



2009 MAR 27 AM 11:00

March 25, 2009

Ms. Jaclyn A. Brilling Secretary State of New York Department of Public Service Three Empire State Plaza Albany, NY 12223-1350

Dear Secretary Brilling:

Charter Communications is hereby submitting Franchise Renewal Agreements for the Commission's review and approval for the following ten municipalities in Clinton County: the towns of Ausable, Beekmantown, Chesterfield, Dannemora, Peru, Plattsburgh, Saranac and Schuyler Falls, the village of Keeseville and the City of Plattsburgh.

I have enclosed an original and three copies of the fully executed Renewal Agreements and the Form R-2 (Application for Renewal of Franchise or Certificate of Confirmation) for each municipality, as well as the resolutions approved by each of the municipal Boards or Councils. I have also enclosed one copy of Charter's most recent FCC Proof of Performance test results for the system that serves all ten of these municipalities and the required verification of public notice for the public hearings and verification of public notice of our filing these applications with the PSC.

If you have any questions or concerns, I can be reached at 508-853-1515 x72857 or via email at Tom.Cohan@chartercom.com.

Sincerely,

ling PColing

Thomas P. Cohan Director of Government Relations

State of New York Division of Public Service Cable Service Regulations

, . . .

# FORM R-2

#### APPLICATION FOR RENEWAL OF FRANCHISE OR CERTIFICATE OF CONFIRMATION

- 1. The exact legal name of applicant is: Falcon First Cable of New York, Inc.
- 2. Applicant does business under the following trade name or names: Charter Communications
- 3. Applicant's mailing address is: 11 Commerce Rd. Newtown CT. 06470
- 4. Applicant's telephone number(s) is (are): (508) 853-1515
- 5. (a) This application is for a renewal of operating rights in the

Town of Plattsburgh (Clinton County)

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

Town(s) of: Ausable, Beekmantown, Black Brook, Chesterfield, Dannemora, Elizabethtown, Jay, Lewis, Peru, Saranac, Schuyler Falls, Westport and Wilmington.

Village(s) of: Dannemora, Keeseville and Westport.

City(s) of: Plattsburgh

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

Primary residential connections: 3,128 Basic Secondary residential connections: 2,813 Expanded Basic Residential pay-cable subscriptions: 2,304 Commercial connections: 66 Other:

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 line-up card.

8. Does Applicant 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 does provide three PEG channels, which are programmed as follows: Public Access channel programmed with video for approximately 14 hours per day, seven days a week; Educational Access channel is programmed with video approximately 30 hours per week during the Plattsburgh State University school year and is programmed with a bulletin board at all other hours of the day; the Government Channel is programmed with video eight hours per day, five days a week, with a bulletin board at other hours of the day. There is a full range of programming from government meetings and community events to educational programs and a variety of programs produced by local volunteers.

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

Primary connections: \$19.99 (Basic) Secondary connections: \$41.00 (Expanded Basic) Pay-cable subscriptions: HBO/CINEMAX \$14.00 SHOW/TMC \$14.00 Commercial connections: Other:

- 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)? None
- 11. State and describe below any significant achievements and/or improvements that took place with respect to system operation during the past twelve months:

This is already a state-of-the-art 860 MHz system; we continually enhance our services with the addition of new HD channels.

- 12. Indicate whether applicant has previously filed with the State Commission on Cable Television its:
  - (a) Current Statement of Assessment pursuant to Section 817 of the Executive Law? Yes \_x\_No \_\_\_\_
  - (b) Current Annual Financial Report? Yes \_x\_ No \_\_\_\_

If answer to any of above is negative, explain:

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: N/A

Signatu Title

Please attach a copy of applicant's current annual performance test results per 9 NYCRR § 596.5.

STATE OF CONNECTICUT ) ) COUNTY OF NEW HAVEN ) ss.:

**Verification** being first duly sworn, deposes and says: .0 1. Iam of vite, Gnunica and I am familiar with the business operations of said 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.

Signature

Sworn to before me this

<u>\_\_\_\_,</u> 2009. day of

[Notary Public

Sandra A. Hurd NOTARY PUBLIC State of Connecticut My Commission Expires 1/31/2012

## TOWN OF PLATTSBURGH TOWN BOARD SEMI-MONTHLY MEETING January 20, 2009

#### Resolution No. 09-57

#### **Charter Communications Contract Renewal**

YES

X

X

X

Х

X

WHEREAS, the Clinton County Cable Television Council ("TV Council" herein), of which the Town of Plattsburgh is a member has negotiated with Falcon First Cable of New York, Inc. d.b.a. Charter Communications the renewal of the TV Council municipal members' collective franchise Agreements between the municipalities and Charter; and

WHEREAS, the Town of Plattsburgh Town Board has reviewed the negotiated Agreement and the Town Attorney has approved the renewal Agreement as to form; now, therefore it is

**RESOLVED**, that the Town of Plattsburgh Town Board approves the franchise renewal between the Town of Plattsburgh and Charter Communications and authorizes the Supervisor to execute same for the Town; and be it further

**RESOLVED**, that final approval and execution of said franchise Agreement is subject to the approval of the NYS Public Service Commission.

Motion: Sheila A. Brockway

Seconded by: Martin D. Mannix

**Discussion:** 

Jury Wywell

NO

Roll Call:

Thomas E. Wood Sheila A. Brockway Gerard A. Renadette Martin D. Mannix Bernard C. Bassett

**Carried:** 

State of New York Clinton County, ss.:

#### CITY OF PLATTS-COMMON COU 41 CITY HALL PLACE PLATTSBURGH NY 12901

Legal Advertising



Laura Crouse of the City of Plattsburgh, in said county, being duly sworn, doth depose and say that she is the clerk of The Plattsburgh Publishing Co., publishers and printers of the newspaper entitled The Press Republican, printed and published daily and Sunday in the City of Plattsburgh, in said county, and that the advertisements covered on the attached copy have appeared in said newspaper on the dates indicated.

Not

JOSIE A. TRIPP Notary Public State of New York No. 01TR5179927 Qualified in Clinton County Commission Expires January 7,

PUBLICATION PRESS REPUBLICAN EXPIRE DATEAD CAPTION# TIMESAMOUNT11/25/2008PLEASE TAKE NOTICE THAT I129.10

START DATE: 11/25/2008

END DATE: 11/25/2008

State of New York, Clinton County, ss.:

**DAVIS ADVERTISING-**CHARTER COMMUNICATIONS

Legal Advertising

Ad Ran: 03/13/09

#### Legal Notice

Charter Communications has filed with the New York Public Service Commission for a five year renewal of the Cable Television Franchise Agreements to operate and maintain cable television systems serving the towns of Au Sable, Beekmantown, Chesterfield, Dannemora, Peru, Plattsburgh, Saranac and Schuyler Falls, the Village of Keeseville and the City of Plattsburgh. As in the past, these franchise agreements include the procedures adopted for obtaining a franchise and the execution of the agreements to ensure compliance with all Rules and Regulations of the New York State Public Service Commission for Cable Television entities. Each of the Franchise Agreements is available for review at the respective town halls, Plattsburgh City Hall and the Village Hall in Keeseville. *Laura Crouse* of the City of Plattsburgh, in said county, being duly sworn, doth depose and say that she is a clerk of The PLATTSBURGH PUBLISHING CO., publishers and printers of a newspaper entitled The Press-Republican, printed and published daily and Sunday in the City of Plattsburgh, in said county, and that the advertisements covered on the attached copy have appeared in said newspaper on the dates indicated.

Tuesa

Subscribed and sworn to before me, this 17th day of March 2009

Notary Public

JOSIE A. TRIPP Notary Public State of New York No. 01TR6179927 Qualified in Clinton County Commission Expires January 7, \_\_\_\_\_

## A FRANCHISE RENEWAL AGREEMENT

### Between

The Town of Plattsburgh, County of Clinton, State of New York and

**Charter Communications** 

### **INDEX TO FRANCHISE**

Section	<u>Title</u>	Page
1.0	<b>DEFINITION OF TERMS</b>	7

### PART I -- THE FRANCHISE

GRANT OF FRANCHISE	9
NON-EXCLUSIVE NATURE OF THIS FRANCHISE	9
TERRITORIAL LIMITS	9
FRANCHISE SUBJECT TO LAW AND REGULATION	10
CONDITIONS ON USE OF STREETS AND PUBLIC	10
GROUNDS	
ASSIGNMENT OR TRANSFER OF FRANCHISE	12
DEFAULT, REVOCATION, TERMINATION,	
ABANDONMENT	12
SEVERABILITY	15
EFFECTIVE DATE AND TERM	15
	NON-EXCLUSIVE NATURE OF THIS FRANCHISE TERRITORIAL LIMITS FRANCHISE SUBJECT TO LAW AND REGULATION CONDITIONS ON USE OF STREETS AND PUBLIC GROUNDS ASSIGNMENT OR TRANSFER OF FRANCHISE DEFAULT, REVOCATION, TERMINATION, ABANDONMENT SEVERABILITY

## PART II -- THE SYSTEM

11.0	SYSTEM SPECIFICATIONS	16
12.0	SYSTEM PERFORMANCE STANDARDS	17
13.0	SYSTEM MAINTENANCE AND REPAIR	17

### PART III - THE SERVICE

14.0	GENERAL SERVICE OBLIGATION	19
15.0	MUNICIPA L AND SCHOOL SERVICE	19

# 16.0 PUBLIC, EDUCATIONAL, AND GOVERNMENTAL ACCESS 19

#### PART IV -- FRANCHISEE'S OBLIGATIONS TO THE MUNICIPALITY

17.0	FRANCHISE FEE	21
18.0	INDEMNITY AND INSURANCE	21
19.0	RATES AND CHARGES	22
20.0	EMPLOYMENT PRACTICES	23
21.0	MUNICIPALITY'S RIGHT TO EQUAL BENEFITS AND	)
	SERVICES	23
22.0	MUNICIPALITY'S RIGHT TO INQUIRE ABOUT AND INSPECT SYSTEM	23
23.0	MUNICIPALITY'S RIGHT TO INSPECT FRANCHISEE BOOKS AND RECORDS	'S 24
24.0	REPORTS TO BE FILED BY FRANCHISEE WITH THE	
	MUNICIPALITY	24
25.0	MANDATORY RECORDKEEPING	25
26.0	EMERGENCY USE	25

## PART V -- FRANCHISEE'S OBLIGATIONS TO SUBSCRIBERS AND CUSTOMER SERVICE REQUIREMENTS

27.0	COMPLIANCE WITH FEDERAL AND STATE LAW A	ND
	REGULATION	26
28.0	EMPLOYEE IDENTIFICATION/TRAINING	26
29.0	REQUIREMENT FOR ADEQUATE PHONE SYSTEM	26
30.0	MISCELLANEOUS PROVISIONS	26

## PART VI -- GUARANTEE OF FRANCHISEE'S PERFORMANCE

31.0	PERIODIC PERFORMANCE EVALUATION SESSIONS	27
------	--	----

32.0	GUARANTEE OF PERFORMANCE	27
33.0	SECURITY FUND	28
34.0	PENALTIES FOR MATERIAL BREACHES	29
35.0	EFFECT OF MUNICIPALITY'S FAILURE TO ENFORCE FRANCHIS PROVISIONS	E 30
36.0	NOTICES	30

A FRANCHISE RENEWAL AGREEMENT Between The Town of Plattsburgh, County of Clinton, State of New York and Charter Communications

#### FRANCHISE AGREEMENT

This Franchise Agreement is between the **Town of Plattsburgh**, New York, hereinafter referred to as the "Grantor, Franchise Authority or Municipality" and Falcon First Cable of New York, Inc., locally known as **Charter Communications**, hereinafter referred to as the "Grantee or Franchisee."

WHEREAS, the Grantor finds that the Grantee has substantially complied with the material terms of the current Franchise under applicable laws, and that the financial, legal and technical ability of the Grantee is sufficient to provide services, facilities and equipment necessary to meet the future cable-related needs of the community, and

WHEREAS, having afforded the public adequate notice and opportunity for comment, Grantor desires to enter into this Franchise with the Grantee for the construction and operation of a cable system on the terms set forth herein; and

*WHEREAS, the Grantor and Grantee have complied with all federal and Statemandated procedural and substantive requirements pertinent to this franchise renewal;* 

*WHERAS*, the Board, in granting this franchise renewal, embodied in the agreement the results of its review and negotiations with Charter Communications and has determined that said franchise agreement and Charter Communications respectively, fulfills and will fulfill the needs of Falcon First Cable of New York, Inc. 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 forgoing clauses, which clauses are hereby made a part of this franchise agreement, and the mutual convenants and agreements herein contained, the Franchise Authority and Grantee agree as follows:

### 1.0 DEFINITION OF TERMS

X 1.1 "Area Outage": a total or partial loss of video, audio, data or other signals carried on the cable television system in a location affecting two or more subscribers.

X 1.2 "**Cable Communications System**" (also herein referenced as "cable system" and "system"): the facility, which is the subject of this franchise, consisting of antennae, wire, coaxial cable, amplifiers, towers, microwave links, wave guide, optical fibers, optical transmitters and receivers, satellite receive/transmit antennae, and/or other equipment designed and constructed for the purpose of producing, receiving, amplifying, storing, processing, or distributing audio, video, digital or other forms of electronic, electromechanical, optical, or electrical signals to multiple subscribers within the Municipality.

X 1.3 "**Cable Service**": the transmission to subscribers of (a) video programming (meaning programming provided by, or comparable to programming provided by, a television broadcast station); and (b) other programming (meaning information that a cable operator makes available to all subscribers generally), including subscriber interaction utilizing the addressable capacity and capability of the cable system.

X 1.4 "**Capability**": the ability of the Franchisee to activate a described technological or service aspect of the cable communications system without delay.

X 1.5 "Clinton County Cable Television Council": The <u>Clinton County Cable</u> <u>Television Council</u> was formed by inter-municipal agreement in August of 1994 for the purposes of facilitating negotiations and decisions regarding the franchise agreements between the existing Franchisee and the participating municipalities, the negotiation of a master franchise agreement, and to assist in the negotiation of riders to such agreement as are necessary to address the specific needs of the individual municipalities; i.e., the City of Plattsburgh; the Towns of Ausable, Beekmantown, Chesterfield, Dannemora, Peru, Plattsburgh, Saranac, and Schuyler Falls; and the Village of Keeseville.

X 1.6 "FCC": the Federal Communications Commission.

X 1.7 "**Franchise Fee**": the percentage, as specified in this franchise, of Charter Communications' "**Gross Revenue**" remitted by Charter to the Municipality in exchange for the rights granted pursuant to the franchise.

X 1.8 "Franchisee": Charter Communications, and its lawful successors and assignees.

X 1.9 "**Gross Revenue**": any revenue received by the Grantee from the operation of the Cable System to provide Cable Services in the Service Area, provided, however that such phrase shall not include: (1) any taxes, fees or assessments of general applicability collected by the Grantee from subscribers for pass-through to a government agency, including the FCC user fee; (2) unrecovered bad debt; (3) credits, refunds and deposits paid to subscribers; (4) any exclusions available under applicable law.

X 1.10 "Material provision": a clause within this franchise, as further described herein, deemed critical to the balance of the overall agreement between the Municipality and the

Franchisee embodied in this franchise, wherein violation of said clause by the Franchisee, without redress, or the effective elimination of said clause from this franchise by an act of Congress or judicial decision may result or require, with the approval of the PSC, in the revocation or renegotiation of this franchise, in whole or in part.

X 1.11 "**Non-material provisions**": all clauses not deemed to constitute a "material provision", as defined and described herein, but constituting obligations upon the Franchisee, nonetheless.

X 1.12 "**PSC**": the New York State Public Service Commission or any successor State agency with similar responsibilities.

#### PART I -- THE FRANCHISE

#### 2.0 GRANT OF FRANCHISE

X 2.1 The Franchisee is hereby granted, subject to the terms and conditions of the franchise, the right, privilege, and authority to operate and maintain a cable communications system within the streets, alleys, and public ways of the Municipality.

X 2.2 The Franchisee may erect, install, extend, repair, replace, and retain in, on, over, under, or upon, across and along the public streets, alleys, and ways within the Municipality, such wires, cables, conductors, ducts, conduits, vaults, manholes, amplifiers, appliances, pedestals, attachments, and other property and equipment as are necessary and appurtenant to the operation of the cable communications system in conformance with the Municipality's specifications.

X 2.3 Nothing in this franchise shall be deemed to waive the requirements of the various codes and ordinances of the Municipality regarding permits, fees to be paid, or manner of construction.

X 2.4 No privilege nor power of domain shall be deemed to be bestowed by this franchise other than that conferred pursuant to statutory law.

### 3.0 NON-EXCLUSIVE NATURE OF THIS FRANCHISE

X 3.1 This franchise shall not be construed as any limitation upon the right of the Municipality to grant to other persons rights, privileges, or authorities similar to the rights, privileges, and authorities herein set forth, in the same or other streets, alleys, or other public ways or public places. The Municipality specifically reserves the right to grant at any time such additional franchises for this purpose as it deems appropriate.

X 3.2 In accordance with PSC Rule 895.3, the renewal of this franchise shall not contain economic or regulatory burdens which, when taken as a whole, are greater or lesser than those burdens placed upon any other cable television franchise operating within the municipal territorial limits relating to this franchise.

## 4.0 TERRITORIAL LIMITS

X 4.1 The rights and privileges awarded pursuant to this franchise shall relate to and cover the entire present territorial limits of the Municipality and any area annexed thereto during the term of this franchise.

### 5.0 FRANCHISE SUBJECT TO LAW AND REGULATION

X 5.1 All terms and conditions of this franchise are subject to Federal and State law and to the rules and regulations of the FCC and the PSC.

X 5.2 All terms and conditions of this franchise are subject to the approval of the PSC.

X 5.3 All rights and privileges granted hereby are subject to the police power of the Municipality to adopt and enforce generally applicable local laws, ordinances, rules and regulations necessary to the health, safety and general welfare of the public; provided, however, that such regulations are reasonable and not materially in conflict with the privileges granted in this franchise. This Franchise is a contract and except as to those changes which are the result of the Grantor's lawful exercise of its general police power, any amendment of this Franchise must be done in accordance with PSC Rule 892.1.

X 5.4 Within sixty (60) days of the effective date of this franchise, the Franchisee shall file a request for certification of this franchise with the PSC and FCC, and shall provide the Municipality with evidence of such filing.

X 5.5 The Clerk, or other person as designated by the Municipality, will be responsible for the continuing administration of the rights and interests of the Municipality in the franchise and such person will be the addressee for all communications of the Franchisee with the Municipality unless the Franchisee is otherwise directed.

### 6.0 CONDITIONS ON USE OF STREETS AND PUBLIC GROUNDS

X 6.1 Any work which requires the disturbance of any Street or which will interfere with traffic shall not be undertaken without prior notification to and approval of the Municipality.

X 6.2 No poles, underground conduits or other wire-holding structures shall be erected by the Franchisee without the approval of the appropriate municipal official through established permit procedures to the extent that same now or hereafter may exist, with regard to the location, height, type and any other pertinent aspect of such wire-holding facilities; however, such approval may not be unreasonably withheld.

X 6.3 All structures, lines and equipment erected by the Franchisee within the Municipality shall be so located as to cause minimum interference with the proper use of streets, alleys, easements and other public ways and places, and to cause minimum interference with rights or reasonable convenience of property owners who adjoin any of the said streets, alleys or other public ways and places. Existing poles, posts and other structures of the electric power company or any telephone company or any other public utility which may be available to the Franchisee shall be used to the extent practicable in order to minimize interference with travel. Where both power and telephone utilities are placed underground, the Franchisee's cable also shall be placed underground.

X 6.4 The Franchisee shall have the right and authority to remove, trim, cut, and keep clear trees and bushes upon and overhanging all streets, alleys, easements, sidewalks, and public places in the Municipality to the minimum extent necessary to keep same clear of poles, wires, cables, conduits and fixtures. Five (5) business days prior to commencing any tree trimming, the Franchisee will inform in writing affected property owners and the municipal official responsible for monitoring the Franchisee's construction activities.

X 6.5 In the case of any disturbance of pavement, sidewalk, driveway or other surfacing, the Franchisee shall, at its own cost and expense in the manner provided and approved by the municipal official responsible for monitoring the Franchisee's construction activities, and within 30 days, replace and restore such pavement, sidewalk, driveway or surfacing so disturbed to as good a condition as existed before said work was commenced. In the event that any municipal property is damaged or destroyed by the Franchisee, such property shall be repaired or replaced by the Franchisee within thirty (30) days and restored to as good a condition as existed before said work was commenced.

X 6.6 All structures and all lines, equipment and connections, in, over, under and upon streets, sidewalks, alleys and public ways and places of the Municipality, wherever situated or located, shall at all times be kept and maintained in a safe, suitable, and substantial condition, and in good order and repair.

X 6.7 In exercising rights pursuant hereto, the Franchisee shall not endanger or interfere with the lives of persons, nor interfere with any installations of the Municipality, any public utility serving the Municipality or any other person permitted to use the streets and public grounds, nor unnecessarily hinder or obstruct the free use of the streets and public grounds. The grant of this franchise does not establish priority for use over other present or future permit or franchise holders or the Municipality's own use of the streets and public grounds. The Municipality shall at all times control the distribution of space in, over, under or across all streets and public grounds that are occupied by the cable communications system. All rights granted for the construction and operation of the cable communications system shall be subject to the continuing right of the Municipality to require such reconstruction, relocation, change or discontinuance of the facilities and equipment used by the Franchisee in the streets, alleys, avenues, and highways of the Municipality, as shall in the opinion of the Municipality be necessary in the public interest.

X 6.8 Nothing in this franchise shall hinder the right of the Municipality or any governmental authority to perform or carry on, directly or indirectly, any public works or public improvements of any description. Should the cable communications system in any way interfere with the construction, maintenance, or repair of such public works or public improvements, the Franchisee shall, at its own cost and expense, protect or relocate its cable communications system, or part thereof, as reasonably directed by the Municipality.

X 6.9 Upon request of a person holding a building or moving permit issued by the Municipality, the Franchisee shall 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 the Franchisee by the person requesting same. In such cases,

the Franchisee shall be given not less than ten (10) working days prior written notice in order to arrange for the changes required.

#### 7.0 ASSIGNMENT OR TRANSFER OF FRANCHISE

X 7.1 In accordance with PSC Rule 895.1(s), no change in control of the Franchisee, the system, or the franchise granted herein shall occur without the prior written consent of the Municipality and prior approval of the PSC. The Franchise granted hereunder shall not be assigned, other than to an entity controlling, controlled by, or under common control with the Grantee, without the prior consent of the Grantor, such consent not to be unreasonably withheld or delayed. No such consent shall be required, however, for a transfer in trust, by mortgage, by other hypothecation, or by assignment of any rights, title, or interest of the Grantee in the Franchise or Cable System to secure indebtedness. Within sixty (60) days of receiving a request for transfer, the Grantor shall notify the Grantee in writing of any additional information it reasonably requires to determine the legal, financial and technical qualifications of the transferee. If the Grantor has not taken action on the Grantee's request for transfer within one hundred twenty (120) days after receiving such request, consent by the Grantor shall be deemed given.

X 7.2 At least sixty (60) days before a proposed change of control is scheduled to become effective, the Franchisee shall petition in writing for the Municipality's written consent of such proposal.

X 7.3 In determining whether to approve said petition, the Municipality shall consider those conditions detailed in PSC Rule 895.1(s)(2), the applicant's:

- a) Technical ability;
- b) Financial ability;
- c) Good character; and
- d) Other qualifications necessary to continue to operate the cable television system consistent with the terms of the franchise.

X 7.4 A copy of the completed sales agreement, or a functionally equivalent instrument, between the Franchisee and proposed transferee or assignee shall be provided to the Municipality, upon request of the latter.

X 7.5 The Municipality may approve said petition contingent on compliance with additional standards, terms, or conditions within its regulatory purview and consistent with findings resulting from its review of the aforementioned petition.

X 7.6 In the event that the Municipality refuses to grant the aforementioned petition, it shall set forth specific reasons for its decision in writing by municipal resolution.

### 8.0 DEFAULT, REVOCATION. TERMINATION. ABANDONMENT

X 8.1 The Municipality may revoke this franchise and all rights of the Franchisee hereunder for any of the following reasons:

- a) The Franchisee fails, after thirty (30) days prior written notice from the Municipality, to comply or to take reasonable steps to comply with a material provision or material provisions of this franchise as defined in this section. Notwithstanding the above, when the Franchisee is once again in compliance, the right to revoke this franchise shall no longer pertain with respect to the condition that precipitated the notice;
  - 1) For the purposes of this section, material provisions are deemed to be those establishing the Municipality's right to:
    - i. collect from the Franchisee a franchise fee, the annual sum of which shall be equal to the maximum percentage allowed by law (currently five percent 5%) of gross revenue as defined herein, less any amount payable by the Franchisee to the PSC, as per section 17.0;
    - ii. require that the Franchisee maintain and improve the cable communications system as per section 11.0;
    - iii. require public, educational, and government access to the cable communications system as per section 16.0;
    - iv. establish reasonable consumer protection provisions as per Part V;
    - v. evaluate and approve transfers and assignments of the cable communications system as defined in section 7.0 of this franchise.

b) The Franchisee takes the benefit of any present or future insolvency statute, or makes a general assignment for the benefit of creditors, or files a voluntary petition in bankruptcy, or files a petition or answer seeking an arrangement or reorganization or readjustment of its indebtedness under Federal bankruptcy laws or under any other law or statute of the United States or any state thereof, or consents to the appointment of a receiver, trustee or liquidator of all or substantially all of its property, or is adjudged bankrupt by order of decree of a court, or an order is made approving a petition filed by any of its creditors or stockholders seeking reorganization or readjustment of its indebtedness under any law or statute of the United States or of any state thereof, subject to the following:

- 1) The Municipality shall have the right to revoke this franchise subject to the Bankruptcy Act and any applicable provisions of federal and state law, one hundred and twenty (120) days after the appointment of a receiver or trustee to take over and conduct the business of Franchisee, whether in receivership, reorganization, bankruptcy or other action or proceeding.
- 2) Consistent with applicable state and federal law, the filing of a bankruptcy petition alone shall not constitute a material default of this franchise, provided, however, and subject to applicable federal and state law, in the event of a bankruptcy or other judicial proceeding related thereto, the Municipality retains all existing rights and enforcement authority under this franchise and its police powers.

3) Subject to applicable federal and state law, any trustee or receiver of Franchisee shall be required to assume responsibility for, and remedy all existing defaults and provide adequate assurance of future performance under this License during the pendancy of such bankruptcy or judicial proceeding related thereto; or

c) The Franchisee attempts or does practice a fraud or deceit in its securing of this franchise; or

d) The Franchisee fails to comply with provisions of this

franchise, pertaining to public, educational, and governmental access; or

e) The Franchisee practices fraud or displays repeated negligence in the accurate reporting of information to the Municipality, including but not limited to information pertaining to the Franchisee's calculation of the Municipality's franchise fee; or

f) The Franchisee fails to pay any legally owed taxes or fees due the Municipality, unless the amount of such payment is part of a good faith dispute; in which case the payments in question will be put in escrow until the dispute is settled; or

g) The Franchisee fails to maintain adequate insurance as specified in this franchise; or

h) The Franchisee fails to obtain the prior approval of the Municipality for transfer or assignment of the franchise; or

i) The franchisee fails to provide and maintain the cable communications system as specified in Section 11.0 herein.

X 8.2 Notwithstanding the above, no revocation shall be effective unless and until the Municipality shall have adopted an ordinance or resolution setting forth the cause and reason for the revocation and the effective date thereof, which ordinance or resolution shall not be adopted until after the expiration of the written notice (re: Section 8.0 a) to the Franchisee and an opportunity for the Franchisee to be fully and fairly heard.

X 8.3 In no event, and notwithstanding any contrary provision in this section or elsewhere in this franchise, shall this franchise be subject to revocation or termination, or the Franchisee be liable for non-compliance with or delay in the performance of any obligation hereunder, where its failure to cure or to take reasonable steps to cure is directly attributable to formal U.S. declaration of war, government ban on the affected obligation, U.S. government sponsored or supported embargo, civil commotion, strikes or work stoppages (except those against the Franchisee and its affiliates), fires, and any acts of God or of nature or other events beyond the immediate control of the Franchisee. This provision includes work delays caused by waiting for utility providers to service or monitor their utility poles to which Grantee's Cable System is attached, as well as unavailability of materials and/or qualified labor to perform the work necessary.

X 8.4 In the event of such circumstances as described in Section 8.3, the Franchisee may be excused from its obligations herein during the course of any such events or conditions, only upon application to and approval by the Municipality. Such application shall include clear evidence as to how such events have prevented the Franchisee from meeting its obligations. Upon approval by the Municipality of the Franchisee's application, the time specified for performance of the Franchisee's obligations hereunder shall extend for such reasonable time thereafter as may be determined by the Municipality; such approval may not be unreasonably withheld.

X 8.5 Upon revocation, the Municipality shall have the option either of purchasing the cable communications system or of requiring the Franchisee to remove all portions of the system from all public ways and places at the expense of the Franchisee, subject to the provisions of applicable Federal and State law.

X 8.6 The Franchisee shall not abandon any service or portion thereof required to be provided pursuant to the terms of this franchise without the prior written consent of the Municipality.

### 9.0 SEVERABILITY

X 9.1 Should any provision of this franchise be held invalid by a court of competent jurisdiction or rendered a nullity by Federal or state legislative or regulatory action, the remaining provisions and this franchise shall remain in full force and effect.

#### **10.0 EFFECTIVE DATE AND TERM**

X 10.1 The effective date of this franchise shall be the date this franchise is granted a certificate of confirmation by the PSC.

X 10.2 The term of this franchise shall be five (5) years from the effective date.

#### PART II — THE SYSTEM

#### **11.0 SYSTEM SPECIFICATIONS**

X 11.1 Subject to FCC and PSC regulations, policies, and standards, and subject to the cable communication systems' capability of providing the services and facilities prescribed in this franchise, the technical design of the cable communications system serving the Municipality shall be at the option of the Franchisee and as further described in this section.

X 11.2 The Franchisee shall maintain its systems at a minimum of 750 MHz subject to the conditions as follows:

- a) the Franchisee shall comply with all aspects of the Commission's customer service and consumer protection standards;
- b) in accordance with Section 895.5 of the PSC's regulations, the Franchisee will provide service to all areas with an average of 20 homes per aerial mile or greater without contribution in aid of construction by subscribers. In cases of a request for service not meeting the above criteria, the Franchisee will extend service to prospective subscribers who are willing to contribute the cost of construction in accordance with the formula C/LE CA/P = SC where C equals the cost of construction per mile in the primary service area; P equals the average cost of construction per mile in the primary service area; P equals the minimum number of dwelling units per mile which would require the Franchisee to provide service in the primary service area; SC equals subscriber contribution-in-aid of construction in the line extension area.

Whenever a potential subscriber located in a line extension area requests service, the Franchisee shall, within 30 days of the request, conduct a survey to determine the number of potential subscribers located in the line extension area and shall inform each of the potential subscribers of the contribution-in-aid of construction. During a five year period commencing with initiation of service to a particular line extension, a pro-rated refund shall be paid to previous subscribers of said extension as new subscribers are added to the extension. The amount of such refund, if any, shall be determined by application of the SC formula each time a new subscriber is added. The refunds shall be paid annually to subscribers, or former subscribers entitled to receive them.

Cable service shall be provided to any subscriber who demands service within seven (7) business days of the request for service and who is located within 250 feet of aerial feeder cable, and that the charge for the installation for any subscriber so situated will not be in excess of the standard installation charge.

c) The Franchisee shall initiate discussions with, and assist in development of applications for use of the fiber optic network by local governments and the educational and medical communities within the territorial limits of the Municipality.

X 11.3 Throughout the term of this franchise, the Franchisee shall maintain and make regular improvements to its cable television distribution system serving the Municipality to ensure that the technical capabilities of said system will not serve to be a limiting factor on the Franchisee's ability to regularly implement new cable services as may be created and developed during the term of this franchise.

X 11.4 The cable communications system shall incorporate equipment capable of providing standby powering of the cable communications system so as to minimize area outages caused by interruption of power; such equipment shall be so designed as to prevent the standby power source from powering a "dead" utility line.

X 11.5 The Franchisee will comply with all applicable federal & state regulations regarding the Emergency Alert System.

X 11.6 The Cable System shall be designed, constructed and operated so as to meet those technical standards adopted by the FCC relating to Cable Systems contained in part 76 of the FCC's rules and regulations as may from time to time, be amended.

X 11.7 The cable communications system shall provide for the availability and operation of cablecast origination points from, at a minimum, the public and educational buildings specified in Section 16.2.

X 11.8 The Company will comply with Part 895.5 of the PSC Rules.

## 12.0 SYSTEM PERFORMANCE STANDARDS

12.1 All signals carried by the cable communications system shall be transmitted with a degree of technical quality not less than that prescribed by rules of the federal and state regulatory agencies having jurisdiction.

12.2 Operation of the cable communications system shall be such that no interference will be caused to broadcast and satellite television and radio reception, telephone communication, amateur radio communication, aircraft and emergency communications, or other similar installation or communication within the franchise area.

## 13.0 SYSTEM MAINTENANCE AND REPAIR

X 13.1 The Franchisee shall establish and adhere to maintenance policies which guarantee delivery of service to subscribers at or above the performance standards set forth herein.

X 13.2 When interruption of service is necessary for the purpose of making repairs, adjustments, or installations, the Franchisee shall do so at such time and in such manner as will cause the least possible inconvenience to subscribers. Unless such interruption is unforeseen or immediately necessary, the Franchisee shall give reasonable notice thereof to subscribers.

X 13.3 The company shall have a toll-free telephone so that requests for repairs or adjustments can be received at any time, twenty-four (24) hours per day, seven (7) days per week.

X 13.4 The response of the Franchisee to such requests shall be in accordance with Federal and State law and regulation at a minimum and, at all times, commensurate with the Franchisee's responsibility to maintain service to each subscriber with the degree of quality specified herein.

### PART III — THE SERVICE

#### 14.0 GENERAL SERVICE OBLIGATION

X 14.1 The Franchisee shall not unlawfully discriminate against any such person as to the availability, maintenance, and pricing of such cable service. Cable service will not be denied to any group of potential residential subscribers because of the income of the residents of the local area in which such group resides.

### 15.0 MUNICIPAL, LIBRARY AND SCHOOL SERVICE

X 15.1 The grantee shall maintain, without charge, one outlet to each state accredited Public School, Public Library and municipal building located in the Service Area served by the Cable system and listed in Exhibit A, and will provide free Basic Cable Service, for so long as the Cable System remains in operation in the Service Area. Any such school may install, at its expense, such additional outlets for classroom purposes as it desires, provided that such installation shall not interfere with the operation of Grantee's Cable System, and that the quality and manner of installation of such additional connections shall have been approved by the Grantee and shall comply with all local, State and federal laws and regulations. In addition, the Grantee shall furnish to the Grantor, without installation or monthly charges, one outlet to each Police and Fire Station, and to the administration building of the Grantor as listed in Exhibit A.

X 15.2 Limitations on Use. The Cable Service provided pursuant to this Section shall not be used for commercial purposes and such outlets shall not be located in areas open to the public. The Grantor shall take reasonable precautions to prevent any use of the Grantee's Cable System that results in the inappropriate use thereof or any loss or damage to the Cable System. The Grantor shall hold the Grantee harmless for any and all liability or claims arising out of the provision and use of Cable Service required by subsection 13.1 above. The Grantee shall not be required to provide any outlet to any such building where a standard drop of more than two hundred fifty (250) feet is required, unless the Grantor of building owner/occupant agrees to pay the incremental cost of any necessary extension or installation.

### 16.0 PUBLIC. EDUCATIONAL, AND GOVERNMENTAL ACCESS

X 16.1 The Franchisee shall designate no less than two (2) channels, or the requisite number above that as prescribed by Federal and State laws and regulations, on the cable communications system.

X 16.2 The Franchisee will maintain origination points at the following locations : a) Plattsburgh City Hall, b) Plattsburgh High School, c) Mountain Lake Public

Broadcasting, d) SUNY Plattsburgh. The Franchisee will provide such capability for an origination point at additional municipal and educational buildings as designated by the Municipality The Municipality shall be responsible for the half of the expense associated with providing the return signal and designated equipment for these additional origination points.

X 16.3 The Franchisee shall comply with the standards for public, educational and government (PEG) access as set forth in Section 895.4 of the PSC Rules and as proscribed by Federal law.

### PART IV — FRANCHISEE'S OBLIGATIONS TO THE MUNICIPALITY

#### **17.0 FRANCHISE FEE**

X 17.1 Beginning with the effective date of this franchise, the Franchisee shall pay to the Municipality during the term of this franchise a quarterly sum equal to five percent (5%) or the maximum percentage allowed by law of the Franchisee's total Gross Revenue for the preceding quarter. Such payment shall be made on a quarterly basis for the periods January 1 through March 31, April 1 through June 30, July 1 through September 30, and October 1 through December 31. Each such payment shall be due no later than sixty (60) days after the close of each such quarterly period.

X 17.2 Annually, a report prepared by the Franchisee setting out in detail the basis for the computation of the payment. Said report shall itemize receipts from all cable related services. The Franchisee also shall indicate on such report the source and amount of any and all credits taken against gross receipts and the franchise fee itself.

X 17.3 Upon thirty (30) days written notice to the Franchisee, the Franchising Authority shall have the right to audit the books and records of Franchisee to determine whether the Franchisee has paid the franchise fees owed. Said audit shall be conducted no more often than annually, and the audit period shall not be any greater than the previous three (3) years. The audit shall not last longer than six (6) months. Any undisputed additional amounts due to the Franchising Authority as a result of the audit shall be paid within sixty (60) days following receipt by Franchisee of the Franchising Authority's demand letter, which letter shall include the calculations and findings of the audit, or of execution by both parties of a Settlement Agreement of the audit. In the event the audit concludes that the Franchisee's payments hereunder were underpaid by an amount greater than 5% of the proper payment, then the Franchisee shall reimburse the Franchising Authority for the cost of said audit, in addition to making any additional payments required to bring the Franchisee into compliance with this section.

X 17.4 At any time during the term of this franchise, in the event that the law or regulations of the state and federal regulatory agencies having jurisdiction change to permit a fee in excess of that permitted on the effective date of this franchise, then the franchise fee shall be raised by the Franchise to the maximum permitted, upon request and notice from the Municipality and with PSC approval.

X 17.5 The Franchisee will not apply franchise fees as credit against special franchise assessments as permitted by section 626 of the Real Property Tax Law of the State of New York.

### **18.0 INDEMNITY AND INSURANCE**

X 18.1 The Grantee shall maintain throughout the term of the Franchise insurance in amounts at least as follows:

Workers' Compensation	Statutory Limits
Commercial General Liability	[\$3,000,000] per occurrence, Combined Single Liability (C.S.L.) [\$5,000,000] General Aggregate
Auto Liability including coverage on all owned, non-owned hired autos Umbrella Liability	[\$3,000,000] per occurrence C.S.L.
Umbrella Liability	[\$3,000,000] per occurrence C.S.L.

The Grantor shall be added as an additional insured to the above Commercial General Liability, Auto Liability and Umbrella Liability insurance coverage.

X 18.2 The Franchisee shall indemnify and save the Municipality harmless from any and all losses sustained by the Municipality by reason of any suit, judgment, execution, claim or demand whatsoever, including expenses, disbursements and reasonable attorney's fees, resulting from acts or omissions on the part of Franchisee in the construction erection, operation, maintenance or repair of its cable communications system within the Municipality pursuant to the exercise by Franchisee of the franchise rights grated herein, and for this purpose, Franchisee shall carry property damages and public liability insurance written by an insurance company licensed to do business in the State of New York in the amounts specified herein.

X 18.3 All such Franchisee insurance policies and certificates of insurance shall stipulate that the coverage afforded under the policies will not be cancelled until at least thirty (30) days prior written notice has been given to the Municipality.

X 18.4 Not later than sixty (60) days after the effective date of this franchise, the Franchisee shall furnish to the Municipality certificates of insurance.

