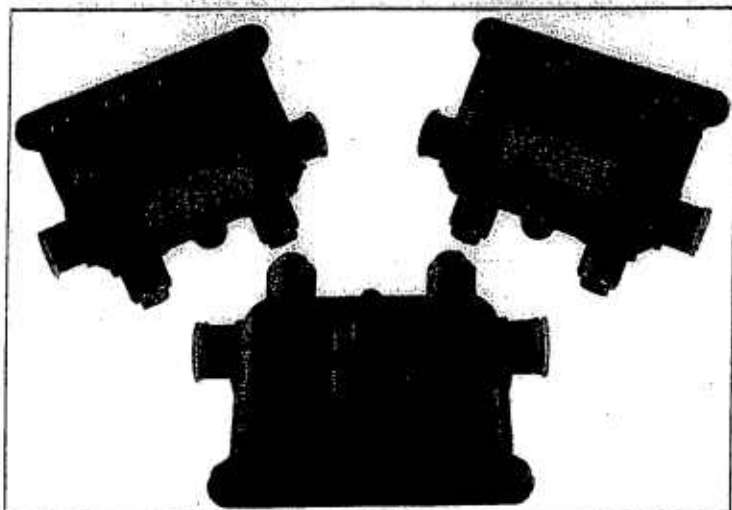
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Multi-Taps

9000-L-PBT Series



The 9000-L Power Bypass Tap series is a 1 GHz multi-tap device that taps off part of the input RF, allowing the remaining signal to pass through. The tapped-off signal is divided into multiple outputs.

- Improved power passing circuitry handles 12 Amps continuous current.
- Improved low-frequency performance (5 MHz) increases return bandwidth.
- Increased hard-line port lengths improve heat shrink/weather seal.
- Continuous RF signal and AC power bypass circuit eliminates service interruptions when faceplates are removed.
- A 90° rotating seizure mechanism makes installation easy.
- Backward compatible housings ease field upgrades.

A multi-tap combines a directional coupler and splitters to produce a specific value or signal loss from the multi-tap's input to its tap ports.

Philips 9000-L-PBT series 1 GHz multi-taps are available in two-way, four-way, and eight-way models that offer two-, four-, and eight-tap ports, respectively. It is a compact tap which fits easily into a 6-inch pedestal.

The aluminum die-cast housing is pressure tested to 10 psi and coated with a protective finish, providing excellent corrosion resistance. Rubber boots inside the brass SCTE F-ports provide water resistance. A single alloy at contact points eliminates the galvanic couple and corrosion that accompanies aluminum-to-brass connections. By connecting the brass

SCTE F-port to a brass F-connector, you can eliminate a weak link in your network.

All F-ports have a capacitor that blocks hum modulation which can originate from the subscriber home. This capacitor provides additional protection from transients traveling on subscriber drop cables.

The power bypass assembly, located in the housing, prevents interruptions in power and RF service when faceplates are removed. The 12-Amp current rating (for assembly) meets future system requirements.

The 9000-L-PBT series multi-taps all share these standard features:

- 15-Amp current handling capability;
- 1 GHz bandwidth capacity;

- brass SCTE F-ports with drip lips and rubber boots;
- environmental coating, which provides excellent corrosion resistance;
- interchangeable 9000-L-PBT faceplates;
- strip gauges and heat-shrink ridges for easy installation;
- 2.5 kV surge resistance, which meets ANSI/IEEE C62.41-1991, Class B, 2500 V surge;
- network power capacity of 90 VDC and VAC up to 60 Hz;
- easy upgrade to telephony with F-port powered 9000T-FP Series or twisted pair 9000T-TP Series faceplates; and
- faceplates that fit in 8000 series housings for easy upgrade to 1 GHz.



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Multi-Taps

Worst Case Specifications

9800-L-PBT 8-Way Series

	9812	9815	9818	9821	9824	9827	9830	Units
Tap Value	12.0	15.5	18.0	21.0	24.0	27.0	30.0	dB
Bandwidth	5 to 1000							MHz
Color Code	Gold	White	Blue	Green	Purple	Yellow	Red	
Tolerance								
5 to 10 MHz	2.0	2.5	2.0	2.5	2.5	2.5	2.5	± dB
10 to 20 MHz	1.7	2.5	1.5	2.5	2.5	2.5	2.5	± dB
20 to 900 MHz	1.8	2.0	1.5	1.5	1.5	1.5	1.5	± dB
900 to 1000 MHz	2.3	2.5	1.9	2.4	2.1	2.1	2.1	± dB
Insertion Loss (in-out, maximum)								
5 MHz	—	3.8	2.2	1.4	1.0	0.9	0.8	dB
10 MHz	—	3.8	2.1	1.2	0.8	0.8	0.7	dB
30 MHz	—	3.5	2.5	1.0	0.7	0.7	0.7	dB
50 MHz	—	3.5	1.9	1.0	0.7	0.7	0.7	dB
100 MHz	—	4.0	1.8	1.2	0.7	0.7	0.7	dB
330 MHz	—	4.2	2.1	1.3	0.9	0.8	0.8	dB
450 MHz	—	4.4	2.3	1.3	0.9	0.9	0.9	dB
550 MHz	—	4.5	2.4	1.4	1.1	1.0	0.9	dB
600 MHz	—	4.7	2.6	1.4	1.1	1.1	0.9	dB
750 MHz	—	5.1	2.8	1.6	1.3	1.2	1.2	dB
862 MHz	—	5.3	3.2	1.8	1.4	1.4	1.4	dB
1000 MHz	—	5.4	3.5	2.2	1.8	1.6	1.4	dB
Flatness (maximum)								
10 to 1000 MHz	0.35	0.35	0.35	0.35	0.35	0.35	0.35	± dB
Tap-to-Out Isolation (minimum)								
5 to 6 MHz	—	21	21	24	27	30	33	dB
6 to 10 MHz	—	21	22	26	29	32	34	dB
10 to 30 MHz	—	21	24	27	30	34	37	dB
30 to 750 MHz	—	27	30	32	34	38	40	dB
750 to 1000 MHz	—	25	28	30	33	34	36	dB
Tap-to-Tap Isolation (minimum)								
5 to 10 MHz	15	15	15	15	15	15	15	dB
10 to 30 MHz	20	20	20	20	20	20	20	dB
30 to 450 MHz	25	25	25	25	25	25	25	dB
450 to 750 MHz	23	23	23	23	23	23	23	dB
750 to 1000 MHz	20	20	20	20	20	20	20	dB

continued

Specifications are subject to change without notice.



Multi-Taps

9800-L-PBT 8-Way Series

	9812	9815	9818	9821	9824	9827	9830	Units
Return Loss In and Out (minimum)								
5 to 10 MHz	15	13	15	15	15	15	15	dB
10 to 30 MHz	17	18	17	17	17	17	17	dB
30 to 600 MHz	18	18	18	18	18	18	18	dB
600 to 900 MHz	17	17	17	17	17	17	17	dB
900 to 1000 MHz	15	15	15	15	15	15	15	dB
Return Loss Tap (minimum)								
5 to 10 MHz	15	15	15	15	15	15	15	dB
10 to 30 MHz	15	15	15	15	15	15	15	dB
30 to 600 MHz	18	18	18	18	18	18	18	dB
600 to 900 MHz	16	16	16	16	16	16	16	dB
900 to 1000 MHz	15	15	15	15	15	15	15	dB
Hum Modulation @ 12 Amps (maximum)								
5 to 10 MHz	-	-58	-58	-58	-58	-58	-58	dB
10 to 50 MHz	-	-64	-64	-64	-64	-64	-64	dB
50 to 600 MHz	-	-70	-70	-70	-70	-70	-70	dB
600 to 750 MHz	-	-64	-64	-64	-64	-64	-64	dB
750 to 1000 MHz	-	-60	-60	-60	-60	-60	-60	dB
RFI Isolation								
5 to 600 MHz	-100	-100	-100	-100	-100	-100	-100	dB
600 to 1000 MHz	-90	-90	-90	-90	-90	-90	-90	dB
Continuous Current (maximum)	0	12	12	12	12	12	12	Amps
Voltage Passing Capacity (maximum) DC, AC up to 60 Hz	90	90	90	90	90	90	90	V
Surge Rating	ANSI/IEEE C62.41-1991, Class B, 2500 V							

Specifications are subject to change without notice.



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Multi-Taps

Worst Case Specifications

9400-L-PBT 4-Way Series

	9408	9411	9414	9417	9420	9423	9426	9429	9432	9435	Units
Tap Value	8.0	11.5	14.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0	dB
Bandwidth	5 to 1000										MHz
Color Code	Orange	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	Brown	
Tolerance											
5 to 10 MHz	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	± dB
10 to 20 MHz	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	± dB
20 to 900 MHz	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	± dB
900 to 1000 MHz	1.5	2.5	2.3	2.2	2.0	1.9	1.7	1.6	1.8	2.0	± dB
Insertion Loss (in-out, maximum)											
5 MHz	—	3.8	2.1	1.5	1.1	1.1	0.8	0.8	0.8	0.8	dB
10 MHz	—	3.6	2.0	1.4	1.0	1.0	0.7	0.7	0.7	0.7	dB
30 MHz	—	3.5	1.8	1.1	0.7	0.7	0.5	0.5	0.5	0.5	dB
50 MHz	—	3.5	1.8	1.1	0.7	0.7	0.5	0.5	0.5	0.5	dB
100 MHz	—	4.0	1.8	1.1	0.8	0.7	0.5	0.5	0.5	0.5	dB
330 MHz	—	4.3	2.3	1.4	1.0	0.9	0.8	0.8	0.8	0.8	dB
450 MHz	—	4.3	2.3	1.4	1.0	0.9	0.8	0.8	0.8	0.8	dB
550 MHz	—	4.4	2.4	1.5	1.1	1.0	0.9	0.9	0.9	0.9	dB
600 MHz	—	4.7	2.5	1.5	1.1	1.0	0.9	0.9	0.9	0.9	dB
750 MHz	—	5.1	2.7	1.6	1.2	1.2	1.0	1.0	1.0	1.0	dB
862 MHz	—	5.2	3.0	1.8	1.4	1.4	1.1	1.1	1.1	1.1	dB
1000 MHz	—	5.4	3.3	2.1	1.6	1.6	1.4	1.4	1.4	1.4	dB
Flatness (maximum)											
10 to 1000 MHz	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	± dB
Tap-to-Out Isolation (minimum)											
5 to 6 MHz	—	17	19	21	25	29	30	32	35	38	dB
6 to 10 MHz	—	17	20	21	25	29	32	32	36	41	dB
10 to 30 MHz	—	20	21	22	27	30	34	34	36	42	dB
30 to 750 MHz	—	24	27	30	33	36	38	40	42	44	dB
750 to 1000 MHz	—	22	25	28	31	34	36	38	40	42	dB
Tap-to-Tap Isolation (minimum)											
5 to 10 MHz	15	15	15	15	15	15	15	15	15	15	dB
10 to 30 MHz	20	20	20	20	20	20	20	20	20	20	dB
30 to 450 MHz	25	25	25	25	25	25	25	25	25	25	dB
450 to 750 MHz	23	23	23	23	23	23	23	23	23	23	dB
750 to 1000 MHz	20	20	20	20	20	20	20	20	20	20	dB

continued

Specifications are subject to change without notice.



Multi-Taps

9400-L-PBT 4-Way Series

	9408	9411	9414	9417	9420	9423	9426	9429	9432	9435	Units
Return Loss In and Out (minimum)											
5 to 10 MHz	15	13	15	15	15	15	15	15	15	15	dB
10 to 30 MHz	17	16	17	17	17	17	17	17	17	17	dB
30 to 600 MHz	18	18	18	18	18	18	18	18	18	18	dB
600 to 900 MHz	17	17	17	17	17	17	17	17	17	17	dB
900 to 1000 MHz	15	15	15	15	15	15	15	15	15	15	dB
Return Loss Tap (minimum)											
5 to 10 MHz	15	15	15	15	15	15	15	15	15	15	dB
10 to 30 MHz	16	16	16	16	16	16	16	16	16	16	dB
30 to 600 MHz	18	18	18	18	18	18	18	18	18	18	dB
600 to 900 MHz	16	16	16	16	16	16	16	16	16	16	dB
900 to 1000 MHz	15	15	15	15	15	15	15	15	15	15	dB
Hum Modulation @ 12 Amps, 60° C (maximum)											
5 to 10 MHz	-	-58	-58	-58	-58	-58	-58	-58	-58	-58	dB
10 to 50 MHz	-	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
50 to 600 MHz	-	-70	-70	-70	-70	-70	-70	-70	-70	-70	dB
600 to 750 MHz	-	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
750 to 1000 MHz	-	-60	-60	-60	-60	-60	-60	-60	-60	-60	dB
RFI Isolation											
5 to 600 MHz	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	dB
600 to 1000 MHz	-90	-90	-90	-90	-90	-90	-90	-90	-90	-90	dB
Continuous Current (maximum)	0	12	12	12	12	12	12	12	12	12	Amps
Voltage Passing Capacity (maximum) DC, AC up to 60 Hz	90	90	90	90	90	90	90	90	90	90	V
Surge Rating	ANSI/IEEE C62.41-1991, Class B, 2500 V										

Specifications are subject to change without notice.



PHILIPS

3 June 2002

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Multi-Taps

Worst Case Specifications

9200-L-PBT 2-Way Series

	9204	9208	9211	9214	9217	9220	9223	9226	9229	9232	Units
Tap Value	4.0	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	dB
Bandwidth	5 to 1000										MHz
Color Code	Black	Orange	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	
Tolerance											
5 to 10 MHz	2.0	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	± dB
10 to 20 MHz	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	± dB
20 to 900 MHz	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	± dB
900 to 1000 MHz	2.0	2.0	1.5	2.0	1.6	1.7	1.7	2.0	2.0	2.0	± dB
Insertion Loss (in-out, maximum)											
5 MHz	-	3.5	2.1	1.2	1.0	1.1	0.8	0.8	0.8	0.8	dB
10 MHz	-	3.4	2.0	1.0	0.9	1.0	0.6	0.6	0.6	0.6	dB
30 MHz	-	3.3	1.9	0.9	0.7	0.7	0.6	0.6	0.6	0.6	dB
50 MHz	-	3.3	1.8	0.9	0.7	0.7	0.6	0.6	0.6	0.6	dB
100 MHz	-	3.3	1.8	0.9	0.8	0.8	0.6	0.6	0.6	0.6	dB
330 MHz	-	3.8	2.0	1.1	1.0	0.9	0.7	0.7	0.7	0.7	dB
450 MHz	-	4.0	2.2	1.1	1.1	0.9	0.8	0.8	0.8	0.8	dB
550 MHz	-	4.2	2.3	1.2	1.1	1.0	0.9	0.9	0.9	0.9	dB
600 MHz	-	4.3	2.4	1.3	1.2	1.0	0.9	0.9	0.9	0.9	dB
750 MHz	-	4.7	2.6	1.4	1.3	1.2	1.0	1.0	1.0	1.0	dB
862 MHz	-	5.1	2.8	1.6	1.5	1.4	1.2	1.2	1.2	1.2	dB
1000 MHz	-	5.4	3.2	1.9	1.6	1.6	1.4	1.4	1.4	1.4	dB
Flatness (maximum)											
5 to 1000 MHz	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	± dB
Tap-to-Out Isolation (minimum)											
5 to 6 MHz	-	15	15	19	23	26	28	30	32	34	dB
6 to 10 MHz	-	15	15	19	23	28	30	33	34	36	dB
10 to 30 MHz	-	20	20	20	24	29	30	34	34	36	dB
30 to 750 MHz	-	22	24	26	30	33	36	38	40	42	dB
750 to 1000 MHz	-	20	22	25	28	31	34	36	38	40	dB
Tap-to-Tap Isolation (minimum)											
5 to 10 MHz	15	15	15	15	15	15	15	15	15	15	dB
10 to 30 MHz	20	19	20	20	20	20	20	20	20	20	dB
30 to 450 MHz	25	25	25	25	25	25	25	25	25	25	dB
450 to 750 MHz	23	23	23	23	23	23	23	23	23	23	dB
750 to 1000 MHz	20	20	20	20	20	20	20	20	20	20	dB

continued

Specifications are subject to change without notice.



9200-L-PBT 2-Way Series

	9204	9208	9211	9214	9217	9220	9223	9226	9229	9232	Units
Return Loss In and Out (minimum)											
5 to 10 MHz	15	14	15	15	15	15	15	15	15	15	dB
10 to 30 MHz	17	17	17	17	17	17	17	17	17	17	dB
30 to 600 MHz	18	18	18	18	18	18	18	18	18	18	dB
600 to 900 MHz	17	17	17	17	17	17	17	17	17	17	dB
900 to 1000 MHz	15	15	15	15	15	15	15	15	15	15	dB
Return Loss Tap (minimum)											
5 to 10 MHz	15	13	15	15	15	15	15	15	15	15	dB
10 to 30 MHz	16	16	16	16	16	16	16	16	16	16	dB
30 to 600 MHz	18	18	18	18	18	18	18	18	18	18	dB
600 to 900 MHz	16	16	16	16	16	16	16	16	16	16	dB
900 to 1000 MHz	15	15	15	15	15	15	15	15	15	15	dB
Hum Modulation @ 12 Amps, 60° C (maximum)											
5 to 10 MHz	-	-58	-58	-58	-58	-58	-58	-58	-58	-58	dB
10 to 50 MHz	-	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
50 to 600 MHz	-	-70	-70	-70	-70	-70	-70	-70	-70	-70	dB
600 to 750 MHz	-	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
750 to 1000 MHz	-	-60	-60	-60	-60	-60	-60	-60	-60	-60	dB
RFI Isolation											
5 to 600 MHz	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	dB
600 to 1000 MHz	-90	-90	-90	-90	-90	-90	-90	-90	-90	-90	dB
Continuous Current (maximum)	0	12	12	12	12	12	12	12	12	12	Amps
Voltage Passing Capacity (maximum) DC, AC up to 60 Hz	90	90	90	90	90	90	90	90	90	90	V
Surge Rating	ANSI/IEEE C62.41-1991, Class B, 2500 V										

Specifications are subject to change without notice.



TIME WARNER CABLE -- SYRACUSE DIVISION

Converter and Trap Specifications

System Name:

Carthage / Watertown

Date:

January 6, 2003

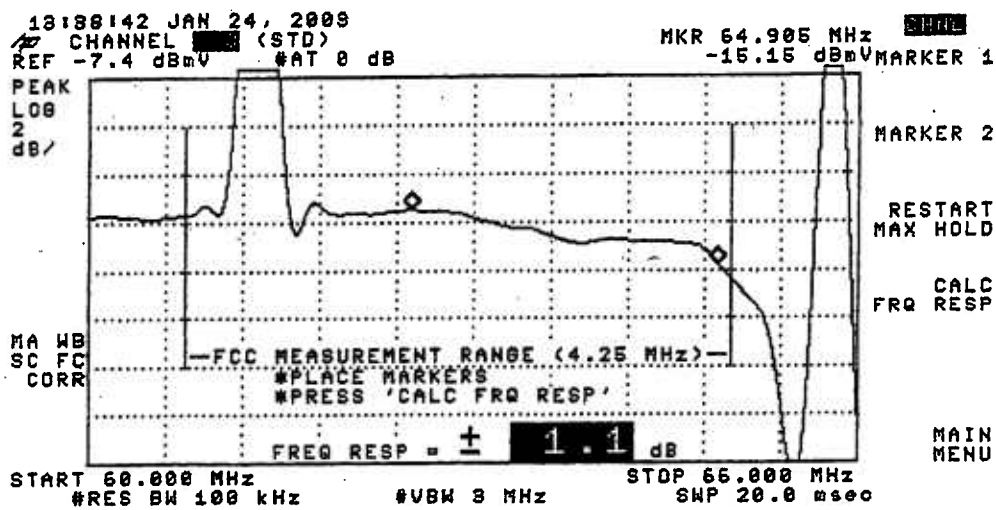
All testing is done at the end of a 100ft drop cable (RG-6) without a converter. Converter specification sheets are attached for "After Converter" numbers, if so desired.

Instructions:

Attach a copy of the manufacturer's specifications covering all converters used in the system. The specification sheet must show the converters carrier- to- noise (C/N) and distortion figures.

Attach a copy of the manufacturer's specifications covering all traps that are in use in the cable plant. This should include basic traps, individual channel traps, high pass filters, etc.

In Channel frequency response was done through Pioneer Converter. Model BA 6310. Serial number CH7MA9.



In Channel frequency response was done through Scientific Atlanta Converter. Model 8610X. Serial number FI756BCMW.

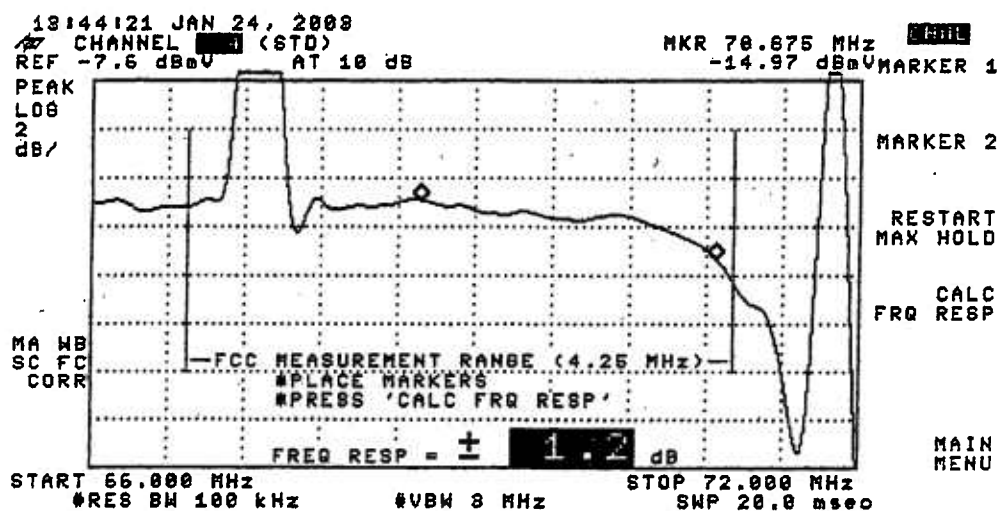


Table 1-2. Model 8550 Specification -continued

Parameter	Specification
Output channels	3 or 4
Flatness (over channel bandwidth)	± 2 dB
Gain	0 to 9 dB
Noise figure	13 dB, typical
Return loss	6 dB minimum on tuned channel
Output	12 dB minimum
Isolation input/output	60 dB
Spurious	
Input	-57 dBmV (up to 470 MHz)
Output	-57 dBmV
Frequency accuracy	± 100 kHz
Frequency stability	(0° - 40°) ± 100 kHz
Input voltage range	115 V ac $\pm 10\%$
Power consumption	20 watts maximum
Power supply surge protection	Yes
Distortion at +15 dBmV; 60 channel load flat input	
Second Order	-57 dB
Cross modulation	-57 dB
Composite triple beat	-57 dB
Input level	-7 to +20 dBmV
Mechanical	
Dimensions	10.44" x 8.0" x 2.54"
Weight	4.5 pounds
Keyboard type	16 position, X-Y matrix
Display type	LED, 0.5" x 0.26"

Series 8580 Addressable Home Terminal

SPECIFICATIONS

Environmental

Temperature

0°C to 45°C

Relative humidity

5% to 95%

Electrical

Input bandwidth

54 MHz to 550 MHz

Number of channels

82 with single cable

128 with optional dual cable

Output channel

3 or 4

Channel frequency response

±2 dB

Gain

8 dB, typical

Output level (meets FCC Part 15-H)

6.5 dBmV, typical

1.4 dBmV, max

noise figure

6.7 dB, typical

Return loss

Input

7 dB (54 MHz to 440 MHz) minimum on tuned channel

5 dB (440 MHz to 550 MHz) minimum on tuned channel

Output

1.1 dB, min

Station input/output

80 dB

Group response

Output

-37 dBmV (up to 570 MHz)

Linearity

-57 dBmV in channel

Frequency accuracy

0.01 MHz

Modulation

51%

Intermodulation

Typical

Protection

50 ohm gaps and transformer isolation

Protection shield to ground

Output -1.5 dBmV 75 ohm channel load

Input, second order -57 dB

17 dB 54 MHz to 440 MHz

15 dB 440 MHz to 550 MHz

Intermodulation -57 dB

Modulation triple beat -57 dB

Input level

-7 dBmV to +20 dBmV

Mechanical

Dimensions

9.2 in. L x 6.9 in. W x 2.1 in. H

Weight

3.3 lbs

Keyboard type

5 keys (front access)

Display type

LED, 2.3 in. L x 0.57 in. H

IPPV Module Specifications

Telephone Return IPPV Module (Optional)

Complies with FCC Part 68

Pinpoint equivalence

0.00

Interface to telephone line

RJ-11C standard telephone jack

Surge protection

Dual MOVs and Zener diodes

RF Return IPPV Module (Optional)

Frequency range

15.45 MHz to 17.75 MHz

Modulation rate

20 kbps

Modulation technique

BPSK

Maximum output power

-55 dBmV

ORDER INFORMATION

Predominate Configurations

- Model 8580-338 for channel 3 output, 108.2 MHz data carrier and no IPPV
- Model 8580-336 for channel 3 output, 106.2 MHz data carrier and no IPPV
- Model 8580-438 for channel 4 output, 108.2 MHz data carrier and no IPPV
- Model 8580-436 for channel 4 output, 106.2 MHz data carrier and no IPPV
- Model 8580-338-D for channel 3 output, 108.2 MHz data carrier, no IPPV, and dual cable A/B driver (external Dual Cable Switch must be ordered separately - see accessories)
- Model 8580-436-D for channel 4 output, 106.2 MHz data carrier, no IPPV, and dual cable A/B driver (external Dual Cable Switch must be ordered separately - see accessories)
- Model 8580-175 Remote Control

Lead times and product availability subject to change without notice.

Electronic America, Inc.

Atlanta, GA

1000 North 12th Street, Suite 100, Atlanta, GA 30309

Atlanta 7705 Peachtree Highway, Suite 100, Atlanta, GA 30309

Atlanta 1000 North 12th Street, Suite 100, Atlanta, GA 30309

Atlanta 1000 North 12th Street, Suite 100, Atlanta, GA 30309

Atlanta 1000 North 12th Street, Suite 100, Atlanta, GA 30309

Atlanta 1000 North 12th Street, Suite 100, Atlanta, GA 30309

Model 8600 Addressable Home Terminal with On-Screen Display

SPECIFICATIONS

Environmental

Temperature
0°C to 45°C
Relative humidity
5% to 95%

Electrical

Input bandwidth
54 MHz to 550 MHz
54 MHz to 750 MHz (optional)
Number of channels
82 with single cable
99 with optional dual cable
116 channels (750 MHz option)
Output channel downloadable
3 or 4
Output level
9.0 dBmV, typ
Noise figure
3.7 dB (including baseband circuitry)
Return loss
Input
8 dB
Output
12 dB
Frequency response
Output
-60 dBc in channel
Frequency accuracy
±100 kHz max
Frequency stability
±100 kHz max
Power
0.5 W to 125 W
Power consumption
2 W max
Protection

Spark gaps and transformer isolation

Inductor shunt to ground
on at -15 dBmV, 78 channel load/116 channel
load (750 MHz)
Input, second order
-60 dB
Modulation
-60 dB
Modulation to noise best
-60 dB max

Modulation to noise best

Modulation to noise best

Modulation to noise best

Modulation to noise best

Mechanical

Dimensions

9.2 in. L x 7.0 in. W x 2.4 in. H

Weight

3.6 lbs

Keyboard type

11 keys (front access)

Display type

LED, two digit/LED, four digit (750 MHz option)
On-screen 10-line by 24-column character display

IPPV MODULE SPECIFICATIONS

Telephone Return (Optional)

Complies with FCC Part 68

Ringer equivalence

0.00

Interface to telephone line

RJ-11C standard telephone jack

Surge protection

Dual MOVs and Zener diodes

RF Return (Optional)

Frequency range

15.45 MHz to 17.75 MHz

Modulation rate

20 kbps

Modulation technique

BPSK

Maximum output power

+60 dBmV

Unless otherwise noted, specifications are typical.

Specifications and product availability are subject to change without notice.

SoundProtect is a trademark of Sorenson Atlanta, Inc.

Model 8610 Addressable Home Terminal with On-Screen Display

SPECIFICATIONS

Environmental

Temperature
0°C to 45°C
Relative humidity
5% to 95%

Electrical

Input bandwidth
54 MHz to 750 MHz
Number of channels
116 channels (single cable)
255 channels (dual cable)
Output channel downloadable
3 or 4
Output level
9.0 dBmV, typical
Noise figure
8.7 dB (including baseband circuitry)
Return loss
Input
8 dB
Output
12 dB
Spurious response
Output
-60 dBc in channel
Frequency accuracy
±100 kHz max
Frequency stability
±100 kHz max
AC Input
105 V to 125 V
Power consumption
12 W max
Surge protection
AC
Spark gaps and transformer isolation
RF
Inductor shunt to ground
Distortion at +15 dBmV, 78 channel load/116 channel
load (750 MHz)
Flat input, second order
-60 dB
Cross modulation
-60 dB
Composite triple beat
-63 dB max
Input level
-7 dBmV to +20 dBmV
Audio distortion
THD 1%
Audio signal-to-noise
50 dB min

Mechanical

Dimensions
9.2 in. L x 7.0 in. W x 2.4 in. H
Weight
3.6 lbs
Keyboard type
11 keys (front access)
Display type
LED, 4-digit
On-screen 10-line by 24-column character display

IPPV MODULE SPECIFICATIONS

RF Return (Optional)

Frequency range
15.45 MHz to 17.75 MHz
Modulation rate
20 kbps
Modulation technique
BPSK
Maximum output power
+60 dBmV

Unless otherwise noted, specifications are typical.

Specifications and product availability are subject to change without notice.

Scientific Atlanta and the Scientific-Atlanta logo are registered trademarks of Scientific-Atlanta, Inc.

SoundProtect is a trademark of Scientific-Atlanta, Inc.

BA-5000

SPECIFICATIONS

1. Frequency Range 52-456 MHz
2. Channel Selection 65 CH-STD
..... 66 CH-HRC, TRC
3. A) Spectrum Allocation STD/HRC/TRC
Downline loaded
B) Channel Allocation Downline loaded
modifications
4. Output Channel CH. 2 or CH. 3 Factory
Set
5. Gain 5dB Typical
6. Input Return Loss 7dB Min. on Tuned
Channel
7. Output Return Loss 12dB Min. on Tuned
Channel
8. Noise Figure 13dB Nom.
9. Cross Modulation -38dB Max. at 66CH
Flat, + 10 dBmV Input
0. Second Order and
Other Spurious -60dB Max. within
Fv - 0.75 MHz to Fv +
4.5 MHz Range (at 66
CH Flat, + 10 dBmV
Input)
- Upper Adjacent Picture
Carrier Rejection 30 dB Min. (SAW filter;
Image Rejection -60 dB Max.
Chroma Delay 75nSec Max.
- Low Frequency
Modulation -60 dB Max.
Spurious Signal at
output -15 dBmV Max.
Spurious Signal at
input -40 dBmV Max., in
52-456 MHz Range
(at 67 CH Flat + 10
dBmV Input)
- Frequency Stability ±150 KHz for Long
Term Drift
- Feed-Thru Isolation -60 dB Max. in 52-456
MHz range
- Addressable Control
Carrier FSK, 110 MHz
- SK Receiver
Sensitivity -19 dBmV typical
- Optional Dual Cable ..
AB Switch Isolation ... -60 dB Max.
AB Cable Cross Talk .. -65 dB Nom.

CE: All data, product descriptions, and
dimensions contained herein are subject to change
at notice.

 **PIONEER**

2200 Dividend Drive, Columbus, Ohio 43229 (614) 876-3777
Outside Ohio: 1-800-421-2100

1. Frequency Range 52-552 MHz
2. Channel Selection 82 CH-STD
83 CH-HRC, IRC
3. A) Spectrum Allocation. STD/HRC/IRC
Downline loaded
B) Channel Allocation.. Downline loaded
4. Output Channel CH. 2/CH. 3 Downline
loaded
5. Output Level 6 dBmV Typical
6. Input Return Loss 6 dB Min. on Tuned
Channel
7. Output Return Loss 6 dB Min.
8. Cross Modulation -58 dB Max. at 81 CH
Flat, -10 dBmV Input
9. Second Order and
Other Spurious -60 dB Max. within
Fv - 0.75 MHz to Fv +
4.5 MHz Range (for 81
CH Flat, -10 dBmV
Input)
10. Image Rejection -60 dB Max.
11. Chroma Delay 75 nSec Max.
12. Low Frequency
Modulation -60 dB Max.
13. Spurious Signal at
output -15 dBmV Max.
14. Spurious Signal at
input -30 dBmV Max., in
52-552 MHz Range
15. Frequency Stability ± 100 MHz in 100 Hz
Term Drift
16. Feed-Thru Isolation -60 dB Max. in 52-456
MHz Range
17. Noise Figure 9 dB Typical
18. Audio Signal to Noise... 40 dB Min.
19. Video
Signal to Noise 44 dB Typical at
-5 dBmV Input
Differential Gain 10% Max.
Differential Phase 10 degrees Max.
20. Addressable Control
Carrier FSK, 110 MHz
21. FSK Receiver
Sensitivity -19 dBmV typical
22. Dimensions: 260 mmW x
210 mmD x
64 mmH
23. Net Weight: 1.8 Kg

NOTICE: All data, product descriptions, and
specifications contained herein are subject to change
without notice.

 **PIONEER**

PIONEER COMMUNICATIONS OF AMERICA, INC.

600 E. Chestnut Ave.
Upper Saddle River, NJ 07458

(800) 427-4450 - Outside New Jersey
(201) 327-4400
FAX (201) 327-4372

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EXPLORER 2000 DHCT Specifications

Introduction

This section contains operating and other specifications for the EXPLORER 2000 Digital Home Communications Terminal (DHCT).

Electrical Overstress Protection

The EXPLORER 2000 DHCT withstands the following electrical currents without damage:

- hits at 3.5 kV to the RF and AC input ports
- 10 hits of 15 kV from a 150 pF capacitor through a 150 ohm series resistor on all external ports

RF and Baseband Output Performance

The following table provides output measurements based on a +15 dBmV Input signal.

Item	Output
Cross modulation distortion (XMOD)	-54 dBc
Composite second order distortion (CSO)	-54 dBc
Composite triple beat distortion (CTB)	-55 dBc

Frequency Resolution

Frequency assignments comply with *STD*, *HRC*, and *IRC* frequency lineups.

Channel	Steps
QAM (digital)	250 kHz
NTSC (analog)	62.5 kHz

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Power

Item	Power
Consumption	35 Watts maximum
AC Input	Standard residential AC line voltage of 103.5 V AC to 126.5 V AC at 60 Hz
AC Outlet	Supplies 400 Watts maximum at the AC input line voltage. User controls on/off function through EXPLORER 2000 DHCT interface.

Analog Channel RF Input

Item	Specification
Connector	Threaded female F-connector
Frequency range	54 MHz to 860 MHz
RF input level	0 dBmV to +15 dBmV (meets NTSC specs)
Functional operation without damage	-7 dBmV to +20 dBmV (minimum)
Input return loss	7 dB minimum
Noise figure	<12 dB at maximum gain
C/N (at input)	57 dB minimum (meets all specs) 40 dB minimum (minimum)

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Digital Channel Input

Item	Specification
Frequency range	54 MHz to 869 MHz
Input return loss	7 dB minimum
Noise figure	<12 dB at maximum gain
Modulation technique	ITUJ.83 Annex A 64 QAM and 256 QAM
Transmission rate	• Approximately 30 Mbps at 64 QAM • Approximately 40 Mbps at 256 QAM
Transport	DAVIC structure - convolutional de-interleaving and Reed Solomon FEC with T=8
Average private data rate	3 Mbps (from QAM demodulated input to DRAM)
Private data format	per MPEG-2 (ISO/IEC 13818)

RF Input Levels

Item	Modulation Rate	Level
Typical for BER after FEC <10 ⁻⁹	64 QAM	-20 dBmV to +14 dBmV
	256 QAM	-14 dBmV to +14 dBmV
Meets specifications of BER after FEC <10 ⁻⁹	64 QAM	-15 dBmV to +14 dBmV
	256 QAM	-9 dBmV to +14 dBmV
C/N (at input) - to meet BER at input levels above	64 QAM	>32 dB in 6 MHz BW
	256 QAM	>38 dB in 6 MHz BW

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Digital Audio

Item	Specification
Data rate	384 Kbps maximum
Formats	• MPEG-1 • Layer 2 • 2 channel Musicam • AC-3
Supported sampling rates	• 32 kHz • 48 kHz • 44.1 kHz

Computer Generated Audio

The EXPLORER 2000 DHCT supports the following computer audio sampling rates:

- 8 kHz
- 11.025 kHz
- 22.05 kHz
- 24 kHz
- 32 kHz
- 44.1 kHz
- 48 kHz

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Baseband Audio Output

Category	Item	Specification
General	Connector	2 female RCA-type phono jacks: • Right channel - red insulation • Left channel - white insulation
	Output level	1.3 V p-p $\pm 10\%$ with 10 k Ω load
	Output impedance	600 Ω nominal
	Mute	-50 dB
ResApp Controlled	Volume control	30 steps from 0 dB (maximum volume) to -63 dB nominal
Analog service (BTSC selected)	Frequency response	50 Hz to 10 kHz ± 2 dB
	Stereo channel separation	• 25 dB at 3 kHz • 15 dB at 10 kHz
	Total harmonic distortion	1 kHz <3.5%
	Signal-to-noise ratio	• > 45 dB A-weighted • 25 kHz L+R deviation at 1 kHz
Analog service (SAP selected)	Frequency response	100 Hz to 8 kHz ± 2 dB
	Total harmonic distortion	1 kHz < 3.0%
Digital service	Frequency response	20 Hz to 20 kHz ± 1.0 dB
	Signal to noise ratio	• >80 dB A-weighted • >80 dB at 1 kHz (dynamic range)
	Total harmonic distortion - 20 Hz to 20 kHz bandwidth	< 0.2% at 1 kHz
	Stereo channel separation	> 80 dB at 1 kHz

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Baseband Video Output

Item	Specification
Connector	Female RCA type with yellow insulation
Output	1.0 V p-p $\pm 10\%$ at 75 Ω nominal
Frequency response - 220 kHz to 3.75 MHz (can change based on FCC part 76)	± 3 dB p-p
S/N with input +5 dBmV, input C/N 57 dB min. (55-550 MHz)	42 dB minimum unweighted
S/N with input +5 dBmV, input C/N 57 dB min. (55-860 MHz)	41 dB minimum unweighted

RF Output

Item	Specification
Connector	F type
Frequency	- Channel 3 - 61.25 MHz - Channel 4 - 67.25 MHz (channels are switchable)
RF output level	+9 $\pm$ 4.5 dBmV Video $\pm 13.5 \pm 3.5$ dBc Audio
Frequency response - 220 kHz to 3.75 MHz (can change based on FCC part 76)	± 3 dB p-p
Return loss	10 dB minimum
S/N with input +5 dBmV, input C/N 57 dB min. (55-550 MHz)	42 dB minimum unweighted equivalent to a 49 dB C/N, assuming 7 dB correction factor
S/N with input +5 dBmV, input C/N 57 dB min. (550-850 MHz)	41 dB minimum unweighted equivalent to a 48 dB C/N, assuming 7 dB correction factor

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

S-Video Output

Part	Function
Connector	4-position mini-DIN
S/N with input +5 dBmV, input C/N 57 dB min. (55-550 MHz)	42 dB minimum unweighted
S/N with input +5 dBmV, input C/N 57 dB min. (550-860 MHz)	41 dB minimum unweighted
Output levels	• Y: 1 V p-p $\pm 10\%$ • C: 0.29 V p-p $\pm 10\%$

Forward Control Channel RF Input

Item	Specification
Modulation technique	Differential QPSK
Frequency	70 MHz to 130 MHz agile in 250 kHz steps
Transmission rate	1.544 Mbps
Channel bandwidth	1 MHz
Channel spacing	1 MHz
Adjacent channel performance (data)	Meets BER performance at +6 dBc 1.00 MHz from center
Mode	Continuous
Transmission format	DS1 extended Superframe - 53 byte ATM cells with AAL5 layer T=1 Reed Solomon
RF input level	-16 dBm VRMS to +15 dBm VRMS (6 dB to 16 dB below NTSC video)
BER performance at C/N=18 dB (in 772 kHz BW) at RF level above	$< 10^{-9}$ after Reed Solomon

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Reverse Control and Interactive Channel RF Output

Item	Specification
Modulation technique	Differential QPSK
Frequency	8 MHz to 26.5 MHz
Channel bandwidth	1 MHz
Channel step size	50 kHz
Forward error correction	Shortened Reed Solomon (59,53), T=3
Mode	Burst mode
Transmission rate	256 Kbps or 1.544 Mbps (maximum burst rate)
Transmission format	53 byte ATM cells
Channel sharing protocol	Slotted ALOHA, TDMA and Reservation
Maximum RF output level	Variable +55 dBm VRMS minimum
C/N0, 2 MHz from carrier (Output level >40 dbm VRMS)	120 dB/Hz
Spurious output (5-42 MHz)	-45 dBC
Channel tuning time	< 5 mS

Memory Configuration

Memory Type	Capacity
CPU DRAM	4 MB standard, MB expandable to 16 MB at factory
CPU Flash	2 MB
CPU ROM	2 MB
Decompression/Graphics SDRAM	2 MB (shared by CPU for application processing)
CPU EEPROM	16 kb

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Eagle Graphics/Video Processing Specifications

Item	Specification
Video resolution	Up to 720 x 480 VGA
Graphics resolution	Up to 640 x 480 VGA non-interlaced
Color graphics display mode	256 or 65,000
Graphics features	• Video scaling and capturing • Alpha blending • 8 or 16 bit color • Square and round pixel display • Anti-flutter filter • Anti-aliasing fonts • Supports transparent, translucent, and opaque graphics and overlays

Environmental Specifications

Item	Specification
Operational temperature range	0°C to 40°C (32°F to 104°F)
Humidity	5% to 95%, non-condensing

Regulatory Specifications

The EXPLORER 2000 Digital Home Communications Terminal (DHCT) meets FCC Part 15, subpart B, class B, applicable parts of Part 76, and UL rule #1409 under the required category of Cable Terminal Devices.

Remote Control Specifications

Introduction

This section contains specifications for the Model 2050-ER1 remote control.

Remote Control Specifications

Item	Specification
IR wavelength	940 nm
Transmitting Range to EXPLORER 2000 DHCT at 2.8 V minimum voltage	• Straight to STT - 8 meters • Remote 30 degrees off center (all directions) • Remote 80 degrees up
Power	• Operational at a minimum battery voltage of 2.4 V • Meets specifications at 2.8 V • The microprocessor remains in stop mode to conserve power until the user presses a button.
Batteries	Uses 2 AA alkaline batteries
Operating temperature	0°C to 40°C (32°F to 104°F)

ETN* MICRO-SERIES Single Channel Negative Traps

Typical Response

MODEL	CHANNEL		NOTCH-DEPTH	L.A.S.	UPPER VIDEO	HIGH FREQUENCY LOSS
ETN-2*	2	2	-75 dB	-2.0 dB	-0.5 dB	-2.5dB @ 800 MHz
ETN-3	3	3	-75 dB	-2.5 dB	-0.5 dB	-2.5dB @ 860 MHz
ETN-4	4	4	-75 dB	-2.5 dB	-0.5 dB	-2.5dB @ 860 MHz
ETN-5	5	5	-75 dB	-0.5 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-6.	6	6	-75 dB	-3.5 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-A-2	A-2	98	-75 dB		-1.0 dB	-2.5dB @ 860 MHz
ETN-A-1	A-1	99	-75 dB	-5.5 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-A	A	14	-75 dB	-5.8 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-B	B	15	-75 dB	-5.8 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-C	C	16	-75 dB	-5.8 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-D	D	17	-75 dB	-6.0 dB	-1.0 dB	-2.5dB @ 860 MHz
ETN-E	E	18	-75 dB	-6.2 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-F	F	19	-75 dB	-6.5 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-G	G	20	-75 dB	-6.8 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-H	H	21	-75 dB	-7.0 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-I	I	22	-75 dB	-7.2 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-7	7	7	-75 dB	-7.5 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-8	8	8	-75 dB	-8.0 dB	-1.2 dB	-2.5dB @ 860 MHz
ETN-9	9	9	-75 dB	-8.2 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-10	10	10	-75 dB	-9.0 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-11	11	11	-75 dB	-9.5 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-12	12	12	-75 dB	-10.0 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-13	13	13	-75 dB	-10.5 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-J	J	23	-70 dB	-11.5 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-K	K	24	-70 dB	-12.5 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-L	L	25	-70 dB	-13.5 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-M	M	26	-70 dB	-14.5 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-N	N	27	-70 dB	-15.0 dB	-1.5 dB	-2.5dB @ 860 MHz
ETN-O	O	28	-70 dB	-15.5 dB	-2.0 dB	-2.5dB @ 860 MHz
ETN-P	P	29	-70 dB	-16.0 dB	-2.0 dB	-2.5dB @ 860 MHz
ETN-Q	Q	30	-70 dB	-16.5 dB	-2.0 dB	-2.5dB @ 860 MHz
ETN-R	R	31	-70 dB	-17.0 dB	-2.0 dB	-2.5dB @ 860 MHz
ETN-S	S	32	-70 dB	-17.5 dB	-2.0 dB	-2.5dB @ 860 MHz
ETN-T	T	33	-70 dB	-18.5 dB	-2.5 dB	-2.5dB @ 860 MHz
ETN-U	U	34	-70 dB	-20.0 dB	-2.5 dB	-2.5dB @ 860 MHz
ETN-V	V	35	-70 dB	-21.5 dB	-2.5 dB	-2.5dB @ 860 MHz
ETN-W**	W	36	-70 dB	-23.0 dB	-2.5 dB	-2.5dB @ 860 MHz

* Patents #4451803, 5202656 **Higher channels available upon request.



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ESN* Single Channel Negative Traps

Typical Response

Model	Channel		Notch Depth	L.A.S.	Upper Video	High Frequency Loss
ESN-A-2*	A-2	98	-75 dB	-3.2 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-A-1	A-1	99	-75 dB	-3.5 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-A	A	14	-75 dB	-3.7 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-B	B	15	-75 dB	-4.0 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-C	C	16	-75 dB	-4.3 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-D	D	17	-75 dB	-4.6 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-E	E	18	-75 dB	-4.8 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-F	F	19	-75 dB	-5.1 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-G	G	20	-75 dB	-5.4 dB	-1.0 dB	-1.5 dB @ 860 MHz
ESN-H	H	21	-75 dB	-5.6 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-I	I	22	-75 dB	-5.9 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-7	7	7	-75 dB	-6.1 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-8	8	8	-75 dB	-6.3 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-9	9	9	-75 dB	-6.5 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-10	10	10	-75 dB	-6.6 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-11	11	11	-75 dB	-6.8 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-12	12	12	-75 dB	-7.0 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-13	13	13	-75 dB	-7.2 dB	-1.2 dB	-1.5 dB @ 860 MHz
ESN-J	J	23	-70 dB	-7.4 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-K	K	24	-70 dB	-7.6 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-L	L	25	-70 dB	-7.8 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-M	M	26	-70 dB	-8.1 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-N	N	27	-70 dB	-8.2 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-O	O	28	-70 dB	-8.4 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-P	P	29	-70 dB	-8.7 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-Q	Q	30	-70 dB	-9.0 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-R	R	31	-70 dB	-9.3 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-S	S	32	-70 dB	-9.6 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-T	T	33	-70 dB	-9.9 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-U	U	34	-70 dB	-10.1 dB	-1.4 dB	-2.0 dB @ 1 GHz
ESN-V	V	35	-70 dB	-10.3 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-W	W	36	-70 dB	-10.5 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-AA	AA	37	-70 dB	-10.6 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-BB	BB	38	-70 dB	-10.8 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-CC	CC	39	-70 dB	-11.0 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-DD	DD	40	-70 dB	-11.2 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-EE	EE	41	-70 dB	-11.3 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-FF	FF	42	-70 dB	-11.4 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-GG	GG	43	-70 dB	-11.5 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-HH	HH	44	-70 dB	-11.7 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-II	II	45	-70 dB	-12.0 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-JJ	JJ	46	-70 dB	-12.3 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-KK	KK	47	-70 dB	-12.6 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-LL	LL	48	-70 dB	-12.9 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-MM	MM	49	-70 dB	-13.2 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-NN	NN	50	-70 dB	-13.5 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-OO	OO	51	-70 dB	-13.8 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-PP	PP	52	-70 dB	-14.1 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-QQ	QQ	53	-70 dB	-14.3 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-RR	RR	54	-70 dB	-14.5 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-SS	SS	55	-70 dB	-14.8 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-TT	TT	56	-70 dB	-14.9 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-UU	UU	57	-70 dB	-15.1 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-VV	VV	58	-70 dB	-15.3 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-WW	WW	59	-70 dB	-15.5 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-XX	XX	60	-70 dB	-15.7 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-YY	YY	61	-70 dB	-15.9 dB	-1.8 dB	-2.0 dB @ 1 GHz
ESN-ZZ	ZZ	62	-70 dB	-16.1 dB	-1.8 dB	-2.0 dB @ 1 GHz

*Patents #5148133, 5168251

Trap: Length is 3.56" / Diameter .825 / Specifications subject to change without notice

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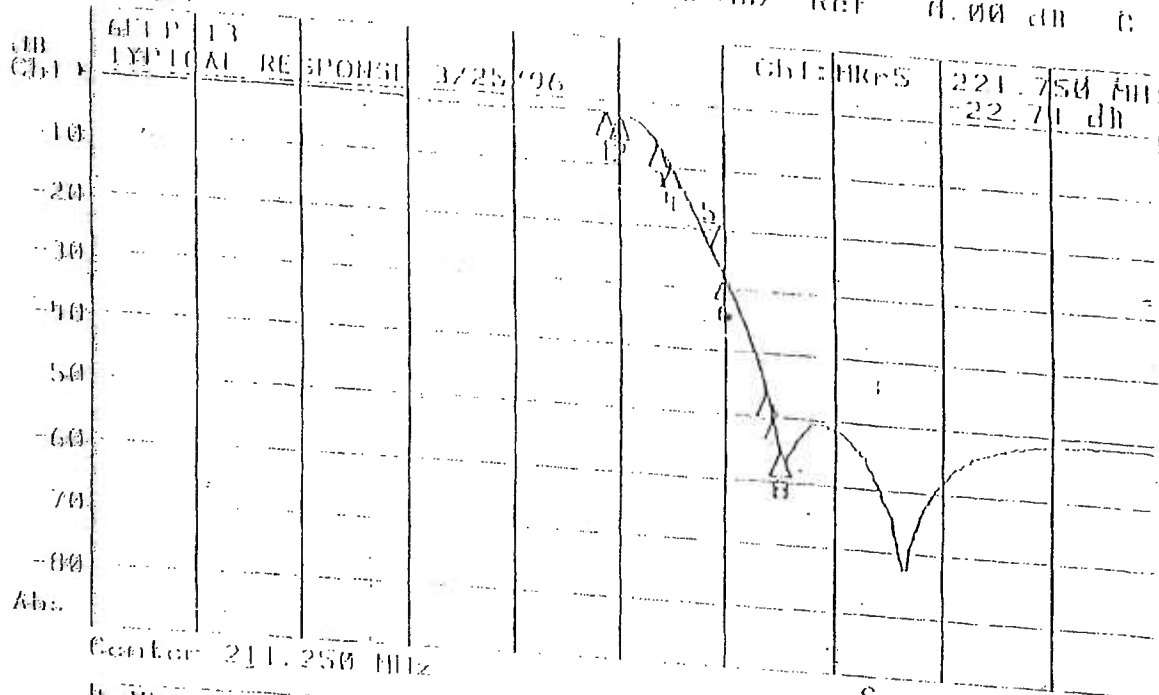
Pub No. 4964

Printed in USA



01: Transmission
02: QTC

Log Mag: 10.0 dBZ Ref: 0.00 dB C



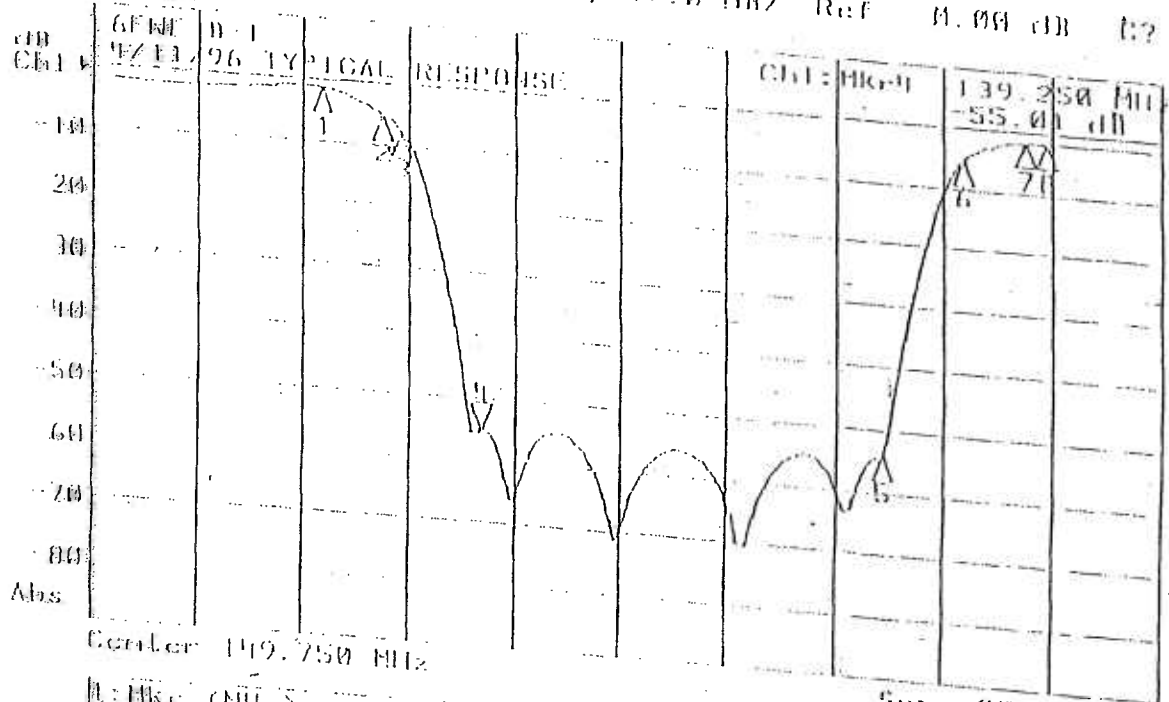
Center 211.250 MHz

Span 120.000 MHz

1: Hkr (MHz)	dB	2: Hkr (MHz)	dB
1: 209.75	-1.67		
2: 211.25	-3.95		
3: 215.75	-5.92		
4: 217.25	-6.34		
5: 221.75	-22.74		
6: 221.25	-27.59		
7: 227.75	-46.02		
8: 229.25	-55.15		

1: Transmission
2: Off

Log Mag 10.0 dBZ Ref 0.00 dB 1.7



Center 149.750 MHz

Span 80.000 MHz

1: Hkr (MHz)	dB
1: 127.25	-1.10
2: 131.75	-5.02
3: 133.25	-7.30
4: 139.25	-55.01
5: 169.25	-53.75
6: 175.25	-5.01
7: 179.75	-1.56
8: 181.25	-1.55

2: Hkr (MHz)	dB
--------------	----

TIME WARNER CABLE -- SYRACUSE DIVISION

FCC Proof - of - Performance Tests

Headend Tests

System Name: Carthage / Watertown

HE Location: PHILADELPHIA

TIME WARNER CABLE – SYRACUSE DIVISION

Visual Carrier and Aural Carrier Difference Frequency Tests (at Headend)

System Name: Carthage / Watertown

HE Location: CARTHAGE

Date: January 10, 2003

Performed by: MARK FAVRET

Chan	Freq	Visual (MHz)	Aural (MHz)	Chan	Freq	Visual (MHz)	Aural (MHz)
2	55.2500	55.2500	4.4998	DD(40)	319.2625	319.2633	4.5002
3	61.2500	61.2500	4.4999	EE(41)	325.2625	325.2622	4.5001
4	67.2500	67.2500	4.5000	FF(42)	331.2750	331.2753	4.5001
5	77.2500	77.2501	4.4999	GG(43)	337.2625	337.2623	4.5000
6	83.2500	83.2505	4.4999	HH(44)	343.2625	343.2622	4.5003
A-5(95)	91.2500			II(45)	349.2625	349.2620	4.4999
A-4(96)	97.2500	97.2632	4.5000	JJ(46)	355.2625	355.2615	4.4998
A-3(97)	103.2500			KK(47)	361.2625	361.2615	4.5000
A-2(98)	109.2750			LL(48)	367.2625	367.2615	4.4998
A-1(99)	115.2750			MM(49)	373.2625	373.2624	4.5003
A(14)	121.2625	121.2630	4.4997	NN(50)	379.2625	379.2631	4.4998
B(15)	127.2625	127.2614	4.4998	OO(51)	385.2625	385.2627	4.5003
C(16)	133.2625	133.2628	4.4998	PP(52)	391.2625	391.2625	4.5000
D(17)	139.2500	139.2625	4.5002	QQ(53)	397.2625	397.2623	4.4999
E(18)	145.2500	145.2626	4.5001	RR(54)	403.2500	403.2510	4.4998
F(19)	151.3210	151.3231	4.5001	SS(55)	409.2500	409.2493	4.4997
G(20)	157.2500	157.2617	4.4998	TT(56)	415.2500	415.2508	4.4997
H(21)	163.2500	163.2625	4.5001	UU(57)	421.2500	421.2505	4.5003
I(22)	169.2500	169.2624	4.5001	VV(58)	427.2500	427.2498	4.4999
7	175.2500	175.2512	4.5001	WW(59)	433.2500	433.2608	4.5003
8	181.2500	181.2626	4.5002	XX(60)	439.2500	439.2488	4.4998
9	187.2500	187.2498	4.4999	YY(61)	445.2500	445.2639	4.5001
10	193.2500	193.2623	4.5000	ZZ(62)	451.2500	451.2496	4.5001
11	199.2500	199.2624	4.5000	63	457.2500	457.2502	4.5000
12	205.2500	205.2505	4.4999	64	463.2500	463.2506	4.4997
13	211.2500	211.2621	4.5000	65	469.2500	469.2500	4.4997
J(23)	217.2500	217.2627	4.5002	66	475.2500	475.2629	4.4994
K(24)	223.2500	223.2507	4.4999	67	481.2500	481.2503	4.4997
L(25)	229.2625	229.2629	4.4997	68	487.2500	487.2498	4.5000
M(26)	235.2625	235.2624	4.5002	69	493.2500	493.2492	4.4998
N(27)	241.2625	241.2632	4.5001	70	499.2500	499.2512	4.5001
O(28)	247.2625	247.2629	4.5001	71	505.2500	505.2621	4.5000
P(29)	253.2625	253.2615	4.5000	72	511.2500	511.2485	4.5001
Q(30)	259.2625	259.2630	4.5000	73	517.2500	517.2615	4.4993
R(31)	265.2625	265.2629	4.4998	74	523.2500	523.2624	4.5001
S(32)	271.2625	271.2627	4.4997	75	529.2500	529.2624	4.4999
T(33)	277.2625	277.2626	4.4994	76	535.2500		
U(34)	283.2625	283.2627	4.5000	77	541.2500		
V(35)	289.2625	289.2621	4.5001	78	547.2500	547.2628	4.4994
W(36)	295.2625	295.2627	4.4994	79	553.2500		
AA(37)	301.2625	301.2628	4.4997	80	559.2500		
BB(38)	307.2625	307.2633	4.4999	81	565.2500		
CC(39)	313.2625	313.2626	4.4999				

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier and Aural Carrier Difference Frequency Tests (at Headend)

System Name: WATERTOWN
 HE Location: WATERTOWN Date: January 6, 2003
 Performed by: TIM AMES

Chart	Freq	Visual Freq (MHz)	Aural Freq (MHz)	Step	Freq	Freq	Freq	Freq
2	55.2500			DD(40)	319.2625			
3	61.2500			EE(41)	325.2625			
4	67.2500			FF(42)	331.2750			
5	77.2500			GG(43)	337.2625			
6	83.2500	83.2509	4.5001	HH(44)	343.2625			
A-5(95)	91.2500			II(45)	349.2625	349.2620		4.5000
A-4(96)	97.2500			JJ(46)	355.2625	355.2625		4.4998
A-3(97)	103.2500	103.2499	4.5001	KK(47)	361.2625	361.2628		4.4999
A-2(98)	109.2750			LL(48)	367.2625	367.2620		4.5000
A-1(99)	115.2750	115.2752	4.5000	MM(49)	373.2625			
A(14)	121.2625			NN(50)	379.2625			
B(15)	127.2625			OO(51)	385.2625			
C(16)	133.2625			PP(52)	391.2625			
D(17)	139.2500			QQ(53)	397.2625			
E(18)	145.2500			RR(54)	403.2500	403.2625		4.5000
F(19)	151.3210			SS(55)	409.2500			
G(20)	157.2500			TT(56)	415.2500			
H(21)	163.2500			UU(57)	421.2500	421.2620		4.4999
I(22)	169.2500			VV(58)	427.2500			
7	175.2500			WW(59)	433.2500			
8	181.2500			XX(60)	439.2500			
9	187.2500			YY(61)	445.2500			
10	193.2500			ZZ(62)	451.2500			
11	199.2500			63	457.2500			
12	205.2500			64	463.2500			
13	211.2500			65	469.2500			
J(23)	217.2500			66	475.2500			
K(24)	223.2500			67	481.2500			
L(25)	229.2625			68	487.2500			
M(26)	235.2625			69	493.2500			
N(27)	241.2625			70	499.2500			
O(28)	247.2625			71	505.2500			
P(29)	253.2625			72	511.2500			
Q(30)	259.2625			73	517.2500			
R(31)	265.2625			74	523.2500			
S(32)	271.2625			75	529.2500			
T(33)	277.2625			76	535.2500			
U(34)	283.2625			77	541.2500			
V(35)	289.2625			78	547.2500			
W(36)	295.2625			79	553.2500			
AA(37)	301.2625			80	559.2500			
BB(38)	307.2625			81	565.2500			
CC(39)	313.2625							

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier and Aural Carrier Difference Frequency Tests (at Headend)

System Name: INDIAN RIVER
 HE Location: PHILADELPHIA Date: January 10, 2003
 Performed by: MARK FAVRET

Chan	Freq	Visual Freq (MHz)	Aural Freq (MHz)	Chan	Freq	Visual Freq (MHz)	Aural Freq (MHz)
2	55.2500			DD(40)	319.2625		
3	61.2500			EE(41)	325.2625		
4	67.2500			FF(42)	331.2750		
5	77.2500			GG(43)	337.2625		
6	83.2500			HH(44)	343.2625		
A-5(95)	91.2500			II(45)	349.2625		
A-4(96)	97.2500			JJ(46)	355.2625		
A-3(97)	103.2500			KK(47)	361.2625		
A-2(98)	109.2750			LL(48)	367.2625		
A-1(99)	115.2750	115.2753	4.4999	MM(49)	373.2625		
A(14)	121.2625			NN(50)	379.2625		
B(15)	127.2625			OO(51)	385.2625		
C(16)	133.2625			PP(52)	391.2625		
D(17)	139.2500			QQ(53)	397.2625		
E(18)	145.2500			RR(54)	403.2500		
F(19)	151.3210			SS(55)	409.2500		
G(20)	157.2500			TT(56)	415.2500		
H(21)	163.2500			UU(57)	421.2500		
I(22)	169.2500			VV(58)	427.2500		
7	175.2500			WW(59)	433.2500		
8	181.2500			XX(60)	439.2500		
9	187.2500			YY(61)	445.2500		
10	193.2500			ZZ(62)	451.2500		
11	199.2500			63	457.2500		
12	205.2500			64	463.2500		
13	211.2500			65	469.2500		
J(23)	217.2500			66	475.2500		
K(24)	223.2500			67	481.2500		
L(25)	229.2625			68	487.2500		
M(26)	235.2625			69	493.2500		
N(27)	241.2625			70	499.2500		
O(28)	247.2625			71	505.2500		
P(29)	253.2625			72	511.2500		
Q(30)	259.2625			73	517.2500		
R(31)	265.2625			74	523.2500		
S(32)	271.2625			75	529.2500		
T(33)	277.2625			76	535.2500		
U(34)	283.2625			77	541.2500		
V(35)	289.2625			78	547.2500		
W(36)	295.2625			79	553.2500		
AA(37)	301.2625			80	559.2500		
BB(38)	307.2625			81	565.2500		
CC(39)	313.2625						

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier and Aural Carrier Difference Frequency Tests (at Headend)

System Name: CLAYTON/CHAUMONT

HE Location: PHILADELPHIA

Date: January 10, 2003

Performed by: TIM AMES

Chan	Freq	USDB M/CC	Aural Freq (MHz)	Chan	Freq	USDB M/CC	Aural Freq (MHz)
2	55.2500			DD(40)	319.2625		
3	61.2500			EE(41)	325.2625		
4	67.2500			FF(42)	331.2750		
5	77.2500			GG(43)	337.2625		
6	83.2500			HH(44)	343.2625		
A-5(95)	91.2500			II(45)	349.2625		
A-4(96)	97.2500			JJ(46)	355.2625		
A-3(97)	103.2500			KK(47)	361.2625		
A-2(98)	109.2750			LL(48)	367.2625		
A-1(99)	115.2750	115.2753	4.5000	MM(49)	373.2625		
A(14)	121.2625			NN(50)	379.2625		
B(15)	127.2625			OO(51)	385.2625		
C(16)	133.2625			PP(52)	391.2625		
D(17)	139.2500			QQ(53)	397.2625		
E(18)	145.2500			RR(54)	403.2500		
F(19)	151.3210			SS(55)	409.2500		
G(20)	157.2500			TT(56)	415.2500		
H(21)	163.2500			UU(57)	421.2500		
I(22)	169.2500			VV(58)	427.2500		
7	175.2500			WW(59)	433.2500		
8	181.2500			XX(60)	439.2500		
9	187.2500			YY(61)	445.2500		
10	193.2500			ZZ(62)	451.2500		
11	199.2500			63	457.2500		
12	205.2500			64	463.2500		
13	211.2500			65	469.2500		
J(23)	217.2500			66	475.2500		
K(24)	223.2500			67	481.2500		
L(25)	229.2625			68	487.2500		
M(26)	235.2625			69	493.2500		
N(27)	241.2625			70	499.2500		
O(28)	247.2625			71	505.2500		
P(29)	253.2625			72	511.2500		
Q(30)	259.2625			73	517.2500		
R(31)	265.2625			74	523.2500		
S(32)	271.2625			75	529.2500		
T(33)	277.2625			76	535.2500		
U(34)	283.2625			77	541.2500		
V(35)	289.2625			78	547.2500		
W(36)	295.2625			79	553.0000		
AA(37)	301.2625			80	559.0000		
BB(38)	307.2625			81	565.0000		
CC(39)	313.2625						

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier and Aural Carrier Difference Frequency Tests (at Headend)

System Name: ADAMS/HENDERSON

HE Location: PHILADELPHIA

Date: January 6, 2003

Performed by: TIM AMES

Chan	Freq	Visual Freq (MHz)	Aural Freq (MHz)	Diff Freq (MHz)	Chan	Freq	Visual Freq (MHz)	Aural Freq (MHz)	Diff Freq (MHz)
2	55.2500				DD(40)	319.2625			
3	61.2500				EE(41)	325.2625			
4	67.2500				FF(42)	331.2750			
5	77.2500				GG(43)	337.2625			
6	83.2500				HH(44)	343.2625			
A-5(95)	91.2500				II(45)	349.2625			
A-4(96)	97.2500				JJ(46)	355.2625			
A-3(97)	103.2500				KK(47)	361.2625			
A-2(98)	109.2750				LL(48)	367.2625			
A-1(99)	115.2750	115.2753	4.5001		MM(49)	373.2625			
A(14)	121.2625				NN(50)	379.2625			
B(15)	127.2625				OO(51)	385.2625			
C(16)	133.2625				PP(52)	391.2625			
D(17)	139.2500				QQ(53)	397.2625			
E(18)	145.2500				RR(54)	403.2500			
F(19)	151.3210				SS(55)	409.2500			
G(20)	157.2500				TT(56)	415.2500			
H(21)	163.2500				UU(57)	421.2500			
I(22)	169.2500				VV(58)	427.2500			
7	175.2500				WW(59)	433.2500			
8	181.2500				XX(60)	439.2500			
9	187.2500				YY(61)	445.2500			
10	193.2500				ZZ(62)	451.2500			
11	199.2500				63	457.2500			
12	205.2500				64	463.2500			
13	211.2500				65	469.2500			
J(23)	217.2500				66	475.2500			
K(24)	223.2500				67	481.2500			
L(25)	229.2625				68	487.2500			
M(26)	235.2625				69	493.2500			
N(27)	241.2625				70	499.2500			
O(28)	247.2625				71	505.2500			
P(29)	253.2625				72	511.2500			
Q(30)	259.2625				73	517.2500			
R(31)	265.2625				74	523.2500			
S(32)	271.2625				75	529.2500			
T(33)	277.2625				76	535.2500			
U(34)	283.2625				77	541.2500			
V(35)	289.2625				78	547.2500			
W(36)	295.2625				79	553.2500			
AA(37)	301.2625				80	559.2500			
BB(38)	307.2625				81	565.2500			
CC(39)	313.2625								