#### 19.0 RATES AND CHARGES

X\_19.1 Rates and charges imposed by the Franchisee for cable television service shall be subject to the regulations of the F.C.C..

X 19.2 The Franchisee shall comply with all notice requirements contained in Federal and State law and regulations pertaining to rates and charges for cable television service.

X 19.3 The Franchisee shall not oppose, nor in any way object to, any request for certification filed by or on behalf of the Municipality with the Federal Communications Commission pursuant to the Cable Television Consumer Protection and Competition Act of 1992.

X 19.4 The Franchisee shall not unfairly discriminate against individuals or classes of individuals in the establishment and application of its rates and charges for service.

X 19.5 Senior and Handicapped Citizen Discount

(a) Current Subscribers receiving a Senior Citizen or Handicapped Citizen Discount as of the Execution Date of this Renewal shall continue, throughout the term of this Renewal, to receive an equivalent discount to that set forth in subsection (b), the following notwithstanding.

(b) For the term of this Franchise only, for those eligible pursuant to the provisions below, the Senior Citizen or Handicapped Citizen Discount shall be ten percent (10%) off of the price of the Basic Service tier of service, and shall not apply to any other channels or tiers and shall not apply to packages.

(c) To be eligible, a resident must meet the following criteria: sixty-five (65) years of age or older or handicapped and head of household and, in each case, receiving one of the following: (i) Supplemental Security Income (SSI); (ii) Medicaid; (iii) Veterans' Services Benefits; (iv) senior citizen real estate tax abatement, if any, pursuant to applicable law; or (v) any other suitable criteria that the Franchisee and the Issuing Authority mutually agree upon in writing as an amendment to this Franchise, with PSC approval.

(d) To establish eligibility, a resident shall bring or mail a photocopy of a valid driver's license, birth certificate or other document definitively establishing age, plus a photocopy of documentation definitively establishing receipt by the resident at time of application for this discount of any one of the programs listed in (i)-(iv) of Section 19.5(c). A resident need establish eligibility for this discount only once to continue receiving it so long as they remain a Subscriber.

#### **20.0 EMPLOYMENT PRACTICES**

X 20.1 The Franchisee 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.

### 21.0 MUNICIPALITY'S RIGHT TO EQUAL BENEFITS AND SERVICES

21.1 The Municipality has jointly negotiated the franchise terms herein with the other municipalities in the Clinton County Cable Television Council, including the City of Plattsburgh, the Village of Keesville, and the Towns of Ausable, Beekmantown, Chesterfield, Dannemora, Peru, Plattsburgh, Saranac and Schuyler Falls, and agrees that the terms and conditions of each franchise renewal agreement shall be identical for each municipality listed above.

### 22.0 MUNICIPALITY'S RIGHT TO INQUIRE ABOUT AND INSPECT SYSTEM

X 22.1 The Municipality, at any time, may make reasonable inquiries related to its regulatory responsibilities, concerning the management and operation of the cable communication system by the Franchisee. The Franchisee shall respond to such inquiries forthrightly and within two weeks.

X 22.2 Where repeated subscriber complaints causes the Municipality to question the reliability or technical quality of cable service, the Municipality shall have the right and authority to require the Franchisee to, test, analyze, and report on the performance of the cable communications system. The Franchisee shall cooperate fully with the Municipality in performing such testing.

X 22.3 The Municipality shall have the right, in the presence of a representative of the Franchisee, to inspect all construction or installation work performed subject to the provisions of this franchise and to make such tests as it shall find necessary to ensure compliance with the terms of this franchise and other pertinent provisions of law.

X 22.4 At all reasonable times and for the purpose of enforcement of this franchise, the Franchisee shall permit examination by any duly authorized representative of the Municipality, of the local cable communication system facilities, together with any appurtenant property of the Franchisee situated within the Municipality and outside of the Municipality if its is utilized in the operation of the Municipality's cable communications system. Such examination shall take place in the presence of a representative of the Franchisee.

### 23.0 MUNICIPALITY'S RIGHT TO INSPECT BOOKS AND RECORDS

X 23.1 To the extent not inconsistent with or prohibited by the provisions of Section 631 of the Cable Act and all other laws relating to subscriber privacy, the municipality reserves the right to inspect any and all records the Franchisee is required to maintain pursuant to this Franchise upon reasonable notice and during normal business hours. The Franchisee will make such materials available at its local business office. Municipality will maintain the confidentiality of any information obtained pursuant to this provision to the extent permitted by law, provided Franchisee has advised Municipality of the confidential nature of the information. In the event that Municipality receives a request for the disclosure of such information with which it, in good faith, believes it must under law comply, then Municipality will give Franchisee to take such steps as it may deem appropriate to seek judicial or other remedies to protect the confidentiality of such information.

#### 24.0 REPORTS TO BE FILED BY FRANCHISEE WITH THE MUNICIPALITY

X 24.1 Upon request the Municipality, the Franchisee shall file with the Municipality a copy of any technical, operational, or financial report the Franchisee submits to the PSC, the FCC, or other governmental entities that concern, directly or indirectly, the Franchisee's operation of the cable communications system in the Municipality.

X 24.2 The Franchisee shall prepare and submit to the Municipality an annual report setting forth the physical miles of plant construction and plant in operation within the Municipality during the Franchisee's previous fiscal year.

X 24.3 The Franchisee shall file with the Municipality, simultaneously with their delivery to subscribers in the Municipality, copies of all printed materials prepared for general distribution to subscribers.

X 24.4 The Franchisee shall furnish to the Municipality such additional information and records with respect to the operation, affairs, transactions or property of the cable communications system and the service provided to the Municipality under this franchise, as may be reasonably necessary and appropriate to the performance of any of the rights, functions or duties of the Municipality in connection with this franchise as determined by the Municipality.

X 24.5 Any valid reporting requirements contained in the franchise may be satisfied with system-wide statistics, except for reporting requirements related to franchise fees and customer complaints.

### 25.0 MANDATORY RECORDKEEPING

X 25.1 The Franchisee shall comply with all record keeping requirements established by Federal and State law and regulation. If such law or regulation permits the later destruction of said records, the Franchisee shall provide the Municipality with ninety (90) days prior written notice of its intention to destroy said records to permit the Municipality to inspect said records if it so desires.

X 25.2 The Franchise shall maintain a full and complete set of plans, records and "as built" maps showing the exact location of all cable installed or in use in the territorial limits of the Municipality. In accordance with PSC Rule 896.6 (a), the Franchisee shall maintain an up-to-date map or other technical records showing the physical location of all cable routes, service areas, receive sites and other interconnection points. The scale of such maps and detail of other technical information shall be such as to permit the determination of franchise areas and subscribers served.

### 26.0 EMERGENCY USE

X 26.1 If the Grantee provides an Emergency Alert System ("EAS"), then the Grantor shall permit only appropriately trained and authorized persons to operate the EAS equipment and shall take reasonable precautions to prevent any use of the Grantee's Cable System in any manner that results in inappropriate use thereof, or any loss or damage to the Cable System. The Grantor shall hold the Grantee, its employees, officers and assigns harmless from any claims or costs arising out of use of the EAS, including, but not limited to, reasonable attorneys' fees and costs.

# PART V -- FRANCHISEE'S OBLIGATIONS TO SUBSCRIBERS AND CUSTOMER SERVICE REQUIREMENTS

#### 27.0 COMPLIANCE WITH FEDERAL AND STATE LAW AND REGULATION

X 27.1 The Franchisee shall comply with all Federal and State laws and regulations, as well as with all industry codes of good practice, that regulate the Franchisee's customer service responsibilities. In the event of conflicting provisions, the Franchise shall comply with the provision establishing a stricter standard. The franchisee will comply with the customer service and consumer protection standards set forth in PSC Rules Parts 890 and 896.

### **28.0 EMPLOYEE IDENTIFICATION/TRAINING**

X 28.1 Each employee of the Franchisee, including employees of contractors and subcontractors employed by the Franchisee, shall have prominent picture identification that clearly identifies the employee as a representative of the Franchisee. All vehicles of the Franchisee, including those of contractors and subcontractors employed by the Franchisee, shall be clearly and consistently identified with the Franchisee's logo or name.

#### **29.0 REQUIREMENT FOR ADEQUATE TELEPHONE SYSTEM**

X 29.1 The Franchisee shall utilize a toll-free telephone system that meets the following minimum standards:

a) The telephone system, under normal operating conditions, shall have, at a minimum, enough incoming lines and adequate staff to process incoming calls such that each call is answered in four (4) rings and no caller is placed on hold for more than thirty (30) seconds to reach a customer service representative.

b) The rate of lost calls shall not exceed three (3%) percent in any one-month period.

c) No more than twenty percent (20%) of all calls shall trigger an overflow device that rolls over calls on hold for more than 30 seconds into a message recording system.

### **30.0 MISCELLANEOUS PROVISIONS**

X 30.1 The Franchisee shall ensure that the subscriber's premises are restored to their original condition if damaged by the Franchisee's employees or agents in any respect in connection with the installation, repair, or disconnection of cable service. The Franchisee is liable for breaches of customer service standards and all other provisions of this franchise by its contractors, subcontractors or agents.

### PART VI — GUARANTEE OF FRANCHISEE'S PERFORMANCE

#### **31.0 PERIODIC PERFORMANCE EVALUATION SESSIONS**

X 31.1 Upon thirty (30) days notification by the Municipality, the Franchisee shall be prepared to participate in a meeting or series of meetings evaluating the performance of the Franchisee under the franchise. The timing of such performance evaluation sessions shall be solely in the discretion of the Municipality; however, each such session shall not be initiated sooner than one year after the close of a previously conducted performance evaluation session. All performance evaluation meetings shall be open to the public.

X 31.2 Topics which may be discussed at any performance evaluation session may include, but not be limited to, system performance, compliance with this franchise and applicable law, customer service and complaint response, subscriber privacy, services provided, programming offered, service rate structures, franchise fees, penalties, free or discounted services, applications of new technologies, and judicial and FCC filings.

X 31.3 During review and evaluation, the Franchisee shall fully cooperate with the Municipality and shall provide such information and documents as the Municipality may reasonably need to perform its review.

X 31.4 Each performance evaluation session shall be deemed to have been completed as of the date the Municipality issues a final report on its findings.

#### **32.0 GUARANTEE OF PERFORMANCE**

X 32.1 Not later than thirty (30) days after the effective date of this franchise, the Franchisee shall obtain and maintain during the entire term of this franchise at its sole cost and expense, one performance bond to be posted in the amount fifty thousand dollars (\$50,000), in a form satisfactory to the Clinton County Cable Television Council to guarantee the faithful performance by the Franchisee of its obligations as provided in this franchise and the coterminous franchises in the other municipalities that comprise the Clinton County Cable Television Council.

X 32.2 The performance and security bond shall be subject to but not be limited to the following conditions:

a) The total amount of the bond shall be forfeited in favor of the Municipality in the event, after thirty days written notice to the franchisee with opportunity for the latter to cure or challenge:

(i) The franchisee abandons service to any portion of the Municipality at any time during the term of the franchisee;

(ii) The franchisee assigns the franchise without the express written consent of the Municipality;

(iii) The franchisee fails to comply with sections 20.0, 18.0, and 11.0 pertaining to non-discrimination, insurance, and the cable system; or the

franchise is revoked pursuant to section 8.0; provided, that the bond may not be forfeited if the insurance required by section 18.0 is in effect but the insurance company has failed to furnish the evidence required under that section.

b) Not less than thirty days prior written notice to the Municipality shall be provided of the franchisee's intention to cancel, materially change, or not to renew the initial provisions of the bond.

X 32.3 Upon written application by the franchisee, the Clinton County Cable Television Council may at its sole option, permit the amount of the bond to be reduced or the Clinton County Cable Television Council may waive the requirements for a performance bond altogether subject to the conditions set forth below:

a) No reduction or waiver shall occur prior to one year following the commencement of this franchise agreement.

b) Reductions granted or denied upon application by the franchisee shall be without prejudice to the franchisee's subsequent applications, however, no application shall be made within one year of any prior application.

X 32.4 The rights reserved to the Municipality with respect to use of the performance and security bond are in addition to all other rights of the Municipality whether reserved by this franchise or authorized by law, and no action, proceeding or exercise of a right with respect to such fund shall affect any other rights the Municipality may have.

#### 33.0 SECURITY FUND

33.1 In addition to the performance bond required, the franchisee shall deposit as a security fund in a bank within the City, no later than thirty days after the effective date of this franchise, the sum total of ten thousand dollars (\$10,000) for the faithful performance by the franchisee of the provisions of this franchise and the other franchises within the Clinton County Cable Television Council; such fund shall be payable to a Special Account of the Clinton County Cable Television Council reserved for cable related expenditures only as determined by the Board of the Clinton County Cable Television Council, and shall be restored by the Franchisee, in full, to the amount prescribed in this section, within thirty days of any undisputed withdrawal from the security fund made pursuant to the terms of this Franchise.

33.2 If the Franchisee fails to make timely payment to the Municipality, or its designee, of any amount due under the penalty provisions of section 34.0, or fails to pay the Municipality within ten days of written notification that any such undisputed payment is due; or if the Municipality is compelled to pay for any undisputed damages, costs, or expenses because of any undisputed default of the Franchisee in conjunction with this Franchise, the Municipality may withdraw the necessary or prescribed amount from the security fund and utilize said amount to rectify or cure said undisputed default

33.3 No amount shall be withdrawn from the security fund described in the section if the event precipitating such withdrawal is the subject of a judicial challenge by the Franchisee, and until and unless final disposition by judicial authorities determines that
such payment must be made or the matter is otherwise settled by an agreement between the Franchisee and the Municipality.

## 34.0 PENALTIES FOR MATERIAL BREACHES

34.1 If the Franchisee fails to observe any obligation under the franchise and such breach of the franchise is insufficient to warrant revocation of the franchise, the Municipality may assess the Franchisee, and the Franchisee agrees to pay to the Municipality, subject to full due process and the notice and opportunity to cure provisions set forth in Section 8 herein, a monetary penalty in accordance with the schedule of penalties set forth in this section.

34.2 Within ten business days of receipt of a notice that the Franchisee has failed to comply with a provision of the franchise pursuant to 34.1, and only after a full due process and the notice and opportunity to cure provisions set forth in Section 8 herein, the Franchisee shall pay the full amount prescribed in this section to the Municipality.

34.3 Upon failure of the Franchisee to make timely payment of an undisputed assessed penalty, the Municipality shall have the right to withdraw the amount of such penalty from the security fund established pursuant to section 33.0. The Municipality shall provide Franchisee with written notification of any such withdrawal.

34.4 Amounts received by the Municipality as penalties assessed against the Franchisee, whether directly paid by the Franchisee to the Municipality or withdrawn from the security fund by the Municipality, shall be placed in a Special Account of the Municipality reserved for cable related expenditures only. Such Special Account shall be subject to audit and public disclosure.

34.5 Pursuant to this section, the following monetary penalties shall apply:

a) Willful failure to construct the system and make service available to existing households along a line extension agreed to by Franchisee and Municipality within 120 days of executing such an Agreement in writing, so long as such 120 days fall within the May 1<sup>st</sup> thru October 31<sup>st</sup> construction season -- \$50.00/ day until completed.

b) In the event that the Franchise Fees herein required are not tendered on or before the dates fixed in Section 17.1 above, interest due on such fee shall accrue from the date due at the rate of one percent (1%) above the annual Prime Rate.

c) Failure to meet with the Municipality's Board, upon latter's reasonable request and upon reasonable advance written notice, as required in this Agreement, or to reasonably cooperate with performance evaluation sessions as required in this Agreement -- \$100.00 per occurrence.

## 35.0 EFFECT OF MUNICIPALITY'S FAILURE TO ENFORCE FRANCHISE PROVISIONS

35.1 The Franchisee shall comply with any and all provisions of this franchise and applicable state and federal law and regulation. Once a breach of a provision or provisions is identified by the Municipality and the Franchisee is finally adjudged to have breached a provision or provisions as provided in this franchise, the penalty or revocation provisions of this franchise shall pertain as applicable.

35.2 Any fines or other claims arising out of any actual breach of this franchise shall be effective from the date such breach is found to have commenced. The Franchisee's responsibility to cure any such breach or remit any such fines or claims shall not be diminished by the failure of the Municipality to enforce any provision of this franchise and the Franchisee hereby agrees to waive any statute of limitations that may be applicable to any such breach during the term of this franchise.

## 36.0 NOTICES

36.1 a) Every notice and/or request to be served upon the Town/Franchising Authority shall be delivered by hand or sent by Federal Express or other express receipted delivery service or certified mail (postage prepaid) to the following address:

Town of Plattsburgh, Town Hall, 151 Banker Road Plattsburgh, New York 12901 ATTN: Supervisor

or such other address as the Franchising Authority may specify in writing to the Licensee.

Every notice served upon the Franchisee shall be delivered by hand or sent by Federal Express or other express receipted delivery service or certified mail (postage prepaid) to the following address:

VP/General Manager, Charter Communications, 95 Higgins Street, Worcester, Massachusetts 01606,

with a copy sent to

Vice President, Government Affairs and Franchise Relations East Division, Charter Communications, 95 Higgins Street, Worcester, Massachusetts 01606, and Vice President, Government Affairs and Franchise Relations, Charter Communications, Inc., Charter Plaza 12405 Powerscourt Drive, St. Louis, Missouri 63131

or such other address as the Franchisee may specify in writing to the Franchising Authority. The delivery shall be equivalent to direct personal notice, direction or order, and shall be deemed to have been given at the time of receipt of such notice.

b) All required notices shall be in writing.

Signatures

Town of Plattsburgh, New York Bernard C. Bassett 6 Sheila A, Brockway mos Thomas E. Wood Renadette Martin D. Mannix Date: 1-20-2009

NY Public Service Commission

Date:

Falcon First Cable of New York, Inc. I/k/a Charter Compunications Signature: Joshua L Jamison President East Division 3/24/09

Date

Signal Quality Measurements Signal Stability Tests

Principle Headend: Plattsburgh, NY\_\_\_\_\_

·

Test Dates: 1/20/2009 to 2/13/2009\_ Reviewed by: <u>Dan Rushford</u> Date Reviewed: 02/13/2009

PSID NUMBER: \_0005149\_

1 - Pass 2 - Soft failure, does not affect picture quality  $\leq .5$ dB)

GRADING SCALE:

3 - Hard failure, impairs picture quality >.5dB) NR - Not Received

\_\_\_\_\_

		ST SCRIP											
Customer Signal Quality Measurements	SPEC.	HE	TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8	TP9	TP10	TPII
wieasurements	4.5 MHz +/-5kHz			<u> </u>	<u> </u>	<u> </u>		+	+	<u> </u>			
Aural	4.5 MHz +/-5KHz	1	1	1	1	1	1	1					
Frequency Response	+/-2dB	1	1	1	1	1	1	1	1	1			
Signal Level (100 Ft.)	>3dBmV		1	1	I	1	1	1		1			
Signal Level (Sub. Term.)	>0dBmV		1	1	1	1	1	1	1	1			
V/A Carrier Separation *Baseband *Other	6.5-17dB 10-17 dB	1	1	1	1	1	1	1	1	1			
Carrier/Noise	>43dBc		1	1	1	1	1	1	1	1			
Signal/Coherent Distortion *S lard 7	>53dB >49dB		1	1	1	1	1	1	l	1			
Hum	<3%		1	1	1	1	1	1	1	1			
Isolation	18dB		1	1	1	1	1	1	1	1			
System Stability Tests	SPEC.	HE	TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8	TP9	TP10	TP11
Adjacent Carrier Levels	3dB		1	1	1	1	1	1	1	1			
Maximum Separation Any Two Carriers	I IdB(+)		1	1	1	1	1	1	1	1			
Maximum Input Level	≤ MANU SPECS		1	1		1	1	1	1	1			
24-Hour Maximum Variation	8dB		1	1	1	1	1	1	1	1			

REMARKS : \_\_\_\_\_

2/13/08

## TECHNICAL STANDARDS COMPLIANCE REPORT SIGNAL QUALITY MEASUREMENTS

## HEADEND

Plattsburgh, New York

## PSID

0005149

## DATE

February 13, 2009

## .st Equipment: Signal Quality Measurements

 Headend:
 Plattsburgh, New York
 PSID Number:
 0005149

Serial Number	Calibration Date
4109A04509	05/05/2008
200102124	05/05/2008
PW03361227	05/05/2008
SG41080279	05/05/2008
SG41080278	05/05/2008
B020609	05/05/2008
	4109A04509 200102124 PW03361227 SG41080279 SG41080278 B020609

## **Charter Communications**

## **Principal Headend Information**

7309 Route 9, North Plattsburgh, NY 12091 County of Clinton LAT: (NAD83) 44-41-03 N LONG: (NAD83) 73-26-45 W

## **Tower Site**

68 Bridge Street Plattsburgh, NY 12901 County of Clinton Lat: (NAD83) 44-41-49.2 N Long: (NAD83) 73-26-59.5 W

## **Channel Lineup Report**

Division:	East
Area	New England (KMA)
System:	Plattsburgh, NY

Headend: Plattsburgh Lineup: Plattsburgh, NY LineupID: 135 Baridwidth: 750 Start Date: 1/1/2000 Last Change: 1/31/2009 Cutoff Date: 2/13/2009 Simulcast: No

Digital Control: Location:

1

Max DMA: BURLINGTON-PLATTSBURGH Min DMA: BURLINGTON-PLATTSBURGH

								Switch	
EłA	Display			MC /	Actual Change		<b>-</b> .	Digital	Local/PEG
Channel	Channel	I Programming Service	Service Level	Launch Date RTC	Date Date	Satellite - Transponder	Part Time Q/	AM Broadcast	Feeds
80	0	SARA/Scientific Allenia	Interactive Services	2/1/2001	CONTRACTOR AND ADDRESS OF ADDRESS OF	Contraction of the South States		DAM No marrie ou	
02	2 3.3	WPTZ - NBC	Basic	RTC	6/10/2004	-		No	
04	ା ମିକ୍ରିକୁମ 4	WETK - PBS	Basic	MC	6/10/2004	1998년 - 1999년 - 1999년 1999년 - 1999년 - 1999년 1999년 - 1999년 -		<ul> <li>A state of a state of a state of a state</li> </ul>	
05	5	CBFT.SRC Montreal	Basic Basic	RTC	6/10/2004	- NATION OF BEEN ALL AND A DESCRIPTION OF BEEN ALL AND A DESCRIPTION OF A	Look, editi to totto tota USA MA	No	A 100-0000000000000000000000000000000000
06	6	CBMT CBC Montreal	Basic	RTC	12/1/2001 3/31/2008		Section and Main	No No	
		WCFE - PBS	Basic	MC	6/10/2004		Second State	No	
08 09	8 9	WCAX - CBS	Basic	RTC	6/10/2004	- Aerona and an ann an Aireanna. -		No	
10	인 이 <b>의</b> 등 등 10	WFFF FOX WWBI-LP - IND	Basic Basic			n - Mar Prisader		<ul> <li>March #Part (BAD) (2014) 11 (1996) 11 (1996)</li> </ul>	
Sett∋≎		WFFF DT2 (CW) - CW	Basic	RTC 12/31/2007 RTC	6/10/2004 12/31/2007		- 174 - 174 - 174 - 174 - 174 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 175 - 1	No	(b) Classic values from the transmission of the second s
12	12	QVC	Basic	CERTIFICATION ALTO	2/9/2005	AMC 10 - 9	e vise i di kina referida, e zita	No No	en and and a subset of the second second
13	13	CFCF-TV CTV Montreal	Basic		12/29/2004	a Castan Barata	APRIL BAR		
14 15	14 15	Home Shopping Network	Basic	8/3/2000	12/1/2001	Satcom C4 DNU - 10		No	<ol> <li>Constraint a strategy of the additional strategy (Destrict strategy)</li> </ol>
16	16	Government Access	Basic Basic		9/1/2007;	idi.• il districtione espective		en en en servició de la completa de la servició de la completa de la servició de la completa de la servició de	$\mathbf{U}_{i}(\mathbf{r}) = \mathbf{U}_{i}(\mathbf{r}) + \mathbf{U}_{i}(\mathbf{r})$ , which is a structure of the structure
17		Educational Access	Basic	- Million allerications (1996)	9/1/2007 9/1/2007	NGC SINY PROPERTY SEE		No No	
18	18	WGMU-LP - MyTV	Basic	RTC	2/9/2005	Galaxy 18 - 5	and the second secon	No	
20		EWIN and the second state of the second state	Basic	- Sandar Market	12/1/2001	Galaxy 15 - 11	ania a constante,	No	
21 22	21 22	CSPAN	Basic	The second s	2/9/2005	AMC 11 - 7		No	1 I I I I I I I I I I I I I I I I I I I
23	23	TV Guide	Basic Basic		12/1/2001 12/1/2001	Salcom C4 DNU - 19			
24	24	YES Network	Exp Basic	3/20/2002	12/1/2001	Galaxy 15 - 6 Galaxy 17 - 9	Leonard Car	No No	
25	25	ESPN	Exp Basic		12/1/2001	Galaxy 15 - 9	and a state of states of	No	
26 27		ESPN2 Fox Sports Net New York	Ехр Вазіс		12/1/2001			No	
28	28	Madison Square Garden	Exp Basic		12/1/2001	AMC 1 - 18	1. An announcement an announcement	No	
29	29	Speed Channel	Exp Basic	8/1/2000	2/9/2005	AMC 1 - 18 Galaxy 17 - 6	ių užisterių Provingus Pilyt.	No.	
30		Versus	Exp Basic	8/1/2000	1/15/2003	,			
31 32	31 32	Golf Channel	Exp Basic	8/1/2001	9/1/2005	Galaxy 14 - 4		No	a ta a sur a ta a sur a su
33	1 1 Mar 1 Mar	THE WEATHER AND AN AND A MERICAL AND A STREET AND A STREE	Exp Basic		12/1/2001	Galaxy 14 - 6	A A A A A A A A A A A A A A A A A A A		
34	34	USA	Exp Basic		12/1/2001 2/9/2005	Galaxy 14 - 17 Galaxy 15 - 24		No 	1997 - 1997 Marine Marine Marine and Antonio and Antonio and Antonio and Antonio Antonio Antonio Antonio Antonio
35		Travel Channel	Exp Basic	8/1/2000	2/9/2005	AMC 10 - 13	la su istan (1946-1967) A	No	n e ser en en en en de la manier de la company de la c
36 37		The Weather Channel MSNBC	Exp Basic		2/9/2005	이야지 말했는 것 같아요. 소리가 가지 않는 것이 같아요. 이야지 않는 것이 같아요. 이야지 않는 것이 없는 것이 없 않이		Not set and the set	
38		CNN Headline News	Exp Basic Exp Basic	8/1/2001	6/21/2004	AMC 10 - 13	sta tang	No	······································
39		CNN	Exp Basic Exp Basic		12/1/2001 12/1/2001	Galaxy 14 - 22 Galaxy 14 - 5	endere enget	No No	
40		CNBC	Exp Basic		6/21/2004		ur starter		
42 43		FOX News Channel	Exp Basic	8/1/2001	12/1/2001	Galaxy 15 - 18		No	and a second
43		The Learning Channel of Honore And Honore And Honore And Garden Television	Exp Basic	12/28/1999	9/1/2005	AMC 11 - 16	u <b>Mar</b> ri e Staats	No	
45		Food Network	Exp Basic	8/1/2000 8/1/2000	9/1/2005 9/1/2005	AMC 10 - 1	영영성 사람가 깨끗	No No an an an an	and a second
46	46	E!	Exp Basic	8/1/2000	6/21/2004	AMC 10 - 6	والمراجع المراجع والمراجع	No No	
45 49		Lifetime	Exp Basic		2/9/2005	AMO 11 - 4	le participad		
49 50		ABC Family The Discovery Channel	Exp Basic	A CARLES AND A CARLES AND A CARLES AND A	2/9/2005	Galaxy 14 - 11		No	a a l'hanne anna a sharar an
51	AN1. A 11	Animal Planet	Exp Basic	8/1/2000	12/1/2001	Satcom C4 DNU - 21	n se ar an		
52		Nickelodeon-East	Exp Basic	8/1/2000	9/29/2003 12/1/2001	Satcom C4 DNU - 14 Satcom C4 DNU - 3	ine an in an an an	No No	
54		The Disney Channel	Exp Basic	[3] S. S. Markelland, and R. Link, Phys. Rev. Lett. 11, 11 (1996).	12/1/2001	Galaxy 14 - 7	a ne la recordo de la sectión (	No	en e
<b>55</b> 56		Carloon Network	Exp Basic	8/1/2000	12/1/2001	Galaxy 15 - 8	NO TRAPPO	No	
50 57		AMC	Exp Basic	12/28/1999	2/9/2005	AMC 11 - 18	د د از افغا میخون ورو	No	na se provincia de la companya de la
58	14 B T 1 4	Turner Classic Movies	Exp Basic Exp Basic	12/28/1999 12/28/1999	9/1/2001 9/1/2005	Galaxy 15 - 1	(Selection) (Selection)	No	
				12/20/1000	9/1/2005	Galaxy 15 - 16		No	

59 59	History State Stat	Exp Basic	8/1/2000	2/9/2005 AMC 11 - 12	
60 60 61 61	A&E Comedy Centrel	Exp Basic	8/1/2000	2/9/2005 AMC 11 - 12	No
62 62	Sci-Fi	Exp Basic Exp Basic	12/28/1999 RTC 12/28/1999 RTC	2/9/2005 AMC 11 - 21 2/9/2005 Galaxy 15 - 24	No
63 63	Spike TV	Exp Basic		2/9/2005 AMC 11 - 18	No No
64 64 65 65	CMT VH-1 California (Sector Sector Sector)	Exp Basic <b>Exp Basic</b>	12/28/1999	2/9/2005 AMC 11 - 18	No
66 66	<ul> <li>MTV</li> </ul>	<ul> <li>Exp Basic</li> <li>Exp Basic</li> </ul>		9/1/2005 AMC 10 - 11 9/1/2005 AMC 10 - 11	No No
67 67	BET WARD DU AND DU AND SAUD	Exp Basic		12/1/2001 Getaxy 14 - 20	Na
68 68 70 70	National Geographic	Exp Basic Exp Basic	3/30/2001	12/1/2001 Galaxy 1R - 6	No
71 71	Style	Exp Basic Exp Basic	12/15/2001 11/15/2000	12/15/2001 Galaxy 17 - 5 2/9/2005 AMC 11 - 8	No.
72 72 72	SponsNet New York	Exp Basic	4/15/2006	4/15/2006 AMC 1 - 12	
73 73 74 74	TruTV Disney XD	Exp Basic Exp Basic	2/1/2002 11/15/2000	2/9/2005 AMC 11 - 6	
75 75	Off Track Betting	Exp Basic	11/13/2000	2/9/2005 Galaxy 18 - 11 12/1/2002 -	No
76 76 78 78	GSN (Game Show) MT∨2	Exp Basic	4/30/2002	9/1/2005 AMG 11 - 8	
95 95	Univision	Exp Basic Basic	11/15/2000 1/1/1993	12/29/2004 AMC 11 - 15 12/1/2002 Galaxy 3C - 5	
96 96	Shop NBC	Basic	7/18/2003	7/18/2003 Galaxy 15 - 12	No
98 98 99 99	Inspirational Network	Basic	2/1/2002	5/1/2002 Galexy 15 - 17	No
92 100	NY State Legislator Channel	Basic Basic (Digital Only)	12/14/2006	9/1/2007 - Yes 12/14/2006, AMC 1 - 19	No No statu wa second
84 101	BBC America	Digital ViewPlus	11/15/2000	2/17/2003 AMC 11 - 22 256 Q	그는 것 같은 것 같
84 102 84 103	Planet Green Military Channel	Digital ViewPlus		(a) The second s Second second secon second second sec	AM No
84 104	Discovery En Espanol	Digital ViewPlus Digital ViewPlus	11/15/2000 11/15/2000	2/17/2003 AMC 11 - 22 256 Q 2/17/2003 AMC 11 - 22 256 Q	
100 105	Do It Yourself	Digital View	11/15/2000	2/9/2005 Galaxy 23 - 14 256 Q	
<b>84 107</b> 87 108	Discovery Kids Nickeladeon Toa-West	Digital ViewPlus	11/15/2000		AM No
87 109	Noggin	Digital View Digital View	11/15/2000 11/15/2000	8/23/2006 AMC 11 - 15 256 Q. 2/17/2003 Salcom C3 DNU - 15 258 Q.	22001.22 Million C. Control of Co
87 110	The N	Digital View	11/15/2000	2/17/2003 Satcom C3 DNU - 15 256 Q	
87 111 79 112	Nicktoone Network Soap Net	Digital View	6/1/2002	2/17/2003 Salcom C3 DNU - 15	
101.01	WCFE-DT1 - PBS (Simultrans)	Exp Basic (Digital Only) Básic (Digital Only)	11/15/2000 11/1/2007 RTC	10/20/2008 Galaxy 18 - 11 256 Q/ 11/1/2007 - 256 Q/	
101 115	WCFE-DT4 - PBS (Think Bright)	Basic (Digital Only)	11/1/2007 RTC	11/1/2007 - 256 Q/	
87 173	Boomerang ReelzChannel	Digital ViewPlus Movie View	7/29/2009 2/15/2008	7/29/2008 Galaxy 15 - 16 256 Q	
87 173	ReelzChannel	Digital View	5/15/2008	7/1/2008 Galaxy 15 - 10 256 Q/ 7/1/2008 Galaxy 15 - 10 256 Q/	
69 175 79 195	Ovation	Digital View Płus	12/30/2008	12/30/2008 Galaxy 17 - 13 256 Q/	
110 196	Lifetime Real Women Oxygen	Digital View Exp Basic (Digital Only)	12/29/2005 2/2/2000	12/29/2005 Galaxy 18 - 20 256 Q/ 9/24/2008 Galaxy 17 - 13 256 Q/	그는 것 같아요. 그는 것이 아이지 않는 것 같아요. 이 가지 않는 것 같아요. 이 집에 있는 것 같아요. 이 집에 있는 것 같아요. 이 집에 있는 것 같아요. 것이 않는 것이 없다. 것이 않는 것이 않는 것이 없는 것이 없는 것이 없는 것이 없는 것이 않는 것이 없는 것이 없
94 197	Hallmark Channel	Exp Basic (Digital Only)		-10/20/2008 AMC 11 - 5	
113 198 100 200	Bravo - East Lifetime Movie Network	Digital View	8/1/2001	9/24/2008 AMC 11 - 24 256 Q/	MM No
92 201	Women's Entertainment	Digital View	11/15/2000	2/9/2005 Calaxy 23 - 14 255 Ci 12/14/2006 AMC 11 - 8 256 Ci	
100 202	Independent Film Channel	Digital View Plus	11/15/2000	8/23/2008 Galaxy 23 - 14 256 Q/	
80 203 100 204	Sundance-East	Digital View Plus Digital View Plus	11/15/2000 11/15/2000	2/9/2005 AMC 11 - 19 256 QA	
87 205	mtvU	Digital View Plus	12/29/2004	2/9/2005 Galaxy 23 - 14 256 C/ 12/29/2004 Galaxy 18 - 17 256 C/	
87 206 87 207	MTV TOS	Digital View	11/15/2000	2/9/2005 AMG 11 - 15 256 Q/	
87 207	MTV Jams	Digital View	11/15/2000 6/1/2002	2/9/2005 AMC 11 - 15 256 Q/ 2/9/2005 AMC 11 - 15 256 Q/	
87 209	VH-1 Classic	Digital View	11/15/2000	2/9/2005 AMC 11 - 15 256 QA	M No M No
87 210 92 211	VH-1 Sould a state of a	Digital View		2/9/2005 AMG 11 - 15 256 Q/	M No
92 211 87 212	CMT Pure Country	Digital View	6/30/2005 11/15/2000	6/30/2005 Galaxy 17 - 3 256 Q/ 2/9/2005 AMC 11 - 15 256 Q/	
92 213	Great American Country	Digital View	12/14/2006	12/14/2006 AMC 11 - 9 256 QA	
81 215 92 218	American Life TV	Digital View	12/29/2005	12/29/2005 Galexy 15 - 22	M No
87 210 220	Gospel Music Channel	Digital View Plus Digital View Plus	12/29/2005 12/29/2005	8/23/2006 AMC 11 - 3 256 QA 12/29/2005 Galaxy 17 - 21 2256 GA	the second se
87 250	Jewelry Television by ACN	Exp Basic (Digital Only)	2/8/2005	7/25/2008 Galaxy 23 - 21 256 QA	그는 이번 것 같은 것 같
100 290 83 295	G4 WCAX-DT2 - CBS (Weather)	Digital View		10/9/2007 AMG 10 - 12 258 QA	M No.
		Basic (Digital Only)	11/1/2007 RTC	11/1/2007 - 256 QA	M No