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier and Aural Carrier Difference Frequency Tests (at Headend)

System Name: LOWVILLE / LEWIS

HE Location: LOWVILLE

Date: January 15, 2003

Performed by: MARK FAVRET

Chan	Freq	Visual Freq (MHz)	Aural Freq (MHz)	Chan	Freq	Visual Freq (MHz)	Aural Freq (MHz)
2	55.2500			DD(40)	319.2625		
3	61.2500			EE(41)	325.2625		
4	67.2500			FF(42)	331.2750		
5	77.2500			GG(43)	337.2625		
6	83.2500			HH(44)	343.2625		
A-5(95)	91.2500			II(45)	349.2625		
A-4(96)	97.2500			JJ(46)	355.2625		
A-3(97)	103.2500			KK(47)	361.2625		
A-2(98)	109.2750			LL(48)	367.2625		
A-1(99)	115.2750	115.2753	4.5000	MM(49)	373.2625		
A(14)	121.2625			NN(50)	379.2625		
B(15)	127.2625			OO(51)	385.2625		
C(16)	133.2625			PP(52)	391.2625		
D(17)	139.2500			QQ(53)	397.2625		
E(18)	145.2500			RR(54)	403.2500		
F(19)	151.3210			SS(55)	409.2500		
G(20)	157.2500			TT(56)	415.2500		
H(21)	163.2500			UU(57)	421.2500		
I(22)	169.2500			VV(58)	427.2500		
7	175.2500			WW(59)	433.2500		
8	181.2500			XX(60)	439.2500		
9	187.2500			YY(61)	445.2500		
10	193.2500			ZZ(62)	451.2500		
11	199.2500			63	457.2500		
12	205.2500			64	463.2500		
13	211.2500			65	469.2500		
J(23)	217.2500			66	475.2500		
K(24)	223.2500			67	481.2500		
L(25)	229.2625			68	487.2500		
M(26)	235.2625			69	493.2500		
N(27)	241.2625			70	499.2500		
O(28)	247.2625			71	505.2500		
P(29)	253.2625			72	511.2500		
Q(30)	259.2625			73	517.2500		
R(31)	265.2625			74	523.2500		
S(32)	271.2625			75	529.2500		
T(33)	277.2625			76	535.2500		
U(34)	283.2625			77	541.2500		
V(35)	289.2625			78	547.2500		
W(36)	295.2625			79	553.2500		
AA(37)	301.2625			80	559.2500		
BB(38)	307.2625			81	565.2500		
CC(39)	313.2625						

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier and Aural Carrier Difference Frequency Tests (at Headend)

System Name: ADAMS,LOWVILLE,HENDERSON,LEWIS

HE Location: PHILADELPHIA

Date: January 6, 2003

Performed by: TIM AMES

Chan	Freq	Visual Freq (MHz)	Aural Freq (MHz)	Chan	Freq	Visual Freq (MHz)	Aural Freq (MHz)
2	55.2500			DD(40)	319.2625		
3	61.2500			EE(41)	325.2625		
4	67.2500			FF(42)	331.2750		
5	77.2500			GG(43)	337.2625		
6	83.2500			HH(44)	343.2625		
A-5(95)	91.2500			II(45)	349.2625		
A-4(96)	97.2500			JJ(46)	355.2625		
A-3(97)	103.2500			KK(47)	361.2625		
A-2(98)	109.2750			LL(48)	367.2625		
A-1(99)	115.2750			MM(49)	373.2625		
A(14)	121.2625			NN(50)	379.2625		
B(15)	127.2625			OO(51)	385.2625		
C(16)	133.2625			PP(52)	391.2625		
D(17)	139.2500			QQ(53)	397.2625		
E(18)	145.2500			RR(54)	403.2500		
F(19)	151.3210			SS(55)	409.2500		
G(20)	157.2500			TT(56)	415.2500		
H(21)	163.2500			UU(57)	421.2500		
I(22)	169.2500			VV(58)	427.2500		
7	175.2500			WW(59)	433.2500		
8	181.2500			XX(60)	439.2500		
9	187.2500			YY(61)	445.2500		
10	193.2500			ZZ(62)	451.2500		
11	199.2500			63	457.2500		
12	205.2500			64	463.2500		
13	211.2500			65	469.2500		
J(23)	217.2500			66	475.2500		
K(24)	223.2500			67	481.2500		
L(25)	229.2625			68	487.2500		
M(26)	235.2625			69	493.2500		
N(27)	241.2625			70	499.2500		
O(28)	247.2625			71	505.2500		
P(29)	253.2625			72	511.2500		
Q(30)	259.2625			73	517.2500		
R(31)	265.2625			74	523.2500		
S(32)	271.2625			75	529.2500		
T(33)	277.2625			76	535.2500	535.2500	4.5000
U(34)	283.2625			77	541.2500	541.2500	4.4999
V(35)	289.2625			78	547.2500		
W(36)	295.2625			79	553.2500		
AA(37)	301.2625			80	559.2500		
BB(38)	307.2625	307.26328	4.49995	81	565.2500		
CC(39)	313.2625						

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual / Aural Level Difference Test (at Headend)

System Name: Carthage / Watertown

HE Location: Carthage

Date : 01/14/03

Performed by:

TIM AMES

Time : 13:14:19

Meter / Serial Number :

213783

Channel	Min	Max	Level	Diff	Level	Diff	Channel	Min	Max	Level	Diff	Level	Diff
2	55.2500	14.2	-0.1	14.3			DD(40)	319.2625	14.0	-1.0		15	
3	61.2500	14.1	-0.8	14.9			EE(41)	325.2625	14.7	-0.2		14.9	
4	67.2500	14.8	0.4	14.4			FF(42)	331.2750	14.7	-0.3		15	
5	77.2500	14.3	0.4	13.9			GG(43)	337.2625	14.7	-0.1		14.8	
6	83.2500	14.8	-0.1	14.9			HH(44)	343.2625	14.6	0.7		13.9	
A-5(95)	91.2500	N/A	N/A	N/A			II(45)	349.2625	14.9	0.3		14.6	
A-4(96)	97.2500	14.1	-0.9	15			JJ(46)	355.2625	14.3	0.9		13.4	
A-3(97)	103.2500	N/A	N/A	N/A			KK(47)	361.2625	14.8	0.1		14.7	
A-2(98)	109.2750	N/A	N/A	N/A			LL(48)	367.2625	14.5	0.7		13.8	
A-1(99)	115.2750	14.0	0.0	14			MM(49)	373.2625	14.9	0.6		14.3	
A(14)	121.2625	14.8	-0.1	14.9			NN(50)	379.2625	14.7	0.5		14.2	
B(15)	127.2625	14.7	-0.3	15			OO(51)	385.2625	14.3	0.4		13.9	
C(16)	133.2625	14.3	0.2	14.1			PP(52)	391.2625	14.0	0.1		13.9	
D(17)	139.2500	14.8	-0.1	14.9			QQ(53)	397.2625	14.1	-0.2		14.3	
E(18)	145.2600	14.0	-0.4	14.4			RR(54)	403.2500	14.1	-0.9		15	
F(19)	151.3210	14.7	0.2	14.5			SS(55)	409.2500	14.2	-0.2		14.4	
G(20)	157.2500	14.9	0.3	14.6			TT(56)	415.2500	14.2	-0.2		14.4	
H(21)	163.2500	14.1	0.2	13.9			UU(57)	421.2500	14.1	0.2		13.9	
I(22)	169.2500	14.9	-0.1	15			VV(58)	427.2500	14.5	0.0		14.5	
7	175.2500	14.7	-0.1	14.8			WW(59)	433.2500	14.1	-0.9		15	
8	181.2500	14.4	-0.4	14.8			XX(60)	439.2500	14.0	-1.0		15	
9	187.2500	14.6	-0.1	14.7			YY(61)	445.2500	14.0	-0.5		14.5	
10	193.2500	14.6	0.1	14.5			ZZ(62)	451.2500	14.6	-0.2		14.8	
11	199.2500	14.1	0.5	13.6			63	457.2500	14.7	-0.1		14.8	
12	205.2500	14.2	-0.6	14.8			64	463.2500	14.8	-0.1		14.9	
13	211.2500	14.5	0.0	14.5			65	469.2500	14.8	-0.2		15	
J(23)	217.2500	14.4	0.3	14.1			66	475.2500	14.2	-0.6		14.8	
K(24)	223.2500	14.8	0.4	14.4			67	481.2500	14.7	-0.2		14.9	
L(25)	229.2625	14.5	0.1	14.4			68	487.2500	14.0	-0.6		14.6	
M(26)	235.2625	14.3	-0.3	14.6			69	493.2500	14.0	-0.6		14.6	
N(27)	241.2625	14.1	-0.1	14.2			70	499.2500	14.6	-0.3		14.9	
O(28)	247.2625	14.6	-0.1	14.7			71	505.2500	14.4	0.9		13.5	
P(29)	253.2625	14.8	-0.2	15			72	511.2500	14.1	-0.4		14.5	
Q(30)	259.2625	14.5	-0.1	14.6			73	517.2500	14.5	-0.2		14.7	
R(31)	265.2625	14.3	-0.2	14.5			74	523.2500	14.0	-0.4		14.4	
S(32)	271.2625	14.5	-0.2	14.7			75	529.2500	14.6	0.0		14.6	
T(33)	277.2625	14.5	0.1	14.4			76	535.2500	N/A	N/A		N/A	
U(34)	283.2625	14.3	-0.2	14.5			77	541.2500	N/A	N/A		N/A	
V(35)	289.2625	14.0	0.0	14			78	547.2500	14.0	-0.5		14.5	
W(36)	295.2625	14.6	-0.1	14.7			79	553.2500	N/A	N/A		N/A	
AA(37)	301.2625	14.0	-0.1	14.1			80	559.2500	N/A	N/A		N/A	
BB(38)	307.2625	14.0	-0.3	14.3			81	565.2500	N/A	N/A		N/A	
CC(39)	313.2625	14.7	0.5	14.2									

Min Channel:-

A-1(99)

14:00

Max Channel:-

G(20)

14:90

PEAK TO VALLEY:

0.9

TIME WARNER CABLE - SYRACUSE DIVISION

Visual / Aural Level Difference Test (at Headend)

System Name: Carthage / Watertown

HE Location: WATERTOWN

Date : 01/14/03

Performed by:

TIM AMES

Time : 16:40:10

Meter / Serial Number :

213783

Chan	Freq (MHz)	Visual Level (dbmV)	Aural Level (dbmV)	SC (dbmV)	Chan	Freq (MHz)	Visual Level (dbmV)	Aural Level (dbmV)	SC (dbmV)
2	55.2500	N/A	N/A	N/A	DD(40)	319.2625	N/A	N/A	N/A
3	61.2500	N/A	N/A	N/A	EE(41)	325.2625	N/A	N/A	N/A
4	67.2500	N/A	N/A	N/A	FF(42)	331.2750	N/A	N/A	N/A
5	77.2500	N/A	N/A	N/A	GG(43)	337.2625	N/A	N/A	N/A
6	83.2500	8.5	-6.0	14.5	HH(44)	343.2625	N/A	N/A	N/A
A-5(95)	91.2500	N/A	N/A	N/A	II(45)	349.2625	8.1	-5.7	13.8
A-4(96)	97.2500	N/A	N/A	N/A	JJ(46)	355.2625	8.3	-6.3	14.6
A-3(97)	103.2500	8.0	-6.0	14	KK(47)	361.2625	8.5	-6.1	14.6
A-2(98)	109.2750	N/A	N/A	N/A	LL(48)	367.2625	8.8	-5.9	14.7
A-1(99)	115.2750	8.3	-6.4	14.7	MM(49)	373.2625	N/A	N/A	N/A
A(14)	121.2625	N/A	N/A	N/A	NN(50)	379.2625	N/A	N/A	N/A
B(15)	127.2625	N/A	N/A	N/A	OO(51)	385.2625	N/A	N/A	N/A
C(16)	133.2625	N/A	N/A	N/A	PP(52)	391.2625	N/A	N/A	N/A
D(17)	139.2500	N/A	N/A	N/A	QQ(53)	397.2625	N/A	N/A	N/A
E(18)	145.2500	N/A	N/A	N/A	RR(54)	403.2500	8.3	-5.9	14.2
F(19)	151.3210	N/A	N/A	N/A	SS(55)	409.2500	N/A	N/A	N/A
G(20)	157.2500	N/A	N/A	N/A	TT(56)	415.2500	N/A	N/A	N/A
H(21)	163.2500	N/A	N/A	N/A	UU(57)	421.2500	8.1	-6.2	14.3
I(22)	169.2500	N/A	N/A	N/A	VV(58)	427.2500	N/A	N/A	N/A
7	175.2500	N/A	N/A	N/A	WW(59)	433.2500	N/A	N/A	N/A
8	181.2500	N/A	N/A	N/A	XX(60)	439.2500	N/A	N/A	N/A
9	187.2500	N/A	N/A	N/A	YY(61)	445.2500	N/A	N/A	N/A
10	193.2500	N/A	N/A	N/A	ZZ(62)	451.2500	N/A	N/A	N/A
11	199.2500	N/A	N/A	N/A	63	457.2500	N/A	N/A	N/A
12	205.2500	N/A	N/A	N/A	64	463.2500	N/A	N/A	N/A
13	211.2500	N/A	N/A	N/A	65	469.2500	N/A	N/A	N/A
J(23)	217.2500	N/A	N/A	N/A	66	475.2500	N/A	N/A	N/A
K(24)	223.2500	N/A	N/A	N/A	67	481.2500	N/A	N/A	N/A
L(25)	229.2625	N/A	N/A	N/A	68	487.2500	N/A	N/A	N/A
M(26)	235.2625	N/A	N/A	N/A	69	493.2500	N/A	N/A	N/A
N(27)	241.2625	N/A	N/A	N/A	70	499.2500	N/A	N/A	N/A
O(28)	247.2625	N/A	N/A	N/A	71	505.2500	N/A	N/A	N/A
P(29)	253.2625	N/A	N/A	N/A	72	511.2500	N/A	N/A	N/A
Q(30)	259.2625	N/A	N/A	N/A	73	517.2500	N/A	N/A	N/A
R(31)	265.2625	N/A	N/A	N/A	74	523.2500	N/A	N/A	N/A
S(32)	271.2625	N/A	N/A	N/A	75	529.2500	N/A	N/A	N/A
T(33)	277.2625	N/A	N/A	N/A	76	535.2500	N/A	N/A	N/A
U(34)	283.2625	N/A	N/A	N/A	77	541.2500	N/A	N/A	N/A
V(35)	289.2625	N/A	N/A	N/A	78	547.2500	N/A	N/A	N/A
W(36)	295.2625	N/A	N/A	N/A	79	553.2500	N/A	N/A	N/A
AA(37)	301.2625	N/A	N/A	N/A	80	559.2500	N/A	N/A	N/A
BB(38)	307.2625	N/A	N/A	N/A	81	565.2500	N/A	N/A	N/A
CC(39)	313.2625	N/A	N/A	N/A					

Min Channel:-
Max Channel :-

A-3(97)
LL(48)

8:00
8:80

PEAK TO VALLEY:

0.8

TIME WARNER CABLE – SYRACUSE DIVISION

Visual / Aural Level Difference Test (at Headend)

System Name: Carthage / Watertown

HE Location: INDIAN RIVER

Date : 01/14/03

Performed by:

TIM AMES

Time : 13:46:47

Meter / Serial Number :

213783

Chan	Freq (MHz)	Visual Level (dbmV)	Aural Level (dbmV)	SC	Diff (dbmV)	Chan	Freq (MHz)	Visual Level (dbmV)	Aural Level (dbmV)	SC	Diff (dbmV)
2	55.2500	N/A	N/A		N/A	DD(40)	319.2625	N/A	N/A		N/A
3	61.2500	N/A	N/A		N/A	EE(41)	325.2625	N/A	N/A		N/A
4	67.2500	N/A	N/A		N/A	FF(42)	331.2750	N/A	N/A		N/A
5	77.2500	N/A	N/A		N/A	GG(43)	337.2625	N/A	N/A		N/A
6	83.2500	N/A	N/A		N/A	HH(44)	343.2625	N/A	N/A		N/A
A-5(95)	91.2500	N/A	N/A		N/A	II(45)	349.2625	N/A	N/A		N/A
A-4(96)	97.2500	N/A	N/A		N/A	JJ(46)	355.2625	N/A	N/A		N/A
A-3(97)	103.2500	N/A	N/A		N/A	KK(47)	361.2625	N/A	N/A		N/A
A-2(98)	109.2750	N/A	N/A		N/A	LL(48)	367.2625	N/A	N/A		N/A
A-1(99)	115.2750	14.5	0.3		14.2	MM(49)	373.2625	N/A	N/A		N/A
A(14)	121.2625	N/A	N/A		N/A	NN(50)	379.2625	N/A	N/A		N/A
B(15)	127.2625	N/A	N/A		N/A	OO(51)	385.2625	N/A	N/A		N/A
C(16)	133.2625	N/A	N/A		N/A	PP(52)	391.2625	N/A	N/A		N/A
D(17)	139.2500	N/A	N/A		N/A	QQ(53)	397.2625	N/A	N/A		N/A
E(18)	145.2500	N/A	N/A		N/A	RR(54)	403.2500	N/A	N/A		N/A
F(19)	151.3210	N/A	N/A		N/A	SS(55)	409.2500	N/A	N/A		N/A
G(20)	157.2500	N/A	N/A		N/A	TT(56)	415.2500	N/A	N/A		N/A
H(21)	163.2500	N/A	N/A		N/A	UU(57)	421.2500	N/A	N/A		N/A
I(22)	169.2500	N/A	N/A		N/A	VV(58)	427.2500	N/A	N/A		N/A
7	175.2500	N/A	N/A		N/A	WW(59)	433.2500	N/A	N/A		N/A
8	181.2500	N/A	N/A		N/A	XX(60)	439.2500	N/A	N/A		N/A
9	187.2500	N/A	N/A		N/A	YY(61)	445.2500	N/A	N/A		N/A
10	193.2500	N/A	N/A		N/A	ZZ(62)	451.2500	N/A	N/A		N/A
11	199.2500	N/A	N/A		N/A	63	457.2500	N/A	N/A		N/A
12	205.2500	N/A	N/A		N/A	64	463.2500	N/A	N/A		N/A
13	211.2500	N/A	N/A		N/A	65	469.2500	N/A	N/A		N/A
J(23)	217.2500	N/A	N/A		N/A	66	475.2500	N/A	N/A		N/A
K(24)	223.2500	N/A	N/A		N/A	67	481.2500	N/A	N/A		N/A
L(25)	229.2625	N/A	N/A		N/A	68	487.2500	N/A	N/A		N/A
M(26)	235.2625	N/A	N/A		N/A	69	493.2500	N/A	N/A		N/A
N(27)	241.2625	N/A	N/A		N/A	70	499.2500	N/A	N/A		N/A
O(28)	247.2625	N/A	N/A		N/A	71	505.2500	N/A	N/A		N/A
P(29)	253.2625	N/A	N/A		N/A	72	511.2500	N/A	N/A		N/A
Q(30)	259.2625	N/A	N/A		N/A	73	517.2500	N/A	N/A		N/A
R(31)	265.2625	N/A	N/A		N/A	74	523.2500	N/A	N/A		N/A
S(32)	271.2625	N/A	N/A		N/A	75	529.2500	N/A	N/A		N/A
T(33)	277.2625	N/A	N/A		N/A	76	535.2500	N/A	N/A		N/A
U(34)	283.2625	N/A	N/A		N/A	77	541.2500	N/A	N/A		N/A
V(35)	289.2625	N/A	N/A		N/A	78	547.2500	N/A	N/A		N/A
W(36)	295.2625	N/A	N/A		N/A	79	553.0000	N/A	N/A		N/A
AA(37)	301.2625	N/A	N/A		N/A	80	559.0000	N/A	N/A		N/A
BB(38)	307.2625	N/A	N/A		N/A	81	565.0000	N/A	N/A		N/A
CC(39)	313.2625	N/A	N/A		N/A						

Min Channel:-

A-1(99)

14:50

Max Channel:-

A-1(99)

14:50

PEAK TO VALLEY:

0

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual / Aural Level Difference Test (at Headend)

System Name: Carthage / Watertown

HE Location: CLAYTON / CHAUMONT

Date : 01/14/03

Performed by: TIM AMES

Time : 13:57:21

Meter / Serial Number :

213783

CH	FREQ	LEVEL	CH	FREQ	LEVEL	CH	FREQ	LEVEL	CH	FREQ	LEVEL	CH	FREQ	LEVEL
OPEN	(MHz)	(dBmV)	OPEN	(MHz)	(dBmV)	OPEN	(MHz)	(dBmV)	OPEN	(MHz)	(dBmV)	OPEN	(MHz)	(dBmV)
2	55.2500	N/A							DD(40)	319.2625	N/A			
3	61.2500	N/A							EE(41)	325.2625	N/A			
4	67.2500	N/A							FF(42)	331.2750	N/A			
5	77.2500	N/A							GG(43)	337.2625	N/A			
6	83.2500	N/A							HH(44)	343.2625	N/A			
A-5(95)	91.2500	N/A							II(45)	349.2625	N/A			
A-4(96)	97.2500	N/A							JJ(48)	355.2625	N/A			
A-3(97)	103.2500	N/A							KK(47)	361.2625	N/A			
A-2(98)	109.2750	N/A							LL(48)	367.2625	N/A			
A-1(99)	115.2750	16.5							MM(49)	373.2625	N/A			
A(14)	121.2625	N/A							NN(50)	379.2625	N/A			
B(15)	127.2625	N/A							OO(51)	385.2625	N/A			
C(16)	133.2625	N/A							PP(52)	391.2625	N/A			
D(17)	139.2500	N/A							QQ(53)	397.2625	N/A			
E(18)	145.2500	N/A							RR(54)	403.2500	N/A			
F(19)	151.3210	N/A							SS(55)	409.2500	N/A			
G(20)	157.2500	N/A							TT(56)	415.2500	N/A			
H(21)	163.2500	N/A							UU(57)	421.2500	N/A			
I(22)	169.2500	N/A							VV(58)	427.2500	N/A			
7	175.2500	N/A							WW(59)	433.2500	N/A			
8	181.2500	N/A							XX(60)	439.2500	N/A			
9	187.2500	N/A							YY(61)	445.2500	N/A			
10	193.2500	N/A							ZZ(62)	451.2500	N/A			
11	199.2500	N/A							63	457.2500	N/A			
12	205.2500	N/A							64	463.2500	N/A			
13	211.2500	N/A							65	469.2500	N/A			
J(23)	217.2500	N/A							66	475.2500	N/A			
K(24)	223.2500	N/A							67	481.2500	N/A			
L(25)	229.2625	N/A							68	487.2500	N/A			
M(26)	235.2625	N/A							69	493.2500	N/A			
N(27)	241.2625	N/A							70	499.2500	N/A			
O(28)	247.2625	N/A							71	505.2500	N/A			
P(29)	253.2625	N/A							72	511.2500	N/A			
Q(30)	259.2625	N/A							73	517.2500	N/A			
R(31)	265.2625	N/A							74	523.2500	N/A			
S(32)	271.2625	N/A							75	529.2500	N/A			
T(33)	277.2625	N/A							76	535.2500	N/A			
U(34)	283.2625	N/A							77	541.2500	N/A			
V(35)	289.2625	N/A							78	547.2500	N/A			
W(36)	295.2625	N/A							79	553.0000	N/A			
AA(37)	301.2625	N/A							80	559.0000	N/A			
BB(38)	307.2625	N/A							81	565.0000	N/A			
CC(39)	313.2625	N/A												

Min Channel:-

A-1(99)

16.50

Max Channel :-

A-1(99)

16.50

PEAK TO VALLEY:

0

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual / Aural Level Difference Test (at Headend)

System Name: Carthage / Watertown

HE Location: ADAMS / HENDERSON

Date : 01/14/03

Performed by: TIM AMES

Time : 16:42:32

Meter / Serial Number :

213783

Chan	Freq	Visual Level	Aural Level	SC	Diff	Chan	Freq	Visual Level	Aural Level	SC	Diff
2	55.2500	N/A	N/A		N/A	DD(40)	319.2625	N/A	N/A		N/A
3	61.2500	N/A	N/A		N/A	EE(41)	325.2625	N/A	N/A		N/A
4	67.2500	N/A	N/A		N/A	FF(42)	331.2750	N/A	N/A		N/A
5	77.2500	N/A	N/A		N/A	GG(43)	337.2625	N/A	N/A		N/A
6	83.2500	N/A	N/A		N/A	HH(44)	343.2625	N/A	N/A		N/A
A-5(95)	91.2500	N/A	N/A		N/A	II(45)	349.2625	N/A	N/A		N/A
A-4(96)	97.2500	N/A	N/A		N/A	JJ(46)	355.2625	N/A	N/A		N/A
A-3(97)	103.2500	N/A	N/A		N/A	KK(47)	361.2625	N/A	N/A		N/A
A-2(98)	109.2750	N/A	N/A		N/A	LL(48)	367.2625	N/A	N/A		N/A
A-1(99)	115.2750	12.5	-2.2		14.7	MM(49)	373.2625	N/A	N/A		N/A
A(14)	121.2625	N/A	N/A		N/A	NN(50)	379.2625	N/A	N/A		N/A
B(15)	127.2625	N/A	N/A		N/A	OO(51)	385.2625	N/A	N/A		N/A
C(16)	133.2625	N/A	N/A		N/A	PP(52)	391.2625	N/A	N/A		N/A
D(17)	139.2500	N/A	N/A		N/A	QQ(53)	397.2625	N/A	N/A		N/A
E(18)	145.2500	N/A	N/A		N/A	RR(54)	403.2500	N/A	N/A		N/A
F(19)	151.3210	N/A	N/A		N/A	SS(55)	409.2500	N/A	N/A		N/A
G(20)	157.2500	N/A	N/A		N/A	TT(56)	415.2500	N/A	N/A		N/A
H(21)	163.2500	N/A	N/A		N/A	UU(57)	421.2500	N/A	N/A		N/A
I(22)	169.2500	N/A	N/A		N/A	VV(58)	427.2500	N/A	N/A		N/A
7	175.2500	N/A	N/A		N/A	WW(59)	433.2500	N/A	N/A		N/A
8	181.2500	N/A	N/A		N/A	XX(60)	439.2500	N/A	N/A		N/A
9	187.2500	N/A	N/A		N/A	YY(61)	445.2500	N/A	N/A		N/A
10	193.2500	N/A	N/A		N/A	ZZ(62)	451.2500	N/A	N/A		N/A
11	199.2500	N/A	N/A		N/A	63	457.2500	N/A	N/A		N/A
12	205.2500	N/A	N/A		N/A	64	463.2600	N/A	N/A		N/A
13	211.2500	N/A	N/A		N/A	65	469.2500	N/A	N/A		N/A
J(23)	217.2500	N/A	N/A		N/A	66	475.2500	N/A	N/A		N/A
K(24)	223.2500	N/A	N/A		N/A	67	481.2500	N/A	N/A		N/A
L(25)	229.2625	N/A	N/A		N/A	68	487.2500	N/A	N/A		N/A
M(26)	235.2625	N/A	N/A		N/A	69	493.2500	N/A	N/A		N/A
N(27)	241.2625	N/A	N/A		N/A	70	499.2500	N/A	N/A		N/A
O(28)	247.2625	N/A	N/A		N/A	71	505.2500	N/A	N/A		N/A
P(29)	253.2625	N/A	N/A		N/A	72	511.2500	N/A	N/A		N/A
Q(30)	259.2625	N/A	N/A		N/A	73	517.2500	N/A	N/A		N/A
R(31)	265.2625	N/A	N/A		N/A	74	523.2500	N/A	N/A		N/A
S(32)	271.2625	N/A	N/A		N/A	75	529.2500	N/A	N/A		N/A
T(33)	277.2625	N/A	N/A		N/A	76	535.2500	N/A	N/A		N/A
U(34)	283.2625	N/A	N/A		N/A	77	541.2500	N/A	N/A		N/A
V(35)	289.2625	N/A	N/A		N/A	78	547.2500	N/A	N/A		N/A
W(36)	295.2625	N/A	N/A		N/A	79	553.0000	N/A	N/A		N/A
AA(37)	301.2625	N/A	N/A		N/A	80	559.0000	N/A	N/A		N/A
BB(38)	307.2625	N/A	N/A		N/A	81	565.0000	N/A	N/A		N/A
CC(39)	313.2625	N/A	N/A		N/A						

Min Channel:-
Max Channel:-

A-1(99)
A-1(99)

12:50
12:50

PEAK TO VALLEY:

0

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual / Aural Level Difference Test (at Headend)

System Name: Carthage / Watertown

HE Location: LOWVILLE / ADAMS

Date : 01/14/03

Performed by:

TIM AMES

Time : 13:27:04

Meter / Serial Number :

213783

Chan	Freq (MHz)	Visual Level (dbmV)	Aural Level (dbmV)	SC (S)	Dif (dbmV)	Chan	Freq (MHz)	Visual Level (dbmV)	Aural Level (dbmV)	SC (S)	Dif (dbmV)
2	55.2500	N/A	N/A		N/A	DD(40)	319.2625	N/A	N/A		N/A
3	61.2500	N/A	N/A		N/A	EE(41)	325.2625	N/A	N/A		N/A
4	67.2500	N/A	N/A		N/A	FF(42)	331.2750	N/A	N/A		N/A
5	77.2500	N/A	N/A		N/A	GG(43)	337.2625	N/A	N/A		N/A
6	83.2500	N/A	N/A		N/A	HH(44)	343.2625	N/A	N/A		N/A
A-5(95)	91.2500	N/A	N/A		N/A	II(45)	349.2625	N/A	N/A		N/A
A-4(96)	97.2500	N/A	N/A		N/A	JJ(46)	355.2625	N/A	N/A		N/A
A-3(97)	103.2500	N/A	N/A		N/A	KK(47)	361.2625	N/A	N/A		N/A
A-2(98)	109.2750	N/A	N/A		N/A	LL(48)	367.2625	N/A	N/A		N/A
A-1(99)	115.2750	N/A	N/A		N/A	MM(49)	373.2625	N/A	N/A		N/A
A(14)	121.2625	N/A	N/A		N/A	NN(50)	379.2625	N/A	N/A		N/A
B(15)	127.2625	N/A	N/A		N/A	OO(51)	385.2625	N/A	N/A		N/A
C(16)	133.2625	N/A	N/A		N/A	PP(52)	391.2625	N/A	N/A		N/A
D(17)	139.2500	N/A	N/A		N/A	QQ(53)	397.2625	N/A	N/A		N/A
E(18)	145.2500	N/A	N/A		N/A	RR(54)	403.2500	N/A	N/A		N/A
F(19)	151.3210	N/A	N/A		N/A	SS(55)	409.2500	N/A	N/A		N/A
G(20)	157.2500	N/A	N/A		N/A	TT(56)	415.2500	N/A	N/A		N/A
H(21)	163.2500	N/A	N/A		N/A	UU(57)	421.2500	N/A	N/A		N/A
I(22)	169.2500	N/A	N/A		N/A	VV(58)	427.2500	N/A	N/A		N/A
7	175.2500	N/A	N/A		N/A	WW(59)	433.2500	N/A	N/A		N/A
8	181.2500	N/A	N/A		N/A	XX(60)	439.2500	N/A	N/A		N/A
9	187.2500	N/A	N/A		N/A	YY(61)	445.2500	N/A	N/A		N/A
10	193.2500	N/A	N/A		N/A	ZZ(62)	451.2500	N/A	N/A		N/A
11	199.2500	N/A	N/A		N/A	63	457.2500	N/A	N/A		N/A
12	205.2500	N/A	N/A		N/A	64	463.2500	N/A	N/A		N/A
13	211.2500	N/A	N/A		N/A	65	469.2500	N/A	N/A		N/A
J(23)	217.2500	N/A	N/A		N/A	66	475.2500	N/A	N/A		N/A
K(24)	223.2500	N/A	N/A		N/A	67	481.2500	N/A	N/A		N/A
L(25)	229.2625	N/A	N/A		N/A	68	487.2500	N/A	N/A		N/A
M(26)	235.2625	N/A	N/A		N/A	69	493.2500	N/A	N/A		N/A
N(27)	241.2625	N/A	N/A		N/A	70	499.2500	N/A	N/A		N/A
O(28)	247.2625	N/A	N/A		N/A	71	505.2500	N/A	N/A		N/A
P(29)	253.2625	N/A	N/A		N/A	72	511.2500	N/A	N/A		N/A
Q(30)	259.2625	N/A	N/A		N/A	73	517.2500	N/A	N/A		N/A
R(31)	265.2625	N/A	N/A		N/A	74	523.2500	N/A	N/A		N/A
S(32)	271.2625	N/A	N/A		N/A	75	529.2500	N/A	N/A		N/A
T(33)	277.2625	N/A	N/A		N/A	76	535.2500	16.1	0.6		15.5
U(34)	283.2625	N/A	N/A		N/A	77	541.2500	16.3	1.4		14.9
V(35)	289.2625	N/A	N/A		N/A	78	547.2500	N/A	N/A		N/A
W(36)	295.2625	N/A	N/A		N/A	79	553.2500	N/A	N/A		N/A
AA(37)	301.2625	N/A	N/A		N/A	80	559.2500	N/A	N/A		N/A
BB(38)	307.2625	16.5	2.2		14.3	81	565.2500	N/A	N/A		N/A
CC(39)	313.2625	N/A	N/A		N/A						

Min Channel:-
Max Channel :-

76
BB(38)

16.10
16.50

PEAK TO VALLEY:

0.4

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual / Aural Level Difference Test (at Headend)

System Name: Carthage / Watertown

HE Location: LOWVILLE / LEWIS

Date : 01/15/03

Performed by:

MARK FAVRET

Time : 09:18:59

Meter / Serial Number :

213783

Chan	Freq MHz	Visual Level dBmV	Aural Level dBmV	SC dB	Dif. dBmV	Chan	Freq MHz	Visual Level dBmV	Aural Level dBmV	SC dB	Dif. dBmV
2	55.2500	N/A	N/A		N/A	DD(40)	319.2625	N/A	N/A		N/A
3	61.2500	N/A	N/A		N/A	EE(41)	325.2625	N/A	N/A		N/A
4	67.2500	N/A	N/A		N/A	FF(42)	331.2750	N/A	N/A		N/A
5	77.2500	N/A	N/A		N/A	GG(43)	337.2625	N/A	N/A		N/A
6	83.2500	N/A	N/A		N/A	HH(44)	343.2625	N/A	N/A		N/A
A-5(95)	91.2500	N/A	N/A		N/A	II(45)	349.2625	N/A	N/A		N/A
A-4(96)	87.2500	N/A	N/A		N/A	JJ(46)	355.2625	N/A	N/A		N/A
A-3(97)	103.2500	N/A	N/A		N/A	KK(47)	361.2625	N/A	N/A		N/A
A-2(98)	109.2750	N/A	N/A		N/A	LL(48)	367.2625	N/A	N/A		N/A
A-1(99)	115.2750	12.6	-1.6		14.2	MM(49)	373.2625	N/A	N/A		N/A
A(14)	121.2625	N/A	N/A		N/A	NN(50)	379.2625	N/A	N/A		N/A
B(15)	127.2625	N/A	N/A		N/A	OO(51)	385.2625	N/A	N/A		N/A
C(16)	133.2625	N/A	N/A		N/A	PP(52)	391.2625	N/A	N/A		N/A
D(17)	139.2500	N/A	N/A		N/A	QQ(53)	397.2625	N/A	N/A		N/A
E(18)	145.2500	N/A	N/A		N/A	RR(54)	403.2500	N/A	N/A		N/A
F(19)	151.3210	N/A	N/A		N/A	SS(55)	409.2500	N/A	N/A		N/A
G(20)	157.2500	N/A	N/A		N/A	TT(56)	415.2500	N/A	N/A		N/A
H(21)	163.2500	N/A	N/A		N/A	UU(57)	421.2500	N/A	N/A		N/A
I(22)	169.2500	N/A	N/A		N/A	VV(58)	427.2500	N/A	N/A		N/A
7	175.2500	N/A	N/A		N/A	WW(59)	433.2500	N/A	N/A		N/A
8	181.2500	N/A	N/A		N/A	XX(60)	439.2500	N/A	N/A		N/A
9	187.2500	N/A	N/A		N/A	YY(61)	445.2500	N/A	N/A		N/A
10	193.2500	N/A	N/A		N/A	ZZ(62)	451.2500	N/A	N/A		N/A
11	199.2500	N/A	N/A		N/A	63	457.2500	N/A	N/A		N/A
12	205.2500	N/A	N/A		N/A	64	463.2500	N/A	N/A		N/A
13	211.2500	N/A	N/A		N/A	65	469.2500	N/A	N/A		N/A
J(23)	217.2500	N/A	N/A		N/A	66	475.2500	N/A	N/A		N/A
K(24)	223.2500	N/A	N/A		N/A	67	481.2500	N/A	N/A		N/A
L(25)	229.2625	N/A	N/A		N/A	68	487.2500	N/A	N/A		N/A
M(26)	235.2625	N/A	N/A		N/A	69	493.2500	N/A	N/A		N/A
N(27)	241.2625	N/A	N/A		N/A	70	499.2500	N/A	N/A		N/A
O(28)	247.2625	N/A	N/A		N/A	71	505.2500	N/A	N/A		N/A
P(29)	253.2625	N/A	N/A		N/A	72	511.2500	N/A	N/A		N/A
Q(30)	259.2625	N/A	N/A		N/A	73	517.2500	N/A	N/A		N/A
R(31)	265.2625	N/A	N/A		N/A	74	523.2500	N/A	N/A		N/A
S(32)	271.2625	N/A	N/A		N/A	75	529.2500	N/A	N/A		N/A
T(33)	277.2625	N/A	N/A		N/A	76	535.2500	N/A	N/A		N/A
U(34)	283.2625	N/A	N/A		N/A	77	541.2500	N/A	N/A		N/A
V(35)	289.2625	N/A	N/A		N/A	78	547.2500	N/A	N/A		N/A
W(36)	295.2625	N/A	N/A		N/A	79	553.2500	N/A	N/A		N/A
AA(37)	301.2625	N/A	N/A		N/A	80	559.2500	N/A	N/A		N/A
BB(38)	307.2625	N/A	N/A		N/A	81	565.2500	N/A	N/A		N/A
CC(39)	313.2625	N/A	N/A		N/A						

Min Channel:-

A-1(99)

12.60

Max Channel:-

A-1(99)

12.60

PEAK TO VALLEY:

0

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name: Carthage / Watertown

System Test Point # 1

Hub Name: CARTHAGE

Location / Community: RT 3 / CARTHAGE

Map Number: 34-30

Pole Number: 102 over 97

D.T. Value: 23-4

OR Number: 516

GNA Cascade: 5

LE Cascade: 1

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: RT. 3 / CARTHAGE
Date : 01/30/03
Time : 15:11

Chan	Freq (MHz)	Visual Level (dbmV)	Aural Level (dbmV)	SC (dB)	Diff (dbmV)	Chan	Freq (MHz)	Visual Level (dbmV)	Aural Level (dbmV)	SC (dB)	Diff (dbmV)
2	55.2500	10.1	-4.3		14.4	DD(40)	319.2625	14.6	0.1		14.5
3	61.2500	10.9	-3.8		14.7	EE(41)	325.2625	13.9	-1.0		14.9
4	67.2500	10.8	-2.8		13.6	FF(42)	331.2750	14.9	0.0		14.9
5	77.2500	10.0	-4.4		14.4	GG(43)	337.2625	14.6	0.0		14.6
6	83.2500	10.3	-4.3		14.6	HH(44)	343.2625	13.5	0.2		13.3
A-5(95)	91.2500	N/A	N/A		N/A	II(45)	349.2625	13.7	-0.4		14.1
A-4(96)	97.2500	10.6	-3.5		14.1	JJ(46)	355.2625	14.2	-0.6		14.8
A-3(97)	103.2500	N/A	N/A		N/A	KK(47)	361.2625	14.5	0.1		14.4
A-2(98)	109.2750	N/A	N/A		N/A	LL(48)	367.2625	14.2	-1.0		15.2
A-1(99)	115.2750	10.6	-3.8		14.4	MM(49)	373.2625	13.0	-1.4		14.4
A(14)	121.2625	12.0	-2.8		14.8	NN(50)	379.2625	13.7	-0.8		14.5
B(15)	127.2625	11.4	-3.2		14.6	OO(51)	385.2625	14.2	-0.7		14.9
C(16)	133.2625	12.5	-2.4		14.9	PP(52)	391.2625	12.8	-1.7		14.5
D(17)	139.2500	12.7	-1.6		14.3	QQ(53)	397.2625	12.7	-2.3		15.0
E(18)	145.2500	13.1	-1.3		14.4	RR(54)	403.2500	12.4	-2.3		14.7
F(19)	151.3210	12.6	-1.6		14.2	SS(55)	409.2500	11.9	-3.3		15.2
G(20)	157.2500	12.7	-0.3		13.0	TT(56)	415.2500	12.4	-1.9		14.3
H(21)	163.2500	13.1	-0.9		14.0	UU(57)	421.2500	12.7	-2.7		15.4
I(22)	169.2500	13.4	0.0		13.4	VV(58)	427.2500	12.4	-2.0		14.4
7	175.2500	13.0	-0.1		13.1	WW(59)	433.2500	12.0	-3.5		15.5
8	181.2500	13.2	-1.5		14.7	XX(60)	439.2500	12.6	-0.6		13.2
9	187.2500	13.2	-1.1		14.3	YY(61)	445.2500	12.4	-2.6		15.0
10	193.2500	13.9	0.4		13.5	ZZ(62)	451.2500	11.3	-3.6		14.9
11	199.2500	13.3	-0.9		14.2	63	457.2500	11.4	-3.1		14.5
12	205.2500	13.4	-2.0		15.4	64	463.2500	11.7	-2.4		14.1
13	211.2500	13.8	-0.3		14.1	65	469.2500	11.6	-2.5		14.1
J(23)	217.2500	13.1	-1.7		14.8	66	475.2500	11.8	-2.5		14.3
K(24)	223.2500	13.1	-1.4		14.5	67	481.2500	11.8	-3.2		15.0
L(25)	229.2625	13.2	-1.7		14.9	68	487.2500	11.2	-3.4		14.6
M(26)	235.2625	13.2	-1.5		14.7	69	493.2500	11.4	-3.4		14.8
N(27)	241.2625	13.2	-1.3		14.5	70	499.2500	11.1	-3.7		14.8
O(28)	247.2625	13.6	-1.1		14.7	71	505.2500	11.9	-3.0		14.9
P(29)	253.2625	13.8	-1.1		14.9	72	511.2500	11.4	-2.3		13.7
Q(30)	259.2625	13.9	-0.4		14.3	73	517.2500	11.7	-2.9		14.6
R(31)	265.2625	13.6	-1.2		14.8	74	523.2500	11.7	-2.5		14.2
S(32)	271.2625	14.5	0.8		13.7	75	529.2500	11.8	-3.3		15.1
T(33)	277.2625	14.8	0.4		14.4	76	535.2500	N/A	N/A		N/A
U(34)	283.2625	13.8	-0.5		14.3	77	541.2500	N/A	N/A		N/A
V(35)	289.2625	14.2	-0.6		14.8	78	547.2500	11.8	-3.3		15.1
W(36)	295.2625	14.2	-0.8		15.0	79	553.0000	N/A	N/A		N/A
AA(37)	301.2625	13.7	-1.3		15.0	80	559.0000	N/A	N/A		N/A
BB(38)	307.2625	13.9	-0.7		14.6	81	565.0000	N/A	N/A		N/A
CC(39)	313.2625	14.1	-0.9		15.0						

Min Channel :
 Max Channel :

5
 FF(42)

10
 14.9

PEAK TO VALLEY: 4.90

TIME WARNER CABLE – SYRACUSE DIVISION

IN CHANNEL RESPONSE Test CARRIER - TO - NOISE Test COHERENT DISTURBANCES Test LOW FREQUENCY DISTURBANCES Test

System Name: Carthage / Watertown

Date: January 15, 2003

Test Performed By: MARK FAVRET

Location: RT 3 / CARTHAGE

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	Channel Response (μ / dB)	C/N Ratio (dB)	Distortions (dBc) CTB	CSO	HUM
3	0.7	48.1	66.4	65.7	0.8
12	0.6	48.2	66.9	64.1	
15	0.4	48.5	67.0	67.4	
26	0.3	48.3	68.4	66.8	
34	0.4	47.4	67.8	65.4	
41	0.3	48.0	68.2	68.1	
50	0.7	48.2	64.7	61.6	
62	0.2	47.3	67.0	68.5	
78	0.2	47.2	60.8	60.2	

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 15, 2003

Test Performed By: MARK FAVRET

Location: RT. 3 / CARTHAGE

(SEE THE ATTACHED SWEEP TRACES)

14:31:07 JAN 15, 2003

CHANNEL 3 (STD)

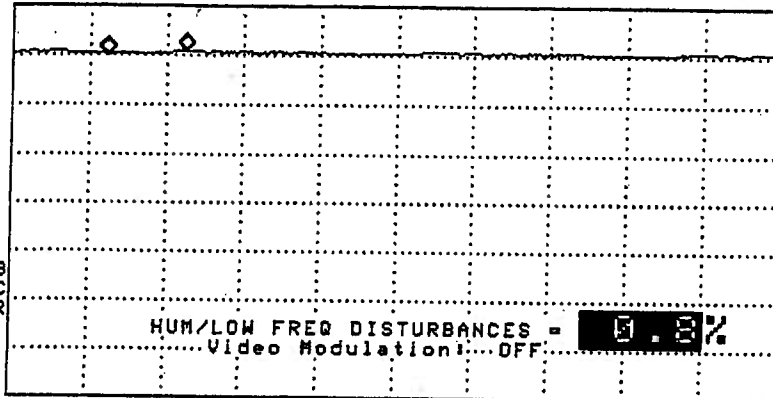
REF 11.0 dBmV AT 10 dB

MKR Δ -5.1250 msec
-0.08 dB

PAUSE

PEAK
LOG
1
dB/

WA SB
SC FC
CORR



MORE
INFO

MAIN
MENU

START 61.238 MHz

#RES BW 1.0 MHz

#VBW 1 kHz

STOP 61.238 MHz

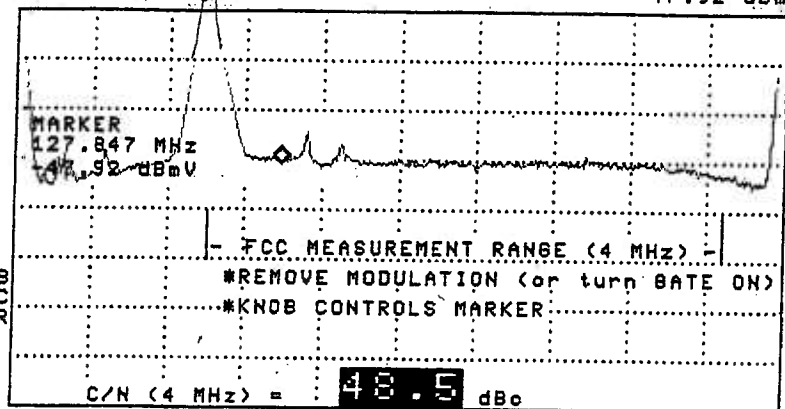
#SMP 50.0 msec

14:39:08 JAN 15, 2003

CHANNEL 35 (STD)
REF -17.0 dBmV #AT 0 dB

MKR 127.847 MHz
-47.92 dBmV

SMPL
LOG
10
dB/



START 125.762 MHz #RES BW 30 kHz #VBW 100 Hz STOP 131.762 MHz SWP 6.00 sec

CHNL
GATE
ON OFF
AVERAGE
ON OFF

MORE
INFO
More

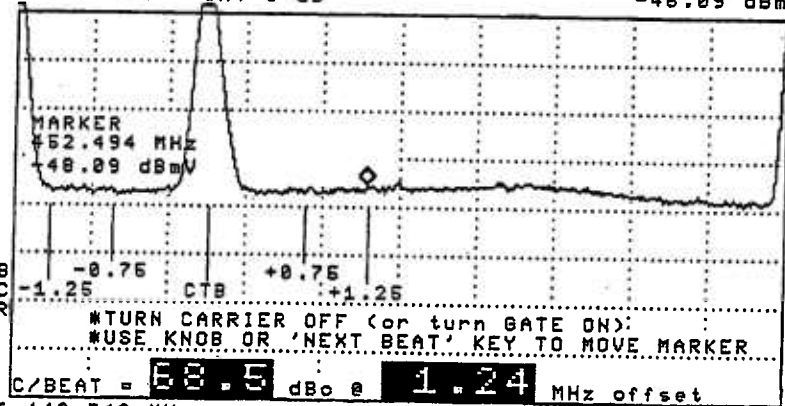
MAIN
MENU

15:04:19 JAN 15, 2003

CHANNEL 32 (STD)
REF -19.0 dBmV #AT 0 dB

MKR 452.494 MHz
-48.09 dBmV

SMPL
LOG
10
dB/



START 449.749 MHz #RES BW 30 kHz #VBW 100 Hz STOP 455.749 MHz SWP 6.00 sec

CHNL
GATE
ON OFF
AVERAGE
ON OFF

ZOOM &
MEASURE

NEXT
BEAT

More

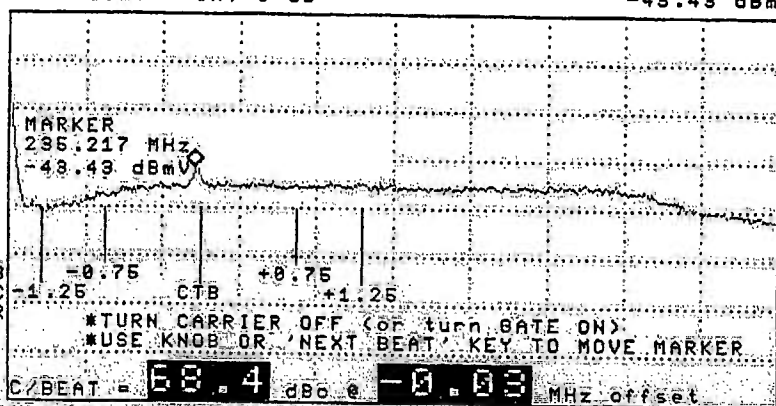
MAIN
MENU

14:43:26 JAN 15, 2003

CHANNEL 33 (STD)
REF -11.8 dBmV #AT 0 dB

MKR 295.217 MHz
-43.43 dBmV

SMPL
LOG
10
dB/



START 293.762 MHz #RES BW 30 kHz #VBW 100 Hz STOP 299.762 MHz SWP 6.00 sec

CHNL
GATE
ON OFF
AVERAGE
ON OFF

ZOOM &
MEASURE

NEXT
BEAT

More

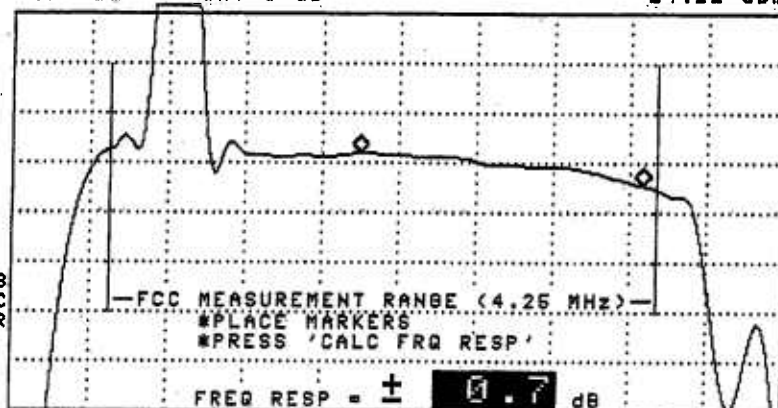
MAIN
MENU

15:06:09 JAN 15, 2003
CHANNEL 3 (STD)
REF -7.2 dBmV #AT 0 dB

MKR 64.905 MHz
-14.11 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 60.000 MHz
#RES BW 100 kHz

#VBW 3 MHz

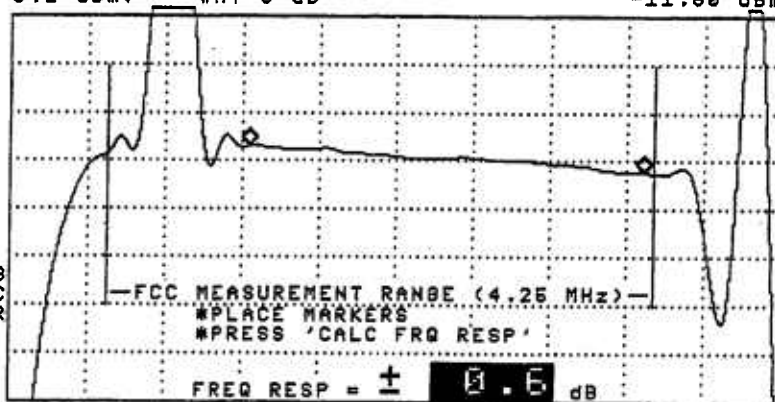
STOP 66.000 MHz
SWP 20.0 msec

15:07:05 JAN 15, 2003
CHANNEL 3 (STD)
REF -5.1 dBmV #AT 0 dB

MKR 208.935 MHz
-11.60 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 204.000 MHz
#RES BW 100 kHz

#VBW 3 MHz

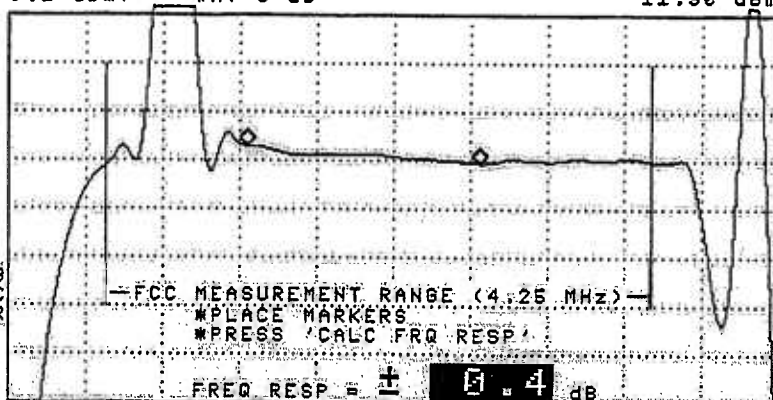
STOP 210.000 MHz
SWP 20.0 msec

15:08:13 JAN 15, 2003
CHANNEL 3 (STD)
REF -5.2 dBmV #AT 0 dB

MKR 129.675 MHz
-11.30 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 126.000 MHz
#RES BW 100 kHz

#VBW 3 MHz

STOP 132.000 MHz
SWP 20.0 msec

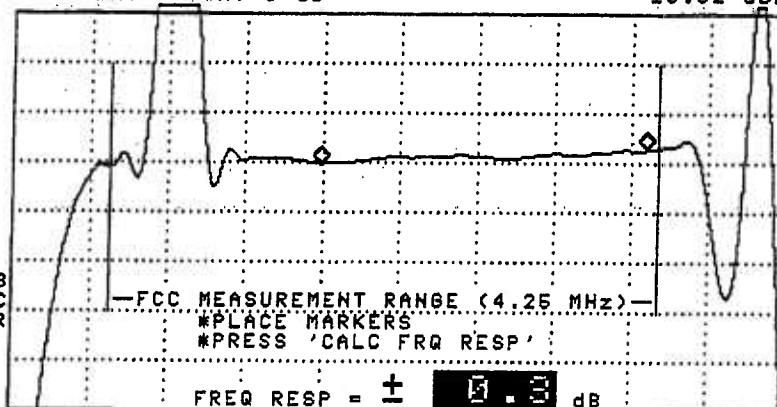
15:09:15 JAN 15, 2008

CHANNEL 36 (STD)
REF -4.8 dBmV #AT 0 dB

MKR 296.985 MHz
-10.32 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 234.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 240.000 MHz SWP 20.0 msec

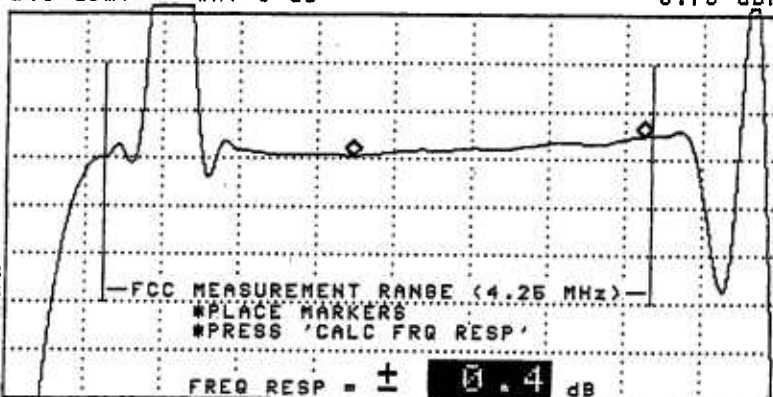
15:10:26 JAN 15, 2008

CHANNEL 36 (STD)
REF -2.9 dBmV #AT 0 dB

MKR 284.685 MHz
-8.78 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 282.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 288.000 MHz SWP 20.0 msec

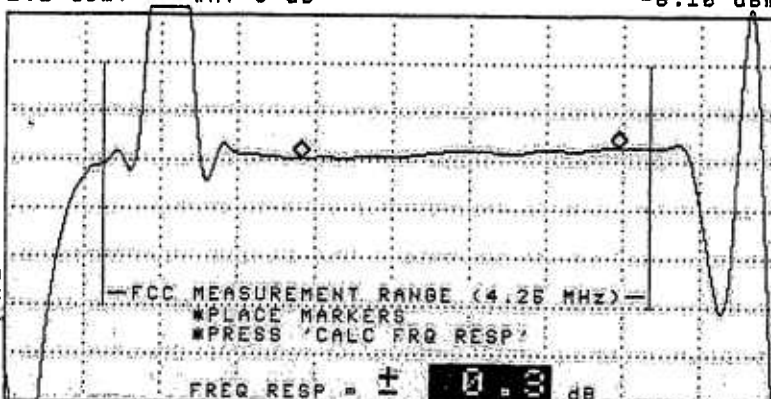
15:11:29 JAN 15, 2008

CHANNEL 36 (STD)
REF -2.2 dBmV #AT 0 dB

MKR 326.295 MHz
-8.10 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



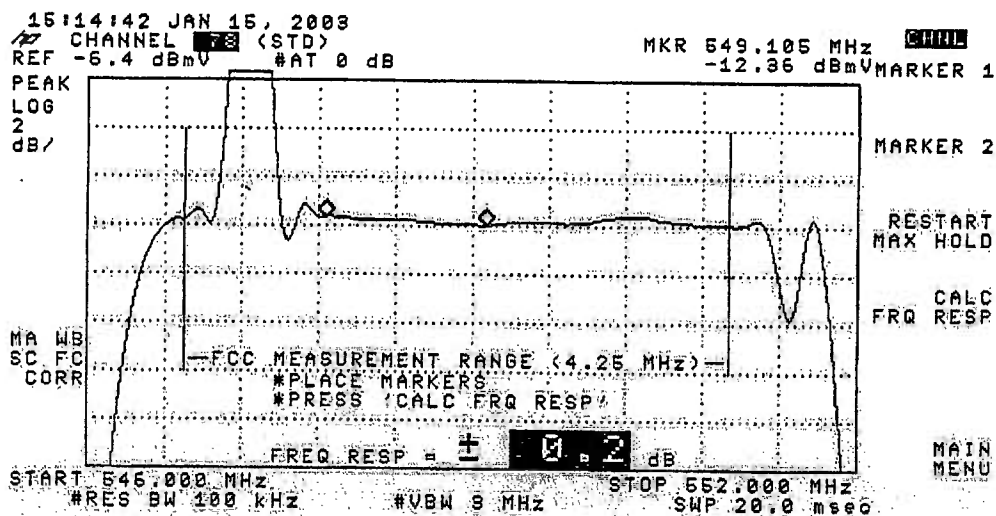
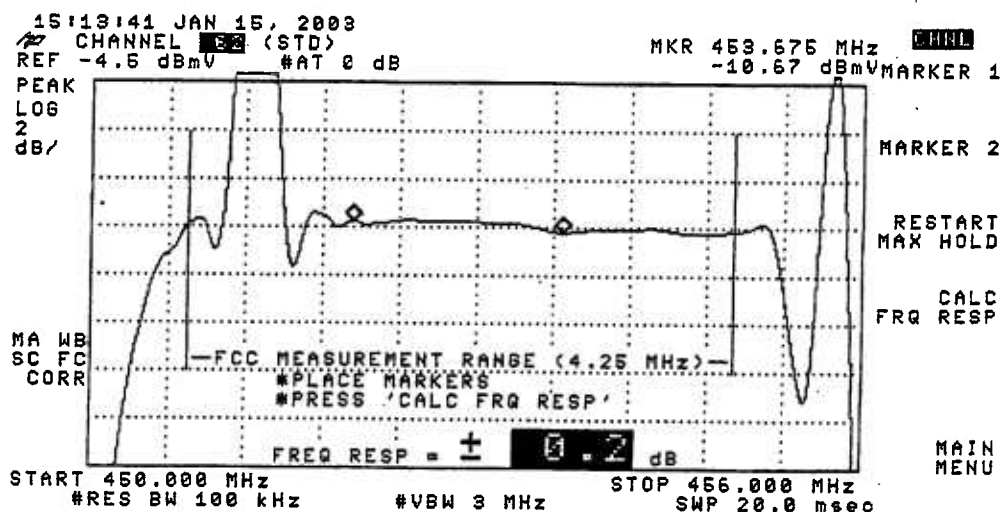
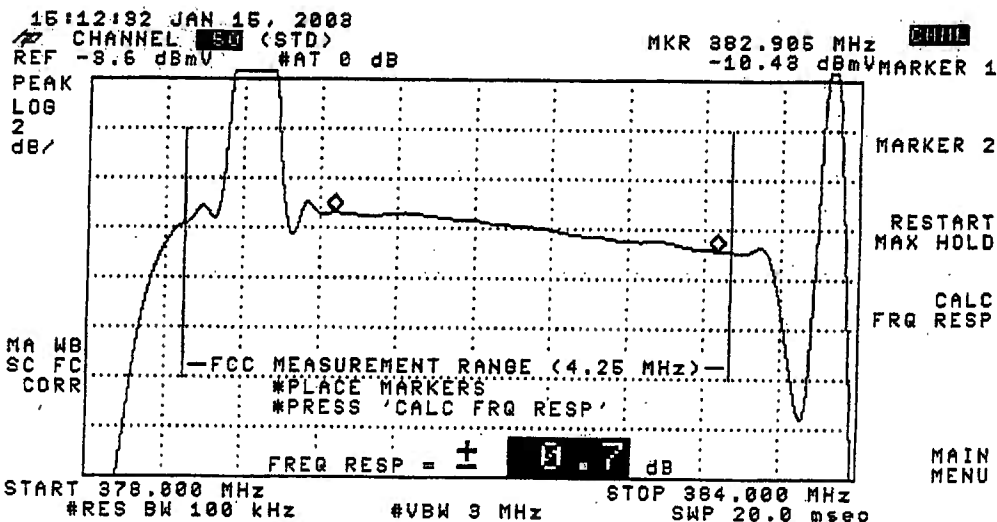
MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 324.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 330.000 MHz SWP 20.0 msec



TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

RT. 3 / CARTHAGE

Date:

01/30/03

Performed by:

DENIS RHUBART

Meter Serial Number:

213783

Chan	Freq (MHz)	Time				Var	Chan	Freq (MHz)	Time				Var
		24	16	16	21				24	16	16	21	
		15:11	21:11	3:11	9:11				15:11	21:11	3:11	9:11	
Visual Level (dBmV)		Visual Level (dBmV)				Visual Level (dBmV)		Visual Level (dBmV)					
2	55.2500	10.1	11.8	11.5	11.3	1.7	DD(40)	319.2625	14.6	14.7	15.2	14.4	0.8
3	61.2500	10.9	12.3	12.0	11.6	1.4	EE(41)	325.2625	13.9	14.3	14.8	14.3	0.9
4	67.2500	10.8	10.4	10.4	9.8	1	FF(42)	331.2750	14.9	14.8	15.8	15.4	1
5	77.2500	10.0	10.3	10.9	10.8	0.9	GG(43)	337.2625	14.6	15.0	15.9	14.9	1.3
6	83.2500	10.3	10.6	10.9	10.4	0.6	HH(44)	343.2625	13.5	14.0	15.1	14.5	1.6
A-5(95)	91.2500						II(45)	349.2625	13.7	14.7	15.5	14.6	1.8
A-4(96)	97.2500	10.6	10.8	10.6	9.6	1.2	JJ(46)	355.2625	14.2	14.8	15.7	14.9	1.5
A-3(97)	103.2500						KK(47)	361.2625	14.5	15.4	16.2	15.5	1.7
A-2(98)	109.2750						LL(48)	367.2625	14.2	14.6	15.3	14.5	1.1
A-1(99)	115.2750	10.6	11.0	11.4	11.0	0.8	MM(49)	373.2625	13.0	14.0	14.0	13.1	1
A(14)	121.2625	12.0	12.7	13.1	11.8	1.3	NN(50)	379.2625	13.7	14.5	14.7	14.1	1
B(15)	127.2625	11.4	12.9	12.7	12.0	1.5	OO(51)	385.2625	14.2	14.6	14.1	13.6	1
C(16)	133.2625	12.5	13.6	13.4	12.5	1.1	PP(52)	391.2625	12.8	13.5	13.4	13.1	0.7
D(17)	139.2500	12.7	13.4	13.1	12.0	1.4	QQ(53)	397.2625	12.7	13.6	13.4	13.0	0.9
E(18)	145.2500	13.1	14.0	13.6	12.6	1.4	RR(54)	403.2500	12.4	13.2	12.9	12.4	0.8
F(19)	151.3210	12.6	14.1	13.9	13.8	1.5	SS(55)	409.2500	11.9	12.9	13.2	12.6	1.3
G(20)	157.2500	12.7	13.9	13.6	12.5	1.4	TT(56)	415.2500	12.4	13.2	12.8	12.7	0.8
H(21)	163.2500	13.1	14.3	13.9	12.9	1.4	UU(57)	421.2500	12.7	13.7	13.6	13.5	1
I(22)	169.2500	13.4	14.6	14.1	12.9	1.7	VV(58)	427.2500	12.4	12.8	12.7	12.3	0.5
7	175.2500	13.0	14.3	14.3	13.2	1.3	WW(59)	433.2500	12.0	13.8	13.7	13.2	1.8
8	181.2500	13.2	14.8	14.3	13.2	1.6	XX(60)	439.2500	12.6	13.0	12.7	11.9	1.1
9	187.2500	13.2	14.9	14.5	13.2	1.7	YY(61)	445.2500	12.4	13.8	13.9	13.4	1.5
10	193.2500	13.9	14.8	14.4	13.0	1.8	ZZ(62)	451.2500	11.3	12.9	12.4	12.3	1.6
11	199.2500	13.3	14.7	14.3	13.4	1.4	63	457.2500	11.4	12.6	12.3	11.8	1.2
12	205.2500	13.4	13.5	13.6	12.6	1	64	463.2500	11.7	12.7	12.4	11.9	1
13	211.2500	13.8	14.8	14.5	13.4	1.4	65	469.2500	11.6	12.3	11.9	11.6	0.7
J(23)	217.2500	13.1	14.2	13.9	12.8	1.4	66	475.2500	11.8	12.0	11.7	11.1	0.9
K(24)	223.2500	13.1	13.2	12.9	12.1	1.1	67	481.2500	11.8	11.0	10.8	10.6	1.3
L(25)	229.2625	13.2	13.3	13.3	12.5	0.8	68	487.2500	11.2	13.1	12.9	12.5	1.9
M(26)	235.2625	13.2	13.6	13.2	12.2	1.4	69	493.2500	11.4	12.2	11.5	10.9	1.3
N(27)	241.2625	13.2	13.7	13.4	11.8	1.9	70	499.2500	11.1	12.7	12.5	11.8	1.6
O(28)	247.2625	13.6	13.8	13.2	11.9	1.9	71	505.2500	11.9	12.4	12.4	11.7	0.7
P(29)	253.2625	13.8	14.7	14.1	12.9	1.8	72	511.2500	11.4	12.7	12.2	11.5	1.3
Q(30)	259.2625	13.9	14.2	14.0	12.6	1.6	73	517.2500	11.7	12.3	12.3	11.4	0.9
R(31)	265.2625	13.6	14.3	13.9	12.9	1.4	74	523.2500	11.7	12.2	12.1	11.6	0.6
S(32)	271.2625	14.5	15.1	14.8	14.1	1	75	529.2500	11.8	12.6	12.4	11.9	0.8
T(33)	277.2625	14.8	15.5	14.8	13.9	1.6	76	535.2500					
U(34)	283.2625	13.8	14.9	14.8	13.8	1.1	77	541.2500					
V(35)	289.2625	14.2	14.8	14.5	13.6	1.2	78	547.2500	11.8	12.9	12.8	11.7	1.2
W(36)	295.2625	14.2	13.9	13.9	13.8	0.4	79	553.0000					
AA(37)	301.2625	13.7	14.5	14.7	13.7	1	80	559.0000					
BB(38)	307.2625	13.9	14.5	15.3	14.0	1.4	81	565.0000					
CC(39)	313.2625	14.1	14.4	15.4	14.4	1.3							

Max NonAdjacent Channel Level Diff.