101	296	WPT2-DT2 - NBC (WeatherPlus)	Basic (Digital Only)	11/4/2007 RTC	11/1/2007		256	A40	Control of the second s Second second s Second second s Second second s Second second se
	298	Fox Business Network	Digital View	12/30/2008	12/30/2008	Galaxy 17 - β			No. And Andrew State and A
84	300	The Science Channel	Digital View Plus		2/17/2003				
	301	Discovery Health	Digital View Plus	11/15/2000	2/17/2003	AMC 11 - 22	and the second second second second	- C.	No no
<ul> <li>Show and the standard standard</li> </ul>	303	Investigation Discovery	Digital ViewPlus	11/15/2000	2/17/2003		Construction of the second		
	304	Bloomberg	Digital View	11/15/2000	2/9/2005	AMC 11 - 8		A	n an
1 mod 2 cl (1 20) (2 2 1 1	305	ABC News Now	Digital ViewPlus	3/28/2007	3/28/2007	Galaxy 18 - 20	258	QAM	No.
	306	ESPN Classic	Digital View	11/15/2000	8/23/2006	Galaxy 18 - 20	256	QAM	Ao
ふたた 防衛 根外の しょう	307	Biography	Digital ViewPlus	11/15/2000	2/9/2005	Galaxy 23 - 14	256	QAM	Чо
2 W 20 10 10 1	808 809	History Channel International	Digital ViewPlus	11/15/2000	2/9/2005	Galaxy 23 - 14	256	QAM I	van en
2. Lance 2. 20 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 199	910 910	ESPNews Fox Soccer Channel	Sports View	6/29/2006	6/29/2006	- Galaxy 18 - 20			Ya sha ka sh
	911	Fox College Sports - Atlantic	Sports View	2/17/2003	2/17/2003	Galaxy 17 - 6			۹o
def un film rite.	18 C 19	Fox College Sports - Central	Sports View Sports View	2/17/2003	2/17/2003			QAM I	The second se
ALA. 1997 1.1.1.1.		Fox College Sports - Pacific	Sports View	2/17/2003	2/17/2003	Galaxy 17 - 6			
2 × 2 × 1 × 1 × 1 × 1 × 1 × 1		Fuel TV	Sports View	2/17/2003 3/31/2004	2/17/2003 8/23/2006	Galaxy 17 - 6 Galaxy 17 - 6	the state of the s		
94		Fuel TV	Digital View	5/1/2006	8/23/2006	Galaxy 17+6			vo Io
92	18	CBS Callege Sports Network	Sports View	2/8/2005	8/23/2006	Galaxy 15 - 22	이는 것같은 이야기는 것으로 가지 않으면 것 있었다. <mark>한 것 같</mark>	St. 4 21 1 4	<b>lo</b> lo
Ad could consider the		The Tennis Channel	Sports View	12/29/2005	12/29/2005		256		Vo
	21	ESPN U	Sports View	9/13/2007	9/13/2007	Galaxy 18 - 20			vo No
and the second sec		Ouldoor Channel	Sports View	7/30/2008	7/30/2008	Galaxy 18 - 24			lo
	24	The Sportsman Channel	Sports View	2/28/2007	2/28/2007	Galaxy 23 - 1	256	QAM I	40 Tea - Ea -
AAAAA A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	27 29	HRTV Mav TV	Sports View	4/4/2006	4/4/2006	Galaxy 17 - 19	256	QAM I	10
		NHL Network	Sports View	3/28/2007	3/28/2007	Galaxy 17 - 21			ło
		MLB Network	Sports View Exp Basic (Digital Only)	11/1/2007	2 11/1/2007		256		lo
		NHL Center Ice/MLB Extra Innings	(b) The state of the second se Second second sec	12/30/2008 8/16/2002	12/30/2008	Galaxy 17 - 4			io In the second
85 3		NHL Center Ice/MLB Extra Innings	Digital PPV Digital PPV	11/1/2000	10/2/2007	AMC 1 - 13 AMC 1 - 13	256) 266	ar san a s	lo
	52	NHL Center Ice/MLB Extra Innings	Digital PPV	11/1/2000	10/2/2007	AMC 1-13	256		
		NHL Center Ice/MLB Extra Innings	Digital PPV	11/1/2000	10/2/2007	AMC 1 - 13	weak the second second second second	QAM I	
exercises described and the second		NHL Center Ice/MLB Extra Innings	Digital PPV	11/1/2000	10/2/2007	AMC 1 - 13	258		lo
		NHL Center Ice/MLB Extra Innings	Digital PPV	11/1/2000	10/2/2007	AMC 1 - 13			
ALEXANDER VIEW - CO		NHL Center Ice/MLB Extra Innings	Digital PPV	11/1/2090	10/2/2007		256	QAM N	0
		And the set of the set	Digital PPV Digital PPV	11/1/2000	10/2/2007	AMC 1 - 13		QAM N	
and the day for some the for		NHL Center Ice/MLB Extra Innings	Digital PPV Digital PPV	2/1/2002 11/1/2000	10/2/2007	AMC 1 - 13 AMC 1 - 13	256		· · · · · · · · · · · · · · · · · · ·
		a second and the	Digital PPV	1/22/2007	10/2/2007	AMC 1 - 13	256 (		lo Id
	61	NHL Center Ice/MLB Extra Innings	Digital PPV	1/22/2007	10/2/2007	AMC 1 - 13	and the second		그는 그는 것 같은 것이 있는 것 같은 것이 있는 것 같은 것이 같은 것 같은 것이 같은 것 같은 것이 같은 것 같은 것
85 3			Digital PPV	1/22/2007	10/2/2007		256 (		0
		NHL Center Ice/MLB Extra Innings	Digital PPV	1/22/2007	10/2/2007	AMC 1 - 13	256 (		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
ense Secondari			Digital Premium	11/15/2000	2/1/2002	Galaxy 15+23	256 (	aam N	
		HBO 2-East HBO Signature-East	Digital Premium	11/15/2000	12/1/2001	Galaxy 15 - 23	256 (		-
		HBO Family East	Digital Premium	11/15/2000	12/1/2001	Galaxy 15 - 23	256 (		
93 😜 4		a second	Digital Premium	11/15/2000	12/1/2001	Galaxy 15 - 23 Galaxy 15 - 18	256 ( 256 (		
93 4	06	HBO Zone-East	Digital Premium	11/15/2000	12/1/2001	Galaxy 15 - 18	256 ( 256 (		
Philippedia and a contract of the			Digital Premium	2/1/2001	12/1/2001	Galaxy 15 - 23	256 (		0 0
		Cinemax-East	Digital Premium	11/15/2000	2/1/2002	Galaxy 15 - 23	256 (		
<b>88 4</b> 88 4	e		Digital Premium		12/1/2001		256 (	DAM N	Ċ
		Mar Real of Branch Care March 1971 The Control of the Control of Control of Control of Control of Control of Co	Digital Premium	11/15/2000	12/1/2001	Galaxy 15 - 23	256 0		nana na na kao kaominina dia kaominina mpikambana dia 1975 milangkawa kaoka mpika. O
93 4		WMAX - E	Digital Premium	11/15/2000	12/1/2001	Galaxy 15 - 18	258 0	- 19 - Chi - Li	
		and the second second second second second second	Digital Premium Digital Premium	5/17/2001 5/17/2001	8/23/2006 8/23/2006	Galaxy 15 - 18	256 (		
93 4	56	OuterMAX - E	Digital Premium	5/17/2001	8/23/2006	Galaxy 15 - 18 Galaxy 15 - 18	256 C 256 C		<ul> <li>Consider a subscription of the consider Consider structure statement of a subscription statement of the subscription of the subscrinted of the subscription of the subscription of the subscripti</li></ul>
93 4	57	5StarMAX - E	Digital Premium	5/17/2001	8/23/2006	Galaxy 15 - 18			0 <b>0</b>
00 4		Charter DVR	NonVideo	5/10/2004	5/10/2004	- - -	annin 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1	AZARA N	a na sa
69 Si 51			Movie View	11/15/2000		AMG 11 - 19	256 (		•
89 5i	a	Bull 1997 Constant State Contract on the Contract of Contract on the Contract of Contract on the Contract of Contract on th	Movie View	11/15/2000	8/23/2006	AMC 11 - 19	256 0		
89 50			Movie View	11/15/2000	8/23/2006		3x 258 (	20 C C 2	a second seco
69 50		and the second	Movie View Movie View	11/15/2000	8/23/2006	AMC 11 - 19	256 0		
89 50			Movie View Exp Basic (Digital Only)	11/15/2000 11/15/2000	8/23/2006 7/22/2008	AMC 11 - 19	256 C		
89 St		The Movie Channel-East		11/15/2000	8/23/2006		- 256 C		0 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
89 55	51		Movie View	11/15/2000	8/23/2006	AMC 11 - 19	256 C		

81. 600	Starz-East	Digital Premium	9/4/2001	6/23/2008	256 QAM	No.
81 601	Starz in Black-East	Digital Premium	9/4/2001	8/23/2006 Galaxy 15 - 13	256 QAM	No
81 602	a na an	Digital Premium	9/4/2001		258 QAM	No
81 603 81 630	Starz Cinema-East Encore-East	Digital Premium	9/4/2001	8/23/2006 Galaxy 15 - 13	256 QAM	No
81 631	Encore Love East	Movie View Movie View	9/4/2001 9/4/2001	8/23/2008 Galaxy 15 - 3 8/23/2006 Galaxy 15 - 3	256 QAM 256 QAM	and the second
81 632	Encore Action-East	Movie View	9/4/2001	6/23/2006 Galaxy 15 - 3 8/23/2006 Galaxy 15 - 3		No No
81 633	Encore Mystery-East	Movie View	9/4/2001	8/23/2006 Galaxy 15 - 3	256 QAM	No
<b>A1</b> 634	Encore Drama-East	Movie View	9/4/2001	8/23/2008 🖋 Galaxy 15 - 3	256 QAM	
81 635	Encore Westerns-East	Movie View	9/4/2001	8/23/2006 Galaxy 15 - 3	256 QAM	No
87 650 113 700	LOGO The Weather Channel HD	Movie View Exp Basic (HD Only)	6/30/2005	6/30/2005 AMC 11 - 15	258 QAM	No
114 701	FOX News Channel HD	Exp Basic (HD Only)	7/18/2008 12/24/2008	1/1/2009 AMC 11 - 24 12/24/2008 Galaxy 15 - 4	256 QAM 256 QAM	No No
101 702	WPTZ-DT - NBC	Basic (HD Only)	11/1/2007 RTC	11/1/2007 -	256 QAM	Ny No
82 704	WVNY-DT - ABC	Basic (HD Only)	-11/1/2007	11/1/2007		No
101 707 B3 708	WCFE-DT - PBS	Basic (HD Only)	11/1/2007 RTC	1 1/1/2007 -	256 QAM	No
83 709	WCAX DI - CBS WFFF-DI - FOX	Basic (HD Only) Basic (HD Only)	11/1/2007 RTC	11/1/2007	256 QAM	No
102 720	ESPN HD	Exp Basic (HD Only)	1 1/1/2007 RTC 1 1/1/2007	11/1/2007 - 1/1/2009 Galaxy 18 - 22	256 QAM 256 QAM	No No
107 721	ESPN2 HD	Exp Basic (HD Only)	11/1/2007	1/1/2009 Galaxy 18 - 20	256 QAM	No
103 724	YES Network - HD	Exp Basic (HD Only)	11/1/2007	1/1/2009 AMC 1 - 6		No
112 725 112 726	Golf HD	Exp Basic (HD Only)	12/24/2008	12/24/2008 Galaxy 14 - 4	256 QAM	No
112 726 115 727	Versus HD HGTV HD	Exp Basic (HD Only) Exp Basic (HD Only)	12/24/2008 12/24/2008	12/24/2008 Galaxy 14 - 4	258 QAM	No
115 728	Food Network HD	Exp Basic (HD Only)	12/24/2008	12/24/2008 AMC 10 - 1 12/24/2008 AMC 10 - 1	256 QAM 256 QAM	No No
113 729	Discovery HD	Exp Basic (HD Only)	7/18/2008	1/1/2009 AMC 10 - 5	256 QAM	Ne No
103 730	HD Theater		11/1/2007	11/1/2007 AMC 11 - 16		No
108 731 103 732	TNT - HD Universa HD	Exp Basic (HD Only)	11/1/2007	1/1/2009 Galaxy 13 - 23	256 QAM	No
109 733	Palladia	HD Ultra View HD Ultra View	11/1/2007 12/27/2007	11/1/2007 AMG 11-24		No and a second s
109 734		Exp Basic (HD Only)	11/1/2007	5/16/2008 AMC 10 - 17 1/1/2009 Galaxy 14 - 23	256 QAM 256 QAM	No No
109 735	History Channel HD	Exp Basic (HD Only)	11/1/2007	1/1/2009 Galaxy 14 - 23	256 QAM	No No
114 736	The Learning Channel HD	Exp Basic (HD Only)	7/16/2008	1/1/2009 AMC 10 - 21	256 QAM	No
444 707		<ul> <li>International and the second se</li></ul>	· 문문· 사람 변경에서 가장 가장 모양 이 나 영화 201 Rule 가 가장 가장가 가지 가운다.	A NYEARA STORED THAT I THAT I	200 QAM	NO
114 737	TBS HD	Exp Basic (HD Only)	7/18/2008	1/1/2009 Galaxy 15 - 8	256 QAM	age that is the standard of the transmission of the standard sectors and a standard sector standard sectors and No
114 737	TBS HD Animal Flanel HD	Exp Basic (HD Only) Exp Basic (HD Only)	7/18/2008 12/24/2008	1/1/2009 Galaxy 15 - 8 12/24/2008 Galaxy 13 - 22	256 QAM 256 QAM	No No
2111 738	TBS HD	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only)	7/18/2008 12/24/2008 12/24/2008	1/1/2009 Galaxy 15 - 8 12/24/2008 Galaxy 13 - 22 12/24/2008 Galaxy 17 - 22	256 QAM <b>256 QAM</b> 256 QAM	No No No
<b>111</b> 738 115 739 110 741 111 742	TBS HO Antmai Planet HD fx HD (East) Nafonal Geographic HD Smithsonian HD	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View	7/18/2008 12/24/2008	1/1/2009 Galaxy 15 - 8 12/24/2008 Galaxy 13 - 22	256 QAM <b>256 QAM</b> 256 QAM	No No
111         738           115         739           110         741           111         742           102         750	TBS HO Antraal Planet HD Ix HD (East) National Geographic HD Smithsonian HD HBO HDTV-East	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View (HD Premiur)	7/18/2008 12/24/2008 12/24/2008 12/24/2008 12/1/2008 12/1/2008	1/1/2009         Galaxy 15 - 8           12/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           11/1/2007         Galaxy 13 - 10	256 QAM 256 QAM 256 QAM 256 QAM 256 QAM	No No No No
111         738           115         739           110         741           111         742           102         750           108         751	TBS HD Animai Planet HD Ix HD (East) National Geographic HD Smithsonian HD HBO HDTV-East Cinemax HDTV-East	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ulra View HD Ura View HD Premium HD Premium	7/18/2008 12/24/2008 12/24/2008 12/24/2008 12/24/2006 12//2006 11/1/2007	1/1/2009         Galaxy 15 - 8           12/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 1           12/1/2008         AMC 11 - 17           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11	256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 258 QAM 258 QAM	No No No No
111         738           115         739           110         741           111         742           102         750	TBS HO Antraal Planet HD Ix HD (East) National Geographic HD Smithsonian HD HBO HDTV-East	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium	7/18/2008 12/24/2008 12/24/2008 12/24/2008 12/1/2008 11/1/2007 11/1/2007 11/1/2007	1/1/2009         Galaxy 15 - 8           12/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 1           12/1/2008         AMC 11 - 17           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMC 10 - 20	256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM	No No No No No No
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         756           119         769	TBS HO Antraal Planet HD fx HD (East) National Geographic HO Smithsonian HO HBO HDTV-East Criemax HDTV-East Showime HDTV-East Showime HDTV-East HDTV-East	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ulra View HD Ura View HD Premium HD Premium	7/18/2008 12/24/2008 12/24/2008 12/24/2008 12/24/2006 12//2006 11/1/2007	1/1/2009         Galaxy 15 - 8           12/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 1           12/1/2008         AMC 11 - 17           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11	256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM	No No No No
111         738           115         739           110         741           111         742           102         750           108         751           108         756           109         766           109         769	TBS HD Antraal Planet HD Ix HD (East) National Geographic HD Smithsonian HD HBO HDTV-East Cinemax HDTV-East Showtime HDTV-East Starz HDTV-East HDPPV, The Movie Channel HDTV-East	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium HD Premium HD Premium HD Premium	7/18/2008 12/24/2008 12/24/2008 12/24/2008 12/24/2008 12/1/2008 11/1/2007 11/1/2007 11/1/2007 11/1/2007 11/1/2007 12/1/2008 12/2/2008	1/1/2009         Galaxy 15 - 8           12/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMC 10 - 20           11/1/2007         Galaxy 13 - 9           1/1/2007         Galaxy 13 - 9           1/1/2007         Galaxy 13 - 9           1/1/2007         AMC 10 - 7           12/3/2007         AMC 10 - 20	256 QAM 256 QAM	No No No No No No
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         756           119         769	TBS HO Antraal Planet HD fx HD (East) National Geographic HO Smithsonian HO HBO HDTV-East Criemax HDTV-East Showime HDTV-East Showime HDTV-East HDTV-East	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium HD Premium HD Premium HD Premium	7/18/2008 12/24/2008 12/24/2008 12/24/2008 12/1/2008 11/1/2007 11/1/2007 11/1/2007 11/1/2007 11/1/2008 12/1/2008 12/1/2008	1/1/2009         Galaxy 15 - 8           12/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 1           12/24/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMC 10 - 20           11/1/2007         Galaxy 13 - 9           6/16/2008         AMC 10 - 7           12/3/2007         AMC 10 - 20           2/1/2007         AMC 10 - 20	256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM	No No No No No No No No
111         738           115         739           110         741           111         742           102         750           108         751           108         756           109         766           109         769	TBS HD Antraal Planet HD Ix HD (East) National Geographic HD Smithsonian HD HBO HDTV-East Cinemax HDTV-East Showtime HDTV-East Starz HDTV-East HDPPV, The Movie Channel HDTV-East	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium HD Premium HD Premium HD Premium	7/18/2008 12/24/2008 12/24/2008 12/24/2008 12/24/2008 12/1/2008 11/1/2007 11/1/2007 11/1/2007 11/1/2007 11/1/2007 12/1/2008 12/2/2008	1/1/2009         Galaxy 15 - 8           1/2/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 4           12/1/2008         AMC 10 - 4           12/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMC 10 - 20           11/1/2007         Galaxy 13 - 9           6/16/2008         AMC 10 - 7           12/3/2007         AMC 10 - 20           2/3/22007         AMC 10 - 20           2/3/22007         AMC 10 - 20           2/3/22007         AMC 10 - 18	256 QAM 256 QAM	No No No No No No No No
111         738           115         739           110         741           111         742           102         750           108         751           109         766           109         766           107         791           91         800           91         801           91         802	TBS HD Animal Planet HD X HD (East) National Geographic HD Smithsonian HD HBO HDTV-East Crierrox HDTV-East Showing HDTV-East Starz HDTV-East HDPPV The Movie Channel HDTV-East IN DEMAND Previews Sports & Events IN DEMAND 1-Events IN DEMAND 2-Events	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium HD Premium Digital PPV Digital PPV Digital PPV	7/18/2008 12/24/2008 12/24/2008 12/1/2008 12/1/2008 11/1/2007 11/1/2007 11/1/2007 5/16/2008 12/22007 12/1/2000	1/1/2009         Galaxy 15 - 8           12/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 1           12/24/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMC 10 - 20           11/1/2007         Galaxy 13 - 9           6/16/2008         AMC 10 - 7           12/3/2007         AMC 10 - 20           2/1/2007         AMC 10 - 20	256 QAM 266 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM 256 QAM	No No No No No No No No No No
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         751           107         753           108         756           119         769           107         791           91         800           91         801           91         802           91         803	TBS HD Antmal Planet HD fx HD (East) National Geographic HD Smithsonian HD HBO HDTV-East Cinemax HDTV-East Showtime HDTV-East Starz HDTV-East HDPPV. The Movie Channel HDTV-East IN DEMAND Previews-Sports & Events IN DEMAND 1-Events IN DEMAND 2-Events IN DEMAND 2-Events IN DEMAND 3-Events	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium HD Premium HD PPV HD Premium Digital PPV Digital PPV Digital PPV Digital PPV	7/18/2008 12/24/2008 12/24/2008 12/1/2008 12/1/2008 13/1/2007 11/1/2007 11/1/2007 11/1/2007 12/3/2007 11/1/2000 11/1/2000 11/1/2000	1/1/2009         Galaxy 15 - 8           12/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMG 10 - 1           12/1/2008         AMG 10 - 1           12/1/2008         AMG 10 - 1           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMG 10 - 20           2/1/4/2007         Galaxy 13 - 9           5/16/2008         AMG 10 - 18           2/1/2007         AMG 10 - 18           11/1/2007         Galaxy 13 - 9           5/16/2008         AMG 10 - 18           2/1/4/2007         AMG 10 - 18           11/1/2007         AMG 11 - 3           11/1/2007         AMG 11 - 3	256 QAM 256 QAM	No No No No No No No No No No
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         756           119         769           107         791           91         800           91         803           91         802           91         803           91         804	TBS HD Animal Planet HD fx HD (East) National Geographic HD Smithsonian HD HBD HDTV-East Cinemax HDTV-East Showtime HDTV-East Starz HDTV-East HDPPV The Movie Channel HDTV-East IN DEMAND 1-Events IN DEMAND 1-Events IN DEMAND 3-Events IN DEMAND 4-Movies	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium HD Premium Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV	7/18/2008 12/24/2008 12/24/2008 12/1/2008 12/1/2008 11/1/2007 11/1/2007 11/1/2007 12/1/2007 11/1/2000 11/1/2000 11/1/2000 11/1/2000	1/1/2009         Galaxy 15 - 8           1/2/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMC 10 - 20           11/1/2007         Galaxy 13 - 9           6/6/2008         AMC 10 - 7           12/3/2007         AMC 10 - 18           8/23/2006         AMC 11 - 3           11/1/2000         AMC 11 - 3	256 QAM 256 QAM	No No No No No No No No No No No
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         756           119         769           107         791           91         800           91         802           91         802           91         803           91         804	TBS HD Antmal Planet HD fx HD (East) National Geographic HD Smithsonian HD HBO HDTV-East Cinemax HDTV-East Showtime HDTV-East Starz HDTV-East HDPPV. The Movie Channel HDTV-East IN DEMAND Previews-Sports & Events IN DEMAND 1-Events IN DEMAND 2-Events IN DEMAND 2-Events IN DEMAND 3-Events	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium HD Premium Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV	7/18/2008 12/24/2008 12/24/2008 12/24/2008 12/1/2008 11/1/2007 11/1/2007 11/1/2007 11/1/2006 11/1/2006 11/1/2000 11/1/2000 11/1/2000 11/1/2000	1/1/2009         Galaxy 15 - 8           1/2/4/2008         Galaxy 13 - 22           12/2/4/2008         Galaxy 17 - 22           12/2/4/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMC 10 - 20           11/1/2007         Galaxy 13 - 9           5/16/2008         AMC 10 - 7           12/3/2007         AMC 10 - 20           2/14/2007         AMC 10 - 20           2/14/2007         AMC 10 - 3           11/1/2000         AMC 11 - 3	256 QAM 256 QAM	No No No No No No No No No No No No No
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         751           107         753           108         756           119         760           107         791           91         800           91         801           91         802           91         803           91         804           91         805           91         807	TBS H0 Antmal Planet HD Ix H0 (East) National Geographic HD Smithsonian HD HB0 HDTV-East Cinemax HDTV-East Showlime HDTV-East Starz HDTV-East HDPPV The Movie Channel HDTV-East IN DEMAND Previews-Sports & Events IN DEMAND Previews-Sports & Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 4-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 7-Movies	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium HD Premium Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV	7/18/2008 12/24/2008 12/24/2008 12/1/2008 11/1/2007 11/1/2007 11/1/2007 11/1/2007 11/1/2000 11/1/2000 11/1/2000 11/1/2000	1/1/2009         Galaxy 15 - 8           1/2/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMC 10 - 20           11/1/2007         Galaxy 13 - 9           6/6/2008         AMC 10 - 7           12/3/2007         AMC 10 - 18           8/23/2006         AMC 11 - 3           11/1/2000         AMC 11 - 3	256 QAM 256 QAM	No No No No No No No No No No No
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         756           119         769           107         791           91         800           91         803           91         803           91         804           91         804           91         807           91         808           91         807           91         808           91         807           91         808           91         807           91         808           91         807           91         807           90         808           91         807           91         807           91         807	TBS HD Animal Planet HD fx HD (East) National Geographic HD Smithsonian HD HBD HDTV-East Cinemax HDTV-East Showtime HDTV-East Starz HDTV-East HDPPV The Movie Channel HDTV-East IN DEMAND Previews Sports & Events IN DEMAND 1-Events IN DEMAND 2-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 6-Movies IN DEMAND 7-Movies Blox	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium Digital PPV Digital PPV	7/18/2008 12/24/2008 12/24/2008 12/1/2008 12/1/2008 13/1/2007 11/1/2007 11/1/2007 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000	1/1/2009         Galaxy 15 - 8           12/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMC 10 - 20           11/1/2007         Galaxy 13 - 9           5/16/2009         AMC 10 - 20           2/1/2007         AMC 10 - 18           8/23/2005         AMC 11 - 3           11/1/2000         AMC 11 - 3	256 QAM 256 QAM	No No No No No No No No No No No No No N
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         756           119         769           107         791           91         800           91         801           91         802           91         803           91         804           91         805           81         804           91         805           81         804           91         805           84         806           89         804	TBS HD Antmail Planet HD fx HD (East) National Geographic HD Smithsonian HD HBD HDTV-East Cinemax HDTV-East Showing HDTV-East Starz HDTV-East HDPPV The Movie Channel HDTV-East IN DEMAND Previews Sports & Events IN DEMAND 1-Events IN DEMAND 2-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Kovies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 7-Movies Blox	Exp Basic (HD Only) Exp Basic (HD Only) HD Ital View HD Premium HD Premium HD Premium Digital PPV HD Premium Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital Adult - PPV	7/18/2008 12/24/2008 12/24/2008 12/24/2008 12/1/2008 11/1/2007 11/1/2007 11/1/2007 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2005	1/1/2009         Galaxy 15 - 8           1/2/4/2008         Galaxy 13 - 22           12/2/4/2008         Galaxy 17 - 22           12/2/4/2008         AMC 10 - 4           12/1/2008         AMC 10 - 4           12/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMC 10 - 20           11/1/2007         Galaxy 13 - 9           6/16/2008         AMC 10 - 20           2/14/2007         AMC 10 - 20           2/14/2007         AMC 10 - 18           8/23/2006         AMC 11 - 3           11/1/2000         Galaxy 23 : 24	256 QAM 256 QAM	No No No No No No No No No No No No No N
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         756           119         769           107         791           91         800           91         803           91         803           91         804           91         804           91         807           91         808           91         807           91         808           91         807           91         808           91         807           91         808           91         807           91         807           90         808           91         807           91         807           91         807	TBS HD Animal Planet HD fx HD (East) National Geographic HD Smithsonian HD HBD HDTV-East Cinemax HDTV-East Showtime HDTV-East Starz HDTV-East HDPPV The Movie Channel HDTV-East IN DEMAND Previews Sports & Events IN DEMAND 1-Events IN DEMAND 2-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 6-Movies IN DEMAND 7-Movies Blox	Exp Basic (HD Only) Exp Basic (HD Only) HD Premium HD Premium HD Premium HD Premium HD PPV HD Premium Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital Adult - PPV Digital Adult - PPV	7/18/2008 12/24/2008 12/24/2008 12/24/2008 12/1/2008 13/1/2007 11/1/2007 11/1/2007 11/1/2007 11/1/2007 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2005 12/1/2005 12/1/2005 12/1/2005	1/1/2009         Galaxy 15 - 8           1/2/4/2008         Galaxy 13 - 22           12/2/4/2008         Galaxy 17 - 22           12/2/4/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMC 10 - 7           12/3/2007         AMC 10 - 7           12/3/2007         AMC 10 - 20           2/14/2007         GMC 10 - 13           3/12/2007         AMC 11 - 3           11/1/2000         AMC 11 - 3           11/1/2005         Galaxy 23 - 24           12/1/2005         Galaxy 23 - 24	256 QAM 256 QAM	No No No No No No No No No No No No No N
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         756           109         769           107         791           91         800           91         801           91         802           91         803           91         804           91         805           91         806           91         807           91         808           91         806           91         807           86         894           86         895           86         896	TBS HO Antmail Planet HD fx HD (East) National Geographic HD Smithsonian HD HBO HDTV-East Criermax HDTV-East Showing: HDTV-East Showing: HDTV-East Showing: HDTV-East HDPPV The Movie Channel HDTV-East IN DEMAND 2-Events IN DEMAND 2-Events IN DEMAND 2-Events IN DEMAND 2-Events IN DEMAND 2-Events IN DEMAND 2-Events IN DEMAND 3-Events IN DEMAND 3-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 7-Movies Blox Claps Penthouse TV	Exp Basic (HD Only) Exp Basic (HD Only) HD Ital View HD Premium HD Premium HD Premium Digital PPV HD Premium Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital Adult - PPV	7/18/2008 12/24/2008 12/24/2008 12/1/2008 12/1/2008 13/1/2007 11/1/2007 11/1/2007 11/1/2007 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 12/1/2005	1/1/2009         Galaxy 15 - 8           1/1/2008         Galaxy 13 - 22           1/2/24/2008         Galaxy 17 - 22           1/2/24/2008         AMC 10 - 1           1/1/2007         Galaxy 13 - 10           1/1/2007         Galaxy 13 - 9           5/16/2008         AMC 10 - 20           2/1/22007         AMC 10 - 18           2/3/2007         AMC 11 - 3           1/1/2000         Galaxy 23 - 24           1/1/2005         Galaxy 23 - 24           1/1/2005         Galaxy 23 - 24	256 QAM 256 QAM	No No No No No No No No No No No No No N
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         756           119         769           107         791           91         800           91         801           91         802           91         804           91         804           91         804           91         804           91         804           91         804           91         804           91         804           91         804           91         804           91         804           91         804           91         804           91         804           91         804           91         804           91         804           86         895           86         896           86         896           86         898	TBS HD Animal Planet HD fx HD (East) National Geographic HD Smithsonian HD HBD HDTV-East Cinemax HDTV-East Starz HDTV-East HDPPV The Movie Channel HDTV-East IN DEMAND Previews Sports & Events IN DEMAND 1-Events IN DEMAND 2-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 7-Movies IN	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium HD Premium HD PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital Adult - PPV Digital Adult - PPV Digital Adult - PPV	7/18/2008 12/24/2008 12/24/2008 12/24/2008 12/1/2008 13/1/2007 11/1/2007 11/1/2007 11/1/2007 11/1/2007 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2005 12/1/2005 12/1/2005 12/1/2005	1/1/2009         Galaxy 15 - 8           1/2/4/2008         Galaxy 13 - 22           12/2/4/2008         Galaxy 17 - 22           12/2/4/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           12/1/2008         AMC 10 - 1           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 11           12/3/2007         AMC 10 - 7           12/3/2007         AMC 10 - 7           12/3/2007         AMC 10 - 20           2/14/2007         GMC 10 - 13           3/12/2007         AMC 11 - 3           11/1/2000         AMC 11 - 3           11/1/2005         Galaxy 23 - 24           12/1/2005         Galaxy 23 - 24	256 QAM 256 QAM	No No No No No No No No No No No No No N
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         756           107         791           91         800           91         801           91         802           91         803           91         804           91         805           91         806           91         805           91         805           91         805           91         805           91         805           91         807           80         894           86         895           86         896           86         898           86         898           86         898           86         898           86         898           80         890           80         890	TBS HO Animal Planet HD X HD (East) National Geographic HD Smithsonian HD HBO HDTV-East Crie max HDTV-East Showime HDTV-East Showime HDTV-East HDPPV The Movie Channel HDTV-East IN DEMAND 2-Events IN DEMAND 2-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 7-Movies Blox Claps Penthouse TV Blue Real Juicy MC - Sound of the Seasona	Exp Basic (HD Only) Exp Basic (HD Only) HD Premium HD Premium HD Premium HD Premium Digital PPV HD Premium Digital PPV Digital PPV Digital PPV Digital PPV Digital PPV Digital Adult - PPV Digital Adult - PPV Digital Adult - PPV Digital Adult - PPV Digital PPV Digital Adult - PPV Digital PPV Digital Adult - PPV Digital PPV Digital PPV	7/18/2008 12/24/2008 12/24/2008 12/24/2008 12/1/2008 11/1/2007 11/1/2007 11/1/2007 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2005 12/1/2005 12/1/2005 12/1/2005 12/1/2005 12/1/2005 12/1/2005 12/1/2005 12/1/2005 12/1/2005 12/1/2005	1/1/2009         Galaxy 15 - 8           1/1/2008         Galaxy 13 - 22           1/2/4/2008         Galaxy 17 - 22           1/2/4/2008         AMC 10 - 1           1/1/2008         AMC 10 - 1           1/1/1/2007         Galaxy 13 - 10           1/1/1/2007         Galaxy 13 - 10           1/1/1/2007         Galaxy 13 - 11           1/2/3/2007         AMC 10 - 20           1/1/1/2007         Galaxy 13 - 9           5/16/2008         AMC 10 - 20           2/14/2007         GMC 10 - 15           8/23/2006         AMC 10 - 20           2/14/2007         AMC 10 - 15           8/23/2006         AMC 11 - 3           1/1/1/2000         AMC 11 - 3           1/1/1/2005         Galaxy 23 - 24           1/1/1/2005         Galaxy 23 - 24           1/1/1/2005         Galaxy 23 - 24           1/1/2005         Galaxy 23	256 QAM 256 QAM	Νο Νο Νο Νο Νο Νο Νο Νο Νο Νο Νο Νο Νο Ν
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         751           107         753           108         756           109         766           107         791           91         801           91         801           91         803           91         804           91         805           91         806           91         807           80         894           86         895           86         897           86         898           86         899           90         901	TBS H0 Antmal Planet HD Ix H0 (East) National Geographic HD Smithsonian HD HB0 HDTV-East Cinemax HDTV-East Showlime HDTV-East Starz HDTV-East HDPPV The Movie Channel HDTV-East IN DEMAND 7-Events IN DEMAND 7-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 4-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 7-Movies Blox Clips Blue Real Juicy MC - Sound of the Seasons MC - Today's County	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium HD Premium HD PPV Digital Adul: PV Digital Adul: PV	7/18/2008 12/24/2008 12/24/2008 12/1/2008 12/1/2008 12/1/2007 11/1/2007 11/1/2007 11/1/2007 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2005 12/1/2005 12/1/2005 12/1/2005 12/1/2005 1/3/2008 1/3/2008	1/1/2009         Galaxy 15 - 8           12/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 1           12/1/2008         AMC 11 - 17           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 9           2/6/62005         AMC 10 - 20           1/1/2007         AMC 10 - 13           1/1/2007         AMC 10 - 14           2//4/2007         AMC 10 - 20           2//4/2007         AMC 11 - 3           11/1/2000         Galaxy 23 : 24           12/1/2005         Galaxy 23 : 24           12/1/2005         Galaxy 23 : 24           12/1/2006         Galaxy 23 : 24           12/1/2007         Galaxy 23 : 24           12/1/2008         Galaxy 23 : 24           13/2/2008         Galaxy 23 : 24 <th>256 QAM 256 QAM</th> <th>No No No No No No No No No No No No No N</th>	256 QAM 256 QAM	No No No No No No No No No No No No No N
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         751           107         753           108         756           109         766           107         791           91         801           91         801           91         803           91         804           91         805           91         806           91         807           80         894           86         895           86         897           86         898           86         899           90         901	TBS HO Animal Planet HD X HD (East) National Geographic HD Smithsonian HD HBO HDTV-East Crie max HDTV-East Showime HDTV-East Showime HDTV-East HDPPV The Movie Channel HDTV-East IN DEMAND 2-Events IN DEMAND 2-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 7-Movies Blox Claps Penthouse TV Blue Real Juicy MC - Sound of the Seasona	Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium HD PPV HD Premium HD PPV Digital Adult - PPV Digital Adult - PPV Digital Adult - PPV Digital PPV Digital Adult - PPV Digital PPV Digital PPV Digital Adult - PPV Digital PPV Digital PPV Digital Adult - PPV Digital Adult - PPV Digital PPV Music Audio (Digital Converter) Music Audio (Digital Converter)	7/18/2008 12/24/2008 12/24/2008 12/1/2008 12/1/2008 12/1/2007 11/1/2007 11/1/2007 11/1/2007 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 12/1/2005 1/1/2006 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2000 1/1/2005 1/1/20	1/1/2009         Galaxy 15 - 8           1/2/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMG 10 - 1           12/1/2008         AMG 10 - 1           12/1/2008         AMG 10 - 1           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 9           5/16/2008         AMG 10 - 70           11/1/2007         Galaxy 13 - 9           5/16/2008         AMG 10 - 70           11/1/2007         Galaxy 13 - 9           5/16/2008         AMG 10 - 18           7/1/2007         AMG 10 - 18           8/23/2006         AMC 11 - 3           11/1/2000         AMC 11 - 3           11/1/2005         Galaxy 23 - 24           12/1/2005         Galaxy 23 - 24	256 QAM 256 QAM	No
111         738           115         739           110         741           111         742           102         750           108         751           107         753           108         756           119         769           107         791           91         800           91         803           91         803           91         803           91         804           91         805           91         804           91         805           91         807           86         894           86         895           86         896           86         896           86         896           86         896           86         896           86         893           86         893           86         893           86         893           86         893           86         893           86         893           86         893	TBS HD Antmal Planet HD fx HD (East) National Geographic HD Smithsonian HD HBO HDTV-East Cinemax HDTV-East Showtime HDTV-East Starz HDTV-East HDPPV, The Movie Channel HDTV-East IN DEMAND 7-Events IN DEMAND 7-Events IN DEMAND 2-Events IN DEMAND 3-Events IN DEMAND 3-Events IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies IN DEMAND 5-Movies Blox Clips Penthouse TV Blue Real Juicy MC - Sound of the Seasona MC - Today's Country MC - Solay Country	Exp Basic (HD Only) Exp Basic (HD Only) HD Ultra View HD Premium HD Premium HD Premium HD PPV Digital Aduli - PPV Digital PPV Digital Aduli - PPV Digital Aduli - PPV Digital Aduli - PPV Digital PPV Digital Aduli - PV Digital Adu	7/18/2008 12/24/2008 12/24/2008 12/1/2008 12/1/2008 12/1/2007 11/1/2007 11/1/2007 11/1/2007 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2000 11/1/2005 12/1/2005 12/1/2005 12/1/2005 12/1/2005 1/3/2008 1/3/2008	1/1/2009         Galaxy 15 - 8           12/24/2008         Galaxy 13 - 22           12/24/2008         Galaxy 17 - 22           12/24/2008         AMC 10 - 1           12/1/2008         AMC 11 - 17           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 10           11/1/2007         Galaxy 13 - 9           2/6/62006         AMC 10 - 20           2//4/2007         AMC 10 - 18           8/23/2006         AMC 11 - 3           11/1/2007         AMC 11 - 3           11/1/2000         Galaxy 23 : 24           12/1/2005         Galaxy 23 : 24           12/1/2006         Galaxy 23 : 24           13/2/2007         Galaxy 23 : 24 <td>256 QAM 256 QAM</td> <td>No No No No No No No No No No No No No N</td>	256 QAM 256 QAM	No No No No No No No No No No No No No N

90	906	MC - Classic R&B	Music Audio (Digital Converter)	11/15/2000	8/23/2006	Galaxy 14 - 10	256 QAM	No
90	907	MC - R&B & Soul	Music Audio (Digital Converter)	11/15/2000	8/23/2006		256 QAM	No
90	908	MC - R & B Hits	Music Audio (Digital Converter)	7/7/2004	8/23/2006	Galaxy 14 - 10	256 QAM	No
9 <b>0</b>	909	MC - Rap	Music Audio (Digital Converter)	11/15/2000	7/24/2002	Galaxy 14+10	256 QAM	No
90	910	MC - Metal	Music Audio (Digital Converter)	11/15/2000	7/24/2002	Galaxy 14 - 10	256 QAM	No
90.	911	MC - Rock	Music Audio (Digital Converter)	7/24/2002	7/24/2002			No
90	912	MC - Arena Rock	Music Audio (Digital Converter)	11/15/2000	7/24/2002	Galaxy 14 - 10	256 QAM	Νο
90	913	MC - Classic Rock	Music Audio (Digital Converter)	11/15/2000	7/24/2002			No
90	914	MC - Adult Alternative	Music Audio (Digital Converter)	11/15/2000	9/18/2007	Galaxy 14 - 10	256 QAM	No
90	915	MC - Alternative	Music Audia (Digital Converter)	11/15/2000	9/18/2007			No
90	916	MC - Retro-active	Music Audio (Digital Converter)	7/24/2002	9/18/2007	Galaxy 14 - 10	256 QAM	No
<b>90</b>	917	MC - Electronica	Music Audio (Digital Converter)	11/15/2000	9/18/2007	Galaxy 14 - 10	256 QAM	No
90	918	MC - Dance	Music Audio (Digital Converter)	11/15/2000	9/18/2007	Galaxy 14 - 10	256 QAM	No
90	919	MC - Lite Hits	Music Audio (Digital Converter)	11/15/2000	8/23/2006	Galaxy 1# - 10	256 QAM	No
90	920	MC - Adult Top 40	Music Audio (Digital Converter)	9/18/2007	9/18/2007	Galaxy 14 - 10	256 QAM	No
승규님이 있는 말한 것은 나를 만들었다. 나 가지	921	MC - Hit List	Music Audio (Digità) Converter)	11/15/2000	9/18/2007	Galaxy 14 - 10	256 QAM	No
		MC - Kidz Only!	Music Audio (Digital Converter)	9/18/2007	9/18/2007	Galaxy 14 - 10	256 QAM	No
22.221 Sci2396 ann. 221	<ul> <li>3825.5</li> </ul>	MC - Party Favorites	Music Audio (Digital Converter)	7/24/2002	9/16/2007	Galaxy 14 = 10	256 QAM	No.
200 C		MC - Showcase	Music Audio (Digital Converter)	11/15/2000	9/18/2007	Galaxy 14 - 10	256 QAM	No
2. A.L. AND AND A CO. A.		MG-90s	Music Audio (Digital Converter)	7/7/2004	9/18/2007	Galaxy 14 - 10	256 QAM	No
		MC - 80s	Music Audio (Digital Converter)	11/15/2000	9/18/2007	Galaxy 14 - 10	256 QAM	No
2908 (N.A.115317) **	. Weiter der Keinsteinen der Keinsteine der Keinstein	MC - 70\$	, Music Audio (Digital Converter)	11/15/2000	9/18/2007	Galaxy 14 - 10		No
		MC - Solid Gold Oldies	Music Audio (Digital Converter)	11/15/2000	9/18/2007	Galaxy 14 - 10	256 QAM	No
statute and a statute in a		MG - Smooth Jazz	Music Audio (Digital Converter)	, 11/15/2000	8/23/2006	한 2008년 1월 1971년 24일 1월 1971년 일 및 2011년 1월 1971년	Were set and the first of the	No second se
and a second real second		MC - Jazz	Music Audio (Digital Converter)	11/15/2000	8/23/2006	Galaxy 14 - 10	256 QAM	No
	N 200900 C	MC - Blues	Music Audio (Digital Converter)	11/15/2000	8/23/2006	na se a companya da se a companya da c		No
		MC - Reggae	Music Audio (Digital Converter)	11/15/2000	8/23/2006	Galaxy 14 - 10		
1	5 N 22 Y	MG - Soundscapes	Music Audio (Digital Converter)	11715/2000	8/23/2006	NAMARA I SALUTI NA MADIDIZADA DA MADI	2	No
		MC - Easy Listening MC - Big Band & Swing	Music Audio (Digital Converter)	11/15/2000	9/18/2007	Galaxy 14 - 10	256 QAM	No Raz Policie ( 1997), prime se substanting a substanting and state state state state state states and states and
ETCPSE MADEL OCT	4	MC - Singers & Standards	Music Audio (Digital Converter)	11/15/2000 + 11/15/2000	9/18/2007 9/18/2007	Second Seales and second s		
	937	MC + Show Tunes	Music Audio (Digital Converter)	7/24/2002	8/23/2006	Galaxy 14 - 10 Galaxy 14 - 10	256 QAM	No Average services of the second
	<ul> <li>- SSS (*** )</li> </ul>	MC - Contemporary Christian	Music Audio (Digital Converter)	11/15/2000	8/23/2006	Galaxy 14 - 10 Galaxy 14 - 10	256 QAM	No No
	939	MC - Gospel	Music Audio (Digital Converter)	11/15/2000	8/23/2006	Galaxy 14 + 10	256 QAM	
90	940	MC - Classical Masterpieces	Music Audio (Digital Converter)	11/15/2000	9/18/2007	Galaxy 14 - 10	256 QAM	No
09		MG - Light Classical	Music Audio (Digital Converter)	11/15/2000	9/18/2007		256 QAM	No
	A Contract of Cont	MC - Pop Latino	Music Audio (Digital Converter)	7/24/2002	9/18/2007	Galaxy 14 - 10	256 QAM	No
90	943	MC - Musice Urbana	Music Audio (Digital Converter)	11/15/2000	9/18/2007	Galaxy 14 + 10	256 QAM	
	944	MC - Salsa Merengue	Music Audio (Digital Converter)	11/15/2000	9/18/2007	Galaxy 14 - 10	256 QAM	No
90	945	MC - Mexicana	Music Audio (Digital Converter)	11/15/2000	9/18/2007	Galaxy 14 - 10		No
90	946	MC - Rock 'En Espanol	Music Audio (Digital Converter)	7/24/2002	9/18/2007	Galaxy 14 - 10	256 QAM	Νο
86	947	MC - Americana	Music Audio (Digital Converter)	9/7/2006	9/7/2006	Galaxy 14 - 10	256 QAM	No
90	948	MC - Opera	Music Audio (Digital Converter)	7/24/2002	9/18/2007	Galaxy 14 - 10	256 QAM	No
200 CONTRACTOR 100 CO	a <b>, 13</b> dae ee	Technical Carrier	NonVideo	5/22/2007	5/22/2007		256 QAM	No
		Charter HSD	NonVideo	5/22/2007	3/31/2008		256 QAM	No
1660L20 1.02.3 K 1078223	0.200 Sec	Charter HSD	NonVideo	3/31/2008	A State of the sta		256 QAM	No
		Charter HSD	NonVideo	3/31/2008	3/31/2008	•		No
48.67 (19.98) (0.096) 661 (19.98)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Charter HSD	NonVideo	8/31/2008		Ele 🔸 a Carlo Arabi Arabian (Carlos de Carlos		No.
112 1	1999	Charter HSD	NonVideo	3/31/2008	3/31/2008	-	256 QAM	No

.