5.9

Max Adjacent Channel Level Diff.

2.1

Max Variance from last proof-of-performance test

1.90

Date of last proof-of-performance test

N/A

Note: Make measurements through a 100 ft. test drop cable without a converter

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name: Carthage / Watertown

System Test Point # 2

Hub Name: CARHTAGE

Location / Community: RT. 12 COPENHAGEN / CARTHAGE

Map Number: 46-29

Pole Number: 319

D.T. Value: 26-4

OR Number: 529

GNA Cascade: 5

LE Cascade: 0

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: RT. 12 COPENHAGEN / CARTHAGE
Date : 01/23/03
Time : 1:04

Ch	Freq (MHz)	Visual Level (dBmV)	Aural Level (dBmV)	SC (dB)	Diff (dB)	Ch	Freq (MHz)	Visual Level (dBmV)	Aural Level (dBmV)	SC (dB)	Diff (dB)
2	55.2500	11.4	-2.7	14.1		DD(40)	319.2625	14.8	-0.3	15.1	
3	61.2500	11.7	-2.5	14.2		EE(41)	325.2625	15.3	1.2	14.1	
4	67.2500	11.2	-2.9	14.1		FF(42)	331.2750	14.9	-0.2	15.1	
5	77.2500	11.6	-2.4	14.0		GG(43)	337.2625	15.0	1.2	13.8	
6	83.2500	11.3	-3.5	14.8		HH(44)	343.2625	15.2	1.6	13.6	
A-5(95)	91.2500	N/A	N/A	N/A		II(45)	349.2625	15.7	2.7	13.0	
A-4(96)	97.2500	12.5	-1.3	13.8		JJ(46)	355.2625	15.9	2.3	13.6	
A-3(97)	103.2500	N/A	N/A	N/A		KK(47)	361.2625	15.5	0.7	14.8	
A-2(98)	109.2750	N/A	N/A	N/A		LL(48)	367.2625	16.0	2.0	14.0	
A-1(99)	115.2750	13.9	-0.2	14.1		MM(49)	373.2625	15.3	0.7	14.8	
A(14)	121.2625	13.5	-0.8	14.3		NN(50)	379.2625	15.8	1.0	14.8	
B(15)	127.2625	13.9	-0.6	14.5		OO(51)	385.2625	15.9	1.0	14.9	
C(16)	133.2625	13.3	-0.8	14.1		PP(52)	391.2625	16.4	2.3	14.1	
D(17)	139.2500	13.1	-1.5	14.6		QQ(53)	397.2625	15.6	1.0	14.6	
E(18)	145.2500	13.9	-1.0	14.9		RR(54)	403.2500	15.8	0.8	15.0	
F(19)	151.3210	13.1	-1.0	14.1		SS(55)	409.2500	16.1	1.6	14.5	
G(20)	157.2500	13.5	-1.2	14.7		TT(56)	415.2500	16.3	1.9	14.4	
H(21)	163.2500	14.2	0.6	13.6		UU(57)	421.2500	16.1	2.1	14.0	
I(22)	169.2500	13.2	-0.7	13.9		VV(58)	427.2500	17.0	2.0	15.0	
7	175.2500	12.2	-2.3	14.5		WW(59)	433.2500	16.4	1.8	14.6	
8	181.2500	12.6	-0.6	13.2		XX(60)	439.2500	15.7	0.6	15.1	
9	187.2500	13.0	-0.7	13.7		YY(61)	445.2500	16.0	2.1	13.9	
10	193.2500	12.7	-1.2	13.9		ZZ(62)	451.2500	16.4	1.7	14.7	
11	199.2500	13.0	-0.6	13.6		63	457.2500	17.1	2.4	14.7	
12	205.2500	13.6	-0.2	13.8		64	463.2500	17.0	3.4	13.6	
13	211.2500	12.6	-2.4	15.0		65	469.2500	17.0	2.1	14.9	
J(23)	217.2500	13.0	-1.5	14.5		66	475.2500	16.8	1.7	14.9	
K(24)	223.2500	14.0	-0.3	14.3		67	481.2500	17.4	2.4	15.0	
L(25)	229.2625	13.7	-0.9	14.6		68	487.2500	17.0	2.2	14.8	
M(26)	235.2625	13.5	0.0	13.5		69	493.2500	16.8	2.7	14.1	
N(27)	241.2625	13.8	-1.2	15.0		70	499.2500	17.3	3.3	14.0	
O(28)	247.2625	14.2	-0.7	14.9		71	505.2500	17.2	3.2	14.0	
P(29)	253.2625	13.7	0.2	13.5		72	511.2500	16.7	1.7	15.0	
Q(30)	259.2625	14.5	0.2	14.3		73	517.2500	16.6	2.2	14.4	
R(31)	265.2625	14.4	0.2	14.2		74	523.2500	17.3	3.0	14.3	
S(32)	271.2625	13.9	-0.3	14.2		75	529.2500	17.3	3.1	14.2	
T(33)	277.2625	14.3	0.0	14.3		76	535.2500	N/A	N/A	N/A	
U(34)	283.2625	13.9	-0.6	14.5		77	541.2500	N/A	N/A	N/A	
V(35)	289.2625	13.6	-0.5	14.1		78	547.2500	17.2	3.4	13.8	
W(36)	295.2625	14.2	0.2	14.0		79	553.0000	N/A	N/A	N/A	
AA(37)	301.2625	15.3	1.2	14.1		80	559.0000	N/A	N/A	N/A	
BB(38)	307.2625	14.1	0.4	13.7		81	565.0000	N/A	N/A	N/A	
CC(39)	313.2625	14.3	0.0	14.3							

Min Channel :-
 Max Channel :-

4
 67

PEAK TO VALLEY: 6:20

TIME WARNER CABLE -- SYRACUSE DIVISION

IN CHANNEL RESPONSE Test
CARRIER - TO - NOISE Test
COHERENT DISTURBANCES Test
LOW FREQUENCY DISTURBANCES Test

System Name: Carthage / Watertown

Date: January 15, 2003

Test Performed By: MARK FAVRET

Location: RT. 12 COPENHAGEN / CARTHAGE

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	In Channel Response (μ dB)	Carrier To Noise Ratio (dB)	Distortions (μ Bc) CTB	CSO	HUM (%)
3	0.5	47.0	66.3	64.4	0.4
12	0.6	48.6	63.8	65.5	
15	0.4	47.1	62.8	63.9	
26	0.1	46.8	60.1	64.9	
34	0.6	47.7	61.1	63.3	
41	0.2	47.3	60.4	60.4	
50	0.7	47.2	62.3	66.3	
62	0.3	47.5	61.1	64.2	
78	0.5	47.9	63.4	62.5	

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 15, 2003

Test Performed By: MARK FAVRET

Location: RT. 12 COPENHAGEN / CARTHAGE

(SEE THE ATTACHED SWEEP TRACES)

09:37:55 JAN 15, 2003
CHANNEL 3 (STD)
REF 9.1 dBmV #AT 0 dB

MKR Δ 1.2500 msec
-0.02 dB

CH11

PEAK
LOG
1
dB/

WA SB
SC FC
CORR

HUM/LOW FREQ DISTURBANCES = 0.4%
Video Modulation: OFF

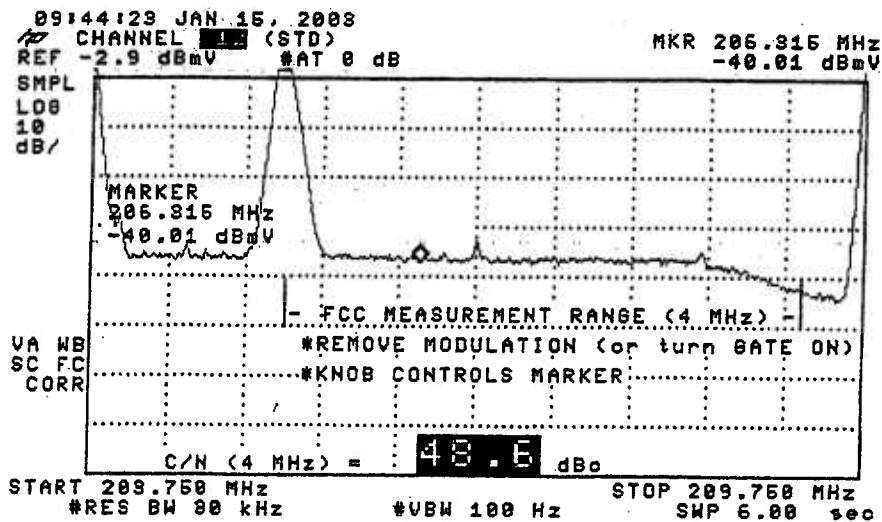
MORE
INFO

MAIN
MENU

START 61.240 MHz
#RES BW 1.0 MHz

#VBW 1 kHz

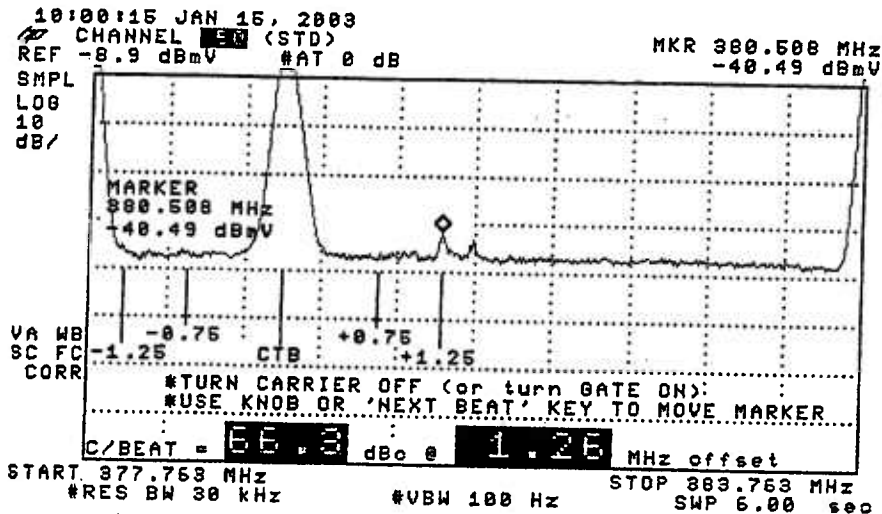
STOP 61.240 MHz
#SWP 50.0 msec



CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF

MORE
 INFO
 More

MAIN
 MENU



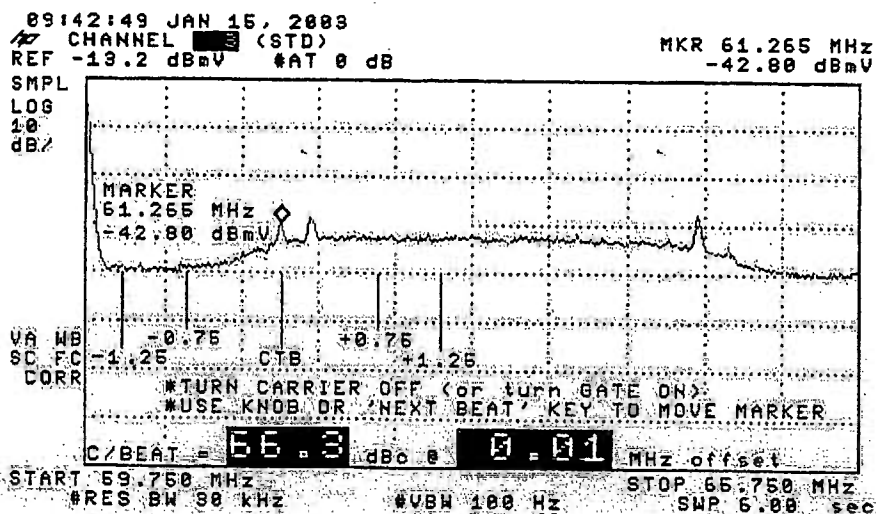
CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF

ZOOM &
 MEASURE

NEXT
 BEAT

More

MAIN
 MENU



CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF

ZOOM &
 MEASURE

NEXT
 BEAT

More

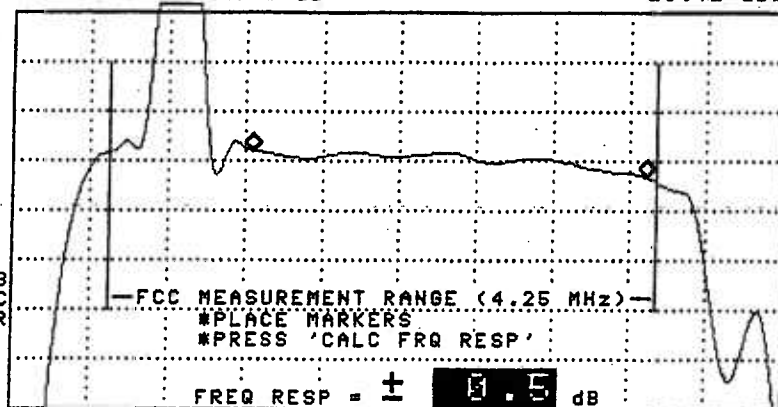
MAIN
 MENU

10:09:21 JAN 15, 2003
CHANNEL 1 (STD)
REF -8.7 dBmV #AT 0 dB

MKR 64.985 MHz
-15.41 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 60.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 66.000 MHz SWP 20.0 msec

10:10:27 JAN 15, 2003
CHANNEL 1 (STD)
REF -4.8 dBmV #AT 0 dB

MKR 208.695 MHz
-9.91 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

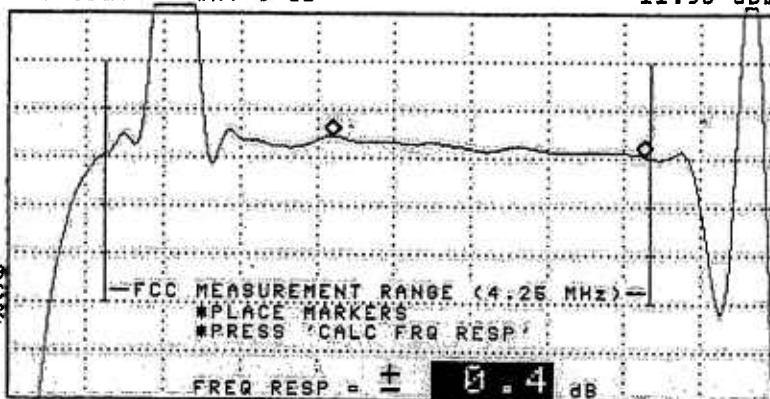
START 204.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 210.000 MHz SWP 20.0 msec

10:11:38 JAN 15, 2003
CHANNEL 1 (STD)
REF -6.0 dBmV #AT 0 dB

MKR 130.965 MHz
-11.98 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 126.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 132.000 MHz SWP 20.0 msec

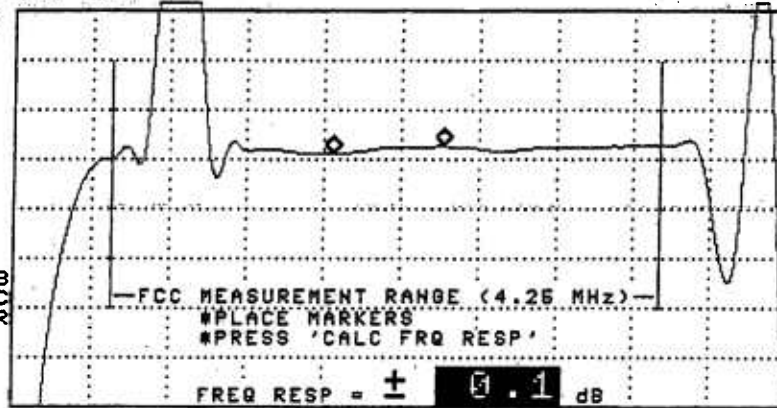
10:12:54 JAN 15, 2003

CHANNEL 34 (STD)
REF -3.2 dBmV #AT 0 dB

MKR 236.475 MHz
-8.98 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 234.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 240.000 MHz SWP 20.0 msec

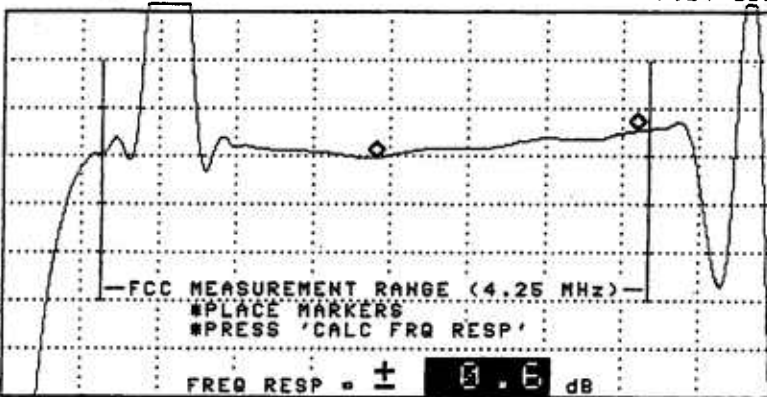
10:14:12 JAN 15, 2003

CHANNEL 34 (STD)
REF -1.2 dBmV #AT 0 dB

MKR 284.895 MHz
-7.24 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 282.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 288.000 MHz SWP 20.0 msec

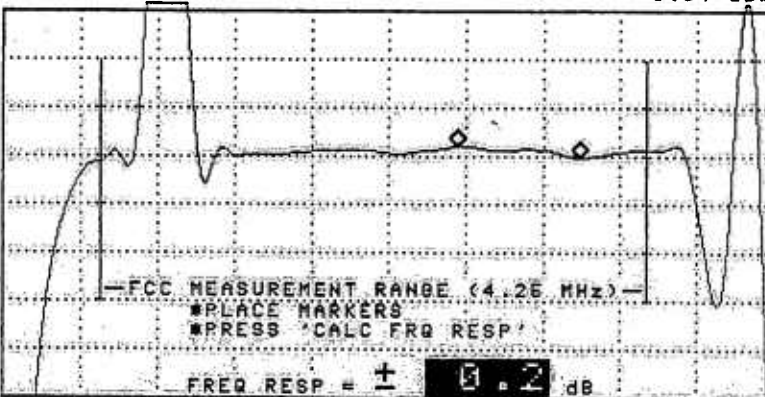
10:16:00 JAN 15, 2003

CHANNEL 34 (STD)
REF .4 dBmV #AT 0 dB

MKR 328.485 MHz
-5.64 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

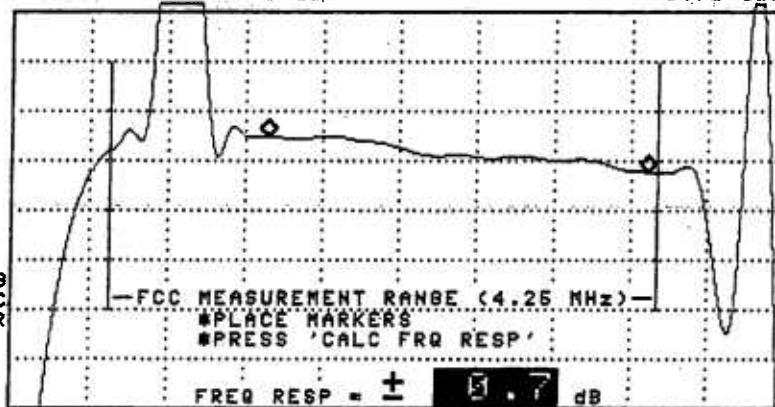
START 324.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 330.000 MHz SWP 20.0 msec

10:17:20 JAN 15, 2003
CHANNEL 38 (STD)
REF -1.8 dBmV #AT 0 dB

MKR 382.985 MHz
-6.72 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

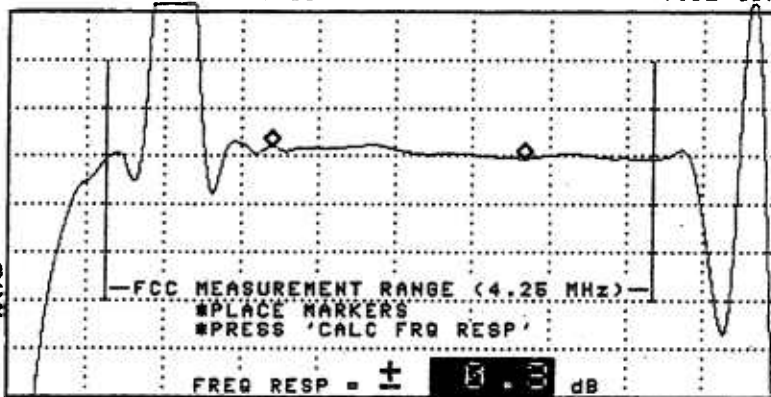
START 376.000 MHz STOP 384.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

10:18:34 JAN 15, 2003
CHANNEL 38 (STD)
REF 1.6 dBmV #AT 0 dB

MKR 454.005 MHz
-4.52 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

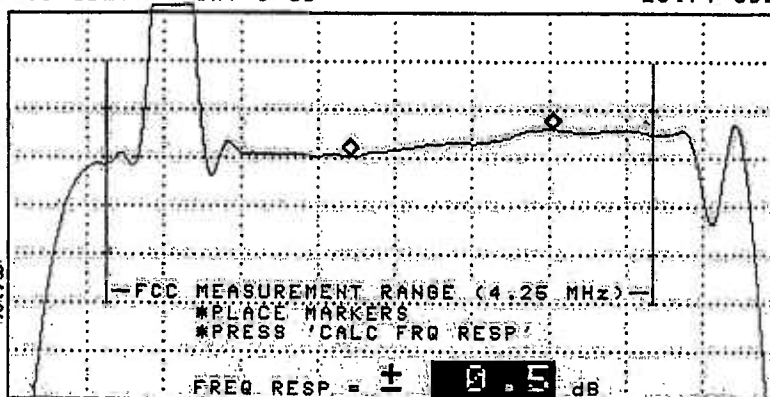
START 450.000 MHz STOP 456.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

10:19:37 JAN 15, 2003
CHANNEL 38 (STD)
REF -4.8 dBmV #AT 0 dB

MKR 548.655 MHz
-10.74 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 546.000 MHz STOP 552.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

RT. 12 COPENHAGEN / CARTHAGE

Date:

01/23/03

Performed by:

DENIS RHUBART

Meter Serial Number:

9253718

Chan	Freq (MHz)	Time					Max Var	Chan	Freq (MHz)	Time					Max Var
		-3	0	3	1					-3	0	3	1		
		1:04	7:04	13:04	19:04					1:04	7:04	13:04	19:04		
		Visual Level (dBmV)								Visual Level (dBmV)					
2	55.2500	11.4	12.1	11.4	12.0	0.7		DD(40)	319.2625	14.8	15.3	15.0	15.1	0.6	
3	61.2500	11.7	12.2	11.8	12.6	0.9		EE(41)	325.2625	15.3	15.7	16.0	16.2	0.9	
4	67.2500	11.2	11.0	11.2	11.4	0.4		FF(42)	331.2750	14.9	15.3	14.8	15.1	0.5	
5	77.2500	11.6	11.7	11.6	11.4	0.3		GG(43)	337.2625	15.0	15.8	16.2	15.8	1.2	
6	83.2500	11.3	11.6	11.0	11.6	0.6		HH(44)	343.2625	15.2	15.3	14.9	15.5	0.6	
A-5(95)	91.2500							II(45)	349.2625	15.7	16.1	15.5	15.8	0.6	
A-4(96)	97.2500	12.5	12.7	12.5	12.3	0.4		JJ(46)	355.2625	15.9	16.4	16.0	15.9	0.5	
A-3(97)	103.2500							KK(47)	361.2625	15.5	15.6	16.3	16.1	0.8	
A-2(98)	109.2750							LL(48)	367.2625	16.0	16.3	16.5	16.3	0.5	
A-1(99)	115.2750	13.9	14.0	14.1	13.3	0.8		MM(49)	373.2625	15.3	16.0	16.5	17.0	1.7	
A(14)	121.2625	13.5	14.1	13.6	13.6	0.6		NN(50)	379.2625	15.8	16.5	16.4	16.1	0.7	
B(15)	127.2625	13.9	14.0	14.9	14.4	1		OO(51)	385.2625	15.9	16.1	15.9	16.0	0.2	
C(16)	133.2625	13.3	13.8	14.4	14.2	1.1		PP(52)	391.2625	16.4	17.0	16.8	17.1	0.7	
D(17)	139.2500	13.1	13.3	13.6	13.8	0.7		QQ(53)	397.2625	15.6	15.8	15.6	15.9	0.3	
E(18)	145.2500	13.9	14.5	14.0	14.2	0.6		RR(54)	403.2500	15.8	15.9	16.4	17.1	1.3	
F(19)	151.3210	13.1	13.7	13.3	13.2	0.6		SS(55)	409.2500	16.1	16.0	15.6	16.3	0.7	
G(20)	157.2500	13.5	13.8	13.6	13.4	0.4		TT(56)	415.2500	16.3	16.6	16.6	17.0	0.7	
H(21)	163.2500	14.2	14.3	14.6	14.9	0.7		UU(57)	421.2500	16.1	16.7	16.3	16.8	0.7	
I(22)	169.2500	13.2	14.1	14.0	14.5	1.3		VV(58)	427.2500	17.0	17.2	17.3	17.2	0.3	
7	175.2500	12.2	12.4	12.5	12.4	0.3		WW(59)	433.2500	16.4	16.7	16.4	16.1	0.6	
8	181.2500	12.6	12.6	13.0	11.3	1.7		XX(60)	439.2500	15.7	16.0	16.1	16.8	1.1	
9	187.2500	13.0	13.4	12.1	13.3	1.3		YY(61)	445.2500	16.0	16.6	16.6	16.9	0.9	
10	193.2500	12.7	13.3	13.2	13.4	0.7		ZZ(62)	451.2500	16.4	17.0	16.8	17.3	0.9	
11	199.2500	13.0	13.4	13.6	13.5	0.6		63	457.2500	17.1	17.1	17.2	17.2	0.1	
12	205.2500	13.6	13.7	13.5	13.1	0.6		64	463.2500	17.0	17.3	17.3	17.7	0.7	
13	211.2500	12.6	12.9	12.8	12.7	0.3		65	469.2500	17.0	17.4	17.2	17.1	0.4	
J(23)	217.2500	13.0	13.3	12.8	13.7	0.9		66	475.2500	16.6	17.0	16.8	16.7	0.4	
K(24)	223.2500	14.0	13.7	14.3	14.2	0.6		67	481.2500	17.4	17.3	17.3	17.1	0.3	
L(25)	229.2625	13.7	14.6	15.1	15.4	1.7		68	487.2500	17.0	17.4	17.2	17.3	0.4	
M(26)	235.2625	13.5	13.9	14.4	14.9	1.4		69	493.2500	16.8	17.2	17.1	17.2	0.4	
N(27)	241.2625	13.8	14.2	13.8	14.0	0.4		70	499.2500	17.3	17.1	17.4	17.1	0.3	
O(28)	247.2625	14.2	14.3	14.1	14.9	0.8		71	505.2500	17.2	17.3	17.0	16.8	0.5	
P(29)	253.2625	13.7	14.7	14.9	15.0	1.3		72	511.2500	16.7	17.4	17.4	17.0	0.7	
Q(30)	259.2625	14.5	15.0	15.4	15.6	1.1		73	517.2500	16.6	17.0	17.4	17.5	0.9	
R(31)	265.2625	14.4	14.7	14.6	15.3	0.9		74	523.2500	17.3	17.3	17.1	17.3	0.2	
S(32)	271.2625	13.9	14.4	14.9	15.3	1.4		75	529.2500	17.3	17.1	17.0	17.2	0.3	
T(33)	277.2625	14.3	14.7	14.9	14.9	0.6		76	535.2500						
U(34)	283.2625	13.9	14.5	15.2	15.2	1.3		77	541.2500						
V(35)	289.2625	13.6	14.0	14.0	14.6	1		78	547.2500	17.2	17.3	17.3	17.4	0.2	
W(36)	295.2625	14.2	14.9	15.2	14.8	1		79	553.0000						
AA(37)	301.2625	15.3	15.6	15.5	15.2	0.4		80	559.0000						
BB(38)	307.2625	14.1	14.5	14.9	15.3	1.2		81	565.0000						
CC(39)	313.2625	14.3	14.9	15.3	15.6	1.3									

Max NonAdjacent Channel Level Diff.

Max Adjacent Channel Level Diff.

Max Variance from last proof-of-performance test

Date of last proof-of-performance test

Note: Make measurements through a 100 ft. test drop cable without a converter

6.4

2.1

1.70

N/A

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name: Carthage / Watertown

System Test Point # 3

Hub Name: CARTHAGE

Location / Community: RT.26 DENMARK/CARTHAGE

Map Number: 45-33

Pole Number: 189 over 43

D.T. Value: 20-4

OR Number: 527

GNA Cascade: 4

LE Cascade: 2

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: RT. 26 DENMARK / CARTHAGE
Date: 01/29/03
Time: 16:17

Channel	MHz	Visual Level (dBmV)	Aural Level (dBmV)	Visual / Aural Level Difference (dB)	Channel	MHz	Visual Level (dBmV)	Aural Level (dBmV)	Visual / Aural Level Difference (dB)
2	55.2500	12.3	-2.1	14.4	DD(40)	319.2625	15.1	0.3	14.8
3	61.2500	13.2	-1.1	14.3	EE(41)	325.2625	14.9	0.1	14.8
4	67.2500	12.2	-2.4	14.6	FF(42)	331.2750	14.7	-0.1	14.8
5	77.2500	12.1	-2.0	14.1	GG(43)	337.2625	15.3	0.1	15.2
6	83.2500	11.5	-3.5	15.0	HH(44)	343.2625	14.4	0.3	14.1
A-5(95)	91.2500	N/A	N/A	N/A	II(45)	349.2625	14.8	1.8	13.0
A-4(96)	97.2500	12.1	-2.9	15.0	JJ(46)	355.2625	14.9	1.4	13.5
A-3(97)	103.2500	N/A	N/A	N/A	KK(47)	361.2625	15.9	1.1	14.8
A-2(98)	109.2750	N/A	N/A	N/A	LL(48)	367.2625	15.3	1.4	13.9
A-1(99)	115.2750	12.3	-2.0	14.3	MM(49)	373.2625	14.0	-0.5	14.5
A(14)	121.2625	13.1	-1.3	14.4	NN(50)	379.2625	14.6	-0.1	14.7
B(15)	127.2625	13.3	-1.4	14.7	OO(51)	385.2625	14.8	-0.4	15.2
C(16)	133.2625	12.9	-1.2	14.1	PP(52)	391.2625	14.0	-0.3	14.3
D(17)	139.2500	12.8	-2.3	15.1	QQ(53)	397.2625	13.7	-0.7	14.4
E(18)	145.2500	12.7	-1.8	14.5	RR(54)	403.2500	13.4	-1.1	14.5
F(19)	151.3210	13.8	-1.0	14.8	SS(55)	409.2500	13.6	-1.1	14.7
G(20)	157.2500	12.0	-2.2	14.2	TT(56)	415.2500	13.8	-0.5	14.3
H(21)	163.2500	13.5	-0.6	14.1	UU(57)	421.2500	14.4	0.9	13.5
I(22)	169.2500	13.8	-1.0	14.8	VV(58)	427.2500	14.3	-0.4	14.7
7	175.2500	13.1	-1.6	14.7	WW(59)	433.2500	15.1	0.5	14.6
8	181.2500	14.1	-0.6	14.7	XX(60)	439.2500	14.6	-0.4	15.0
9	187.2500	13.7	-0.7	14.4	YY(61)	445.2500	15.1	1.6	13.5
10	193.2500	13.7	-0.2	13.9	ZZ(62)	451.2500	14.1	-0.3	14.4
11	199.2500	14.3	0.6	13.7	63	457.2500	14.1	-0.5	14.6
12	205.2500	14.4	-0.5	14.9	64	463.2500	14.3	-0.5	14.8
13	211.2500	13.9	-0.9	14.8	65	469.2500	14.0	-0.9	14.9
J(23)	217.2500	12.7	-1.6	14.3	66	475.2500	13.1	-2.0	15.1
K(24)	223.2500	11.4	-2.0	13.4	67	481.2500	12.6	-0.6	13.2
L(25)	229.2625	11.4	-2.3	13.7	68	487.2500	14.7	0.1	14.6
M(26)	235.2625	11.9	-2.7	14.6	69	493.2500	12.8	-1.1	13.9
N(27)	241.2625	12.2	-2.5	14.7	70	499.2500	14.3	-0.1	14.4
O(28)	247.2625	11.8	-2.4	14.2	71	505.2500	13.8	-1.1	14.9
P(29)	253.2625	12.3	-1.4	13.7	72	511.2500	13.7	-1.0	14.7
Q(30)	259.2625	12.2	-2.0	14.2	73	517.2500	13.2	-0.9	14.1
R(31)	265.2625	12.0	-1.9	13.9	74	523.2500	13.6	-1.1	14.7
S(32)	271.2625	13.7	-1.3	15.0	75	529.2500	13.1	-1.1	14.2
T(33)	277.2625	13.8	-0.3	14.1	76	535.2500	N/A	N/A	N/A
U(34)	283.2625	14.3	-0.8	15.1	77	541.2500	N/A	N/A	N/A
V(35)	289.2625	13.4	-1.5	14.9	78	547.2500	13.2	-1.7	14.9
W(36)	295.2625	12.0	-1.0	13.0	79	553.0000	N/A	N/A	N/A
AA(37)	301.2625	14.7	-0.1	14.8	80	559.0000	N/A	N/A	N/A
BB(38)	307.2625	14.9	0.4	14.5	81	565.0000	N/A	N/A	N/A
CC(39)	313.2625	14.9	0.5	14.4					

Min Channel :-
Max Channel :-

K(24)
KK(47)

11.4
15.9

PEAK TO VALLEY: 4.50

TIME WARNER CABLE -- SYRACUSE DIVISION

IN CHANNEL RESPONSE Test
CARRIER - TO - NOISE Test
COHERENT DISTURBANCES Test
LOW FREQUENCY DISTURBANCES Test

System Name: Carthage / Watertown

Date: January 15, 2003

Test Performed By: MARK FAVRET

Location: RT.26 DENMARK/CARTHAGE

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	In Channel Response (dB)	Carrier To Noise Ratio (dB)	Distortions (dBc) CTB	CSO	HUM
3	0.6	47.8	62.8	67.9	0.4
12	0.8	48.3	61.1	66.1	
15	0.4	49.2	64.8	68.0	
26	0.3	47.5	62.7	70.1	
34	0.2	47.3	61.2	64.7	
41	0.2	47.7	60.2	60.9	
50	1	47.8	61.3	64.2	
62	0.3	48.8	60.1	69.3	
78	0.2	49.9	61.2	62.7	

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 15, 2003

Test Performed By: MARK FAVRET

Location: RT. 26 DENMARK / CARTHAGE

(SEE THE ATTACHED SWEEP TRACES)

19:19:58 JAN 15, 2003
CHANNEL 3 (STD)
REF 18.9 dBμV AT 10 dB

MKR Δ 125.00 μsec
-0.02 dB

CH01

PEAK
LOG
1
dB/

WA SB
SC FC
CORR

HUM/LOW FREQ DISTURBANCES = 5.4%
Video Modulation: OFF

MORE
INFO

MAIN
MENU

START 61.235 MHz
#RES BW 1.0 MHz

#VBW 1 kHz

STOP 61.235 MHz
#SWP 50.0 μsec

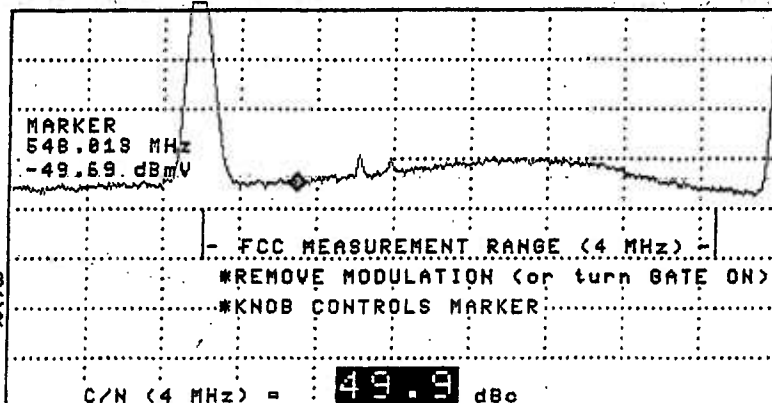
13:43:25 JAN 15, 2003
 CHANNEL 1 (STD)
 REF -18.4 dBmV #AT 0 dB
 SMPL LOG 10 dB/

MKR 548.013 MHz
 -49.69 dBmV

CHNL
 GATE ON OFF

AVERAGE ON OFF

VA WB
 SC FC
 CORR



MORE INFO

More

MAIN MENU

START 545.763 MHz STOP 551.763 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec

13:30:58 JAN 15, 2003
 CHANNEL 2 (STD)
 REF -13.9 dBmV #AT 0 dB
 SMPL LOG 10 dB/

MKR 236.477 MHz
 -46.43 dBmV

CHNL
 GATE ON OFF

AVERAGE ON OFF

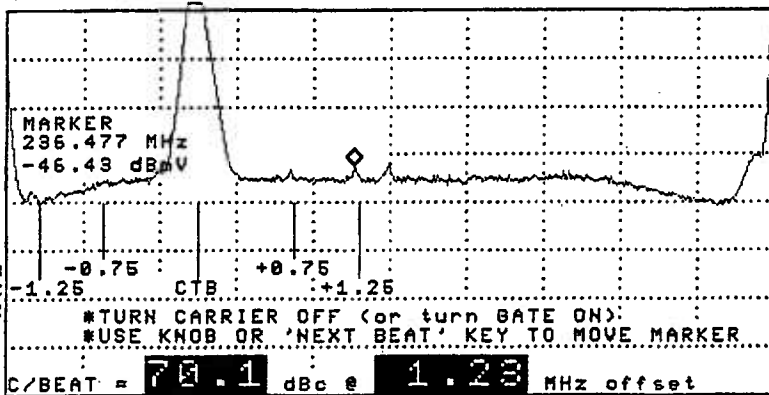
ZOOM & MEASURE

NEXT BEAT

More

MAIN MENU

VA WB
 SC FC
 CORR



START 238.762 MHz STOP 239.762 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec

13:28:55 JAN 15, 2003
 CHANNEL 15 (STD)
 REF -13.1 dBmV #AT 0 dB
 SMPL LOG 10 dB/

MKR 127.246 MHz
 -41.56 dBmV

CHNL
 GATE ON OFF

AVERAGE ON OFF

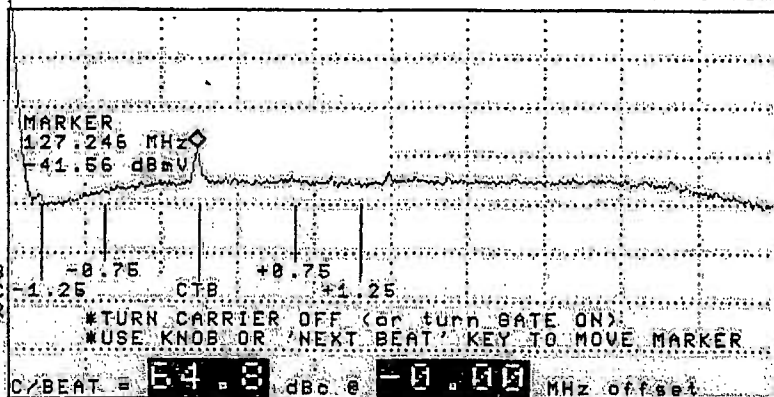
ZOOM & MEASURE

NEXT BEAT

More

MAIN MENU

VA WB
 SC FC
 CORR



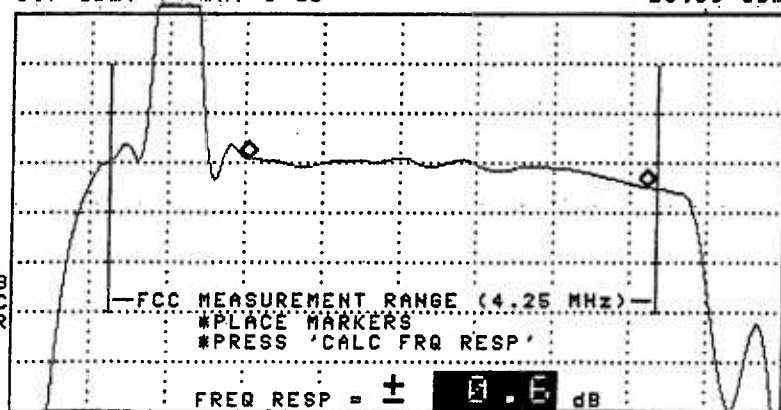
START 125.761 MHz STOP 131.761 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec

13:45:51 JAN 15, 2003
CHANNEL 13 (STD)
REF -3.7 dBmV #AT 0 dB

MKR 64.935 MHz CH10
-10.69 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

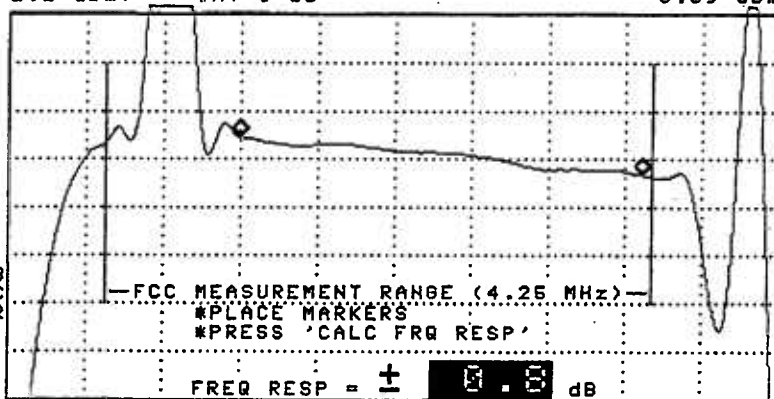
START 60.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 66.000 MHz SWP 20.0 msec

13:46:54 JAN 15, 2003
CHANNEL 13 (STD)
REF -2.2 dBmV #AT 0 dB

MKR 208.935 MHz CH10
-8.89 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

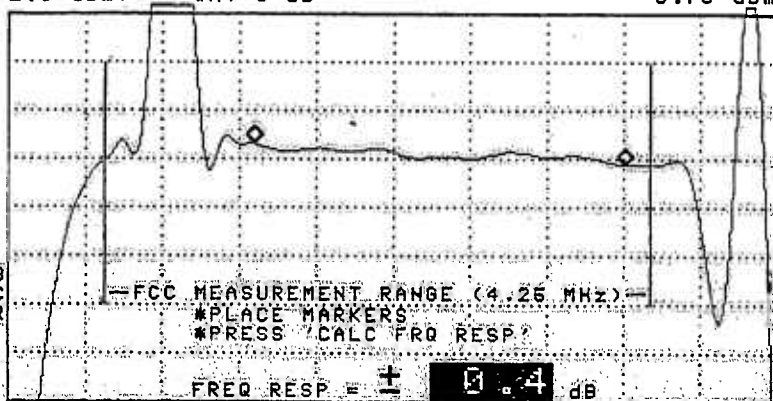
START 204.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 210.000 MHz SWP 20.0 msec

13:48:11 JAN 15, 2003
CHANNEL 13 (STD)
REF -2.5 dBmV #AT 0 dB

MKR 130.815 MHz CH10
-8.73 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

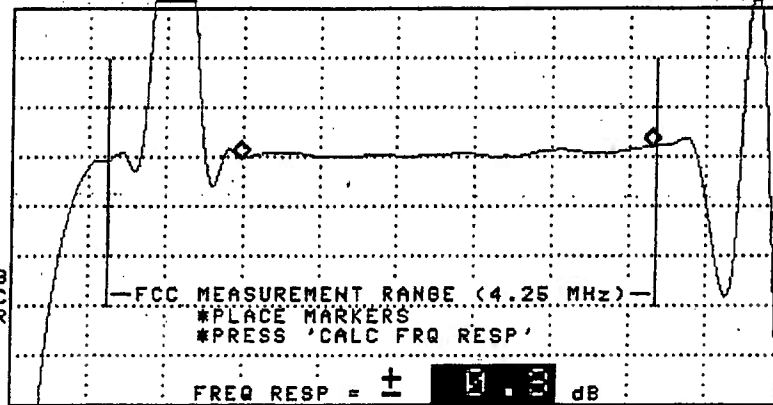
START 126.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 132.000 MHz SWP 20.0 msec

13:49:27 JAN 15, 2003
CHANNEL 2 (STD)
REF -2.4 dBmV #AT 0 dB

MKR 235.785 MHz
-8.49 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

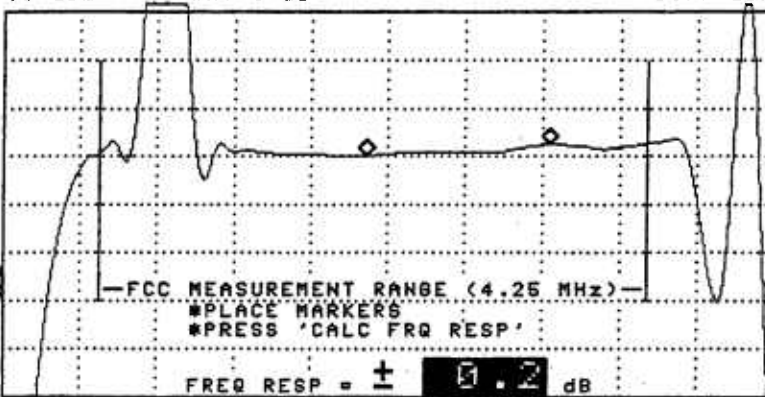
START 234.000 MHz STOP 240.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

13:51:05 JAN 15, 2003
CHANNEL 2 (STD)
REF -0.8 dBmV #AT 0 dB

MKR 284.835 MHz
-6.77 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

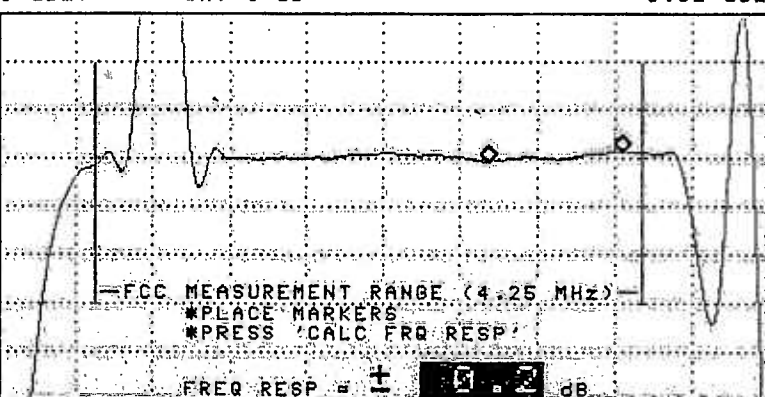
START 282.000 MHz STOP 288.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

13:52:13 JAN 15, 2003
CHANNEL 2 (STD)
REF .6 dBmV #AT 0 dB

MKR 327.825 MHz
-5.52 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



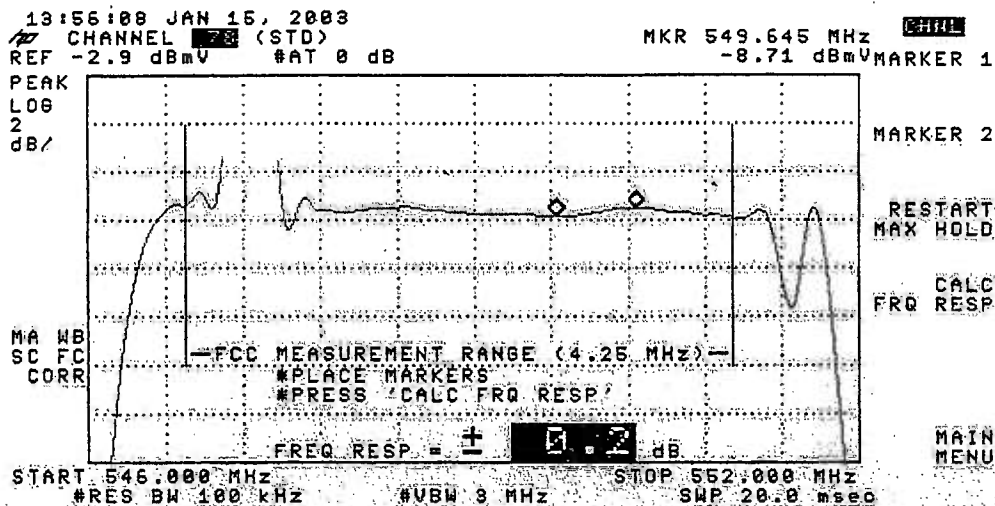
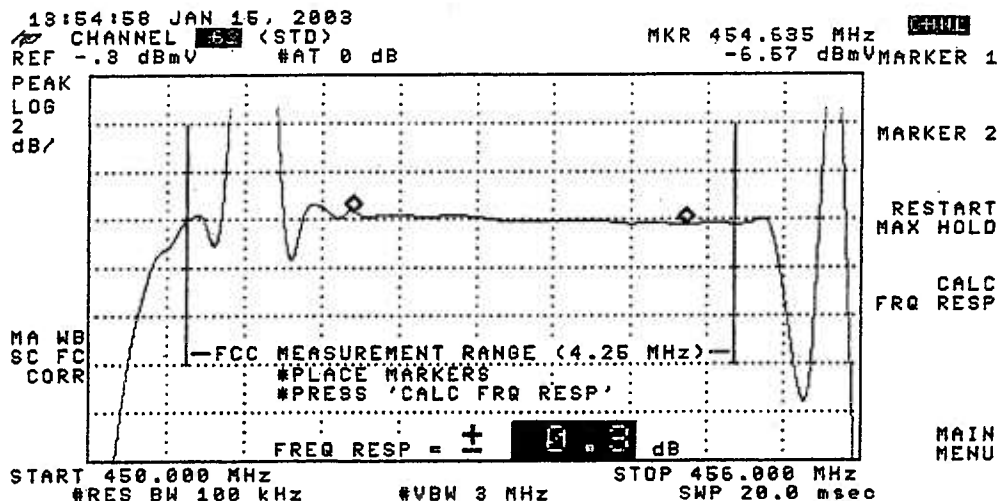
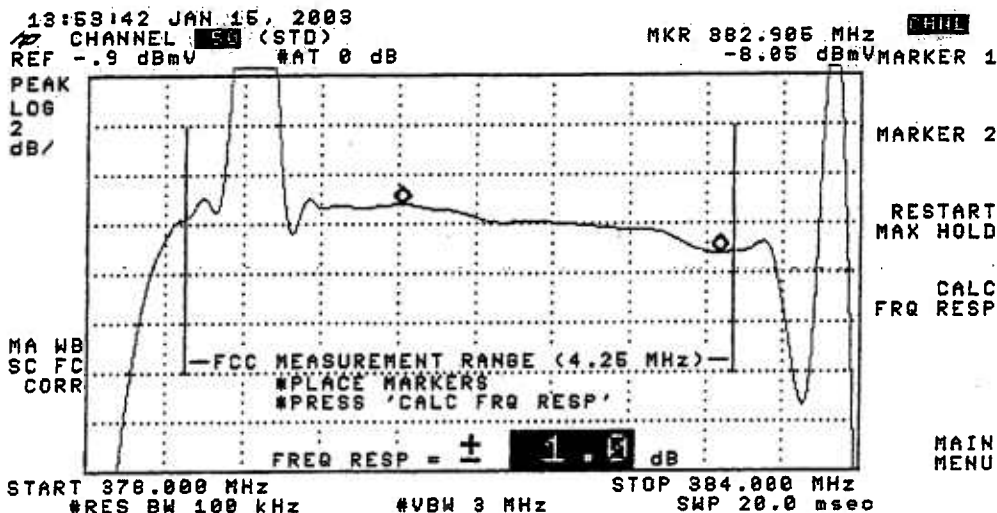
MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 324.000 MHz STOP 330.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec



TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

RT. 26 DENMARK / CARTHAGE

Date:

01/29/03

Performed by:

DENIS RHUBART

Meter Serial Number:

213783

Chan	Freq (MHz)	26				Max Var	Chan	Freq (MHz)	26				Max Var
		16:17	22:17	4:17	10:17				16:17	22:17	4:17	10:17	
2	55.2500	12.3	13.4	13.8	13.0	1.5	DD(40)	319.2625	15.1	16.9	17.0	15.8	1.9
3	61.2500	13.2	13.9	14.6	14.1	1.4	EE(41)	325.2625	14.9	16.6	16.7	15.9	1.8
4	67.2500	12.2	13.3	13.6	13.6	1.4	FF(42)	331.2750	14.7	16.5	16.6	16.1	1.9
5	77.2500	12.1	13.3	13.1	12.1	1.2	GG(43)	337.2625	15.3	17.0	17.2	16.0	1.9
6	83.2500	11.5	12.3	12.8	12.4	1.3	HH(44)	343.2625	14.4	16.3	16.0	15.3	1.9
A-5(95)	91.2500						II(45)	349.2625	14.8	16.8	16.3	16.4	2
A-4(96)	97.2500	12.1	13.3	13.8	13.1	1.7	JJ(46)	355.2625	14.9	16.9	16.7	16.4	2
A-3(97)	103.2500						KK(47)	361.2625	15.9	17.0	17.4	17.1	1.5
A-2(98)	109.2750						LL(48)	367.2625	15.3	17.3	17.8	16.5	2.5
A-1(99)	115.2750	12.3	13.6	14.2	12.9	1.9	MM(49)	373.2625	14.0	16.3	16.2	15.1	2.3
A(14)	121.2625	13.1	14.4	14.7	14.1	1.6	NN(50)	379.2625	14.6	16.7	17.2	15.9	2.6
B(15)	127.2625	13.3	14.8	14.8	14.3	1.5	OO(51)	385.2625	14.8	17.0	17.3	16.3	2.5
C(16)	133.2625	12.8	14.6	14.1	14.4	1.7	PP(52)	391.2625	14.0	15.7	16.3	14.9	2.3
D(17)	139.2500	12.8	14.6	14.5	14.1	1.8	QQ(53)	397.2625	13.7	15.5	16.0	15.0	2.3
E(18)	145.2500	12.7	14.4	14.5	13.8	1.8	RR(54)	403.2500	13.4	15.6	15.9	15.1	2.5
F(19)	151.3210	13.8	14.7	14.0	15.3	1.5	SS(55)	409.2500	13.6	15.5	15.7	14.9	2.1
G(20)	157.2500	12.0	13.8	13.9	13.6	1.9	TT(56)	415.2500	13.8	14.7	15.6	15.3	1.8
H(21)	163.2500	13.5	14.4	15.1	14.4	1.6	UU(57)	421.2500	14.4	16.4	16.5	16.1	2.1
I(22)	169.2500	13.8	14.6	15.5	14.8	1.7	VV(58)	427.2500	14.3	16.2	16.8	16.1	2.5
7	175.2500	13.1	14.3	14.5	14.2	1.4	WW(59)	433.2500	15.1	17.0	17.2	16.5	2.1
8	181.2500	14.1	14.9	14.9	14.7	0.8	XX(60)	439.2500	14.6	16.7	17.0	16.1	2.4
9	187.2500	13.7	14.5	14.9	14.4	1.2	YY(61)	445.2500	15.1	17.3	17.4	16.7	2.3
10	193.2500	13.7	15.0	14.5	14.5	1.3	ZZ(62)	451.2500	14.1	16.2	16.3	15.4	2.2
11	199.2500	14.3	15.6	15.2	15.3	1.3	63	457.2500	14.1	16.1	16.3	15.4	2.2
12	205.2500	14.4	15.4	15.1	14.4	1	64	463.2500	14.3	16.4	16.8	16.1	2.5
13	211.2500	13.9	14.9	14.5	14.3	1	65	469.2500	14.0	15.8	16.0	15.3	2
J(23)	217.2500	12.7	13.7	14.3	13.2	1.6	66	475.2500	13.1	15.4	15.7	14.6	2.6
K(24)	223.2500	11.4	12.8	13.2	12.3	1.8	67	481.2500	12.6	14.9	14.8	14.3	2.3
L(25)	229.2625	11.4	13.2	13.3	12.8	1.9	68	487.2500	14.7	17.0	16.6	16.0	2.3
M(26)	235.2625	11.9	13.5	13.8	12.7	1.9	69	493.2500	12.8	15.3	15.4	14.3	2.6
N(27)	241.2625	12.2	13.9	14.0	13.0	1.8	70	499.2500	14.3	16.6	16.7	15.5	2.4
O(28)	247.2625	11.8	13.2	13.7	12.9	1.9	71	505.2500	13.8	16.1	16.3	15.7	2.5
P(29)	253.2625	12.3	13.4	13.6	12.8	1.3	72	511.2500	13.7	15.9	16.1	15.3	2.4
Q(30)	259.2625	12.2	14.3	14.4	13.5	2.2	73	517.2500	13.2	15.6	15.9	15.1	2.7
R(31)	265.2625	12.0	14.4	14.6	13.9	2.6	74	523.2500	13.6	15.8	16.0	15.3	2.4
S(32)	271.2625	13.7	15.2	15.2	14.5	1.5	75	529.2500	13.1	15.6	15.8	15.1	2.7
T(33)	277.2625	13.8	15.6	15.6	14.8	1.8	76	535.2500					
U(34)	283.2625	14.3	15.2	15.6	14.8	1.3	77	541.2500					
V(35)	289.2625	13.4	15.1	15.4	14.2	2	78	547.2500	13.2	15.3	15.5	14.8	2.3
W(36)	295.2625	12.0	13.7	14.3	14.0	2.3	79	553.0000					
AA(37)	301.2625	14.7	16.3	16.8	15.6	2.1	80	559.0000					
BB(38)	307.2625	14.9	16.5	16.7	15.8	1.8	81	565.0000					
CC(39)	313.2625	14.9	16.7	17.1	15.7	2.2							

Max NonAdjacent Channel Level Diff.

Max Adjacent Channel Level Diff.