## GENERAL STATEMENT OF QUALIFICATIONS

This Applies to each Technician Performing Any of the Tests

	Headend:	Plattsburgh, New York	PSID Number:	0005149
--	----------	-----------------------	--------------	---------

Technician	Job Title & Qualifications
Tom Mattox	Head End Tech –25 Years in CATV
Dan Rushford	Chief Tech – 32 Years in CATV
Bob Greer	System Tech II– 20 Years in CATV
John Theisen	System Tech Senior – 7 Years in CATV
Roger Barrett	System Tech II- 20 Years in CATV
John Corrow	System Tech II- 7 years in CATV

Technical Manual

# Gateway II Optical Node Installation and Operation Manual

ANTEC

Network Technologies

			-	<b>4</b> 			• ;		
				, D	£ 	で、「		, ł	an a
; ; ;					•		• -1 -1	· · ·	
GENERAL INFORMATION	nuoduo: anoito to to manua	Operational Description	Hunotional Description • Optical Receiver • A.f. Amplifier	- Powering - Status Monitoring	Gateway <sup>n</sup> II Specifications				
		р.:: Т Т		1 	([) ' '-	2	0		
								8	

module was designed to accept an optical input level -3 to -1 iBm with a 457 modulation index. The resub-assembly consists of a PDF diode detector folortd post amplifier. The optical connector provided ide of the standard unit is an SC/UPC type. Received is monitored via a valuage test point which is callide 1 VDC per mW of received power, this data is also light the network management transponder should one to RE output of the receiver module may be measured it rectional coupler test point which follows the post

ard is pictured in diagram contained in section 3 of ng with calibration steps for the proper test point read-

ath RF amplifier sub-assembly consists of an input d by three-power doubler driven amplification stages, inree stages is dedicated to a single output leg. Atplug-in pads, may be accomplished at the input of r hybrids. Equalizer slots are available prior to the te dedicated hybrid to port three and in common to four. Signature correction may also be completed t units prior to the input hybrid and common to ports Directional coupler type test points are provided at /ard path outputs, immediately following the diplex

t RF sub-assembly accepts inputs from each of ports it as well as a 5-200 MHz input from portione. Pads d in each of the reverse legs preceding the reverse ion stage. Input directional coupler type test points r each leg prior to the diplex filter. Programmable " are reverse path diagnostic tools which may be tse legs of ports two through four. These three posilow selected reverse legs to be attenuated by 6 dB tomplish reverse path ingress troubleshooting.

forward and reverse path attenuation, equalization in stages as well as circuit routing are shown in figpath set-up may be completed with the use of the lingram highlighting this portion of the product in this manual. Pads and equalizers are installed at appleve the proper gain abd slope. The following:

CPTICAL HODE

(-3





umayawan II Optical Node - Functional Block Diagram. D-1 errgia

nesinaçıs hedil

idefilometat -อุทธ คบ or upisivoig DC กุละบรรชบร คู่มีชุดประชุมชุด รูกมีกระบบรัญ Olf, enlinge emergatic enT 12 notices al benictneo emergaio al besingil -ngin stande for an grand rewol Miggue rewog grinding 6-,522 ant versesses and verses and of a processes and the set of the se alas A.P. Octon Currenter wave inputs from 40-90 VAC are sup--The Gateway II may be powered through any one of the four avail-

Powering

2670226778-03

			۰ ٥	<i>.</i>	· .
Notes: Dumplete Dittory Inperiand Interatings EQ's) ap return usen Lo Input and Interatings EQ's: TST MEL TST MEL Continues on temptage EQ's:		AC liqut Range ' AC liqut Range ' AC Current @ 90 Vad & 60EE ' AC Current @ 90 Vad & 60EE ' AC Current @ 30 Vad & 60EE ' AC Current @ 50 Vad & 60EE ' Hum Modulation 15-750 MEE '	Trunk 77 NTSC CH @ 3443 mV 10 姓き slope 54 - 750 MHz CRAin CSO: CTB :: XMOD: Endger 77 NTSC CH @ 46 dB mV 10 dB slope 54 - 750 MHz CRA CSO: CTB - 7	Frequency Sexponse (72 Only 1917) : Reput Loss, Forward and Prevents Group Delay (Channel C Group Delay (Channel C Group Delay 15 to 40 MEL DC Current (2 14 Mds Max 1 Maximum Amps per Port	Chinocerismo Servete Print Callonia Port ( Chiput Porta r
The second secon	0°C to90°C				

ð

•

ĉ

,

۰,

100-100(-10)

1

l. Li

Technical Manual

# Gateway II Optical Node Installation and Operation Manual-

ANTEC

Network Technologies

17) (.)  (1) (1) (1) 

-

11 



1

Ü

5

d.

Liso wal Ŷ 0

The following diagram shows the accessaries of the Low Gein Duel System Amplifier II with the paverse amplifier installed.

2

	n u u Auxu Auxu Auxu Auxu Auxu Auxu Auxu	
Ì		t n F
1		
		$\begin{array}{c} 0 & \sum_{i=1}^{n} i_{i} \\ \vdots & \sum_{i=1}^{n} i_{i} \\ \vdots & \sum_{i=1}^{n} i_{i} \\ \vdots \\ 0 & 0 \\ \vdots \\ 0 \\ \vdots \\ 0 \end{array}$
		1. 17 17 1. 1. 1. 2. 2. 1. 17
	U D CI	(1) () []

- - -- - - -- - - -

. .

....<sup>1</sup>

## Blook Diegrams

## Low Gain Duai

4

The following diagram shows the block diagram of the 750 NEE Sow Gein Deal Output System Amplifier III.



Communador azmi zage

ೆಂಡರುವಿಯಾಗಿ ಆಗ್ರೌಂಗಿ ಆರೋಗ್ಯ ಎಂದಿ ಮಾಡಿದ್ದಾರೆ. ಇವರಿ

End all Territ



# Extender III

Ũ 2 0 c11

5



 $\mathcal{X}_{\mathrm{deg}}$ 

'\_(] \_\_\_\_

01

## Accessories. Commune

Factory installed accesso

The following - we contains the factory installed accessories used with the CEID PHD

Acces		Part Number		Locadon	
Reverse EQ 10 dB jumper		562653	EQ2		
Reverse filter		561947			
Reverse filter	ŗ	561948	- 1.4.3		
System Trim 0	jumper	548375	<u>A4</u>		

Miscellaneous accessories

<del>0</del> )	The following :: and the jumper	s contains the miscelianeo res that must be removed i	us accessories used with ÉEIII PHD) before installing each accessory.
	Accessory	Part Number	Location/Jumper to be Removed
	Surge protector	±67351	A5/nojumper

,

 $\{ -i\}$ 

Taps

ANA STATES

ほんち ひんだる いたいいなん うんしもおきま

÷e:

-....

TALENA CAR P. MAR P. 11

100



1 GHz Eight Way Wide Body Tap with Blocking Capacitors REGAL

		1.12					
Frequency (MHz)	5-10	10-10	20-400	005-00L	500-800	500-900	300+1000
ao atom and an annimum a su actuales.	10	2:	22	22	20	: 19	31
RAIT1088C-17	18	20	20	20	22	1 ta	15
Record Loss (dS minimum)	15	51	20	εi	17	1Ĝ	15
AMET:0850-17 Inout	15.	:3	15	:9	17	<b>7</b> 15	15
Tao Lass Tolerance			•				
 20 0,22,3 00	±1.0	5.1z	=1.0	0.1=	=1.3	si.7	=2.0
22.0 to 25.0 dB	=1.0	±1.0	i	±1.0	±1.5	=2.5	±2.5
(השרוחות: Shielana)	100 .	1 <b>G0</b>	100	100	1 00	100	100
 (muminim 2:3 amA aoisiusuan)	53	55	55	63	53	35	<u>65</u>
Power Raing	1		ĩ ảmos	AC/DC, 58-90 Vo	KG, 1-60 HC		

N(T) (380-	:1.3	14.0	17.0	20.0	23.0	25.0	<u> 2810</u>	32.0	35.0
loior Doce -	1012	31273	UAVY	184005	Тан	DRAFED FAR	ಸರ್ಭಾಟ್ರ	910	JAEEN
nsemion Loss (de meximum)		-					-7	2	
Mat	. <del>.</del> .	3.7	1.3	1.4	1.2	1.1	Q.9	0.2	2.9
ia wea	-	3.7	1.8	1.3	1.1	Q.9	9.8	- <u>-</u> 0.3	0.3
100 MAI	T	74.0	2.0 -	1.4	1.1	0.9	9.9	5. <b>2</b> .	<b>0.</b> 9
	T	4.1	2,1	1.5		1.0	1.2	1.2	1.5
00 MH1	-	4.2	2	1.7		1.2	12	1.2	1.5
90 MR:	Ŧ	÷	2.5	1.3	1.7	1,2	: 3	12	1.5
TI Wei -	-	4,8	2.7	2.0	1 17	a, - :	) 14	1.4	1,4
100 MH:	7	2	: 5.1	2.2	. 1.7	1.6	1,5	1.6	i.ô
900 MMC			3.2	2,4	2.0	1.5		1.5	1.5
1550 MH:	-	4.9	1.5	3.1	2.2	1,3	:.3	1.3	i i i
วยหรือหรือ เรอเสเซก (dS สามากสายา)				1			-		
		: 8	20	28	35	15		÷C	1 -12
50 MAH1		25	20	25		37	40	:2	13
	-			- 22		1	35	-2	<u>ئ</u> د
		25			35	12	14	2	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
200 ABC	- 			21			33	- 20	11 40
520 //wb	· _		10	10	- 11	22	-	1.13	- 21
100 MP1	_					12		32	
	-	20	.3	· ģ	30				2
		3	: 2	13	15	-			

Egen envent querente change - « "Tour horde

<u>Coppy</u>



BOUTHEAST Morentas, 34 BOUTHWEST, comp. TV Alt 8 way tabslate wide popy

EAST Foomaway 10 WEST Samta Aca, CA ------

300-458-4524

300-27-2369

WICWEST, Rolling ()163 300-428-7596

300-433-3785

300-645-2238



## Distributi

15

System Passives - 750 MHz SCIENTIFIC-ATLANT:



Ordering Information

The section of the se

Ĩ

1-1-1-1-1-1 19 The Algorithm Control

ŝ.

Oraer No.	Mtg. Na.
SCI 204029	SAS2F
SCI 148725	SASSE
SCI 148725	SASJUF
SCI 204027	SADCar
SC: 148728	SADC125
SCI 148729	SADC167
SCI 148730	SAIF

### Specifications - splitters and directio Fraquency range Frequency response, cases equivalent, all ports Return toss, all parts 5-430 (v)-21 22 25 2 Hum moculation at 10 A 5-10 Mint 18 25 450-550 MHz: 57 28 58 Somet bassing Power inserter Frequency range Prequency recoonse, copie equivalent, all ports

netura toss, all ports	5-450 MHz 20
Hum modulation at 10 A	
Power passing	HOU-000 MH2: 67 dg 444
•	15 A, 50 VAC (Day 100100
	output port no more than 15A total

÷				_	_									
Meximum Insertion (ds)														
	=			⇒Ų		400 MHE		450	į	550	1	500		750
	<u>-</u>									141.12				MHE
		<u> </u>	1	3.7		3.8								
<u> </u>		5.7	1	5.7	1	= 2		_				<b>2</b> .3	1	4.5
3.8	t.	2.7		3.7			- <u></u>			<u> </u>	1	<u> </u>	1	7.2
£.3	-	5.7	1		- <u></u>		i 	_		4.3	İ	4.3	1	4.9
			_			5.3		<u> 6.0</u>	:	6.5	i	7,4		E.2
14	:													
0.7	1					<u>1.8</u>	!	1.7	1	2.0	÷	2.1		
							ļ.	1.2	1	1.5	1			2.4
				2.7	:	0.9	i	0.9			;		:	2.0
						2					<u> </u>	1.3		1.7
<u> </u>	Ì	Q.4	i	0.4	1			~ -						
								.U.C	1	0.6	1	5.0	i	1.2
	0.5 3.5 3.8 6.3	MH2   3.8   3.8   6.3   6.3   1.4   0.7   2.6 	MH2 MH2 3.8 3.7 3.8 5.7 3.8 5.7 5.3 5.7 1.4 5 5 0.7 7 0.9 1.6 0.7	MHz         MHz           3.8         3.7           3.9         3.9           3.6         3.7           3.8         3.7           3.8         3.7           3.8         3.7           3.8         3.7	MHz         MHz         MHz         MHz           3.8         3.7         3.7           6.3         5.7         5.7           3.8         2.7         3.7           6.3         5.7         5.7           1.4         1.5         1.5           1.4         1.5         1.5           1.4         1.5         1.5           1.6         0.7         0.9           1.6         0.7         2.7	MH2         MH2         MH2         MH2           3.8         3.7         3.7         1           3.8         3.7         3.7         1           3.8         3.7         3.7         1           3.8         3.7         3.7         1           3.8         3.7         3.7         1           1.4         1.5         1.5         1           1.4         1.5         1.5         1           1.5         3.7         3.7         1           1.4         1.5         1.5         1           1.5         3.7         3.7         1           1.4         1.5         1.5         1           3.6         3.7         3.7         1	MHz     MHz     MHz     MHz     MHz       3.8     3.7     3.7     3.8       3.8     5.7     5.7     5.9       3.8     2.7     3.7     3.8       6.3     5.7     5.7     5.9       3.8     2.7     3.7     5.9       1.4     1.5     1.5     1.6       0.7     0.9     2.9     1.4       1.6     2.7     2.7     0.9	MH2     MH2     MH2     MH2     MH2       3.8     3.7     3.7     3.8       3.8     3.7     5.7     5.8       3.8     3.7     3.7     3.8       3.8     3.7     3.7     3.8       3.8     3.7     3.7     3.8       3.8     3.7     3.7     3.8       3.8     3.7     3.7     3.8       3.8     3.7     3.7     3.8       3.8     3.7     5.7     5.9       3.8     3.7     3.7     5.9       1.4     1.5     1.5     1.6       0.7     0.9     0.9     1.1       1.6     3.7     3.7     0.9       1.4     1.5     1.5     1.6       0.7     0.9     0.9     1.1       1.6     3.7     0.7     0.9       0.3     0.4     0.4     0.4	MH2         M14         M2         M2	MH2     MH2     MH2     MH2     MH2     MH2     MH2       3.3     3.7     3.7     3.8     4.0       3.3     5.7     5.7     5.9     6.0       3.3     5.7     3.7     3.8     4.0       3.3     5.7     5.7     5.9     6.0       3.4     3.7     3.7     3.8     4.0       3.3     5.7     5.7     5.9     6.0       3.4     3.7     3.7     3.8     4.0       3.3     5.7     5.7     5.9     6.0       3.4     3.7     3.7     3.8     4.0       3.6     3.7     3.7     3.8     4.0       3.7     3.7     3.8     4.0       5.3     5.7     5.7     1.5     1.2       1.4     1.5     1.5     1.6     1.7       0.7     0.9     0.9     1.2       1.6     3.7     3.9     0.9       1.6     3.7     3.9     0.9	MH2     MH2     MH2     MH2     MH2     MH2     MH2     MH2     MH2       3.8     3.7     3.7     3.8     4.0     4.3       3.8     3.7     5.7     5.9     6.0     6.1       3.8     2.7     3.7     3.8     4.0     4.3       3.8     2.7     3.7     3.8     4.0     4.3       6.3     2.7     3.7     5.9     6.0     6.1       1.4     1.5     1.5     1.6     1.7     2.0       0.7     0.9     0.9     1.3     1.6     1.7     2.0       1.6     2.7     0.9     0.9     1.3     1.6	Maximum_insertion loss (dB)         5       30       50       400       450       560         MH2       MH2       MH2       MH2       MH2       MH2       MH2       MH2         3.5       3.7       3.7       3.8       4.0       4.3       1         3.3       5.7       5.7       5.9       6.0       6.1       1         3.8       2.7       3.7       3.8       4.0       4.3       1         3.8       2.7       3.7       5.9       6.0       6.1       1         3.8       2.7       3.7       5.9       6.0       6.5       1         1.4       1.5       1.6       1.7       2.0       1	Maximum_insertion loss (d5)         5       30       50       400       450       560       500         MHz       MHz       MHz       MHz       MHz       MHz       MHz       MHz         3.5       3.7       3.7       3.5       4.0       4.8       2.3         3.3       3.7       3.7       3.5       4.0       4.8       2.3         3.3       3.7       3.7       3.8       4.0       4.8       2.3         3.3       3.7       3.7       3.8       4.0       4.8       2.3         3.3       3.7       3.7       3.8       4.0       4.3       4.3         3.3       3.7       3.7       3.8       4.0       4.3       4.3         3.3       3.7       3.7       3.8       4.0       4.3       4.3         3.3       5.7       5.7       5.9       6.0       6.5       7.4         1.4       1.5       1.6       1.7       2.0       2.0       2.0         0.7       0.9       0.9       1.3       1.3       1.3       1.3         3.3       0.7       0.7       0.9       0.9       1.3	Maximum_insertion icss (dB)         5       30       50       400       450       550       500         MHz       MHz       MHz       MHz       MHz       MHz       MHz       MHz         3.3       3.7       3.7       3.8       4.0       4.3

Soutters		!					Minin	um.	soiat	ion	tao-to							
SA 82F	2-wav	 j	25		30													
SAGOF	3-way palanci	ec i	23	r					27		27	!	27		27	i		
SABOUF -	3-way unbalance	ec :		<u> </u>	- 25		25		25		25	!	25		25		25	
			25		30		30	;	28	ļ	28	<u>-</u> -	25	<u>-</u> -				
Directional cou	Olers	<u> </u>			3		25		25	1	25				26			
S.4003F	5.5													<u> </u>			23	
SADCIEF I	12.0		18			1	23	i	22	!	23							
SACCIER	1.2 -	<u> </u>			27		27		27						20		20	
ower niemer		·	20	·	30		30	;	30		 30	- <u>-</u>	26	:	24	2	24	
5415 1													28	;	26		25	
			-5		• -		-0											
										:	55		51	i.	51	1	50	



SCUTHELST, Moranoos, SL SCUTHWEST, Marg. TX

300-433-3785 300-543-2288

EAST, Rockaway (10 17857 Carta Aral-CA

MIOWEST Roth-300-428-7596

300-458-4524

800-227-2869





## 1GHz Directional Couplers REGAL

## Worst Case Performance Specifications

Frequency MHz;				1			
	. 5-10	( 10-50	50-300	366-400	400-500	500-500	
insertion Loss (dS maximum)				· · · · · · · · · · · · · · · · · · ·			800-900
FLDC10-8	2.5	2.4		22			
FLD010-12	2.0	1.3		2.2	2.3 <del>-</del> . 1	2.2	
RLD010-16	1.7	1.6	2.0	<u>2</u> )	2.4	2.5	1.3
Return Loss (dS minimum)		1.0	2.0	2.1 479	2.4	2.5	2.3
RLD010-8	15	15	Ξ			• •	
8LDC10-12	15	15		17	20	13	17
RLD010-16	15	1	15	18	22	13	17
soizuon (25 minimum)		15	17	18	20	13	17
RLD010-8	D 25	30			2		
> 812010-12 ≠	28		23	27	24	21	15
312010-15		28	23 -	127	25	23	. <u>э</u>
אווי Shieleing (dB הוחוהוה)	25	25	27	27	27	2-	19
um Moculation 10 Amg (d3 ສາຄະສິແສ)	100	100	100	100	100	100	100
ower Azing	55	55	<del>3</del> 0	50	60	60	50

## Nominal Performance Specifications

Prequency (IV(Hz)	5-10						
Tao Loss (CS maximum)			E0-300	300-400	400-500	500-500	BCO-800
- RLDC10-8	3.3	3.3					
RED 01 0-12	13.0	-	- 3.3	8.3	2.3	<del>-3</del> .3	Ξ.3
FLDC10-16		13.0	12.5	12.5	1.5	12.5	12.5
LOSS tolerance	17.5	.17.3	17.5	17.0	17.0	17.5	175
1033 (016: 3:103 108:7108 (2003	±1.0	=1.0	±1.0	=1.S	#1.0	#1.2	z:1
P10010-6	1.3		_				
PL1010-12			2.1	2,0	2.0	2.0	2.3
PLOCER-RE	1.3	1.3	1.4	-		1.3	
		••		1 <u>2</u> (		4	:

#### Ordering Information on Page

	- I I	rages	H5,	-H59

901 <u>7</u>	SOUTHEAST Marcross GA SOUTHWEST rowing, TX	300-420-3755 300-645-2235

	Rooxaway, Cu	4 <u>52 - 58 - 52</u> 4
1/227	Santa Arta, CA	300-227-2259

14:01/557 Pownę 800-423-7536



1GHz Line Splitter REGAL

## Worst Case Performance Specifications

Frequency (MHz)		e - Resie						
insemion Loos (08 meximum)	- E-10 	10-E0	; 50-3 <b>0</b> 0	300-400	i 400-500			
Raturn Loss (dB minimum)		4.2	4.6	1 4.5	/ -00-300 / 5.0	300-300	200-200	900-1000
isolation (aB minimum)	16	13	19	20		5.2	E.4	5.7
Sivil Shisiqing (a8 minimum)	2:	23	25	- 25	20	- 31	17 +	16
Hum Medulation 10 Ame ids minimum)	100	100	100	100	23		20	18
Power Rating	55	35	60	60	100	100	:00	100
			12		60	60	60	50 50

Frequency (MHz) Insection Loss (d8 maximum) poins 2,3	5-10	10-60	50-300					
	-, 6.0 -,	1 8.0	3.2	300-400	-06-500	5Q0-6Q0	800-900	
eort 4 Ratum Loss (38 minumum)	4,4	4.3	4.3	-3.4	â.5	8.7	i <u>3.0</u>	900-100
រានរាចក (ភ្នំទូ ការការការ)	10,	18	13	4.8	5.2	3.4	5.7	9.2
vil Shleiding (dS minimum)	- 22	25	23	20	19	13	:7	5.0 18
Moculation 10 Ama (35 minimum)	100 🔍	100	100	21 100	20	20	19	12
wer Saong	53	55	- 50 <u>1</u>	50	100	1 00	100	100
	1		12.10				50	50

Frequency (MH2)	E 10		A-51 (1 - 41 ) - 4					
insertion Loss (CS maximum)	5-10	10-50	50-300	300-400				
Return Loss (48 minimum)	6.5	5.5	7.2	7.3	400-500	500-500	500-900	900-1000
solation (CS) استنشاق	16	17	17		7.5	7.5	1.8	1 8.2
All Smalding 12 grinning:	18	23	23 -	18	17	17	15	i.
ាក់ (ការគោហាត Eo, official of constantion)	100	100	1	21	20	20	15	15
mo cE משמעות (מעמיי אי מטאיי) Swer Rating	55		100	100	100	:00	. <del></del>	iā •
			50	30	50 <sup>[</sup>		100 :	100
earl cowons sucrea: to change writtop: notice			12.47	TIOS ACIDE AN.	-90 Volta 1.80 -	<u>- 50</u>		50 ·

12 Ames AC/DC, 50-90 Velts, 1-60 Hz

Ordering Information on Pages H57-H59



1000-100-1785 1000-100-1785 1000-100-1785 1000-100-1785 1000-100-1785

EAST Rocksway NJ 300-458-4524 NICWEST Forth WEST Santa Ana. CA 800-227-2969 300-428-7586

HSC

MCWEST Folling Meacows

Distribution Product

# Model 6940 Optoelectronic Node - 5-42/54-870 MHz

Block Diagram



# Model 6940 Optoelectronic Node - 5-42/54-870 MHz

## Optical Section Specifications

Vavelendth				
Dolical Indu: Rande	n	1310 and 1550	1310 and 1550	1
Pass Band		-3 to -2.0	-3.0 to -1.0	1
requency Response	MHE	52-870	52-870	
ili (=1 5 dB)	d5	= 0.75		
ptical (nput Test Point ( = 20 %)	d5	1	= 0.75	1
	V DC	1V/mW	U	
F Output Level	dE	- 20	1V / mW	2
	aBmy	See Charl Below	- 20	
		1 Gee Shar below	See Char, Below	2

## Receiver RF Output Level Vs Transmitter OMI



## Notes for Optical Section Specifications:

- For forward receiver module only. Does not include frequency response contributions from forward optical transmitter. Referenced to optical input power in milliwatts at 1310 nm
- Minimum receiver RF output level for the stated transmitter percent Optical Modulation index (OMI) per channel, with receiver optical input power of 0 dBm. To determine RF output levels at other potical input power ladd for subtract 0 dB in RF level for sach 1 dB

For reverse optical transmitter and link performance, see the "Analog Reverse Optical Transmitters for Model 5940/6944 and GainMaker™ Coldelectronic Stations" sata sneat or the "Wodel 6940/44 odr" Digital Peverse

## Uniess otherwise indred, the above specifications reflect typical station deformance at stated reference levels in the recommend Derating configuration (s). Unless otherwise noted, specifications are based on measurements made in accordance with NCTA Perommended Practices for Measurements on Cable Television Systems using standard frequency assignments and are referenced **2**08

## ZHM 078-42/24-8 - sboN pinottosleotqO 0468 IsboM

## RF Section Specifications

٠

e

Es 6 1 En 210 C 217 R F 15 75 .	82	D8-	05-	
Sb f ≤, sinic⊂ ;seT ∃S ismenin	50	02-	55-	
AST B Roverbow mur	Ec Br	(ZHW028-191709 (ZHW091-79) 98	35	
-um Modulator 🕃 12.	35	99	99	
<u> جازیاری 1056</u>	Ec		÷.	
eovTheiniomA		346	ے SF اللہ الے ا	
DUPCSSE	EHW	013-46	2773	

rebis ngirt) hebho bricbed letileochiod	90	99	9 1
neusiuboli seat	90	* 09	9
JESE SIGNT STROCTIO	99	- 94	9
(enalité Second Dater (high side)	36	5 <u>7</u> -	g
רפצג אוספטופטטה	32	<u>19</u>	ç
isaE aldn <sup>-</sup> ajisodmo(	8P	59	9
(ebis rigid) to and the side (high side)	BD	£2	ĉ .
noteluboMi seot.	9p	<u> </u>	9
ise6 elan Tetizoqmo.	9P	٤٤	9 :
(ZHM 076-35) ili induC sonshsis	99		
IW 99. •		32	
220 W		2127	
IW 029		<del>77</del> 5	r
IW 094		1°97 J	
076@ stevel rudruC sonerete	Vm8b	19×2 911×	
{W 79		19,51	
IN 099		<u>6</u> .67	
		973 L	
N 076 - Grengifiero	BD		5
(Sb C.: =) IIIT is ner	 EF	= ĉ	<u> </u>
asucosey Aduanda.	50	<u> </u>	
	80	92	 च
			-

	51	91	85 I	2 DAB 1 AQUISOQ 18VIBD85
,				

# Model 6940 Optoelectronic Node - 5-42 54-879 MHz

## RF Section Specifications Contin

.

<u>denan da nomenan</u> Malendo Federal	<u> </u>		er jähen dierer
		- 2	
elerence Dutou: Levelo S E and 42 Mez		 	
	25.7	· · · · · · · · · · · · · · · · · · ·	1 7 7 6
지나다이에는 이번에는 구도와			
oss Modulation		 	
modovie Second Crae		 	

-molifier Type		
Coeralional Sain - minimumi		
	138	

	*				
55.25 - 58 83 61.25 - 64 83 67.25 - 70.83	16	 50.01			
61.25 - 64 83		 33-05		30	
67.25 - 70.83		 <u> </u>	r		
		80.95			
		37.5 - 39.3			
		39.0 - 40.5			
		. 40 5 . 47 5		19	
		 · · ··································		27	



n egy kommung verkel fremslam. Det i de ford lehem in de hig proken om sokar in sokar energe ellektion mener moeg Terrem Forder for en in de forder de forder de forder sokar in sokar in forder forder ellektion mener kommunge Terrem Forder forder in de forder in freme forder de forder sokar in de forder elle forder ellektion freme sokar

æ

.

-

## Model 6940 Optoelectronic Node - 5-42/54-870 MHz

## Specifications

Max 40 Through Current (continuous	Amos	1	15		i		
Max 40 Through Current (surge)	àmps		25				
Launch Amolifier with 5 PHD hybrids	Amos	2.4		-			
Solical Interface Soard	same	0.22	· ·	-	1		
5940/44 Status Monitoring Fransbonder	i mas	515		-			
6940/44 Standard Dotical Receiver	- mos	0.25	0.01	0.035	1		
6940/44 High Gain Optical Receiver	≙mos	0.35	0.00	1 0.035	1		
5940/44 Optical Transmitter-Standard Gain FP	-mos	1 (14	-	0.07			
5940/44 Optical Transmitter-Standard Gain DFB	Amos	1 014	-	0.09	1		
6940/44 Reverse Switch	Amos	0.02	-	-			
	-			-			
Power Subbly DC Current Rating	Amos	4,5	0.5	1.0	1		
Power Supply Operating Efficiency	%		·····	· • • • • • • • • • • • • • • • • • • •			
AC Input Low Voltage Cutoff	I., VAC	33					
Minimum Restan Voltage	V AC		41		1		

										-			
2		•											
1 Std Receiver & 1 DFB or FP	3.16	AC Current (A)	1.3	1.4	1.4	1.4	1.4	1.5	1.7	1.8	1.9	2.1	2.4
Transmitter	50	Power (W)	91	91	90	90	90	90	30	90	- 	91	92
2 Std Receivers & 2 DFB or FP 3.55 Fransmitters	3.55	AC Current (A)	1.4	1.5	î.5	1.5	1.8	1.7	- 19	2.0	2.2	2.4	2.7
	Power (W)	103	103	162	762	102	102	102	102	103	103	104	

Data is pased on stations configured for 2-way operation with status monitor transponder. AC currents specified are pased operation with status monitor transponder. AC currents specified are pased operationents made with typical CATV type ferro-resonant AC power subply (oversidoal), and standard version BC power subply (on 590902)

.

ţ

The total DC power consumption of installed components should not exceed the power supply DC current rating.

			···		······································		
	c						
Coerating Temperature Range		:	degrees	1	-40°= to 1	40°F (-40°C to 60°C)	
E Felative Humicity Pange		:	percent			5% to 35%	

Station with 1 RX 1 TX 2 power supplies: 37 lbs /16 8 kg

Note:

# Model 6940 Optoelectronic Node - 5-42/54-870 MHz

## Ordering Information – Cont'd

0 dB (jumper)	591024
1508	590986
30d8	590987
4.5 dB	590988
6.0 dB	- 590989
7.5 dB	590990
9.0 d8	590991
10.5 dB	590992
12.0 dB	590993
13.5 dB	590994
15.0 dB	590995

65

С

1.5 dB	590010
3.0 dE	591011
4.5 dB	1 591012
6.0 dB	591013
7.5 dE	591014
9.0 dE	591015
10.5 dE	591016

0 dE (jumper)	591056
1.5 dB	591057
3.0 dB	591058
4.5 dB	591059
6.0 dE	591060
7.5 dB	591061
90dE	591062
10.5 dB	591063
12.0 d5	591064

C

4

42

2

Scientific Adantal the Scientific-Atlants logo, and Prisma are registered trademarks of Scientific-Atlantal, no. GainMaker is a trademark of Scientific-Atlantal, no. por is a trademark of Scientific-Atlantal, inc. Specifications and product evailability are subject to change without notice.

•

: 2001 Scientific-Atlanta (Inc. All agats reserved

Scientific-Atlanta, inc. 1-806-722-2009 pr 770-206-5400 www.scientificatiante.com

748567 ReV B June 200<sup>7</sup>

## is a farmer is and

## Multimedia Stretch<sup>™</sup> Taps

#### ption

c-Atlanta's Multimedia Stretch<sup>™</sup> Tao is designed to the delivery of advanced applications and services in fective platform. In addition to providing high quality trmance specifications that are essential to the reliable sion of data and digital video services, the Multimedia Tap includes the capability to house other ance-enhancing options. As an example, we have ed and field-tested a version of the plug-in directional that cost-effectively balances reverse path signals ) in a marked performance improvement in this ung portion of your networks. Recently completed is essable version of the Multimedia Stretch Tap e that introduces significant operating cost savings / revenue-generating opportunities.



Vstem upgrades, operators are challenged to quickly install new equipment while minimizing the impact on illicing taps is a time-consuming process complicated by a widened gap in the feeder cabling. Scientificumedia Stretch Tap features a nine-inch housing that fills this gap—without using costly or performance () extension connectors—providing operators with the fastest way to restore service and complete upgrade efforts.