Max Variance from last proof-of-performance test

Date of last proof-of-performance test

Note: Make measurements through a 100 ft. test drop cable without a converter

5

2.7

2.70

N/A

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name: Carthage / Watertown

System Test Point # 4

Hub Name: WATERTOWN

Location / Community: RIDGE RD. / WATERTOWN

Map Number: 413-5974

Pole Number: 81 over 21

D.T. Value: 26-4

OR Number: 1180

GNA Cascade: 3

LE Cascade: 2

TIME WARNER CABLE - SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown

Test Location: RIDGE RD. / WATERTOWN

Date: 01/30/03

Time: 11:12

Chan	Freq (MHz)	Visual (dBmV)	Aural (dBmV)	SL (dBmV)	Chan	Freq (MHz)	Visual (dBmV)	Aural (dBmV)	SL (dBmV)
2	55.2500	7.9	-6.1	14.0	DD(40)	319.2625	10.5	-4.3	14.8
3	61.2500	7.7	-6.2	13.9	EE(41)	325.2625	10.1	-4.3	14.4
4	67.2500	7.8	-5.2	13.0	FF(42)	331.2750	10.1	-4.7	14.8
5	77.2500	7.5	-5.8	13.3	GG(43)	337.2625	11.1	-3.7	14.8
6	83.2500	7.3	-7.1	14.4	HH(44)	343.2625	9.7	-3.8	13.5
A-5(95)	91.2500	N/A	N/A	N/A	II(45)	349.2625	10.4	-3.8	14.2
A-4(96)	97.2500	7.0	-7.1	14.1	JJ(46)	355.2625	10.2	-4.2	14.4
A-3(97)	103.2500	7.0	-7.4	14.4	KK(47)	361.2625	10.9	-3.4	14.3
A-2(98)	109.2750	N/A	N/A	N/A	LL(48)	367.2625	12.0	-2.7	14.7
A-1(99)	115.2750	8.3	-5.9	14.2	MM(49)	373.2625	10.6	-3.2	13.8
A(14)	121.2625	8.1	-6.8	14.9	NN(50)	379.2625	12.3	-2.1	14.4
B(15)	127.2625	7.6	-6.7	14.3	OO(51)	385.2625	12.3	-2.4	14.7
C(16)	133.2625	8.0	-5.6	13.6	PP(52)	391.2625	11.6	-2.5	14.1
D(17)	139.2500	7.7	-6.6	14.3	QQ(53)	397.2625	11.6	-3.5	15.1
E(18)	145.2500	8.7	-6.0	14.7	RR(54)	403.2500	11.4	-2.8	14.2
F(19)	151.3210	9.7	-5.1	14.8	SS(55)	409.2500	11.2	-2.4	13.6
G(20)	157.2500	8.6	-5.6	14.2	TT(56)	415.2500	11.1	-3.5	14.6
H(21)	163.2500	8.7	-4.9	13.6	UU(57)	421.2500	12.0	-2.2	14.2
I(22)	169.2500	9.1	-4.3	13.4	VV(58)	427.2500	10.7	-2.8	13.5
7	175.2500	8.3	-5.2	13.5	WW(59)	433.2500	11.8	-2.2	14.0
8	181.2500	9.3	-3.8	13.1	XX(60)	439.2500	11.2	-3.2	14.4
9	187.2500	9.7	-5.2	14.9	YY(61)	445.2500	12.5	-1.9	14.4
10	193.2500	9.7	-4.4	14.1	ZZ(62)	451.2500	12.0	-2.5	14.5
11	199.2500	10.1	-3.6	13.7	63	457.2500	12.4	-1.4	13.8
12	205.2500	9.0	-4.8	13.8	64	463.2500	13.5	-0.8	14.3
13	211.2500	9.6	-4.8	14.4	65	469.2500	13.2	-0.6	13.8
J(23)	217.2500	8.8	-4.3	13.1	66	475.2500	13.4	-0.6	14.0
K(24)	223.2500	8.2	-5.3	13.5	67	481.2500	12.4	-1.6	14.0
L(25)	229.2625	8.4	-5.0	13.4	68	487.2500	12.2	-1.6	13.8
M(26)	235.2625	9.3	-5.4	14.7	69	493.2500	12.9	-1.4	14.3
N(27)	241.2625	9.4	-4.7	14.1	70	499.2500	12.6	-2.2	14.8
O(28)	247.2625	9.2	-5.4	14.6	71	505.2500	12.7	-0.9	13.6
P(29)	253.2625	8.8	-4.8	13.4	72	511.2500	12.7	-0.8	13.5
Q(30)	259.2625	9.7	-4.1	13.8	73	517.2500	13.1	-1.7	14.8
R(31)	265.2625	9.7	-4.3	14.0	74	523.2500	13.3	-1.1	14.4
S(32)	271.2625	10.4	-3.8	14.2	75	529.2500	12.8	-2.1	14.9
T(33)	277.2625	10.5	-2.9	13.4	76	535.2500	N/A	N/A	N/A
U(34)	283.2625	10.8	-2.7	13.5	77	541.2500	N/A	N/A	N/A
V(35)	289.2625	10.9	-3.1	14.0	78	547.2500	12.9	-1.3	14.2
W(36)	295.2625	9.7	-4.6	14.3	79	553.0000	N/A	N/A	N/A
AA(37)	301.2625	10.4	-4.0	14.4	80	559.0000	N/A	N/A	N/A
BB(38)	307.2625	9.9	-4.1	14.0	81	565.0000	N/A	N/A	N/A
CC(39)	313.2625	10.6	-4.0	14.6					

Min Channel :-
Max Channel :-

A-4(96)
64

7
13.5

PEAK TO VALLEY: 6.50

IN CHANNEL RESPONSE Test
CARRIER - TO - NOISE Test
COHERENT DISTURBANCES Test
LOW FREQUENCY DISTURBANCES Test

Location: RIDGE RD. / WATERTOWN

[illegible]

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 14, 2003

Test Performed By: MARK FAVRET

Location: RIDGE RD. / WATERTOWN

(SEE THE ATTACHED SWEEP TRACES)

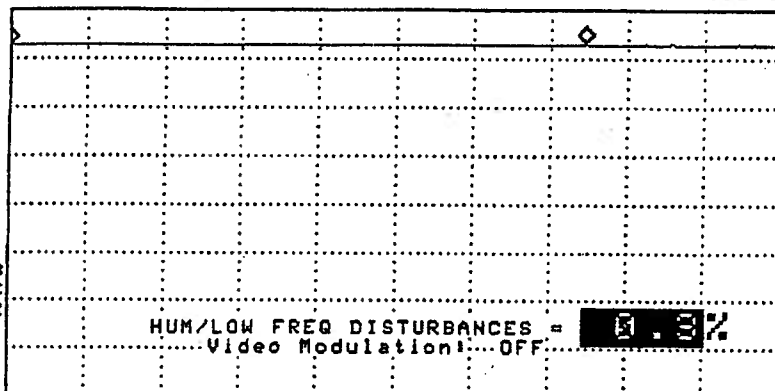
12:44:42 JAN 14, 2003
CHANNEL 5 (STD)
REF 8.4 dBmV #AT 0 dB

MKR Δ -37.250 msec
-0.02 dB

CHNL

PEAK
LDB
1
dB/

WA 9B
SC FC
CORR



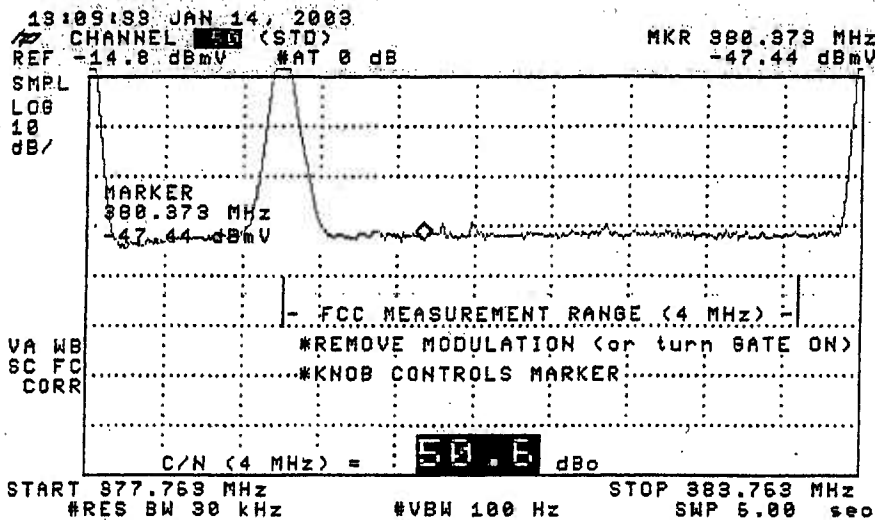
MORE
INFO

MAIN
MENU

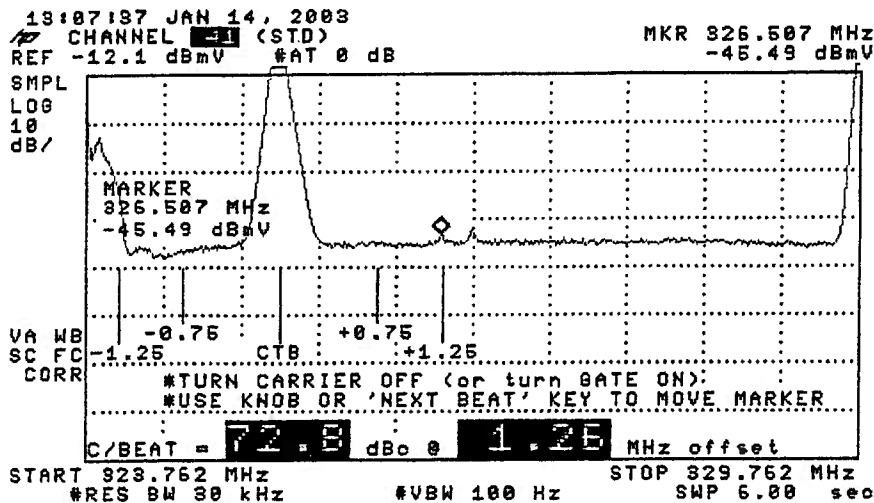
START 61.230 MHz
#RES BW 1.0 MHz

#VBW 1 kHz

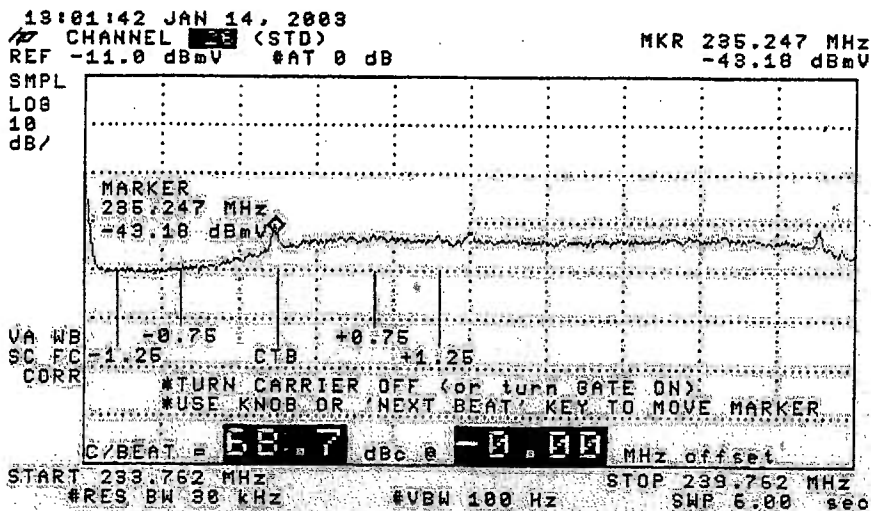
STOP 61.230 MHz
#SWP 50.0 msec



CH1
 GATE
 ON OFF
 AVERAGE
 ON OFF
 MORE
 INFO
 More
 MAIN
 MENU



CH1
 GATE
 ON OFF
 AVERAGE
 ON OFF
 ZOOM &
 MEASURE
 NEXT
 BEAT
 More
 MAIN
 MENU



CH1
 GATE
 ON OFF
 AVERAGE
 ON OFF
 ZOOM &
 MEASURE
 NEXT
 BEAT
 More
 MAIN
 MENU

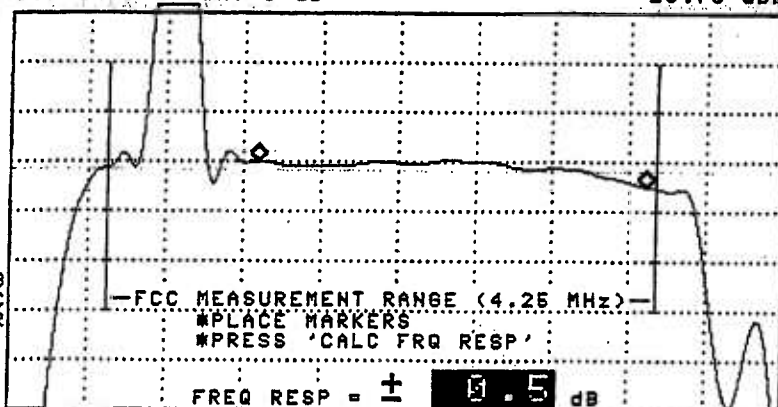
18:24:01 JAN 14, 2003

CHANNEL 1 (STD)
REF -8.7 dBmV #AT 0 dB

MKR 64.985 MHz
-16.78 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 60.000 MHz STOP 66.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

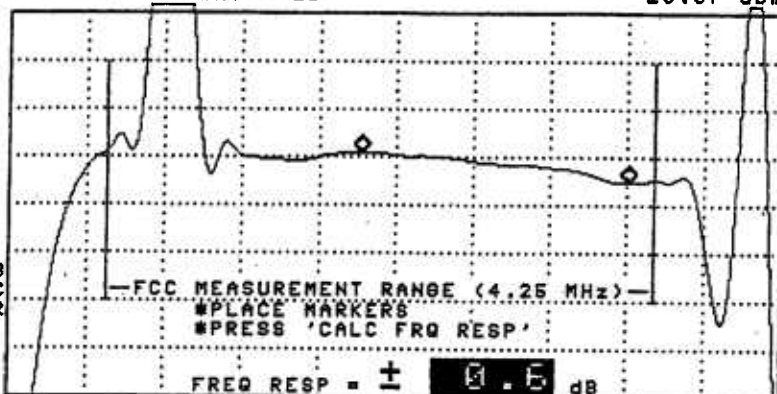
18:25:09 JAN 14, 2003

CHANNEL 1 (STD)
REF -6.8 dBmV #AT 0 dB

MKR 208.815 MHz
-18.37 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 204.000 MHz STOP 210.000 MHz
#RES BW 100 kHz #VBW 9 MHz SWP 20.0 msec

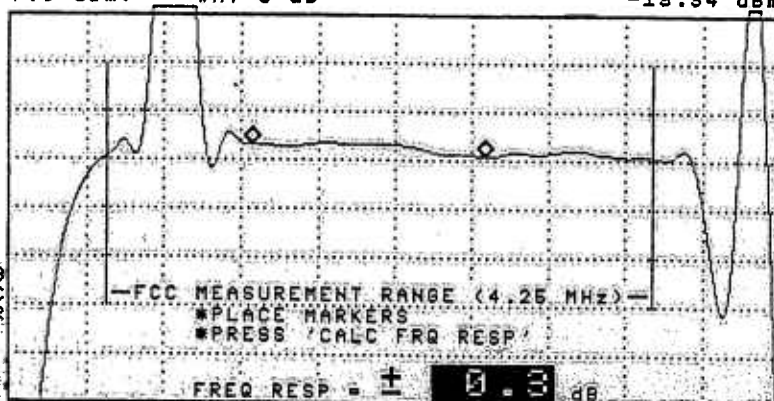
18:27:34 JAN 14, 2003

CHANNEL 1 (STD)
REF -7.6 dBmV #AT 0 dB

MKR 129.705 MHz
-18.94 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

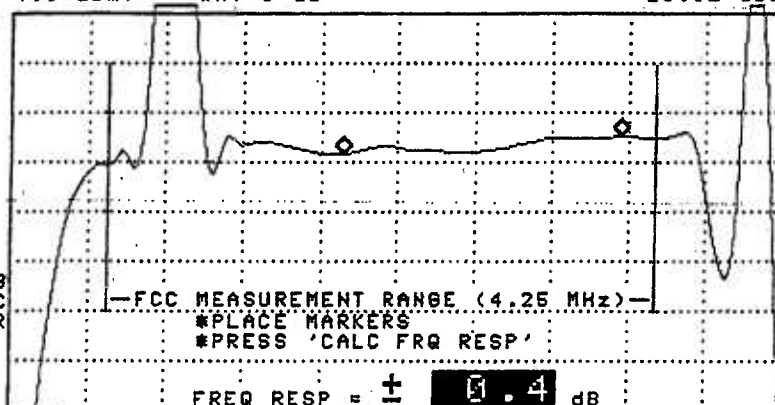
START 126.000 MHz STOP 132.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

19:29:08 JAN 14, 2008
CHANNEL 3 (STD)
REF -4.9 dBmV #AT 0 dB

MKR 236.565 MHz
-10.61 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 234.000 MHz STOP 248.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

19:30:39 JAN 14, 2008
CHANNEL 3 (STD)
REF -2.7 dBmV #AT 0 dB

MKR 266.935 MHz
-7.83 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

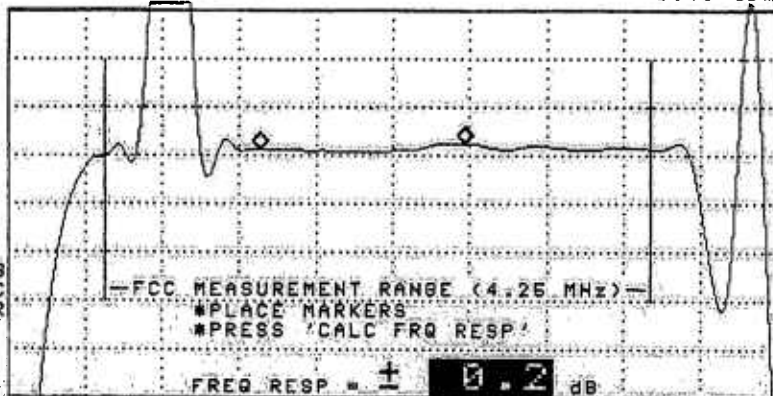
START 262.000 MHz STOP 268.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

19:32:42 JAN 14, 2008
CHANNEL 3 (STD)
REF -3.7 dBmV #AT 0 dB

MKR 325.965 MHz
-9.48 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



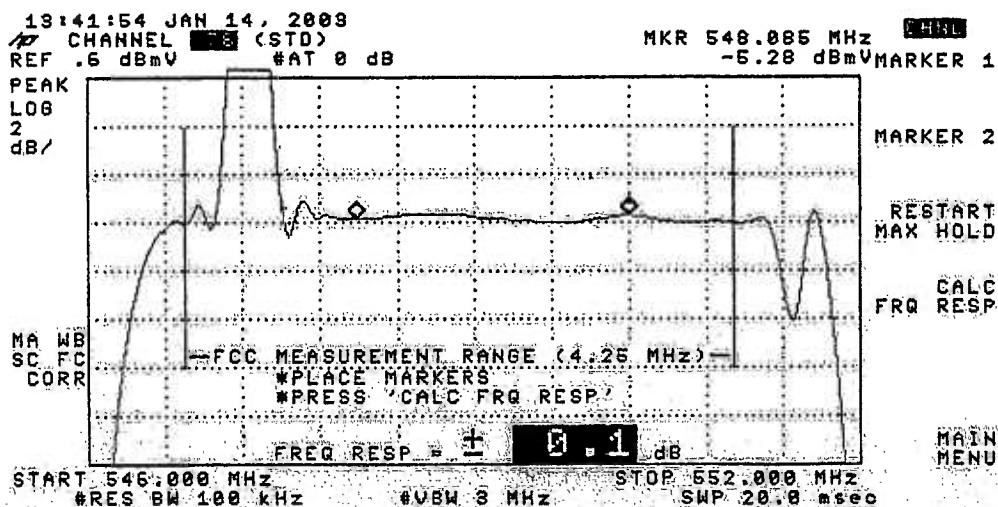
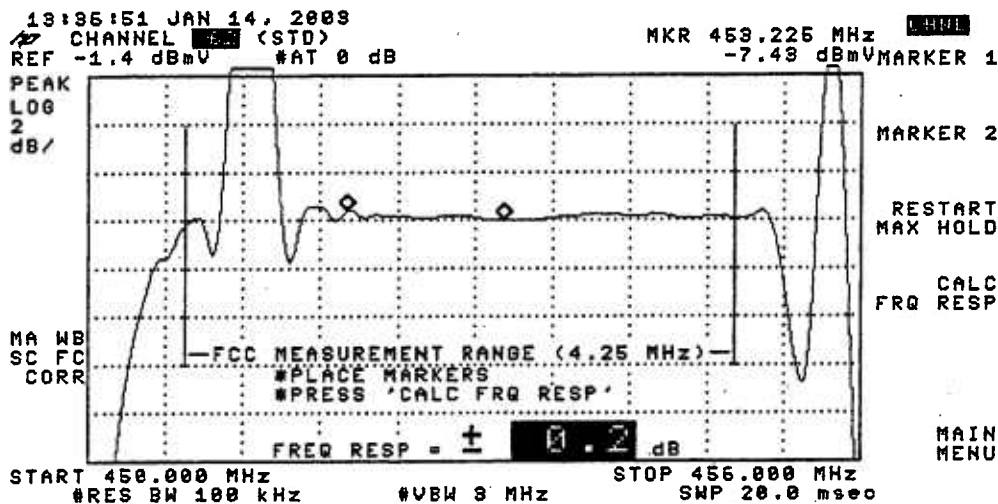
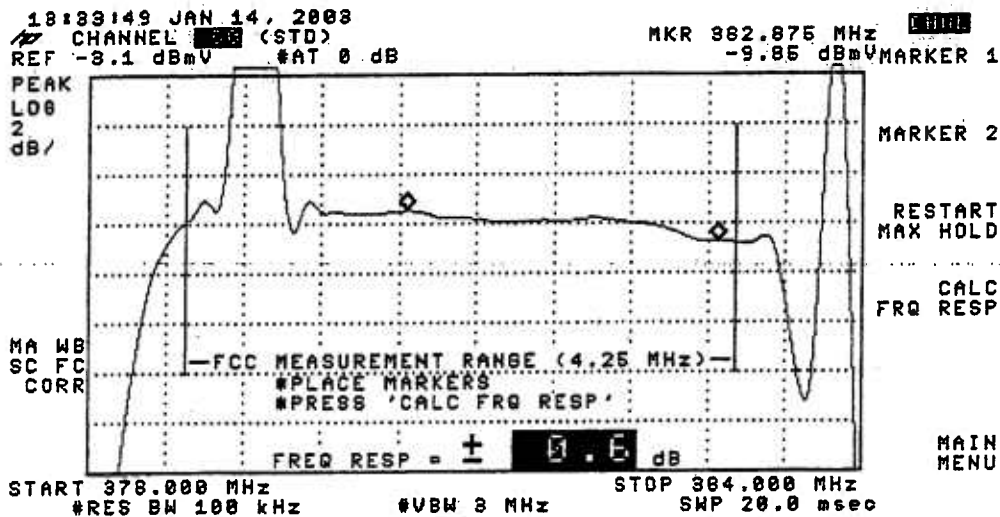
MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 324.000 MHz STOP 330.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec



TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

RIDGE RD. / WATERTOWN

Date:

01/30/03

Performed by:

DENIS RHUBART

Meter Serial Number:

6463559

Chan	Freq	21				Var	Chan	Freq	21				Var
		11:12	17:12	23:12	5:12				11:12	17:12	23:12	5:12	
Chan	Freq	Visual Level (dBmV)	Visual Level (dBmV)	Visual Level (dBmV)	Visual Level (dBmV)	Var	Chan	Freq	Visual Level (dBmV)	Visual Level (dBmV)	Visual Level (dBmV)	Visual Level (dBmV)	Var
2	55.2500	7.9	7.6	7.7	7.9	0.3	DD(40)	319.2625	10.5	10.6	10.3	10.1	0.5
3	61.2500	7.7	7.9	7.8	7.7	0.2	EE(41)	325.2625	10.1	10.1	9.9	10.1	0.2
4	67.2500	7.8	8.0	7.5	7.7	0.5	FF(42)	331.2750	10.1	10.5	10.0	10.4	0.5
5	77.2500	7.5	7.7	7.4	7.4	0.3	GG(43)	337.2625	11.1	11.6	11.0	11.0	0.6
6	83.2500	7.3	7.6	7.7	7.6	0.4	HH(44)	343.2625	9.7	9.9	9.6	9.9	0.3
A-5(95)	91.2500						II(45)	349.2625	10.4	10.7	10.4	10.6	0.3
A-4(96)	97.2500	7.0	7.2	7.7	7.7	0.7	JJ(46)	355.2625	10.2	10.3	10.1	10.3	0.2
A-3(97)	103.2500	7.0	7.3	7.5	7.6	0.6	KK(47)	361.2625	10.9	11.4	11.1	11.2	0.5
A-2(98)	109.2750						LL(48)	367.2625	12.0	12.4	12.0	12.3	0.4
A-1(99)	115.2750	8.3	8.1	8.1	8.6	0.5	MM(49)	373.2625	10.6	10.9	10.9	11.2	0.6
A(14)	121.2625	8.1	8.4	7.7	7.8	0.7	NN(50)	379.2625	12.3	12.6	12.4	12.5	0.3
B(15)	127.2625	7.6	8.0	7.4	7.3	0.7	OO(51)	385.2625	12.3	12.4	12.3	12.5	0.2
C(16)	133.2625	8.0	8.2	7.9	8.0	0.3	PP(52)	391.2625	11.6	11.9	11.6	12.0	0.4
D(17)	139.2500	7.7	7.6	7.5	7.6	0.2	QQ(53)	397.2625	11.6	12.0	11.7	11.7	0.4
E(18)	145.2500	8.7	8.7	8.8	8.7	0.1	RR(54)	403.2500	11.4	11.7	11.8	12.0	0.6
F(19)	151.3210	9.7	9.9	8.2	9.6	0.7	SS(55)	409.2500	11.2	11.5	11.2	11.5	0.3
G(20)	157.2500	8.6	8.7	8.5	8.6	0.2	TT(56)	415.2500	11.1	11.7	11.2	11.7	0.6
H(21)	163.2500	8.7	9.0	8.6	8.5	0.5	UU(57)	421.2500	12.0	11.6	11.5	11.6	0.5
I(22)	169.2500	9.1	9.2	8.9	9.3	0.4	VV(58)	427.2500	10.7	11.0	10.8	11.3	0.6
7	175.2500	8.3	8.7	8.3	8.4	0.4	WW(59)	433.2500	11.8	12.2	12.1	12.5	0.7
8	181.2500	9.3	9.4	9.4	9.4	0.1	XX(60)	439.2500	11.2	12.0	11.1	11.3	0.9
9	187.2500	9.7	9.8	9.7	9.5	0.3	YY(61)	445.2500	12.5	13.0	12.9	13.2	0.7
10	193.2500	9.7	9.8	9.6	9.7	0.2	ZZ(62)	451.2500	12.0	12.4	12.4	12.1	0.4
11	199.2500	10.1	10.2	10.0	10.0	0.2	63	457.2500	12.4	12.9	12.6	12.8	0.5
12	205.2500	9.0	8.9	8.6	9.1	0.5	64	463.2500	13.5	13.8	13.2	13.6	0.6
13	211.2500	9.6	9.6	9.7	9.8	0.2	65	469.2500	13.2	13.5	13.5	13.7	0.5
J(23)	217.2500	8.8	8.7	8.7	8.8	0.1	66	475.2500	13.4	13.6	13.8	14.0	0.6
K(24)	223.2500	8.2	8.4	7.9	7.8	0.6	67	481.2500	12.4	12.9	12.6	12.9	0.5
L(25)	229.2625	8.4	8.7	8.5	8.5	0.3	68	487.2500	12.2	12.4	12.6	12.9	0.7
M(26)	235.2625	9.3	9.2	8.9	8.6	0.7	69	493.2500	12.9	13.1	13.1	13.6	0.7
N(27)	241.2625	8.4	9.8	9.4	9.6	0.4	70	499.2500	12.6	12.8	12.8	13.4	0.8
O(28)	247.2625	9.2	9.8	9.4	9.1	0.7	71	505.2500	12.7	13.1	13.4	13.5	0.8
P(29)	253.2625	8.8	9.1	9.9	9.8	1.1	72	511.2500	12.7	12.9	13.0	13.0	0.3
Q(30)	259.2625	9.7	10.0	9.6	9.9	0.4	73	517.2500	13.1	13.5	13.5	13.6	0.5
R(31)	265.2625	9.7	10.1	9.7	9.8	0.4	74	523.2500	13.3	13.6	12.9	12.7	0.9
S(32)	271.2625	10.4	10.8	10.3	10.3	0.5	75	529.2500	12.8	12.9	12.9	13.3	0.5
T(33)	277.2625	10.5	10.8	10.4	10.5	0.4	76	535.2500					
U(34)	283.2625	10.8	11.3	10.9	10.8	0.5	77	541.2500					
V(35)	289.2625	10.9	11.0	10.5	10.6	0.5	78	547.2500	12.9	13.4	13.4	13.6	0.7
W(36)	295.2625	9.7	9.9	9.5	9.5	0.4	79	553.0000					
AA(37)	301.2625	10.4	10.6	10.2	10.8	0.6	80	559.0000					
BB(38)	307.2625	9.9	9.6	9.5	9.5	0.4	81	565.0000					
CC(39)	313.2625	10.6	10.7	10.5	10.5	0.2							

Max NonAdjacent Channel Level Diff.

Max Adjacent Channel Level Diff.

Max Variance from last proof-of-performance test

Date of last proof-of-performance test

Note: Make measurements through a 100 ft. test drop cable without a converter

6.7

1.9

1:10

N/A

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name: Carthage / Watertown

System Test Point # 5

Hub Name: WATERTOWN

Location / Community: STAPLIN RD. / WATERTOWN

Map Number: 443-5980

Pole Number: 49

D.T. Value: 26-2

OR Number: 1187

GNA Cascade: 3

LE Cascade: 2

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: STAPLIN RD. / WATERTOWN
Date: 01/29/03
Time: 15:33

Chan	Freq (MHz)	Visual Level (dbmV)	Aural Level (dbmV)	Sc (S)	Diff (dbmV)	Chan	Freq (MHz)	Visual Level (dbmV)	Aural Level (dbmV)	Sc (S)	Diff (dbmV)
2	55.2500	7.5	-7.0		14.5	DD(40)	319.2625	9.4	-5.2		14.6
3	61.2500	7.6	-7.0		14.6	EE(41)	325.2625	9.3	-5.0		14.3
4	67.2500	7.9	-5.8		13.7	FF(42)	331.2750	9.6	-5.3		14.9
5	77.2500	7.9	-5.4		13.3	GG(43)	337.2625	10.3	-4.7		15.0
6	83.2500	7.5	-6.7		14.2	HH(44)	343.2625	9.4	-4.9		14.3
A-5(95)	91.2500	N/A	N/A		N/A	II(45)	349.2625	9.9	-4.2		14.1
A-4(96)	97.2500	7.7	-7.1		14.8	JJ(46)	355.2625	9.8	-3.8		13.6
A-3(97)	103.2500	7.8	-6.7		14.5	KK(47)	361.2625	10.3	-4.0		14.3
A-2(98)	109.2750	N/A	N/A		N/A	LL(48)	367.2625	11.3	-2.6		13.9
A-1(99)	115.2750	7.8	-6.0		13.8	MM(49)	373.2625	9.9	-4.4		14.3
A(14)	121.2625	7.4	-6.8		14.2	NN(50)	379.2625	10.7	-4.0		14.7
B(15)	127.2625	7.8	-6.8		14.6	OO(51)	385.2625	10.4	-4.7		15.1
C(16)	133.2625	7.5	-6.5		14.0	PP(52)	391.2625	10.2	-4.0		14.2
D(17)	139.2500	7.5	-7.8		15.3	QQ(53)	397.2625	9.7	-5.5		15.2
E(18)	145.2500	7.5	-7.4		14.9	RR(54)	403.2500	10.1	-3.7		13.8
F(19)	151.3210	8.6	-6.3		14.9	SS(55)	409.2500	9.4	-4.7		14.1
G(20)	157.2500	7.5	-6.5		14.0	TT(56)	415.2500	8.9	-5.6		14.5
H(21)	163.2500	8.1	-5.6		13.7	UU(57)	421.2500	8.5	-6.7		15.2
I(22)	169.2500	8.9	-4.6		13.5	VV(58)	427.2500	9.0	-4.7		13.7
7	175.2900	9.2	-5.6		14.8	WW(59)	433.2500	9.7	-4.4		14.1
8	181.2500	9.2	-4.7		13.9	XX(60)	439.2500	9.6	-4.6		14.2
9	187.2500	9.8	-4.9		14.7	YY(61)	445.2500	10.1	-4.1		14.2
10	193.2500	9.9	-4.2		14.1	ZZ(62)	451.2500	10.2	-4.4		14.6
11	199.2500	9.7	-3.8		13.5	63	457.2500	10.7	-3.5		14.2
12	205.2500	9.0	-5.3		14.3	64	463.2500	11.3	-3.8		14.9
13	211.2500	9.2	-5.5		14.7	65	469.2500	11.3	-3.6		14.9
J(23)	217.2500	8.2	-5.2		13.4	66	475.2500	11.1	-3.6		14.7
K(24)	223.2500	8.0	-5.8		13.8	67	481.2500	10.3	-2.8		13.1
L(25)	229.2625	8.4	-5.6		14.0	68	487.2500	12.1	-1.1		13.2
M(26)	235.2625	8.8	-6.0		14.8	69	493.2500	11.5	-2.3		13.8
N(27)	241.2625	9.1	-5.5		14.6	70	499.2500	12.5	-2.3		14.8
O(28)	247.2625	8.7	-5.8		14.5	71	505.2500	12.7	-1.5		14.2
P(29)	253.2625	9.1	-4.3		13.4	72	511.2500	12.7	-1.3		14.0
Q(30)	259.2625	9.5	-4.7		14.2	73	517.2500	12.9	-1.8		14.7
R(31)	265.2625	9.3	-5.0		14.3	74	523.2500	12.7	-2.6		15.3
S(32)	271.2625	10.3	-4.5		14.8	75	529.2500	12.7	-0.7		13.4
T(33)	277.2625	9.9	-3.8		13.7	76	535.2500	N/A	N/A		N/A
U(34)	283.2625	8.9	-3.7		13.6	77	541.2500	N/A	N/A		N/A
V(35)	289.2625	10.1	-4.3		14.4	78	547.2500	12.6	-2.1		14.7
W(36)	295.2625	8.5	-6.4		14.9	79	553.0000	N/A	N/A		N/A
AA(37)	301.2625	9.4	-4.9		14.3	80	559.0000	N/A	N/A		N/A
BB(38)	307.2625	9.6	-4.8		14.4	81	565.0000	N/A	N/A		N/A
CC(39)	313.2625	9.9	-4.7		14.6						

Min Channel :-
Max Channel :-

A(14)
73

7.4
12.9

PEAK TO VALLEY: 5.50

TIME WARNER CABLE -- SYRACUSE DIVISION

IN CHANNEL RESPONSE Test
CARRIER - TO - NOISE Test
COHERENT DISTURBANCES Test
LOW FREQUENCY DISTURBANCES Test

System Name: Carthage / Watertown

Date: January 14, 2003

Test Performed By: MARK FAVRET

Location: STAPLIN RD. / WATERTOWN

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	In Channel Response (C/N) (dB)	Carrier To Noise Ratio (dB)	Distortions (dBc) CTB	CSO	HUM (%)
3	0.5	48.3	69.4	66.5	0.3
12	0.6	47.6	67.4	65.9	
15	0.3	47.2	66.8	63.8	
26	0.2	48.4	65.2	62.2	
34	0.4	47.3	66.4	64.6	
41	0.1	47.3	68.4	63.6	
50	0.8	49.5	69.6	63.7	
62	0.1	47.4	66.4	71.8	
78	0.2	48.1	65.8	62.9	

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 14, 2003

Test Performed By: MARK FAVRET

Location: STAPLIN RD. / WATERTOWN

(SEE THE ATTACHED SWEEP TRACES)

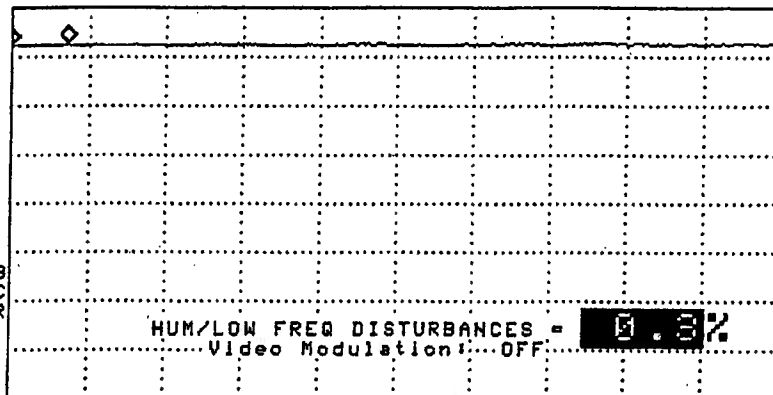
14:17:14 JAN 14, 2003
CHANNEL 3 (STD)
REF 7.9 dBmV #AT 0 dB

MKR A -3.6250 msec
-0.02 dB

FILE

PEAK
LOG
1
dB/

WA SB
SC FC
CORR



START 61.240 MHz
#RES BW 1.0 MHz

#VBW 1 kHz

STOP 61.240 MHz
#SWP 50.0 msec

MORE
INFO

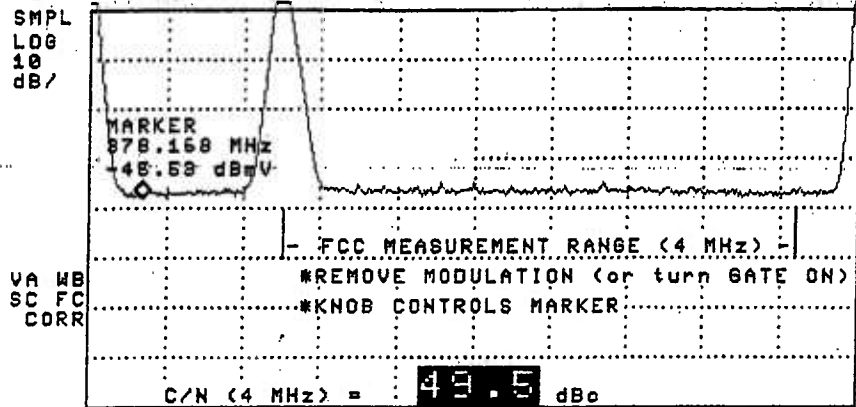
MAIN
MENU

14:40:18 JAN 14, 2003
 CHANNEL **30** (STD)
 REF -7.7 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MRK 378.168 MHz
 -46.53 dBmV

CHNL
 GATE
 ON OFF

AVERAGE
 ON OFF



MORE
 INFO

More

MAIN
 MENU

START 377.768 MHz STOP 383.768 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec

14:44:19 JAN 14, 2003
 CHANNEL **30** (STD)
 REF -17.1 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MRK 452.510 MHz
 -52.22 dBmV

CHNL
 GATE
 ON OFF

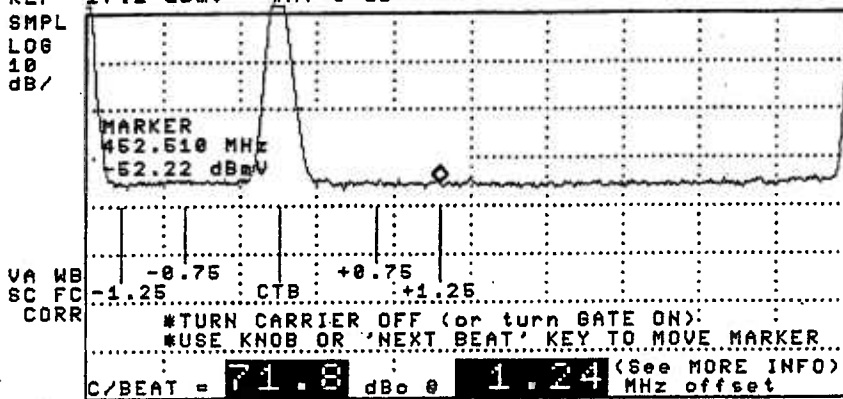
AVERAGE
 ON OFF

ZOOM &
 MEASURE

NEXT
 BEAT

More

MAIN
 MENU



START 449.750 MHz STOP 455.750 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec

14:42:04 JAN 14, 2003
 CHANNEL **30** (STD)
 REF -11.2 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MRK 379.239 MHz
 -46.11 dBmV

CHNL
 GATE
 ON OFF

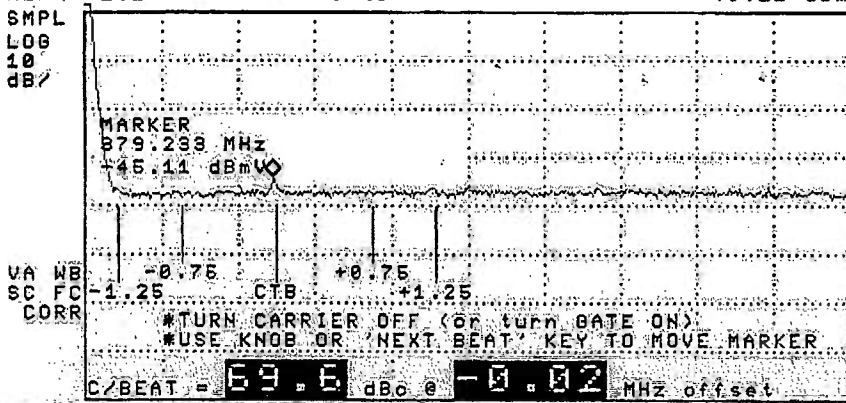
AVERAGE
 ON OFF

ZOOM &
 MEASURE

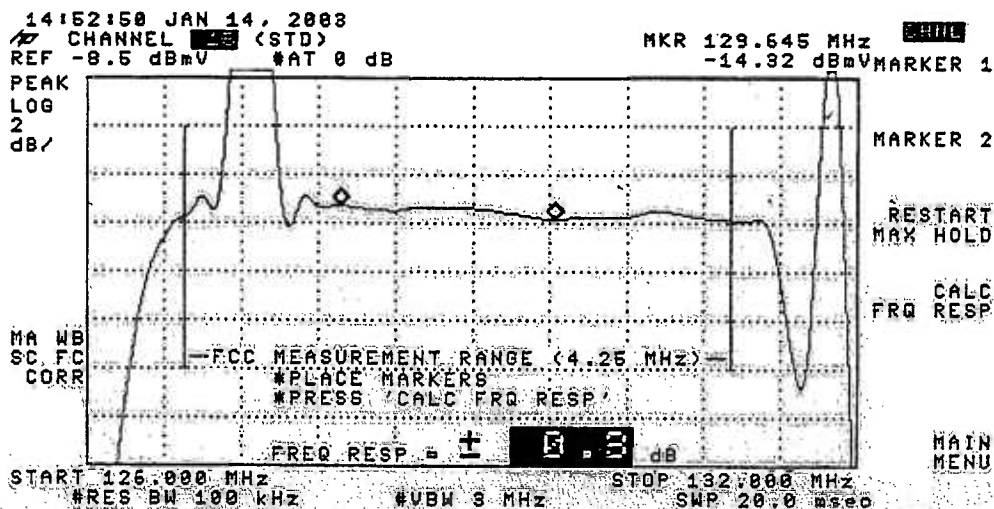
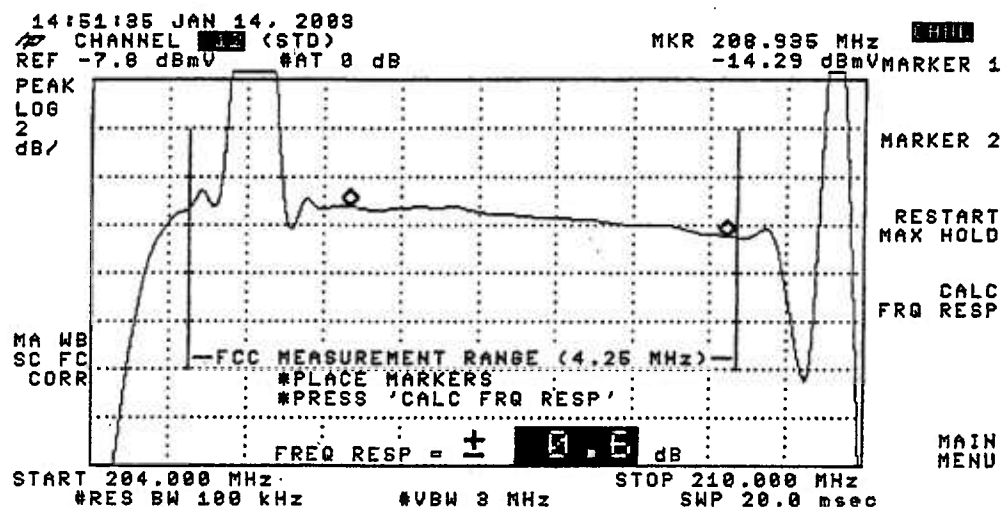
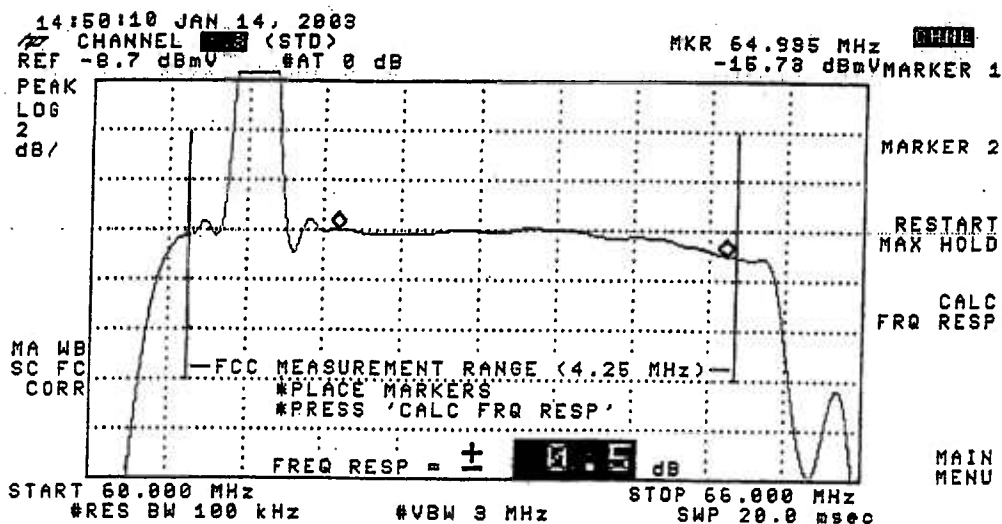
NEXT
 BEAT

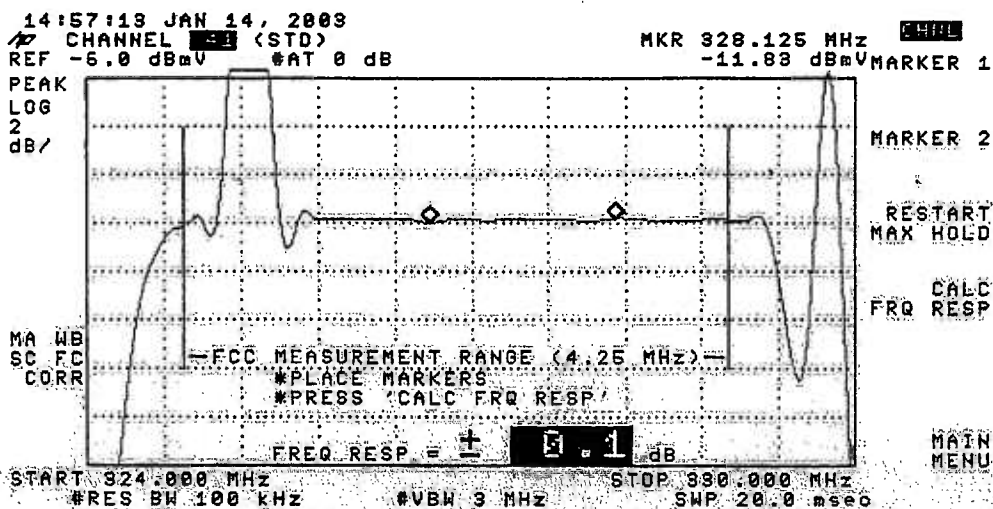
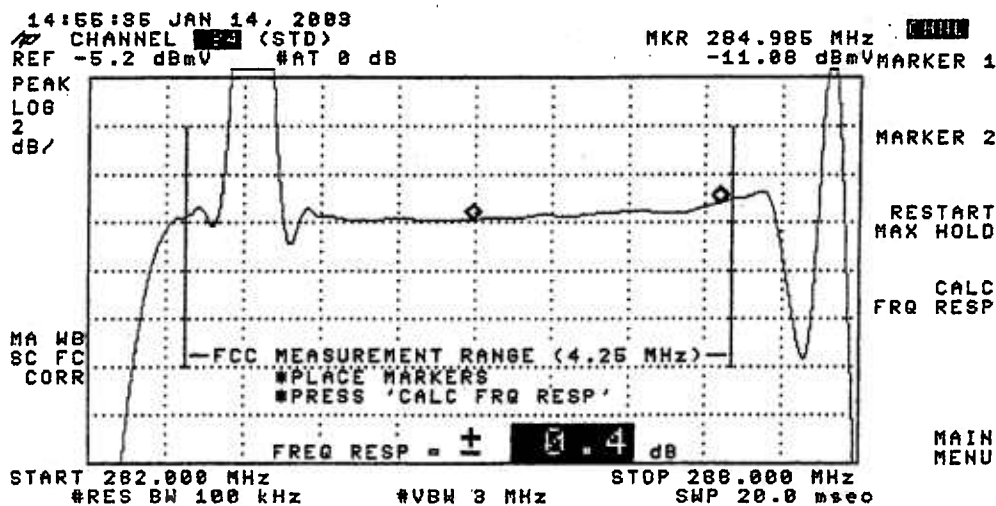
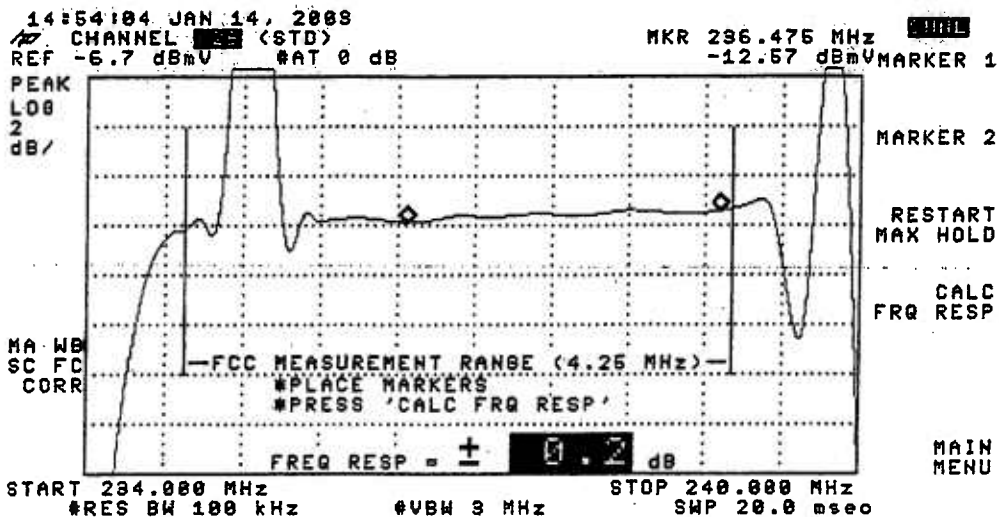
More

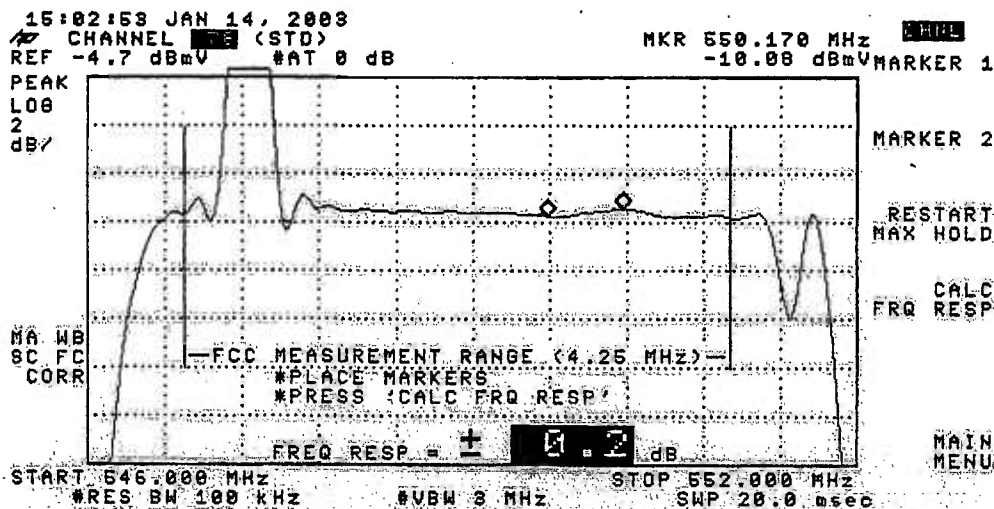
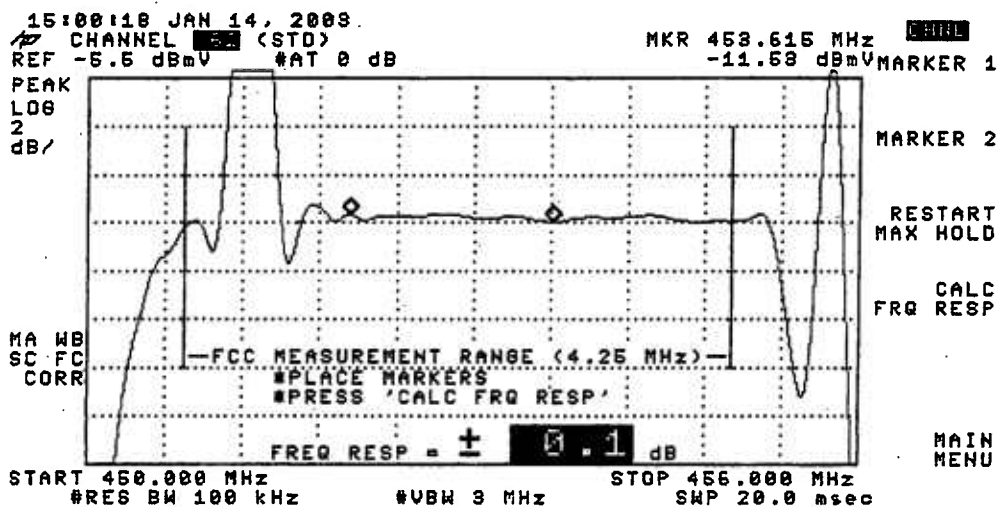
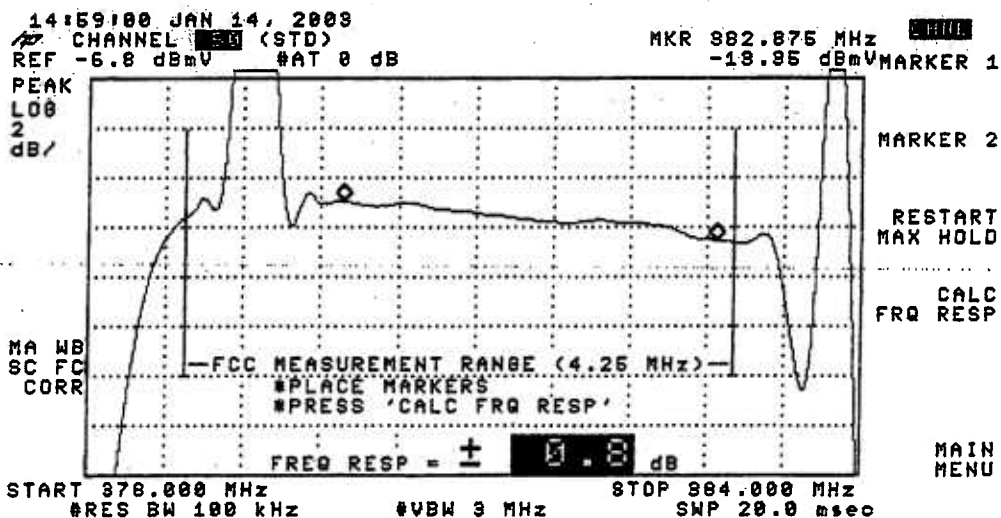
MAIN
 MENU



START 377.768 MHz STOP 383.768 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec







TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

STAPLIN RD. / WATERTOWN

Date:

01/29/03

Performed by:

DENIS RHUBART

Meter Serial Number:

6463559

Chan	Freq	Temp. F				Max	Var	Chan	Freq	Temp. F				Max	Var
		25	19	13	16					25	19	13	16		
		Time								Time					
		15:33	21:33	3:33	9:33					15:33	21:33	3:33	9:33		
		Visual Level (dbmv)							Visual Level (dbmv)						
2	55.2500	7.5	7.7	8.2	7.8	0.7	DD(40)	319.2625	9.4	9.3	9.2	8.9	0.5		
3	61.2500	7.6	7.8	8.6	7.7	1	EE(41)	325.2625	9.3	9.4	8.7	8.8	0.7		
4	67.2500	7.9	7.8	7.5	7.5	0.4	FF(42)	331.2750	9.6	9.3	9.1	8.9	0.7		
5	77.2500	7.9	7.7	7.7	7.8	0.2	GG(43)	337.2625	10.3	10.4	10.1	10.3	0.3		
6	83.2500	7.5	7.8	7.5	7.8	0.3	HH(44)	343.2625	9.4	8.9	9.2	8.7	0.7		
A-5(95)	91.2500						II(45)	349.2625	9.9	9.6	10.0	9.2	0.8		
A-4(96)	97.2500	7.7	7.7	8.3	8.8	1.1	JJ(46)	355.2625	9.8	9.6	10.3	9.6	0.7		
A-3(97)	103.2500	7.8	7.6	8.1	8.4	0.8	KK(47)	361.2625	10.3	10.3	10.1	10.1	0.2		
A-2(98)	109.2750						LL(48)	367.2625	11.3	11.3	11.3	10.8	0.5		
A-1(99)	115.2750	7.8	8.0	7.8	8.2	0.4	MM(49)	373.2625	9.9	10.1	10.4	9.4	1		
A(14)	121.2625	7.4	7.9	7.5	7.4	0.5	NN(50)	379.2625	10.7	10.7	10.7	10.4	0.3		
B(15)	127.2625	7.8	7.8	7.5	7.5	0.3	OO(51)	385.2625	10.4	11.0	11.2	10.7	0.8		
C(16)	133.2625	7.5	7.9	7.5	7.7	0.4	PP(52)	391.2625	10.2	10.5	10.8	10.4	0.6		
D(17)	139.2500	7.5	7.7	7.6	7.5	0.2	QQ(53)	397.2625	9.7	10.3	10.0	9.9	0.6		
E(18)	145.2500	7.5	7.5	7.4	7.5	0.1	RR(54)	403.2500	10.1	11.0	10.8	10.2	0.9		
F(19)	151.3210	8.6	8.8	9.0	8.5	0.5	SS(55)	409.2500	9.4	9.6	10.1	9.5	0.7		
G(20)	157.2500	7.5	8.0	7.8	7.8	0.5	TT(56)	415.2500	8.9	9.4	10.2	9.0	1.3		
H(21)	163.2500	8.1	8.6	8.3	8.4	0.5	UU(57)	421.2500	8.5	8.4	8.8	8.4	0.4		
I(22)	169.2500	8.9	9.3	9.2	9.1	0.4	VV(58)	427.2500	9.0	9.6	9.2	8.4	1.2		
7	175.2500	9.2	9.5	9.0	8.9	0.6	WW(59)	433.2500	9.7	10.2	10.8	9.9	0.9		
8	181.2500	9.2	9.7	9.6	9.4	0.5	XX(60)	439.2500	9.6	10.1	10.1	9.9	0.5		
9	187.2500	9.8	10.4	9.9	9.7	0.7	YY(61)	445.2500	10.1	11.0	10.9	10.5	0.9		
10	193.2500	9.9	10.3	10.1	10.1	0.4	ZZ(62)	451.2500	10.2	10.7	11.0	10.0	1		
11	199.2500	9.7	10.1	10.0	10.3	0.6	63	457.2500	10.7	11.1	11.2	10.5	0.7		
12	205.2500	9.0	9.4	9.1	9.1	0.4	64	463.2500	11.3	11.8	12.3	11.6	1		
13	211.2500	9.2	9.7	9.9	9.8	0.7	65	469.2500	11.3	11.7	11.9	11.2	0.7		
J(23)	217.2500	8.2	8.7	8.7	8.3	0.5	66	475.2500	11.1	11.7	12.0	11.4	0.9		
K(24)	223.2500	8.0	8.1	7.9	7.8	0.3	67	481.2500	10.3	11.0	11.0	10.5	0.7		
L(25)	229.2625	8.4	8.5	8.1	8.5	0.4	68	487.2500	12.1	12.2	12.4	12.1	0.3		
M(26)	235.2625	8.8	8.7	8.7	8.7	0.1	69	493.2500	11.5	12.4	12.3	11.6	0.9		
N(27)	241.2625	9.1	9.3	8.8	8.7	0.6	70	499.2500	12.5	12.2	12.3	12.9	0.7		
O(28)	247.2625	8.7	8.4	8.6	8.4	0.3	71	505.2500	12.7	12.4	12.4	12.7	0.3		
P(29)	253.2625	9.1	9.0	8.8	8.3	0.8	72	511.2500	12.7	12.0	12.3	12.5	0.7		
Q(30)	259.2625	9.5	9.3	9.3	9.0	0.5	73	517.2500	12.9	12.2	12.4	12.1	0.8		
R(31)	265.2625	9.3	9.6	9.3	9.2	0.4	74	523.2500	12.7	12.4	12.3	12.0	0.7		
S(32)	271.2625	10.3	10.2	9.6	10.0	0.7	75	529.2500	12.7	12.0	12.4	12.1	0.7		
T(33)	277.2625	9.9	10.2	9.7	9.6	0.6	76	535.2500							
U(34)	283.2625	9.9	10.0	10.1	9.8	0.3	77	541.2500							
V(35)	289.2625	10.1	10.1	9.9	9.9	0.2	78	547.2500	12.6	12.2	12.3	12.4	0.4		
W(36)	295.2625	8.5	8.7	8.8	8.3	0.5	79	553.0000							
AA(37)	301.2625	9.4	9.5	9.7	9.6	0.3	80	559.0000							
BB(38)	307.2625	9.6	9.6	9.6	9.4	0.2	81	565.0000							
CC(39)	313.2625	9.8	9.9	9.5	9.2	0.7									

Max NonAdjacent Channel Level Diff.

5.5

Max Adjacent Channel Level Diff.

1.8

Max Variance from last proof-of-performance test

1.30

Date of last proof-of-performance test

N/A

Note: Make measurements through a 100 ft. test drop cable without a converter

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name: Carthage / Watertown

System Test Point # 6

Hub Name: WATERTOWN

Location / Community: WATER ST. / WATERTOWN

Map Number: 404-5976

Pole Number: 50 over 10

D.T. Value: 26-2

OR Number: 1156

GNA Cascade: 5

LE Cascade: 0

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: WATER ST. / WATERTOWN
Date : 01/29/03
Time : 3:54

Chan	Freq (MHz)	Visual Level (dBmV)	Aural Level (dBmV)	SC (dB)	D/N (dBmV)	Chan	Freq (MHz)	Visual Level (dBmV)	Aural Level (dBmV)	SC (dB)	D/N (dBmV)
2	55.2500	9.7	-4.7		14.4	DD(40)	319.2625	12.7	-2.2		14.9
3	61.2500	9.6	-5.0		14.6	EE(41)	325.2625	12.6	-2.1		14.7
4	67.2500	9.6	-4.4		14.0	FF(42)	331.2750	12.8	-2.1		14.9
5	77.2500	9.7	-4.3		14.0	GG(43)	337.2625	13.6	-0.3		13.9
6	83.2500	9.7	-4.6		14.3	HH(44)	343.2625	13.0	-1.7		14.7
A-5(95)	91.2500	N/A	N/A		N/A	II(45)	349.2625	13.3	-0.8		14.1
A-4(96)	97.2500	9.5	-5.1		14.6	JJ(46)	355.2625	13.3	-1.1		14.4
A-3(97)	103.2500	9.9	-3.8		13.7	KK(47)	361.2625	14.0	-0.4		14.4
A-2(98)	109.2750	N/A	N/A		N/A	LL(48)	367.2625	14.1	-0.8		14.9
A-1(99)	115.2750	10.9	-3.4		14.3	MM(49)	373.2625	13.6	-1.1		14.7
A(14)	121.2625	10.7	-4.1		14.8	NN(50)	379.2625	14.3	-0.3		14.6
B(15)	127.2625	10.8	-4.0		14.8	OO(51)	385.2625	14.1	-0.5		14.6
C(16)	133.2625	11.1	-3.6		14.7	PP(52)	391.2625	13.9	-0.6		14.5
D(17)	139.2500	10.2	-4.6		14.8	QQ(53)	397.2625	13.4	-1.2		14.6
E(18)	145.2500	10.7	-4.2		14.9	RR(54)	403.2500	13.5	-1.2		14.7
F(19)	151.3210	10.7	-3.8		14.5	SS(55)	409.2500	12.7	-1.0		13.7
G(20)	157.2500	10.1	-4.0		14.1	TT(56)	415.2500	12.8	-1.9		14.7
H(21)	163.2500	11.2	-3.4		14.6	UU(57)	421.2500	12.5	-2.1		14.6
I(22)	169.2500	11.1	-3.3		14.4	VV(58)	427.2500	12.8	-1.7		14.5
7	175.2500	11.3	-3.6		14.9	WW(59)	433.2500	13.2	-1.4		14.6
8	181.2500	11.8	-1.6		13.4	XX(60)	439.2500	13.4	-1.8		15.2
9	187.2500	12.2	-1.5		13.7	YY(61)	445.2500	13.5	-0.7		14.2
10	193.2500	13.5	-0.9		14.4	ZZ(62)	451.2500	13.2	-1.2		14.4
11	199.2500	12.5	-1.7		14.2	63	457.2500	13.5	-1.3		14.8
12	205.2500	11.1	-3.3		14.4	64	463.2500	14.3	-0.5		14.8
13	211.2500	11.5	-2.7		14.2	65	469.2500	14.0	0.0		14.0
J(23)	217.2500	10.9	-3.8		14.7	66	475.2500	13.2	-1.7		14.9
K(24)	223.2500	10.1	-4.4		14.5	67	481.2500	12.6	-1.9		14.5
L(25)	229.2625	9.4	-4.6		14.0	68	487.2500	13.9	-1.0		14.9
M(26)	235.2625	10.6	-3.7		14.3	69	493.2500	13.2	-1.2		14.4
N(27)	241.2625	10.6	-3.9		14.5	70	499.2500	14.1	-0.5		14.6
O(28)	247.2625	11.2	-3.9		15.1	71	505.2500	14.2	-0.8		15.0
P(29)	253.2625	10.9	-2.8		13.7	72	511.2500	14.4	-0.7		15.1
Q(30)	259.2625	11.5	-2.6		14.1	73	517.2500	14.4	-0.2		14.6
R(31)	265.2625	11.7	-2.8		14.5	74	523.2500	14.5	-0.4		14.9
S(32)	271.2625	12.9	-2.3		15.2	75	529.2500	14.6	0.2		14.4
T(33)	277.2625	12.2	-2.4		14.8	76	535.2500	N/A	N/A		N/A
U(34)	283.2625	12.2	-2.0		14.2	77	541.2500	N/A	N/A		N/A
V(35)	289.2625	12.5	-2.2		14.7	78	547.2500	14.2	-0.7		14.9
W(36)	295.2625	10.7	-2.8		13.5	79	553.0000	N/A	N/A		N/A
AA(37)	301.2625	12.1	-1.9		14.0	80	559.0000	N/A	N/A		N/A
BB(38)	307.2625	11.9	-2.9		14.8	81	565.0000	N/A	N/A		N/A
CC(39)	313.2625	13.1	-1.7		14.8						

Min Channel :-
 Max Channel :-

L(25)
 75

9.4
 14.6

PEAK TO VALLEY: 5.20

IN CHANNEL RESPONSE Test
CARRIER - TO - NOISE Test
COHERENT DISTURBANCES Test
LOW FREQUENCY DISTURBANCES Test

Location: WATER ST. / WATERTOWN

[illegible]

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 14, 2003

Test Performed By: MARK FAVRET

Location: WATER ST. / WATERTOWN

(SEE THE ATTACHED SWEEP TRACES)

11:10:16 JAN 14, 2003
CHANNEL 3 (STD)
REF 11.1 dBmV AT 10 dB

MKR Δ 5.7500 msec
-0.02 dB

CHNL

PEAK
LOG
1
dB/

WA SB
SC FC
CORR

HUM/LOW FREQ DISTURBANCES = 0.3%
Video Modulation: OFF

MORE
INFO

MAIN
MENU

START 61.280 MHz
#RES BW 1.0 MHz

#VBW 1 kHz

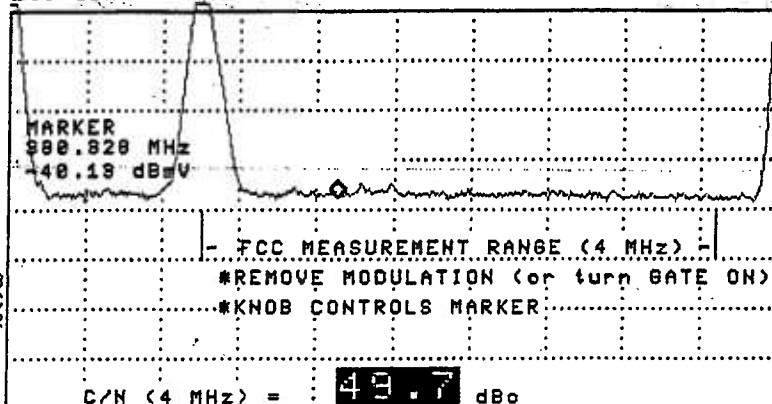
STOP 61.280 MHz
#SWP 50.0 msec

11:40:54 JAN 14, 2003
 CHANNEL **50** (STD)
 REF -2.6 dBmV #AT 0 dB

MRK 880.828 MHz
 -40.18 dBmV

SMPL
 LOG
 10
 dB/

VA WB
 SC FC
 CORR



START 877.768 MHz STOP 883.768 MHz
 #RES BW 90 kHz #VBW 100 Hz SWP 6.00 sec

CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF

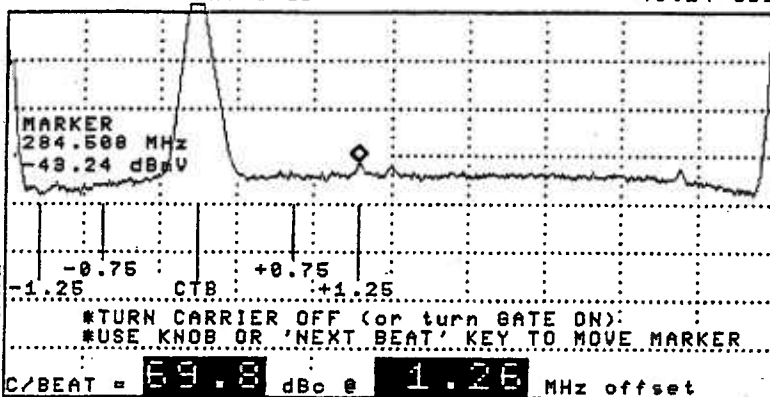
MORE
 INFO
 More
 MAIN
 MENU

11:34:32 JAN 14, 2003
 CHANNEL **50** (STD)
 REF -11.9 dBmV #AT 0 dB

MRK 284.508 MHz
 -43.24 dBmV

SMPL
 LOG
 10
 dB/

VA WB
 SC FC
 CORR



START 281.768 MHz STOP 287.768 MHz
 #RES BW 80 kHz #VBW 100 Hz SWP 6.00 sec

CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF

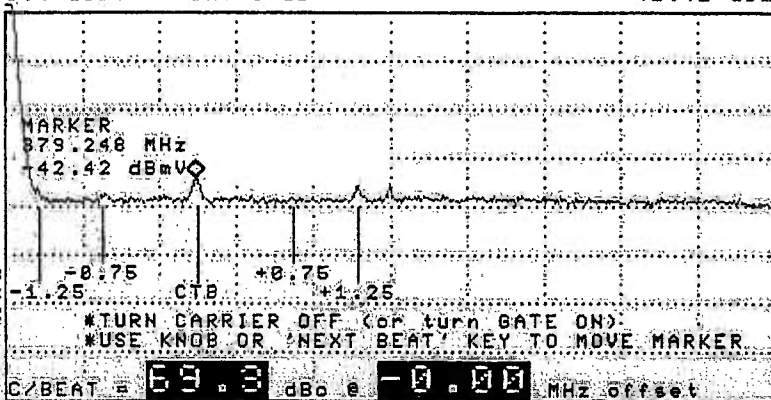
ZOOM &
 MEASURE
 NEXT
 BEAT
 More
 MAIN
 MENU

11:42:57 JAN 14, 2003
 CHANNEL **50** (STD)
 REF -8.4 dBmV #AT 0 dB

MRK 879.248 MHz
 -42.42 dBmV

SMPL
 LOG
 10
 dB/

VA WB
 SC FC
 CORR



START 877.768 MHz STOP 883.768 MHz
 #RES BW 80 kHz #VBW 100 Hz SWP 6.00 sec

CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF

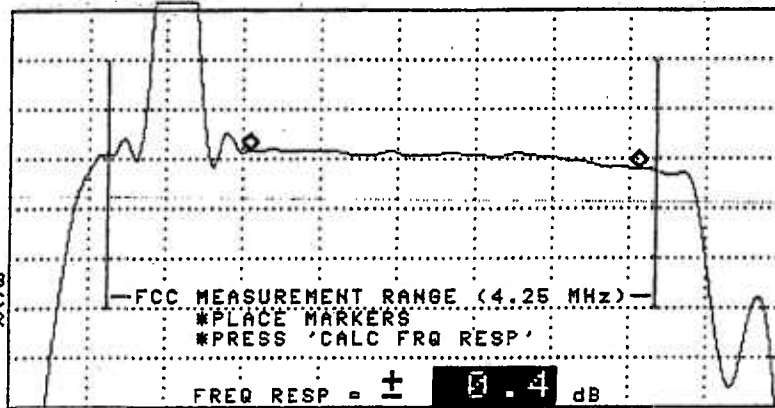
ZOOM &
 MEASURE
 NEXT
 BEAT
 More
 MAIN
 MENU

11:55:44 JAN 14, 2003
CHANNEL 3 (STD)
REF -6.4 dBmV #AT 0 dB

MKR 64.875 MHz CHNL
-12.89 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

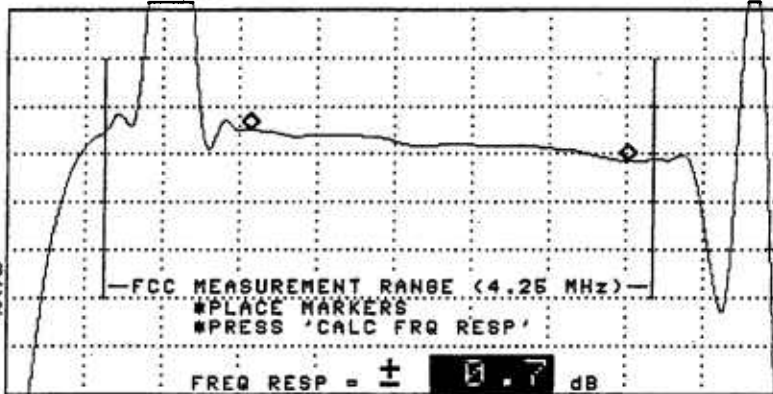
START 60.000 MHz STOP 66.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

11:57:36 JAN 14, 2003
CHANNEL 3 (STD)
REF -5.1 dBmV #AT 0 dB

MKR 208.815 MHz CHNL
-11.42 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

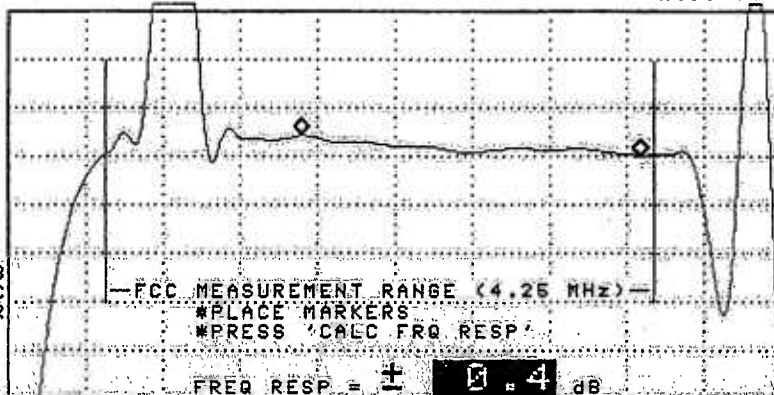
START 204.000 MHz STOP 210.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

11:59:37 JAN 14, 2003
CHANNEL 3 (STD)
REF -5.0 dBmV #AT 0 dB

MKR 130.985 MHz CHNL
-11.96 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

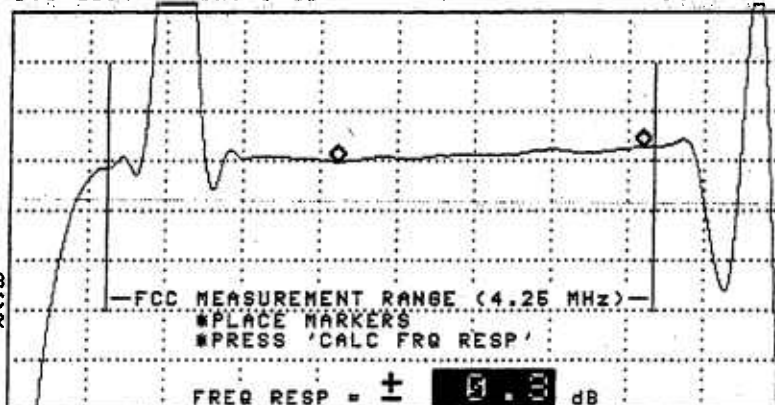
START 126.000 MHz STOP 132.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

12:02:32 JAN 14, 2003
CHANNEL 2 (STD)
REF -3.8 dBmV #AT 0 dB

MKR 236.635 MHz
-9.88 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



START 234.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 240.000 MHz SWP 20.0 msec

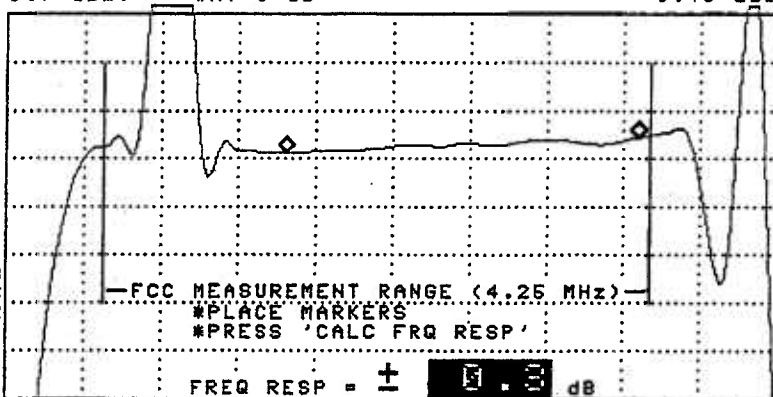
MAIN
MENU

12:04:16 JAN 14, 2003
CHANNEL 2 (STD)
REF -3.7 dBmV #AT 0 dB

MKR 284.175 MHz
-9.45 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



START 282.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 288.000 MHz SWP 20.0 msec

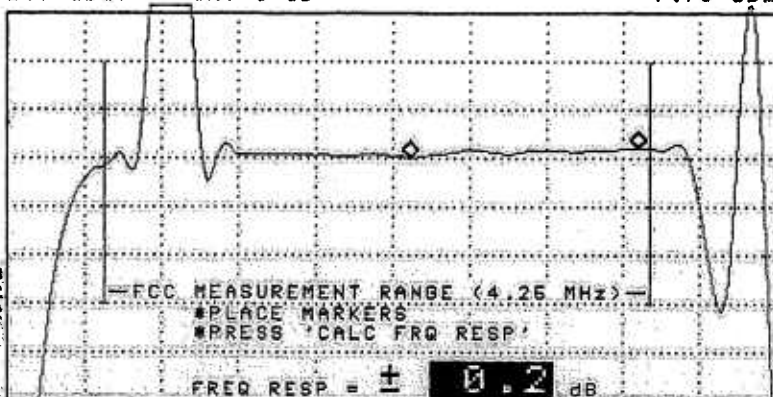
MAIN
MENU

12:05:37 JAN 14, 2003
CHANNEL 3 (STD)
REF -1.7 dBmV #AT 0 dB

MKR 327.135 MHz
-7.78 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



START 324.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 330.000 MHz SWP 20.0 msec

MAIN
MENU

12:08:49 JAN 14, 2003

CHANNEL 51 (STD)

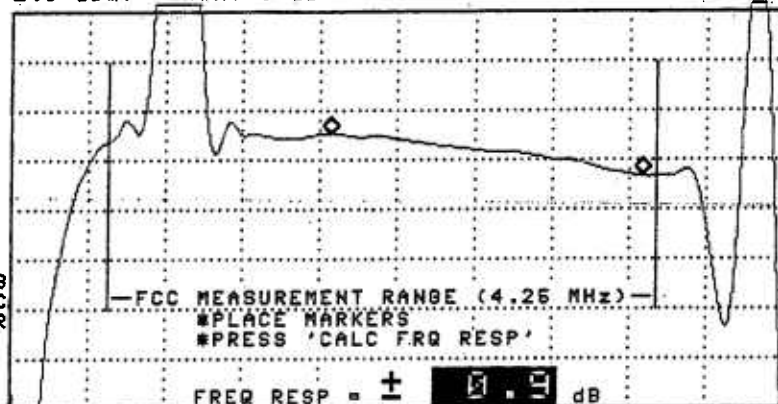
REF -1.6 dBmV #AT 0 dB

MKR 382.985 MHz

-8.25 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 378.000 MHz

#RES BW 100 kHz

#VBW 3 MHz

STOP 384.000 MHz

SWP 20.0 msec

12:10:03 JAN 14, 2003

CHANNEL 52 (STD)

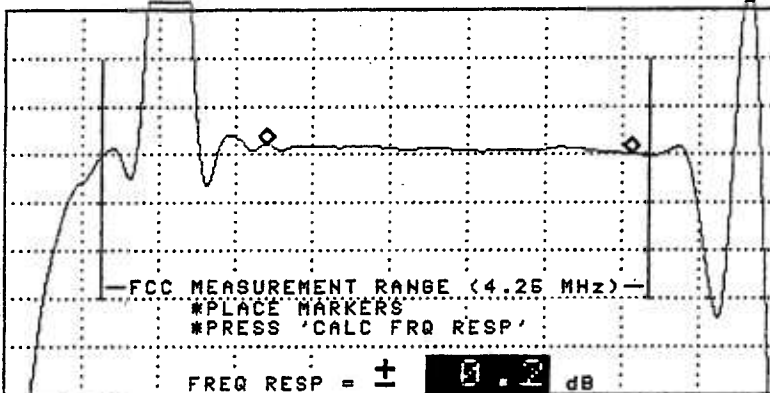
REF -1.1 dBmV #AT 0 dB

MKR 454.875 MHz

-7.07 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 450.000 MHz

#RES BW 100 kHz

#VBW 3 MHz

STOP 456.000 MHz

SWP 20.0 msec

12:11:35 JAN 14, 2003

CHANNEL 53 (STD)

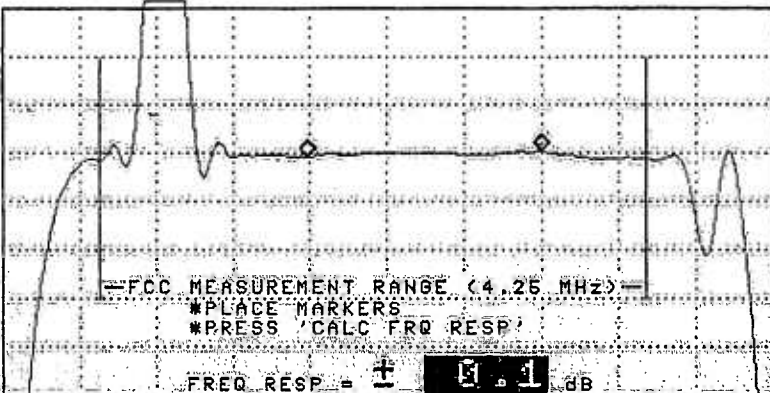
REF -.10 dBmV #AT 0 dB

MKR 548.985 MHz

-6.19 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 546.000 MHz

#RES BW 100 kHz

#VBW 3 MHz

STOP 552.000 MHz

SWP 20.0 msec

TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

WATER ST. / WATERTOWN

Date:

01/29/03

Performed by:

DENIS RHUBART

Meter Serial Number:

9253718

Chan	Freq (MHz)	Time				Max Var	Chan	Freq (MHz)	Time				Max Var
		13	16	25	19				13	16	25	19	
		3:54	8:53	16:53	21:53				3:54	8:53	16:53	21:53	
		Visual Level (dbmV)							Visual Level (dbmV)				
2	55.2500	9.7	9.8	9.7	9.9	0.2	DD(40)	319.2625	12.7	12.4	12.8	12.3	0.5
3	61.2500	9.6	9.5	10.3	10.0	0.8	EE(41)	325.2625	12.6	12.6	12.7	12.9	0.3
4	67.2500	9.6	10.4	10.0	10.4	0.8	FF(42)	331.2750	12.8	12.9	12.9	12.8	0.1
5	77.2500	9.7	9.6	9.8	10.0	0.4	GG(43)	337.2625	13.6	14.0	13.9	13.5	0.5
6	83.2500	9.7	9.8	9.2	9.8	0.6	HH(44)	343.2625	13.0	13.1	13.4	12.6	0.8
A-5(95)	91.2500						II(45)	349.2625	13.3	12.9	12.7	12.3	1
A-4(96)	97.2500	9.5	9.4	9.9	9.9	0.5	JJ(46)	355.2625	13.3	13.0	12.5	12.5	0.8
A-3(97)	103.2500	9.9	10.4	9.7	10.2	0.7	KK(47)	361.2625	14.0	13.9	13.2	13.1	0.9
A-2(98)	109.2750						LL(48)	367.2625	14.1	14.9	14.4	14.2	0.8
A-1(99)	115.2750	10.9	11.4	11.2	10.7	0.7	MM(49)	373.2625	13.6	13.6	14.3	13.2	1.1
A(14)	121.2625	10.7	10.5	11.8	11.2	1.1	NN(50)	379.2625	14.3	14.3	14.1	14.4	0.3
B(15)	127.2625	10.8	11.3	12.1	11.2	1.3	OO(51)	385.2625	14.1	13.9	14.0	13.5	0.6
C(16)	133.2625	11.1	10.6	11.6	11.0	1	PP(52)	391.2625	13.9	13.4	13.8	13.5	0.5
D(17)	139.2500	10.2	10.9	10.5	10.4	0.7	QQ(53)	397.2625	13.4	13.1	13.2	13.5	0.4
E(18)	145.2500	10.7	11.2	11.7	11.7	1	RR(54)	403.2500	13.5	13.2	12.9	12.7	0.8
F(19)	151.3210	10.7	11.0	11.5	11.2	0.8	SS(55)	409.2500	12.7	12.8	12.9	13.3	0.6
G(20)	157.2500	10.1	10.2	10.5	10.5	0.4	TT(56)	415.2500	12.8	13.1	13.1	12.9	0.3
H(21)	163.2500	11.2	10.8	11.4	11.0	0.6	UU(57)	421.2500	12.5	13.3	12.8	12.7	0.8
I(22)	169.2500	11.1	10.9	11.3	11.5	0.6	VV(58)	427.2500	12.8	13.2	12.3	12.6	0.9
7	175.2500	11.3	10.7	11.8	11.8	1.1	WW(59)	433.2500	13.2	13.1	13.4	13.1	0.3
8	181.2500	11.8	11.8	12.1	11.9	0.3	XX(60)	439.2500	13.4	13.5	13.8	13.6	0.4
9	187.2500	12.2	12.3	12.3	12.3	0.1	YY(61)	445.2500	13.5	13.3	13.6	13.7	0.4
10	193.2500	13.5	13.5	13.0	13.5	0.5	ZZ(62)	451.2500	13.2	13.4	13.1	13.0	0.4
11	199.2500	12.5	12.3	12.8	12.5	0.5	63	457.2500	13.5	13.4	13.0	13.0	0.5
12	205.2500	11.1	11.2	11.1	10.9	0.3	64	463.2500	14.3	14.5	13.9	13.8	0.7
13	211.2500	11.5	11.4	11.2	11.3	0.3	65	469.2500	14.0	13.6	13.7	13.8	0.4
J(23)	217.2500	10.9	10.6	10.7	10.7	0.3	66	475.2500	13.2	13.1	13.1	13.4	0.3
K(24)	223.2500	10.1	9.1	9.0	9.1	1.1	67	481.2500	12.6	12.7	13.0	12.9	0.4
L(25)	229.2625	9.4	9.6	9.8	9.3	0.5	68	487.2500	13.9	13.9	13.9	13.7	0.2
M(26)	235.2625	10.6	10.3	10.1	9.7	0.9	69	493.2500	13.2	13.6	13.4	13.5	0.4
N(27)	241.2625	10.6	10.9	10.7	10.5	0.4	70	499.2500	14.1	14.0	14.2	13.9	0.3
O(28)	247.2625	11.2	10.4	10.7	10.4	0.8	71	505.2500	14.2	13.8	13.9	13.5	0.7
P(29)	253.2625	10.9	10.4	11.4	10.4	1	72	511.2500	14.4	14.3	14.8	14.3	0.5
Q(30)	259.2625	11.5	11.3	11.4	12.2	0.9	73	517.2500	14.4	14.3	14.3	14.0	0.4
R(31)	265.2625	11.7	11.7	11.7	11.9	0.2	74	523.2500	14.5	14.3	13.9	14.0	0.6
S(32)	271.2625	12.9	12.6	12.9	12.7	0.3	75	529.2500	14.6	14.8	14.4	14.3	0.5
T(33)	277.2625	12.2	11.7	12.3	12.0	0.6	76	535.2500					
U(34)	283.2625	12.2	11.9	11.9	11.9	0.3	77	541.2500					
V(35)	289.2625	12.5	12.2	11.9	12.2	0.6	78	547.2500	14.2	13.8	13.5	13.3	0.9
W(36)	295.2625	10.7	10.9	10.9	11.2	0.5	79	553.0000					
AA(37)	301.2625	12.1	12.3	12.0	12.7	0.7	80	559.0000					
BB(38)	307.2625	11.9	11.7	12.2	11.5	0.7	81	565.0000					
CC(39)	313.2625	13.1	12.9	13.0	12.8	0.3							

Max NonAdjacent Channel Level Diff.

5.8

Max Adjacent Channel Level Diff.

1.8

Max Variance from last proof-of-performance test

1.30

Date of last proof-of-performance test

N/A

Note: Make measurements through a 100 ft. test drop cable without a converter

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name: Carthage / Watertown

System Test Point # 7

Hub Name: PHILADELPHIA

Location / Community: RT.11 NORTH / PHILADELPHIA

Map Number: 449-6034

Pole Number: PED

D.T. Value: 23-2

OR Number: 613

GNA Cascade: 4

LE Cascade: 1

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: RT.11 NORTH / PHILADELPHIA
Date: 01/22/03
Time: 10:53

Chan	Freq (MHz)	Visual Level (dBmV)	Aural Level (dBmV)	SC (dB)	Diff (dBmV)	Chan	Freq (MHz)	Visual Level (dBmV)	Aural Level (dBmV)	SC (dB)	Diff (dBmV)
2	55.2500	11.1	-3.6		14.7	DD(40)	319.2625	13.8	-0.3		14.1
3	61.2500	11.8	-1.6		13.4	EE(41)	325.2625	13.7	-0.6		14.3
4	67.2500	11.8	-1.7		13.5	FF(42)	331.2750	14.6	-0.7		15.3
5	77.2500	11.0	-3.9		14.9	GG(43)	337.2625	13.0	-1.2		14.2
6	83.2500	11.2	-3.5		14.7	HH(44)	343.2625	14.0	0.9		13.1
A-5(95)	91.2500	N/A	N/A		N/A	II(45)	349.2625	14.6	0.0		14.6
A-4(96)	97.2500	11.7	-2.8		14.5	JJ(46)	355.2625	14.2	-0.5		14.7
A-3(97)	103.2500	N/A	N/A		N/A	KK(47)	361.2625	14.3	-0.2		14.5
A-2(98)	109.2750	N/A	N/A		N/A	LL(48)	367.2625	13.8	0.2		13.6
A-1(99)	115.2750	11.4	-3.1		14.5	MM(49)	373.2625	14.2	-0.2		14.4
A(14)	121.2625	11.0	-3.3		14.3	NN(50)	379.2625	14.6	0.2		14.4
B(15)	127.2625	11.0	-3.4		14.4	OO(51)	385.2625	15.0	-0.1		15.1
C(16)	133.2625	11.5	-3.1		14.6	PP(52)	391.2625	14.4	1.1		13.3
D(17)	139.2500	11.3	-3.1		14.4	QQ(53)	397.2625	14.7	0.1		14.6
E(18)	145.2500	11.6	-2.8		14.4	RR(54)	403.2500	14.7	-0.1		14.8
F(19)	151.3210	11.7	-2.8		14.5	SS(55)	409.2500	14.6	0.0		14.6
G(20)	157.2500	11.3	-3.6		14.9	TT(56)	415.2500	15.2	0.5		14.7
H(21)	163.2500	11.1	-3.1		14.2	UU(57)	421.2500	15.0	0.5		14.5
I(22)	169.2500	11.2	-1.9		13.1	VV(58)	427.2500	14.9	1.3		13.6
7	175.2500	11.8	-2.7		14.3	WW(59)	433.2500	15.4	1.2		14.2
8	181.2500	12.0	-2.8		14.8	XX(60)	439.2500	15.7	0.6		15.1
9	187.2500	13.6	-0.1		13.7	YY(61)	445.2500	15.5	2.1		13.4
10	193.2500	14.0	-0.4		14.4	ZZ(62)	451.2500	15.8	0.7		15.1
11	199.2500	13.7	0.1		13.6	63	457.2500	15.5	1.5		14.0
12	205.2500	13.3	-1.1		14.4	64	463.2500	16.1	1.2		14.9
13	211.2500	13.6	-0.4		14.0	65	469.2500	16.3	1.7		14.6
J(23)	217.2500	12.8	-0.8		13.6	66	475.2500	15.6	1.3		14.3
K(24)	223.2500	12.8	-1.3		14.1	67	481.2500	15.4	0.9		14.5
L(25)	229.2625	12.8	-1.6		14.4	68	487.2500	16.4	2.3		14.1
M(26)	235.2625	12.9	-0.9		13.8	69	493.2500	15.6	1.6		14.0
N(27)	241.2625	13.0	-1.5		14.5	70	499.2500	16.7	1.9		14.8
O(28)	247.2625	12.8	-1.2		14.0	71	505.2500	16.7	2.9		13.8
P(29)	253.2625	12.2	-2.4		14.6	72	511.2500	17.2	2.8		14.4
Q(30)	259.2625	11.3	-2.0		13.3	73	517.2500	16.9	2.1		14.8
R(31)	265.2625	12.6	-1.0		13.6	74	523.2500	16.8	3.5		13.3
S(32)	271.2625	14.4	0.3		14.1	75	529.2500	16.9	3.1		13.8
T(33)	277.2625	14.8	0.9		13.9	76	535.2500	N/A	N/A		N/A
U(34)	283.2625	14.9	0.7		14.2	77	541.2500	N/A	N/A		N/A
V(35)	289.2625	14.6	0.9		13.7	78	547.2500	16.1	1.8		14.2
W(36)	295.2625	14.3	-0.7		15.0	79	553.0000	N/A	N/A		N/A
AA(37)	301.2625	14.4	-0.5		14.9	80	559.0000	N/A	N/A		N/A
BB(38)	307.2625	13.5	-0.7		14.2	81	565.0000	N/A	N/A		N/A
CC(39)	313.2625	14.4	0.3		14.1						

Min Channel : 5
Max Channel : 72

11
17.2

PEAK TO VALLEY: 6.20

TIME WARNER CABLE -- SYRACUSE DIVISION

IN CHANNEL RESPONSE Test
CARRIER - TO - NOISE Test
COHERENT DISTURBANCES Test
LOW FREQUENCY DISTURBANCES Test

System Name: Carthage / Watertown

Date: January 16, 2003

Test Performed By: MARK FAVRET

Location: RT.11 NORTH / PHILADELPHIA

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	Channel Response (dB)	Carrier To Noise Ratio (dB)	Distortions (dBc) CTB	CSO	HUM (%)
3	0.5	49.6	65.4	69.5	0.3
12	0.5	50.1	66.2	69.2	
15	0.4	49.3	67.2	62.6	
26	0.1	49.0	66.8	65.2	
34	0.4	50.5	68.2	64.8	
41	0.2	50.3	67.4	71.9	
50	0.8	51.6	67.8	68.0	
62	0.3	50.8	68.5	69.5	
78	0.2	48.4	60.6	64.9	

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 16, 2003

Test Performed By: MARK FAVRET

Location: RT.11 NORTH / PHILADELPHIA

(SEE THE ATTACHED SWEEP TRACES)

12:92:17 JAN 15, 2009
CHANNEL (STD)
REF 11.1 dBmV AT 10 dB

MKR A 8.2500 msec
-0.02 dB

CH11

PEAK
LOG
1
dB/

WA SB
SC FC
CORR

HUM/LOW FREQ DISTURBANCES = 0.3%
Video Modulation: OFF

MORE
INFO

MAIN
MENU

START 61.248 MHz
#RES BW 1.0 MHz

#VBW 1 kHz

STOP 61.248 MHz
#SWP 50.0 msec

12:55:14 JAN 16, 2003

CHANNEL 50 (STD)
REF -5.6 dBmV #AT 0 dB

MKR 380.043 MHz
-43.40 dBmV

CHIL

GATE
ON OFF

SMPL
LOG
10
dB/

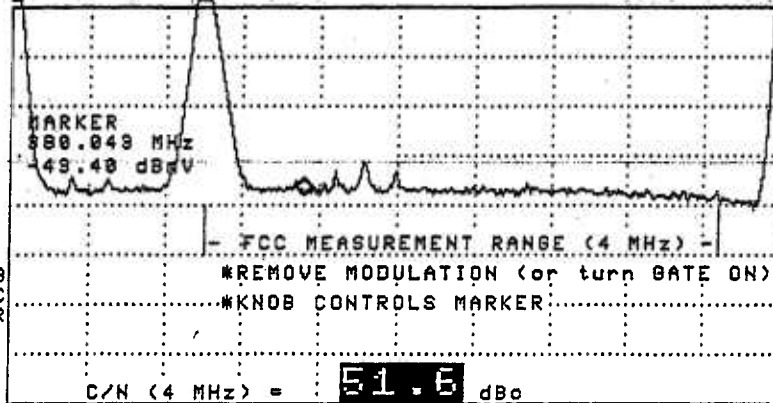
AVERAGE
ON OFF

VA WB
SC FC
CORR

MORE
INFO

More

MAIN
MENU



START 377.763 MHz #RES BW 30 kHz #VBW 100 Hz STOP 383.763 MHz SWP 6.00 sec

12:52:47 JAN 16, 2003

CHANNEL 51 (STD)
REF -12.4 dBmV #AT 0 dB

MKR 326.507 MHz
-46.27 dBmV

CHIL

GATE
ON OFF

SMPL
LOG
10
dB/

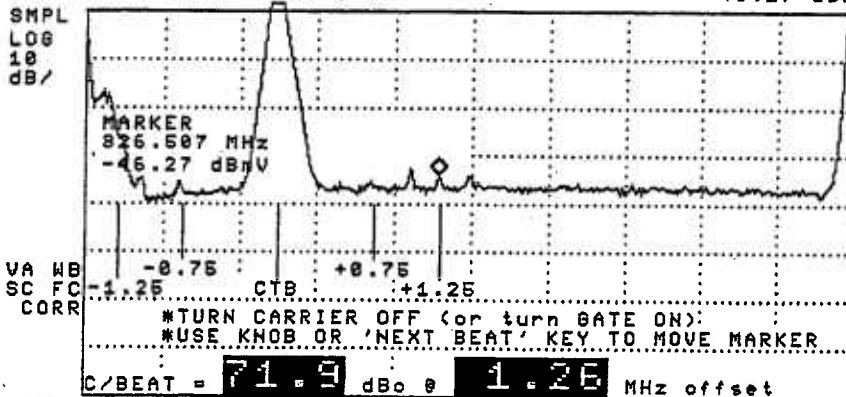
AVERAGE
ON OFF

ZOOM &
MEASURE

NEXT
BEAT

More

MAIN
MENU



START 329.762 MHz #RES BW 30 kHz #VBW 100 Hz STOP 329.762 MHz SWP 6.00 sec

12:59:14 JAN 16, 2003

CHANNEL 52 (STD)
REF -10.9 dBmV #AT 0 dB

MKR 451.250 MHz
-44.51 dBmV

CHIL

GATE
ON OFF

SMPL
LOG
10
dB/

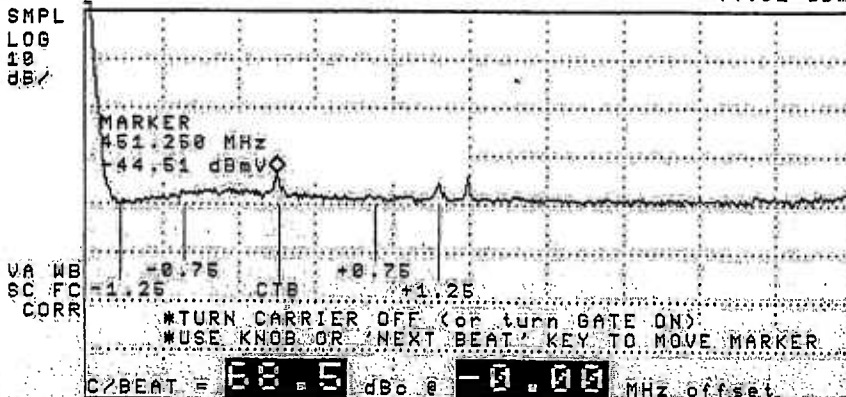
AVERAGE
ON OFF

ZOOM &
MEASURE

NEXT
BEAT

More

MAIN
MENU



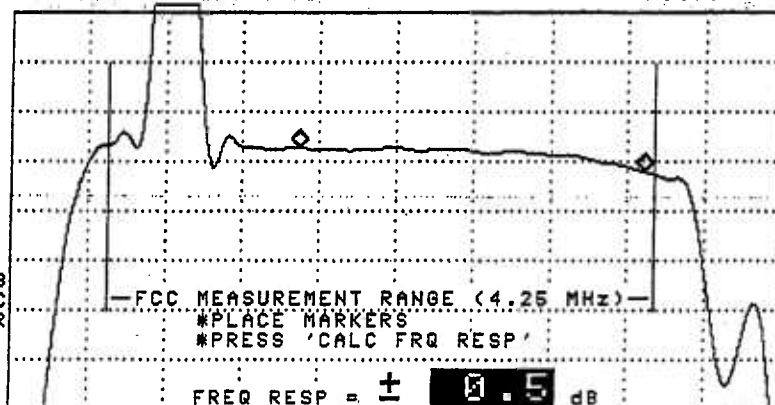
START 449.750 MHz #RES BW 30 kHz #VBW 100 Hz STOP 455.750 MHz SWP 6.00 sec

18:03:26 JAN 16, 2008
 CHANNEL 3 (STD)
 REF -7.9 dBmV #AT 0 dB

MKR 64.935 MHz CH11
 -19.70 dBmV MARKER 1

PEAK
 LOG
 2
 dB/

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

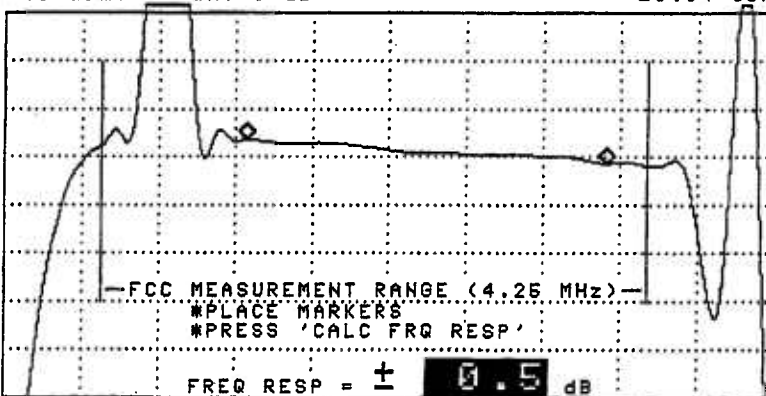
START 60.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 66.000 MHz SWP 20.0 msec

18:04:25 JAN 16, 2008
 CHANNEL 3 (STD)
 REF -4.0 dBmV #AT 0 dB

MKR 208.695 MHz CH11
 -10.84 dBmV MARKER 1

PEAK
 LOG
 2
 dB/

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

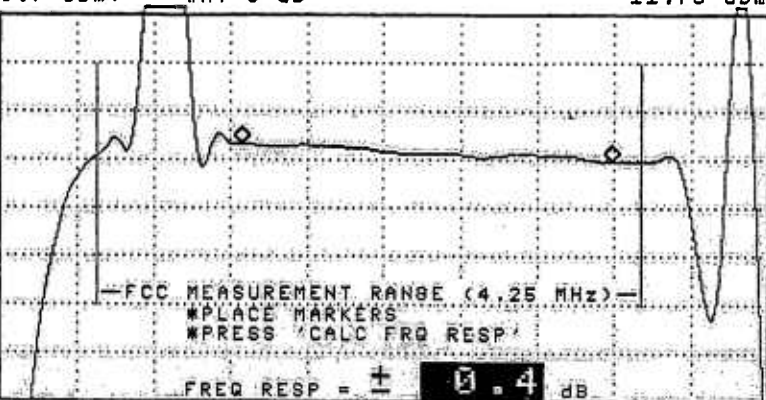
START 204.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 210.000 MHz SWP 20.0 msec

18:05:43 JAN 16, 2008
 CHANNEL 3 (STD)
 REF -5.7 dBmV #AT 0 dB

MKR 130.785 MHz CH11
 -11.75 dBmV MARKER 1

PEAK
 LOG
 2
 dB/

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

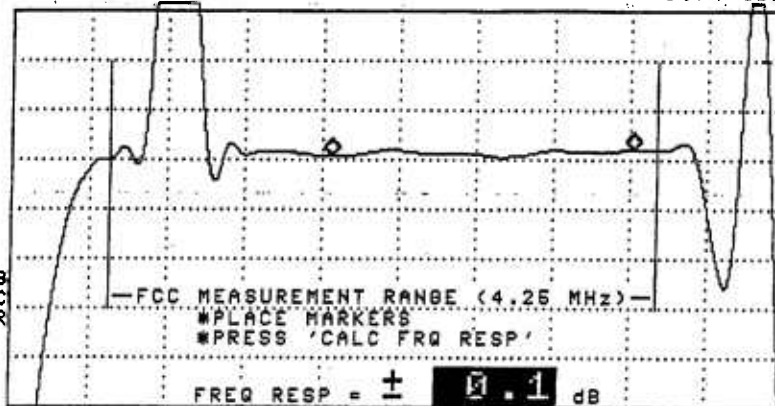
START 126.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 132.000 MHz SWP 20.0 msec

13:08:19 JAN 16, 2003
CHANNEL 33 (STD)
REF -2.9 dBmV #AT 0 dB

MKR 296.475 MHz CHNL
-8.74 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

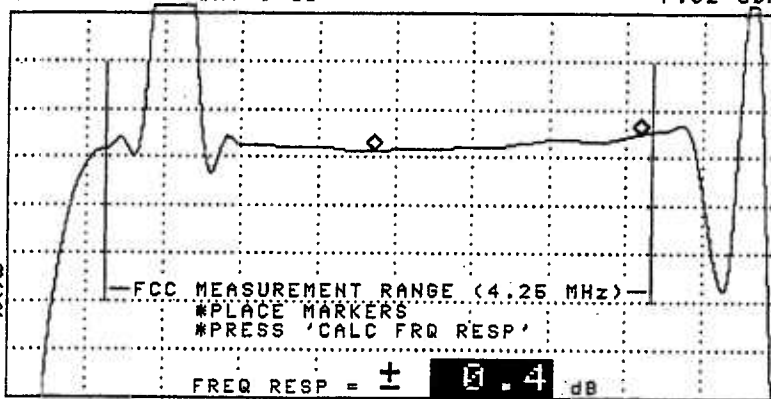
START 294.000 MHz STOP 298.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

13:10:05 JAN 16, 2003
CHANNEL 34 (STD)
REF -1.2 dBmV #AT 0 dB

MKR 284.835 MHz CHNL
-7.02 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

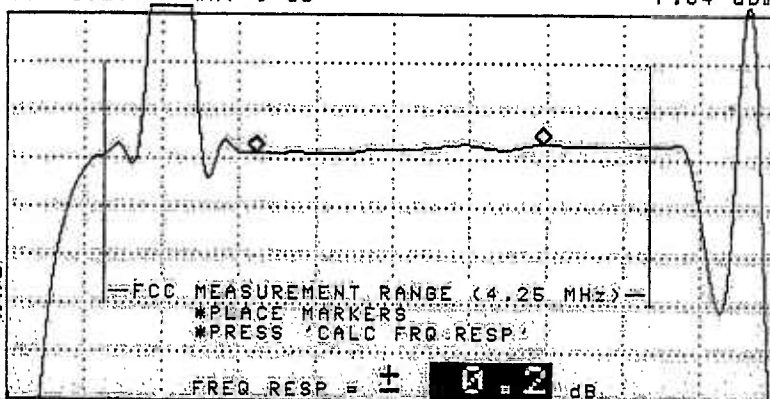
START 282.000 MHz STOP 286.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

13:11:11 JAN 16, 2003
CHANNEL 41 (STD)
REF -2.0 dBmV #AT 0 dB

MKR 325.935 MHz CHNL
-7.84 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 324.000 MHz STOP 328.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

13:12:24 JAN 16, 2003
 CHANNEL 60 (STD)
 REF -2.4 dBmV #AT 0 dB
 PEAK
 LOG
 2
 dB/

MKR 382.815 MHz CHIL
 -9.68 dBmV MARKER 1

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

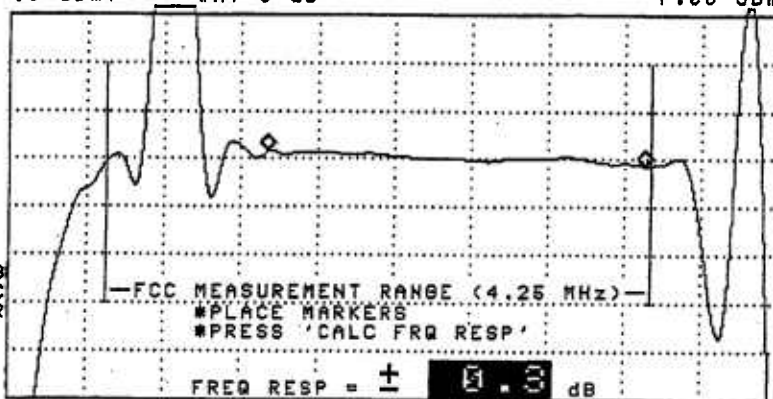
MAIN
 MENU

START 378.000 MHz STOP 384.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

13:13:28 JAN 16, 2003
 CHANNEL 62 (STD)
 REF -0.8 dBmV #AT 0 dB
 PEAK
 LOG
 2
 dB/

MKR 454.965 MHz CHIL
 -7.08 dBmV MARKER 1

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

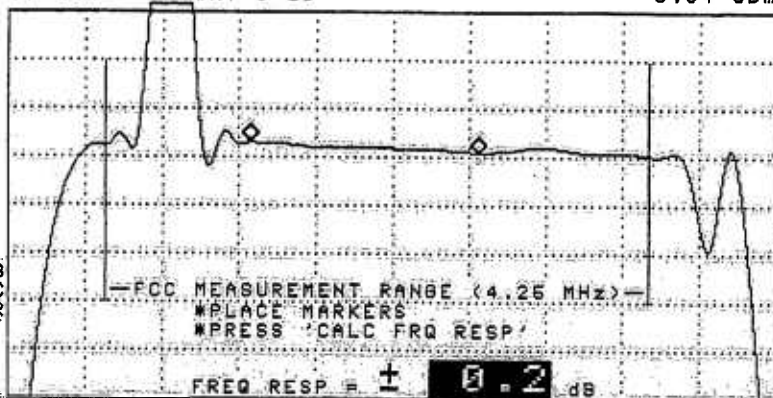
MAIN
 MENU

START 450.000 MHz STOP 456.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

13:14:41 JAN 16, 2003
 CHANNEL 73 (STD)
 REF -0.7 dBmV #AT 0 dB
 PEAK
 LOG
 2
 dB/

MKR 549.675 MHz CHIL
 -6.54 dBmV MARKER 1

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

START 546.000 MHz STOP 552.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

RT.11 NORTH / PHILADELPHIA

Date:

01/22/03

Performed by:

DENIS RHUBART

Meter Serial Number:

6463559

		Temp. 1								Temp. 2					
		1	0	4	7				1	0	4	7			
		Time							Time						
		10:53	16:53	22:53	4:53	Max			10:53	16:53	22:53	4:53	Max		
Chan	Freq (MHz)	Visual Level (dBmV)					Val	Chan	Freq (MHz)	Visual Level (dBmV)					Val
2	55.2500	11.1	11.4	11.1	11.2	0.3	DD(40)	319.2625	13.8	13.8	14.1	14.0	0.3		
3	61.2500	11.8	11.6	11.4	11.6	0.4	EE(41)	325.2625	13.7	13.2	13.7	13.8	0.6		
4	67.2500	11.8	11.1	11.5	11.2	0.7	FF(42)	331.2750	14.6	13.9	13.8	14.4	0.8		
5	77.2500	11.0	11.6	11.8	11.7	0.8	GG(43)	337.2625	13.0	13.1	13.6	12.9	0.7		
6	83.2500	11.2	11.6	11.6	11.7	0.5	HH(44)	343.2625	14.0	13.7	13.8	13.9	0.3		
A-5(95)	91.2500						II(45)	349.2625	14.6	14.5	14.7	14.5	0.2		
A-4(96)	97.2500	11.7	11.9	11.8	11.6	0.3	JJ(46)	355.2625	14.2	14.3	14.1	14.1	0.2		
A-3(97)	103.2500						KK(47)	361.2625	14.3	14.9	14.8	14.7	0.6		
A-2(98)	109.2750						LL(48)	367.2625	13.8	13.7	13.7	13.6	0.2		
A-1(99)	115.2750	11.4	11.8	11.5	11.4	0.4	MM(49)	373.2625	14.2	14.1	14.4	14.3	0.3		
A(14)	121.2625	11.0	11.1	11.4	11.4	0.4	NN(50)	379.2625	14.6	14.8	14.7	14.9	0.3		
B(15)	127.2625	11.0	11.1	11.2	11.4	0.4	OO(51)	385.2625	15.0	15.3	15.3	15.0	0.3		
C(16)	133.2625	11.5	11.1	11.1	11.4	0.4	PP(52)	391.2625	14.4	14.5	14.7	14.6	0.3		
D(17)	139.2500	11.3	11.3	11.8	10.7	1.1	QQ(53)	397.2625	14.7	14.2	14.8	14.8	0.6		
E(18)	145.2500	11.6	11.8	11.9	10.9	1	RR(54)	403.2500	14.7	14.7	14.8	14.5	0.2		
F(19)	151.3210	11.7	12.4	12.4	12.7	1	SS(55)	409.2500	14.6	14.9	15.3	15.2	0.7		
G(20)	157.2500	11.3	11.5	11.8	11.6	0.5	TT(56)	415.2500	15.2	15.0	15.1	15.4	0.4		
H(21)	163.2500	11.1	11.5	11.8	11.6	0.7	UU(57)	421.2500	15.0	15.0	14.7	14.6	0.4		
I(22)	169.2500	11.2	11.6	11.8	11.7	0.6	VV(58)	427.2500	14.9	15.6	15.2	15.4	0.7		
7	175.2500	11.6	12.1	11.8	12.2	0.6	WW(59)	433.2500	15.4	15.8	16.0	16.0	0.6		
8	181.2500	12.0	12.6	12.9	12.8	0.9	XX(60)	439.2500	15.7	15.5	15.4	15.5	0.3		
9	187.2500	13.6	13.7	13.9	14.0	0.4	YY(61)	445.2500	15.5	16.2	15.5	15.0	1.2		
10	193.2500	14.0	14.4	14.6	14.5	0.6	ZZ(62)	451.2500	15.8	16.0	15.8	15.6	0.4		
11	199.2500	13.7	14.6	14.6	14.7	1	63	457.2500	15.5	15.3	15.4	15.5	0.2		
12	205.2500	13.3	13.8	13.9	13.9	0.6	64	463.2500	16.1	16.4	16.3	16.7	0.6		
13	211.2500	13.6	14.4	14.5	14.5	0.9	65	469.2500	16.3	16.2	16.3	16.2	0.1		
J(23)	217.2500	12.8	13.2	13.4	13.4	0.6	66	475.2500	15.6	16.0	15.9	16.1	0.5		
K(24)	223.2500	12.8	12.9	13.4	13.1	0.6	67	481.2500	15.4	15.1	15.3	15.3	0.3		
L(25)	229.2625	12.8	12.8	12.9	13.1	0.3	68	487.2500	16.4	16.3	16.5	16.2	0.3		
M(26)	235.2625	12.9	12.7	12.8	12.7	0.2	69	493.2500	15.6	16.0	15.9	15.9	0.4		
N(27)	241.2625	13.0	13.0	13.1	13.1	0.1	70	499.2500	16.7	17.1	16.7	16.6	0.5		
O(28)	247.2625	12.8	12.4	12.6	12.9	0.5	71	505.2500	16.7	17.1	16.9	17.0	0.4		
P(29)	253.2625	12.2	11.9	12.2	12.5	0.6	72	511.2500	17.2	16.9	16.8	17.0	0.4		
Q(30)	259.2625	11.3	11.9	12.7	12.0	1.4	73	517.2500	16.9	17.0	17.0	17.0	0.1		
R(31)	265.2625	12.6	12.1	12.1	12.4	0.5	74	523.2500	16.8	17.2	17.0	17.3	0.5		
S(32)	271.2625	14.4	14.0	13.6	14.1	0.8	75	529.2500	16.9	17.1	17.5	17.6	0.7		
T(33)	277.2625	14.8	14.6	14.4	14.4	0.4	76	535.2500							
U(34)	283.2625	14.9	14.5	14.5	14.6	0.4	77	541.2500							
V(35)	289.2625	14.6	14.6	14.3	14.4	0.3	78	547.2500	16.1	16.5	16.6	16.5	0.5		
W(36)	295.2625	14.3	13.3	14.2	14.2	1	79	553.0000							
AA(37)	301.2625	14.4	14.1	14.3	14.4	0.3	80	559.0000							
BB(38)	307.2625	13.5	13.2	13.0	13.5	0.5	81	565.0000							
CC(39)	313.2625	14.4	14.0	14.0	13.9	0.5									

Max NonAdjacent Channel Level Diff.

6.9

Max Adjacent Channel Level Diff.

1.9

Max Variance from last proof-of-performance test

1.40

Date of last proof-of-performance test

N/A

Note: Make measurements through a 100 ft. test drop cable without a converter

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name: Carthage / Watertown

System Test Point # 8

Hub Name: CLAYTON

Location / Community: FORD ST. / LAFARGEVILLE

Map Number: 386-6054

Pole Number: 24-1 over 1

D.T. Value: 26-2

OR Number: 477

GNA Cascade: 5

LE Cascade: 1

TIME WARNER CABLE - SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: FORD ST. / LAFARGEVILLE
Date : 01/28/03
Time : 0:42

Chan	Freq	Visual Level	Aural Level	SC	Diff	Chan	Freq	Visual Level	Aural Level	SC	Diff
(MHz)	(dBmV)	(dBmV)	(dBmV)			(MHz)	(dBmV)	(dBmV)	(dBmV)		
2	55.2500	10.1	-4.1	14.2		DD(40)	319.2625	13.3	-1.9		15.2
3	61.2500	10.1	-4.0	14.1		EE(41)	325.2625	13.0	-1.7		14.7
4	67.2500	10.2	-4.7	14.9		FF(42)	331.2750	13.7	-1.4		15.1
5	77.2500	10.5	-3.7	14.2		GG(43)	337.2625	14.2	-0.3		14.5
6	83.2500	10.2	-4.8	15.0		HH(44)	343.2625	13.7	-1.1		14.8
A-5(95)	91.2500	N/A	N/A	N/A		II(45)	349.2625	13.8	0.2		13.4
A-4(96)	97.2500	10.2	-4.8	15.0		JJ(46)	355.2625	13.4	-0.5		13.9
A-3(97)	103.2500	N/A	N/A	N/A		KK(47)	361.2625	14.8	-0.5		15.3
A-2(98)	109.2750	N/A	N/A	N/A		LL(48)	367.2625	13.8	0.0		13.8
A-1(99)	115.2750	11.3	-2.5	13.8		MM(49)	373.2625	14.4	-0.4		14.8
A(14)	121.2625	10.2	-4.0	14.2		NN(50)	379.2625	15.1	0.6		14.5
B(15)	127.2625	10.6	-3.7	14.3		OO(51)	385.2625	14.6	-0.5		15.1
C(16)	133.2625	11.2	-3.1	14.3		PP(52)	391.2625	15.1	0.9		14.2
D(17)	139.2500	10.9	-3.6	14.5		QQ(53)	397.2625	14.5	-0.2		14.7
E(18)	145.2500	11.8	-2.9	14.7		RR(54)	403.2500	13.2	-2.1		15.3
F(19)	151.3210	13.1	-0.8	13.9		SS(55)	409.2500	14.3	0.2		14.1
G(20)	157.2500	12.8	-1.6	14.4		TT(56)	415.2500	14.1	-0.9		15.0
H(21)	163.2500	12.4	-1.8	14.2		UU(57)	421.2500	13.9	-1.0		14.9
I(22)	169.2500	12.7	-1.4	14.1		VV(58)	427.2500	13.9	-0.3		14.2
7	175.2500	11.7	-3.0	14.7		WW(59)	433.2500	14.9	0.2		14.7
8	181.2500	12.4	-1.9	14.3		XX(60)	439.2500	14.5	-0.5		15.0
9	187.2500	12.6	-2.0	14.6		YY(61)	445.2500	12.9	-0.5		13.4
10	193.2500	12.9	-1.9	14.8		ZZ(62)	451.2500	14.4	-0.3		14.7
11	199.2500	12.8	-1.6	14.4		83	457.2500	14.6	-0.5		15.1
12	205.2500	11.4	-2.6	14.0		84	463.2500	14.2	-0.8		15.0
13	211.2500	12.9	-1.1	14.0		85	469.2500	14.6	-0.3		14.9
J(23)	217.2500	12.2	-2.3	14.5		86	475.2500	14.1	-0.4		14.5
K(24)	223.2500	11.7	-2.4	14.1		87	481.2500	14.3	-0.5		14.8
L(25)	229.2625	11.5	-3.0	14.5		88	487.2500	15.9	1.2		14.7
M(26)	235.2625	11.8	-2.7	14.5		89	493.2500	14.0	-0.7		14.7
N(27)	241.2625	12.2	-2.2	14.4		90	499.2500	14.0	-0.5		14.5
O(28)	247.2625	11.2	-3.4	14.6		91	505.2500	14.5	-0.1		14.6
P(29)	253.2625	12.1	-1.3	13.4		92	511.2500	14.5	-0.1		14.6
Q(30)	259.2625	12.3	-2.4	14.7		93	517.2500	14.0	-0.4		14.4
R(31)	265.2625	11.9	-2.3	14.2		94	523.2500	14.4	-0.3		14.7
S(32)	271.2625	13.0	-2.2	15.2		95	529.2500	14.4	-0.6		15.0
T(33)	277.2625	13.4	-1.2	14.6		96	535.2500	N/A	N/A		N/A
U(34)	283.2625	13.4	-1.5	14.9		97	541.2500	N/A	N/A		N/A
V(35)	289.2625	13.2	-1.5	14.7		98	547.2500	13.7	-1.0		14.7
W(36)	295.2625	11.5	-2.9	14.4		99	553.0000	N/A	N/A		N/A
AA(37)	301.2625	12.7	-1.6	14.3		100	559.0000	N/A	N/A		N/A
BB(38)	307.2625	13.9	-1.1	15.0		101	565.0000	N/A	N/A		N/A
CC(39)	313.2625	13.6	-1.0	14.6							

Min Channel :- 2 10.1
Max Channel :- 68 15.9

PEAK TO VALLEY: 5.80

TIME WARNER CABLE -- SYRACUSE DIVISION

IN CHANNEL RESPONSE Test
CARRIER - TO - NOISE Test
COHERENT DISTURBANCES Test
LOW FREQUENCY DISTURBANCES Test

System Name: Carthage / Watertown

Date: January 16, 2003

Test Performed By: MARK FAVRET

Location: FORD ST. / LAFARGEVILLE

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	In- Channel Response (dB/dB)	Carrier To Noise Ratio (dB)	Distortions (dBc) CTB	CSO	HUM
3	0.8	46.8	67.1	66.1	0.3
12	0.5	49.5	65.2	64.7	
15	0.4	49.3	68.8	73.1	
26	0.2	48.1	63.2	64.3	
34	0.4	50.1	64.3	68.5	
41	0.2	49.6	62.5	66.0	
50	0.9	50.3	63.7	66.8	
62	0.2	48.9	62.4	64.4	
78	0.2	49.1	61.9	62.7	

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 16, 2003

Test Performed By: MARK FAVRET

Location: FORD ST. / LAFARGEVILLE

(SEE THE ATTACHED SWEEP TRACES)

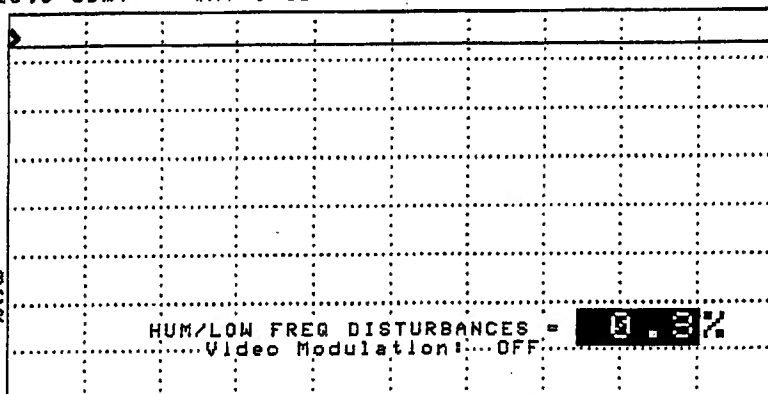
13:48:57 JAN 16, 2003
CHANNEL 3 (STD)
REF 10.0 dBmV #AT 0 dB

MKR Δ 250.00 μsec
- .03 dB

CHNL

PEAK
LOG
1
dB/

WA SB
SC FC
CORR



MORE
INFO

MAIN
MENU

START 61.218 MHz
#RES BW 1.0 MHz

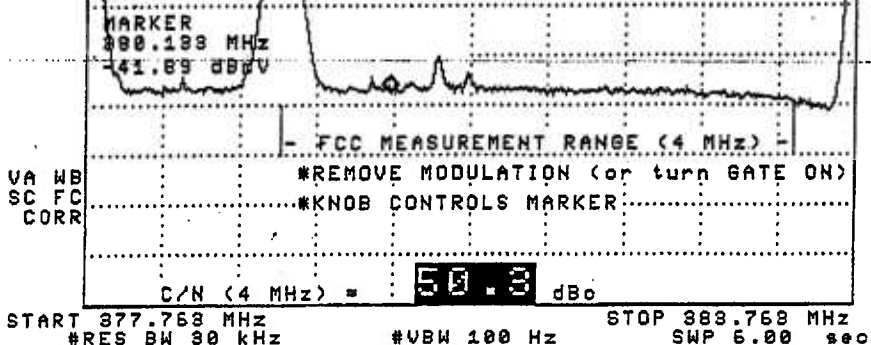
#VBW 1 kHz

STOP 61.218 MHz
#SWP 50.0 msec

14:08:05 JAN 16, 2003
 CHANNEL **50** (STD)
 REF -4.8 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 380.189 MHz
 -41.89 dBmV

CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF



MORE
 INFO

More

MAIN
 MENU

13:57:12 JAN 16, 2003
 CHANNEL **13** (STD)
 REF -13.0 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 128.491 MHz
 -46.80 dBmV

CHNL
 GATE
 ON OFF

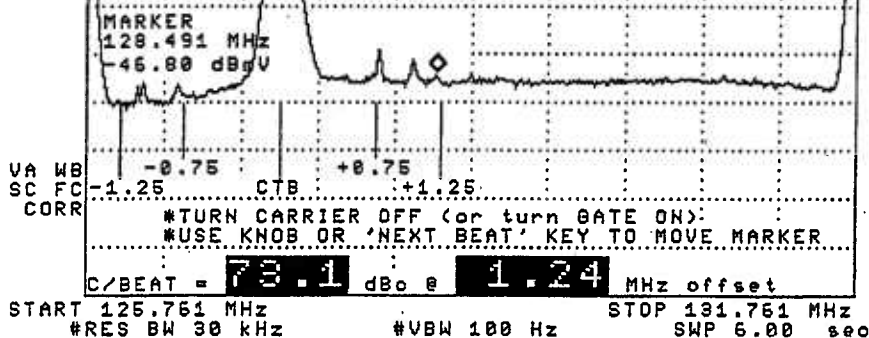
AVERAGE
 ON OFF

ZOOM &
 MEASURE

NEXT
 BEAT

More

MAIN
 MENU



13:58:11 JAN 16, 2003
 CHANNEL **13** (STD)
 REF -13.0 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 127.246 MHz
 -45.02 dBmV

CHNL
 GATE
 ON OFF

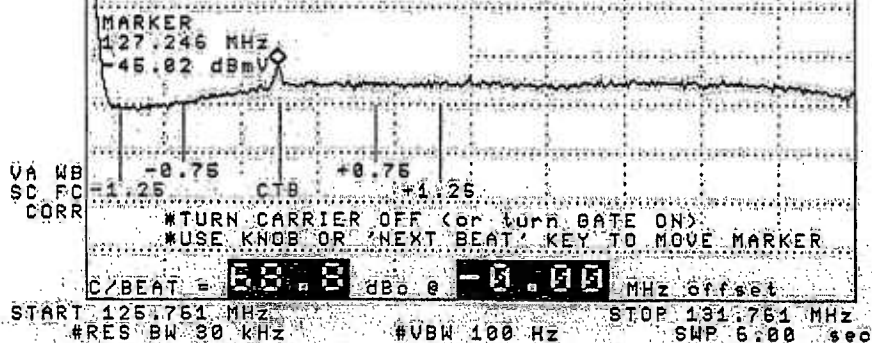
AVERAGE
 ON OFF

ZOOM &
 MEASURE

NEXT
 BEAT

More

MAIN
 MENU

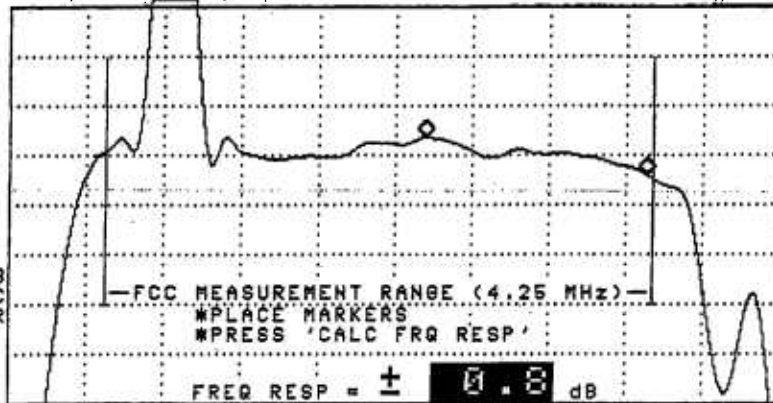


14:11:19 JAN 16, 2003
CHANNEL 3 (STD)
REF -8.2 dBmV #AT 0 dB

MKR 68.240 MHz CHNL
-19.52 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

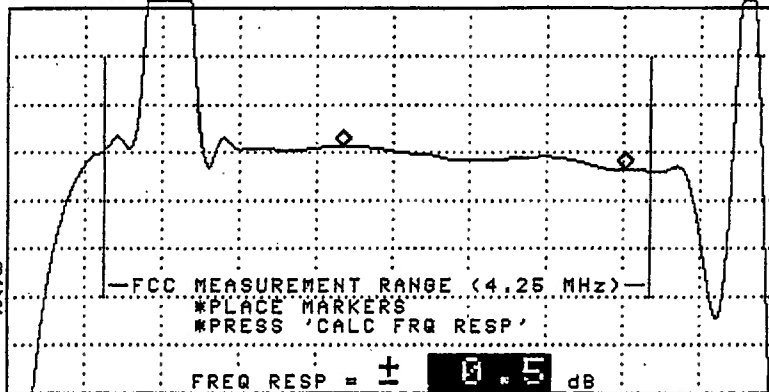
START 60.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 66.000 MHz SWP 20.0 msec

14:12:09 JAN 16, 2003
CHANNEL 12 (STD)
REF -6.2 dBmV #AT 0 dB

MKR 208.815 MHz CHNL
-11.89 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

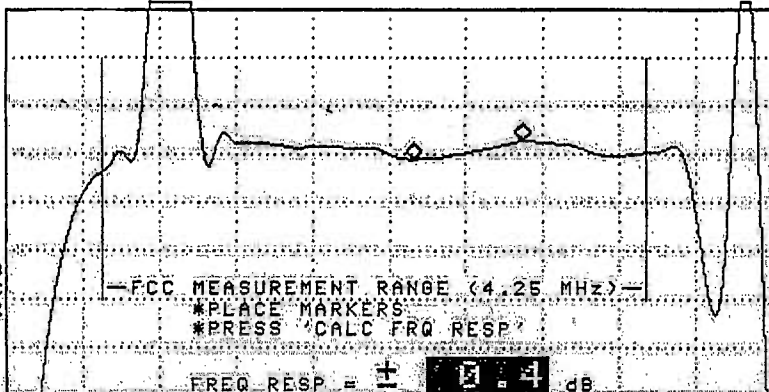
START 204.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 210.000 MHz SWP 20.0 msec

14:13:28 JAN 16, 2003
CHANNEL 15 (STD)
REF -6.1 dBmV #AT 0 dB

MKR 129.195 MHz CHNL
-12.30 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

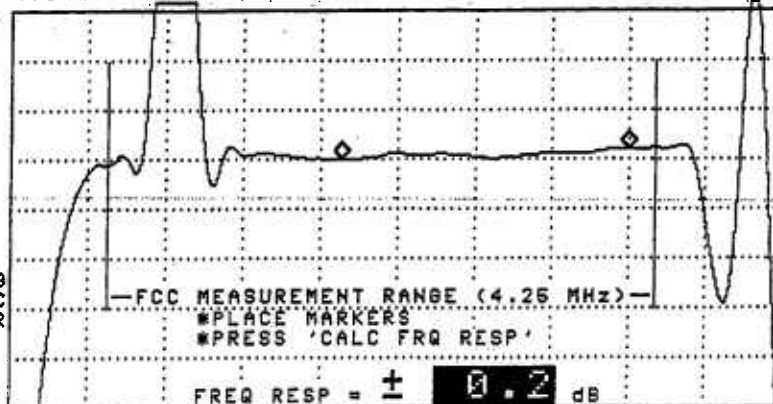
START 126.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 132.000 MHz SWP 20.0 msec

14:14:51 JAN 16, 2003
 CHANNEL 23 (STD)
 REF -4.8 dBmV #AT 0 dB

MKR 236.565 MHz CHNL
 -10.94 dBmV MARKER 1

PEAK
 LOG
 2
 dB/

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

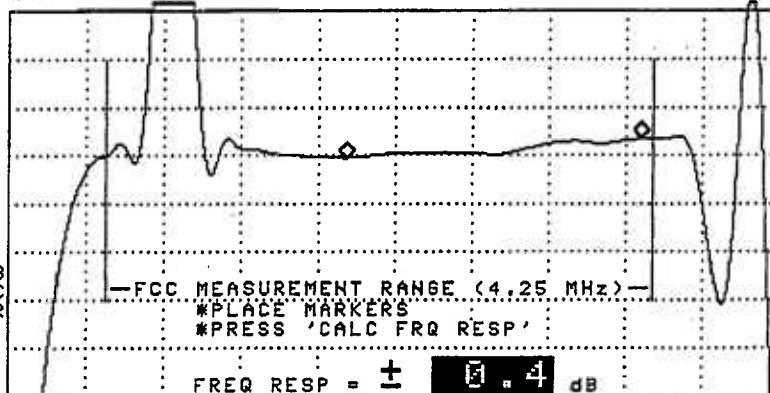
START 234.000 MHz STOP 240.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msc

14:15:51 JAN 16, 2003
 CHANNEL 34 (STD)
 REF -2.4 dBmV #AT 0 dB

MKR 284.625 MHz CHNL
 -8.57 dBmV MARKER 1

PEAK
 LOG
 2
 dB/

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

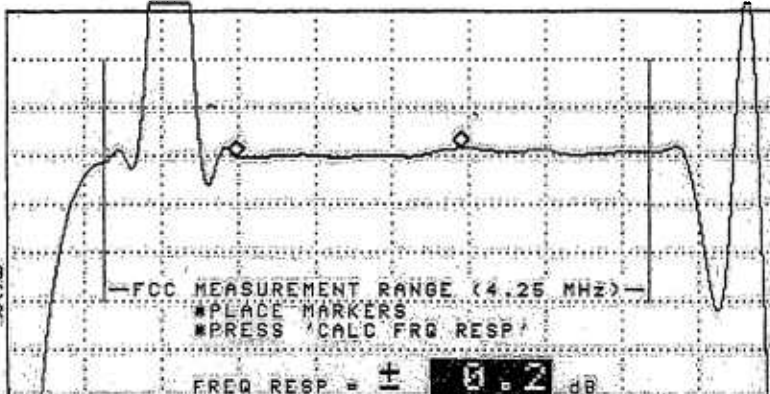
START 282.000 MHz STOP 288.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msc

14:16:50 JAN 16, 2003
 CHANNEL 34 (STD)
 REF -2.8 dBmV #AT 0 dB

MKR 325.785 MHz CHNL
 -8.93 dBmV MARKER 1

PEAK
 LOG
 2
 dB/

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

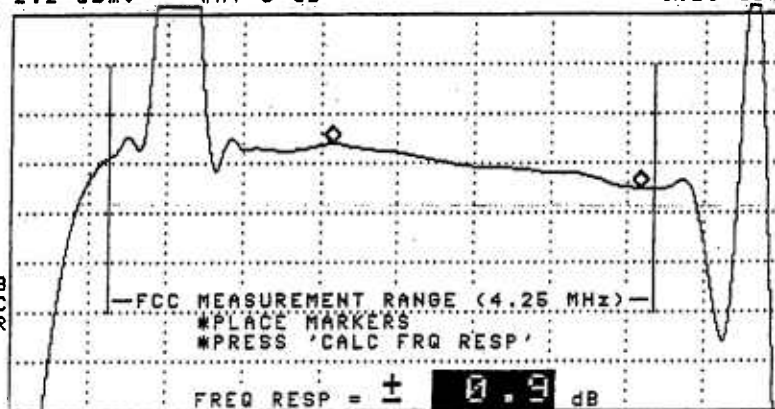
START 324.000 MHz STOP 330.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msc

14:17:50 JAN 16, 2003
 CHANNEL 50 (STD)
 REF -2.2 dBmV #AT 0 dB

MKR 382.905 MHz
 -9.25 dBmV MARKER 1

PEAK
 LOG
 2
 dB/

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

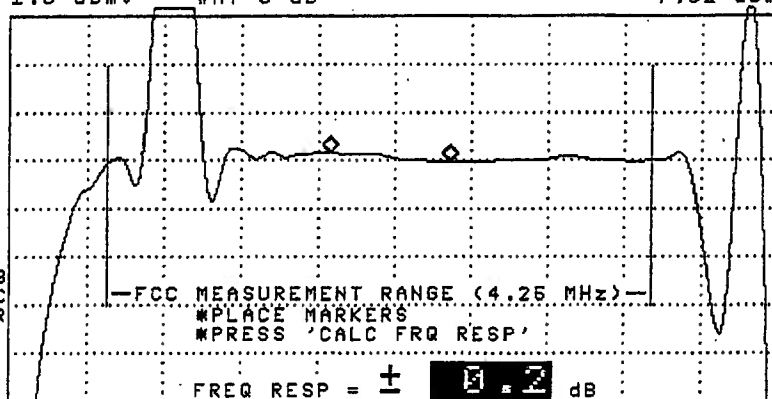
START 378.000 MHz STOP 384.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

14:18:50 JAN 16, 2003
 CHANNEL 52 (STD)
 REF -1.6 dBmV #AT 0 dB

MKR 458.435 MHz
 -7.62 dBmV MARKER 1

PEAK
 LOG
 2
 dB/

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

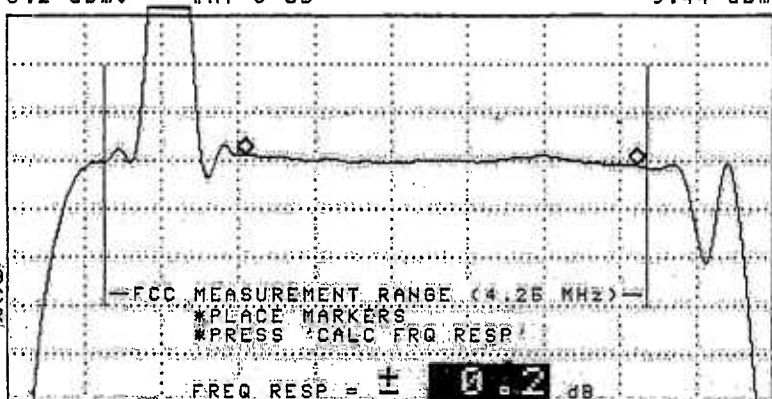
START 450.000 MHz STOP 456.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

14:19:50 JAN 16, 2003
 CHANNEL 78 (STD)
 REF -3.2 dBmV #AT 0 dB

MKR 550.935 MHz
 -9.44 dBmV MARKER 1

PEAK
 LOG
 2
 dB/

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

START 546.000 MHz STOP 552.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

FORD ST. / LAFARGEVILLE

Date:

01/28/03

Performed by:

DENIS RHUBART

Meter Serial Number:

9253718

Chan	Freq (MHz)	Temp				Max	Chan	Freq (MHz)	Temp				Max
		17	20	30	23				17	20	30	23	
		0:42	6:42	12:42	18:42				0:42	6:42	12:42	18:42	
Chan	Freq (MHz)	Visual Level (dBmV)				Var	Chan	Freq (MHz)	Visual Level (dBmV)				Var
2	55.2500	10.1	10.6	10.4	10.5	0.5	DD(40)	319.2625	13.3	13.1	13.1	13.0	0.3
3	61.2500	10.1	10.6	10.6	10.8	0.7	EE(41)	325.2625	13.0	13.7	12.9	12.9	0.8
4	67.2500	10.2	10.1	10.8	10.4	0.7	FF(42)	331.2750	13.7	14.5	13.5	13.5	1
5	77.2500	10.5	10.8	10.0	10.9	0.9	GG(43)	337.2625	14.2	14.0	14.5	14.6	0.6
6	83.2500	10.2	10.1	10.7	10.8	0.7	HH(44)	343.2625	13.7	13.5	13.4	13.5	0.3
A-5(95)	91.2500						II(45)	349.2625	13.6	13.9	13.8	13.7	0.3
A-4(96)	97.2500	10.2	10.0	10.9	10.8	0.9	JJ(46)	355.2625	13.4	14.9	13.7	13.6	1.5
A-3(97)	103.2500						KK(47)	361.2625	14.8	13.8	14.9	14.9	1.1
A-2(98)	109.2750						LL(48)	367.2625	13.8	13.8	13.7	13.8	0.1
A-1(99)	115.2750	11.3	11.4	11.8	11.9	0.6	MM(49)	373.2625	14.4	15.6	13.8	14.0	1.8
A(14)	121.2625	10.2	10.4	10.6	9.9	0.7	NN(50)	379.2625	15.1	15.4	15.4	15.0	0.4
B(15)	127.2625	10.6	11.6	12.2	12.0	1.6	OO(51)	385.2625	14.6	14.8	15.1	15.4	0.8
C(16)	133.2625	11.2	12.4	12.4	12.6	1.4	PP(52)	391.2625	15.1	14.4	14.6	14.5	0.7
D(17)	139.2500	10.9	12.3	12.4	12.4	1.5	QQ(53)	397.2625	14.5	13.4	14.7	14.7	1.3
E(18)	145.2500	11.8	12.8	13.0	12.9	1.2	RR(54)	403.2500	13.2	14.0	13.2	13.4	0.8
F(19)	151.3210	13.1	14.1	14.1	14.1	1	SS(55)	409.2500	14.3	14.1	14.7	14.0	0.7
G(20)	157.2500	12.8	12.5	12.4	12.5	0.4	TT(56)	415.2500	14.1	13.6	13.9	14.0	0.5
H(21)	163.2500	12.4	13.2	12.9	13.2	0.8	UU(57)	421.2500	13.9	13.9	13.5	13.3	0.6
I(22)	169.2500	12.7	12.4	13.3	13.6	1.2	VV(58)	427.2500	13.9	15.0	13.8	13.6	1.4
7	175.2600	11.7	13.1	12.6	13.0	1.4	WW(59)	433.2500	14.9	14.9	14.6	14.6	0.3
8	181.2500	12.4	13.8	13.1	13.1	1.4	XX(60)	439.2500	14.5	14.4	15.1	14.8	0.7
9	187.2500	12.6	13.4	13.6	13.3	1	YY(61)	445.2500	12.9	14.4	14.3	14.0	1.5
10	193.2500	12.9	13.9	13.5	13.6	1	ZZ(62)	451.2500	14.4	14.5	14.2	13.8	0.6
11	199.2500	12.8	12.3	13.4	13.2	1.1	63	457.2500	14.6	15.2	14.2	14.1	1.1
12	205.2500	11.4	13.1	12.0	12.2	1.7	64	463.2500	14.2	14.4	15.3	14.6	1.1
13	211.2500	12.9	12.9	12.8	13.5	0.7	65	469.2500	14.6	13.9	14.6	14.4	0.7
J(23)	217.2500	12.2	11.8	12.9	12.7	1.1	66	475.2500	14.1	13.2	14.0	14.1	0.9
K(24)	223.2500	11.7	11.6	11.9	11.7	0.3	67	481.2500	14.3	14.1	13.3	13.9	1
L(25)	229.2625	11.5	12.8	11.8	11.3	1.3	68	487.2500	15.9	13.5	15.2	15.0	2.4
M(26)	235.2625	11.8	12.5	12.4	12.0	0.7	69	493.2500	14.0	14.4	13.9	13.8	0.6
N(27)	241.2625	12.2	11.5	11.6	12.0	0.7	70	499.2500	14.0	14.3	14.3	14.1	0.3
O(28)	247.2625	11.2	12.3	10.7	10.6	1.7	71	505.2500	14.5	14.4	14.1	14.2	0.4
P(29)	253.2625	12.1	12.9	12.5	12.2	0.8	72	511.2500	14.5	14.1	14.1	14.0	0.5
Q(30)	259.2625	12.3	12.3	12.5	12.6	0.3	73	517.2500	14.0	14.3	13.8	13.9	0.5
R(31)	265.2625	11.8	12.5	12.2	12.3	0.6	74	523.2500	14.4	14.0	14.1	14.0	0.4
S(32)	271.2625	13.0	13.6	12.8	13.1	0.8	75	529.2500	14.4	13.5	14.1	13.9	0.9
T(33)	277.2625	13.4	13.7	13.1	13.7	0.6	76	535.2500					
U(34)	283.2625	13.4	13.3	13.6	13.4	0.3	77	541.2500					
V(35)	289.2625	13.2	12.7	13.6	13.3	0.9	78	547.2500	13.7	13.5	13.8	13.3	0.5
W(36)	295.2625	11.5	13.3	12.4	11.7	1.8	79	553.0000					
AA(37)	301.2625	12.7	13.5	13.5	13.8	1.1	80	559.0000					
BB(38)	307.2625	13.9	13.5	13.4	13.9	0.5	81	565.0000					
CC(39)	313.2625	13.6	13.1	13.4	13.3	0.5							

Max NonAdjacent Channel Level Diff.