#### es

int-pending Connection-Beam AC/RF bypass switch, providing interruption-free service to downstream dustomers ing faceplate removal

splate-confined circuitry isolates and simplifies maintenance efforts

Port power activation and protection, maximizing cost and sustemer service effectiveness

Hinch housing, simplifying system upgrades

eclate reversibility, eliminating costly re-splicing

-in directional coupler, enabling field modification without costly resplicing -

lable in 2- 4-, and 8-way versions

spatible with aerial or pedestal mounting

lable space for future enhancements

able powder paint coating for superior environmental protection

#### edia Stretch Tap

Imedia Streton Tap also provides an important level of nervory flexibility by enabling reversibility. As oberators he fiber optic portion of their broadband networks, the result o often a reversal of the feeder signal flow. By Tanging the prientation of the plug-in directional coupler module, technicians can avoid time consuming and e resolicing of the caple.

eplacing the on-board device, operators are able to mobify tapical user-again without costly resplicing.

organtly, Scientific-Atlanta's Multimedia Streton Tablis designed for the future. Our engineers have maximized space in the device to allow for adding future advanced features

## Multimedia Stretch Tap Way

	·	:							Тас .	/alue									_
	Freq	1	đŝ	: 3	5 <u>2</u>		зÊ	1.	зĒ		i E		dΞ		đĒ				
	MHE	lulean	Max	Wean	Mex	Maar	Nav	: Mean	- Max	Mear	, iviax	·		- Miean			33		38
insection Loss	1	-	-	3.45	3.6	1.91	, 2.2	1.16	1.5	0.85	1.2	0.76		:	·	Mear.	Max	Mean	Ma
(d 3)	40	-	-	3.18	3.5	7,47	17	0.87	1.2	0.50	1.0		1.1	C.76	1.1	0.78	1.5	0.76	1.
	50	-		3.20	3:5	1 47	1.7	0.8T	12	0.61	1.0	0 49	1.0	0.50	1:0	0.50	1.01	0 50	1.
	450	-	-	4.13	4, 2	2.25	2.7	1.34	1.9	1.39	1.3	0.49	1.0	G.49	: 1.0	0.49	1:0	0.49	. 11
	550		-	4.00	1   :4.2	, 2.36	28	1.73	2.0	1,49		1.19	-1,4	1.22	1:4	1.22	1.4	1.22	1.
	750	-		3.69	4.4	2.40	3.3	1.32	2.2	1.60	1:8	1.25	1.5	1.30	1:5	1.30	1.5	1.30	1.1.
	870	i	-	3.97	47	2.55	3.3	1.97	7.3	1.78	1.9	1.34	1.5	1.38	1.18	1.38	108	1.38	1.
	1000	-	-	4.57	5.1	2.36	3,4	1.99	.2.4	1.78	2.0	1.43	1.8	1.46	1.8	1.46	1.8	1.46	1:1
Tad Loss	5	4.98	5.0	7.76	:3.0	111.39		13.79		·		1.36	-1.19 -	1.35	·i .9	1.35	7.9	1.35	1.3
(48)	40	4.31	5.0	7.40	9.0			i þ	15.0	16.66		15.87	.21.0	22.71		25.87	.2.70	29.27	30.
(Max tolerance						11.45	12,0:	13.84	15.0	16 48	18.0	19.89	21:0	22.60	24.0	25.65	27:0		t inge tige
	50	4.10	5.0	7 40	:9:C	17.44	12.0	13.82	15.0	16.43	18.0	19.86	21.0	22.58	- 24.0	25.64	27:0	28.92	30.
=1 dB)	450	4.79	5.0	7.95	9:0	11.31	12.0	13.66	15:0	16,74	18.0			1	ti në t		99 - E	28.90	30.
	550	4.44	5.0	8.10	S:C	11.24	12.0°	13.63	15.0	16.84			1			25.27	27.0	28.29	30.
	750	4.55	5.0	8.40	9.0	11.50	12:0	1 1	15.0				21:0	22.06	24.0	25.29	27.0	28.20	30.(
	870	4.87	5.0	.8.48	9.5	11.59	111. C			16.94	- 1 - L - L - L - L - L - L - L - L - L			22.50	24:0	25.01	27.0	28.74	30
	1000	4.97	5.5	_			12.5	13.92	15.5			19.87		22.90	24:0	25.55	27.0	29.23	30
Return Loss	5			8.56	9'5	11.17	12.5	13.57	15.5	15.39	18.0	19.56	21.0	22.65	240	26.37		28.96	30.
	2	1:		14	-	12	1	1		14	<u> </u>	14		1:		- 14		1.	11 m i
d3, min)	10	14	4	15		15		18	5 😁	15		15		15		1		1.	4
	50	15	5	15		0 15		15	5	15		15				15		13	5
	750	15	5	15		15	:	13		15				15		15		1 5	5
frank strainer	370	15	5	15		15		15			ŀ	15		15	·	15		15	5
	1000	15		14	-	14				15		15	[	15		15	İ	15	
ap-to-Tap	5 1			18				14		< 15 		15		15		15	ĺ	15	;
olation	750	18				18		• 18	-	18		18		18		18		18	
	750			18	7	18	.	18		18		18		18	ĺ	18			
(B.min)	1000	18		18		18		18		18		18		18		- 18		18	
ut-io-Tap	5	•		18		20		20		22								18	
olation	750	-		18		20		22			1	25		25	Ì	. 35		35	
	1000	-		18						22		25		25	i	35	1	35	
·····		-1		:0		- 20	į	22		22	l l	25		-25		35	į	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	ModelNumber	Part Number	
Complete Tap Assembly	SAT ST2-4 SAT ST2-9 SAT ST2-11 SAT ST2-11 SAT ST2-17 SAT ST2-20 SAT ST2-20 SAT ST2-20 SAT ST2-20 SAT ST2-20	562732 562733 562734 562735 562736 562737 552738 562738 562739	Description Multimedia Streton Tap 2- Way 4 dE Multimedia Streton Tap 2 - Way 8 dB Multimedia Streton Tap 2 - Way 11 dB Multimedia Streton Tap 2 - Way 14 dB Multimedia Streton Tap 2 - Way 17 dB Multimedia Streton Tap 2 - Way 20 dB Multimedia Streton Tap 2 - Way 20 dB Multimedia Streton Tap 2 - Way 20 dB
Faceciate Assembly	547 577-2	562740	Wuitimedia Streton Tap 2 - Way 29 dB
Directional Coupler Module	5AT STM2-0 SAT STM2-1 SAT STM2-1 SAT STM2-10 SAT STM2-10 SAT STM2-10 SAT STM2-19 SAT STM2-22 SAT STM2-25	583542 543487 562108 562109 552110 562111 562112 562113 552114 582115	Multimedia Stretch Tab. 2-Way Faceblate Assembly Multimedia Stretch Tab Module 0.55 ( Multimedia Stretch Tab Module 4.85 ( Multimedia Stretch Tab Module 10.58 ( Multimedia Stretch Tab Module 10.58 ( Multimedia Stretch Tab Module 16.58 ( Multimedia Stretch Tab Module 16.58 ( Multimedia Stretch Tab Module 19.55 ( Multimedia Stretch Tab Module 25.58 ( Multimedia Stretch Tab Module 25.58 (
# Multimedia Stretch Tap

1 Way

			facivalue														
	Frec	ē :	38	, to dê		. 74	3Ē		ćΞ	20	ΞΞ	23 de -		25	35	. 25	36
	MHE	Mean	Max	Melan	Max	Mean	Max	Mear	Mar	Mean	ស្រុនរ	Mean	Max	Mean	Mex	Niean	: Max
Insection Loss	5	-	-	3 45	3.8	1.91	: 2.2.	1.16	1.5	; 0.35	1.2	075	1.1	: G.76		C.75	÷
( <b>d</b> 5)	40	-		3.18	3.E	1.47		0.67	: : :::2	0.50	1.0	0.49	1.0	0.50	1.0	0.50	1
	5C	-	-	3.20	3.5	1.47	1.7	0.87	1.5	0.51	5.0	0.49	1.0	C.49	1.0	C.30	1.5
	45C	-	-	413	.44	2.29	2.7	1.64	1.5	:.39	1.8	1.19	1.4	: 22	1.4	1.22	1.0
	550	-	-	4.00	4.2.	2.36	2.8	1.73	2.0	1.49	5.F	1.26	1.5	1 30	1.5	1.30	1.5
	750	-	-	3.69	4.4	2.40	3.3	1.82	2.2	1.60	g	1,34	1.3	1.38	1.8	1.38	1 1.8
	870	-	-	3.97	:4.7	2.55	3.3	1.97	2.3	1.78	12.0	1 43	1.3	1.46	1.5	1.46	5.7:
	1000			4 57	5.1	2.36	3.4	1.39	2.4	1 78	2.2	1.36	1.9	1.35	1.9	1.35	1.0
Tap Loss	5	a.15	: <b>9</b> .0	10.86	:12.0:	14.18	16.0	16.57	18.04	19.95			23:5	. 25.70	25.5	28.70	
c3)	40	7.58	9.0	10.58	12.0	14.57	∺‡6.0	17.03		19.57	Z1.0	23.05	22.5	25.82	25.5	28.31	29:
Max tolerance	50	7.38		10.58	12.0	14.55	16.0	17.02		19.63	1	23.03	23.5	25.80	26.5	28.30	
=1 d8)	450	7.86	9.0:	11.11		14.51.		16.75	1:8:0	20.00	21.0		23.5	25.57"   25.57"	26.5	28.62	29.
	550	7.56	is.o.;	11.38	12.0	14,43	16.0	16.72		20.27		22.59	23.5	25.52	25:5		29.
	750	7,74	9,0	11.72	12.5	14.30	160	15.76		20.24	P :	22.25	23:5	25.57	25.5	28,61	29:
	870	8.12	9.5	12.27	13:0	15.04					21.0	22.37	24.0	Į.	27.0	29.12	. 29:
	1000	8.73	S 5	<u>;2.44</u>		15.18				l l	1		24.0	26.31		29.66	30.0
Return Loss	5	1.	4	1.			2	14		1.		1.	:		4	30.04	30.
(d8, min)	10	1.	4	1			4	-		1		1					4
	50	1:	5	<del>e</del> : 1			5	15							5	1	5
	-750	1	- 	1			5			1:		1			5	1	5
	870	15		1				15		1:		1		1	5	1	5
*	1000	1.5	i				5	• 15	1		5-	1	5	:	5	1	ā
				1.		_	5	14	1	1-	1	1-	4	4	5	1.	4
ар-ю-Тар	5	18	3 :	16	6	1	6	18		18	3	18		1	8	1	8
solation	750	18	3	18	3	1	з	18		18	3	, <sup>0</sup> 18	3	1	8	1	3
a8.min) 	1000	18	2	18	3	1	8	18	4	18	3	18	3	1	в	18	
Dut-to-Tap	5	-		10	·····	2	, 1 C		2			25		2			
solation	750	-		18	3	21	i	22		25	i.					3	
	1000	-		18		2		22						3	]	. 3	
	1				· į	2			•	25		25	:	3	5	т <u>з</u>	5

ł

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

Product	Model Numbe	r Part Nur	nber Description	
Complete Tap Assembly	SAT ST4-8 SAT ST4-11 SAT ST4-14 SAT ST4-17 SAT ST4-20 SAT ST4-20 SAT ST4-20 SAT ST4-20 SAT ST4-20 SAT ST4-20	562742 562743 562744 562745 562745 562745 562745 562745 562749	Multimedia Stretch Tap 4 - Way 8 dB Multimedia Stretch Tap 4 - Way 11 dS Multimedia Stretch Tap 4 - Way 11 dB Multimedia Stretch Tap 4 - Way 17 dB Multimedia Stretch Tap 4 - Way 20 dB Multimedia Stretch Tap 4 - Way 20 dB Multimedia Stretch Tap 4 - Way 20 dB Multimedia Stretch Tap 4 - Way 20 dB	
Faceblate Assembly	SAT STF-4	563343	Munimedia Stretch Tab 4 - Way Faceblate 4	
Sirectional Soupler Module	SAT STM-0 SAT STM-4 SAT STM-7 SAT STM-10 SAT STM-13 SAT STM-16 SAT STM-19 SAT STM-22 SAT STM-25	543487 562105 562109 562110 562110 562111 562112 562113 562114 562115	Multimedia Stretch Tap Module 9 dB Multimedia Stretch Tap Module 4 dB Multimedia Stretch Tap Module 7 dB Multimedia Stretch Tap Module 10 dB Multimedia Stretch Tap Module 10 dB Multimedia Stretch Tap Module 19 dB Multimedia Stretch Tap Module 22 dB Multimedia Stretch Tap Module 25 dB	

# Multimedia Stretch Tap ^ Way

	·····	Тар: Иание													
	Frec.	11	đE	1.	αĒ	-, -	53	20	σΞ	23	33	26	¢B	29	aŝ
	WHE	Mean	Max	Mean	Max	Mean	Max	Mean	Miax	Mean	Max	Mean	Max	Mean	Max
Insection Loss	5		-	3.45	3.5	1.91	1 2.2 -	1.18	1.5	0.85	1.2	G.76	1.1.1	0.76	1.1.1
d 3 :	40			3,18	3.5	1.47	1.7	0.37	12	C 60	1.0	0 49	1:0	0.50	1_0
	50	-	-	3.20	3:5	1.47	1:7	0.87	1.2	0.51	1.0	0.49	1.0	0.49	1.0
	450	-		4,13	4.4	2.29	2.7	1,51	1.3	1.39	5.5	1.19	1.4	1.22	1.4
	550	-	-	4.00	4.2	2.36	2.8	1 73	2.0	1 49	11:8 J	1.25	1.5	1.30	1.5
	750	-		3.69	4.4	2.40	3.3	1.82	2.2	1.60	1:5	1.34	1.8	1.38	1 1.8
	870	-		3.97	4.7	2.55	3.3	1.97	12.3	1.78	2.0	1.43	178	1.45	1.8
	1000	-		4.67	51	2.36	3.4	1.39	2 -	1.78	2.2	1.36	19	1.35	1.9
Tap Loss	; 3	11.34	12:0	14.50	1:5.0	17.71	19.0	20.21	.21.0	23 43	<sup>11</sup> 24.0	26.13	27.0	28.93	30.5
(d 5)	40	10.34	12.0	13.91	15.5	17.82	19.0	20,34	21.0	22,79	24.0	26.16	27.0	29.07	30.5
(Max toierance	50	10.62	1.2.0	13.90	15.5	17,79	.19.0	20.31	.21.0	22.80	24.0	26.20	27.0	29.06	30.5
=1 dB)	450	11.07	1:2:0	14.56	15.5.	17.77	1:9:0.	20.16	2110	23.28	24.9	25.95	27.0	28.87	1:30:5
	550	11.17.	12.0	14.85	15.5	17.95	19.0	2C.24	21.0	23.53	24.0	25.96	27.0	28.84	30.5
1	750	11.23	1,2.5	15.55	16.5	18.52	19:0	20.44	21.0	23,94	240	26.28	27.0	29.25	30.
	870	11,37	13.0	16,18	17.0	13.96	20:0	20.92	22:0	24.53	25.0	26.78	:28.0	30.08	314
	1000	12.35	12.5	16.34	17.5	19.05	1:20:0	21.08	22:0:	24.48	25.0	27.06	122.0	30.48	313
Return Loss	5	1	4	1	4	1	2	1	4	1	4	1	4	1	4
(dB, min)	10		4	· 1	5	1	5	1	5	1	5	1	5	1	5
	50		5	1	5	1	5	1	5		5	-	5	1	Ē
5.	750	1	4	1	5		5	1	5	.	5	1	5	1	5
	370		5		5		- 4	-	5		5		5.		5
	1000		5	1	4		4		4		ے د		4	i i	4
	: 5	1	5	1	8	;	<u>a</u>	1	8		8	1	5	<u>i</u>	6
Isolation		}	8	1	8	1	8	1	8		8		8		
	750		8	1	8.	1	8		0 8		8		8 -		8
(d5,min)	1000	<u> </u>		1	1					1			<u> </u>		8.
Cut-to-Tap	Ĵ	1	-	1 7	.0	1	2	1	5 -	1 3	5		35		:5
Isolation	750		-	2	:C	2	2	2	5	2	25	3	35	1 3	15
	1000		-	2	0	2	-	2	5	2	15		25		5
	1	1		1		1		1		1		)		1	

The Multimedia Streton Tap consists of a nousing 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	<ul> <li>Model Number</li> </ul>	Part Number	Description
Complete Tap Assembly	SAT ST8-11	56275	Multimedia Stretch Tap 8- Way 11 dB
	SAT ST8-14	562752	Multimedia Stretch Tap 8 -Way 14 dE
	SAT 378-17	362753	Multimedia Stretch Tap 8- Way 17 dB
	SAT ST8-20	362754	Multimedia Stretch Tap 8- Way 20 dB
	SAT ST8-23	562755	Multimedia Stretch Tap 8 - Way 23 dB
	SAT ST8-25	562756	Multimedia Stretch Tap 8 -Way 26 d5
	SAT ST8-29	562757	Multimedia Stretch Tao 8 -Way 29 dB
Faceblate Assembly	3AT 3TF-8	5635-44	Mummedia Siteton Tap 8 - Way Paceplate Assembly
Directional coupler Module	SAT STM-0	543487	Mummedia Stretch Tap Module 0 dS
	SAT STM-4	562108	Multimedia Streton Tap Module 4 dB
	SAT STM-T	562109	Muttimedia Stretch Tap Module 1 dB
	SAT STM-10	562110	Muitmedia Stretch Tap Module 10 dS
	BAT STM-13	562111	Muitimedia Stretch Tap Module 13 dB
	SAT STM-16	562112	Multimedia Stretch Tab Module 16 d5
	SAT STM-19	562113	Mummedia Stretch Tap Mobule 19 dE
	SAT STM-22	562114	Mummedia Streton Tap Module 22 dB
	SAT STM-25	562115	Multimedia Streton Tap/Module 25 dB
-	·		

Other Stretch Tac Accessories

<sup>i</sup>S

DC/EQ Plug-in modules
 Addressable Muttimedia Streton Tabs
 Multimedia Streton Tabs with Teonnician Access

Scientific Atlanta Multimedia Streton is a trademark of Scientific-Atlanta, inc. Scientific-Atlanta and the Scientific-Atlanta logo are registered trademarks of Scientific-Atlanta, inc Specifications and product availability are subject to change without holide 1, 1999 Scientific-Atlanta, inc. All rights reserved.

Scientific-Atlanta, Inc. 1-800-702-2009 or 770-903-5900 <u>www.sciail.com</u>

Part Number 371710 Rev D. December 1999

ರು



1 GHz Passives





# MECHANICAL SPECIFICATIONS

5.5 in. W x 4 5 in. H x 3 in. D 139.75 mm W x 114.3 mm H + 18 2 mm D

# Bolt Torque Requirements

- Canter conductor salqure 15 (A. Ib. to 20 (A. Ib.
- Housing closure
- 50 m. ib. ic 60 m. p
- Port piuas
- E0 in. Ib to E0 5
- Cannector auli-out
- 100 ib min

# FEATURES

- industry-leading insertion loss specifications reduce amplifier requirements
- Unique, patented AC bypass coil provides superior hum modulation performance, important in advanced, high current networks

- Superior return loss specifications enable more reliable transmission of distrai signals
- We down: design allows board and cover to be changed without costly, which we pack a resplicing
- ersatue cousing design permits aerial or pedestal mounting
- The structure, blocking jumpers for increased maintenance flexibility
- Mention geapility of faceplates for all DCs and splitters for simpler, less
   Mention entropy of theory of the set of t
- . Contra a acout tosand tot subattot environmentaj biotection

# Explorer<sup>™</sup> 2000 HCT



# 3.0 Explorer™ 2000 Specifications

## 3.1 Electrical Specifications

## 3.1.1 RF and Baseband Output Performance

With a +15 dBmV Input Signal, 85 CW Channels:

Cross modulation distortion (XMOD)<-57dBc</th>Composite second order distortion (CSO)<-60dBc</td>Composite triple beat distortion (CTB)<-60 dBc</td>

## 3.1.2 Frequency Assignments & Tuning Frequency Resolution

Frequency assignments comply with STD, HRC and IRC frequency lineups. The tuner can tune 250 kHz steps for QAM channels (digital) and 62.5 kHz steps for NTSC channels (analog).

## 3.1.3 Power Consumption

35 Watts Maximum

## 3.1.4 AC Input

The Explorer<sup>™</sup> 2000 DHCT accepts standard residential AC line voltage of 103.5 VAC to 126.5 VAC at 60 Hz.

## 3.1.5 AC Outlet

Supplies 400 Watts maximum at the AC input line voltage. It is switched on and off under software control.

## 3.1.6 Analog Channel RF Input

Connector	Threaded Female F connector
Frequency Range	54-860 MHz
RF Input Level	0 to + 15 dBmV (meets NTSC specs)
Functional operation without damage	-7 to +20 dBmV (operates)
Input Return Loss	7 dB minimum
Noise Figure	<12 dB at maximum gain
C/N (at input)	57 dB minimum (meets all specs)

Rev. 2.0	Scientific-Atlanta Proprietary Information
Explorer	Information contained on this sheet is subject to the statement on the title
Specifications	page
11-7-00	-

# 40 dB minimum (operates)

# 3.1.7 Digital Channel Input and Private Data

Explorer™ 2000 DHCT will support ITUJ.83 AnnexB. The following specifications will be used

Frequency Range	54-860 MHz				
RF Input Level 64 QAM 256 QAM	Typical for BER after FEC < 10 <sup>-9</sup> -20 dBmV to + 14 dBmV -14 dBmV to +14 dBmV				
	Meets spec of BER after FEC < $10^{-9}$				
64 QAM	-15 dBmV to + 14 dBmV				
256 QAM	-9 dBmV to +14 dBmV				
Input Return Loss	7 dB minimum				
Noise Figure	<12 dB at maximum gain				
C/N (At input) 64 QAM 256 QAM	To meet BER at input levels given above. > 32 dB in 6 MHz BW. > 38 dB in 6 MHz BW.				
Modulation Technique	ITUJ.83 Annex B 64 QAM and 256 QAM				
Transmission Rate	30.357 Mbits/sec. (64 QAM) 42.884 Mbits/sec. (256 QAM)				
Transport	DAVIC Structure; convolutional de- interleaving and Reed Solomon FEC with T=3				
Private Data Rate (average)	3 Mbits/sec (From QAM Demod input to DRAM)				
Private Data Format	per MPEG-2 (ISO/IEC 13818)				

# 3.1.8 Audio and Video Specifications

3.1.8.1 Digital Audio Specification	ns
Data Rate	384 Kbits/sec maximum
Format	MPEG 1, Layer 2, 2 channel Musicam, AC-3
Supported Sampling Rates	32 kHz, 48 kHz, and 44.1 kHz



## 3.1.8.2 Computer Generated Audio

Supported Sampling Rates	8 kHz, 11.025 kHz, 22.05 kHz, 24 kHz,
(Software Sample Rate Conversion)	32 kHz, 44.1 kHz, 48 kHz

# 3.1.8.3 Baseband Audio Output

Connector	Two female RCA-type phono jacks (right channel has red insulation, left channel has white insulation)
Output level	1.3 V p-p $\pm$ 10% with 10 k $\Omega$ load
Output impedance	600 ohms nominal
Volume control	64 steps from 0 dB (maximum volume) to -63 dB nominal
Step size	1 ± 0.5 dB
Mute	-50 dB

# A. Analog Service Selected

	1. BTSC selected	Explorer 2000	
	Frequency response	50 Hz to 10 kHz $\pm$ 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, reference 25-kHz L+R deviation at 1 kHz	> 45 dB A-weighted	
	2. SAP selected		
	Frequency response	100 Hz to 8 kHz $\pm$ 2 dB	
y aya ka ka	Total harmonic distortion kHz	n, 1 < 3.0%	

Scientific-Atlanta Proprietary Information Information contained on this sheet is subject to the statement on the title page

# Explorer<sup>™</sup> 2000 HCT



S/N with input +0 dBmV, input C/N 49 dB min.)

45 dB S/N minimum NTC-7 Weighting 46dB S/N minimum NTC-7

Weighting (2100/3100 product)

## 3.1.8.6 S-Video Output

Connector

S/N with input +0 dBmV, input C/N 49 dB min.)

4-position mini-DIN

45 dB S/N minimum NTC-7 Weighting

46dB S/N minimum NTC-7 Weighting (2100/3100 product)

Output levels

3.1.9 Forward Control Channel RF Input

Modulation Technique Frequency

**Transmission Rate** 

Channel Bandwidth

Channel Spacing

Adjacent Channel Performance (data)

Adjacent Channel Performance (video)

Mode

Transmission Format

Error Detection

RF input level

Differential QPSK

Y: 1 V p-p ± 10% C: 0.29 V p-p ± 10%

70-130 MHz agile, in 250 kHz steps

1.544 Mbits/sec.

1 MHz

1 MHz

Meets BER performance at +6dBC 1.00 Mhz from center

Meets BER performance at +16dBC 1.75 Mhz from center

Continuous Mode

DS1 Extended Superframe 53 byte ATM cells with an AAL5 layer

T=1 Reed Solomon

-16 dBmV<sub>RMS</sub> to +15 dBmV<sub>RMS</sub> (6 dB to 16 dB

Rev. 2.0 Explorer Specifications 11-7-00 Scientific-Atlanta Proprietary Information Information contained on this sheet is subject to the statement on the title page



below NTSC video) < 10<sup>-9</sup>.after Reed Solomon

BER performance @ C/N=18dB(in 772khz BW) at RF Input level given above

## 3.1.10 Reverse Control and Interactive Channel RF Output

Modulation Technique Frequency Channel Bandwidth Channel Step Size Forward Error Correction

Mode

Transmission Rate

Transmission Format Channel Sharing Protocol

Maximum RF Output Level C/No. 2 MHz from carrier (Output Level >40dbmV rms)

Spurious Output (5-42MHz)

Channel Tuning Time

**Differential QPSK** 

8-26.5 MHz

1 MHz

50 kHz

Shortened Reed Solomon (59,53), T=3

Burst Mode

256 kbits/second or 1.544 Mbits/second

53 byte ATM cells

Slotted ALOHA, TDMA, and Reservation

Variable + 55 dBmV<sub>RMS</sub> min

120 dB/Hz

-45dBC

< 5mS

Rev. 2.0 Explorer Specifications 11-7-00

Scientific-Atlanta Proprietary Information Information contained on this sheet is subject to the statement on the title page

~



# B. Digital Service Selected

Frequency response	20 Hz to 20 kHz	± 1.0 dB
Signal to noise ratio, reference full-scale output level	> 84 dB, A-weighted	
Dynamic range	> 84 dB at 1 kHz	
Total harmonic distortion, 20 Hz to 20 kHz bandwidth	< 0.2% at 1 kHz	
Stereo channel separation	> 80 dB at 1 kHz	

# 3.1.8.4 Baseband Video Output

Connector	Female RCA type with yellow insulation
Output level	1.0 V p-p $\pm$ 10% @ 75 ohms nominal
Frequency Response (75 Mhz to	3.0 dB p-p
3.75 Mhz)	2.5 dB p-p, shipments starting 6 months from 4/9/99
	2.0dB p-p (2100/3100 product)
S/N with input +0 dBmV, input C/N	45dB S/N minimum NTC-7 Weighting
49 dB min.)	46dB S/N minimum NTC-7 Weighting (2100/3100 product)

# 3.1.8.5 RF Output

Connector	F type
Frequency	Channel 3 (61.25 MHz) or Channel 4 (67.25 MHz) Switchable
RF Output Level	+9 +/-4.5 dBmV Video
	-13.5 +/-3.5 dBc Audio
Frequency Response (75 Mhz to 3.75 Mhz)	3.0 dB p-p
	2.5 dB p-p, shipments starting 6 months from 4/9/99
and a second second second second second second second second second second second second second second second Second second	2.0 dB p-p (2100/3100 product)
Return Loss	10 dB minimum

Rev. 2.0 Explorer Specifications 11-7-00

.....

Scientific-Atlanta Proprietary Information Information contained on this sheet is subject to the statement on the title page Proof-lt 3.0.8 - Ser.# P300A0545

## Date: 02-13-2009 Company: Charter Communications Inc. Plattsburgh Test Location: Plattsburgh Head end

## Technician: Tom Mattox Equipment: Agilent 8591C Calibration Date: 07/2008

		JAL CARRIERS - M		AURAL CARRIERS - MHz			
CHAN	ASSIGNED	MEASURED	DIFF kHz	ASSIGNED	MEASURED	DIFF kHz	
2	55.2500	55.2500	+0.0	4.500000	4.4999	-0.100	
3	61.2500	61.2499	-0.1	4.500000	4.4999	-0.100	
+	67.2500	67.2499	-0.1	4.500000	4.4990	-1.000	
5	77.2500	77.2499	-0.1	4.500000	4.4999	-0.100	
6	83.2500	83.2499	-0.1	4.500000	4,4999	-0.100	
95	91.2500	91.2500	+(),()	4.500000	4.5000	+0.000	
96	97.2500	97.2498	-0.2	4.500000	4.5000	+0.000	
98	109.2750	109.2749	-(), 1	4.500000	4,4999	-0.100	
99	115.2750	115.2749	-0.1	4.500000	4.5000	+0.000	
14	121.2625	121.2621	-0.4	4.500000	4.4990	-1.000	
15	127.2625	127.2621	-(),4	4.500000	4.5000	+0.000	
16	133.2625	133.2621	-0.4	4.500000	4.4998	-0.200	
17	139.2500	139.2496	-().4	4.500000	4.5000	+0.000	
18	145.2500	145.2496	-0.4	4.500000	4.5000	+().000)	
20	157.2500	157.2495	-0.5	4.500000	4.5000	+0.000	
21	163.2500	163.2495	-0.5	4.500000	4.5000	+0.000	
22	169.2500	169.2496	-0.4	4.500000	4.4999	-0.100	
7	175.2500	175.2496	-0.4	4.500000	4.5000	+0.000	
8	181.2500	181.2495	-0.5	4.500000	4.4999	-0.100	
9	187.2500	187.2496	-0.4	4.500000	4.5000	+0.000	
10	193.2500	193.2495	-0.5	4.500000	4.5000	+0.000	
11	199.2500	199.2495	-0.5	4.500000	4.4999	-0.100	
12	205.2500	205.2495	-0.5	4.500000	4.5000	+0.000	
13	211.2500	211.2495	-0.5	4.500000	4,4999	-0.100	
23	217.2500	217,2501	+0,1	4.500000	4.4999	-0.100	
24	223.2500	223.2501	+0.1	4.500000	4.5000	+0.000	
25	229.2625	229.2626	+0.1	4.500000	4.4999	-0.100	
26	235.2625	235.2626	+0.1	4.500000	4.5000	+0.000	
27	241.2625	241.2626	+0.1	4.500000	4.5000	+0.000	
28	247.2625	247.2626	+0.1	4.500000	4.5000		
29	253.2625	253.2626	+0.1	4.500000	4.4999	+0.000	
3()	259.2625	259.2626	+0.1	4.500000	4.5000		
31	265.2625	265.2609	-1.6	4.500000	4.5000	+0.000	
32	271.2625	271.2622	-0,3	4.500000		+0.000	
33	277.2625	277.2617	-0.8	4.500000	4.5000	+0.000	
34	283.2625	283.2616	-0,9	4.500000	· · · · · · · · · · · · · · · · · · ·	+0.000	
35	289.2625	289.2616	-0.9	4.500000	4,5000	+0.000	
36	295.2625	295.2622	-0.3		4.4998	-0.200	
37	301.2625	301.2616	-0,9	4.500000	4,4999	-0.100	
38	307.2625	307.2616	-0.9	4.500000	4.4999	-0.100	
39	313.2625	313.2607	-0.9	4.500000	4,4999	-0.100	

PASS

Falcon Cable

Date: 02-13-2009 Company: Charter Communications Inc. Plattsburgh Test Location: Plattsburgh Head end Technician: Tom Mattox Equipment: Agilent 8591C Calibration Date: 07/2008

		JAL CARRIERS - M			RAL CARRIERS - M	
CHAN	ASSIGNED	MEASURED	DIFF kHz	ASSIGNED	MEASURED	DIFF kHz
40	319.2625	319.2606	-1.9	4.500000	4.4999	-0,100
42	331.2750	331.2732	-1.8	4.500000	4.4999	-0.100
43	337.2625	337.2605	-2.0	4.500000	4.4999	-0,100
-44	343.2625	343.2605	-2.0	4.500000	4.4999	-0,100
45	349.2625	349.2605	-2.0	4.500000	4.4999	-0,100
46	355.2625	355.2604	-2.1	4.500000	4.4999	-0.100
47	361.2625	361.2620	-0.5	4.500000	4,4999	-0.100
49	373.2625	373.2619	-0.6	4.500000	4.4999	-0.100
50	379.2625	379.2619	-0.6	4.500000	4,4999	-0.100
51	385.2625	385.2619	-0.6	4.500000	4.4999	-0.100
52	391.2625	391.2619	-0.6	4.500000	4.4999	-0.100
54	403.2500	403.2494	-0.6	4.500000	4.4999	-0.100
55	409.2500	409.2498	-0.2	4.500000	4.4999	-0.100
56	415.2500	415.2504	+0.4	4.500000	4.5000	+0.000
57	421.2500	421.2495	-0.5	4.500000	4.4999	-0.100
58	427.2500	427.2498	-0.2	4.500000	4.5000	+0.000
59	433.2500	433.2492	-0.8	4.500000	4.5000	+0.000
60	439.2500	439.2489	-1,1	4.500000	4.4999	-0.100
61	445.2500	445.2491	-().9	4.500000	4.5000	+0.000
62	451.2500	451.2502	+0.2	4.500000	4.4999	-0.100
63	457.2500	457.2492	-0.8	4.500000	4.4999	-0.100
64	463.2500	463.2492	-0.8	4.500000	4.4999	-0.100
65	469.2500	469,2492	-0.8	4.500000	4.5000	+0.000
66	475.2500	475.2492	-0.8	4.500000	4.5000	+0.000
67	481.2500	481.2492	-0.8	4.500000	4.5000	+0.000
68	487.2500	487.2492	-0.8	4.500000	4.5000	+0.000
70	499.2500	499.2492	-0.8	4.500000	4.5000	+0.000
71	505.2500	505.2491	-0.9	4.500000	4.5000	+0.000
72	511.2500	511.2491	-0.9	4.500000	4.5000	+0,000
73	517.2500	517.2491	-0.9	4.500000	4.5000	+0.000
74	523.2500	523.2491	-0.9	4.500000	4.5000	+0.000
75	529.2500	529.2491	-0.9	4.500000	4.5000	+0.000
76	535.2500	535.2491	-0.9	4.500000	4.5000	+0.000
78	547.2500	547.2490	-1.0	4.500000	4.50004.	+0.000
116	745.2500	745.2496	-0.4	4.500000	4.50004	+0.040
			• • • • • • • • • • • • • • • • •			+0.000
	· · · · · · · · · · · · · · · · · · ·		· · · · ·			······································
				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
PASS						

العمار

# Plattsburgh Headend Optional Test 2/11/2009

2 3 4	53.42 48.39	77.71	68.34	NA		~~~
	48.39					0.3
4		77.78	72.98	NA		0.6
	48.19	75.56	66.73	NA		0.5
5	52.67	74.52	73.4		2.6	1.8
6	45.9	74.68	75.57		3.1	2
95	54.6	78.65	74.95	NA		0.5
96	49.9	70.97	69.27	NA		0.8
98	54.8	79.36	77.97	NA		0.7
99	51.4	75.19	73.23	NA		1.1
14	47.7	75.83	72.74		1.3	0.9
15	52.3	75.25	70.37		2.2	1.3
16	47.9	74.82	64.26	NA		1.1
17	52.7	76.58	66.65	NA		1.4
18	56.6	76.54	69.6	NA		0.7
20	51.2	75.6	69.53	NA		0.7
21	53.2	70.91	67.01		3	0.8
22	48.9	76.9	71.08		0.8	0.7
7	59.9	76.56	71.54	NA		1
8	57.4	77.26	71.39		1.4	1.6
9	59.2	75.94	66.52	NA		0.8
10	58.9	75.46	67.64	NA		1.1
11	57.6	69.95	63.34	NA		0.7
12	51.6	76.38	70.82	NA		0.7
13	57.6	69.81	65.27		1.7	1.3
23	55.9	75.33	67.29	NA		0.7
24	49.8	73.13	64.24	NA		1.7
25	52.3	78.43	63.73	NA		0.5
26	54.7	79.12	75.73	NA		0.5
27	55.5	79.19	75.75	NA		0.4
28	57.1	78.97	68.95	NA		0.8
29	57.2	78.46	70.51	NA		0.7
30	56.4	77.12	73.02	NA		0.8
31	53.1	79.45	70.75			0.9
32	52.2	78.2	73.43			0.8
33	51.7	78.17	74.98	NA		0.7
34	57.5	78.64	76.07	NA		0.8
35	-58.4	78.85	76.46	NA		0.8
36	58.5	78.37	77.91	NA		0.8
37	58.8	77.37	73.58	NA		0.7
38	57.1	77.39	74.95			0.8
. 39	52.8	72.46	74.73	NA		0.9
40	58.2	77.17	74.04	NA		0.7
	ffline					
42	58.2	80.96	72.98	NA		0.8
43	58.2	77.96	67.64	NA		0.8
44	58.4	77.5	72.02	NA		0.8
45	58	76.19	73.73			0.9

				×	
46	56.6	76.46	72.29	NA	0.5
47	56.6	77.5	65.97	NA	0.5
	Offline				
49	57	77.53	72.89	NA	0.5
50	56.4	77.8	73.68	NA	0.5
51	56.6				0.5
52	55.6	77.42			0.5
54		80.39	79.32	NA	0.6
55	56.6	77.12	73.07	NA	0.9
56	55.9	76.96	67.64	1.9	0.5
57	54.2	77.91	76.43	NA	0.6
58	54	77.7	69.97	NA	0.5
59	58.2	75.29	73.59	NA	0.8
60	55.3	77.91	74.52	NA	0.5
61	55.1		72.19		0.8
62	56.3	77.51	72.7		1
63	53.7	76.51	73.69	NA	1
64	56.8	76.74			1.1
65	50.8	76.25	74.49	NA	0.7
66	51.73	76.2	72.39	NA	1.1
67	52.7	76.81	74.23	NA	0.7
68	50.8	73.71	70.09	NA	1.7
69	Offline				
70	52.45	72.3	69.93	NA	0.6
71	50.75	75.6	71.61	NA	0.7
72	51.59	72.91	68.17	NA	0.6
73	48.82	72.71	69.7	NA	0.6
74	51.63	71.96	68.35	NA	0.6
75	50.95	71.85	69.93	NA	1.2
76		72.47	68.97	NA	0.6
	Offline				
78	50.78	73.27	70.26	NA	0.7
116	50.76	74.19	67.58	NA	1

.

	Chan	Diff Gai 2 TSNF 3 TSNF 4 TSNF	in %	Diff Phase	CLDI ns	Y1 IRE	Y2 IRE			
			14.0	4 4	16					
		5	14.9		16					
		6	9.9	3.7	22					
		95 TSNF								
		96 TSNF								
		98 TSNF								
		99 TSNF	04		00					
		14	24							
		15 16 TONE	3	-0.7	186					
		16 TSNF								
		17 TSNF 18 TSNF								
		IO IONE								
		20 TSNF								
		20 1010	6.9	2.6	-12					
		22	6.6							
		7 TSNF	0.0		02					
		8	14.5	0.7	-21					
		9 TSNF		•						
		10 TSNF								
		11 TSNF								
		12 TSNF								
		13	32.1	5.4	-7					
		23 TSNF								
		24 TSNF								
		25 TSNF								
		26 TSNF								
		27 TSNF								
		28 TSNF								
		29 TSNF								
		30 TSNF								
		31 TSNF								
		32 TSNF								
		33 TSNF								
		34 TSNF 35 TSNF								
		36 TSNF								
		37 TSNF								
		38 TSNF								
		39 TSNF								
		40 TSNF								
		41 Offline		· · ·						
		42 TSNF	•-	·· .			۰.		· .	· ·
		43 TSNF								
		44 TSNF								
		45 TSNF								
		46 TSNF								
		47 TSNF								
		48 Offline								
• •										•

.

49 TSNF			
50 TSNF			
51 TSNF			
52 TSNF			
54 TSNF			
55 TSNF			
56 81	.1	1.6	-54
57 TSNF			
58 TSNF			
59 TSNF			
60 TSNF			
61 TSNF			
62 TSNF			
63 TSNF			
64 TSNF			
65 TSNF			
66 TSNF			
67 TSNF			
68 TSNF			
69 Offline			
70 TSNF			
71 TSNF			
72 TSNF			
73 TSNF			
74 TSNF			
75 TSNF			
76 TSNF			
77 Offline			
78 TSNF			
116 TSNF	_		
end: Plattsburgh	Date: 2/	13/2009	Technicia

Header

an:Tom Matto Analyzer Make: Trilirhic Model: 8821Q SN: 860059 Calibrated 5/5/2008 Proof-It 3.0.8 - Ser.# P300A0545

## Date: 2/13/2009 Company: Charter Communications Inc. Plattsburgh Test Location: Plattsburgh NY Head end

Technician: Tom Maddox Equipment: 3010R Calibration Date: 07/2008

CHANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)
2	<u>19.1</u> 18.7	4.3	14.8
3	18.7	4.4	14.3 14.5
	18.2	3.9	
6	18.4	4.6	14.3 13.8
95	18.3	4.0	13.8
96	19.3	5.1	13.8
98	18.5	4.6	13.9
99	18.3	4.2	14.1
14	18.9	4.5	14.4
15	18.7	4.7	[4.0]
16	19.4	5.4	14.0
17	18.5	3.7	14.8
18	18.5	4.5	14.0
20	18.9	4.9	14.0
21	19.1	4.9	14.2
22	18.9	4.5	14.4
7	18.7	4.7	14.0
8	19.2	2.5	16.7
	18.6	5.0	13.6
10	18.6	4.7	13.9
11	18.9	4.4	14.5 14.1
12	18.9	4.8	14.1
23	18.9	4.4	13.9
24	18.8	4.7	14.1
25	18.8	5.0	13.8
26	18.0	5.1	12.9
27	18.0	4.5	13.5
28	18.6	4.6	[4.0
29	18.9	4.9	14.0
30		5.3	13.4
31	18.9	5.1	13.8
32 33	18.8	4.5	14.3
33	18.4	4.3	14.1
35	18.3	4.8	13.9
36	18.5	4.7	13.6
37	18.7	4.2	14.4
38	19.3	5.0	13.9
39	18.9	4.6	14.3
40	19.2	4.9	14.3
42	18.8	5.1	13.7
43	19.1	5.0	14.1
44	19.0	5.2	13.8
45	19.0	4.6	[4.4
46	18.7	4.6	[4.]
WORST CASE MEASE	UREMENT DATA - WITHIN RATE	D ACCURACY OF MEAS	SURING DEVICE ±.75 dE
	Lowest Visual Carrier (dBm Worst Upper V/A Ratio (dB	): P [16.7] Ch. 8	· · .
	Worst Lower V/A Ratio (dB	): P [12.9] Ch. 26	
	Worst Adj. Carrier Delta (dE Max-Min Carrier Delta (dB)		
	Max-Man Carner Delta (dB)	: P [1.4] Ch. 16/26	
ASS			
le			

FCC Signal Level Compliance 76.605(a) - (4), (5)(i), (5)(ii), (6) *Proof-It 3.0.8 - Ser.# P300A0545* 

Date: 2/13/2009 Company: Charter Communications Inc. Plattsburgh Test Location: Plattsburgh NY Head end Technician: Tom Maddox Equipment: 3010R Calibration Date: 07/2008

47       18.9       4.5       14.5         50       19.4       3.7       15.7         51       18.7       4.8       14.0         52       18.8       4.8       14.0         53       19.1       5.2       13.9         55       19.1       5.2       13.9         56       18.6       4.6       14.0         57       18.7       5.1       13.6         58       18.7       5.1       13.6         59       19.0       4.8       14.2         60       19.0       5.1       13.9         61       19.0       4.8       14.2         62       18.9       5.2       13.7         63       18.7       4.8       13.9         64       18.5       5.0       13.5         65       19.3       5.7       13.6         66       19.0       5.0       14.4         70       18.5       4.7       13.8         70       18.5       4.7       13.8         73       18.2       4.4       13.8         75       18.9       5.7       13.2 <td< th=""><th>CHANNEL</th><th>VIDEO (dBmv)</th><th>AUDIO (dBmv)</th><th>RATIO (dB)</th></td<>	CHANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)
S0         19.4         3.7         15.7           51         18.7         4.8         139           52         18.8         4.8         140           54         19.2         4.7         14.4           55         19.1         5.2         13.9           56         18.6         4.6         14.0           57         18.7         5.1         13.3           59         19.0         4.9         14.1           60         19.0         5.1         13.9           61         19.0         4.8         14.2           62         18.9         5.2         13.7           63         18.7         4.8         13.9           64         18.5         5.0         13.5           65         19.3         5.7         13.6           66         19.0         5.0         14.0           67         18.8         5.0         13.5           70         18.5         4.7         13.6           66         19.0         5.0         14.0           67         18.3         5.0         13.4           72         18.9         5.5 <td></td> <td>18.9</td> <td>4.5</td> <td>14.4</td>		18.9	4.5	14.4
51         18.7         4.8         13.9           52         18.8         4.8         14.9           55         19.1         5.2         13.9           56         18.6         4.6         14.5           57         18.7         5.1         13.6           58         18.7         5.4         13.3           59         19.0         4.9         14.1           60         19.0         4.8         14.2           61         19.0         4.8         14.2           62         18.9         5.2         13.7           63         18.7         4.8         13.9           64         18.5         5.0         13.5           65         19.3         5.7         13.6           66         19.0         5.0         13.8           70         18.5         4.7         13.8           71         18.4         4.0         14.4           72         18.9         5.7         13.8           74         18.5         4.7         13.8           75         18.9         5.5         13.4           76         19.1         5.0 </td <td>49</td> <td></td> <td></td> <td></td>	49			
S2         18.8         4.8         14.0           54         19.2         4.7         14.5           55         19.1         5.2         13.9           56         18.6         4.6         14.0           57         18.7         5.1         13.6           58         18.7         5.4         13.3           59         19.0         4.9         14.4           60         19.0         4.9         14.4           60         19.0         4.8         14.2           61         19.0         4.8         14.2           62         18.9         5.2         13.7           63         18.7         4.8         13.9           64         18.5         5.0         13.8           65         19.3         5.7         13.6           66         18.6         5.1         13.5           70         18.5         4.7         13.8           71         18.4         4.0         14.4           72         18.9         5.7         13.2           73         18.2         4.4         13.8           74         18.5         4.7 </td <td>50</td> <td></td> <td></td> <td></td>	50			
54         19.2         4.7         14.5           55         19.1         5.2         13.9           56         18.6         4.6         14.0           57         18.7         5.1         13.6           58         18.7         5.4         13.3           59         19.0         4.9         14.1           60         19.0         4.8         14.2           61         19.0         4.8         14.2           62         18.9         5.2         13.7           63         18.7         4.8         13.5           64         18.5         5.0         13.6           66         19.0         5.7         14.0           67         18.8         5.0         13.8           68         18.6         5.1         13.3           70         18.5         4.7         13.8           71         18.5         4.7         13.8           71         18.5         4.7         13.8           71         18.5         4.7         13.8           74         18.9         5.5         13.4           75         18.9         5.5 </td <td>21</td> <td></td> <td></td> <td></td>	21			
55         19.1         5.2         13.9           56         18.6         4.6         14.0           57         18.7         5.1         13.6           58         18.7         5.4         13.3           59         19.0         4.9         14.1           60         19.0         5.1         13.9           61         19.0         4.8         14.2           62         18.9         5.2         13.7           63         18.7         4.8         13.9           64         18.5         5.0         13.5           65         19.3         5.7         13.6           66         19.0         5.0         14.0           67         18.8         5.0         13.5           70         18.5         4.7         13.8           71         18.4         4.0         14.4           72         18.9         5.7         13.2           73         18.2         4.4         13.8           75         18.9         5.5         13.4           76         19.1         5.0         14.1           78         19.1         5.8 </td <td></td> <td>18.8</td> <td></td> <td>14.0</td>		18.8		14.0
56         18.6         4.6         14.0           57         18.7         5.1         13.6           58         18.7         5.4         13.3           59         19.0         4.9         14.1           60         19.0         5.1         13.9           61         19.0         4.8         14.2           62         18.9         5.2         13.7           63         18.7         4.8         13.9           64         18.5         5.0         13.5           65         19.3         5.7         13.6           66         19.0         5.0         14.0           67         18.8         5.0         13.8           68         18.6         5.1         13.5           70         18.5         4.7         13.8           71         18.4         4.0         14.4           73         18.2         4.4         13.8           74         18.5         4.7         13.8           75         18.9         5.5         13.4           76         19.1         5.0         14.1           78         19.1         5.8 </td <td></td> <td></td> <td></td> <td></td>				
57         18.7         5.1         13.6           58         18.7         5.4         13.3           59         19.0         4.9         14.1           60         19.0         4.9         14.1           60         19.0         4.8         14.2           62         18.9         5.2         13.7           63         18.7         4.8         13.9           64         18.5         5.0         13.5           65         19.3         5.7         13.6           66         19.0         5.0         13.8           64         18.5         5.0         13.8           65         19.3         5.7         13.6           67         18.8         5.0         13.8           70         18.5         4.7         13.8           71         18.4         4.0         14.4           72         18.9         5.5         13.4           75         18.9         5.5         13.4           76         19.1         5.0         14.1           78         19.1         5.8         13.3           78         19.1         5.8 </td <td></td> <td></td> <td></td> <td></td>				
58         18,7         5.4         13,3           59         19,0         4.9         14,1           60         19,0         5.1         13,9           61         19,0         4.8         14,2           62         18,9         5.2         13,7           63         18,7         4.8         13,9           64         18,5         5.0         13,5           65         19,3         5.7         13,6           66         19,0         5.0         14,0           67         18,8         5.0         13,8           68         18,6         5.1         13,5           70         18,5         4.7         13,8           71         18,4         4.0         14,4           72         18,9         5.7         13,2           73         18,2         4.4         13,8           74         18,5         4.7         13,4           76         19,1         5.0         14,1           78         19,1         5.0         14,1           78         19,1         5.0         14,1           78         19,1         5.0 </td <td></td> <td></td> <td></td> <td></td>				
59         19.0         4.9         14.1           60         19.0         5.1         13.9           61         19.0         4.8         14.2           62         18.9         5.2         13.7           63         18.7         4.8         13.9           64         18.5         5.0         13.5           65         19.3         5.7         13.6           66         19.0         5.0         14.0           67         18.8         5.0         13.8           68         18.6         5.1         13.5           70         18.5         4.7         13.8           71         18.4         4.0         14.4           72         18.9         5.7         13.2           73         18.2         4.4         13.8           74         18.5         4.7         13.8           75         18.9         5.5         13.4           76         19.1         5.0         14.1           78         19.1         5.8         13.3           78         19.1         5.8         13.3           76         19.1         5.0 </td <td></td> <td></td> <td></td> <td></td>				
60         19.0         5.1         13.9           61         19.0         4.8         14.2           62         18.9         5.2         13.7           63         18.7         4.8         13.9           64         18.5         5.0         13.5           65         19.3         5.7         13.6           66         19.0         5.0         14.0           67         18.8         5.0         13.8           68         18.6         5.1         13.5           70         18.5         4.7         13.8           71         18.4         4.0         14.4           72         18.9         5.7         13.2           73         18.2         4.4         13.8           74         18.5         4.7         13.8           75         18.9         5.5         13.4           76         19.1         5.0         14.1           78         19.1         5.8         13.3           9         19.1         5.8         13.3           9         19.1         5.8         13.3           9         19.1         5.8				
61         19.0         4.8         14.2           62         18.9         5.2         13.7           63         18.7         4.8         13.9           64         18.5         5.0         13.5           65         19.3         5.7         13.6           66         19.0         5.0         13.3           66         19.0         5.0         13.8           68         18.6         5.0         13.8           70         18.5         4.7         13.8           71         18.4         4.0         14.4           72         18.9         5.7         13.2           73         18.2         4.4         13.8           74         18.5         4.7         13.8           75         18.9         5.5         13.4           76         19.1         5.0         14.1           78         19.1         5.8         13.3           9         19.1         5.8         13.3           9         19.1         5.8         13.3           9         19.1         5.8         13.3           9         19.1         5.8				
62       18.9       5.2       13.7         63       18.7       4.8       13.9         64       18.5       5.0       13.5         65       19.3       5.7       13.6         66       19.0       5.0       14.0         67       18.8       5.0       13.8         68       18.6       5.1       13.5         70       18.5       4.7       13.8         71       18.4       4.0       14.4         72       18.9       5.7       13.2         73       18.2       4.4       13.8         74       18.5       4.7       13.4         75       18.9       5.5       13.4         76       19.1       5.0       14.1         78       19.1       5.0       14.1         78       19.1       5.8       13.3         9       15.8       13.3       13.4         76       19.1       5.8       13.3         9       14.1       15.8       13.3         9       15.9       13.4       14.1         78       19.1       5.8       13.3 <td< td=""><td></td><td></td><td>18</td><td></td></td<>			18	
63         18.7         4.8         13.9           64         18.5         5.0         13.5           65         19.3         5.7         13.6           66         19.0         5.0         14.0           67         18.8         5.0         13.8           68         18.6         5.1         13.5           70         18.5         4.7         13.8           71         18.4         4.0         14.4           72         18.9         5.7         13.2           73         18.2         4.4         13.8           74         18.5         4.7         13.8           75         18.9         5.5         13.4           76         19.1         5.0         14.1           78         19.1         5.8         13.3           9         5.5         13.4           76         19.1         5.8         13.3           78         19.1         5.8         13.3           78         19.1         5.8         13.3           78         19.1         5.8         13.4           79         16.0         14.1         14.1 </td <td></td> <td></td> <td></td> <td></td>				
64         18.5         5.0         13.5           65         19.3         5.7         13.6           66         19.0         5.0         14.0           67         18.8         5.0         13.8           68         18.6         5.1         13.5           70         18.5         4.7         13.8           71         18.4         4.0         14.4           72         18.9         5.7         13.2           73         18.2         4.4         13.8           74         18.5         4.7         13.8           75         18.9         5.5         13.4           76         19.1         5.0         14.1           78         19.1         5.8         13.3           9.1         5.8         13.3           9.1         5.8         13.3           9.1         5.8         13.3           9.1         5.8         13.3           9.1         5.8         13.3           9.1         5.8         13.3           9.1         5.8         13.3           9.1         5.8         13.3           9.1 <td></td> <td></td> <td></td> <td></td>				
65         19.3         5.7         13.6           66         19.0         5.0         14.0           67         18.8         5.0         13.8           68         18.6         5.1         13.5           70         18.5         4.7         13.8           71         18.4         4.0         14.4           72         18.9         5.7         13.2           73         18.2         4.4         13.8           74         18.5         4.7         13.4           75         18.9         5.0         14.1           78         19.1         5.0         14.1           78         19.1         5.8         13.3           WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ±           Lowest Visual Carrier (dBmv):         P [18.0] Ch. 26           Worst Upper V/A Ratio (dB):         P [16.7] Ch. 8         Worst Lower V/A Ratio (dB):           Worst Lower V/A Ratio (dB):         P [12.9] Ch. 26         Worst Lower V/A Ratio (dB):			5.0	13.5
66         19.0         5.0         14.0           67         18.8         5.0         13.8           68         18.6         5.1         13.5           70         18.5         4.7         13.8           71         18.4         4.0         14.4           72         18.9         5.7         13.2           73         18.2         4.4         13.8           74         18.5         4.7         13.8           75         18.9         5.5         13.4           76         19.1         5.0         14.1           78         19.1         5.8         13.3           9         5.8         13.3           9         19.1         5.8         13.3           9         19.1         5.8         13.3           9         19.1         5.8         13.3           9         19.1         5.8         13.3           9         19.1         5.8         13.3           10         10         10         10         10           10         10         10         10         10         10           10         10 <td></td> <td></td> <td></td> <td></td>				
67       18.8       5.0       13.8         68       18.6       5.1       13.5         70       18.5       4.7       13.8         71       18.4       4.0       14.4         72       18.9       5.7       13.2         73       18.2       4.4       13.8         74       18.5       4.7       13.8         75       18.9       5.5       13.4         76       19.1       5.0       14.1         78       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       10.1       10.1       10.1         9       10.1       10.1       10.1         9			50	
68         18.6         5.1         13.5           70         18.5         4.7         13.8           71         18.4         4.0         14.4           72         18.9         5.7         13.2           73         18.2         4.4         13.8           74         18.5         4.7         13.8           75         18.9         5.5         13.4           76         19.1         5.0         14.1           78         19.1         5.8         13.3				
70       18.5       4.7       13.8         71       18.4       4.0       14.4         72       18.9       5.7       13.2         73       18.2       4.4       13.8         74       18.5       4.7       13.8         75       18.9       5.5       13.4         76       19.1       5.0       14.1         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         79       19.1       5.8       13.3         78       19.1       5.8       13.3         79       19.1       5.8       13.3         79       19.1       5.8       13.2         79       19.1       5.8       13.3         79       19.1       10.1       10.1         70       19.1       10.1       10.1         70       10.1       10.1       10.1				
71       18.4       4.0       14.4         72       18.9       5.7       13.2         73       18.2       4.4       13.8         74       18.5       4.7       13.8         75       18.9       5.5       13.4         76       19.1       5.0       14.1         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         79       19.1       5.8       13.3         70       19.1       5.8       13.3         70       19.1       5.8       13.3         70       19.1       5.8       13.3         70       19.1       5.8       13.3         71       19.1       19.1       10.1         70       19.1       14.1       13.3         70       19.1       10.1       10.1         70       10.1       10.1       10.1         71       10.1       10.1       10.1				
72       18.9       5.7       13.2         73       18.2       4.4       13.8         74       18.5       4.7       13.8         75       18.9       5.5       13.4         76       19.1       5.0       14.1         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         79       19.1       5.8       13.3         79       19.1       10.1       10.1         79       10.1       10.1       10.1       10.1         79       10.1       10.1       10.1       10.1         79       10.1       10.1       10.1       10.1       10.1         70       10.1       10.1       10.1       10.1       10.1       10.1         70       10.1       10.1 <td></td> <td></td> <td></td> <td></td>				
73       18.2       4.4       13.8         74       18.5       4.7       13.8         75       18.9       5.5       13.4         76       19.1       5.0       14.1         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         78       19.1       5.8       13.3         79       19.1       5.8       13.3         79       19.1       10.1       10.1         79       19.1       10.1       10.1         79       19.1       10.1       10.1         79       11.0       10.1       10.1         79       11.0       10.1       10.1         79       11.0       10.1       10.1         70       11.0       10.1       10.1         70       11.0       10.1       10.1         70       11.0       10.1       10.1				
74       18.5       4.7       13.8         75       18.9       5.5       13.4         76       19.1       5.0       14.1         78       19.1       5.8       13.3         9       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       10.3       10.3         9       10.3       10.3       10.3         9       10.3       10.3       10.3         9       10.3       10.3       10.3         9       10.3       10.3       10.3         10       10.3       10.3       10.3         10       10.3       10.3       10.3       10.3         10       10.3       10.3       10.3       10.3         10       10.3       10.3       10.3       10		18.2		
75       18.9       5.5       13.4         76       19.1       5.0       14.1         78       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       19.1       5.8       13.3         9       10.1       5.8       13.3         9       10.1       5.8       13.3         9       10.1       10.1       10.1         9       11.0       10.1       10.1         9       11.0       11.0       10.0       10.0         9       11.0       10.0       10.0       10.0       10.0				
76         19.1         5.0         14.1           78         19.1         5.8         13.3           78         19.1         5.8         13.3           78         19.1         5.8         13.3           78         19.1         5.8         13.3           78         19.1         5.8         13.3           78         19.1         5.8         13.3           78         19.1         5.8         13.3           78         19.1         5.8         13.3           78         19.1         5.8         13.3           79         19.1         19.1         19.1           79         19.1         19.1         19.1           79         14.1         13.3         13.3           79         19.1         19.1         19.1           70         19.1         19.1         19.1         19.1           70         19.1         19.1         11.0         10.1         10.1           70         14.1         19.1         11.0         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.		18.9		13.0
78       19.1       5.8       13.3         19.1       5.8       13.3         19.1       5.8       13.3         19.1       5.8       13.3         19.1       5.8       13.3         19.1       5.8       13.3         19.1       5.8       13.3         19.1       5.8       13.3         19.1       5.8       13.3         19.1       10.1       13.3         19.1       10.1       13.3         19.1       10.1       10.1         19.1       10.1       10.1         19.1       11.0       10.1         19.1       11.0       10.1         19.1       11.0       10.1         19.1       11.0       10.1         10.1       10.1       10.1         10.1       10.1       10.1         10.1       10.1       10.1         10.1       10.1       10.1         10.1       10.1       10.1         10.1       10.1       10.1         10.1       10.1       10.1         10.1       10.1       10.1         10.1       10.1				
WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± Lowest Visual Carrier (dBmv): P [18.0] Ch. 26 Worst Upper V/A Ratio (dB): P [16.7] Ch. 8 Worst Lower V/A Ratio (dB): P [12.9] Ch. 26 Worst Adj. Carrier Delta (dB): P [1.0] Ch. 95			5.8	
Lowest Visual Carrier (dBmv): P [18.0] Ch. 26 Worst Upper V/A Ratio (dB): P [16.7] Ch. 8 Worst Lower V/A Ratio (dB): P [12.9] Ch. 26 Worst Adj. Carrier Delta (dB): P [1.0] Ch. 95				
Lowest Visual Carrier (dBmv): P [18.0] Ch. 26 Worst Upper V/A Ratio (dB): P [16.7] Ch. 8 Worst Lower V/A Ratio (dB): P [12.9] Ch. 26 Worst Adj. Carrier Delta (dB): P [1.0] Ch. 95				
Lowest Visual Carrier (dBmv): P [18.0] Ch. 26 Worst Upper V/A Ratio (dB): P [16.7] Ch. 8 Worst Lower V/A Ratio (dB): P [12.9] Ch. 26 Worst Adj. Carrier Delta (dB): P [1.0] Ch. 95	ļ			· · · ·
Lowest Visual Carrier (dBmv): P [18.0] Ch. 26 Worst Upper V/A Ratio (dB): P [16.7] Ch. 8 Worst Lower V/A Ratio (dB): P [12.9] Ch. 26 Worst Adj. Carrier Delta (dB): P [1.0] Ch. 95				
Lowest Visual Carrier (dBmv): P [18.0] Ch. 26 Worst Upper V/A Ratio (dB): P [16.7] Ch. 8 Worst Lower V/A Ratio (dB): P [12.9] Ch. 26 Worst Adj. Carrier Delta (dB): P [1.0] Ch. 95			-	`
Worst Upper V/A Ratio (dB): P [16.7] Ch. 8 Worst Lower V/A Ratio (dB): P [12.9] Ch. 26 Worst Adj. Carrier Delta (dB): P [1.0] Ch. 95	WORST CASE MEASUR			SURING DEVICE ±.
	• •	<ul> <li>Worst Upper V/A Ratio (c</li> <li>Worst Lower V/A Ratio (c</li> <li>Worst Adj. Carrier Delta (</li> </ul>	IB):       P [16.7] Ch. 8         JB):       P [12.9] Ch. 26         (dB):       P [1.0] Ch. 95	
ISS	SS			

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01-20-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #1 Smith Drive

Technician: Bob Greer Equipment: 3010R Calibration Date: 07/2008

	Time: 09:28	Time: 15:28	Time: 21:28	Time: 03:28	
	Temp: 63.øF	Temp: 26.øF	Temp: 9 øF	Temp: 1.8øF	
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)		
	20.2	20.4	20.2	20.1	0.3
3	20.9	21.3	21.0	20.9	0.4
4	21.6	21.4	21.1	21.3	0.5
5	21.1	21.1	21.0	20.6	0.5
6	20.7	21.0	20.8	20.9	0.3
98	20.4	20.6	20.5	20.7	0.3
99	20.2	20.1	20.2	20.2	0.1
14	20.9	21.0	21.0	21.1	0.2
15	21.0	21.2	20.7	21.3	0.6
16	20.5	20.4	20.4	20.4	0.1
17	21.5	21.6	21.7	21.8	0.3
18	21.7	21.6	21.5	21.8	0.3
20	22.1	22.2	22.3	22.6	0.5
21	22.1	22.2	22.1	22.6	0.5
22	22.0	22.3	22.4	22.4	0.4
7	21.9	21.9	22.1	22.3	0.4
8	22.2	22.4	22.3	22.5	0.3
9	22.6	22.4	22.6	22.8	().4
10	22.2	22.9	22.8	23.1	().9
11	22.8	22.9	22.9	23.1	0.3
12	22.7	23.2	23.2	23.4	0.7
13	22.3	22.6	22.6	22.7	0.4
23	21.9	22.5	22.6	22.7	0.8
24	22.3	22.6	22.5	22.8	0.5
25	21.2	22.4	22.2	22.5	1.3
26	21.4	21.9	21.8	22.2	0.8
27	20.8	21.3	21.3	21.9	1.1
28	21.7	21.6	21.4	22.0	0.6
<u> </u>	20.9 21.6	21.8	21.6	21.9	1.0
		21.4	21.5	21.7	0.3
31	21.1 21.5	21.7	21.5	21.6	0.6
32 33	19.9	21.6 20.8	21.7 21.1	21.9 20.9	0.4
33	20.9				1.2
35	20.9	21.1 20.9	21.1 20.9	21.1	0.2
36	20.2	20.9	20.9		
37	20.9	20.9	20.8	21.4 21.1	0.6
38	20.0	20.8			1.1
44	20.9	20.4	21.1 20.8	21.3 20.9	0.4
44 46	19.8	20.4	20.8	20.9	0.8
40	20.0	20.5	20.5		1.1
47	19.9	$\frac{20.4}{20.0}$	20.4	20.8 20.4	0.8
50	19.9	20.0	$\frac{20.1}{20.8}$	20.4	0.5 1.5
<u>50</u>	20.1	20.8	20.8	<ul> <li>An immunity of the second s second second se</li></ul>	and the second second second second
52	19.2	20.0	20.2	20.4	0.4
54	19.2	20.3	20.5	20.5	2.0
55	19.9	20.3	20.0	20.9	$\frac{2.0}{1.1}$
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	······································			
WORS	F CASE MEASUREMENT	DATA - WITHIN RAT	ED ACCURACY OF M	IEASURING DEVICE	± .75 dB
	RECORD	<u>RECOR</u>	RD 2 RI	ECORD 3	RECORD 4
west Visual Carrie		h. 78 P.   18.5	[ Ch. 78 P	[18.8] Ch. 78	P [18.7] Ch. 75
orst Adj. Carrier D	· · · · · · · · · · · · · · · · · · ·			[1.3] Ch. 16	P [1.5] Ch. 64
ix-Min Carrier Del	ta (dB): P [4.6] Ch	. 11/78 P [4.7]		[4.4] Ch. 12/78	P [4.7] Ch. 12/75
Hour Delta: PAS	S [2.3 dB] Ch. 58				
PASS					
con Cable					

\_\_\_\_\_

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01-20-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #1 Smith Drive

.....

.

Technician: Bob Greer Equipment: 3010R Calibration Date: 07/2008

\_\_\_\_\_

	Time: 09:28	Time: 15:28	Time: 21:28	Time: 03:28	
	Temp: 63.øF	Temp: 26.øF	Temp: 9 øF	Temp: 1.8øF	
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)	RECORD 4 (dBmv)	DELTA (dB)
56	18.3	19.6	20.1	20.5	2.2
57	19.6	19.5	19.6	20.7	1.2
58	18.7	20.2	20.1	21.0	2.3
59	19.4	20.1	20.1	20.7	1.3
60	18.9	20.4	20.6	21.0	2.1
61	19.9	19.5	19.8	20.3	0.8
62	19.0	19.7	20.4	20.7	1.7
63	19.7	19.8	20.0	20.6	0.9
64	18.5	19.4	19.7	19.9	1.4
65	20.3	20.9 21.6	20.9 21.4	<u>21.4</u> 21.9	1.1
66	20.5	20.9		21.9	1.4
67	20.7		20.5	20.2	0.8
71 72	19.4	20.1	19.7	20.2	1.2
73	18.8	19.0	19.7	19.1	0.8
74	18.7	19.1	19.5	19.1	0.8
75	18.7	19.5	19.4	19.2	0.8
76	18.5	19.4	19.0	10.7	0.9
78	18.2	18.5	18.8	19.0	0.8
	10.2				
		<u> </u>	I		
		· · · · · · · · · · · · · · · · · · ·	l		
				1	
				<u> </u>	
			: {		
		per en			
			·		
		i Lan ana ann i an Anna ann an Anna ann an Anna A	· · · · · · · · · · · · · · · · · · ·		
· · · · · · · · · · · · · · · · · · ·			i	1 i	
			· · · · · · · · · · · · · · · · · · ·	·	
	· · · · · · · · · · · · · · · · · · ·	L	+ · · · · · · · · · · · · · · · · · · ·		
· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·		
	· · · · · · · · · · · · · · · · · · ·		k		
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·					nation in a management and income in a
				· · · · · · · · · · · · · · · · · · ·	
				•	
			· · · · · · · · · · · · · · · · · · ·		
WORST	CASE MEASUREMENT	DATA - WITHIN RAT	ED ACCURACY OF ME	ASURING DEVICE :	±.75 dB
	RECORD			CORD 3	RECORD 4
west Visual Carrier				18.8] Ch. 78	P [18.7] Ch. 75
orst Adj. Carrier De	elta (dB): P [1.8] Ch			L.3] Ch. 16	P [1.5] Ch. 64
x-Min Carrier Delt	a (dB): P [4.6] Ch	. 11778 P [4.7]	Ch. 12/78 P [4	4.4] Ch. 12/78	P [4.7] Ch. 12/75
Hour Delta: PAS	S [2.3 dB] Ch. 58				
······································					
PASS					
con Cable					

Proof-It 3.0.8 - Ser.# P300A0545

Date: 01/20/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #1 Smith Drive Platts

CHANNEL	CURRENT (dBmv)	PREVIOUS (dBmv)	DELTA (dB)
2 3	$\frac{20.2}{20.9}$	20.9	0.7
4	20.9	22.9	1.8
5	21.0	22.4	1.3
6	20.7	21.9	1.2
95	20.3	21.5	1.2
96	20.9	21.7	0.8
98	20.4	21.7	1.3
99	20.2	21.3	1.1
14	20.9	21.2	0.3
15	21.0	21.1	0.1
16	20.5	20.2	0.3
17	21.5	21.7	0.2
18	21.7	21.7	0.0
$\frac{20}{21}$	22.1	21.8	0.3
21	<u>22.1</u> 22.0	22.0 22.1	0.1
22	22.0	22.1 21.9	0.1
	22.2	22.1	0.0
9	22.6	21.9	0.7
10	22.0	22.1	0.1
10	22.8	22.2	0.6
12	22.7	22.0	0.7
13	22.3	21.5	0.8
23	21.9	21.4	0.5
24	22.3	21.4	0.9
25	21.2	21.3	0.1
26	21.4	20.5	0.9
27	20.8	20.4	0.4
28	21.7	20.6	<u>l.1</u>
29	20.9	20.5	0.4
30	21.6	20.1	1.5
31 32	21.1 21.5	19.5 19.8	1.6
32 33	19.9	19.8	0.1
34	20.9	20.0	0.9
35	20.2	19.7	0.5
36	20.9	18.9	2.0
37	20.0	19.4	0.6
38	20.9	19.7	1.2
39	20.2	18.9	1.3
40	20.5	18.7	1.8
42	20.1	18.4	1.7
43	20.4	18.6	1.8
44 45	20.1	18.0	2.1
	20.2	17.5	2.7
Lowest Visual Worst Adj. Ca Max-Min Carr	19.8         CURRENT DATA - WITHIN RA         CURRENT J         Carrier (dBmy): P [18.2] Ch.         P [18.2] Ch.         rrier Delta (dB): P [1.8] Ch. (rier Delta (dB): P [4.6] Ch.         P [4.6] Ch.         Ch.         COLSPANE"         Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspa="2"Colspa="2"Colspa="2"Colspan="2"Colspan="2"Colspa="2"Colspa="2"	RECORD         PREVIOU           78         P [12.4]           64         P [1.8] C	<u>US RECORD</u> Ch. 78 Ch. 2
······	:: PASS [5.8 dB] Ch. 78		
ASS			

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01/20/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #1 Smith Drive Platts

. .

F

OTANNE	CURRENT (dBmv)	PREVIOUS (dBmv)	DELTA (dB)
CHANNEL 47	20.0	17.9	2.1
49	19.9	17.5	2.4
50	19.8	17.2	2.6
51 52	20.1 19.2	17.7 17.8	2.4
54	19.2	16.7	2.2
55	19.9	17.1	2.8
56	18.3	17.3	1.0
57	19.6	17.1	2.5
58	18.7	17.3	1.4
59 60	19.4 18.9	15.9 15.6	3.5 3.3
61	18.9	15.0	4.()
62	19.0	16.4	2.6
63	19.7	15.8	3.9
64	18.5	15.8	2.7
65	20.3	16.3	4.0
66	20.5	16.3	4.2
<u> </u>	20.7	15.4	5.3 4.6
70	19.8	13.2	4.8
70	19.4	14.3	5.1
72	18.8	14.0	4.8
73	18.7	13.6	5.1
74	18.7	13.6	5.1
75 76	18.5	13.4	5.1 5.4
78	18.5	12.4	5.8
WORST CASE MI	CASUREMENT DATA - WITHIN RA	TED ACCURACY OF MEASU	JRING DEVICE ± .75 dB
Worst Adj. Max-Min C	ual Carrier (dBmv): $P + 18.2$ [Ch. Carrier Delta (dB): P + 1.8 ] Ch. ( Carrier Delta (dB): P + 4.6 ] Ch.	78         P         112.4           54         P         [1.8]	Ch. 78
6 Month D	elta: PASS [5.8 dB] Ch. 78		
			······································
SS			

Proof-It 3.0.8 - Ser.# P300A0545

### Date: 01-20-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #1 Smith Drive

CHANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)
2	20.2	5.7	- 14.5
3	20.9	7.7	13.2 11.5
4	21.6	10.1	11.5
5	21.1	6.1	15.0
6	20.7	<u>6.0</u> <u>6.3</u>	<u>14.7</u> 14.1
98	20.4		
99 14	20.2 20.9	<u>6.3</u> <u>6.6</u>	13.9 14.3
14	20.9	7.3	14.3
15	20.5	6.2	13.7
10	20.5	6.7	14.5
18	21.5	7.3	14.8
20	22.1	7.5	14.6
21	22.1	7.5	14.6
22	22.0	8.4	13.6
7	21.9	7.4	14.5
	22.2	5.5	16.7
9	22.6	8.1	14.5
10	22.2	8.4	13.8
11	22.8	7.4	15.4
12	22.7	8.8	13.9
13	22.3	7.6	14,7
23	21.9	7.7	14.2
24	22.3	7.4	14.9
25	21.2	7.5	13.7
26	21.4	6.9	14.5
27	20.8	8.0	12.8
28	21.7	6.8	14.9
<u>29</u> 30	20.9 21.6	7.3	13.6 14.9
30	21.0	7.3	13.8
32	21.5	6.2	15.8
33	19.9	6.1	13.8
34	20.9	6.6	14.3
35	20.2	6.6	13.6
36	20.9	5.9	15.0
37	20.0	5.8	14.2
38	20.9	6.4	14.5
44	20.1	6.3	13.8
46	19.8	6.3	13.5
47	20.0	5.1	14.9
49	19.9	4.4	15.5
50	19.8	5.4	14.4
<u>51</u> 52		4.7	15.4
52		5.8	13.4
55	18.9	6.0	12.9
· · · · · · · · · · · · · · · · · · ·			
· · · · · · · · · · · · · · · · · · ·	REMENT DATA - WITHIN RAT Lowest Visual Carrier (dB Worst Upper V/A Ratio (d Worst Lower V/A Ratio (d	mv): P [18.2] Ch. 78 B): · · · P [16.7] Ch. 8	15.5 JRING DEVICE ±.75
	Worst Adj. Carrier Delta ( Max-Min Carrier Delta (d	dB): P[1.8] Ch. 64	
ASS			

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01-20-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #1 Smith Drive

CHANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)
56	18.3	5.1	<u> </u>
57	19.0	5.6	13.1
59	19.4	4.1	15.3
60	18.9	5.8	13.1
61	19.9	5.2	14.7
62	19.0	5.9	13.1
63	19.7	5.0	14.7
64	18.5	5.4 5.9	13.1 14.4
65 66	20.5	6.3	14.4
67	20.5	5.8	14.9
71	19.4	5.3	14.1
72	18.8	4.2	14.6
73	18.7	4.8	13.9
74	18.7	4.1	14.6
75 76	18.5	4.7	13.8
78	18.2	3.9	14.3
/ U	10.4		11.J
		······	-
			; 
1 m			· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
· ·			
······································			
	 	· • • • • • • • • • • • • • • • • • • •	
		· • • • • • • • • • • • • • • • • • • •	
	1		-
			· •
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	···· ··· · · · · · · · · · · · · · · ·
		·····	
-		in an	
	1 	· · · · · · · · · · · · · · · · · · ·	
WORST CASE MEASUR	REMENT DATA - WITHIN RA	TED ACCURACY OF MEAS	URING DEVICE + 75 dB
			······································
	Lowest Visual Carrier (dl	Bmv): P [18.2] Ch. 78	
a gan a sa  <ul> <li>Worst Upper-V/A Ratio (</li> </ul>	dB): P {16.7] Ch. 8	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	
	Worst Lower V/A Ratio (	dB): P [11.5] Ch. 4	
	Worst Adj. Carrier Delta		
	Max-Min Carrier Delta (o	dB): P [4.6] Ch. 11/78	
	9 maa ahaa ahaa ahaa ahaa ahaa ahaa ahaa		
			······································
PASS			
·			
ıble			

# FCC Compliance 76.605(a) - (3), (7), (8), (9)(i), (9)(ii), (11)

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01-20-09 Company: Charter Communications Inc. Plattsburgh Test Location: TP #1 Smith Drive Platts

Technician: Bob Greer

CH.	C/N -dBc	CSO -dBc	CTB -dBc	In-Ch (p-v)	Aural Diff kHz	Hum %
4	47.8	66.1	74.8	1.20	+0.000	.7
14	47.5	68.0	66.6	2.10	+0.000	.6
8	47.6	68.5	56.1	1.90	+0.000	.6
9	48.3	71.1	58.3	1.50	+0.000	.8
36	47.5	71.4	59.0	.90	+0.000	.7
39	48.9	68.5	61.7	2.10	+0.000	.7
44	47.2	76.4	56.8	1.70	+0.000	.7
49	46.5	62.8	53.6	2.30	+0.000	.8
54	46.1	66.4	52.9	1.60	+0.000	.8
66	48.2	63.5	52.9	2.00	+0.000	.8
67	48.5	62.2	52.1	1.20	+0.000	.8
116	48.7	58.5	63.2	1.60	+0.000	.9

An asterisk indicates a failed measurement.