Max Adjacent Channel Level Diff.

Max Variance from last proof-of-performance test

Date of last proof-of-performance test

Note: Make measurements through a 100 ft. test drop cable without a converter

5.8

2.1

2.40

N/A

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name: Carthage / Watertown

System Test Point # 9

Hub Name: CHAUMONT

Location / Community: BURTON RD. / SACKETS HARBOR

Map Number: 356-5970

Pole Number: 8 over 8

D.T. Value: 26-2

OR Number: 556

GNA Cascade: 4

LE Cascade: 2

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: BURTON RD. / SACKETS HARBOR
Date: 01/24/03
Time: 1:45

Test Point	Freq. MHz	Visual Level	Aural Level	SG	Diff	Test Point	Freq. MHz	Visual Level	Aural Level	SG	Diff
2	55.2500	11.7	-3.0		14.7	DD(40)	319.2625	14.3	-0.4		14.7
3	61.2500	11.6	-3.3		14.9	EE(41)	325.2625	14.0	-0.2		14.2
4	67.2500	11.1	-2.7		13.8	FF(42)	331.2750	14.9	0.4		14.5
5	77.2500	12.1	-2.1		14.2	GG(43)	337.2625	15.1	0.3		14.8
6	83.2500	11.6	-3.2		14.7	HH(44)	343.2625	14.5	0.8		13.7
A-5(95)	91.2500	N/A	N/A		N/A	II(45)	349.2625	13.8	-1.2		15.0
A-4(96)	97.2500	12.7	-1.6		14.3	JJ(46)	355.2625	15.1	1.6		13.5
A-3(97)	103.2500	N/A	N/A		N/A	KK(47)	361.2625	15.6	0.3		15.3
A-2(98)	109.2750	N/A	N/A		N/A	LL(48)	367.2625	14.5	0.7		13.8
A-1(99)	115.2750	13.9	0.9		13.0	MM(49)	373.2625	15.1	0.4		14.7
A(14)	121.2625	13.9	-0.7		14.6	NN(50)	379.2625	16.1	1.2		14.9
B(15)	127.2625	13.9	-0.3		14.2	OO(51)	385.2625	16.3	1.5		14.8
C(16)	133.2625	14.6	0.0		14.6	PP(52)	391.2625	15.3	1.0		14.3
D(17)	139.2500	14.0	-1.1		15.1	QQ(53)	397.2625	15.0	0.1		14.9
E(18)	145.2500	15.1	0.9		14.2	RR(54)	403.2500	14.3	-0.9		15.2
F(19)	151.3210	15.6	1.8		13.8	SS(55)	409.2500	15.1	0.7		14.4
G(20)	157.2500	14.3	-0.4		14.7	TT(56)	415.2500	14.6	0.4		14.2
H(21)	163.2500	14.5	0.6		13.9	UU(57)	421.2500	13.4	-0.7		14.1
I(22)	169.2500	14.9	1.0		13.9	VV(58)	427.2500	13.9	-0.5		14.4
7	175.2500	14.8	0.5		14.3	WW(59)	433.2500	14.7	0.5		14.2
8	181.2500	15.6	1.0		14.6	XX(60)	439.2500	15.3	0.6		14.7
9	187.2500	15.8	1.6		14.2	YY(61)	445.2500	13.6	0.4		13.2
10	193.2500	16.8	2.2		14.6	ZZ(62)	451.2500	14.6	-0.6		15.2
11	199.2500	15.6	1.8		14.0	63	457.2500	14.9	0.6		14.3
12	205.2500	14.3	-0.7		15.0	64	463.2500	16.2	1.8		14.4
13	211.2500	15.1	0.5		14.6	65	469.2500	15.6	1.3		14.3
J(23)	217.2500	14.1	-0.3		14.4	66	475.2500	15.9	0.7		15.2
K(24)	223.2500	13.0	-1.4		14.4	67	481.2500	15.1	0.3		14.8
L(25)	229.2625	13.1	-1.9		15.0	68	487.2500	16.4	2.0		14.4
M(26)	235.2625	12.7	-0.4		13.1	69	493.2500	15.9	0.9		15.0
N(27)	241.2625	13.4	-1.8		15.2	70	499.2500	16.5	2.0		14.5
O(28)	247.2625	12.5	-1.1		13.6	71	505.2500	16.8	2.9		13.9
P(29)	253.2625	14.3	0.7		13.6	72	511.2500	16.4	2.7		13.7
Q(30)	259.2625	14.9	0.3		14.6	73	517.2500	16.8	1.7		15.1
R(31)	265.2625	15.4	0.8		14.6	74	523.2500	16.7	3.0		13.7
S(32)	271.2625	15.0	0.9		14.1	75	529.2500	17.0	2.1		14.9
T(33)	277.2625	15.6	1.6		14.0	76	535.2500	N/A	N/A		N/A
U(34)	283.2625	16.0	1.0		15.0	77	541.2500	N/A	N/A		N/A
V(35)	289.2625	15.5	0.8		14.7	78	547.2500	16.2	2.1		14.1
W(36)	295.2625	15.1	0.0		15.1	79	553.0000	N/A	N/A		N/A
AA(37)	301.2625	15.1	-0.1		15.2	80	559.0000	N/A	N/A		N/A
BB(38)	307.2625	14.4	-0.4		14.8	81	565.0000	N/A	N/A		N/A
CC(39)	313.2625	14.1	0.4		13.7						

Min Channel :- 4
Max Channel :- 75

11.1
17

PEAK TO VALLEY: 5.90

TIME WARNER CABLE -- SYRACUSE DIVISION

IN CHANNEL RESPONSE Test
 CARRIER - TO - NOISE Test
 COHERENT DISTURBANCES Test
 LOW FREQUENCY DISTURBANCES Test

System Name: Carthage / Watertown

Date: January 17, 2003

Test Performed By: MARK FAVRET

Location: BURTON RD. / SACKETS HARBOR

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	In Channel Response (V/A/B)	Carrier To Noise Ratio (dB)	Distortions (dBc) C/N	CSO	HUM
3	0.6	47.3	65.5	62.1	0.4
12	0.7	47.7	64.3	66.3	
15	0.4	47.9	68.2	65.3	
26	0.3	46.8	62.8	66.2	
34	0.3	48.6	63.2	64.6	
41	0.3	47.7	61.6	71.8	
50	0.8	48.2	64.6	62.5	
62	0.2	47.6	61.8	65.5	
78	0.2	47.8	60.3	61.7	

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 17, 2003

Test Performed By: MARK FAVRET

Location: BURTON RD/SACKETS HARBOR

(SEE THE ATTACHED SWEEP TRACES)

18:46:30 JAN 17, 2003

CHANNEL 3 (STD)

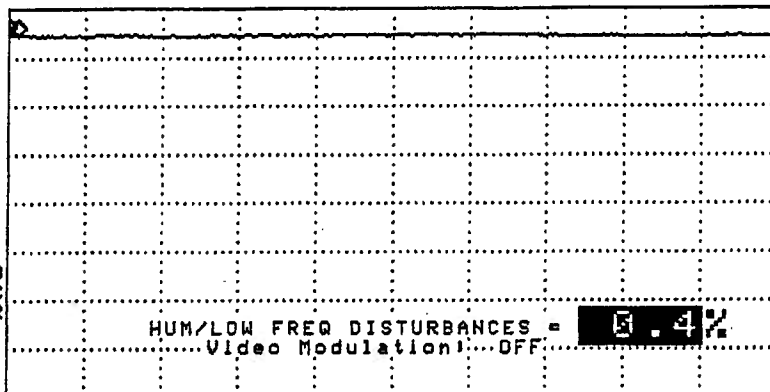
REF 11.5 dBmV AT 10 dB

MKR Δ 625.00 μ sec
-.08 dB

CH11

PEAK
LOG
1
dB/

WA SB
SC FC
CORR



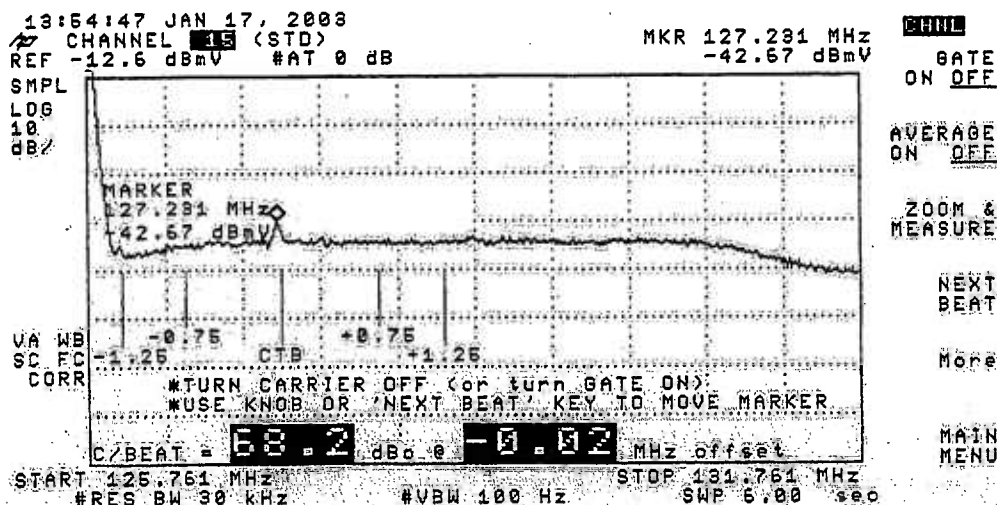
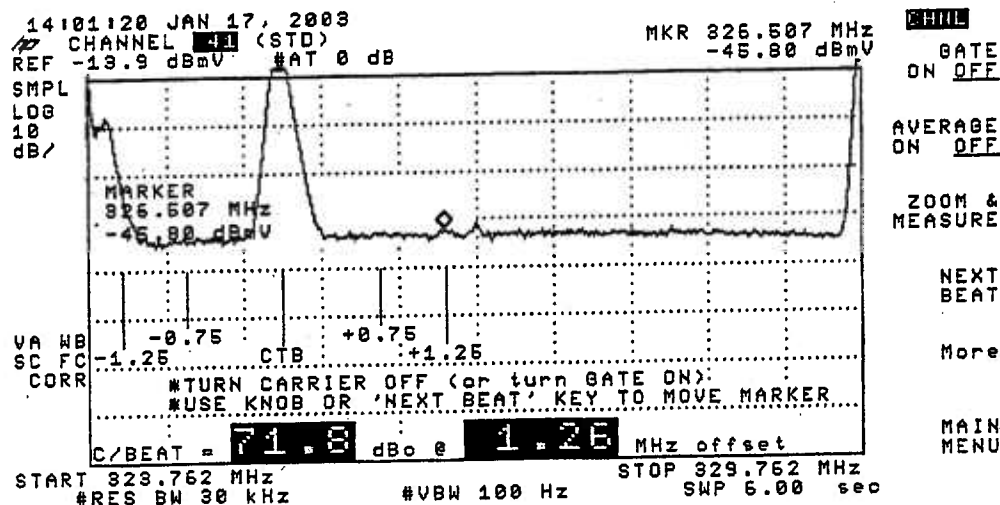
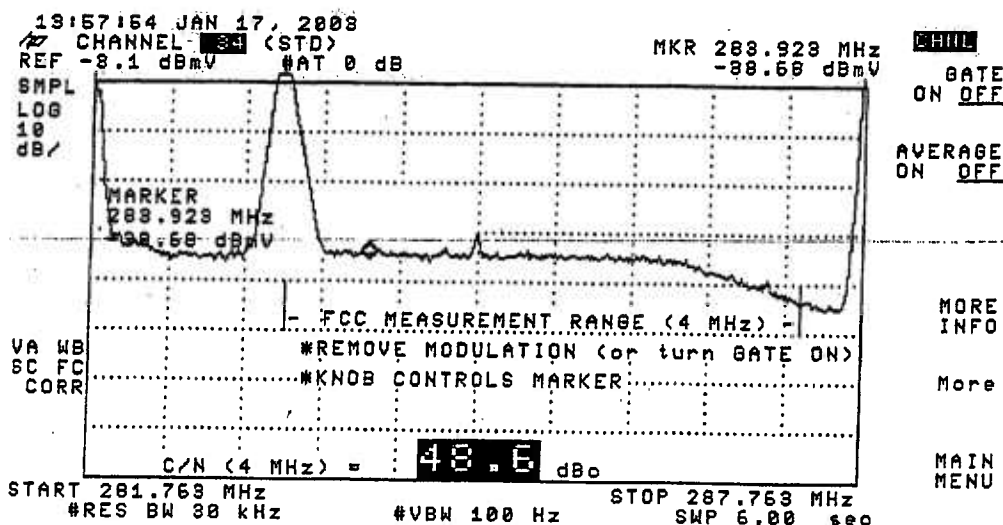
MORE
INFO

MAIN
MENU

START 61.240 MHz
#RES BW 1.0 MHz

#VBW 1 kHz

STOP 61.240 MHz
#SWP 50.0 msec

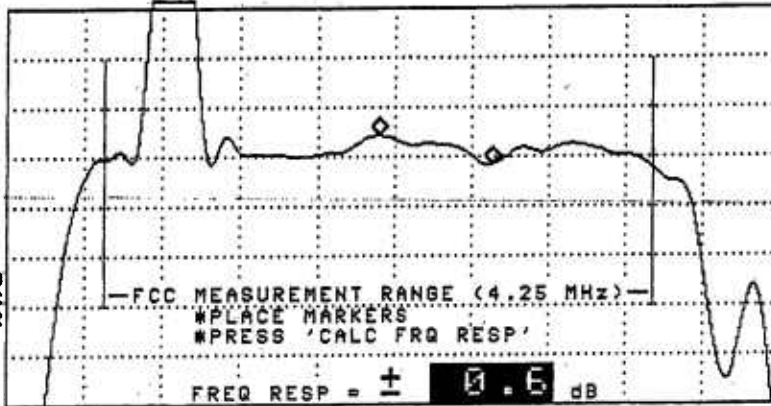


14:11:39 JAN 17, 2003
CHANNEL 3 (STD)
REF -6.9 dBmV #AT 0 dB

MKR 68.765 MHz CHNL
-18.18 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

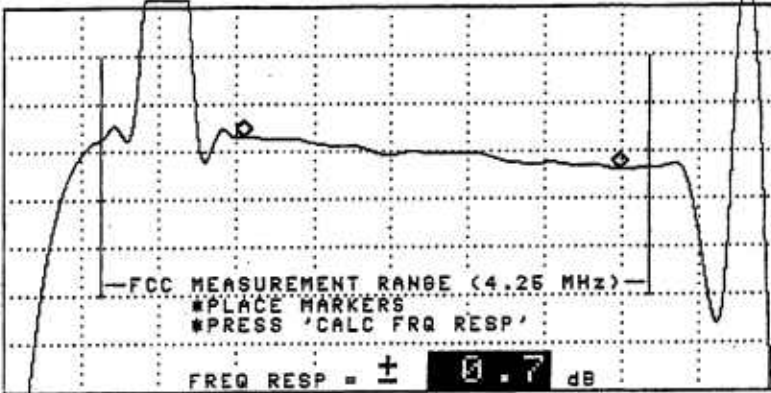
START 60.000 MHz STOP 66.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

14:12:35 JAN 17, 2003
CHANNEL 3 (STD)
REF -2.6 dBmV #AT 0 dB

MKR 208.785 MHz CHNL
-9.44 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

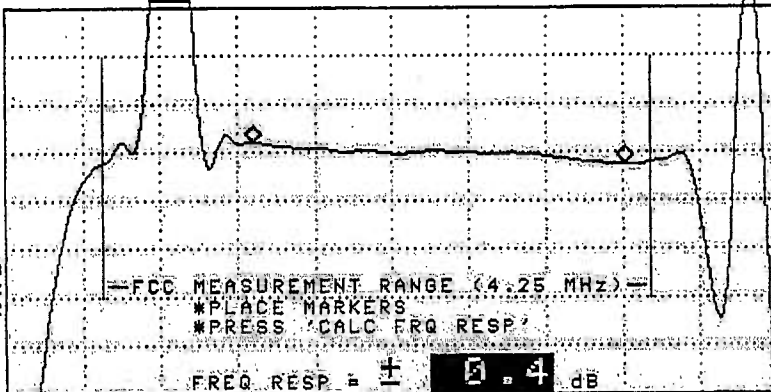
START 204.000 MHz STOP 210.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

14:13:27 JAN 17, 2003
CHANNEL 3 (STD)
REF -2.6 dBmV #AT 0 dB

MKR 130.815 MHz CHNL
-9.09 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

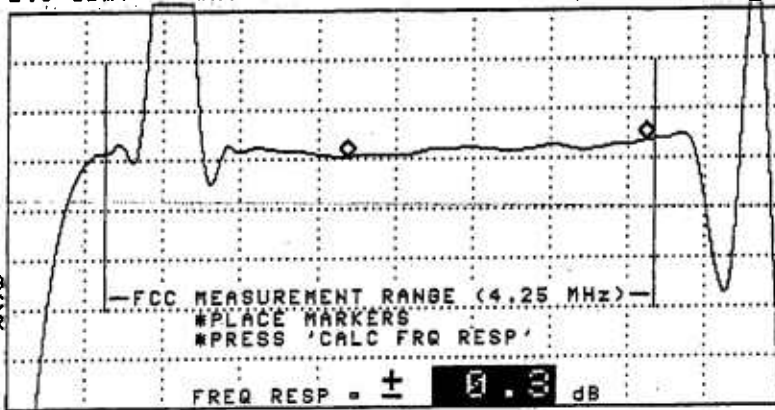
START 126.000 MHz STOP 132.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

14:14:28 JAN 17, 2003
CHANNEL 33 (STD)
REF -2.8 dBmV #AT 0 dB

MKR 296.625 MHz CHNL
-8.72 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

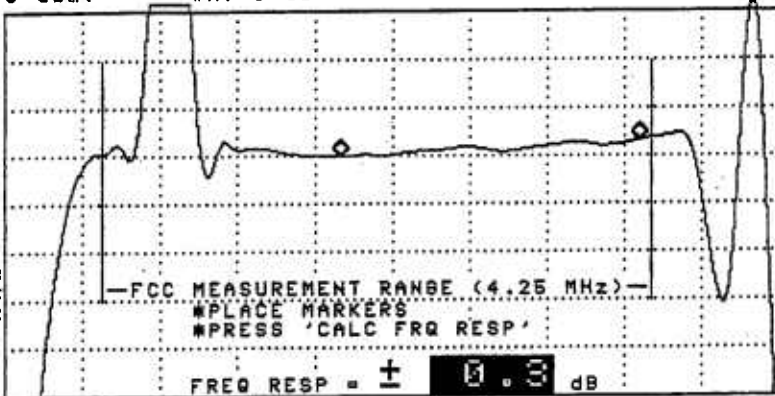
START 234.000 MHz STOP 240.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

14:15:14 JAN 17, 2003
CHANNEL 34 (STD)
REF .3 dBmV #AT 0 dB

MKR 284.595 MHz CHNL
-5.67 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

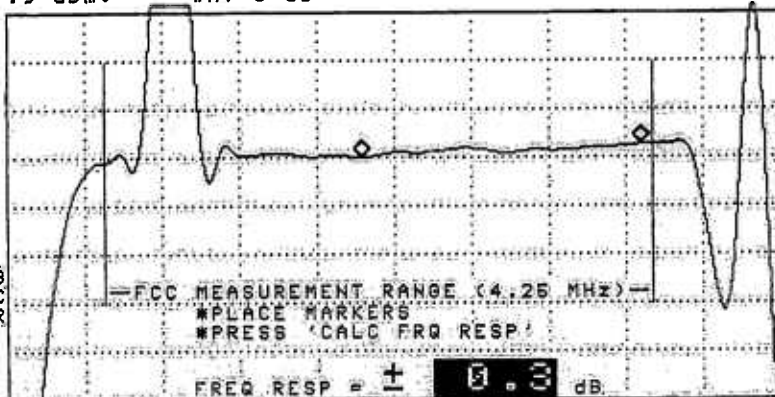
START 282.000 MHz STOP 288.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

14:16:08 JAN 17, 2003
CHANNEL 35 (STD)
REF -1.9 dBmV #AT 0 dB

MKR 326.745 MHz CHNL
-6.90 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



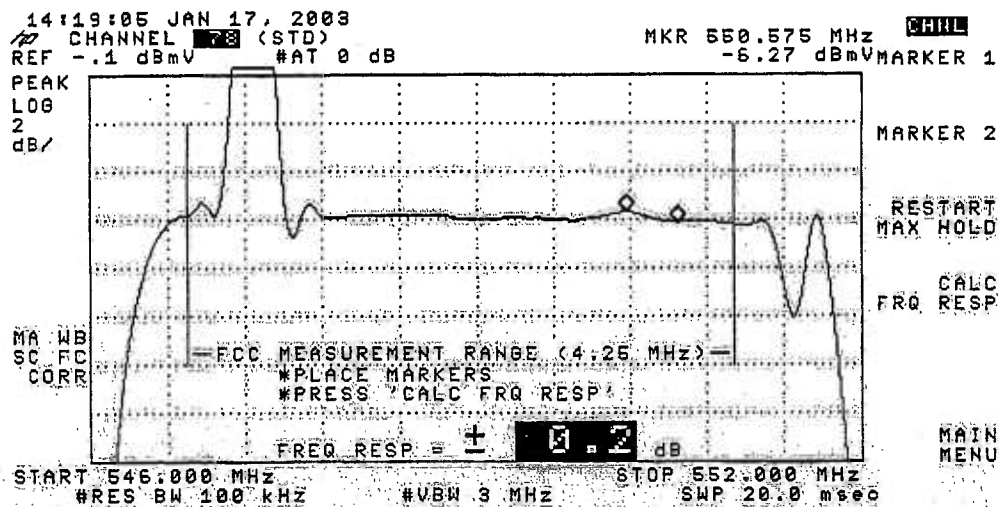
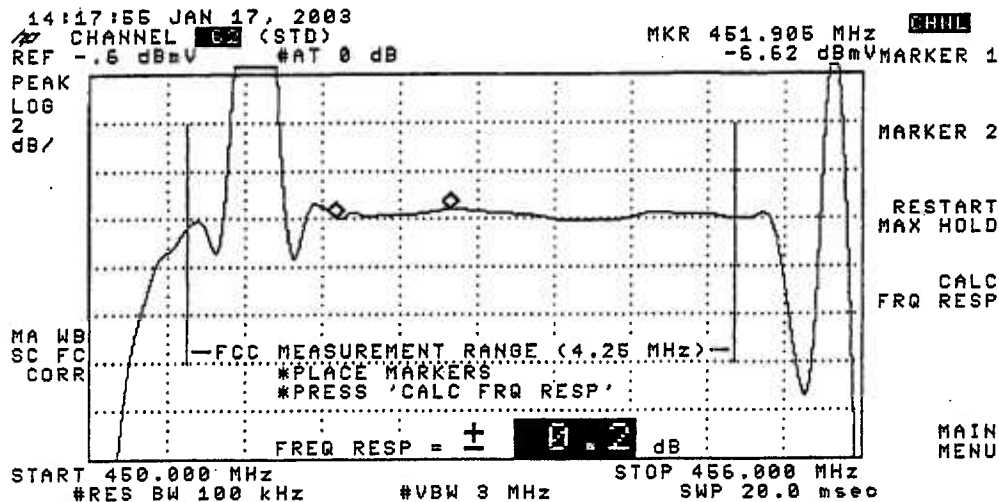
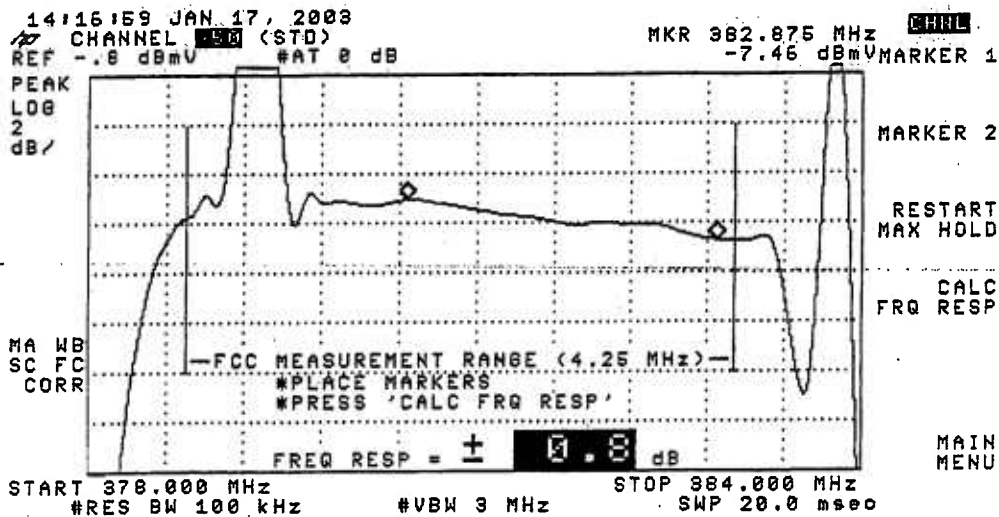
MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 324.000 MHz STOP 330.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec



TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

BURTON RD/SACKETS HARBOR

Date:

01/24/03

Performed by:

DENIS RHUBART

Meter Serial Number:

9253718

Chan	Freq	Time				Max	Chan	Freq	Time				Max
		0	3	7	4				0	3	7	4	
		1:45	7:45	13:45	19:45				1:45	7:45	13:45	19:45	
Visual Level (dBmV)	Visual Level (dBmV)	Visual Level (dBmV)	Visual Level (dBmV)	Var	Visual Level (dBmV)	Visual Level (dBmV)	Visual Level (dBmV)	Visual Level (dBmV)	Var				
2	55.2500	11.7	11.1	11.2	11.7	0.6	DD(40)	319.2625	14.3	13.7	14.9	15.1	1.4
3	61.2500	11.6	10.8	11.7	11.8	1	EE(41)	325.2625	14.0	13.9	14.1	13.9	0.2
4	67.2500	11.1	10.7	11.0	11.0	0.4	FF(42)	331.2750	14.9	14.9	15.1	15.5	0.6
5	77.2500	12.1	11.6	12.1	11.9	0.5	GG(43)	337.2625	15.1	15.7	15.6	15.7	0.6
6	83.2500	11.5	11.4	11.4	11.1	0.4	HH(44)	343.2625	14.5	14.7	15.2	15.6	1.1
A-5(95)	91.2500						II(45)	349.2625	13.8	14.4	14.7	14.6	0.9
A-4(96)	97.2500	12.7	12.3	12.8	12.7	0.5	JJ(46)	355.2625	15.1	15.3	15.4	15.3	0.3
A-3(97)	103.2500						KK(47)	361.2625	15.6	15.6	15.8	15.8	0.2
A-2(98)	109.2750						LL(48)	367.2625	14.5	14.7	14.7	14.5	0.2
A-1(99)	115.2750	13.9	13.4	14.6	14.1	1.2	MM(49)	373.2625	15.1	14.1	14.4	14.3	1
A(14)	121.2625	13.9	13.7	14.2	14.3	0.6	NN(50)	379.2625	16.1	16.3	16.0	16.2	0.3
B(15)	127.2625	13.9	13.7	14.6	13.6	1	OO(51)	385.2625	16.3	16.2	16.4	16.0	0.4
C(16)	133.2625	14.6	14.5	14.6	14.8	0.3	PP(52)	391.2625	15.3	15.6	15.4	15.6	0.3
D(17)	139.2500	14.0	13.9	13.9	13.3	0.7	QQ(53)	397.2625	15.0	15.0	15.2	15.4	0.4
E(18)	145.2500	15.1	14.7	15.1	15.0	0.4	RR(54)	403.2500	14.3	14.3	14.5	14.4	0.2
F(19)	151.3210	15.6	15.5	16.1	15.8	0.6	SS(55)	409.2500	15.1	14.8	15.1	15.2	0.4
G(20)	157.2500	14.3	13.5	14.1	14.1	0.8	TT(56)	415.2500	14.6	15.0	14.5	14.8	0.5
H(21)	163.2500	14.5	13.8	14.5	14.3	0.7	UU(57)	421.2500	13.4	13.5	13.6	13.7	0.3
I(22)	169.2500	14.9	14.8	15.0	14.7	0.3	VV(58)	427.2500	13.9	14.0	14.3	14.1	0.4
7	175.2500	14.8	14.9	15.4	15.3	0.6	WW(59)	433.2500	14.7	14.6	14.7	14.6	0.1
8	181.2500	15.6	15.7	15.9	16.1	0.5	XX(60)	439.2500	15.3	15.5	15.5	15.4	0.2
9	187.2500	15.8	15.5	15.6	15.4	0.4	YY(61)	445.2500	13.6	14.8	14.3	14.4	1.2
10	193.2500	16.8	15.9	16.5	16.9	1	ZZ(62)	451.2500	14.6	14.9	14.7	14.4	0.5
11	199.2500	15.6	15.9	16.0	15.7	0.4	63	457.2500	14.9	15.1	14.9	15.4	0.5
12	205.2500	14.3	14.5	14.6	14.8	0.5	64	463.2500	16.2	16.1	15.7	15.9	0.5
13	211.2500	15.1	14.3	14.5	14.2	0.9	65	469.2500	15.6	15.6	15.4	15.3	0.3
J(23)	217.2500	14.1	14.2	14.4	14.6	0.5	66	475.2500	15.9	15.2	15.4	15.5	0.7
K(24)	223.2500	13.0	12.6	12.9	13.1	0.5	67	481.2500	15.1	14.9	14.2	14.2	0.9
L(25)	229.2625	13.1	13.4	13.3	13.8	0.7	68	487.2500	16.4	16.7	16.3	16.6	0.4
M(26)	235.2625	12.7	12.8	12.7	12.8	0.1	69	493.2500	15.9	15.8	15.9	15.7	0.2
N(27)	241.2625	13.4	12.9	13.3	13.3	0.5	70	499.2500	16.5	16.2	16.5	16.2	0.3
O(28)	247.2625	12.5	12.6	12.7	13.2	0.7	71	505.2500	16.8	16.8	16.4	16.1	0.7
P(29)	253.2625	14.3	14.9	14.7	14.7	0.6	72	511.2500	16.4	16.5	16.5	16.0	0.5
Q(30)	259.2625	14.9	14.9	15.2	15.1	0.3	73	517.2500	16.8	16.6	16.5	16.4	0.4
R(31)	265.2625	15.4	15.1	15.2	14.9	0.5	74	523.2500	16.7	16.3	16.0	16.7	0.7
S(32)	271.2625	15.0	15.7	15.4	15.9	0.9	75	529.2500	17.0	16.4	16.4	16.8	0.6
T(33)	277.2625	15.6	15.4	15.4	15.4	0.2	76	535.2500					
U(34)	283.2625	16.0	15.6	15.4	15.8	0.6	77	541.2500					
V(35)	289.2625	15.5	14.8	15.2	15.3	0.7	78	547.2500	16.2	16.5	16.3	16.1	0.4
W(36)	295.2625	15.1	14.1	14.1	14.0	1.1	79	553.0000					
AA(37)	301.2625	15.1	15.1	15.3	15.1	0.2	80	559.0000					
BB(38)	307.2625	14.4	15.3	14.7	14.3	1	81	565.0000					
CC(39)	313.2625	14.1	15.0	14.6	14.6	0.9							

Max NonAdjacent Channel Level Diff.

Max Adjacent Channel Level Diff.

Max Variance from last proof-of-performance test

Date of last proof-of-performance test

Note: Make measurements through a 100 ft. test drop cable without a converter

6.1

2.4

1.40

N/A

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name: Carthage / Watertown

System Test Point # 10

Hub Name: HENDERSON

Location / Community: PENNY RD./HENDERSON HARBOR

Map Number: 329-5930

Pole Number: 5 over 5

D.T. Value: 26-4

OR Number: 1217

GNA Cascade: 5

LE Cascade: 1

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: PENNY RD. / HENDERSON HARBOR
Date : 01/24/03
Time : 13:15

Chan	Freq (MHz)	Level (dbmV)	Level (dbmV)	SO (S)	Diff (dbmV)	Chan	Freq (MHz)	Level (dbmV)	Level (dbmV)	SO (S)	Diff (dbmV)
2	55.2500	8.0	-5.7	13.7		DD(40)	319.2625	9.4	-5.1	14.5	
3	61.2500	9.2	-4.8	14.0		EE(41)	325.2625	9.1	-4.7	13.8	
4	67.2500	8.5	-4.8	13.3		FF(42)	331.2750	9.1	-5.8	14.9	
5	77.2500	8.4	-5.2	13.6		GG(43)	337.2625	10.3	-4.8	15.1	
6	83.2500	8.3	-6.4	14.7		HH(44)	343.2625	9.2	-4.4	13.6	
A-5(95)	91.2500	N/A	N/A	N/A		II(45)	349.2625	10.8	-3.1	13.9	
A-4(96)	97.2500	8.5	-5.6	14.1		JJ(46)	355.2625	12.0	-1.2	13.2	
A-3(97)	103.2500	N/A	N/A	N/A		KK(47)	361.2625	12.7	-1.7	14.4	
A-2(98)	109.2750	N/A	N/A	N/A		LL(48)	367.2625	11.8	-1.3	13.1	
A-1(99)	115.2750	8.2	-6.2	14.4		MM(49)	373.2625	11.0	-3.0	14.0	
A(14)	121.2625	9.2	-5.4	14.6		NN(50)	379.2625	11.9	-2.8	14.7	
B(15)	127.2625	9.1	-5.1	14.2		OO(51)	385.2625	11.9	-3.1	15.0	
C(16)	133.2625	9.8	-4.5	14.3		PP(52)	391.2625	11.0	-3.1	14.1	
D(17)	139.2500	9.0	-5.7	14.7		QQ(53)	397.2625	10.8	-4.2	15.0	
E(18)	145.2500	9.1	-5.1	14.2		RR(54)	403.2500	11.8	-3.1	14.9	
F(19)	151.3210	10.4	-3.1	13.5		SS(55)	409.2500	10.8	-3.5	14.3	
G(20)	157.2500	9.8	-4.9	14.7		TT(56)	415.2500	10.8	-4.0	14.8	
H(21)	163.2500	10.3	-2.7	13.0		UU(57)	421.2500	11.7	-1.9	13.6	
I(22)	169.2500	10.5	-2.9	13.4		VV(58)	427.2500	10.8	-3.4	14.2	
7	175.2500	10.6	-3.3	13.9		WW(59)	433.2500	12.0	-2.4	14.4	
8	181.2500	11.3	-1.9	13.2		XX(60)	439.2500	11.3	-3.2	14.5	
9	187.2500	11.9	-2.1	14.0		YY(61)	445.2500	10.7	-2.5	13.2	
10	193.2500	11.8	-1.7	13.5		ZZ(62)	451.2500	11.6	-3.4	15.0	
11	199.2500	11.8	-1.7	13.5		63	457.2500	11.6	-2.6	14.2	
12	205.2500	10.7	-4.0	14.7		64	463.2500	12.0	-1.6	13.6	
13	211.2500	10.7	-3.6	14.3		65	469.2500	12.4	-1.6	14.0	
J(23)	217.2500	9.5	-3.5	13.0		66	475.2500	12.1	-2.3	14.4	
K(24)	223.2500	9.0	-4.4	13.4		67	481.2500	11.3	-3.4	14.7	
L(25)	229.2625	9.1	-4.8	13.9		68	487.2500	12.3	-1.7	14.0	
M(26)	235.2625	9.0	-4.3	13.3		69	493.2500	11.1	-2.9	14.0	
N(27)	241.2625	10.1	-4.4	14.5		70	499.2500	12.0	-2.2	14.2	
O(28)	247.2625	9.6	-4.3	13.9		71	505.2500	12.2	-2.5	14.7	
P(29)	253.2625	10.1	-3.0	13.1		72	511.2500	12.5	-1.5	14.0	
Q(30)	259.2625	10.3	-3.7	14.0		73	517.2500	12.6	-2.6	15.2	
R(31)	265.2625	10.6	-3.8	14.4		74	523.2500	13.1	-0.2	13.3	
S(32)	271.2625	10.9	-3.0	13.9		75	529.2500	13.4	-0.6	14.0	
T(33)	277.2625	10.8	-2.8	13.6		76	535.2500	12.1	-2.4	14.5	
U(34)	283.2625	10.8	-3.3	14.1		77	541.2500	12.5	-1.8	14.3	
V(35)	289.2625	10.2	-3.5	13.7		78	547.2500	12.9	-0.2	13.1	
W(36)	295.2625	10.0	-4.6	14.6		79	553.0000	N/A	N/A	N/A	
AA(37)	301.2625	9.2	-5.1	14.3		80	559.0000	N/A	N/A	N/A	
BB(38)	307.2625	9.1	-4.6	13.7		81	565.0000	N/A	N/A	N/A	
CC(39)	313.2625	9.7	-4.4	14.1							

Min Channel: 2
 Max Channel: 75

8
 13.4

PEAK TO VALLEY: 5.40

TIME WARNER CABLE -- SYRACUSE DIVISION

IN CHANNEL RESPONSE Test
CARRIER - TO - NOISE Test
COHERENT DISTURBANCES Test
LOW FREQUENCY DISTURBANCES Test

System Name: Carthage / Watertown

Date: January 17, 2003

Test Performed By: MARK FAVRET

Location: PENNY RD./HENDERSON HARBOR

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	In Channel Response (μ / dB)	Carrier To Noise Ratio (dB)	Distortions (μ dB) CTB	CSO	HUM
3	0.6	46.9	63.7	64.9	0.5
12	0.8	48.9	61.9	65.8	
15	0.4	48.2	63.8	64.6	
26	0.4	47.7	61.8	64.3	
34	0.2	47.9	63.7	63.5	
41	0.2	47.1	60.9	65.3	
50	0.8	47.8	61.8	62.5	
62	0.3	47.6	61.2	66.5	
78	0.2	48.7	60.8	63.3	

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 17, 2003

Test Performed By: MARK FAVRET

Location: PENNY RD. / HENDERSON HARBOR

(SEE THE ATTACHED SWEEP TRACES)

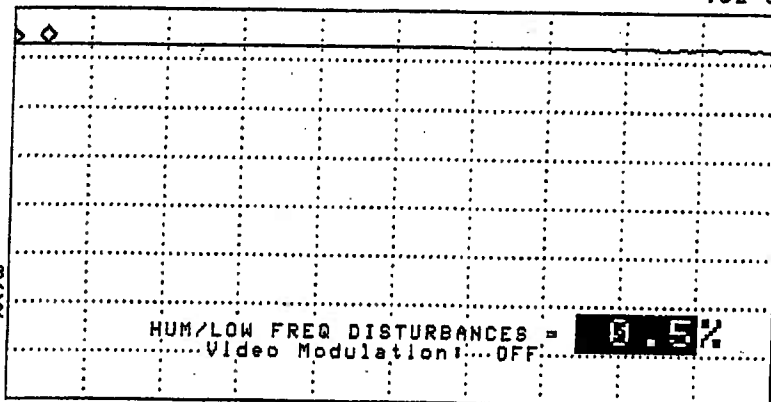
11:01:47 JAN 17, 2008
CHANNEL 3 (STD)
REF 10.0 dBmV #AT 0 dB

MKR Δ 2.1250 msec
-0.02 dB

CHNL

PEAK
LOG
1
dB/

WA SB
SC FC
CORR



MORE
INFO

MAIN
MENU

START 61.245 MHz
#RES BW 1.0 MHz

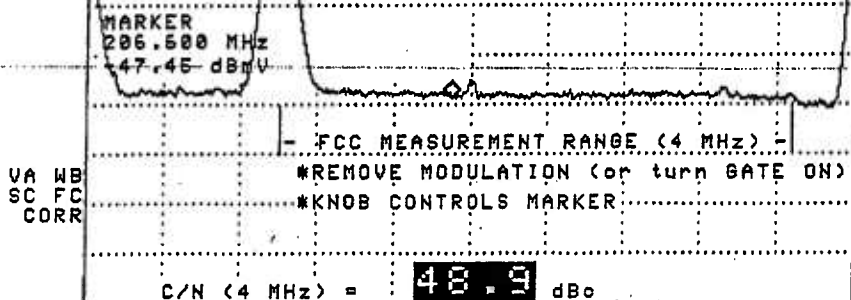
#VBW 1 kHz

STOP 61.245 MHz
#SWP 50.0 msec

11:05:38 JAN 17, 2003
 CHANNEL 12 (STD)
 REF -8.6 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 206.600 MHz
 -47.45 dBmV

CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF

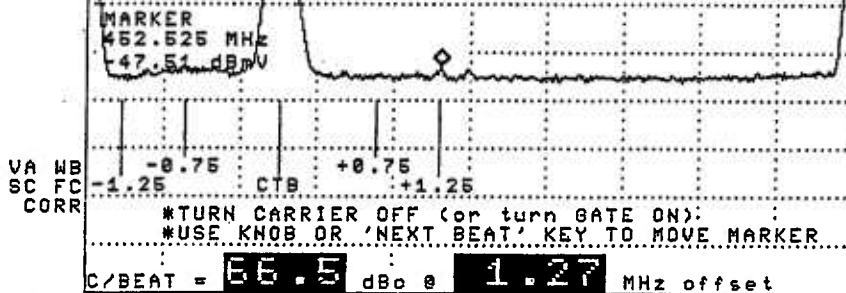


START 203.750 MHz STOP 209.750 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 5.00 sec

11:20:54 JAN 17, 2003
 CHANNEL 62 (STD)
 REF -14.0 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 452.525 MHz
 -47.51 dBmV

CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF



START 449.750 MHz STOP 455.750 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 5.00 sec

ZOOM &
 MEASURE

NEXT
 BEAT

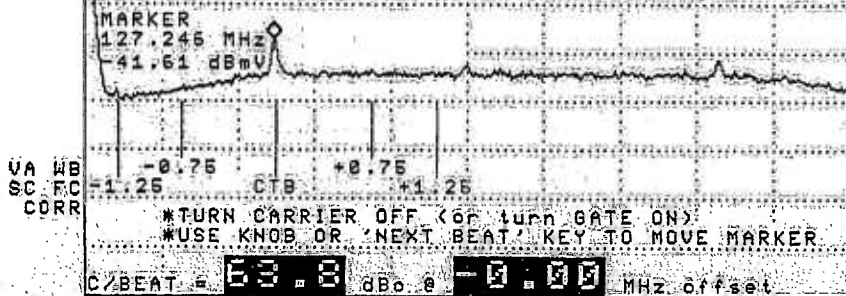
More

MAIN
 MENU

11:09:05 JAN 17, 2003
 CHANNEL 13 (STD)
 REF -14.3 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 127.246 MHz
 -41.61 dBmV

CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF



START 125.761 MHz STOP 131.761 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 5.00 sec

ZOOM &
 MEASURE

NEXT
 BEAT

More

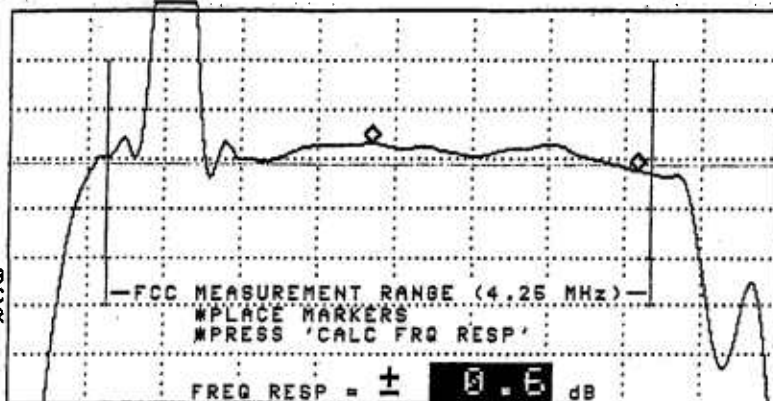
MAIN
 MENU

11:24:22 JAN 17, 2003
CHANNEL 1 (STD)
REF -8.9 dBmV #AT 0 dB

MKR 64.905 MHz CH1L
-14.80 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

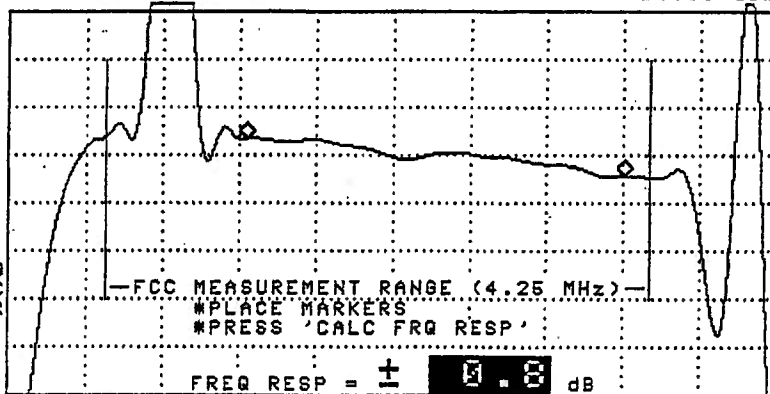
START 60.000 MHz STOP 66.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

11:25:20 JAN 17, 2003
CHANNEL 1 (STD)
REF -7.1 dBmV #AT 0 dB

MKR 208.815 MHz CH1L
-14.00 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

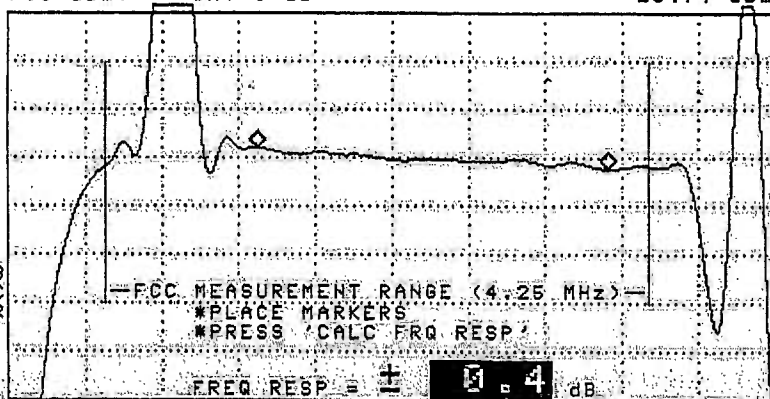
START 204.000 MHz STOP 210.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

11:26:19 JAN 17, 2003
CHANNEL 1 (STD)
REF -7.3 dBmV #AT 0 dB

MKR 130.695 MHz CH1L
-13.74 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

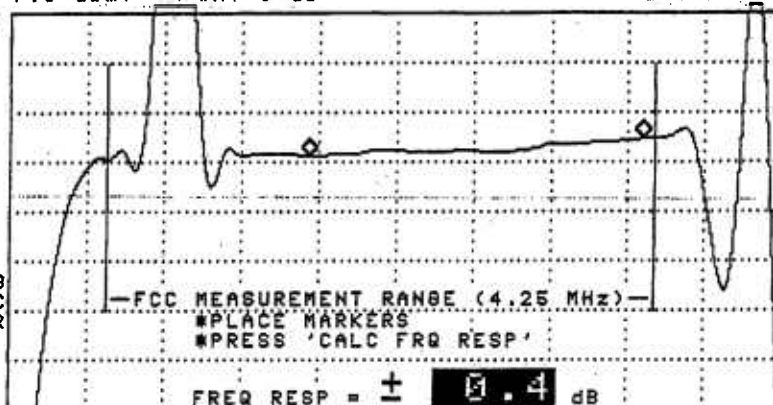
START 126.000 MHz STOP 132.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

11:28:06 JAN 17, 2003
CHANNEL 23 (STD)
REF -7.0 dBmV #AT 0 dB

MKR 296.825 MHz
-12.81 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

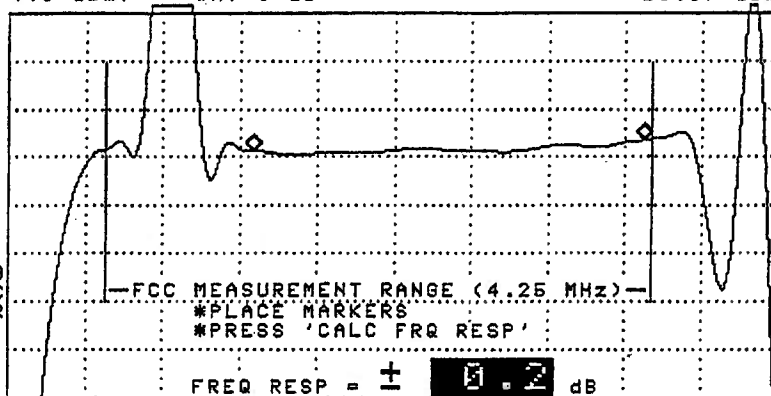
START 234.000 MHz STOP 240.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

11:29:50 JAN 17, 2003
CHANNEL 34 (STD)
REF -4.6 dBmV #AT 0 dB

MKR 289.905 MHz
-10.87 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

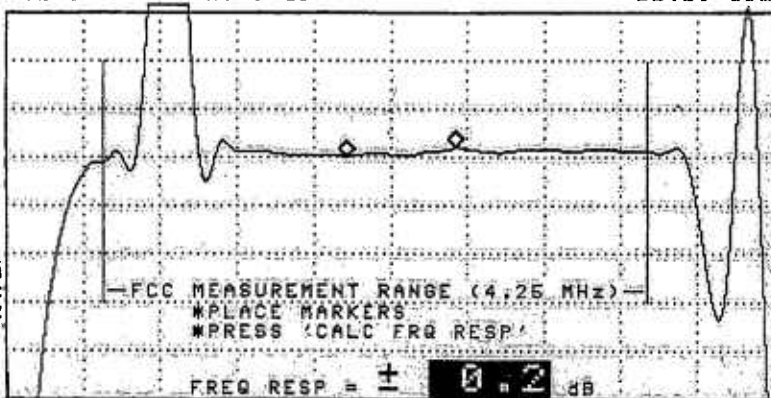
START 282.000 MHz STOP 288.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

11:31:01 JAN 17, 2003
CHANNEL 44 (STD)
REF -6.2 dBmV #AT 0 dB

MKR 326.655 MHz
-12.15 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



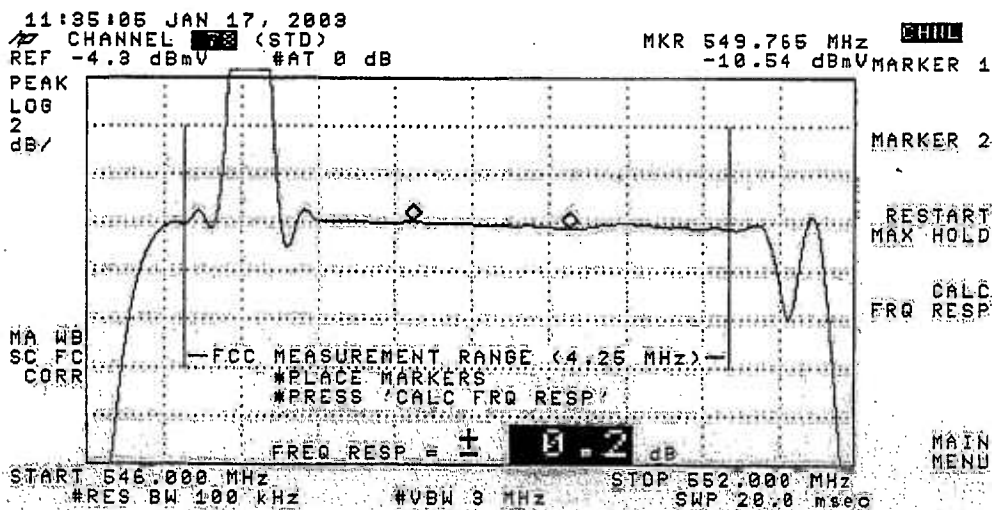
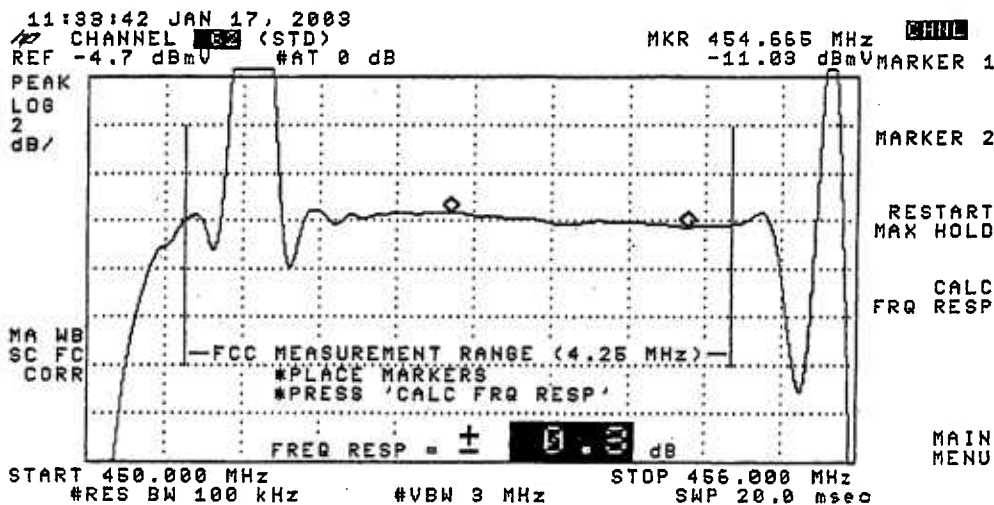
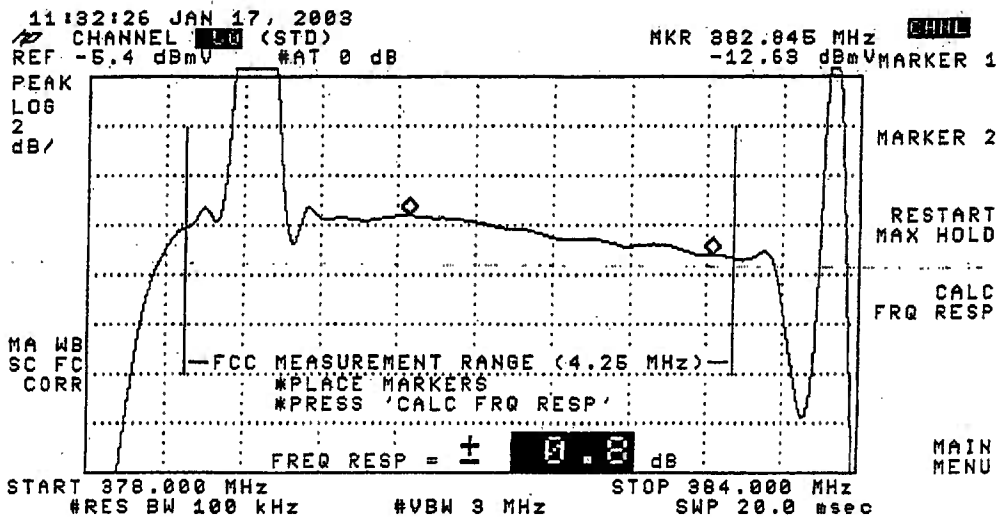
MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 324.000 MHz STOP 330.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec



TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

PENNY RD. / HENDERSON HARBOR

Date:

01/24/03

Performed by:

DENIS RHUBART

Meter Serial Number:

6463559

Chan	Freq (MHz)	TEMP F				Max	Chan	Freq (MHz)	TEMP F				Max
		7	4	0	3				7	4	0	3	
		Time							Time				
		13:15	19:15	1:15	7:15				13:15	19:15	1:15	7:15	
Visual Carrier Level (dBm)													
2	55.2500	8.0	8.7	8.8	8.7	0.8	DD(40)	319.2625	9.4	9.3	9.3	9.2	0.2
3	61.2500	9.2	9.2	9.4	9.2	0.2	EE(41)	325.2625	9.1	9.1	8.9	9.0	0.2
4	67.2500	8.5	8.3	8.4	8.2	0.3	FF(42)	331.2750	9.1	8.7	9.0	8.4	0.7
5	77.2500	8.4	7.9	8.1	8.2	0.5	GG(43)	337.2625	10.3	10.0	10.2	10.1	0.3
6	83.2500	8.3	8.0	8.1	8.0	0.3	HH(44)	343.2625	9.2	8.9	9.1	9.2	0.3
A-5(95)	91.2500						II(45)	349.2625	10.8	10.8	10.9	10.9	0.1
A-4(96)	97.2500	8.5	8.1	8.4	8.1	0.4	JJ(46)	355.2625	12.0	12.1	12.0	11.9	0.2
A-3(97)	103.2500						KK(47)	361.2625	12.7	12.7	12.5	12.7	0.2
A-2(98)	109.2750						LL(48)	367.2625	11.8	11.7	11.7	11.8	0.1
A-1(99)	115.2750	8.2	8.9	8.9	8.9	0.7	MM(49)	373.2625	11.0	10.3	10.0	9.9	1.1
A(14)	121.2625	9.2	8.8	8.8	8.9	0.4	NN(50)	379.2625	11.9	11.8	11.4	11.4	0.5
B(15)	127.2625	9.1	8.5	8.5	8.9	1	OO(51)	385.2625	11.9	11.7	11.6	11.5	0.4
C(16)	133.2625	9.8	9.1	9.4	9.2	0.7	PP(52)	391.2625	11.0	10.7	10.6	10.8	0.4
D(17)	139.2500	9.0	8.8	8.5	8.3	0.7	QQ(53)	397.2625	10.8	10.7	10.4	10.6	0.4
E(18)	145.2500	9.1	8.6	9.0	8.4	0.7	RR(54)	403.2500	11.8	11.7	11.7	11.5	0.3
F(19)	151.3210	10.4	10.4	10.6	10.4	0.2	SS(55)	409.2500	10.8	10.3	10.4	10.3	0.5
G(20)	157.2500	9.8	9.5	9.4	9.1	0.7	TT(56)	415.2500	10.8	10.4	10.4	10.4	0.4
H(21)	163.2500	10.3	10.0	10.3	10.0	0.3	UU(57)	421.2500	11.7	11.4	11.4	11.5	0.3
I(22)	169.2500	10.5	10.3	10.4	10.1	0.4	VV(58)	427.2500	10.8	10.2	10.4	10.5	0.6
7	175.2500	10.6	10.2	10.2	9.7	0.9	WW(59)	433.2500	12.0	11.7	11.7	11.4	0.6
8	181.2500	11.3	11.4	11.2	11.2	0.2	XX(60)	439.2500	11.3	11.4	11.6	11.3	0.3
9	187.2500	11.9	11.4	11.8	11.4	0.5	YY(61)	445.2500	10.7	12.2	10.9	11.0	1.5
10	193.2500	11.8	12.0	11.6	11.5	0.5	ZZ(62)	451.2500	11.6	11.2	11.6	11.1	0.5
11	199.2500	11.8	11.6	11.6	11.4	0.4	63	457.2500	11.6	11.2	11.2	11.3	0.4
12	205.2500	10.7	10.2	10.4	10.2	0.5	64	463.2500	12.0	11.8	12.2	12.3	0.5
13	211.2500	10.7	10.3	10.5	10.3	0.4	65	469.2500	12.4	12.4	12.3	12.2	0.2
J(23)	217.2500	9.5	9.3	9.3	9.1	0.4	66	475.2500	12.1	12.2	11.7	11.6	0.6
K(24)	223.2500	9.0	8.5	9.0	8.5	0.5	67	481.2500	11.3	10.8	10.8	10.7	0.6
L(25)	229.2625	9.1	8.8	8.5	8.4	0.7	68	487.2500	12.3	12.6	12.9	12.6	0.6
M(26)	235.2625	9.0	8.8	8.9	9.0	0.2	69	493.2500	11.1	11.2	11.2	11.5	0.4
N(27)	241.2625	10.1	9.5	10.0	9.8	0.6	70	499.2500	12.0	11.8	11.7	11.6	0.4
O(28)	247.2625	9.6	9.2	9.3	9.4	0.4	71	505.2500	12.2	12.2	12.1	12.3	0.2
P(29)	253.2625	10.1	9.4	9.1	9.1	1	72	511.2500	12.5	12.2	12.5	12.9	0.7
Q(30)	259.2625	10.3	9.9	10.1	10.1	0.4	73	517.2500	12.6	12.6	12.4	12.5	0.2
R(31)	265.2625	10.6	10.3	10.4	10.3	0.3	74	523.2500	13.1	12.9	12.9	12.6	0.5
S(32)	271.2625	10.9	10.6	10.4	10.7	0.5	75	529.2500	13.4	13.6	13.1	13.0	0.6
T(33)	277.2625	10.8	10.5	10.8	10.5	0.3	76	535.2500	12.1	12.3	12.8	12.6	0.7
U(34)	283.2625	10.8	10.2	10.6	10.7	0.6	77	541.2500	12.5	12.2	13.0	12.9	0.8
V(35)	289.2625	10.2	9.9	10.3	10.2	0.4	78	547.2500	12.9	13.1	12.7	12.8	0.4
W(36)	295.2625	10.0	8.3	8.3	8.5	1.7	79	553.0000					
AA(37)	301.2625	9.2	9.1	9.4	9.4	0.3	80	559.0000					
BB(38)	307.2625	9.1	9.0	8.9	9.1	0.2	81	565.0000					
CC(39)	313.2625	9.7	9.6	9.4	9.2	0.5							

Max NonAdjacent Channel Level Diff.

Max Adjacent Channel Level Diff.