MEASUREMENT	MEASUREMENT DEVICE	CAL DATE	SERIAL NO.
CSO/CTB	AGILENT 8591C	07/16/03	4109A04509
Carrier to Noise	TRILITHIC BANDPASS	07/16/03	200102124
Hum Modulation	AGILENT 8591C	07/16/03	4109A04509
Aural Carrier Frequency	AGILENT 8591C	07/16/03	4109A04509
In-Channel Frequency Response	AGILENT 8591C	07/16/03	4109A04509

		· · · · · · · · · · · · · · · · · · ·	······································	······	
Carrier to Noise:	(-46.1 dBc)	Pass	Hum Modulation:	(0.9 %)	Pass
Composite Triple Beat:	(-52.1 dBc)	Pass	Aural Frequency Differe	ence: (0 kHz)	Pass
Composite Second Order:	(-58.5 dBc)	Pass	In-Ch Frequency Respon	nse: (2.3 dB p-y)	Pass

Falcon	Cable
raicon	Cubie

PASS

Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 01-20-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#2 Dixon Point Road

	Time: 11:10	Time: 17:10	Time: 23:10	Time: 05:10	
	Temp: 70.øF	Temp: 17.øF	Temp: 5.2øF	Temp: -8.øF	 
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)	RECORD 4 (dBmv)	
2	21.2	16.2	21.1	20.7	5.0
3	20.5	17.6	20.4	20.2	2.9
4	20.4	15.4	20.3	20.0	5.0
5	20.5	14.9	20.7	20.4	5.8
6	20.6	17.0	20.5	20.0	3.6
98	20.3	14.5	20.4	20.2	5.9
99	20.3	15.3	19.8 20.7	19.8 20.5	5.0 3.2
14	20.7 20.6	17.5	20.7	20.3	3.8
15	20.0	16.9	20.6	20.7	3.4
10	20.2	17.8	20.1	20.1	3.4
17	20.8	17.0	21.0	20.6	$-\frac{3.2}{3.0}$
20	21.6	18.7	21.8	20.0	3.1
21	21.8	19.1	21.9	21.7	2.8
22	21.4	20.0	21.5	21.4	1.5
7	21.3	19.4	21.2	21.1	1.9
8	21.5	18.3	21.4	21.6	3.3
	21.5	19.3	21.5	21.5	2.2
10	21.5	20.1	21.4	21.5	1.4
	21.1	20.6	21.6	21.5	1.0
12	21.7	20.4	21.7	21.8	1.4
13	21.3	21.8	21.6	21.4	0.5
23	21.4	20.5	21.6	21.5	1.1
24	21.7	17.7	21.8	22.0	4.3
25	21.2	20.5	21.5	21.5	1.0
26	20.7	19.2	21.3	21.4	2.2
27	20.2	19.1	21.1	21.1	2.0
28	20.8	19.7	21.0	21.3	1.6
29	20.6	19.4	21.1	21.1	1.7
30	20.2	17.6	20.4	20.5	2.9
31	20.1	17.0	20.7	20.9	3.9
32	20.2	18.8	20.5	20.9	2.1
33	19.8	17.4	20.0	20.0	2.6
34	20.5	20.1	20.9	20.8	0.8
35	20.3	20.5	20.6	20.8	0.5
<u> </u>	20.6	19.0	20.9 21.1	21.0	2.0
38	20.8 21.4	<u>19.8</u> 21.4	21.7	21.1 21.5	1.3
44	21.4 22.6	23.6	23.1	23.1	$\frac{0.3}{1.0}$
44	22.6	22.5	23.0	23.3	0.8
47	22.2	22.6	22.8	23.1	0.8
49	21.3	22.9	21.9	22.0	1.6
50	22.3	21.9	22.5	23.1	1.0
50	21.5	22.5	22.3	22.4	1.0
52	21.8	21.7	22.3	22.5	0.8
54	22.3	19.4	22.9	22.8	3.5
55	22.2	18.6	22.7	23.0	4.4
· · · · · · · · · · · · · · · · · · ·				ante contrator en la Galda como com	and see and the state of the second
WORS	CASE MEASUREMENT	DATA - WITHIN RAT	ED ACCURACY OF M	EASURING DEVICE	± .75 dB
· ···· · · · · · · · · ·				···· ····	
	RECORD	RECOR	RD 2 RE	CORD 3	RECORD 4
owest Visual Carrier	(dBmv): P. [19.8] C			[19.8] Ch. 99	P [19.8] Ch. 99
orst Adj. Carrier De				[1.1] Ch. 64	P [1.2] Ch. 64
1ax-Min Carrier Del	ta (dB): P [3.4] Ch			[3.6] Ch. 65/99	P [4.1] Ch. 66/99
4 Hour Delta: PAS	S 159 dB1 Ch 98				
DICO					
PASS					
lcon Cable		·• ,		$\sigma_{\rm e} = \epsilon$	

Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 01-20-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#2 Dixon Point Road

	Time: 11:10 Temp: 70.øF	Time: 17:10 Temp: 17.øF	Time: 23:10 Temp: 5.2øF	Time: 05:10 Temp: -8.øF	: 
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)	RECORD 4 (dBmv)	DELTA (dB)
56	21.8	. 19.8	22.3	22.5	2.7
57	21.9	21.6	22.2	22.7	1.1
58	22.2	23.1	22.5	22.8	0.9
59	22.0	23.0	22.3	22.8	1.0
60	22.3	23.9	22.5	22.9	1.6
61	22.1	22.0	22.5	22.9	0.9
62	22.0	19.1	22.6	23.0	3.9
63	22.1	22.9	23.1	23.3	1.2
64	21.7	23.7	22.3	22.4	2.0
65	22.4	24.4	23.4	23.6	2.0
66	23.2	26.6	23.4	23.9	3.4
67	22.3	25.4	22.7	23.1	3.1
71	21.1	25.1	22.0	22.2	4.0
72	21.4	26.3	21.7	22.2	4.9
73	20.7	22.6	21.2	21.5	1.9
74	20.9	21.3	21.8	22.1	1.2
75	21.2	23.5	21.7	22.3	2.3
76	20.6	20.9	21.1	21.4	0.8
78	19.8	21.5	20.8	21.3	1.7
				1	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				••••••••••••••••••••••••••••••••••••••
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	······································	
					· · · · · · · · · · · · · · · · · · ·
			4		
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			
	· · · · · · · · · · · · · · · · · · ·	l			
	· · · · · · · · · · · · · · · · · · ·				
				· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·	·····		
· · · · · · · · · · · · · · · · · · ·					
		······································		· · · · · · · · · · · · · · · · · · ·	
		 			engen oo oo oo oo oo
		i Jan 1999 - Constant State - Stat			da a a consta
WORST	CASE MEASUREMENT	DATA - WITHIN RAT	ED ACCURACY OF MI	EASURING DEVICE	75 dB
ownet Wiener Coming	RECORD			CORD 3	RECORD 4
West Visual Carrier Vorst Adj. Carrier Del Aax-Min Carrier Delta		. 49 P [3.8]	Ch. 62 P [	19.8] Ch. 99 1.1] Ch. 64 3.6] Ch. 65/99	P [19.8] Ch. 99 P [1.2] Ch. 64 P [4.1] Ch. 66/99
4 Hour Delta: PASS			1	, Cii 00/27	- (+.1) Cit. 00/95
PASS					
alcon Cable					
	· · · ·				

Proof-It 3.0.8 - Ser.# P300A0545

Date: 1/20/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#2 Dixon Point Rd Beekman

CHANNEL	CURRENT (dBmv)	PREVIOUS (dBmv)	DELTA (dB)
2	21.2	20.2	1.0
3	20.5	21.2	0.7
4	20.4	20.4	$\frac{0.0}{0.1}$
5	20.5	20.4	
6	$\frac{20.6}{20.0}$	20.7 20.7	0.1 0.7
95	20.0	20.7	0.7
98	20.3	20.8	0.2
90	20.3	20.3	0.1
14	20.3	20.4	0.1
15	20.6	20.7	0.1
15	20.2	20.1	0.1
17	20.8	20.8	0.0
18	20.9	20.9	0.0
20	21.6	21.2	0.4
21	21.8	21.1	0.7
22	21.4	20.6	0.8
7	21.3	20.9	0.4
8	21.5	21.0	0.5
9	21.5	20.9	0.6
10	21.4	20.9	0.5
<u>11</u> 12	21.1 21.7	21.0 21.4	0.1
12	$\frac{21.7}{21.3}$	20.9	0.3
23	21.3	21.0	0.4
25	21.7	21.0	0.4
25	21.2	20.7	0.5
26	20.7	20.8	0.1
27	20.2	20.4	0.2
28	20.8	20.1	0.7
29	20.6	19.8	0.8
30	20.2	20.0	0.2
31	20.1	20.0	0.1
32	20.2	19.6	0.6
33	19.8	19.3	0.5 0.9
34 35	20.5 20.3	19.6	
36	20.5	19.5	0.8 1.2
37	20.8	19.4	1.2
38	20.8	19.5	1.5
39	21.4	20.6	0.8
40	21.7	20.9	0.8
42	22.0	21.0	1.0
43	22.6	22.0	0.6
44	22.6	21.9	0.7
45	22.9	22.1	0.8
46	22.6	22.0	0.6
WORST CASE MEASI	JREMENT DATA - WITHIN RA	TED ACCURACY OF MEASU	RING DEVICE ±.75 d
······			
Lowest Visual (	Currier (dBmv): P [19.8] Ch	. 33 P [18.8]	US RECORD
	rier Delta (dB): $P [1.0]$ Ch.		ун./0 . °h-?
Max-Min Carri			
6 Month Delta:	PASS [2.5 dB] Ch. 58		
ASS			

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 1/20/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#2 Dixon Point Rd Beekman

47       22.2       21.5       0.7         50       22.3       20.9       1.4         51       21.5       20.7       0.8         52       21.8       20.7       1.6         55       22.3       20.7       1.6         55       22.3       20.7       1.6         55       22.2       20.3       1.4         56       21.8       20.7       1.1         57       21.0       20.7       1.2         58       22.2       10.7       2.5         59       22.0       20.3       1.7         60       22.3       20.4       1.9         61       22.1       20.4       1.7         62       22.0       20.5       1.6         64       21.7       20.5       1.6         65       23.3       20.8       1.5         68       22.6       20.8       1.3         70       21.4       20.5       1.3         71       21.1       19.9       1.6         74       20.0       1.4       2.5         75       21.2       19.7       1.5				· · · · · · · · · · · · · · · · · · ·	
49       21.3       21.2       0.1         50       22.3       20.9       1.4         51       21.5       20.7       0.8         54       22.3       20.8       1.1         55       22.2       20.8       1.4         56       21.8       20.7       1.4         56       21.8       20.7       1.4         57       21.9       20.7       1.1         58       22.2       19.7       2.5         59       22.0       20.3       1.7         60       22.3       20.4       1.9         61       22.1       20.6       1.4         62       20.0       20.6       1.4         63       22.1       20.7       1.0         64       21.7       20.7       1.0         65       23.4       21.0       1.4         66       23.2       21.1       2.1         71       21.1       19.9       1.2         72       21.4       20.0       1.4         73       20.7       19.1       1.6         74       20.9       1.2       1.1			CURRENT (dBmv)	PREVIOUS (dBmv)	<u>DELTA (dB)</u> ().7
51         21.5         20.7         0.8           54         22.3         20.8         1.4           56         21.8         20.7         1.4           56         21.8         20.7         1.2           58         22.2         20.8         1.4           56         21.8         20.7         1.2           59         22.0         20.3         1.7           60         22.3         20.4         1.9           61         22.1         20.4         1.7           62         22.0         20.6         1.4           63         22.3         20.4         1.7           66         22.3         20.4         1.7           66         22.3         20.4         1.4           67         22.3         20.8         1.4           67         22.3         20.8         1.8           71         21.1         19.9         1.2           72         21.4         20.0         1.4           73         20.7         19.1         1.6           74         20.9         19.5         1.4           75         21.2         19.7<			21.3	21.2	
52         21.8         20.5         1.6           55         22.2         20.8         1.4           56         21.8         20.7         1.1           57         21.9         30.7         1.2           58         22.2         19.7         2.5           59         22.0         20.3         1.7           60         22.3         20.4         1.9           61         22.1         20.4         1.7           62         22.0         20.6         1.4           63         22.1         20.6         1.4           64         21.7         20.5         1.6           64         21.7         20.7         1.0           68         22.2         20.8         1.4           70         21.1         21.1         21.1           71         21.1         19.9         1.2           72         21.4         20.0         1.4           73         20.7         19.1         1.6           74         20.9         19.5         1.4           75         21.2         19.7         1.5           76         20.6         19.5					
54         22.3         20.7         16           55         22.2         20.8         1.1           57         21.9         20.7         1.2           59         22.0         20.3         1.7           59         22.0         20.3         1.7           60         22.3         20.4         1.9           61         22.1         20.4         1.9           62         22.0         20.6         1.4           63         22.1         20.6         1.4           63         22.1         20.5         1.6           64         21.7         20.7         1.0           65         22.4         21.0         1.4           66         35.2         21.1         2.1           71         21.1         19.9         1.2           72         21.4         20.0         1.4           73         20.7         19.1         1.6           74         20.9         19.5         1.1           75         31.2         19.7         1.5           76         20.6         19.5         1.1           78         19.8         1.0 <td></td> <td>the second second second second second</td> <td></td> <td>I have a second se</td> <td>0.8</td>		the second second second second second		I have a second se	0.8
55         22.2         20.8         1.4           56         21.8         20.7         1.1           57         21.9         20.7         1.2           58         22.2         19.7         2.5           59         22.0         20.3         1.7           60         22.3         20.4         1.7           61         22.1         20.4         1.7           62         22.0         20.6         1.4           63         22.1         20.5         1.6           64         21.7         20.7         1.0           65         22.4         21.0         1.4           66         23.2         21.1         2.1           68         22.6         20.8         1.8           70         21.1         19.9         1.2           72         21.4         20.0         1.4           73         20.7         19.1         1.6           74         20.0         1.4         1.4           75         21.2         19.7         1.5           76         20.6         19.5         1.4           78         10.8         1.0 <td></td> <td></td> <td></td> <td></td> <td></td>					
56         21.8         20.7         1.1           57         7.19         70.7         1.2           58         22.2         19.7         2.5           39         22.0         20.3         1.7           60         22.3         20.4         1.9           61         22.1         20.6         1.4           62         22.0         20.7         1.0           63         22.1         20.5         1.6           64         21.7         20.7         1.0           65         22.4         21.0         1.4           66         22.2         21.1         21.1           67         22.3         20.7         1.0           68         22.6         20.8         1.8           70         21.8         20.5         1.3           71         21.1         19.9         1.2           72         21.4         20.0         1.4           73         21.2         19.7         1.5           76         20.6         19.5         1.1           78         19.8         18.8         1.0           9.8         18.8         1.0			22.3		
57       11.9       20.7       1.2         58       22.0       20.3       1.7         60       22.3       20.4       1.9         61       22.1       20.4       1.9         62       22.0       20.3       1.7         62       22.0       20.6       1.4         63       22.1       20.5       1.6         64       21.7       20.7       1.0         65       22.4       21.1       2.1         66       23.2       21.1       2.1         66       23.2       21.1       2.1         77       12.3       20.6       1.8         70       12.1       19.9       1.2         72       21.4       20.0       1.4         73       20.7       1.1       1.9         74       20.9       19.5       1.4         75       31.2       19.7       1.5         76       20.6       19.5       1.1         75       31.2       19.7       1.5         76       20.6       19.5       1.1         78       19.8       18.8       1.0 <td< td=""><td></td><td></td><td></td><td>and the second second second second second second second second second second second second second second second</td><td>interes a contrast a second contrast assessment to a second contrast of the</td></td<>				and the second second second second second second second second second second second second second second second	interes a contrast a second contrast assessment to a second contrast of the
38       122       20.       20.3       17         60       22.3       20.4       1.9         61       22.1       20.4       1.7         62       22.0       20.6       1.4         63       22.1       20.5       1.6         64       11.7       20.7       1.0         65       22.3       20.1       2.1         67       22.3       20.8       1.5         68       22.6       20.8       1.8         70       21.8       20.5       1.3         71       21.4       20.0       1.4         73       20.7       19.1       1.6         74       20.9       19.5       1.4         75       21.2       19.7       1.5         76       20.6       19.5       1.1         78       19.8       18.8       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         Worst Adj: Carrier (dBmy):       P [19.8] Ch. 33       P [19.8] Ch. 2         Worst Adj: Carrier Delta (dB):       P [13.4] Ch. 6/33       P [13.3] Ch. 45/78         6 Month Delta:       P ASS [2.5 dB] Ch. 38       P [3.3] Ch. 45			21.8		
59       22.0       20.3       17         60       22.3       20.4       1.9         61       22.1       20.6       1.4         62       22.0       20.6       1.4         63       22.1       20.7       1.0         64       11.7       20.7       1.0         65       22.4       21.0       1.4         66       23.2       21.1       2.1         67       22.3       20.8       1.8         70       1.1       19.9       1.2         72       21.4       20.0       1.4         73       20.7       19.1       1.6         74       20.9       19.5       1.4         75       21.2       19.7       1.3         76       20.6       19.5       1.1         75       21.2       19.7       1.3         76       20.6       19.5       1.1         78       19.8       18.8       1.0         CURRENT RECORD         P       19.8       18.8         Lowest Visual Carrier (dBmy):       P       19.8         Worst Adj: Carrier Delia (dB):       P <td></td> <td></td> <td></td> <td></td> <td>25</td>					25
60       12.3       20.4       1.9         61       122.1       20.4       1.7         62       17       20.5       1.6         64       1.7       20.7       1.0         65       1.7       20.7       1.0         66       23.2       21.1       2.1         67       22.3       20.8       1.5         68       22.6       20.8       1.3         70       1.8       20.5       1.3         71       1.1       1.9.9       1.2         72       21.4       20.0       1.4         73       20.7       19.1       1.6         74       20.9       19.5       1.4         75       11.2       19.7       1.5         76       20.6       19.5       1.1         78       19.8       18.8       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE = .75 dB         CURRENT RECORD         Norst Adj: Carrier OdBmvi       P [19.8] Ch. 33         P       18.8] Ch. 78       P 11.0] Ch. 2         Max-Min Carrier Odta (dB):       P [1.0] Ch. 95       P 11.0] Ch. 2					17
61       12.1       20.4       1.7         63       22.1       20.5       1.6         64       11.7       20.7       1.0         65       12.4       1.0       1.4         66       13.2       21.1       2.1         67       22.3       20.8       1.5         68       22.6       20.8       1.8         70       12.1       19.9       1.2         72       21.4       20.0       1.4         73       20.7       1.1       1.9         74       20.9       1.5       1.4         75       1.1.1       19.9       1.2         75       1.1.2       19.7       1.5         76       20.6       19.5       1.4         75       1.1.7       1.5       1.1         76       20.6       19.5       1.1         78       19.8       18.8       1.0         CURRENT BATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         KWORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         Lowest Visual Carrier (dBmy)         VILO IN 52					
62       22.0       20.6       1.4         63       22.1       20.5       1.6         64       21.7       20.7       1.0         65       22.4       21.0       1.4         66       23.3       21.1       2.1         67       22.3       20.8       1.5         68       22.6       20.8       1.8         70       21.8       20.5       1.3         71       21.1       1.9.9       1.2         72       21.4       20.0       1.4         73       20.7       19.1       1.6         74       20.9       19.5       1.4         75       21.2       19.7       1.3         76       20.6       19.5       1.1         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.5       1.0         79       19.8       18.5       1.0         79       19.8       18.5       1.0         <	:	for a second sec	22.1		and the second second second second second second second second second second second second second second second
64       21.7       20.7       1.0         65       22.4       21.0       1.4         66       23.2       21.1       2.1         67       22.3       20.8       1.5         68       22.6       20.8       1.8         70       21.8       20.5       1.3         71       21.1       19.9       1.2         72       21.4       20.0       1.4         73       20.7       15.1       1.6         74       20.9       19.5       1.4         75       21.2       19.7       1.5         76       20.6       19.5       1.1         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         79       1.1       1.4       1.4         70       1.5       1.4       1.4         71       1.6       1.4       1.4         74 <td></td> <td></td> <td>22.0</td> <td></td> <td></td>			22.0		
65       22.4       21.0       1.4         66       23.2       21.1       2.1         67       22.3       20.8       1.5         68       22.6       20.8       1.3         70       21.8       20.5       1.3         71       21.1       19.9       1.2         72       21.4       20.0       1.4         73       20.7       19.1       1.6         74       20.9       19.5       1.4         75       21.2       19.7       1.5         76       20.6       19.5       1.1         78       19.8       18.8       1.0			22.1	20.5	1.6
66       23.2       21.1       2.1         67       22.3       20.8       1.5         68       22.6       20.8       1.8         70       21.4       20.5       1.3         71       121.1       19.9       1.2         72       21.4       20.0       1.4         73       20.7       19.1       1.6         74       20.9       19.5       1.4         75       21.2       19.7       1.5         76       20.6       19.5       1.1         78       19.8       18.8       1.0		and a set of the second s			
67         22.3         20.8         1.3           70         21.8         20.5         1.3           71         21.4         20.0         1.4           73         20.7         19.1         1.6           74         20.9         19.5         1.4           75         21.2         19.7         1.5           76         20.6         19.5         1.1           78         19.8         18.8         1.0	) 		22.4		
68         22.6         20.8         1.8           70         21.8         20.5         1.3           71         21.1         19.9         1.2           72         21.4         20.0         1.4           73         20.7         19.1         1.6           74         20.9         10.5         1.4           75         21.2         19.7         1.5           76         20.6         19.5         1.1           78         19.8         18.8         1.0					
70       21.8       20.5       1.3         71       21.1       19.9       1.2         72       21.4       20.0       1.4         73       20.7       19.1       1.6         74       20.9       19.5       1.4         75       21.2       19.7       1.5         76       20.6       19.5       1.1         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         79       1.1       1.5       1.1         78       19.8       18.8       1.0         79       1.3       1.0       1.0         70       1.2       1.0       1.5         76       20.6       19.5       1.1         78       19.8       1.8       1.0         79       1.1       1.5       1.0         70       1.1       1.1       1.1         71       1.1       1.2       1.1         71       1.1       1.1       1.1         70					
71       21.1       19.9       1.2         72       21.4       20.0       1.4         73       20.7       19.1       1.6         74       20.9       19.5       1.4         75       21.2       19.7       1.5         76       20.6       19.5       1.1         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         79       19.7       1.5       1.1         78       19.8       18.8       1.0         79       19.8       18.8       1.0         79       19.7       1.5       1.1         78       19.8       1.0       1.0         79       19.8       1.0       1.0         79       1.1       1.0       1.0       1.0         79       1.0       1.0       1.0       1.0         79       1.1       1.0       1.0	}				
72       21.4       20.0       1.4         73       20.7       19.1       1.6         74       20.9       19.5       1.4         75       21.2       19.7       1.5         76       20.6       19.5       1.1         78       19.8       18.8       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         CURRENT RECORD         Powest Visual Carrier (dBmv):       P   19.8] Ch. 33         Worst Adj. Carrier Oelta (dB):       P   10.0] Ch. 95       P   18.8] Ch. 78         Worst Adj. Carrier Delta (dB):       P   10.1 Ch. 95       P   10.0] Ch. 2         Max-Min Carrier Delta (dB):       P   13.4] Ch. 66/33       P   13.3] Ch. 45/78         6 Month Delta:       PASS   2.5 dB   Ch. 58					
73       20.7       19.1       1.6         74       20.9       19.5       1.4         75       21.2       19.7       1.5         76       20.6       19.5       1.1         78       19.8       18.8       1.0         Worst Case Measurement Data - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         CURRENT RATED ACCURACY OF MEASURING DEVICE ± .75 dB         Worst Case Measurement Data - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         CURRENT RECORD         P       118.8       Ch. 78         Worst Adj. Carrier Delta (dB):       P       11.0       Ch. 2         Max-Min Carrier Delta (dB):       P       11.0       Ch. 66/33       P         6 Month Delta:       PASS [2.5 dB] Ch. 58       S       S					The second s
74       20.9       19.5       1.4         75       21.2       19.7       1.5         76       20.6       19.5       1.1         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         78       19.8       18.8       1.0         79       19.7       1.5       1.1         78       19.8       18.8       1.0         78       19.8       18.8       1.0         79       19.7       1.5       1.1         78       19.8       18.8       1.0         79       19.1       19.7       1.5         70       1.4       19.8       1.0         70       1.5       1.0       1.0         70       1.1       19.8       1.1         70       1.1       1.1       1.0         71       1.1       1.1       1.1         72       1.1       1.1       1.1         73       1.1       1.1       1.1         74       1.1       1.1       1.1         70       <					
75       21.2       19.7       1.5         76       20.6       19.5       1.1         78       19.8       18.8       1.0         78       19.8       18.8       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         CURRENT RECORD         P       19.8       19.7         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         CURRENT RECORD         P       19.8         Worst Adj: Carrier (dBmv):       P         P       19.8         Worst Adj: Carrier Delta (dB):       P         P       19.4         P       19.4         P       19.4         CLORENT RECORD       P         P       11.0         Max-Min Carrier Delta (dB):       P         P       13.4         Ch. 58       P			20.9		
78       19.8       18.8       1.0         ISS         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         CURRENT RECORD         PREVIOUS RECORD         Lowest Visual Carrier (dBmv):         P       [19.8] Ch. 33         P       [18.8] Ch. 78         Worst Adj: Carrier Delta (dB):       P         P       [1.0] Ch. 2         Max-Min Carrier Delta (dB):       P         P       [3.4] Ch. 66/33         6 Month Delta:       PASS [2.5 dB] Ch. 58		75	21.2	19.7	1.5
WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         CURRENT RECORD         Lowest Visual Carrier (dBmv):         P       [19.8] Ch. 33         P       [18.8] Ch. 78         Worst Adj: Carrier Delta (dB):       P         P       [1.0] Ch. 95         Max-Min Carrier Delta (dB):       P         P       [3.4] Ch. 66/33         P       [3.3] Ch. 45/78         6 Month Delta:       PASS         NSS					1.1
CURRENT RECORD         PREVIOUS RECORD           Lowest Visual Carrier (dBmv):         P [19.8] Ch. 33         P [18.8] Ch. 78           Worst Adj. Carrier Delta (dB):         P [1.0] Ch: 95         P [1.0] Ch. 2           Max-Min Carrier Delta (dB):         P [3.4] Ch. 66/33         P [3.3] Ch. 45/78           6 Month Delta:         PASS [2.5 dB]         Ch. 58		78	19.8	18.8	1.0
CURRENT RECORD         PREVIOUS RECORD           Lowest Visual Carrier (dBmv):         P [19.8] Ch. 33         P [18.8] Ch. 78           Worst Adj. Carrier Delta (dB):         P [1.0] Ch. 95         P [1.0] Ch. 2           Max-Min Carrier Delta (dB):         P [3.4] Ch. 66/33         P [3.3] Ch. 45/78           6 Month Delta:         PASS [2.5 dB] Ch. 58         P [3.3] Ch. 45/78					
CURRENT RECORD         PREVIOUS RECORD           Lowest Visual Carrier (dBmv):         P [19.8] Ch. 33         P [18.8] Ch. 78           Worst Adj. Carrier Delta (dB):         P [1.0] Ch: 95         P [1.0] Ch. 2           Max-Min Carrier Delta (dB):         P [3.4] Ch. 66/33         P [3.3] Ch. 45/78           6 Month Delta:         PASS [2.5 dB]         Ch. 58				· · · · · · · · · · · · · · · · · · ·	
CURRENT RECORD         PREVIOUS RECORD           Lowest Visual Carrier (dBmv):         P [19.8] Ch. 33         P [18.8] Ch. 78           Worst Adj. Carrier Delta (dB):         P [1.0] Ch: 95         P [1.0] Ch. 2           Max-Min Carrier Delta (dB):         P [3.4] Ch. 66/33         P [3.3] Ch. 45/78           6 Month Delta:         PASS [2.5 dB]         Ch. 58	6 7		·		
CURRENT RECORD         PREVIOUS RECORD           Lowest Visual Carrier (dBmv):         P [19.8] Ch. 33         P [18.8] Ch. 78           Worst Adj. Carrier Delta (dB):         P [1.0] Ch: 95         P [1.0] Ch. 2           Max-Min Carrier Delta (dB):         P [3.4] Ch. 66/33         P [3.3] Ch. 45/78           6 Month Delta:         PASS [2.5 dB]         Ch. 58			<u> </u>		
CURRENT RECORD         PREVIOUS RECORD           Lowest Visual Carrier (dBmv):         P [19.8] Ch. 33         P [18.8] Ch. 78           Worst Adj. Carrier Delta (dB):         P [1.0] Ch: 95         P [1.0] Ch. 2           Max-Min Carrier Delta (dB):         P [3.4] Ch. 66/33         P [3.3] Ch. 45/78           6 Month Delta:         PASS [2.5 dB]         Ch. 58		······································		······································	in the second second second second second second second second second second second second second second second
CURRENT RECORD         PREVIOUS RECORD           Lowest Visual Carrier (dBmv):         P [19.8] Ch. 33         P [18.8] Ch. 78           Worst Adj. Carrier Delta (dB):         P [1.0] Ch: 95         P [1.0] Ch. 2           Max-Min Carrier Delta (dB):         P [3.4] Ch. 66/33         P [3.3] Ch. 45/78           6 Month Delta:         PASS [2.5 dB]         Ch. 58			······		······································
CURRENT RECORD         PREVIOUS RECORD           Lowest Visual Carrier (dBmv):         P [19.8] Ch. 33         P [18.8] Ch. 78           Worst Adj. Carrier Delta (dB):         P [1.0] Ch: 95         P [1.0] Ch. 2           Max-Min Carrier Delta (dB):         P [3.4] Ch. 66/33         P [3.3] Ch. 45/78           6 Month Delta:         PASS [2.5 dB]         Ch. 58					
Lowest Visual Carrier (dBmv): P [19.8] Ch. 33 P [18.8] Ch. 78 Worst Adj. Carrier Delta (dB): P [1.0] Ch. 95 P [1.0] Ch. 2 Max-Min Carrier Delta (dB): P [3.4] Ch. 66/33 P [3.3] Ch. 45/78 6 Month Delta: PASS [2.5 dB] Ch. 58	WORST (	CASE MEASUR	EMENT DATA - WITHIN RA	TED ACCURACY OF MEASU	JRING DEVICE ± .75 dB
\SS	We Ma	orst Adj. Carrie 1x-Min Carrier	rrier (dBmv): P [19.8] Ch. r Delta (dB): P [1.0] Ch. 9 Delta (dB): P [3.4] Ch. 6	33         P         18.8           95         P         [1.0]	J Ch. 78 Ch. 2
	6 N	Aonth Delta: F	PASS [2.5 dB] Ch. 58		
e	ASS				
	le				

Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 01-20-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#2 Dixon Point

	Time: 11:10	Time: 17:10 Time: 23:10		Time: 05:10	: !
CHANNEL	Temp: 70.øF RECORD 1 (dBmv)	Temp: 17.øF	Temp: 5.2øF RECORD 3 (dBmv)	Temp: -8.øF RECORD 4 (dBmv)	DELTA (dB)
2	21.2	16.2	21.1	20.7	5.0
3	20.5	17.6	20.4	20.2	2.9
4	20.4	15.4	20.3	20.0	5.0
5	20.5	14.9	20.7	20.4	5.8
6	20.6	17.0	20.5	20.0 20.2	3.6 5.9
<u>98</u> 99	20.3	14.5 15.3	19.8	19.8	5.0
14	20.7	17.5	20.7	20.5	3.2
15	20.6	16.9	20.6	20.7	3.8
16	20.2	16.8	20.1	20.1	3.4
17	20.8	17.8	20.9	21.0	3.2
18	20.9	18.0	21.0	20.6	3.0
20 21	21.6 21.8	18.7 19.1	21.8	21.7 21.7	3.1 2.8
21	21.8	20.0	21.9	21.7	1.5
7	21.4	19.4	21.3	21.4	1.5
8	21.5	18.3	21.4	21.6	3.3
9	21.5	19.3	21.5	21.5	2.2
10	21.4	20.1	21.4	21.5	1.4
11	21.1	20.6	21.6	21.5	1.0
12	21.7	20.4	21.7	21.8	1.4
<u> </u>	21.3	21.8 20.5	21.6	21.4 21.5	0.5
23	21.4	17.7	21.8	21.5	4.3
25	21.2	20.5	21.5	21.5	1.0
26	20.7	19.2	21.3	21.4	2.2
27	20.2	19.1	21.1	21.1	2.0
28	20.8	19.7	21.0	21.3	1.6
29	20.6	<u> </u>	21.1 20.4	21.1	1.7
31	20.2	17.0	20.4	20.5	2.9 3.9
32	20.2	18.8	20.5	20.9	2.1
33	19.8	17.4	20.0	20.0	2.6
34	20.5	20.1	20.9	20.8	0.8
35	20.3	20.5	20.6	20.8	0.5
36	20.6	19.0	20.9	21.0	2.0
37 38	20.8	<u>19.8</u> 21.4	21.1 21.7	21.1 21.5	1.3
44	22.6	23.6	23.1	23.1	0.3
46	22.6	22.5	23.0	23.3	0.8
47	22.2	22.6	22.8	23.1	0.9
49	21.3	22.9	21.9	22.0	1.6
50	22.3 21.5	21.9	22.5 22.3	23.1	1.2
51	21.5	22.5 21.7	22.3	22.4 22.5	1.0
54	22.3	19.4	22.9	22.5	0.8
55	22.2	18.6	22.7	23.0	4.4
WORS	T CASE MEASUREMENT	`DATA - WITHIN RAT	ED ACCURACY OF M		± .75 dB
west Visual Carrie		h. 33 P (14.5	5] Ch. 98 P.	<u>CORD 3</u> [19.8] Ch. <u>9</u> 9	<u>RECORD 4</u> P [19.8] Ch. 99
orst Adj. Carrier D ax-Min Carrier Del Hour Dalta: DAS	ta (dB): P [3.4] Ch		Ch. 62 P	[1.1] Ch. 64 [3.6] Ch. 65/99	P [1.2] Ch. 64 P [4.1] Ch. 66/99
	S [5.9 dB] Ch. 98				
PASS					
lcon Cable					

------

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01-20-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#2 Dixon Point

Technician: Bob Greer Equipment: 3010R Calibration Date: 07/2008

	Time: 11:10	Time: 17:10	Time: 23:10	Time: 05:10	]
	Temp: 70.øF	Temp: 17.øF	Temp: 5.2øF	Temp: -8.øF	· •
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)	RECORD 4 (dBmv)	DELTA (dB)
56	21.8	19.8	22.3	22.5	2.7
57	21.9	21.6	22.2 22.5	22.7	1.1 0.9
58 59	22.0	23.0	22.3	22.8	1.0
60	22.3	23.9	22.5	22.9	1.6
61	22.1	22.0	22.5	22.9	0.9
62	22.0	19.1	22.6	23.0	3.9
63	22.1	22.9	23.1	23.3	1.2
64	21.7	23.7	22.3	22.4	2.0
65	22.4	24.4	23.4	23.6	2.0
66	23.2	26.6	23.4	23.9	3.4
67	22.3	25.4	22.7	23.1	3.1
71	21.1	25.1	22.0	22.2	4.0
72 73	21.4	26.3 22.6	21.7 21.2	<u>22.2</u> 21.5	4.9
74	20.7	22.0	21.2	22.1	1.9
75	20.9	23.5	21.8	22.1	2.3
76	20.6	20.9	21.1	21.4	0.8
78	19.8	21.5	20.8	21.3	1.7
	· ·	<u>}</u>			· · · · · · · · · · · · · · · · · · ·
·····					
	····· [ ······························	ļ	<u> </u>		· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·		
					· 
		1			·
		: 			<u> </u>
					<u> </u>
					-
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
		·			
	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		· · · · · ·
· · · · · · · · · · · · · · · · · · ·			Barana ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (		
	······································	   		1	
		•			
· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·
	· · · · · · · · · · · · · · · · · · ·				
			· · · · · · · · · · · · · · · · · · ·	+	
			· · · · · · · · · · · · · · · · · · ·		···· ··· ··· ··· ··· ··· ··· ··· ··· ·
		·			
WORS	I CASE MEASUREMENT	DATA - WITHIN RAT	ED ACCURACY OF M	EASURING DEVICE ±	.75 dB
	RECORD	<u>I RECO</u>	20.2		DECODD 4
owest Visual Carrier				<u>CORD 3</u> [19.8] Ch. 99	RECORD 4
orst Adj. Carrier De			Ch. 62 P		P [1.2] Ch. 64
lax-Min Carrier Del					P [4.1] Ch. 66/99
Hour Delta: PAS					
	5 [J.7 UD] CII. 90				· · · · · · · · · · · · · · · · · · ·
······································					
PASS					
÷					
lcon Cable					

## FCC Compliance 76.605(a) - (3), (7), (8), (9)(i), (9)(ii), (11)

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 1/20/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP # 2 Dixion Point Beekman

Technician: Bob Greer

CH.	C/N -dBc	CSO -dBc	CTB -dBc	In-Ch (p-v)	Aural Diff kHz	Hum %
4	48.2	64.5	66.7	1.40	+0.000	.8
14	48.5	65.8	62.3	2.10	+0.000	.8
8	47.5	69.1	57.2	1.60	-0.100	.7
9	46.2	69.9	62.7	1.60	+0.000	.6
36	48.3	69.0	61.6	1.10	+0.000	.7
39	47.8	68.6	54.7	2.10	+0.000	.8
44	46.4	65.0	54.3	1.70	+0.000	.7
49	49.6	58.9	52.7	2.10	+0.000	.6
54	47.9	64.2	51.7	1.60	+0.000	.7
66	48.1	63.2	56.9	2.30	+0.000	.8
67	46.3	66.3	58.8	1.60	+0.000	.8
116	50.4	65.3	64.1	1.80	+0.000	.6

An asterisk indicates a failed measurement.

PASS

Falcon Cable

MEASUREMENT	MEASUREMENT DEVICE	CAL DATE	SERIAL NO.
CSO/CTB	AGILENT 8591C	07/16/03	4109A04509
Carrier to Noise	TRILITHIC BANDPASS	07/16/03	200102124
Hum Modulation	AGILENT 8591C	07/16/03	4109A04509
Aural Carrier Frequency	AGILENT 8591C	07/16/03	4109A04509
In-Channel Frequency Response	AGILENT 8591C	07/16/03	4109A04509

	Worst Case	Measurement Data	1	
Carrier to Noise:	(-46.2 dBc) Pass	Hum Modulation:	(0.8 %)	Pass
Composite Triple Beat:	(-51.7 dBc) Pass	Aural Frequency Difference	: (0.1 kHz)	Pass
Composite Second Order:	(-58.9 dBc) Pass	In-Ch Frequency Response:	(2.3 dB p-v)	Pass

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01-20-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP # 3 Hammond Street

	Time: 13:10	Time: 19:10	Time: 01:10	Time: 07:10	
	Temp: 64.øF	Temp: 12.øF	Temp: 0 øF	Temp: -6.øF	
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)	RECORD 4 (dBmv)	DELTA (dB)
2	21.7	22.1	22.0 21.4	22.0 21.3	$\frac{0.4}{0.3}$
3	21.3	21.6		21.3	
4	20.9	21.0	21.0	20.9	0.1
5	21.3	21.8	21.5	21.4	0.5 0.7
6	21.7	22.1	21.4	21.8	0.7
98	21.9	22.3	22.2	22.1 22.1	0.4
99 14	21.7	22.1	22.0	22.1 22.8	0.4
	22.4	$\frac{23.0}{22.6}$	22.8 22.6	22.8	0.0
15	22.3 21.8	$\frac{22.6}{22.5}$	22.0	22.8	0.7
16 17	22.5	22.9	23.1	23.1	0.6
17	22.3	22.7	22.6	23.2	0.8
20	22.4	23.3	23.8	24.0	1.6
20	23.3	22.8	24.0	24.0	1.2
22	23.8	23.9	24.0	23.7	0.5
	23.4	23.6	23.7	23.2	0.5
8	23.5	23.0	24.1	23.8	0.6
9	23.0	24.2	24.3	24.1	1.3
10	22.3	24.1	24.5	24.5	2.2
10	23.4	23.7	24.5	24.6	1.2
12	24.4	22.8	24.5	25.0	2.2
13	24.1	23.6	22.4	23.3	1.7
23	24.2	24.3	23.0	22.4	1.9
24	24.6	24.9	24.3	24.0	0.9
25	24.5	24.9	24.8	24.8	0.4
26	24.4	24.6	24.6	24.6	0.2
27	24.3	24.7	24.6	24.4	0.4
28	24.3	24.6	24.6	24.7	0.4
29	24.7	24.7	24.8	25.1	0.4
30	24.5	25.0	24.7	24.8	0.5
31	24.4	24.6	24.3	24.6	0.3
32	24.3	24.3	24.3	24.6	0.3
33	24.2	24.3	24.1	24.4	0.3
34	24.3	24.4	24.7	24.5	0.4
35 36	24.1 24.3	24.6	24.6 24.2	24.6 24.5	0.5
37		24.4	24.2	24.3	0.3
38	24.6	24.8	24.9	24.5	0.3
44	23.4	23.8	23.9	23.9	0.5
46	22.7	23.0	23.2	23.0	0.5
47	22.5	22.6	23.1	23.1	0.5
49	22.0	22.3	22.5	22.6	0.6
50	22.6	23.0	23.2	23.3	0.7
51	22.1	22.4	22.9	22.8	0.8
52	21.9	22.3	22.6	22.6	0.7
54	22.5	23.0	23.3	23.3	0.8
55	22.0	22.5	23.0	22.7	1.0
WORS' west Visual Carrie	F CASE MEASUREMEN <u>RECORD</u> r (dBmv): P [20.0] C	<u>1 RECOI</u>	RECONTRACTOR NO	CORD 3	75 dB RECORD 4
orst Adj. Carrier D 1x-Min Carrier De	elta (dB): P [1.1] Ch	. 10 P [1.1]	Ch. 21 P [	2.1] Ch. 12	P [20.5] Ch. 64 P [1.7] Ch. 12 P [4.6] Ch. 29/64
		<ul> <li>Adda Americanyan Communication (Communication) (C</li></ul>		and a second second second second second second second second second second second second second second second	1999 - Marina Marina, and an an an an an an an an an an an an an
PASS					
con Cable					

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01-20-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP # 3 Hammond Street

	· · · · · · · · · · · · · · · · · · ·	24 HOU	R TEST		
	Time: 13:10 Temp: 64.øF	Time: 19:10 Temp: 12.øF	Time: 01:10 Temp: 0 øF	Time: 07:10 Temp: -6.øF	
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv		DELTA (dB)
56	21.9	22.3	22.6	22.6	0.7
57	21.9	22.3	22.4	22.6	0.7
58	21.9	22.1	22.5	22.3	0.6
59	21.6	. 21.8	21.8	22.2	0.6
60	21.5	21.9	22.1	22.2	0.7
61	21.3	21.6	21.8	22.0	0.7
62	21.5	21.6	21.9	22.1	0.6
<u>63</u> 64	21.3	21.6	21.8	21.8 20.5	0.5
65	$\frac{20.4}{21.2}$	20.8	21.0	20.5	0.5
66	21.2	21.3	21.7	21.0	0.3
67	20.5	21.2 20.7	21.0	21.0	0.4
$\frac{07}{71}$	20.5	20.7	20.9	20.8	0.4
$\frac{71}{72}$	20.0	20.3	20.9	20.8	0.4
72	20.0	20.0	20.3	20.5	0.5
74	20.4	20.7	20.5	20.8	0.4
75	20.4	20.5	20.8	20.9	0.5
76	20.5	20.7	20.8	21.0	0.5
78	20.1	20.2	20.7	20.7	0.6
· · · · · · · · · · · · · · · · · · ·		<u>.</u>			
·····				·	
and the second s					
]	·				· · · · · ·
an an an an an an an an an an an an an a	· · · · · · · · · · · · · · · · · · ·				
WORST	CASE MEASUREMENT	I DATA - WITHIN RAT	ED ACCURACY OF	MEASURING DEVICE	± .75 dB
	an an an an an an an an an an an an an a				··· · · · ·
Lowest Visual Carrier (	ta (dB): P [1.1] Ch	h. 72 · . P. [20.0 n. 10 P. [1.1	)  Ch. 73 · · · · P   Ch. 21 P	ECORD 3 [20.3] Ch: 73 [2.1] Ch. 12 [4.6] Ch. 38/73	RECORD 4 P [20.5] Ch. 64 P [1.7] Ch. 12 P [4.6] Ch. 29/64
Worst Adj. Carrier Del Max-Min Carrier Delta					•
Worst Adj. Carrier Delta Max-Min Carrier Delta	. ,				
Worst Adj. Carrier Del	. ,				
Worst Adj. Carrier Delta Max-Min Carrier Delta	. ,				
Worst Adj. Carrier Delt Max-Min Carrier Delta 24 Hour Delta: PASS PASS	. ,				
Worst Adj. Carrier Delt Max-Min Carrier Delta 24 Hour Delta: PASS	. ,				

Proof-It 3.0.8 - Ser.# P300A0545

Date: 01/20/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #3 Hammond ST Dannamora

CHANNEL	CURRENT (dBmv)	PREVIOUS (dBmv)	DELTA (dB)
2	21.7	21.8	0.1
3	21.3 20.9	22.9 22.2	1.6
+ 5	20.9	22.7	1.3
	21.7	22.6	0.9
95	21.5	23.2	1.7
96	22.4	23.2	0.8
98	21.9	23.1	1.2
99 14	21.7 22.4	23.0 23.4	1.3
14	22.4	23.1	$\frac{1.0}{0.8}$
16	21.8	22.5	0.7
17	22.5	23.5	1.0
18	22.4	23.7	1.3
20	22.4	23.7 24.3	<u> </u>
<u>21</u> 22	23.8	24.3	0.6
	23.4	24.5	1.1
8	23.5	24.7	1.2
9	23.0	25.0	2.0
10	22.3	25.1	2.8
<u> </u>	23.4 24.4	24.9 25.6	1.5
12	24.4	25.0	0.9
$\frac{13}{23}$	24.2	24.8	0.6
24	24.6	24.7	0.1
25	24.5	24.8	0.3
<u> </u>	24.4 24.3	<u>25.1</u> 25.3	0.7
27	24.3	25.0	0.7
29	24.7	* 25.3	0.6
30	24.5	25.2	0.7
31	24.4	24.8	0.4
<u>32</u> 33	24.3 24.2	25.0	0.7 0.6
33		24.6	0.8
35	24.1	24.9	0.8
36	24.3	24.9	0.6
37	24.0	24.5	0.5
38 39	24.6 23.9	25.1	0.5
40	23.9	24.6	0.7 0.5
42	23.6	24.4	0.8
43	23.9	24.3 ,	0.4
44	23.4	23.8	0.4
45 46	23.1 22.7	23.0 22.7	0.1
· · · · · · · · · · · · · · · · · · ·		TED ACCURACY OF MEASU	0.0 RING DEVICE ± .75 dB
Lowest Visual C		.72 P [20.1]	<u>US RECORD</u> Ch. 73 .
Worst Adj. Carr Max-Min Carrie 6 Month Delta:			Ch. 2 Ch. 12/73
ASS			
e			

Proof-It 3.0.8 - Ser.# P300A0545

Date: 01/20/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #3 Hammond ST Dannamora

CHANNEL	CURRENT (dBmv)	PREVIOUS (dBmv)	DELTA (dB)
47 49	22.5	23.0 22.5	0.5
50	22.6	22.4	0.2
51	22.1	22.3	0.2
52	21.9	22.1	0.2
54	22.5	22.1	0.4
55 56	22.0 21.9	<u>22.1</u> 21.9	0.1
57	21.9	21.9	0.0
58	21.9	21.7	0.2
59	21.6	21.5	0.1
60	21.5	21.5	0.0
<u>61</u> 62	21.3	21.6	0.3
63	21.5	21.0	0.1
64	20.4	21.0	1.0
65	21.2	21.3	0.1
66	21.1	21.5	0.4
67	20.5	21.3	0.8
<u>68</u> 7()	20.7	20.9 21.2	0.2
70	20.8	20.9	0.4
72	20.0	20.8	0.8
73	20.3	20.1	0.2
74	20.4	20.2	0.2
75 76	20.4	20.4	0.0
78	20.5	20.9	0.4 /
Lowest Visual C Worst Adj. Carr Max-Min Carrie	CURRENT I           CURRENT I           arrier (dBmv):         P [20.0] Ch.           ier Delta (dB):         P [1.1] Ch. I           r Delta (dB):         P [4.7] Ch. 2           PASS [2.8 dB] Ch. 10	RECORD         PREVIOU           72         P [20.1]           10         P [1.1] C	U <u>S RECORD</u> Ch73
ASS			
Proof-It 3.0.8 - Ser.# P300A0545

Date: 01-20-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #3 Hammond street

۰.