Max Variance from last proof-of-performance test

Date of last proof-of-performance test

Note: Make measurements through a 100 ft. test drop cable without a converter

5.7

2.1

1.70

N/A

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name:	<u>Carthage / Watertown</u>
System Test Point #	<u>11</u>
Hub Name:	<u>CLAYTON</u>
Location / Community:	<u>QUEEN ANNE'S LN/WELLESLEY</u>
Map Number:	<u>383-6094</u>
Pole Number:	<u>40 over 2</u>
D.T. Value:	<u>20-2</u>
OR Number:	<u>486</u>
GNA Cascade:	<u>4</u>
LE Cascade:	<u>3</u>

TIME WARNER CABLE - SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: QUEEN ANNE'S LN / WELLESLEY
Date: 01/28/03
Time: 14:25

Chan	Freq (MHz)	Visual Level (dBmV)	Aural Level (dBmV)	Diff (dB)	Chan	Freq (MHz)	Visual Level (dBmV)	Aural Level (dBmV)	Diff (dB)
2	55.2500	7.9	-6.1	14.0	DD(40)	319.2625	9.6	-4.9	14.5
3	61.2500	8.4	-5.4	13.8	EE(41)	325.2625	9.0	-4.9	13.9
4	67.2500	8.0	-6.6	14.6	FF(42)	331.2750	9.5	-5.1	14.6
5	77.2500	8.0	-6.2	14.2	GG(43)	337.2625	9.9	-4.5	14.4
6	83.2500	7.8	-7.4	15.2	HH(44)	343.2625	9.3	-4.2	13.5
A-5(95)	91.2500	N/A	N/A	N/A	II(45)	349.2625	9.4	-4.9	14.3
A-4(96)	97.2500	7.3	-6.6	13.9	JJ(46)	355.2625	8.8	-6.1	14.9
A-3(97)	103.2500	N/A	N/A	N/A	KK(47)	361.2625	9.6	-4.8	14.4
A-2(98)	109.2750	N/A	N/A	N/A	LL(48)	367.2625	8.3	-4.8	13.1
A-1(99)	115.2750	9.8	-3.5	13.3	MM(49)	373.2625	9.4	-4.8	14.2
A(14)	121.2625	7.8	-7.1	14.9	NN(50)	379.2625	9.9	-4.4	14.3
B(15)	127.2625	9.1	-5.4	14.5	OO(51)	385.2625	10.0	-5.3	15.3
C(16)	133.2625	9.3	-5.1	14.4	PP(52)	391.2625	9.5	-4.4	13.9
D(17)	139.2500	8.3	-6.8	15.1	QQ(53)	397.2625	9.1	-5.7	14.8
E(18)	145.2500	8.0	-7.1	15.1	RR(54)	403.2500	7.9	-6.4	14.3
F(19)	151.3210	8.0	-6.1	14.1	SS(55)	409.2500	9.3	-5.3	14.6
G(20)	157.2500	7.8	-6.6	14.4	TT(56)	415.2500	9.2	-5.4	14.6
H(21)	163.2500	8.4	-5.4	13.8	UU(57)	421.2500	8.1	-5.8	13.9
I(22)	169.2500	8.9	-6.0	14.9	VV(58)	427.2500	9.3	-4.2	13.5
7	175.2500	7.8	-5.8	13.6	WW(59)	433.2500	9.9	-4.5	14.4
8	181.2500	8.8	-5.0	13.8	XX(60)	439.2500	9.9	-4.4	14.3
9	187.2500	9.9	-4.8	14.7	YY(61)	445.2500	8.9	-5.8	14.7
10	193.2500	9.7	-4.2	13.9	ZZ(62)	451.2500	10.3	-4.4	14.7
11	199.2500	11.1	-3.7	14.8	63	457.2500	10.5	-3.6	14.1
12	205.2500	9.3	-5.2	14.5	64	463.2500	11.4	-2.1	13.5
13	211.2500	9.1	-5.9	15.0	65	469.2500	11.3	-3.2	14.5
J(23)	217.2500	8.3	-5.5	13.8	66	475.2500	10.3	-4.3	14.6
K(24)	223.2500	7.8	-6.0	13.8	67	481.2500	9.7	-3.5	13.2
L(25)	229.2625	8.1	-6.0	14.1	68	487.2500	11.8	-2.4	14.2
M(26)	235.2625	8.7	-6.4	15.1	69	493.2500	10.2	-3.8	14.0
N(27)	241.2625	8.8	-5.5	14.3	70	499.2500	11.1	-3.8	14.9
O(28)	247.2625	8.7	-5.5	14.2	71	505.2500	10.9	-3.6	14.5
P(29)	253.2625	9.8	-3.5	13.3	72	511.2500	10.3	-3.7	14.0
Q(30)	259.2625	9.9	-4.1	14.0	73	517.2500	10.9	-4.3	15.2
R(31)	265.2625	9.8	-4.3	14.1	74	523.2500	10.9	-3.8	14.7
S(32)	271.2625	11.0	-3.5	14.5	75	529.2500	11.4	-2.3	13.7
T(33)	277.2625	10.8	-3.0	13.8	76	535.2500	N/A	N/A	N/A
U(34)	283.2625	10.7	-3.3	14.0	77	541.2500	N/A	N/A	N/A
V(35)	289.2625	10.8	-3.6	14.4	78	547.2500	10.6	-4.2	14.7
W(36)	295.2625	10.0	-4.9	14.9	79	553.0000	N/A	N/A	N/A
AA(37)	301.2625	10.0	-4.3	14.3	80	559.0000	N/A	N/A	N/A
BB(38)	307.2625	10.2	-4.2	14.4	81	565.0000	N/A	N/A	N/A
CC(39)	313.2625	9.9	-4.3	14.2					

Min Channel :-
Max Channel :-

A-4(96)
68

7.3
11.8

PEAK TO VALLEY: 4.50

IN CHANNEL RESPONSE Test
CARRIER - TO - NOISE Test
COHERENT DISTURBANCES Test
LOW FREQUENCY DISTURBANCES Test

Location: QUEEN ANNE'S LN/WELLESLEY

[illegible]

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 16, 2003

Test Performed By: MARK FAVRET

Location: QUEEN ANNE'S LN / WELLESLEY

(SEE THE ATTACHED SWEEP TRACES)

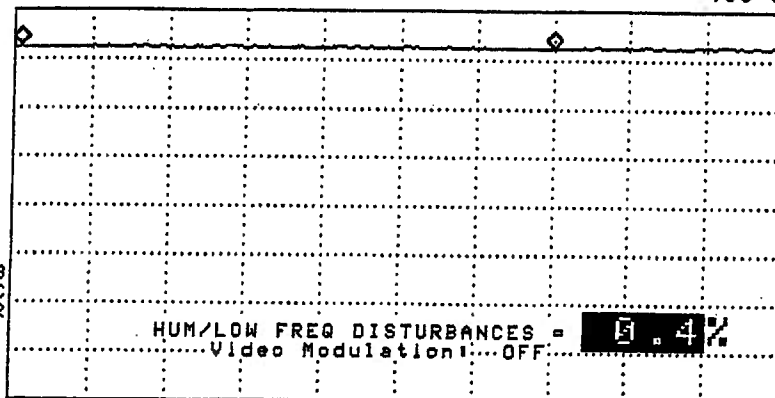
14:48:15 JAN 16, 2008
CHANNEL 3 (STD)
REF 10.0 dBmV #AT 0 dB

MKR Δ 34.500 msec
-.05 dB

CHNL

PEAK
LOG
1
dB/

WA SB
SC FC
CORR



MORE
INFO

MAIN
MENU

START 61.235 MHz
#RES BW 1.0 MHz

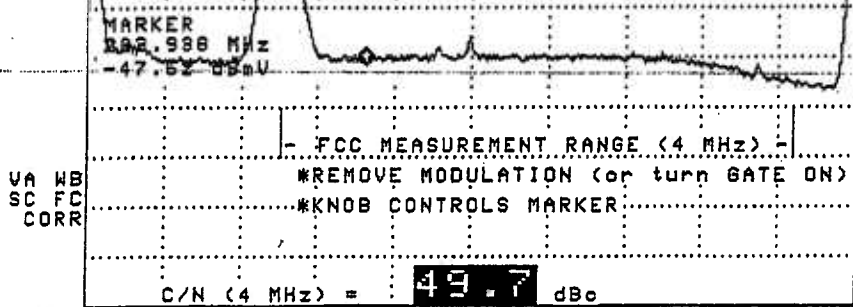
#VBW 1 kHz

STOP 61.235 MHz
#SWP 50.0 msec

15:00:00 JAN 16, 2003
 CHANNEL 34 (STD)
 REF -16.1 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 282.938 MHz
 -47.52 dBmV

CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF



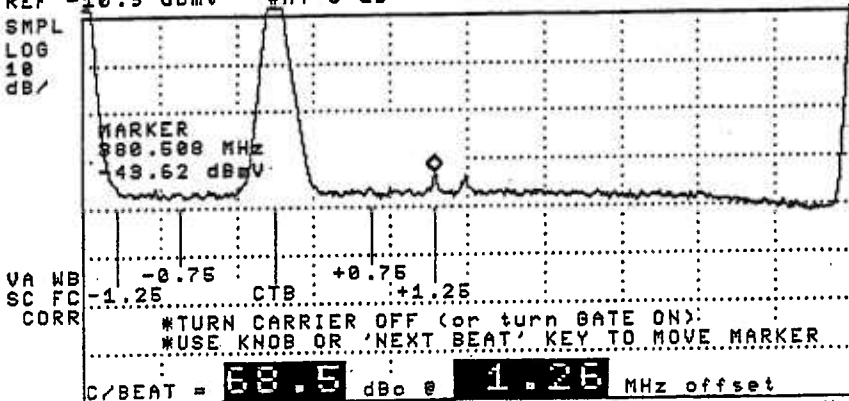
START 281.763 MHz #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec STOP 287.763 MHz

MORE
 INFO
 More
 MAIN
 MENU

15:05:31 JAN 16, 2003
 CHANNEL 50 (STD)
 REF -10.9 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 380.508 MHz
 -43.62 dBmV

CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF



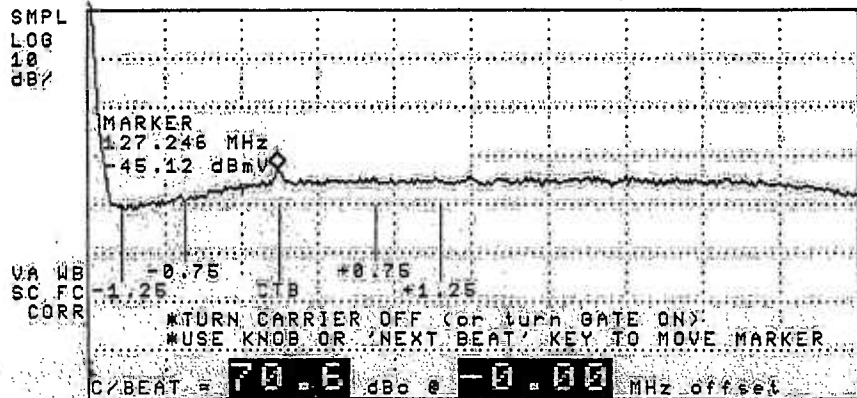
START 377.763 MHz #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec STOP 383.763 MHz

ZOOM &
 MEASURE
 NEXT
 BEAT
 More
 MAIN
 MENU

14:56:52 JAN 16, 2003
 CHANNEL 15 (STD)
 REF -12.3 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

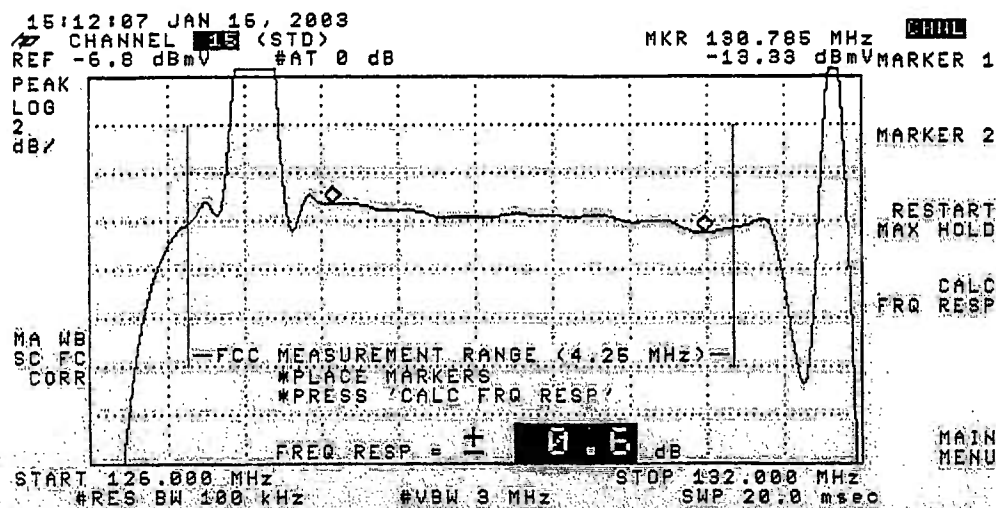
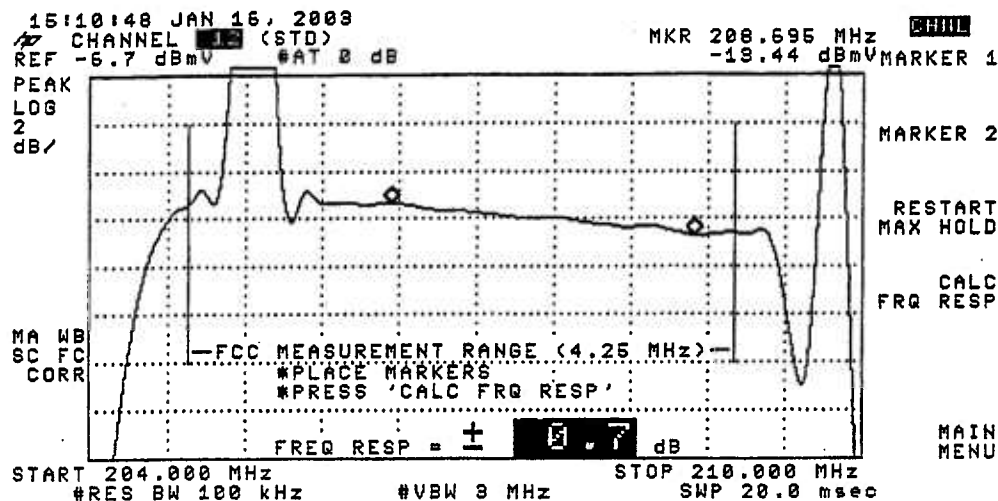
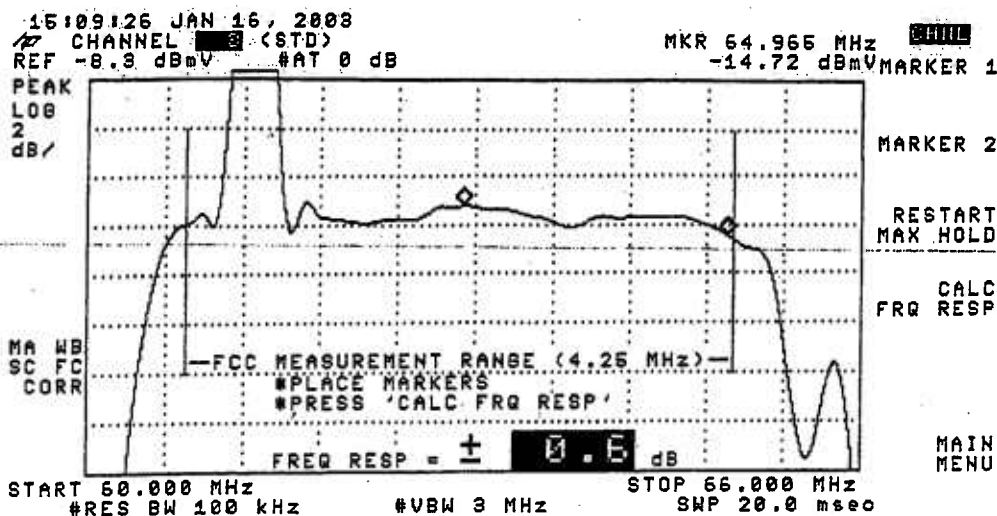
MKR 127.246 MHz
 -45.12 dBmV

CHNL
 GATE
 ON OFF
 AVERAGE
 ON OFF



START 125.761 MHz #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec STOP 131.761 MHz

ZOOM &
 MEASURE
 NEXT
 BEAT
 More
 MAIN
 MENU

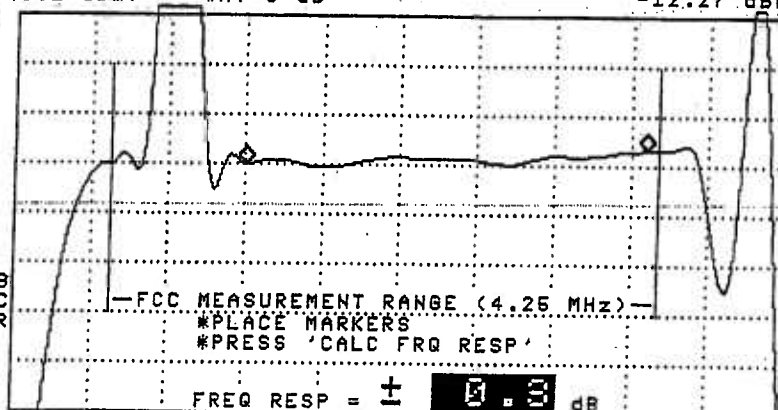


15:13:30 JAN 16, 2008
CHANNEL 23 (STD)
REF -6.2 dBmV #AT 0 dB

MKR 235.815 MHz
-12.27 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

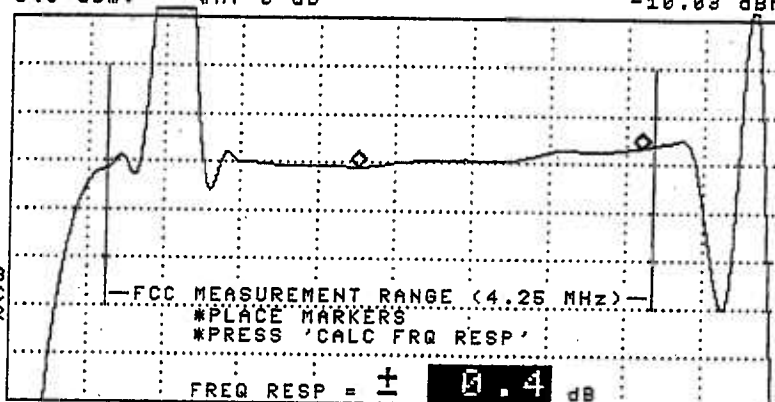
START 234.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 240.000 MHz SWP 20.0 msec

15:14:38 JAN 16, 2008
CHANNEL 34 (STD)
REF -9.8 dBmV #AT 0 dB

MKR 284.715 MHz
-10.83 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

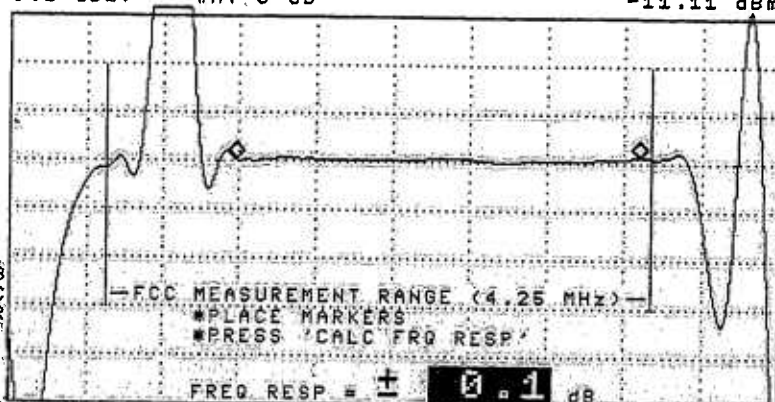
START 282.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 288.000 MHz SWP 20.0 msec

15:15:39 JAN 16, 2008
CHANNEL 41 (STD)
REF -5.2 dBmV #AT 0 dB

MKR 325.785 MHz
-11.11 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

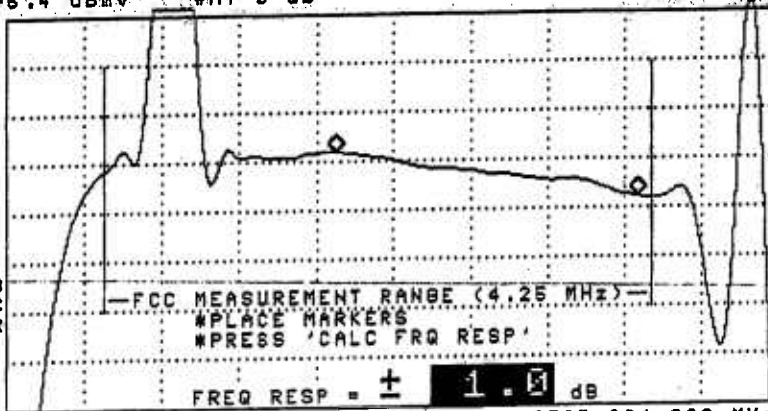
START 324.000 MHz #RES BW 100 kHz #VBW 3 MHz STOP 330.000 MHz SWP 20.0 msec

15:16:41 JAN 16, 2003
CHANNEL 58 (STD)
REF -5.4 dBmV #AT 0 dB

CHNL
MKR 382.905 MHz
-12.98 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FREQ RESP

MAIN
MENU

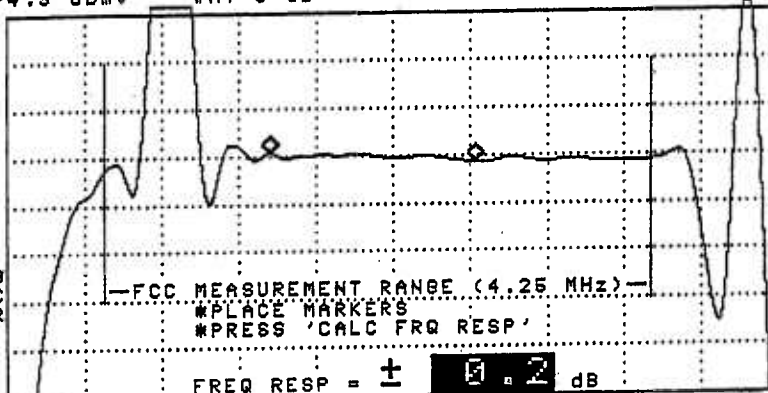
START 378.000 MHz STOP 384.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

15:17:42 JAN 16, 2003
CHANNEL 62 (STD)
REF -4.3 dBmV #AT 0 dB

CHNL
MKR 453.645 MHz
-10.56 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FREQ RESP

MAIN
MENU

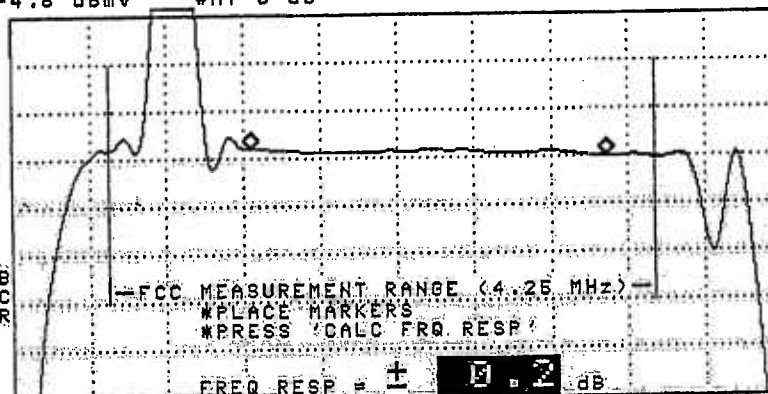
START 450.000 MHz STOP 456.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

15:19:27 JAN 16, 2003
CHANNEL 78 (STD)
REF -4.8 dBmV #AT 0 dB

CHNL
MKR 550.635 MHz
-10.82 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FREQ RESP

MAIN
MENU

START 546.000 MHz STOP 552.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

QUEEN ANNE'S LN / WELLESLEY

Date:

01/28/03

Performed by:

DENIS RHUBART

Meter Serial Number:

6463559

Chan	Freq (MHz)	Temp. F				Max	Chan	Freq (MHz)	Temp. F				Max
		30	25	21	23				30	25	21	23	
		14:25	20:25	2:25	8:25				14:25	20:25	2:25	8:25	
Chan	Freq (MHz)	Visual Level (dBmV)				Var	Chan	Freq (MHz)	Visual Level (dBmV)				Var
2	55.2500	7.9	7.9	7.9	7.8	0.1	DD(40)	319.2625	9.6	9.8	8.8	8.9	0.3
3	61.2500	8.4	8.4	8.6	8.3	0.3	EE(41)	325.2625	9.0	8.6	9.5	9.1	0.9
4	67.2500	8.0	8.2	8.2	8.6	0.6	FF(42)	331.2750	9.5	9.5	9.7	9.1	0.6
5	77.2500	8.0	8.5	8.9	8.6	0.9	GG(43)	337.2625	9.9	10.3	10.8	10.1	0.7
6	83.2500	7.8	7.8	7.8	7.8	0	HH(44)	343.2625	9.3	9.5	9.8	9.9	0.6
A-5(95)	91.2500						II(45)	349.2625	9.4	8.4	8.7	8.7	1
A-4(96)	97.2500	7.3	8.0	8.2	7.9	0.9	JJ(46)	355.2625	8.8	9.2	9.4	9.2	0.6
A-3(97)	103.2500						KK(47)	361.2625	9.6	10.2	10.2	10.2	0.6
A-2(98)	109.2750						LL(48)	367.2625	8.3	9.0	9.2	9.0	0.9
A-1(99)	115.2750	9.8	9.7	10.6	10.4	0.9	MM(49)	373.2625	9.4	9.0	9.1	8.9	0.5
A(14)	121.2625	7.8	7.5	8.2	8.6	1.1	NN(50)	379.2625	9.9	10.1	10.4	10.4	0.5
B(15)	127.2625	9.1	9.5	9.4	9.9	0.8	OO(51)	385.2625	10.0	10.4	11.0	10.8	1
C(16)	133.2625	9.3	9.6	9.4	9.3	0.3	PP(52)	391.2625	9.5	10.1	10.0	10.1	0.6
D(17)	139.2500	8.3	8.9	9.1	9.1	0.8	QQ(53)	397.2625	9.1	9.6	9.7	9.7	0.6
E(18)	145.2500	8.0	8.9	8.9	8.8	0.9	RR(54)	403.2500	7.9	8.2	8.5	8.4	0.6
F(19)	151.3210	8.0	9.8	9.9	9.7	1.9	SS(55)	409.2500	9.3	9.3	9.6	9.8	0.5
G(20)	157.2500	7.8	8.5	8.6	8.6	0.8	TT(56)	415.2500	9.2	9.3	9.4	9.6	0.4
H(21)	163.2500	8.4	9.1	9.2	9.2	0.8	UU(57)	421.2500	8.1	8.6	8.8	8.9	0.8
I(22)	169.2500	8.9	9.6	9.7	9.4	0.8	VV(58)	427.2500	9.3	9.4	9.7	10.0	0.7
7	175.2500	7.8	8.3	8.8	8.6	1	WW(59)	433.2500	9.9	10.8	10.6	10.5	0.9
8	181.2500	8.8	9.9	10.4	10.2	1.6	XX(60)	439.2500	9.9	10.4	10.6	10.4	0.7
9	187.2500	9.9	10.7	10.8	10.2	0.9	YY(61)	445.2500	8.9	10.5	10.9	10.5	2
10	193.2500	9.7	10.2	11.4	11.1	1.7	ZZ(62)	451.2500	10.3	10.5	10.8	10.6	0.6
11	199.2500	11.1	12.4	12.2	11.9	1.3	63	457.2500	10.5	10.5	11.1	10.8	0.6
12	205.2500	9.3	10.3	10.3	10.0	1	64	463.2500	11.4	11.6	11.8	11.7	0.4
13	211.2500	9.1	10.2	10.4	10.0	1.3	65	469.2500	11.3	11.5	11.6	11.6	0.3
J(23)	217.2500	8.3	9.0	9.0	9.3	1	66	475.2500	10.3	11.1	11.2	11.1	0.9
K(24)	223.2500	7.8	8.0	8.6	8.3	0.8	67	481.2500	9.7	10.2	10.5	10.3	0.8
L(25)	229.2625	8.1	8.2	8.3	8.3	0.2	68	487.2500	11.8	12.2	12.5	12.6	0.8
M(26)	235.2625	8.7	9.0	8.7	8.7	0.3	69	493.2500	10.2	10.6	10.9	11.0	0.8
N(27)	241.2625	8.8	9.1	9.4	8.7	0.7	70	499.2500	11.1	11.7	11.7	11.9	0.8
O(28)	247.2625	8.7	8.0	8.1	8.5	0.7	71	505.2500	10.9	11.7	11.6	11.9	1
P(29)	253.2625	9.8	10.1	9.9	10.1	0.3	72	511.2500	10.3	10.5	10.8	11.1	0.8
Q(30)	259.2625	9.9	10.1	10.3	9.9	0.4	73	517.2500	10.9	11.8	11.8	11.9	1
R(31)	265.2625	9.8	10.5	10.5	10.3	0.7	74	523.2500	10.9	11.4	11.9	12.2	1.3
S(32)	271.2625	11.0	10.9	11.3	10.8	0.5	75	529.2500	11.4	12.2	12.3	12.5	1.1
T(33)	277.2625	10.8	10.9	10.9	10.6	0.3	76	535.2500					
U(34)	283.2625	10.7	10.4	10.3	10.9	0.6	77	541.2500					
V(35)	289.2625	10.8	10.7	10.9	10.5	0.4	78	547.2500	10.5	11.4	11.5	11.4	1
W(36)	295.2625	10.0	8.9	9.2	9.2	1.1	79	553.0000					
AA(37)	301.2625	10.0	10.1	10.2	10.6	0.6	80	559.0000					
BB(38)	307.2625	10.2	10.3	10.4	10.4	0.2	81	565.0000					
CC(39)	313.2625	9.9	9.9	9.9	10.1	0.2							

Max NonAdjacent Channel Level Diff.

Max Adjacent Channel Level Diff.

Max Variance from last proof-of-performance test

Date of last proof-of-performance test

Note: Make measurements through a 100 ft. test drop cable without a converter

4.9

2.4

2:00

N/A

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name:	<u>Carthage / Watertown</u>
System Test Point #	<u>12</u>
Hub Name:	<u>ADAMS</u>
Location / Community:	<u>NORTH ST. / ADAMS CENTER</u>
Map Number:	<u>371-5938</u>
Pole Number:	<u>37</u>
D.T. Value:	<u>26-2</u>
OR Number:	<u>1204</u>
GNA Cascade:	<u>5</u>
LE Cascade:	<u>0</u>

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: NORTH ST. / ADAMS CENTER
Date: 01/30/03
Time: 1:00

Chan	MHz	Visual dbmV	Aural dbmV	S	Chan	MHz	Visual dbmV	Aural dbmV	S
2	55.2500	8.3	-7.3	13.6	DD(40)	319.2625	7.9	-7.0	14.9
3	61.2500	8.5	-4.5	13.0	EE(41)	325.2625	7.7	-6.9	14.6
4	67.2500	7.9	-6.2	14.1	FF(42)	331.2750	8.5	-6.2	14.7
5	77.2500	7.3	-6.3	13.6	GG(43)	337.2625	8.9	-5.6	14.5
6	83.2500	7.9	-6.2	14.1	HH(44)	343.2625	7.4	-7.3	14.7
A-5(95)	91.2500	N/A	N/A	N/A	II(45)	349.2625	9.0	-4.5	13.5
A-4(96)	97.2500	7.5	-7.1	14.6	JJ(46)	355.2625	9.1	-4.7	13.8
A-3(97)	103.2500	N/A	N/A	N/A	KK(47)	361.2625	9.9	-5.1	15.0
A-2(98)	109.2750	N/A	N/A	N/A	LL(48)	367.2625	9.1	-4.9	14.0
A-1(99)	115.2750	7.9	-6.4	14.3	MM(49)	373.2625	7.4	-7.3	14.7
A(14)	121.2625	8.3	-6.0	14.3	NN(50)	379.2625	8.5	-6.7	15.2
B(15)	127.2625	8.4	-6.3	14.7	OO(51)	385.2625	8.4	-6.9	15.3
C(16)	133.2625	8.2	-6.9	15.1	PP(52)	391.2625	8.2	-6.3	14.5
D(17)	139.2500	6.9	-8.1	15.0	QQ(53)	397.2625	8.1	-6.6	14.7
E(18)	145.2500	7.4	-7.5	14.9	RR(54)	403.2500	8.9	-8.2	15.1
F(19)	151.3210	9.6	-4.6	14.2	SS(55)	409.2500	8.0	-6.2	14.2
G(20)	157.2500	7.9	-6.3	14.2	TT(56)	415.2500	8.2	-6.4	14.6
H(21)	163.2500	8.4	-4.8	13.2	UU(57)	421.2500	9.0	-5.5	14.5
I(22)	169.2500	8.9	-5.0	13.9	VV(58)	427.2500	7.9	-6.4	14.3
7	175.2500	8.7	-6.3	15.0	WW(59)	433.2500	8.5	-6.2	14.7
8	181.2500	9.3	-4.4	13.7	XX(60)	439.2500	9.2	-5.6	14.8
9	187.2500	8.9	-6.1	15.0	YY(61)	445.2500	8.9	-5.3	14.2
10	193.2500	8.5	-6.2	14.7	ZZ(62)	451.2500	7.9	-6.6	14.5
11	199.2500	7.4	-6.2	13.6	63	457.2500	8.5	-6.5	15.0
12	205.2500	7.2	-8.0	15.2	64	463.2500	8.8	-6.0	14.8
13	211.2500	7.2	-7.9	15.1	65	469.2500	8.7	-5.9	14.6
J(23)	217.2500	6.7	-7.8	14.5	66	475.2500	7.9	-7.1	15.0
K(24)	223.2500	5.4	-8.2	13.6	67	481.2500	7.4	-7.4	14.8
L(25)	229.2625	5.8	-8.3	14.1	68	487.2500	9.4	-5.8	15.2
M(26)	235.2625	6.0	-8.6	14.6	69	493.2500	7.9	-6.9	14.8
N(27)	241.2625	6.8	-7.8	14.6	70	499.2500	7.6	-6.4	14.0
O(28)	247.2625	6.4	-8.5	14.9	71	505.2500	7.8	-7.0	14.8
P(29)	253.2625	7.2	-7.1	14.3	72	511.2500	8.1	-6.4	14.5
Q(30)	259.2625	7.0	-7.7	14.7	73	517.2500	7.7	-7.0	14.7
R(31)	265.2625	7.1	-8.9	14.0	74	523.2500	8.1	-6.4	14.5
S(32)	271.2625	8.5	-6.5	15.0	75	529.2500	8.4	-5.8	14.2
T(33)	277.2625	8.5	-5.2	13.7	76	535.2500	8.1	-6.5	14.6
U(34)	283.2625	8.9	-5.8	14.7	77	541.2500	9.0	-5.3	14.3
V(35)	289.2625	8.6	-6.3	14.9	78	547.2500	7.5	-6.5	14.0
W(36)	295.2625	7.8	-6.5	14.3	79	553.0000	N/A	N/A	N/A
AA(37)	301.2625	8.6	-6.0	14.6	80	559.0000	N/A	N/A	N/A
BB(38)	307.2625	7.9	-6.5	14.5	81	565.0000	N/A	N/A	N/A
CC(39)	313.2625	8.3	-6.8	15.1					

Min Channel: K(24)
Max Channel: KK(47)

5.4
9.9

PEAK TO VALLEY: 4.50

TIME WARNER CABLE -- SYRACUSE DIVISION

IN CHANNEL RESPONSE Test
CARRIER - TO - NOISE Test
COHERENT DISTURBANCES Test
LOW FREQUENCY DISTURBANCES Test

System Name: Carthage / Watertown

Date: January 17, 2003

Test Performed By: MARK FAVRET

Location: NORTH ST. / ADAMS CENTER

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	In Channel Response (A/-dB)	Carrier To Noise Ratio (dB)	Distortions (dBc) CTB	CSO	UM
3	0.5	47.6	66.0	65.2	0.3
12	0.7	48.2	62.6	62.1	
15	0.3	48.8	62.2	63.7	
26	0.3	47.3	60.1	69.6	
34	0.4	47.5	63.1	71.1	
41	0.1	47.7	61.2	64.9	
50	0.9	48.1	62.4	63.1	
62	0.3	47.5	61.5	68.0	
78	0.1	47.4	60.4	61.4	

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 17, 2003

Test Performed By: MARK FAVRET

Location: NORTH ST. / ADAMS CENTER

(SEE THE ATTACHED SWEEP TRACES)

09:39:27 JAN 17, 2003
CHANNEL 5 (STD)
REF 8.9 dBmV #AT 0 dB

MKR Δ 7.8750 msec
-0.02 dB

CH101

PEAK
LOG
1
dB/

WA 5B
SC FC
CORR

HUM/LOW FREQ DISTURBANCES = 0.3%
Video Modulation: OFF

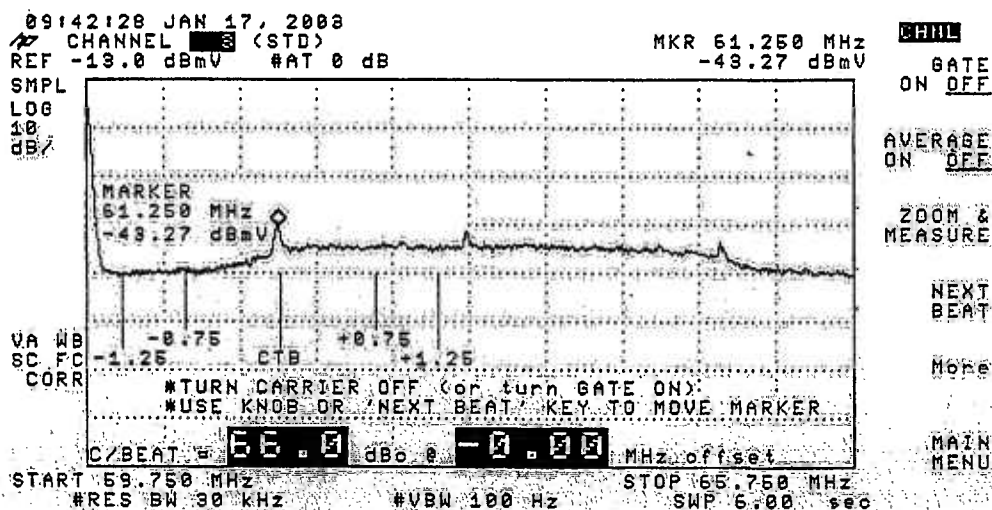
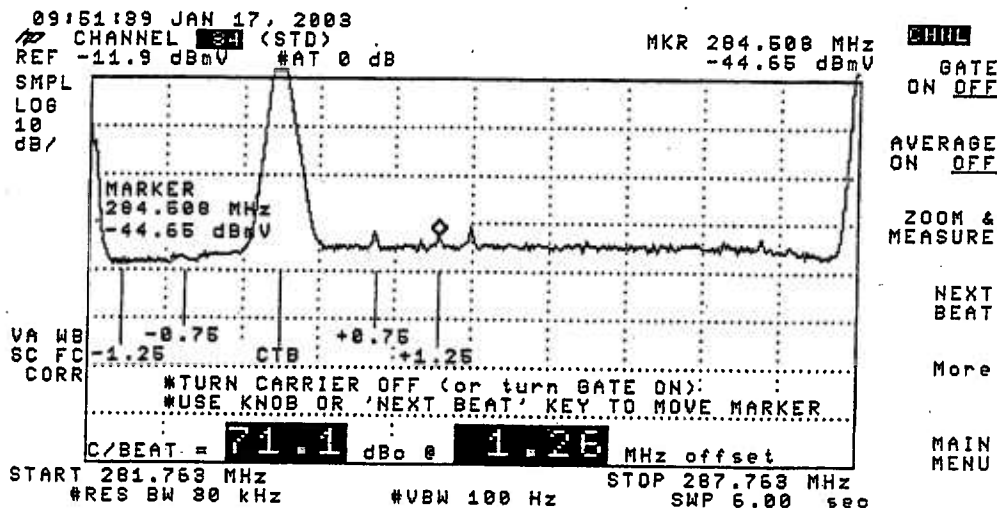
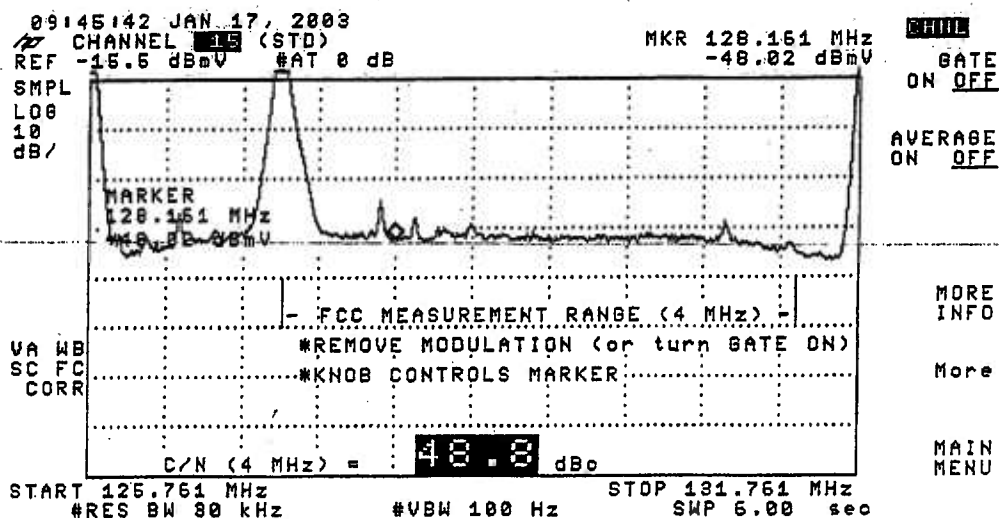
MORE
INFO

MAIN
MENU

START 61.240 MHz
#RES BW 1.0 MHz

#VBW 1 kHz

STOP 61.240 MHz
#SWP 50.0 msec

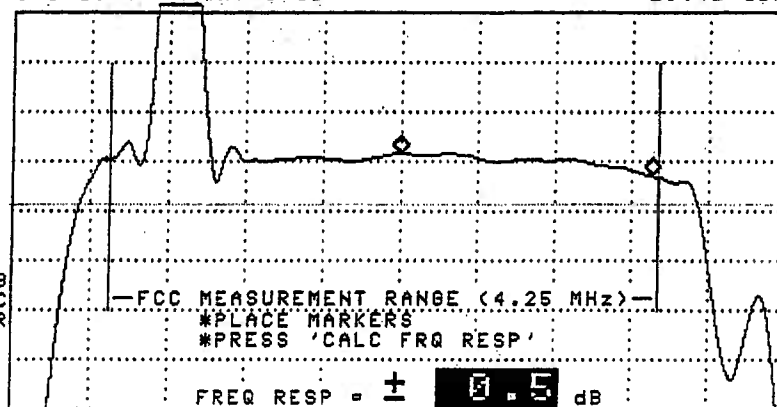


10:03:28 JAN 17, 2003
CHANNEL 13 (STD)
REF -8.8 dBmV #AT 0 dB

MKR 64.965 MHz CHNL
-15.42 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

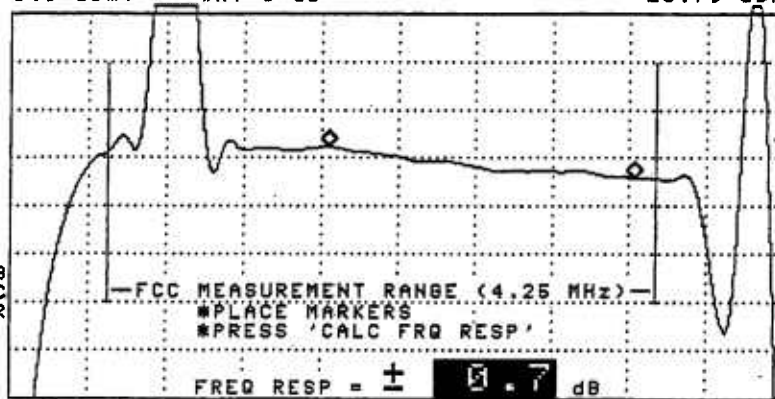
START 60.000 MHz STOP 66.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

10:04:35 JAN 17, 2003
CHANNEL 12 (STD)
REF -8.9 dBmV #AT 0 dB

MKR 208.845 MHz CHNL
-15.79 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

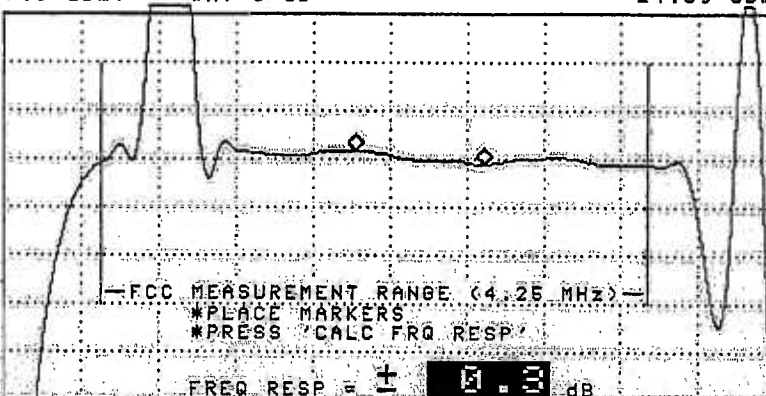
START 204.000 MHz STOP 210.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

10:05:39 JAN 17, 2003
CHANNEL 15 (STD)
REF -7.9 dBmV #AT 0 dB

MKR 129.735 MHz CHNL
-14.09 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



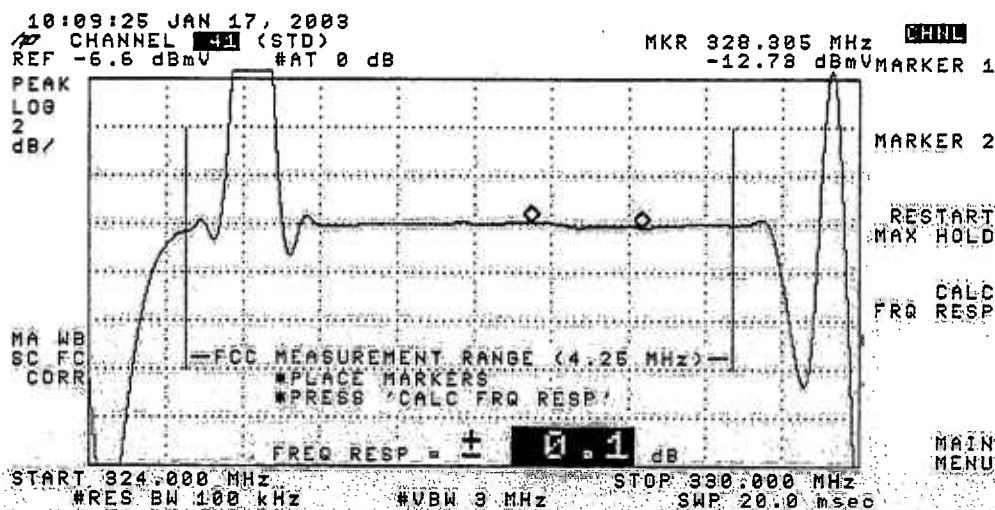
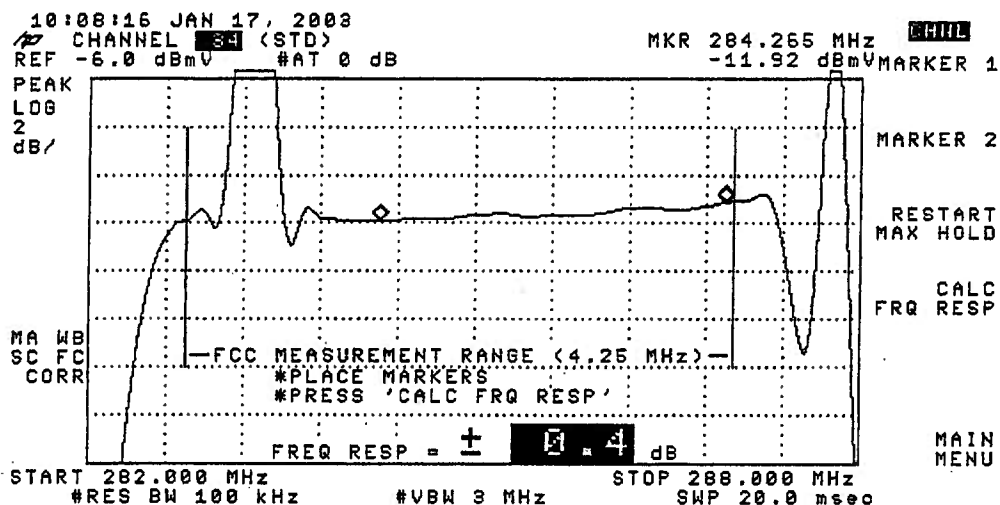
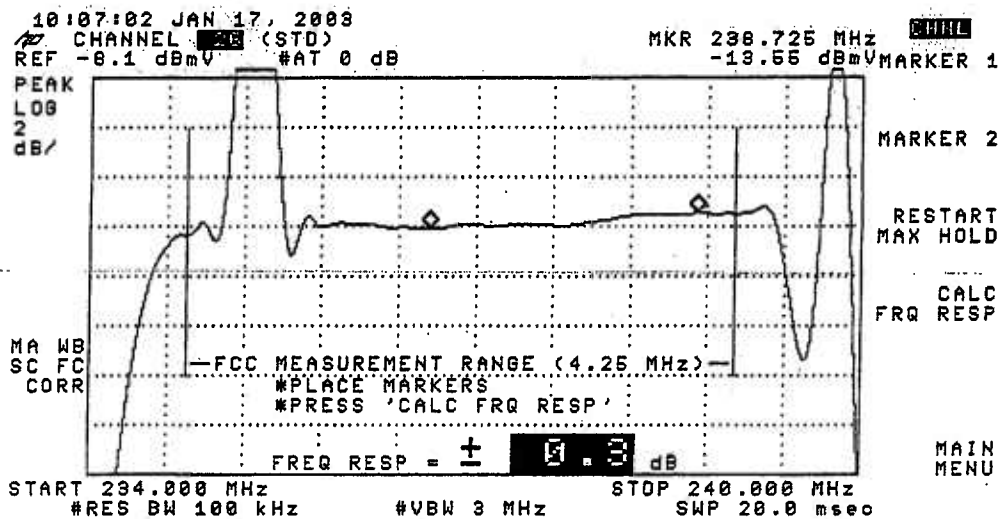
MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 126.000 MHz STOP 132.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec



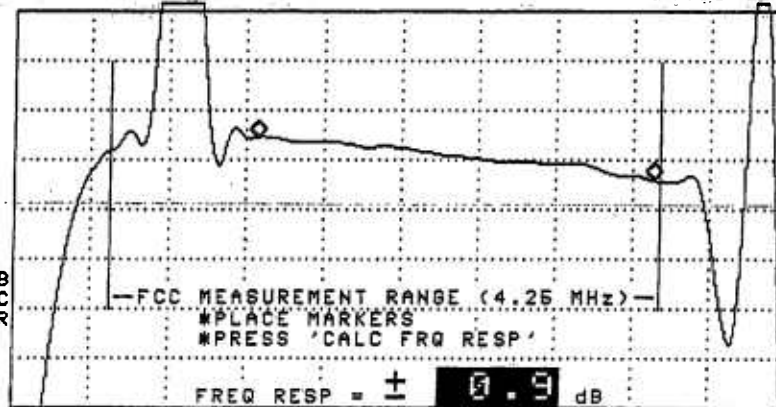
10:10:25 JAN 17, 2003

CHANNEL 50 (STD)
REF -7.8 dBmV #AT 0 dB

MKR 382.965 MHz
-14.60 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 378.000 MHz
#RES BW 100 kHz

#VBW 3 MHz

STOP 384.000 MHz
SWP 20.0 msec

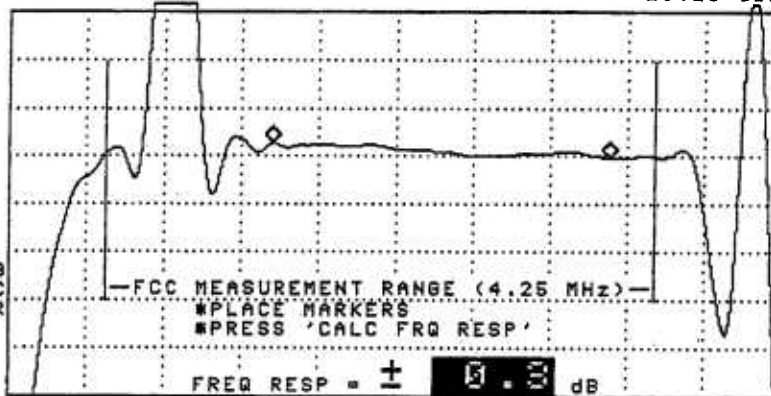
10:11:37 JAN 17, 2003

CHANNEL 62 (STD)
REF -7.1 dBmV #AT 0 dB

MKR 454.665 MHz
-13.19 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 450.000 MHz
#RES BW 100 kHz

#VBW 3 MHz

STOP 456.000 MHz
SWP 20.0 msec

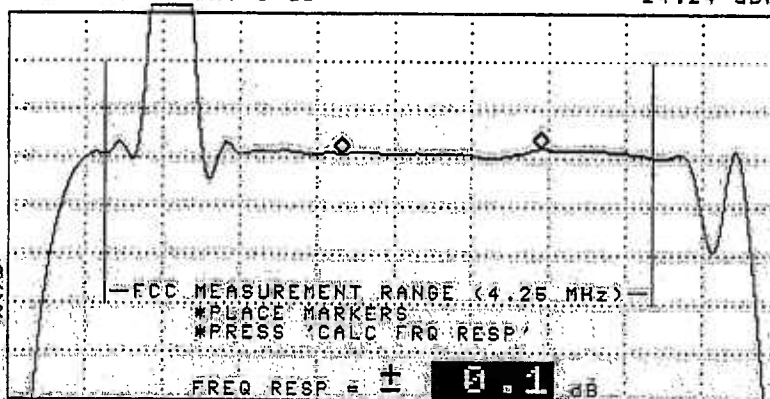
10:12:51 JAN 17, 2003

CHANNEL 78 (STD)
REF -8.4 dBmV #AT 0 dB

MKR 548.595 MHz
-14.24 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 546.000 MHz
#RES BW 100 kHz

#VBW 3 MHz

STOP 552.000 MHz
SWP 20.0 msec

TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

NORTH ST. / ADAMS CENTER

Date:

01/30/03

Performed by:

DENIS RHUBART

Meter Serial Number:

9253718

Chan	Freq (MHz)	Visual Level (dBmV)					Chan	Freq (MHz)	Visual Level (dBmV)				
		14	18	21	18				14	18	21	18	
		1:00	7:00	13:00	19:00				1:00	7:00	13:00	19:00	
2	55.2500	6.3	6.6	7.0	6.7	0.7	DD(40)	319.2625	7.9	8.7	8.6	8.8	0.9
3	61.2500	8.5	8.6	8.7	8.5	0.2	EE(41)	325.2625	7.7	8.5	8.5	8.5	0.8
4	67.2500	7.9	8.2	8.4	8.2	0.5	FF(42)	331.2750	8.5	8.9	9.1	8.3	0.8
5	77.2500	7.3	8.2	8.5	7.8	1.2	GG(43)	337.2625	8.9	9.9	9.6	9.8	1
6	83.2500	7.9	8.7	8.4	8.1	0.8	HH(44)	343.2625	7.4	7.6	8.4	8.5	1.1
A-5(95)	91.2500						II(45)	349.2625	9.0	9.5	9.7	9.7	0.7
A-4(96)	97.2500	7.5	8.2	8.5	8.4	1	JJ(46)	355.2625	9.1	9.7	10.0	9.8	0.9
A-3(97)	103.2500						KK(47)	361.2625	9.9	10.4	10.5	10.6	0.7
A-2(98)	109.2750						LL(48)	367.2625	9.1	9.5	9.7	9.6	0.6
A-1(99)	115.2750	7.9	8.3	8.1	8.2	0.4	MM(49)	373.2625	7.4	7.9	8.0	8.2	0.8
A(14)	121.2625	8.3	8.8	9.8	8.9	1.5	NN(50)	379.2625	8.5	9.0	9.0	8.9	0.5
B(15)	127.2625	8.4	8.6	8.6	8.6	0.2	OO(51)	385.2625	8.4	9.3	8.8	9.2	0.9
C(16)	133.2625	8.2	8.4	8.7	9.1	0.9	PP(52)	391.2625	8.2	8.8	8.7	8.4	0.5
D(17)	139.2500	6.9	7.3	7.8	7.5	0.9	QQ(53)	397.2625	8.1	8.4	8.6	8.2	0.5
E(18)	145.2500	7.4	8.0	8.2	7.9	0.8	RR(54)	403.2500	8.9	9.4	9.4	9.6	0.7
F(19)	151.3210	9.6	10.0	10.3	10.2	0.7	SS(55)	409.2500	8.0	8.1	8.6	8.5	0.6
G(20)	157.2500	7.9	7.9	8.3	8.0	0.4	TT(56)	415.2500	8.2	8.6	8.1	8.7	0.6
H(21)	163.2500	8.4	8.8	8.8	8.8	0.4	UU(57)	421.2500	9.0	9.8	9.8	9.6	0.8
I(22)	169.2500	8.9	9.5	9.6	9.5	0.7	VV(58)	427.2500	7.9	8.3	8.7	8.7	0.8
7	175.2500	8.7	9.0	9.6	9.2	0.9	WW(59)	433.2500	8.5	9.1	9.1	9.1	0.6
8	181.2500	9.3	9.6	9.9	10.0	0.7	XX(60)	439.2500	9.2	9.4	9.3	9.6	0.4
9	187.2500	8.9	9.2	9.5	9.4	0.6	YY(61)	445.2500	8.9	9.1	9.5	9.4	0.6
10	193.2500	8.5	9.0	9.1	9.0	0.6	ZZ(62)	451.2500	7.9	8.7	8.9	8.8	1
11	199.2500	7.4	8.1	8.3	8.0	0.9	63	457.2500	8.5	9.2	8.9	8.6	0.7
12	205.2500	7.2	7.3	7.7	7.2	0.5	64	463.2500	8.8	9.5	9.2	9.6	0.8
13	211.2500	7.2	7.4	8.4	8.2	1.2	65	469.2500	8.7	9.0	9.1	9.2	0.5
J(23)	217.2500	6.7	7.3	7.6	7.4	0.9	66	475.2500	7.9	8.5	9.2	8.7	1.3
K(24)	223.2500	5.4	6.1	6.3	6.3	0.9	67	481.2500	7.4	7.9	7.7	8.2	0.8
L(25)	229.2625	5.8	6.2	6.6	6.3	0.8	68	487.2500	9.4	9.9	10.1	10.2	0.8
M(26)	235.2625	6.0	6.5	6.8	6.8	0.8	69	493.2500	7.9	8.2	8.1	8.0	0.3
N(27)	241.2625	6.8	7.7	7.1	6.9	0.9	70	499.2500	7.6	8.4	8.2	8.3	0.8
O(28)	247.2625	6.4	7.3	7.8	7.2	1.4	71	505.2500	7.8	8.5	8.4	8.6	0.8
P(29)	253.2625	7.2	8.3	8.6	8.1	1.4	72	511.2500	8.1	8.9	9.2	9.0	1.1
Q(30)	259.2625	7.0	7.7	7.9	7.9	0.9	73	517.2500	7.7	8.6	8.3	8.2	0.9
R(31)	265.2625	7.1	7.3	7.5	7.6	0.5	74	523.2500	8.1	8.8	8.8	8.7	0.7
S(32)	271.2625	8.5	9.1	9.0	9.1	0.6	75	529.2500	8.4	8.9	9.0	8.3	0.7
T(33)	277.2625	8.5	9.3	9.7	9.6	1.2	76	535.2500	8.1	8.2	8.1	9.1	1
U(34)	283.2625	8.9	9.3	9.8	9.7	0.9	77	541.2500	9.0	8.7	9.1	9.1	0.4
V(35)	289.2625	8.6	9.1	9.2	8.9	0.6	78	547.2500	7.5	8.7	8.1	9.1	1.6
W(36)	295.2625	7.8	8.2	8.1	8.1	0.4	79	553.0000					
AA(37)	301.2625	8.6	8.7	8.9	8.8	0.3	80	559.0000					
BB(38)	307.2625	7.9	8.9	8.4	8.6	1	81	565.0000					
CC(39)	313.2625	8.3	8.8	8.7	9.1	0.8							

Max NonAdjacent Channel Level Diff.

Max Adjacent Channel Level Diff.

Max Variance from last proof-of-performance test

Date of last proof-of-performance test

Note: Make measurements through a 100 ft. test drop cable without a converter

4.5

2.4

1.60

N/A

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name:	<u>Carthage / Watertown</u>
System Test Point #	<u>13</u>
Hub Name:	<u>LOWVILLE</u>
Location / Community:	<u>LAMPHER ST. / LOWVILLE</u>
Map Number:	<u>512-5906</u>
Pole Number:	<u>3</u>
D.T. Value:	<u>23-4</u>
OR Number:	<u>622</u>
GNA Cascade:	<u>2</u>
LE Cascade:	<u>2</u>

TIME WARNER CABLE – SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: LAMPHER ST./ LOWVILLE
Date : 01/16/03
Time : 2:37

Chan	Freq (MHz)	Visual (dbmV)	Aural (dbmV)	S	Chan	Freq (MHz)	Visual (dbmV)	Aural (dbmV)	S
2	55.2500	13.5	0.5	13.0	DD(40)	319.2625	10.7	-3.8	14.5
3	61.2500	13.7	-1.1	14.8	EE(41)	325.2625	11.1	-4.0	15.1
4	67.2500	14.0	-0.4	14.4	FF(42)	331.2750	10.9	-4.0	14.9
5	77.2500	13.0	-1.2	14.2	GG(43)	337.2625	10.9	-3.7	14.6
6	83.2500	12.6	-2.4	15.0	HH(44)	343.2625	10.5	-4.0	14.5
A-5(95)	91.2500	N/A	N/A	N/A	II(45)	349.2625	12.6	-1.2	13.8
A-4(98)	97.2500	12.6	-2.5	15.1	JJ(46)	355.2625	11.8	-2.3	13.9
A-3(97)	103.2500	N/A	N/A	N/A	KK(47)	361.2625	11.9	-2.7	14.6
A-2(98)	109.2750	N/A	N/A	N/A	LL(48)	367.2625	11.9	-3.0	14.9
A-1(99)	115.2750	12.3	-1.8	14.1	MM(49)	373.2625	10.4	-4.1	14.5
A(14)	121.2625	12.9	-2.0	14.9	NN(50)	379.2625	10.3	-4.2	14.5
B(15)	127.2625	12.4	-2.4	14.8	OO(51)	385.2625	10.3	-4.8	15.1
C(16)	133.2625	12.2	-2.9	15.1	PP(52)	391.2625	10.1	-3.9	14.0
D(17)	139.2500	11.3	-3.9	15.2	QQ(53)	397.2625	10.1	-4.5	14.6
E(18)	145.2500	11.3	-3.3	14.6	RR(54)	403.2500	10.8	-4.3	15.1
F(19)	151.3210	13.2	-1.1	14.3	SS(55)	409.2500	10.6	-2.4	13.0
G(20)	157.2500	11.1	-3.5	14.6	TT(56)	415.2500	10.8	-4.3	15.1
H(21)	163.2500	11.1	-2.7	13.8	UU(57)	421.2500	10.8	-2.9	13.7
I(22)	169.2500	11.8	-2.7	14.5	VV(58)	427.2500	9.6	-4.3	13.9
7	175.2500	11.1	-3.8	14.9	WW(59)	433.2500	10.3	-4.3	14.6
8	181.2500	11.2	-3.4	14.6	XX(60)	439.2500	10.7	-3.8	14.5
9	187.2500	11.5	-2.9	14.4	YY(61)	445.2500	11.5	-2.4	13.9
10	193.2500	11.4	-3.7	15.1	ZZ(62)	451.2500	11.6	-2.9	14.5
11	199.2500	10.7	-3.3	14.0	63	457.2500	11.1	-3.3	14.4
12	205.2500	10.0	-4.7	14.7	64	463.2500	11.3	-3.5	14.8
13	211.2500	10.4	-4.3	14.7	65	469.2500	11.5	-3.3	14.8
J(23)	217.2500	10.0	-4.8	14.8	66	475.2500	10.4	-4.0	14.4
K(24)	223.2500	10.8	-2.9	13.7	67	481.2500	9.7	-4.2	13.9
L(25)	229.2625	10.3	-4.0	14.3	68	487.2500	10.3	-4.5	14.8
M(26)	235.2625	10.8	-3.8	14.6	69	493.2500	10.0	-4.5	14.5
N(27)	241.2625	10.2	-4.7	14.9	70	499.2500	10.5	-4.1	14.6
O(28)	247.2625	10.3	-4.1	14.4	71	505.2500	10.7	-4.1	14.8
P(29)	253.2625	11.2	-2.8	14.0	72	511.2500	10.4	-4.5	14.9
Q(30)	259.2625	10.9	-3.8	14.7	73	517.2500	11.2	-3.2	14.4
R(31)	265.2625	10.5	-4.0	14.5	74	523.2500	11.3	-3.6	14.9
S(32)	271.2625	11.8	-3.3	15.1	75	529.2500	11.1	-2.8	13.9
T(33)	277.2625	11.4	-2.9	14.3	76	535.2500	11.3	-3.9	15.2
U(34)	283.2625	11.7	-2.8	14.5	77	541.2500	10.3	-4.4	14.7
V(35)	289.2625	11.3	-2.8	14.1	78	547.2500	10.3	-4.7	16.0
W(36)	295.2625	10.8	-3.5	14.3	79	553.0000	N/A	N/A	N/A
AA(37)	301.2625	11.1	-3.9	15.0	80	559.0000	N/A	N/A	N/A
BB(38)	307.2625	10.7	-3.9	14.6	81	565.0000	N/A	N/A	N/A
CC(39)	313.2625	11.3	-3.5	14.8					

Min Channel :-
Max Channel :-

VV(58)

4

9.6

14

PEAK TO VALLEY: 4.40

TIME WARNER CABLE -- SYRACUSE DIVISION

IN CHANNEL RESPONSE Test
CARRIER - TO - NOISE Test
COHERENT DISTURBANCES Test
LOW FREQUENCY DISTURBANCES Test

System Name: Carthage / Watertown

Date: January 15, 2003

Test Performed By: MARK FAVRET

Location: LAMPHER ST. / LOWVILLE

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	Channel Response (μ /dB)	To Noise Ratio (dB)	Distortions (dB) CTB	C/SO	HUM (%)
3	0.5	49.7	68.0	68.3	0.2
12	0.9	49.5	61.9	68.0	
15	0.5	49.8	63.5	67.7	
26	0.3	48.8	61.6	66.4	
34	0.4	50.5	62.6	65.2	
41	0.2	49.1	60.4	71.7	
50	0.7	49.2	60.1	64.1	
62	0.3	48.6	64.4	66.8	
78	0.2	47.8	64.8	68.4	

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 15, 2003

Test Performed By: MARK FAVRET

Location: LAMPHER ST./ LOWVILLE

(SEE THE ATTACHED SWEEP TRACES)

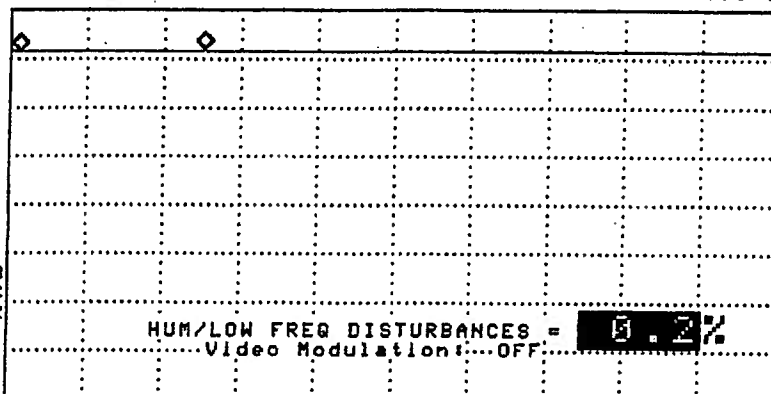
12:19:45 JAN 15, 2003
CHANNEL 3 (STD)
REF 14.8 dBmV AT 10 dB

MKR Δ -12.000 msec
-0.05 dB

CHNL

PEAK
LOG
1
dB/

WA SB
SC FC
CORR



MORE
INFO

MAIN
MENU

START 61.248 MHz
#RES BW 1.0 MHz

#VBW 1 kHz

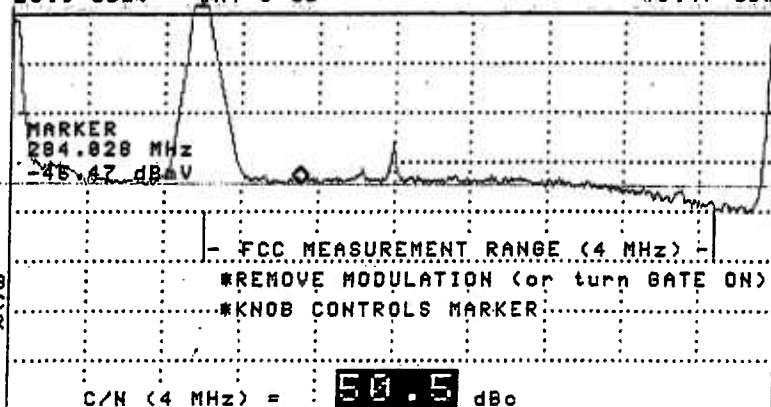
STOP 61.248 MHz
#SWP 50.0 msec

12:81:48 JAN 15, 2003
 CHANNEL 3 (STD)
 REF -10.9 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 284.028 MHz
 -45.47 dBmV

CHNL
 GATE
 ON OFF

VA WB
 SC FC
 CORR



AVERAGE
 ON OFF

MORE
 INFO

More

MAIN
 MENU

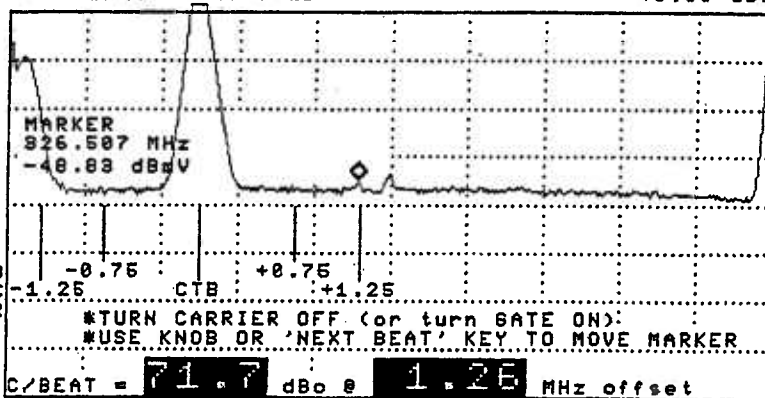
START 281.769 MHz STOP 287.763 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec

12:95:45 JAN 15, 2003
 CHANNEL 3 (STD)
 REF -14.0 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 326.507 MHz
 -48.83 dBmV

CHNL
 GATE
 ON OFF

VA WB
 SC FC
 CORR



AVERAGE
 ON OFF

ZOOM &
 MEASURE

NEXT
 BEAT

More

MAIN
 MENU

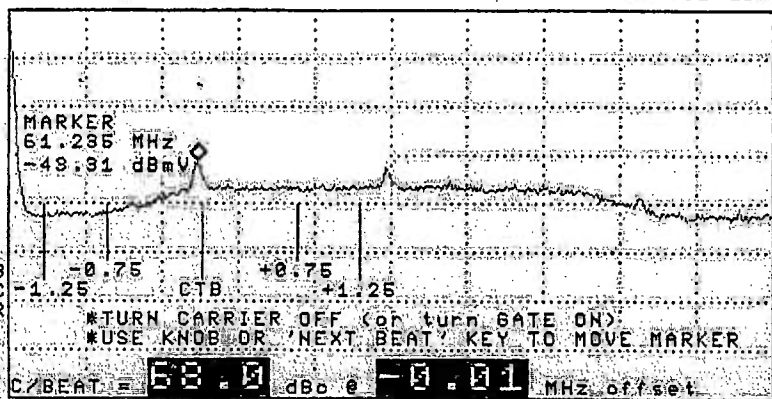
START 323.762 MHz STOP 329.762 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec

12:22:48 JAN 15, 2003
 CHANNEL 3 (STD)
 REF -12.2 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 61.235 MHz
 -49.91 dBmV

CHNL
 GATE
 ON OFF

VA WB
 SC FC
 CORR



AVERAGE
 ON OFF

ZOOM &
 MEASURE

NEXT
 BEAT

More

MAIN
 MENU

START 59.750 MHz STOP 65.750 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec

12:42:14 JAN 15, 2003

CHANNEL 15 (STD)

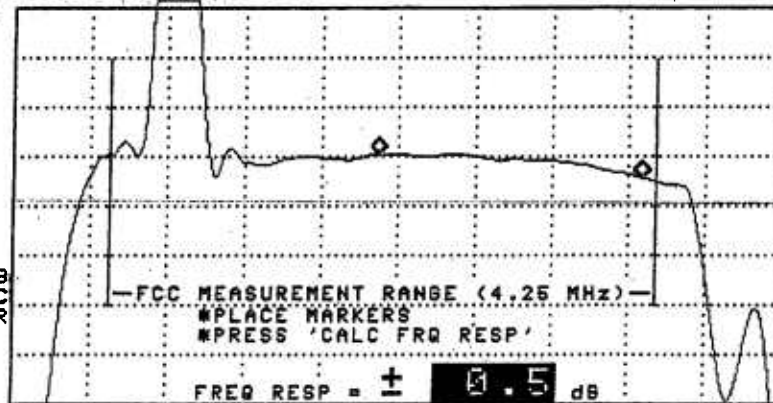
REF -2.9 dBmV #AT 0 dB

MKR 64.905 MHz

-9.72 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 60.000 MHz

#RES BW 100 kHz

#VBW 3 MHz

STOP 66.000 MHz

SWP 20.0 msec

12:43:29 JAN 15, 2003

CHANNEL 15 (STD)

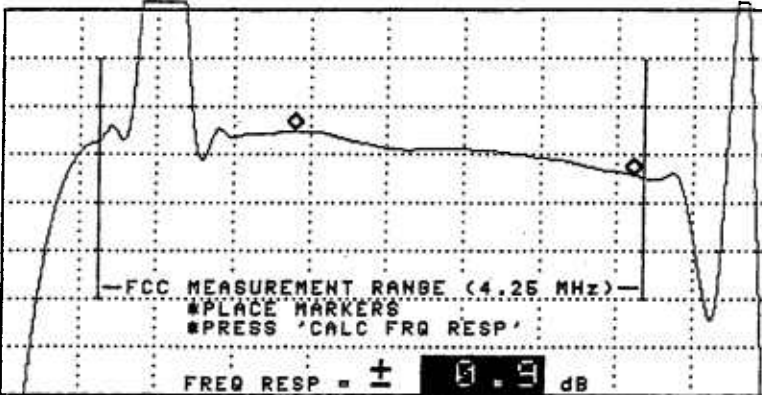
REF -7.5 dBmV #AT 0 dB

MKR 208.935 MHz

-14.34 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 204.000 MHz

#RES BW 100 kHz

#VBW 3 MHz

STOP 210.000 MHz

SWP 20.0 msec

12:44:38 JAN 15, 2003

CHANNEL 15 (STD)

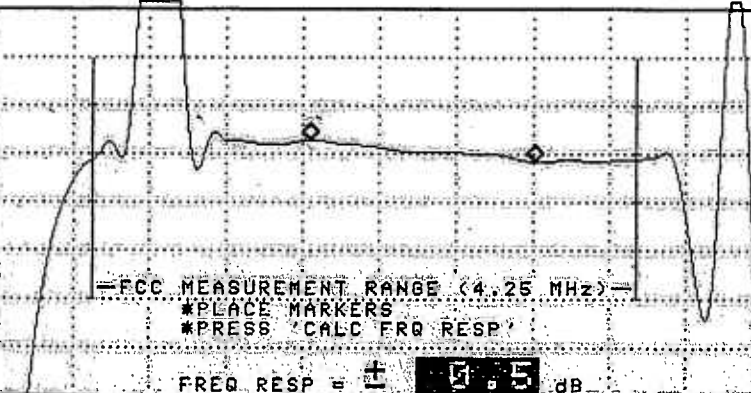
REF -4.1 dBmV #AT 0 dB

MKR 130.215 MHz

-10.40 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 126.000 MHz

#RES BW 100 kHz

#VBW 3 MHz

STOP 132.000 MHz

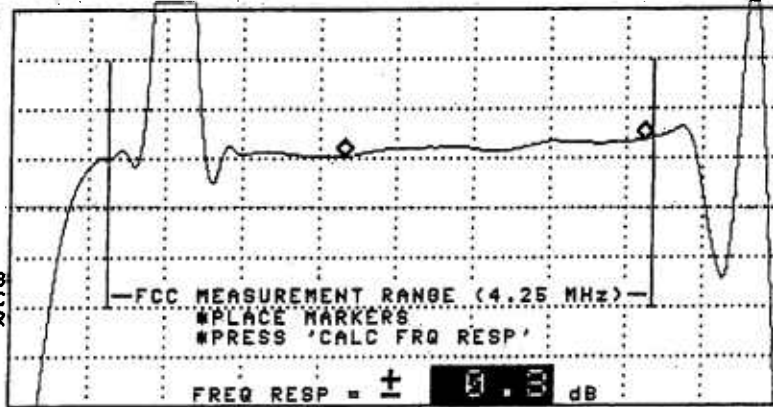
SWP 20.0 msec

12:45:41 JAN 15, 2003
CHANNEL 3 (STD)
REF -6.2 dBmV #AT 0 dB

MKR 236.595 MHz
-12.16 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

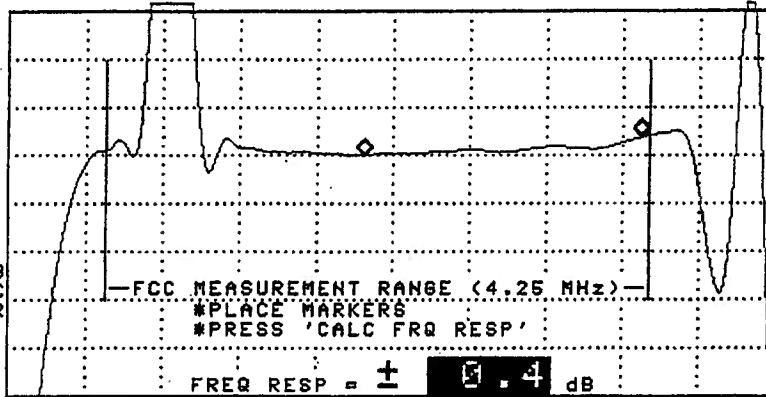
START 234.000 MHz STOP 240.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

12:46:48 JAN 15, 2003
CHANNEL 3 (STD)
REF -4.9 dBmV #AT 0 dB

MKR 284.775 MHz
-10.84 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

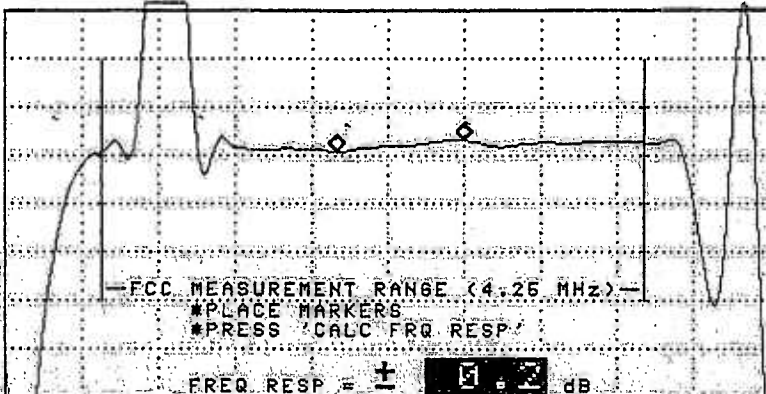
START 282.000 MHz STOP 288.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

12:47:59 JAN 15, 2003
CHANNEL 3 (STD)
REF -5.7 dBmV #AT 0 dB

MKR 326.595 MHz
-11.50 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

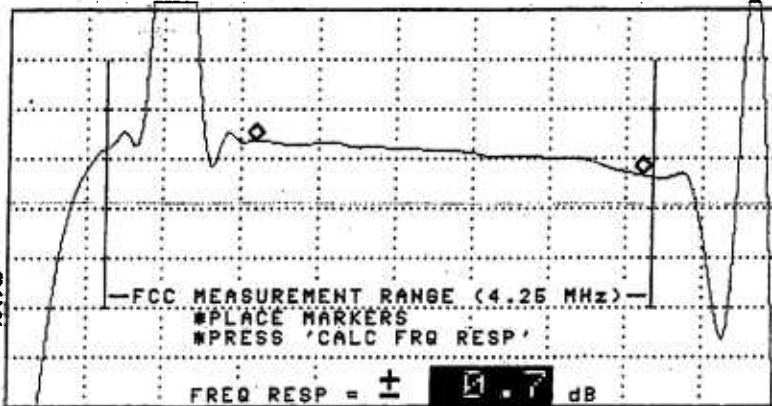
START 324.000 MHz STOP 330.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

12:49:12 JAN 15, 2003
CHANNEL 50 (STD)
REF -7.1 dBmV #AT 0 dB

MKR 382.935 MHz
-13.77 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

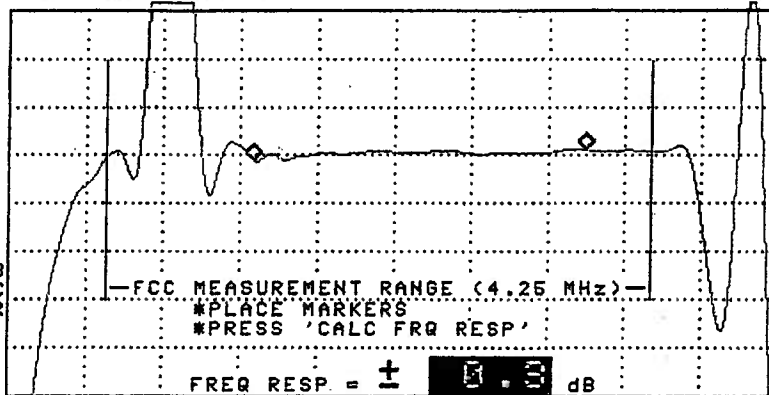
START 378.000 MHz STOP 384.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

12:50:46 JAN 15, 2003
CHANNEL 50 (STD)
REF -5.4 dBmV #AT 0 dB

MKR 451.905 MHz
-11.63 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

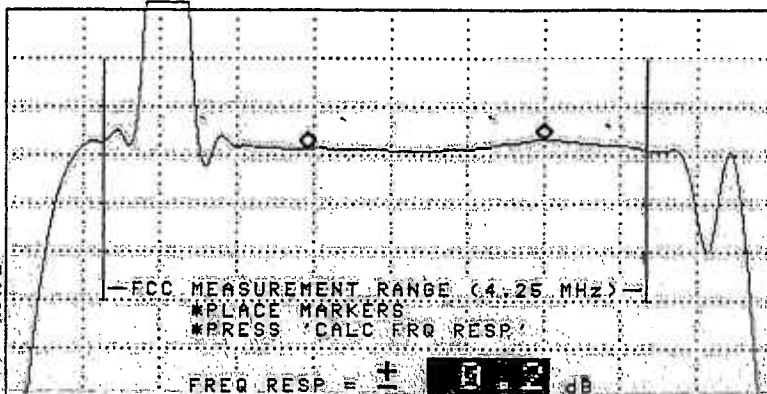
START 450.000 MHz STOP 456.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

12:52:01 JAN 15, 2003
CHANNEL 50 (STD)
REF -7.1 dBmV #AT 0 dB

MKR 548.355 MHz
-12.85 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 546.000 MHz STOP 552.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

LAMPHER ST./LOWVILLE

Date:

01/16/03

Performed by:

DENIS RHUBART

Meter Serial Number:

9253718

Chan	(MHz)	Temp. F				Var	Chan	(MHz)	Temp. F				Var
		13	16	24	18				13	16	24	18	
		Time							Time				
		2:37	8:37	14:37	20:37				2:37	8:37	14:37	20:37	
Visual Level (dBmV)						Visual Level (dBmV)							
2	55.2500	13.5	13.8	13.6	13.9	0.4	DD(40)	319.2625	10.7	10.9	10.4	10.5	0.5
3	61.2500	13.7	13.9	13.7	14.0	0.3	EE(41)	325.2625	11.1	10.8	10.9	10.5	0.6
4	67.2500	14.0	14.3	14.3	14.5	0.5	FF(42)	331.2750	10.9	11.0	10.4	10.5	0.6
5	77.2500	13.0	13.2	13.1	13.4	0.4	GG(43)	337.2625	10.9	11.1	11.1	11.5	0.6
6	83.2500	12.6	12.9	13.3	12.9	0.7	HH(44)	343.2625	10.5	10.2	10.6	10.9	0.7
A-5(95)	91.2500						II(45)	349.2625	12.6	12.6	12.4	13.0	0.6
A-4(96)	97.2500	12.6	13.0	13.3	13.4	0.8	JJ(46)	355.2625	11.6	11.1	11.4	11.3	0.5
A-3(97)	103.2500						KK(47)	361.2625	11.9	12.0	11.8	11.9	0.2
A-2(98)	109.2750						LL(48)	367.2625	11.9	10.9	11.0	10.8	1.1
A-1(99)	115.2750	12.3	12.6	12.4	12.6	0.3	MM(49)	373.2625	10.4	10.0	10.4	10.1	0.4
A(14)	121.2625	12.9	12.5	12.8	12.8	0.4	NN(50)	379.2625	10.3	10.6	10.5	10.8	0.5
B(15)	127.2625	12.4	12.6	12.7	12.2	0.5	OO(51)	385.2625	10.3	10.4	10.4	10.4	0.1
C(16)	133.2625	12.2	13.3	13.4	13.5	1.3	PP(52)	391.2625	10.1	9.4	10.2	9.6	0.8
D(17)	139.2500	11.3	12.1	11.9	12.2	0.9	QQ(53)	397.2625	10.1	10.1	9.5	9.4	0.7
E(18)	145.2500	11.3	12.4	12.7	12.4	1.4	RR(54)	403.2500	10.8	10.3	10.3	10.2	0.6
F(19)	151.3210	13.2	13.6	13.4	12.8	0.8	SS(55)	409.2500	10.6	10.5	10.6	10.5	0.1
G(20)	157.2500	11.1	12.1	12.2	12.3	1.2	TT(56)	415.2500	10.8	10.7	10.0	9.5	1.3
H(21)	163.2500	11.1	12.2	12.3	12.4	1.3	UU(57)	421.2500	10.8	10.6	10.5	10.3	0.5
I(22)	169.2500	11.8	12.7	12.8	12.8	1	VV(58)	427.2500	9.6	9.4	9.3	9.9	0.6
7	175.2500	11.1	11.6	11.8	11.8	0.7	WW(59)	433.2500	10.3	10.6	10.6	10.4	0.3
8	181.2500	11.2	11.9	12.0	11.7	0.8	XX(60)	439.2500	10.7	11.1	11.2	11.1	0.5
9	187.2500	11.5	11.9	11.4	11.6	0.5	YY(61)	445.2500	11.5	11.4	11.6	11.5	0.2
10	193.2500	11.4	11.7	11.7	11.7	0.3	ZZ(62)	451.2500	11.6	11.3	11.2	11.4	0.4
11	199.2500	10.7	10.6	10.6	11.0	0.4	63	457.2500	11.1	11.0	11.0	11.0	0.1
12	205.2500	10.0	9.4	9.3	9.7	0.7	64	463.2500	11.3	11.0	10.9	11.1	0.4
13	211.2500	10.4	10.2	10.3	10.2	0.2	65	469.2500	11.5	11.3	10.9	10.8	0.7
J(23)	217.2500	10.0	11.4	11.1	11.1	1.4	66	475.2500	10.4	10.6	10.2	10.5	0.4
K(24)	223.2500	10.8	11.7	10.8	10.2	1.5	67	481.2500	9.7	9.7	10.1	9.8	0.4
L(25)	229.2625	10.3	11.8	11.4	11.3	1.5	68	487.2500	10.3	11.8	11.4	11.2	1.5
M(26)	235.2625	10.8	11.5	11.2	11.5	0.7	69	493.2500	10.0	10.3	10.1	10.1	0.3
N(27)	241.2625	10.2	11.2	11.0	10.3	1	70	499.2500	10.5	10.8	10.6	10.7	0.3
O(28)	247.2625	10.3	10.5	10.5	10.8	0.5	71	505.2500	10.7	11.1	11.1	10.8	0.4
P(29)	253.2625	11.2	10.7	10.0	11.4	1.4	72	511.2500	10.4	11.2	11.3	11.2	0.9
Q(30)	259.2625	10.9	10.1	10.5	10.1	0.8	73	517.2500	11.2	11.7	11.2	11.1	0.6
R(31)	265.2625	10.5	10.5	10.9	10.6	0.4	74	523.2500	11.3	11.7	11.6	11.3	0.4
S(32)	271.2625	11.8	11.6	11.0	10.7	1.1	75	529.2500	11.1	12.1	11.3	11.1	1
T(33)	277.2625	11.4	11.2	11.1	11.2	0.3	76	535.2500	11.3	11.7	11.4	11.6	0.4
U(34)	283.2625	11.7	11.4	11.6	11.5	0.3	77	541.2500	10.3	10.5	10.4	10.8	0.5
V(35)	289.2625	11.3	11.2	11.4	11.2	0.2	78	547.2500	10.3	10.7	10.9	10.4	0.6
W(36)	295.2625	10.8	11.4	10.8	11.1	0.6	79	553.0000					
AA(37)	301.2625	11.1	11.0	10.9	10.8	0.3	80	559.0000					
BB(38)	307.2625	10.7	10.7	10.7	10.3	0.4	81	565.0000					
CC(39)	313.2625	11.3	11.3	10.9	10.9	0.4							

Max NonAdjacent Channel Level Diff.

Max Adjacent Channel Level Diff.

Max Variance from last proof-of-performance test

Date of last proof-of-performance test

Note: Make measurements through a 100 ft. test drop cable without a converter

5:1

2:4

1:50

N/A

TIME WARNER CABLE -- SYRACUSE DIVISION

System Name: Carthage / Watertown

System Test Point # 14

Hub Name: LOWVILLE

Location / Community: RT.26 MARTINSBURG / BRANTINGHAM

Map Number: 512-5898

Pole Number: 52 over 412

D.T. Value: 26-2

OR Number: 638

GNA Cascade: 5

LE Cascade: 2

TIME WARNER CABLE -- SYRACUSE DIVISION

Visual Carrier Level
Visual / Aural Level Difference
(at Test Point, at The End of a 100' Drop)

System Name: Carthage / Watertown
Test Location: RT.26 MARTINSBURG / BRANTINGHAM
Date: 01/16/03
Time: 13:00

Chan	Freq	Visual (dbmV)	Aural (dbmV)	Diff (dbmV)	Chan	Freq	Visual (dbmV)	Aural (dbmV)	Diff (dbmV)
2	55.2500	7.8	-7.0	14.8	DD(40)	319.2625	6.8	-8.2	15.0
3	61.2500	9.5	-5.7	15.2	EE(41)	325.2625	6.6	-8.1	14.7
4	67.2500	8.6	-8.0	14.6	FF(42)	331.2750	6.8	-8.2	15.0
5	77.2500	7.3	-7.3	14.6	GG(43)	337.2625	6.9	-7.8	14.7
6	83.2500	6.9	-8.2	15.1	HH(44)	343.2625	6.8	-7.6	14.4
A-5(95)	91.2500	N/A	N/A	N/A	II(45)	349.2625	6.6	-4.9	13.5
A-4(96)	97.2500	6.9	-8.1	15.0	JJ(46)	355.2625	7.4	-6.3	13.7
A-3(97)	103.2500	N/A	N/A	N/A	KK(47)	361.2625	8.1	-6.8	14.9
A-2(98)	109.2750	N/A	N/A	N/A	LL(48)	367.2625	7.2	-6.0	13.2
A-1(99)	115.2750	8.5	-6.1	14.6	MM(49)	373.2625	6.6	-7.5	14.1
A(14)	121.2625	8.4	-6.7	15.1	NN(50)	379.2625	7.5	-7.8	15.3
B(15)	127.2625	7.6	-7.3	14.9	OO(51)	385.2625	6.9	-7.8	14.7
C(16)	133.2625	7.1	-7.5	14.6	PP(52)	391.2625	7.1	-7.0	14.1
D(17)	139.2500	7.2	-7.6	14.8	QQ(53)	397.2625	6.6	-8.5	15.1
E(18)	145.2500	8.1	-7.1	15.2	RR(54)	403.2500	6.7	-7.9	14.6
F(19)	151.3210	9.7	-5.5	15.2	SS(55)	409.2500	6.3	-7.3	13.6
G(20)	157.2500	8.4	-6.9	15.3	TT(56)	415.2500	6.9	-8.3	15.2
H(21)	163.2500	7.9	-5.5	13.4	UU(57)	421.2500	7.5	-8.1	13.6
I(22)	169.2500	8.5	-5.6	14.1	VV(58)	427.2500	6.7	-7.8	14.5
7	175.2500	8.3	-6.5	14.8	WW(59)	433.2500	7.4	-7.1	14.5
8	181.2500	8.6	-5.9	14.5	XX(60)	439.2500	7.6	-7.2	14.8
9	187.2500	9.1	-6.0	15.1	YY(61)	445.2500	8.6	-4.5	13.1
10	193.2500	8.2	-6.1	14.3	ZZ(62)	451.2500	8.3	-7.0	15.3
11	199.2500	8.4	-5.3	13.7	63	457.2500	8.1	-6.4	14.5
12	205.2500	8.2	-6.5	14.7	64	463.2500	8.5	-6.1	14.6
13	211.2500	8.6	-5.8	14.4	65	469.2500	8.1	-6.5	14.6
J(23)	217.2500	7.9	-6.4	14.3	66	475.2500	7.5	-7.6	15.1
K(24)	223.2500	7.2	-7.0	14.2	67	481.2500	7.1	-7.1	14.2
L(25)	229.2625	7.1	-7.5	14.6	68	487.2500	7.3	-7.6	14.9
M(26)	235.2625	7.2	-6.7	13.9	69	493.2500	7.0	-7.4	14.4
N(27)	241.2625	7.4	-7.4	14.8	70	499.2500	7.9	-6.8	14.7
O(28)	247.2625	7.5	-7.1	14.6	71	505.2500	7.8	-6.8	14.6
P(29)	253.2625	8.1	-6.2	14.3	72	511.2500	7.6	-7.5	15.1
Q(30)	259.2625	7.4	-7.2	14.6	73	517.2500	7.7	-6.5	14.2
R(31)	265.2625	7.5	-7.3	14.8	74	523.2500	7.8	-7.1	14.9
S(32)	271.2625	8.7	-6.5	15.2	75	529.2500	7.9	-6.3	14.2
T(33)	277.2625	8.3	-6.2	14.5	76	535.2500	7.8	-7.7	15.5
U(34)	283.2625	8.3	-5.8	14.1	77	541.2500	7.8	-7.1	14.9
V(35)	289.2625	8.7	-5.8	14.5	78	547.2500	7.7	-7.5	15.2
W(36)	295.2625	7.6	-7.1	14.7	79	553.0000	N/A	N/A	N/A
AA(37)	301.2625	7.7	-7.4	15.1	80	559.0000	N/A	N/A	N/A
BB(38)	307.2625	7.1	-7.6	14.7	81	565.0000	N/A	N/A	N/A
CC(39)	313.2625	7.6	-7.7	15.3					

Min Channel :-
Max Channel :-

SS(55)
F(19)

6.3
9.7

PEAK TO VALLEY: 3.40

TIME WARNER CABLE -- SYRACUSE DIVISION

IN CHANNEL RESPONSE Test
CARRIER - TO - NOISE Test
COHERENT DISTURBANCES Test
LOW FREQUENCY DISTURBANCES Test

System Name: Carthage / Watertown

Date: January 15, 2003

Test Performed By: MARK FAVRET

Location: RT.26 MARTINSBURG/BRANTINGHAM

Note: Make measurements through a 100 ft. test drop cable without converter.

Channel Number	In Channel Response (- dB)	Carrier To Noise Ratio (dB)	Distortions (dBc) CTB	CSO	HUM (%)
3	0.5	48.7	65.5	66.4	0.3
12	0.5	48.0	60.7	66.2	
15	0.6	48.0	64.0	65.4	
26	0.4	46.8	61.8	67.0	
34	0.4	47.1	61.5	66.8	
41	0.2	46.3	60.4	63.2	
50	0.7	46.9	60.8	67.2	
62	0.2	47.2	64.4	64.6	
78	0.2	47.0	62.8	65.6	

TIME WARNER CABLE -- SYRACUSE DIVISION

IN - CHANNEL FREQUENCY RESPONSE TEST

(76.605) (a) (6)

System Name: Carthage / Watertown

Date: January 15, 2003

Test Performed By: MARK FAVRET

Location: RT.26 MARTINSBURG / BRANTINGHAM

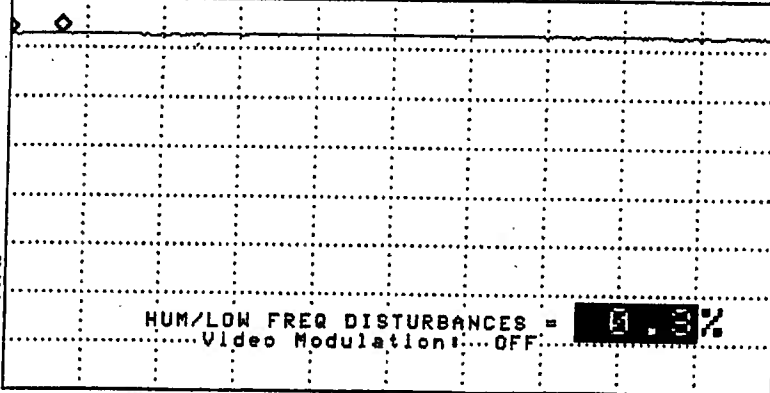
(SEE THE ATTACHED SWEEP TRACES)

10:54:19 JAN 15, 2003
CHANNEL 3 (STD)
REF 10.0 dBmV #AT 0 dB

MKR Δ -3.9750 msec
-0.02 dB

CHNL

PEAK
LOG
1
dB/



WA SB
SC FC
CORR

MORE
INFO

MAIN
MENU

START 61.285 MHz
#RES BW 1.0 MHz

#VBW 1 kHz

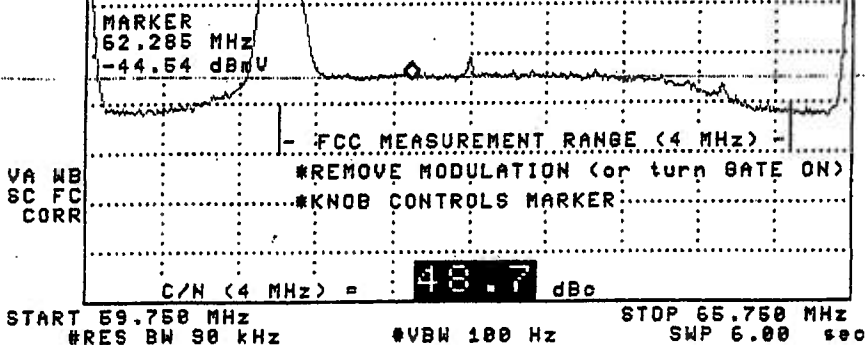
STOP 61.295 MHz
#SWP 50.0 msec

10:56:22 JAN 15, 2003
 CHANNEL **53** (STD)
 REF -9.8 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 62.285 MHz
 -44.54 dBmV

CHNL
 GATE
 ON OFF

AVERAGE
 ON OFF



MORE
 INFO

More

MAIN
 MENU

11:20:01 JAN 15, 2003
 CHANNEL **53** (STD)
 REF -16.5 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 380.493 MHz
 -50.41 dBmV

CHNL
 GATE
 ON OFF

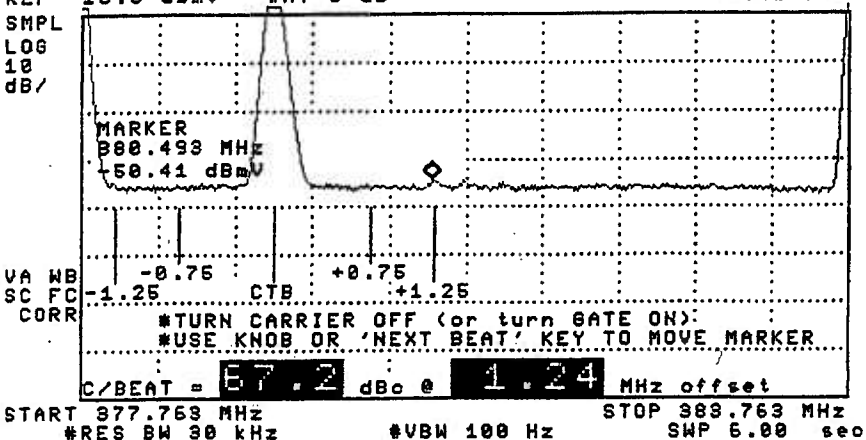
AVERAGE
 ON OFF

ZOOM &
 MEASURE

NEXT
 BEAT

More

MAIN
 MENU



10:58:55 JAN 15, 2003
 CHANNEL **53** (STD)
 REF -17.5 dBmV #AT 0 dB
 SMPL
 LOG
 10
 dB/

MKR 61.220 MHz
 -47.25 dBmV

CHNL
 GATE
 ON OFF

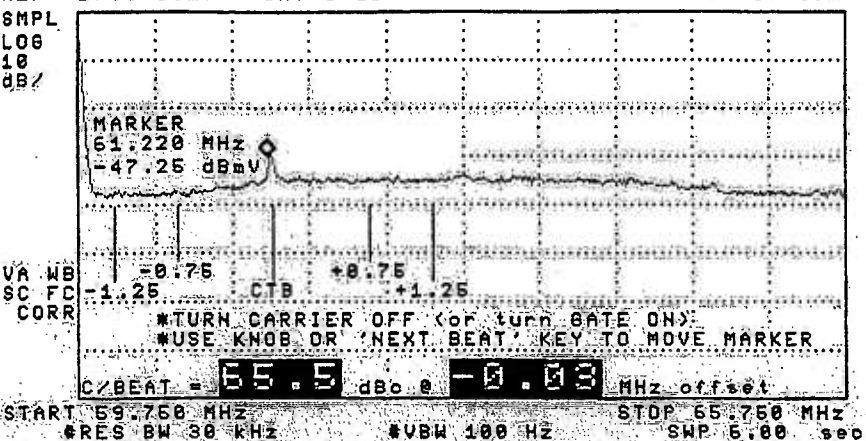
AVERAGE
 ON OFF

ZOOM &
 MEASURE

NEXT
 BEAT

More

MAIN
 MENU

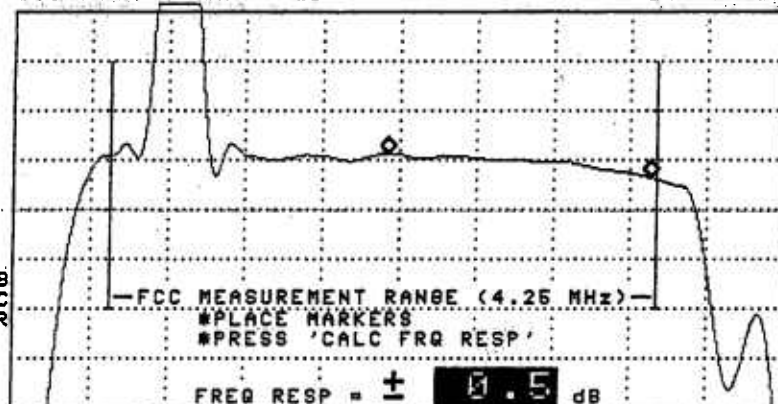


11:26:47 JAN 15, 2003
 CHANNEL **1** (STD)
 REF -8.0 dBmV #AT 0 dB

MKR 64.965 MHz **CHNL**
 -14.76 dBmV MARKER 1

PEAK
 LOG
 2
 dB/

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

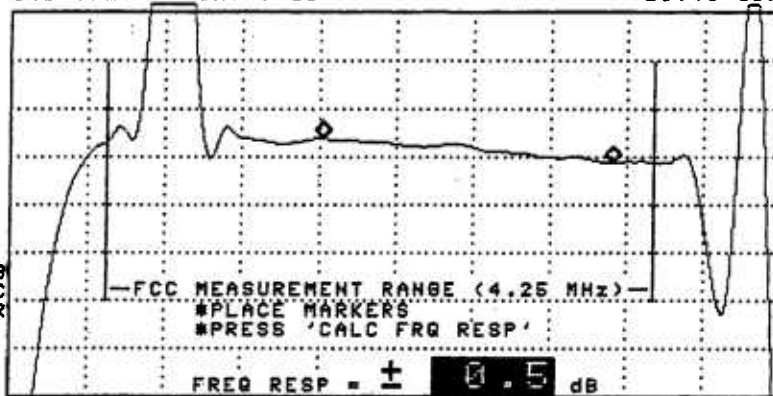
START 60.000 MHz STOP 66.000 MHz
 #RES BW 100 kHz #VBW 9 MHz SWP 20.0 msec

11:27:50 JAN 15, 2003
 CHANNEL **1** (STD)
 REF -9.2 dBmV #AT 0 dB

MKR 208.695 MHz **CHNL**
 -15.49 dBmV MARKER 1

PEAK
 LOG
 2
 dB/

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

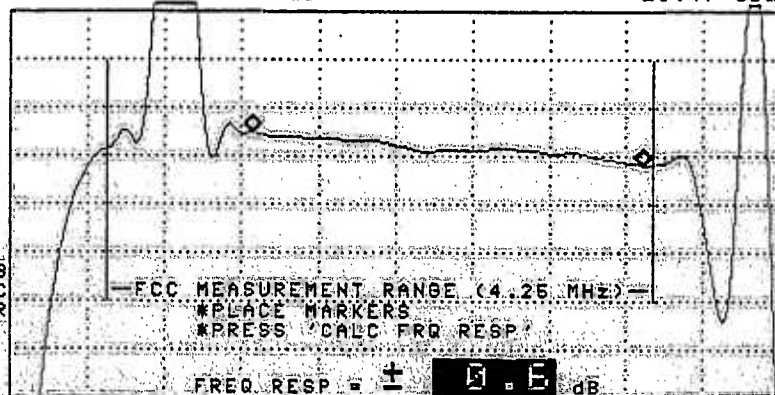
START 204.000 MHz STOP 210.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

11:29:00 JAN 15, 2003
 CHANNEL **1** (STD)
 REF -9.1 dBmV #AT 0 dB

MKR 130.935 MHz **CHNL**
 -15.47 dBmV MARKER 1

PEAK
 LOG
 2
 dB/

MA WB
 SC FC
 CORR



MARKER 2

RESTART
 MAX HOLD

CALC
 FRQ RESP

MAIN
 MENU

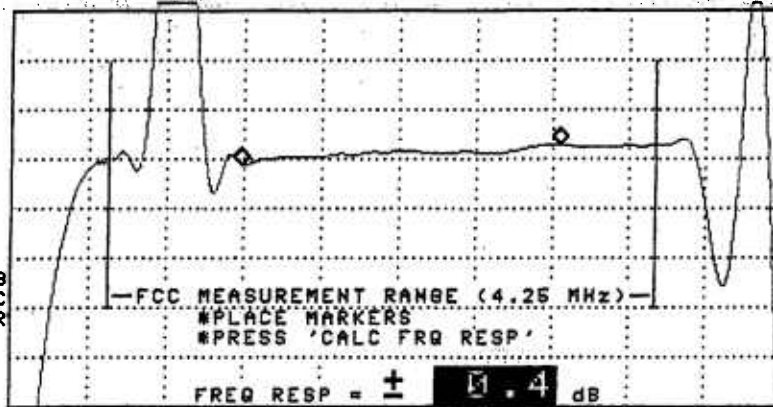
START 126.000 MHz STOP 132.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

11:30:15 JAN 15, 2003
CHANNEL 33 (STD)
REF -8.4 dBmV #AT 0 dB

MKR 235.785 MHz
-14.63 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FREQ RESP

MAIN
MENU

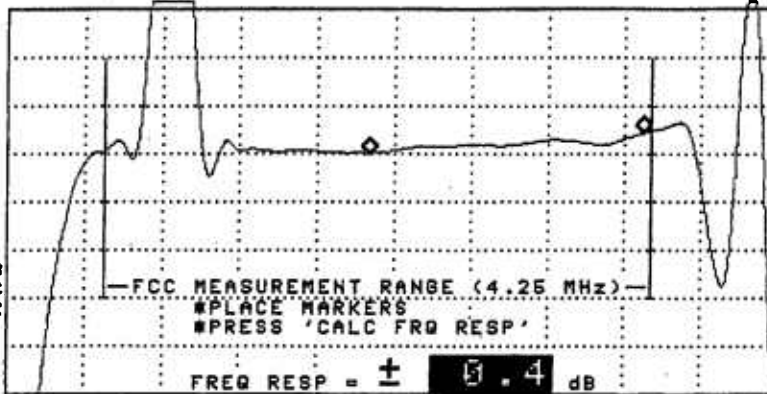
START 234.000 MHz STOP 240.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

11:32:37 JAN 15, 2003
CHANNEL 33 (STD)
REF -7.7 dBmV #AT 0 dB

MKR 284.805 MHz
-18.64 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FREQ RESP

MAIN
MENU

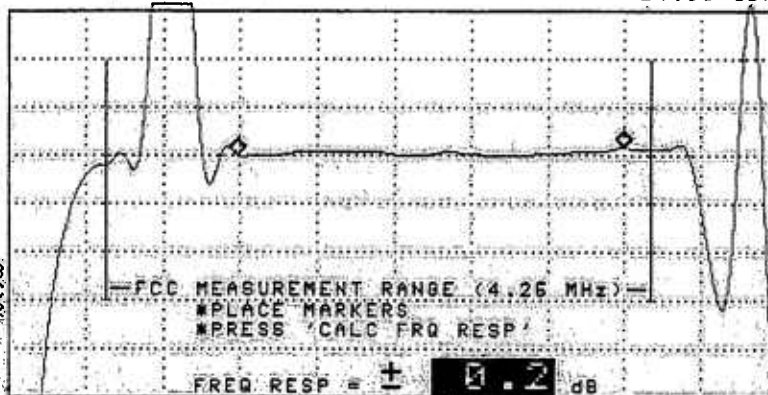
START 282.000 MHz STOP 288.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

11:33:59 JAN 15, 2003
CHANNEL 33 (STD)
REF -9.0 dBmV #AT 0 dB

MKR 325.785 MHz
-14.99 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FREQ RESP

MAIN
MENU

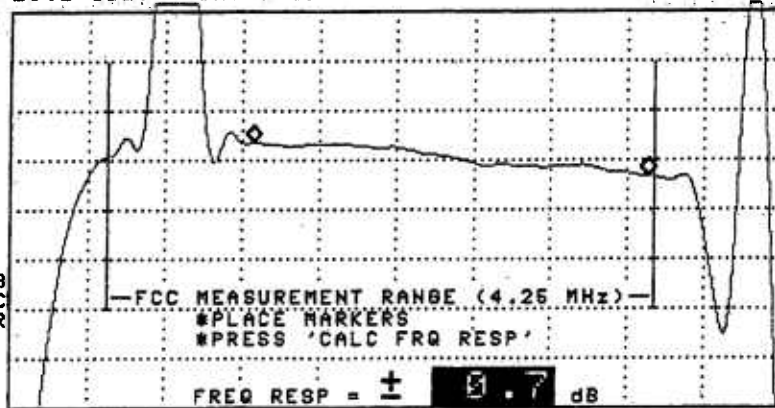
START 324.000 MHz STOP 330.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

11:35:12 JAN 15, 2003
CHANNEL 50 (STD)
REF -10.1 dBmV #AT 0 dB

MKR 382.965 MHz
-16.69 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

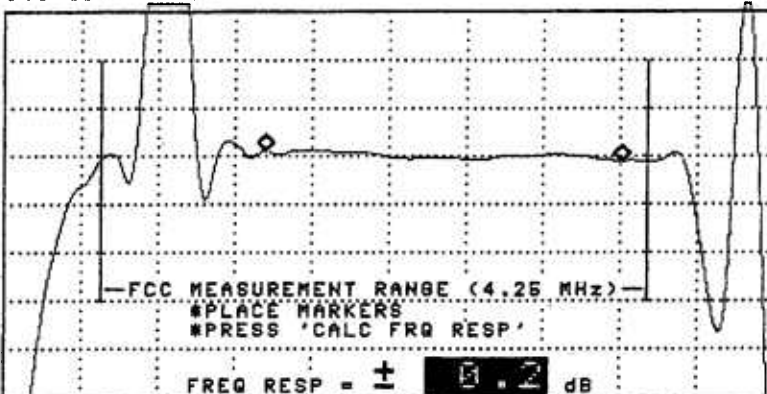
START 378.000 MHz
#RES BW 100 kHz #VBW 3 MHz STOP 384.000 MHz
SWP 20.0 msec

11:36:29 JAN 15, 2003
CHANNEL 50 (STD)
REF -8.0 dBmV #AT 0 dB

MKR 454.815 MHz
-14.21 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

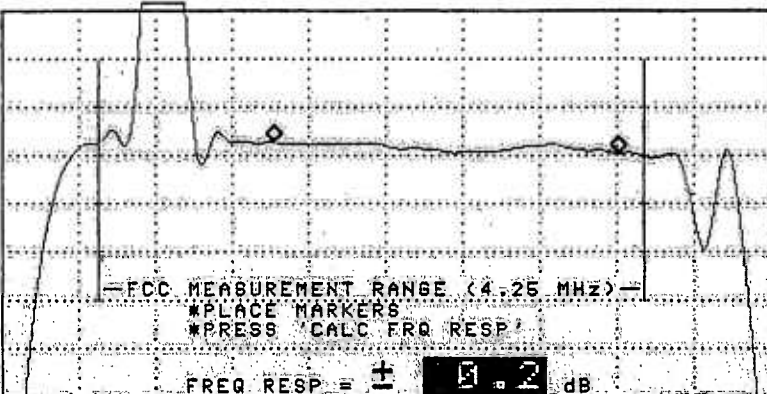
START 450.000 MHz
#RES BW 100 kHz #VBW 3 MHz STOP 456.000 MHz
SWP 20.0 msec

11:37:51 JAN 15, 2003
CHANNEL 50 (STD)
REF -10.9 dBmV #AT 0 dB

MKR 550.815 MHz
-16.78 dBmV MARKER 1

PEAK
LOG
2
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FRQ RESP

MAIN
MENU

START 546.000 MHz
#RES BW 100 kHz #VBW 3 MHz STOP 552.000 MHz
SWP 20.0 msec

TIME WARNER CABLE - - SYRACUSE DIVISION

Visual Carrier Level Variation Test

System Name:

Carthage / Watertown

Test Point Location:

RT 26 MARTINSBURG / BRANTINGHAM

Date:

01/16/03

Performed by:

DENIS RHUBART

Meter Serial Number:

213783

Chan	Freq (MHz)	Time				Max Var	Chan	Freq (MHz)	Time				Max Var
		22	18	11	15				22	18	11	15	
		13:00	19:00	1:00	7:00				13:00	19:00	1:00	7:00	
		Visual Level (dbmv)						Visual Level (dbmv)					
2	55.2500	7.8	8.1	8.1	8.3	0.5	DD(40)	319.2625	6.8	7.0	6.8	7.4	0.6
3	61.2500	9.5	9.8	9.8	10.1	0.6	EE(41)	325.2625	6.6	6.8	6.8	7.1	0.5
4	67.2500	8.6	9.6	9.0	9.5	1	FF(42)	331.2750	6.8	6.9	6.6	7.1	0.5
5	77.2500	7.3	7.9	7.6	7.8	0.6	GG(43)	337.2625	6.9	7.0	7.1	7.3	0.4
6	83.2500	6.9	7.2	7.1	7.4	0.5	HH(44)	343.2625	6.8	6.3	6.0	6.8	0.8
A-5(95)	91.2500						II(45)	349.2625	8.6	8.6	8.2	8.9	0.7
A-4(96)	97.2500	6.9	7.7	7.9	8.2	1.3	JJ(46)	355.2625	7.4	7.6	7.4	7.6	0.2
A-3(97)	103.2500						KK(47)	361.2625	8.1	7.9	7.8	8.4	0.6
A-2(98)	109.2750						LL(48)	367.2625	7.2	7.5	7.1	7.4	0.4
A-1(99)	115.2750	8.5	9.0	8.9	9.1	0.6	MM(49)	373.2625	6.6	6.8	6.5	7.2	0.7
A(14)	121.2625	8.4	8.4	9.0	9.1	0.7	NN(50)	379.2625	7.5	7.4	7.0	8.2	1.2
B(15)	127.2625	7.6	8.0	8.4	8.7	1.1	OO(51)	385.2625	6.9	7.4	6.9	7.8	0.9
C(16)	133.2625	7.1	7.9	8.1	8.3	1.2	PP(52)	391.2625	7.1	7.3	7.0	7.2	0.3
D(17)	139.2500	7.2	8.3	8.1	7.8	1.1	QQ(53)	397.2625	6.6	7.2	6.9	7.4	0.8
E(18)	145.2500	8.1	8.5	8.9	9.2	1.1	RR(54)	403.2500	6.7	7.0	6.9	7.2	0.5
F(19)	151.3210	9.7	10.1	10.2	10.9	1.2	SS(55)	409.2500	6.3	6.1	6.4	7.2	1.1
G(20)	157.2500	8.4	9.0	9.1	9.4	1	TT(56)	415.2500	6.9	7.3	7.0	7.5	0.6
H(21)	163.2500	7.9	8.9	8.9	9.4	1.5	UU(57)	421.2500	7.5	7.7	7.5	7.6	0.2
I(22)	169.2500	8.5	9.5	9.3	9.3	1	VV(58)	427.2500	6.7	6.8	6.7	7.3	0.6
7	175.2500	8.3	9.1	9.4	8.8	1.1	WW(59)	433.2500	7.4	7.7	7.4	7.9	0.5
8	181.2500	8.6	8.8	8.9	9.2	0.6	XX(60)	439.2500	7.6	7.8	7.7	7.9	0.3
9	187.2500	9.1	8.8	8.6	9.2	0.6	YY(61)	445.2500	8.6	9.2	8.7	9.1	0.6
10	193.2500	8.2	8.9	8.6	8.9	0.7	ZZ(62)	451.2500	8.3	8.3	8.4	8.8	0.5
11	199.2500	8.4	8.4	8.5	8.9	0.5	63	457.2500	8.1	8.4	8.1	8.6	0.5
12	205.2500	8.2	8.1	8.3	8.6	0.5	64	463.2500	8.5	8.0	8.2	9.1	1.1
13	211.2500	8.6	9.0	8.9	9.1	0.5	65	469.2500	8.1	8.5	8.3	8.7	0.6
J(23)	217.2500	7.9	8.0	8.1	7.9	0.2	66	475.2500	7.5	8.0	7.9	8.3	0.8
K(24)	223.2500	7.2	6.8	7.1	7.2	0.4	67	481.2500	7.1	7.6	7.0	7.4	0.6
L(25)	229.2625	7.1	7.0	6.7	6.9	0.4	68	487.2500	7.3	9.0	8.6	9.2	1.9
M(26)	235.2625	7.2	7.5	7.1	7.3	0.4	69	493.2500	7.0	7.7	7.4	8.0	1
N(27)	241.2625	7.4	6.8	7.4	7.8	1	70	499.2500	7.9	8.2	7.9	8.3	0.4
O(28)	247.2625	7.5	7.5	7.3	7.6	0.3	71	505.2500	7.8	8.4	8.4	8.7	0.9
P(29)	253.2625	8.1	7.6	7.1	6.5	1.6	72	511.2500	7.6	7.9	8.3	8.6	1
Q(30)	259.2625	7.4	7.2	7.2	7.5	0.3	73	517.2500	7.7	8.5	8.2	8.6	0.9
R(31)	265.2625	7.5	7.8	7.8	8.3	0.8	74	523.2500	7.8	8.4	8.4	8.5	0.7
S(32)	271.2625	8.7	8.5	8.6	8.7	0.2	75	529.2500	7.9	9.0	8.5	8.4	1.1
T(33)	277.2625	8.3	9.0	8.6	8.6	0.7	76	535.2500	7.8	7.9	8.0	8.4	0.6
U(34)	283.2625	8.3	8.5	8.2	8.7	0.5	77	541.2500	7.8	7.7	7.0	7.7	0.8
V(35)	289.2625	8.7	8.6	8.1	9.2	1.1	78	547.2500	7.7	7.4	7.4	7.4	0.3
W(36)	295.2625	7.6	8.2	8.3	8.1	0.7	79	553.0000					
AA(37)	301.2625	7.7	7.6	7.7	8.2	0.6	80	559.0000					
BB(38)	307.2625	7.1	7.2	6.7	7.2	0.5	81	565.0000					
CC(39)	313.2625	7.6	7.8	7.6	7.9	0.3							

Max NonAdjacent Channel Level Diff.

4.4

Max Adjacent Channel Level Diff.

2.3

Max Variance from last proof-of-performance test

1.90

Date of last proof-of-performance test

N/A

Note: Make measurements through a 100 ft. test drop cable without a converter

TIME WARNER CABLE

SYRACUSE DIVISION

FCC TECHNICAL TESTING STANDARDS AND PROCEDURES

7 - 15 - 2002
FCC Part 76 (2001)
Rev 2

VISUAL CARRIER FREQUENCY AND AURAL CARRIER CENTER FREQUENCY FCC 76.612 (a) (b) and 76.605 (a) (2)

Specification:

FCC: Visual carrier frequency part 76.612 (a) and (b). The center frequency of the aural carrier part 76.605 (a) (2).

Syracuse Division: ± 25 KHz on all non air-nav video carriers
 ± 3.5 KHz on air-nav visual carriers.
The center frequency of the aural carrier must be 4.5 MHz, ± 1 KHz above the frequency of the visual carrier.

Picture Effect:

Various impairments

Recommended Procedures:

- All measurements to be made at the headend test point.
- Connect equipment as shown in block diagram below.
- Use a spectrum analyzer with a precision frequency option.
- Follow the manufacturers recommended methods for performing this measurement.
- Record the visual carrier frequency and intercarrier frequency difference of all system channels.
- Visual carrier frequencies in the frequency bands 108.0-137.0 Mhz and 225.0-400.00 Mhz need to be properly offset as per FCC Rule 76.612.
- For non-air nav visual frequencies you should observe the ± 25 KHz tolerance.
- Lastly, follow sound engineering practices as outlined in the NCTA Recommended Practices for Measurements on Cable Television Systems.

Block Diagram:



VISUAL, AURAL CARRIER LEVELS AND 24 HR. VARIATION TESTS

(LEVEL REQUIREMENTS)

FCC 76.605 (a) (3), (4), (5)

Specification:

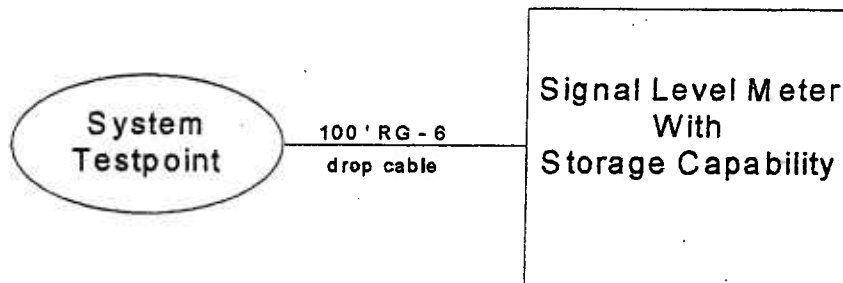
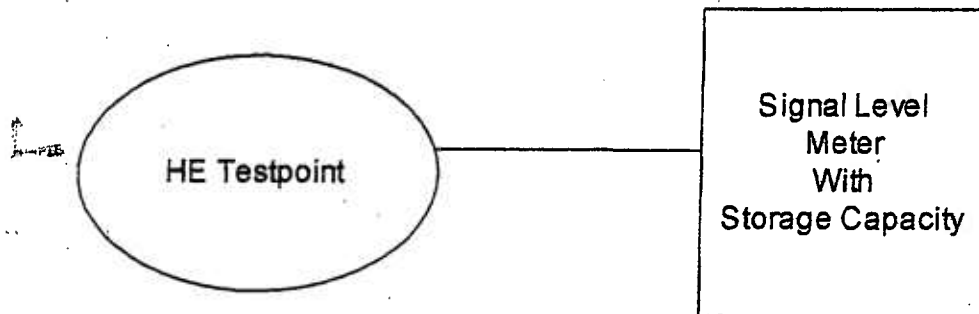
FCC: Levels and Variation Testing

- Visual carrier level shall be no less than 0 dbmv at subscriber terminal and no less than +3 dbmv at the end of a 100' drop. FCC 76.605 (a)(3)
- Variance of adjacent (6 Mhz) visual carriers shall not vary by more than 3 db FCC 76.605(a)(4)
- Variance of non-adjacent channels video carrier levels shall not vary by more than 10 db plus 1 db for every 100 Mhz above 300 Mhz. FCC 76.605(a)(4)
- The aural carrier amplitude shall be between 10 db and 17 db down from the visual carrier FCC 76.605 (a)(5)
- For 24 hr variation testing, the visual signal level of each channel must be measured and recorded, along with the date, time of measurement, and temperature, once every 6 hours (at intervals of not less than 5 hours or no more than 7 hours after the last measurement), which shall include the coldest and warmest months (January or February and in July or August) during a 24 hour period. Visual signal level for each channel shall not vary by more than 8 db within 24 hours or in any 6 month interval. FCC 76.605 (a)(4). The level must also meet the requirements of FCC 76.605 (a)(3)(4)(5).

Recommended Procedures:

- Prior to the start of testing the Headend levels should be checked and adjusted to obtain no more than 1 db max peak to valley with all non-scrambled aural carriers approximately 14 db down from video.
- Store the Headend levels in the same meter that will be used for your system test point testing, note the time from the meter and the bin number that this was stored in. This will be entered into the Headend test forms at a later time.
- If you use more than one meter for your 24 hour test, then you should verify its response against the response of the meter used for headend and test point testing.
- At each test point you should again store the recorded levels prior to the converter. The Syracuse Division has decided to test prior to the converter and insert an attachment stating the specifications of the converter.
- For the 24 hour testing you should have a watch to note the time (or use automated time function on signal level meter) and should use either a thermometer to record the temperature or obtain this from the weather channel as the temperature reading from the meter will only indicate the temperature of the meter.

Block Diagram:



IN-CHANNEL FREQUENCY RESPONSE

FCC 76.605 (a) (6)

Specification:

FCC and Syracuse Division: +/- 2 db from 750 Khz to 5 Mhz above the lower frequency boundary of the cable television channel.

Picture Effect:

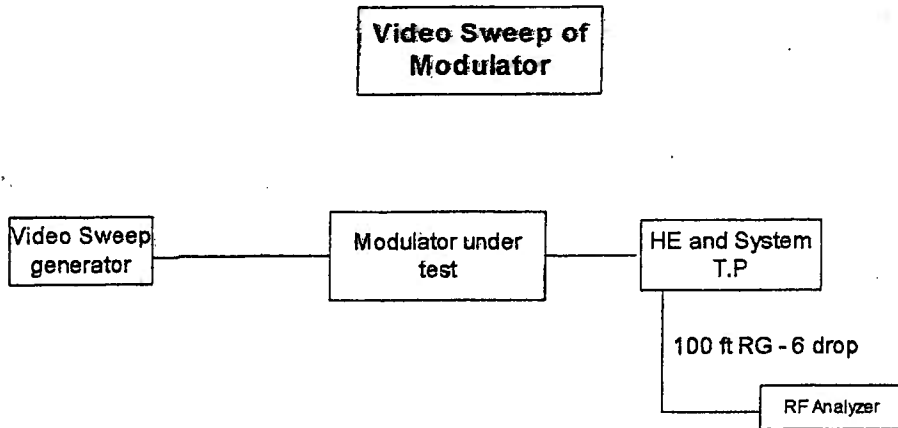
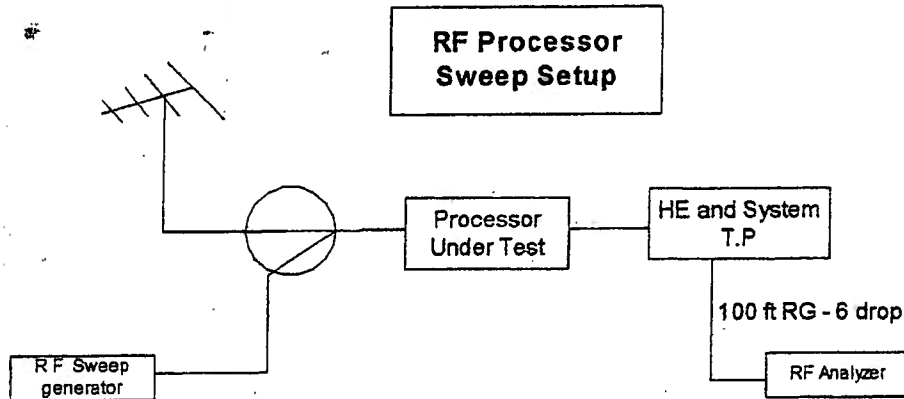
Variations can not only affect the relative amplitude of different frequency components of the visual signal, but relative visual carrier level and chroma delay. This could cause improper colors and poor picture quality.

Recommended Procedures:

- Measurements should be made on all FCC designated test channels at each system test point. The frequency response of all other channels should be verified periodically at the headend test point.
- Connect equipment as shown in the block diagrams .
- This procedure varies based on the type of analyzer used and the type of channel, ie; modulator or processor. The block diagrams show the two most common setups for making this measurement.
- Record the +/- db number [(peak to valley) / (2)] on page 3 of 5 for each testpoint.
- Lastly, follow sound engineering practices as outlined in the NCTA Recommended Practices for Measurements on Cable Television Systems.

Note :- The FCC Rules state that this test be done after a converter. The Syracuse Division does the field test without a converter but includes a "typical" frequency response trace of the converter used in the system. The system and converter traces will show system total response.

Block Diagrams:



CARRIER TO NOISE RATIO

(C/N)

FCC 76.605 (a) (7)

Specification:

FCC: Minimum of 43 db

Syracuse Division: Minimum of 47 db prior to converter

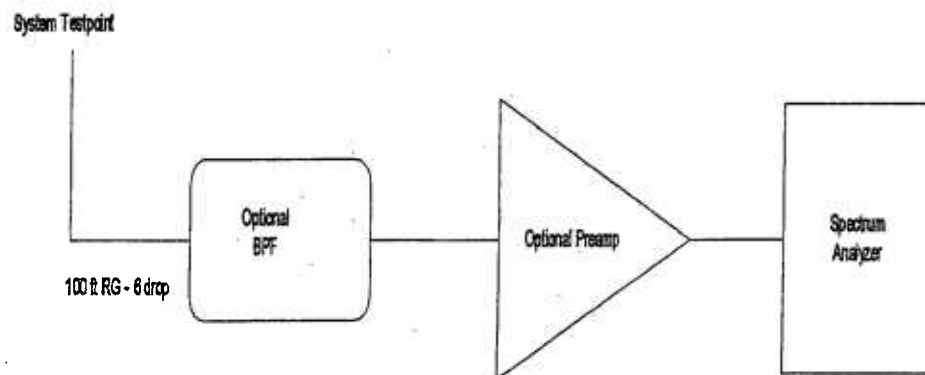
Picture Effect:

Noisy or snowy pictures. This can range from "imperceptible" at ratios above 47 db to "annoying" at levels less than 43 db.

Recommended Procedures:

- Measurements should be made on all of the test channels at each test point
- Connect equipment as shown in block diagram .
- Since most systems now have analyzers or signal level meters that automate this measurement, you should follow the manufacturers recommended method for this measurement. This would include such items as the proper RF input level required for measurement, the system noise floor higher than the analyzer noise floor, etc.
- Lastly, follow sound engineering practices as outlined in the NCTA Recommended Practices for Measurements on Cable Television Systems.

Block Diagrams:



COHERENT DISTURBANCES

(CTB, CSO, INTERMOD)

FCC 76.605 (a) (8)

Specification:

FCC: Ratio of visual signal level to coherent disturbances shall not be less than 51db

Syracuse Division: Minimum intermod, CSO and CTB is 55db

Picture Effect:

Interfering line patterns, horizontal line streaks, beats in the picture, etc.

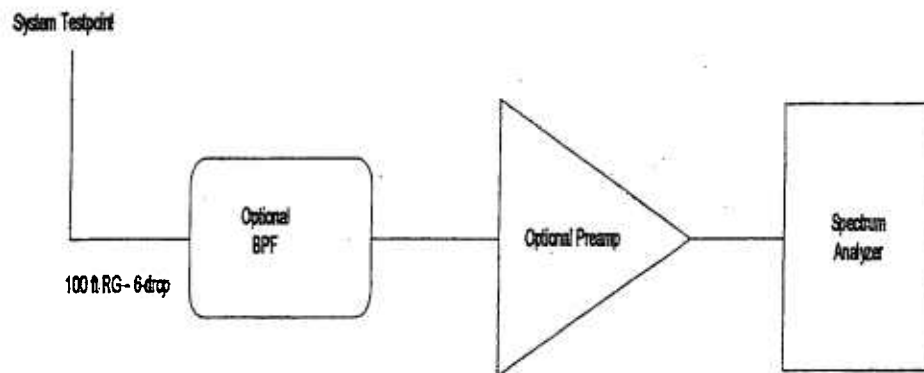
Recommended Procedures:

- Measurements should be made on all test channels at each test point
- Connect equipment as shown in block diagram.
- Since most systems now have analyzers that automate these measurements, you should follow the manufacturers recommended method for performing these measurements. This would include such items as the proper RF input level that is required for the measurement, insuring that you are not overloading the front end of the analyzer, etc.
- Lastly, follow sound engineering practices as outlined in the NCTA Recommended Practices for Measurements on Cable Television Systems.

Note:

- 1) Intermod products can fall anywhere within a 6 Mhz bandwidth
- 2) CSO falls at +/- .75 Mhz and +/- 1.25 Mhz, we only need to record the positive offset numbers. If this measurement is automated, then it will give you the worst case number. This is fine as long as it meets or exceeds spec.
- 3) CTB will fall at the visual carrier frequency. When picking test channels for the FCC proof, you should pick one channel that yields worst case CTB for your specific channel loading. Because you have to turn the video carrier off at the headend to make the CTB measurement, make sure you are not testing any AGC pilot frequencies.
- 4) If testing a channel that falls in an off-air spectrum insure that CTB measurement is not measuring direct pick-up.

Block Diagrams:



LOW FREQUENCY DISTURBANCES

(HUM MODULATION)

FCC 76.605 (a) (10)

Specification:

FCC: Less than 3%

Syracuse Division: Less than 1%

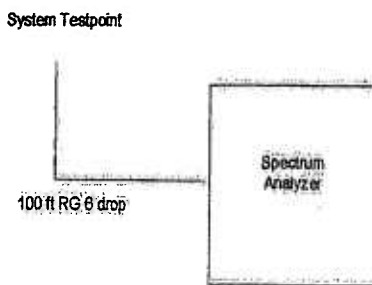
Picture Effect:

Horizontal bars or stripes slowly moving from the bottom of the screen to the top.

Recommended Procedures:

- Measurement must be made on at least one of the FCC designated test channels.
- Connect equipment as shown in block diagram below.
- Since all systems now have analyzers that automate this measurement, you should follow the manufacturers recommended method for this measurement. This would include such items as the proper RF input level required for measurement, and measurements made on a cw carrier etc.
- Lastly, follow sound engineering practices as outlined in the NCTA Recommended Practices for Measurements on Cable Television Systems.

Block Diagram:



Question 5(b): Applicant serves the following additional Municipalities from the same headend or from a different headend but in the same or adjacent county:

<u>Municipality</u>	<u>Subscribers</u>	<u>Municipality</u>	<u>Subscribers</u>
Village of E. Carthage	1,223	Town of Antwerp	5
Town of LeRay	32	Town of Philadelphia	60
Town of Theresa	40	Village of Antwerp	210
Village of Evans Mills	237	Village of Philadelphia	443
Village of Theresa	246	Fort Drum	2,843
Town of Champion	412	Town of Croghan	209
Town of Denmark	219	Town of New Bremen	269
Town of Wilna	456	Village of Castorland	96
Village of Copenhagen	255	Village of Croghan	300
Village of Deferiet	101	Village of Herrings	27
Village of W. Carthage	694	Town of Brownville	207
Town of Cape Vincent	664	Town of Clayton	1,030
Town of Hounsfield	156	Town of Lyme	111
Town of Orleans	557	Village of Cape Vincent	347
Village of Chaumont	223	Village of Clayton	619
Village of Dexter	349	Village of Sackets Harbor	572
Town of Bangor	337	Town of Bombay	201
Town of Burke	119	Town of Chateaugay	52
Town of Constable	274	Town of Fort Covington	339
Town of Malone	815	Town of Moira	399
Town of Westville	329	Village of Brushton	313
Village of Burke	83	Village of Chateaugay	340
Village of Malone	2,334	Town of Potsdam	1,097
Town of Canton	896	Town of Colton	495
Town of Dekalb	148	Town of Hermon	6
Town of Hopkinton	180	Town of Madrid	253
Town of Parishville	514	Town of Pierrepont	521
Town of Russell	120	Village of Canton	1,320
Village of Hermon	129	Village of Norwood	608
Village of Potsdam	1,849	Town of Fowler	341
Town of Gouverneur	426	Village of Gouverneur	1,405
Village of Richville	122	Town of Brasher	454
Town of Lawrence	223	Town of Louisville	1,033
Town of Massena	834	Town of Norfolk	500
Town of Stockholm	295	Town of Waddington	21
Village of Massena	4,415	City of Ogdensburg	3,873
Town of Lisbon	480	Town of Morristown	244
Town of Oswegatchie	561	Village of Heuvelton	295
Village of Morristown	163	Village of Rennselaer Falls	140
Village of Waddington	391	Town of Altona	241
Town of Champlain	416	Town of Chazy	790
Town of Ellenburg	390	Town of Mooers	205
Village of Champlain	416	Village of Mooers	205
Village of Rouses Point	852	Town of Martinsburg	192
Town of Henderson	157	Town of New Bremen	9
Town of Watson	310	Town of Grieg	315

Exhibit 2

Question 10: The number of miles of new cable television plant placed in operation by applicant during the past twelve (12) months in the municipalities specified in Question 5(b) are:

<u>Municipality</u>	<u>Miles of Plant</u>	<u>Municipality</u>	<u>Miles of Plant</u>
Town of Champion	0.16 Miles	Town of Hounsfield	0.16 Miles
Town of Champlain	0.1 Miles	Town of Chazy	0.3 Miles
Town of Ellenburg	0.1 Miles	Town of Mooers	0.1 Miles
Village of Rouses Point	0.1 Miles	Town of Bombay	0.1 Miles
Town of Constable	0.2 Miles	Town of Malone	0.2 Miles
Town of Westville	0.1 Miles	Village of Burke	0.2 Miles
City of Ogdensburg	0.3 Miles	Town of Lisbon	2.3 Miles
Town of Morristown	15.5 Miles	Town of Oswegatchie	6.5 Miles
Village of Heuvelton	0.1 Miles	Village of Morristown	0.1 Miles
V. of Rennselaer Falls	0.7 Miles	Town of Canton	0.6 Miles
Town of Parishville	0.2 Miles	Village of Norwood	0.7 Miles