С	HANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)
, · ···	2	<u>21.7</u> 21.3	6.5	. 15.2 14.5
	3 4	20.9	9.8	14.5
		21.3	6.8	14.5
	5	21.7	7.5	14.2
	98	21.9	7.9 7.6	14.0
	99	21.7		14.1
	14	22.4	8.2	14.2
	15	22.3	8.4	13.9
)	16	21.8	7.7	14.1
	17	22.5 22.4	7.9 8.6	14.6
	20	22.4	8.8	13.6
	20	23.3	9.2	13.0
	22	23.8	9.6	14.2
		23.4	9.1	14.3
	8	23.5	6.3	17.2
	9	23.0	8.0	15.0
	10	22.3	9.1	13.2
	11	23.4	9.5	13.9
	12	24.4	10.7	13.7
ļ	13	24.1	10.0	14.1
	<u>23</u> 24	24.2 24.6	10.4	<u>14.3</u> 14.2
	24 25	24.5	10.4	13.9
	26	24.4	10.3	13.9
	27	24.3	10.9	13.4
	28	24.3	10.4	13.9
-	29	24.7	10.6	14.1
	30	24.5	10.4	[4.]
	31	24.4	10.5	13.9
	32	24.3	10.1	14.2
	33	24.2	9.9	14.3
	<u>34</u> 35	24.3	10.3	<u> </u>
	36	24.3	9.7	13.6
	37	24.0	9.9	14.1
	38	24.6	10.4	14.2
	44	23.4	9.0	14.4
	46	22.7 22.5	8.9	13.8
	47	22.5	8.2	14.3
	49	22.0	7.6	14.4
	50	22.6	6.9	15.7
	51 52	<u>22.1</u> 21.9	7.9 8.2	14.2 13.7
· - ····	54	21.9	8.4	13.7
	55	22.0	7.9	14.1
WORST		REMENT DATA - WITHIN RATED /		· · · · · · · · · · · · · · · · · · ·
•••.	. <u>.</u>	Lowest Visual Carrier (dBmv): Worst Upper V/A Ratio (dB): Worst Lower V/A Ratio (dB): Worst Adj. Carrier Delta (dB): Max-Min Carrier Delta (dB):	P [20.0] Ch. 72 P [17.2] Ch. 8. P [11.1] Ch. 4 P [1.1] Ch. 10 P [4.7] Ch. 29/72	
PASS				
cable				

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01-20-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #3 Hammond street

CHANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)
56	21.9	7.6	14.3
57 58	21.9 21.9	8.1	13.8
58	21.9	7.4	13.9
60	21.5	7.3	14.2
61	21.3	6.9	14.4
62	21.5	7.1	14.4
63	21.3	6.4	14.9
64	20.4	6.6	13.8
65	21.2	7.3	13.9
66	21.1	6.9	14.2
67 71	20.5	6.5 6.2	14.0
71	20.6	5.9	14.1
73	20.3	5.8	14.5
74	20.4	6.4	14.0
75	20.4	6.1	14.3
76	20.5	6.2	14.3
78	20.1	6.6	13.5
WORST CASE MEASUI	REMENT DATA - WITHIN RA Lowest Visual Carrier (dE Worst Upper V/A Ratio (d Worst Lower V/A Ratio (d Worst Adj. Carrier Delta ( Max-Min Carrier Delta (d	B(mv): P [20.0] Ch: 72 JB): P [17.2] Ch. 8 dB): P [11.1] Ch. 4 (dB): P [1.1] Ch. 10	/RING DEVICE ± .75 dB
ASS			· · · · · · · · · · · · · · · · · · ·

## FCC Compliance 76.605(a) - (3), (7), (8), (9)(i), (9)(ii), (11) Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 1/20/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #3 Hammond St Dannamora

**Technician:** Bob Greer

CH.	C/N -dBc	CSO -dBc	CTB -dBc	In-Ch (p-v)	Aural Diff kHz	Hum %
4	49.8	62.3	69.0	1.40	+0.000	.5
14	47.9	64.1	63.6	2.10	+0.000	.6
8	46.5	68.7	62.0	1.60	+0.000	1.5
9	48.5	73.1	61.6	1.60	+0.000	.6
36	-48.6	70.0	61.0	1.10	+0.000	.5
39	48.7	66.4	54.8	2.10	+0.000	.6
44	48.4	66.3	54.9	1.70	+0.000	.6
49	46.9	68.0	52.7	2.10	-0.100	.6
54	46.5	64.4	52.7	1.60	+0.000	.5
66	49.1	61.8	59.8	2.30	+0.000	.6
67	48.2	66.5	53.4	1.60	+0.000	.6
116	48.6	56.5	59.8	1.80	+0.000	.5

An asterisk indicates a failed measurement.

MEASUREMENT	MEASUREMENT DEVICE	CAL DATE	SERIAL NO.
CSO/CTB	AGILENT 8591C	07/16/03	4109A04509
Carrier to Noise	TRILITHIC BANDPASS	07/16/03	200102124
Hum Modulation	AGILENT 8591C	07/16/03	4109A04509
Aural Carrier Frequency	AGILENT 8591C	07/16/03	4109A04509
In-Channel Frequency Response	AGILENT 8591C	07/16/03	4109A04509

· · · · · · · · · · · · · · · · · · ·		Worst Case	Measurement Data		
Carrier to Noise:	(-46.5 dBc)	Pass	Hum Modulation:	(1.5 %)	Pass
Composite Triple Beat:	(-52.7 dBc)	Pass	Aural Frequency Difference:	(0.1 kHz)	Pass
Composite Second Order:	(-56.5 dBc)	Pass	In-Ch Frequency Response:	(2.3 dB p-v)	Pass

. . . . . .

Falcon	Cable
uncon	Cupie

.

l

PASS

Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 01-22-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #4 Orebed road

	Time: 09:26	Time: 15:26	Time: 21:26	Time: 03:26	
	Temp: 44.øF	Temp: 30.øF	Temp: 28.øF	Temp: 23.øF	
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)	RECORD 4 (dBmv)	DELTA (dB)
2	15.9	15.8	15.8	15.9	0.1
3	15.6	15.5	15.7	15.6	0.2
4	15.2	14.6	15.2	15.0	0.6
5	16.0	15.6	15.8	14.8	1.2
6	16.3	16.1	16.4	16.3	0.3
98	16.5	16.6	16.8	16.5	0.3
99	16.4	16.0	16.5	16.4	0.5
[4	16.8	16.9	16.8	16.9	0.1
15	16.8	16.9	17.1	17.2	0.4
16	16.1	16.1	16.5	16.2	0.4
17	17.1	17.5	l 7.7	17.4	0.6
18	i 17.0	17.5	17.5	17.5	0.5
20	17.8	18.0	18.1	18.0	0.3
21	18.1	18.1	18.2	18.4	0.3
22	18.0	18.1	18.4	18.4	0.4
7	18.1	17.9	18.1	18.2	0.3
8	18.5	18.6	18.7	18.6	0.2
9	18.1	18.4	18.3	18.6	0.5
10	18.3	18.6	18.5	18.9	0.6
11	18.5	18.9	19.0	18.8	0.5
12	18.9	19.2	19.3	19.4	0.5
13	18.8	18.7	19.0	19.1	0.4
23	18.6	18.4	18.9	18.9	0.5
24 25	18.9	18.8	19.1	19.2	0.4
25	18.5	18.7 18.5	19.1 18.9	18.8 18.9	0.6
20	18.5	18.5	18.9		0.4
28	18.0	17.8	18.6	18.7	0.9
28	18.6	18.3	18.9	19.1	0.8
30	18.0	18.5	18.7	19.0	0.8
31	18.5	18.8	19.0	19.0	0.5
32	18.6	18.7	18.9	19.3	0.7
33	18.2	18.2	18.4	18.8	0.6
34	18.4	18.5	18.9	19.2	0.8
35	18.4	18.3	18.8	18.9	0.6
36	18.4	18.3	18.6	18.9	0.6
37	18.5	18.3	18.4	18.9	0.6
38	18.6	18.7	18.9	19.3	+
44	18.0	18.0	18.1	18.7	0.7
46	17.6	17.5	17.8	18.0	0.5
47	17.5	17.2	17.8	18.1	0.9
49	17.1	17.3	17.7	17.6	0.6
50	17.7	18.2	18.6	18.9	1.2
51	17.3	17.6	18.3	18.4	1.1
52	17.9	17.6	18.7	18.5	1.1
54	19.0	19.5	18.4	19.7	1.3
55	18.1	18.7	17.6	19.8	2.2
WORS	CASE MEASUREMENT		ED ACCURACY OF ME	······································	.75 dB
owest Visual Carrier orst Adj. Carrier De ax-Min Carrier Del	(dBmv): P [15.2] Cl elta (dB): P [1.4] Ch.	n. 4 P   14.6 55 P   1.4]	Ch. 4 P   Ch. 55 P	15.2  Ch. 4 1.2] Ch. 16	<u>RECORD 4</u> P  14.8] Ch. 5 P  1.5] Ch. 5
Ax-Min Carrier Del Hour Delta: PAS		. 5474 P [4.9]	Ch. 54/4 P [4	4.1  Ch. 12/4	P [5.0] Ch. 55/5
PASS					
lcon Cable					

Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 01-22-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #4 Orebed road

•

	Time: 09:26	Time: 15:26	Time: 21:26	Time: 03:26	
	Temp: 44.øF	Temp: 30.øF	Temp: 28.øF	Temp: 23.øF	
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)	RECORD 4 (dBmv)	DELTA (dB)
56	16.7	17.3	17.5	19.5	2.8
57	16.2	16.8	17.5	19.2	3.0
58	16.9	17.3	17.9	18.9	2.0
59	17.9	17.6	18.4	18.3	0.8
60 61	18.6	18.5	18.7	18.9	0.4
62	18.2	18.0	18.1 18.3	18.9	0.9
63	17.6	17.9	18.5	18.6	0.8
64	17.0	17.0	17.2	17.6	0.9
65	18.3	17.0	17.2	17.6	
66	18.4	18.1	18.3	18.9	0.9
67	18.0	17.7	17.9	18.4	0.0
71	18.0	17.5	17.7	17.9	0.7
72	17.9	17.2	17.7	17.9	0.5
73	17.3	16.6	17.1	17.1	0.7
74	17.8	16.8	17.3	17.6	1.0
75	18.0	17.2	17.2	17.0	0.8
76	17.6	16.9	17.2	17.5	0.8
78	18.1	17.1	17.2	17.5	1.0
		ļ			
			-		
		i 			
·					
				1	
					1
			; f=		
· · · · · · · · · · · · · · · · · · ·			 	· · · · · · · · · · · · · · · · · · ·	
				-	· · · · · · · · · · · · · · · · · · ·
		·····			
		······································	[		
				• •	
			·		
		er en anne en anne en anne en anne en anne en anne en anne en anne en anne en anne en anne en anne en anne en a		en en en en en en en en en en en en en e	a
·····					
		er e en e		A second a second second second second second second second second second second second second second second s	
	· · · · · · · · · · · · · · · · · · ·				
13/OD 07	CASE MEASIDEMENTE				
1101631	CASE MEASUREMENT	DATA - WITHIN KATI	SD ACCURACY OF ME	ASURING DEVICE ±	.75 dB
	DECODD'				
wout Viewel Constan	RECORD I				<u>RECORD 4</u>
west Visual Carrier					P [14.8] Ch. 5 👃
nst Adj. Carrier De tx-Min Carrier Delt					P [1.5] Ch. 5
		04/4 P [4.9]	Ch. 54/4 P [4	.1] Ch. 12/4	P [5.0] Ch. 55/5
Hour Delta: PASS	5 [3.0 dB] Ch. 57				
[]					
Digg					
PASS					
PASS con Cable					
			, , ···		· .

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01-22-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#4 Orebed Road

Technician: Bob Greer Equipment: 3010R Calibration Date: 07/2008

15.9 15.6 15.2 16.0 16.3 16.5	0.8 1.4 5.3 1.5 2.1	<u> </u>
15.2 16.0 16.3 16.5	5.3 1.5	
16.0 16.3 16.5	1.5	
16.3 16.5		14.5
		14.2
	2.3	14.2
16.4	2.1	14.3
16.8	2.8	14.0
16.8	2.8	14.0
16.1		14.1
		15.0
		13.7
		14.2
		14.4
		14.6
18.5		14.0
18.1	4.0	14.1
18.3	4.2	14.1
18.5	3.8	14.7
		13.9
	and the second se	14.3
		14.5
18.9		14.2
		13.9
		14.1
		13.4
		14.0
	4.1	14.1
18.5	4.5	14.0
18.6	4.1	14.5
		14.2
		14.1
		13.9
		14.8
		14.5 14.0
		14.0
		14.4
		14.5
17.1	2.8	14.3
17.7	2.0	15.7
17.3	3.7	13.6
		[4.0]
		14.7
18.1	3.1	15.0
	$\begin{array}{c} 16.1 \\ 17.1 \\ 17.0 \\ 17.8 \\ 18.1 \\ 18.0 \\ 18.1 \\ 18.5 \\ 18.1 \\ 18.5 \\ 18.1 \\ 18.5 \\ 18.1 \\ 18.5 \\ 18.1 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.5 \\ 18.6 \\ 18.2 \\ 18.5 \\ 18.6 \\ 18.2 \\ 18.5 \\ 18.6 \\ 18.2 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.4 \\ 18.5 \\ 18.6 \\ 18.0 \\ 17.6 \\ 17.5 \\ 17.1 \\ 17.7 \\ 17$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

. ...

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01/22/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP # 4 Orebed rd Redford

Technician: Bob Greer
Equipment: 3010R
Calibration Date: 07/2008

2         15.9         14.4         1.5           4         15.2         15.3         0.1           5         16.0         15.4         0.6           9         16.3         15.6         0.7           96         16.2         16.3         0.6           96         16.5         16.1         0.0           96         16.4         16.0         0.4           14         16.8         15.8         1.0           15         16.8         15.6         0.1           16         16.1         15.9         0.2           17         17.1         16.2         0.9           18         17.0         16.0         1.0           20         17.8         16.2         1.6           10         18.3         16.6         1.5           11         18.5         16.8         1.5           12         18.9         1.7         1.4           13         18.4         15.1         3.0           14         18.5         16.8         1.5           14         18.5         16.3         1.2           10         18.3         16.6	CHANNEL	CURRENT (dBmv)	PREVIOUS (dBmv)	DELTA (dB)
4         15.2         15.3         0.1           5         16.0         15.4         0.6           95         16.2         16.0         0.2           96         16.5         16.1         0.4           98         16.5         16.1         0.4           99         16.4         16.0         0.4           14         16.8         15.6         1.2           16         16.1         15.9         0.2           17         17.1         16.2         0.9           18         17.0         16.0         1.6           20         17.8         16.2         1.6           21         18.1         15.1         3.0           22         18.0         15.4         2.1           13         18.1         15.1         3.0           9         18.1         16.4         1.5           10         18.3         16.8         1.7           12         18.9         16.6         1.5           11         18.5         16.3         2.2           23         18.6         16.3         2.1           24         18.9         16.4 <td></td> <td>15.9</td> <td></td> <td></td>		15.9		
5         16.0         15.4         0.6           95         16.2         16.0         0.2           96         16.9         16.3         0.6           98         16.5         16.1         0.4           99         16.4         16.0         0.4           14         16.8         15.8         1.0           15         16.8         15.6         1.2           16         16.1         15.9         0.2           17         17.1         16.2         0.9           18         17.0         16.0         1.0           20         17.8         16.1         2.0           21         18.1         16.1         2.0           22         18.0         15.6         2.4           7         18.1         16.1         3.0           12         18.3         16.8         1.5           14         18.3         16.8         1.5           12         18.9         17.5         1.4           13         18.4         16.6         2.2           23         18.6         16.6         2.0           24         18.9         17.1 <td></td> <td>15.2</td> <td></td> <td></td>		15.2		
95         162         160         0.2           96         163         0.6         0.4           99         16.4         16.0         0.4           14         16.8         15.8         1.0           15         16.8         15.8         1.0           16         16.1         15.9         0.2           17         17.1         16.2         0.9           18         17.0         16.0         1.0           20         17.3         16.2         1.6           21         18.1         15.1         3.0           22         18.0         15.6         2.4           7         18.1         16.9         1.4           10         18.3         16.8         1.5           11         18.5         16.8         1.7           12         18.0         17.5         1.4           13         18.8         17.2         1.6           23         18.4         16.3         2.7           24         18.9         16.5         1.7           24         18.5         16.2         2.3           26         18.5         16.2				and a second second second second second second second second second second second second second second second
95         162         160         0.2           96         163         0.4         0.4           99         16.4         16.0         0.4           14         16.8         15.8         1.0           15         16.8         15.8         1.0           16         16.1         15.9         0.2           17         17.1         16.2         0.9           18         17.0         16.0         1.0           20         17.3         16.2         1.6           21         18.1         15.1         3.0           22         18.0         15.6         2.4           7         18.1         15.1         3.0           9         18.3         16.8         1.5           10         18.3         16.8         1.5           11         18.5         16.8         1.5           12         18.0         17.5         1.4           13         18.3         16.2         2.3           26         18.5         16.2         2.3           27         18.2         17.1         0.9           29         18.6         16.5	6	16.3		CONTRACTOR AND A DECIDENT
96         16.9         16.3         0.6           99         16.4         16.0         0.4           14         16.8         15.8         1.0           15         16.8         15.6         1.2           16         16.1         15.9         0.2           17         17.1         16.2         0.9           18         17.0         16.0         1.0           20         17.3         16.2         1.6           7         18.1         16.1         2.0           21         18.1         15.6         2.4           7         18.1         16.1         2.0           22         18.0         15.6         2.4           7         18.1         16.6         1.5           10         18.3         16.8         1.7           12         18.9         17.5         1.4           13         18.8         17.2         1.6           23         18.6         16.6         2.1           24         18.9         16.8         1.2           25         18.5         16.4         2.1           24         18.2         17.0 <td>95</td> <td>16.2</td> <td>16.0</td> <td>0.2</td>	95	16.2	16.0	0.2
99         16.4         16.0         0.4           14         16.8         15.8         1.0           15         16.8         15.6         1.2           16         16.1         15.9         0.2           17         17.1         16.2         0.9           18         17.0         16.0         1.0           20         17.8         16.2         1.6           21         18.1         15.1         3.0           7         18.1         15.1         3.0           7         18.1         15.6         2.4           7         18.1         16.6         15           10         18.3         16.6         15           11         19.5         16.8         1.7           12         18.9         17.5         1.4           13         18.3         16.6         1.7           24         18.9         16.8         2.1           25         18.5         16.3         2.2           26         18.5         16.6         1.6           31         18.5         16.6         1.6           32         18.6         16.6		16.9	16.3	0.6
14         16.8         15.8         1.0           15         16.8         15.6         1.2           16         16.1         15.9         0.2           17         17.1         16.2         0.9           18         17.0         16.0         1.0           20         17.8         16.2         1.6           21         18.1         16.1         2.0           22         18.0         15.6         2.4           7         18.1         15.1         3.0           8         18.5         16.9         1.6           9         18.1         15.1         3.0           8         18.5         16.8         1.5           10         18.3         16.8         1.5           12         18.9         17.5         1.4           13         18.8         17.2         1.6           23         18.6         16.8         2.1           24         18.9         16.8         2.1           25         18.5         16.2         2.3           26         18.5         16.6         1.7           30         18.2         16.6	98	16.5	16.1	0.4
15         16.8         15.6         1.2           16         16.1         15.9         0.2           17         17.1         16.2         0.9           18         17.0         16.0         1.0           20         17.8         16.2         1.6           21         18.1         16.1         2.0           7         18.1         15.6         2.4           7         18.1         15.6         2.4           7         18.1         16.6         1.3           9         18.1         16.6         1.5           10         18.3         16.8         1.7           12         18.9         17.5         1.4           13         18.8         17.2         1.6           23         18.6         16.9         1.7           24         18.9         16.8         2.1           25         18.5         16.2         2.2           26         18.5         16.6         2.0           30         18.2         16.6         1.6           31         18.2         16.5         1.7           32         18.6         16.5				0.4
16         16.1         15.9         0.2           17         17.1         16.2         0.9           18         17.0         16.0         1.0           20         17.8         16.2         1.6           21         18.1         16.1         2.0           22         18.0         15.6         2.4           7         18.1         15.1         3.0           8         18.5         16.9         1.6           9         18.1         16.6         1.5           10         18.3         16.8         1.5           11         18.5         16.8         1.7           12         18.9         17.5         1.4           13         18.8         17.2         1.6           23         18.5         16.2         2.3           26         18.5         16.2         2.3           27         18.2         17.0         1.2           28         18.0         17.1         0.9           29         18.6         16.6         1.6           31         18.5         16.4         2.1           32         18.6         16.5 <td></td> <td>16.8</td> <td></td> <td></td>		16.8		
17       17.1       16.2       0.9         18       17.0       16.0       1.0         20       17.8       16.2       1.6         21       18.1       16.1       2.0         22       18.0       15.6       2.4         7       18.1       15.1       3.0         9       18.1       15.6       2.4         7       18.1       15.6       3.0         9       18.1       16.6       1.5         10       18.3       16.8       1.7         12       18.9       17.5       1.4         13       18.6       16.9       1.7         14       18.5       16.8       2.1         23       18.6       16.9       1.7         24       18.9       16.8       2.1         25       18.5       16.5       2.2         26       18.5       16.6       2.0         30       18.2       16.6       1.6         31       18.5       16.6       1.6         32       18.6       16.5       1.7         33       18.2       16.5       1.7         34<		16.8		
18         17.0         16.0         1.0           20         17.8         16.2         1.6           21         18.1         16.1         2.0           7         18.1         15.6         2.4           7         18.1         15.1         3.0           8         18.5         16.9         1.6           9         18.1         15.1         3.0           10         18.3         16.6         1.5           11         18.5         16.8         1.5           12         18.9         17.5         1.4           13         18.8         17.2         1.6           23         18.5         16.3         2.1           26         18.5         16.2         2.3           27         18.2         17.0         1.2           28         18.0         17.1         0.9           29         18.6         16.6         2.0           30         18.2         16.5         1.7           34         18.5         16.4         2.1           33         18.2         16.5         1.7           34         18.4         16.3				
20       17.8       16.2       16         21       18.1       16.1       2.0         22       18.0       15.6       2.4         7       18.1       15.1       3.0         8       18.5       16.9       1.6         9       18.1       16.8       1.5         10       18.3       16.8       1.7         12       18.9       17.5       1.4         23       18.6       16.9       1.7         24       18.9       16.3       2.2         25       18.5       16.3       2.2         26       18.5       16.3       2.2         26       18.5       16.3       2.2         27       18.2       17.0       1.2         28       18.0       17.1       0.9         29       18.6       16.6       1.6         30       18.2       16.5       1.1         32       18.6       16.5       2.1         33       18.2       16.5       1.7         34       18.2       16.5       2.1         35       18.4       16.3       2.1         36				
21         18.1         16.1         20           22         18.0         15.6         2.4           7         18.1         15.1         3.0           8         18.5         16.9         1.6           9         18.1         16.6         1.5           10         18.3         16.8         1.5           11         18.5         16.8         1.7           12         18.9         17.5         1.4           13         18.8         17.2         1.6           23         18.6         16.9         1.7           24         18.9         16.8         2.1           25         18.5         16.3         2.2           26         18.5         16.6         2.0           30         18.2         17.0         1.2           28         18.0         17.1         0.9           31         18.5         16.4         2.1           32         18.6         16.5         1.7           34         18.5         15.7         2.8           35         18.4         16.3         2.1           35         18.4         16.5 <td></td> <td>17.0</td> <td></td> <td></td>		17.0		
22         18.0         15.6         2.4           7         18.1         15.1         3.0           8         18.5         16.9         1.6           9         18.1         16.6         1.5           10         18.3         16.8         1.5           11         18.5         16.8         1.7           12         18.9         17.5         1.4           13         18.8         17.2         1.6           23         18.6         16.9         1.7           24         18.9         16.8         2.1           25         18.5         16.3         2.2           26         18.5         16.6         2.0           30         18.2         17.0         1.2           28         18.6         16.6         2.0           30         18.2         16.5         1.7           32         18.6         16.5         2.1           33         18.2         16.5         1.7           34         18.4         16.3         2.1           35         18.4         16.3         2.1           36         18.4         16.5 <td></td> <td></td> <td></td> <td></td>				
7         18.1         15.1         3.0           8         18.5         16.9         1.6           9         18.1         16.6         1.5           10         18.3         16.8         1.5           11         18.5         16.8         1.7           12         18.9         17.5         1.4           13         18.6         16.9         1.7           24         18.9         16.8         2.1           25         18.5         16.2         2.3           26         18.5         16.2         2.3           26         18.5         16.6         2.0           26         18.5         16.4         2.1           28         18.0         17.1         0.9           29         18.6         16.6         1.6           30         18.2         16.4         2.1           32         18.6         16.5         1.9           33         18.2         16.5         1.9           34         18.4         16.5         1.9           35         18.4         16.0         2.4           40         18.4         16.0 <td></td> <td>18.1</td> <td></td> <td></td>		18.1		
8         18.5         16.9         1.6           10         18.3         16.8         1.5           11         18.5         16.8         1.5           12         18.9         17.5         1.4           13         18.8         17.2         1.6           23         18.6         16.9         1.7           24         18.9         16.8         2.1           25         18.5         16.3         2.2           26         18.5         16.2         2.3           27         18.2         17.0         1.2           28         18.0         17.1         0.9           29         18.6         16.6         1.6           30         18.2         16.5         1.7           34         18.2         16.5         1.7           34         18.2         16.5         1.7           34         18.4         16.3         2.1           35         18.4         16.3         2.1           36         18.4         16.3         2.1           37         18.5         15.7         2.8           38         18.6         16.0 </td <td>7</td> <td></td> <td></td> <td></td>	7			
9         18.1         16.6         1.5           10         18.3         16.8         1.5           11         18.5         16.8         1.7           12         18.9         17.5         1.4           13         18.8         17.2         1.6           23         18.6         16.9         1.7           24         18.9         16.8         2.1           25         18.5         16.3         2.2           26         18.5         16.2         2.3           27         18.2         17.0         1.2           28         18.0         17.1         0.9           29         18.6         16.6         2.0           30         18.2         16.4         2.1           32         18.6         16.5         1.7           33         18.2         16.5         1.7           34         18.5         16.5         2.1           35         18.4         16.3         2.1           36         18.4         16.5         1.9           35         18.5         15.7         2.8           38         18.5         15.9 </td <td>8</td> <td>10.1</td> <td></td> <td></td>	8	10.1		
10         18.3         16.8         1.5           11         18.5         16.8         1.7           12         18.9         17.5         1.4           13         18.8         17.2         1.6           23         18.6         16.9         1.7           24         18.9         16.8         2.1           25         18.5         16.3         2.2           26         18.5         16.2         2.3           27         18.2         17.0         1.2           28         18.0         17.1         0.9           29         18.6         16.6         2.0           30         18.2         16.6         1.6           31         18.5         16.4         2.1           32         18.6         16.5         2.1           33         18.2         16.5         1.7           34         18.4         16.3         2.1           36         18.4         16.3         2.1           36         18.4         16.0         2.6           39         18.4         16.0         2.6           39         18.4         16.0				
11         18.5         16.8         1.7           12         18.9         17.5         1.4           13         18.8         17.2         1.6           23         18.6         16.9         1.7           24         18.9         16.8         2.1           25         18.5         16.3         2.2           26         18.5         16.2         2.3           27         18.2         17.0         1.2           28         18.0         17.1         0.9           29         18.6         16.6         2.0           30         18.2         16.4         2.1           32         18.6         16.5         1.7           33         18.2         16.5         1.7           34         18.4         16.5         1.9           35         18.4         16.3         2.1           36         18.4         16.7         1.7           40         18.4         16.7         1.7           42         18.1         15.9         2.2           43         18.2         15.9         2.3           44         18.0         15.6				
12         18.9         17.5         1.4           13         18.9         17.2         1.6           23         18.6         16.9         1.7           24         18.9         16.8         2.1           25         18.5         16.2         2.3           26         18.5         16.2         2.3           27         18.2         17.0         1.2           28         18.0         17.1         0.9           29         18.6         16.6         2.0           30         18.2         16.6         1.6           31         18.5         16.5         1.7           33         18.2         16.5         1.7           34         18.4         16.3         2.1           35         18.4         16.3         2.1           36         18.4         16.3         2.1           37         18.5         15.7         2.8           38         18.6         16.0         2.6           39         18.4         16.7         1.7           42         18.1         15.9         2.2           43         18.2         15.9		18.5		
13       18.8       172       1.6         23       18.6       16.9       1.7         24       18.9       16.8       2.1         25       18.5       16.3       2.2         26       18.5       16.2       2.3         27       18.2       17.0       1.2         28       18.0       17.1       0.9         29       18.6       16.6       1.6         30       18.2       16.6       1.6         31       18.5       16.4       2.1         32       18.6       16.5       1.9         33       18.2       16.5       1.7         34       18.4       16.3       2.1         36       18.4       16.3       2.1         37       18.5       15.7       2.8         38       18.6       16.0       2.6         39       18.4       16.5       2.0         44       18.0       15.9       2.2         43       18.2       15.9       2.3         44       18.0       15.6       2.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB<				
23       18.6       16.9       1.7         24       18.9       16.8       2.1         25       18.5       16.3       2.2         26       18.5       16.2       2.3         27       18.2       17.0       1.2         28       18.0       17.1       0.9         29       18.6       16.6       2.0         30       18.2       16.6       1.6         31       18.5       16.4       2.1         32       18.6       16.5       1.1         32       18.6       16.5       1.1         33       18.2       16.5       1.7         34       18.5       16.3       2.1         35       18.4       16.3       2.1         36       18.4       16.3       2.1         37       18.5       15.7       2.8         38       18.6       16.0       2.6         39       18.4       16.5       2.1         42       18.4       15.9       2.2         43       18.2       15.9       2.3         44       18.0       15.6       2.0 <t< td=""><td></td><td>18.8</td><td>17.2</td><td></td></t<>		18.8	17.2	
24         18.9         16.8         2.1           25         18.5         16.2         2.3           27         18.2         17.0         1.2           28         18.0         17.1         0.9           29         18.6         16.6         2.0           30         18.2         16.6         1.6           31         18.5         16.4         2.1           32         18.6         16.5         2.1           33         18.2         16.5         1.7           34         18.4         16.5         2.1           36         18.4         16.3         2.1           36         18.4         16.3         2.1           36         18.4         16.0         2.6           39         18.4         16.0         2.4           40         18.4         16.0         2.4           40         18.4         16.0         2.4           44         18.0         15.6         2.3           43         18.2         15.9         2.3           44         17.0         15.6         2.0           WORST CASE MEASUREMENT DATA - WITH		18.6		
25       18.5       16.3       2.2         26       18.5       16.2       2.3         27       18.2       17.0       1.2         28       18.0       17.1       0.9         29       18.6       16.6       2.0         30       18.2       16.6       1.6         31       18.5       16.4       2.1         32       18.6       16.5       1.7         33       18.2       16.5       1.7         34       18.4       16.5       1.9         35       18.4       16.3       2.1         36       18.4       16.3       2.1         37       18.5       15.7       2.8         38       18.6       16.0       2.6         39       18.4       16.0       2.4         40       18.4       16.7       1.7         42       18.1       15.9       2.2         43       18.2       15.9       2.3         44       18.0       15.6       2.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURA	24	18.9		2.1
27       18.2       17.0       1.2         28       18.0       17.1       0.9         29       18.6       16.6       2.0         30       18.2       16.6       1.6         31       18.5       16.4       2.1         33       18.2       16.5       1.7         34       18.2       16.5       1.7         34       18.4       16.5       1.9         36       18.4       16.3       2.1         36       18.4       16.3       2.1         37       18.5       15.7       2.8         38       18.4       16.0       2.4         40       18.4       16.7       1.7         42       18.1       15.9       2.2         43       18.2       15.9       2.3         44       18.0       15.6       2.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         CURRENT RECORD       PREVIOUS RECORD         Vowest Visual Carrier (dBmv):       P [15.2] Ch. 4       P [12.1] Ch. 71         Worst Adj: Carrier Delta (dB):       P [15.4] Ch. 55       P [2.4] Ch. 51         Max-Mi		18.5	16.3	
28       18.0       17.1       0.9         29       18.6       16.6       2.0         30       18.2       16.6       1.6         31       18.5       16.4       2.1         32       18.6       16.5       2.1         33       18.2       16.5       1.7         34       18.4       16.5       1.9         35       18.4       16.3       2.1         36       18.4       16.3       2.1         37       18.5       15.7       2.8         38       18.6       16.0       2.6         39       18.4       16.0       2.4         40       18.4       16.0       2.4         40       18.4       16.7       1.7         42       18.1       15.9       2.3         43       18.2       15.9       2.3         44       18.0       15.6       2.3         45       17.9       15.6       2.0         CURRENT RECORD         Vorst Adj-Carrier Delta (dB):       P [15.2] Ch. 4       P [12.1] Ch. 71         Worst Adj-Carrier Delta (dB):       P [3.8] Ch. 54/4       P [5.4] Ch. 12/71		18.5		
29         18.6         16.6         2.0           30         18.2         16.6         1.6           31         18.5         16.4         2.1           32         18.6         16.5         2.1           33         18.2         16.5         1.7           34         18.4         16.5         1.9           35         18.4         16.3         2.1           36         18.4         16.3         2.1           37         18.5         15.7         2.8           38         18.4         16.0         2.6           39         18.4         16.7         1.7           40         18.4         16.7         1.7           42         18.1         15.9         2.2           43         18.2         15.9         2.3           44         18.0         15.6         2.0           WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ Lowest Visual Carrier (dBmv):         P [15.2] Ch. 4         P [12.1] Ch. 71           Worst Adj: Carrier Delta (dB):         P [15.2] Ch. 4         P [2.4] Ch. 51           Max-Min Carrier Delta (dB):         P [3.8] Ch. 54/4		18.2		
30       18.2       16.6       1.6         31       18.5       16.4       2.1         32       18.6       16.5       2.1         33       18.2       16.5       1.7         34       18.4       16.5       1.9         35       18.4       16.3       2.1         36       18.4       16.3       2.1         36       18.4       16.3       2.1         36       18.4       16.3       2.1         37       18.5       15.7       2.8         38       18.6       16.0       2.6         39       18.4       16.0       2.4         40       18.4       15.9       2.2         43       18.2       15.9       2.3         44       18.0       15.6       2.0         44       18.0       15.6       2.0         CURRENT RECORD         P       15.6       2.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         Lowest Visual Carrier (dBmv):       P       15.6       2.0         Vorst Adj: Carrier (dBmv):       P       15.2       CL				
31       18.5       16.4       2.1         32       18.6       16.5       2.1         33       18.2       16.5       1.7         34       18.4       16.5       1.9         35       18.4       16.3       2.1         36       18.4       16.3       2.1         36       18.4       16.3       2.1         37       18.5       15.7       2.8         38       18.6       16.0       2.6         39       18.4       16.0       2.4         40       18.4       16.7       1.7         42       18.4       16.7       1.7         43       18.2       15.9       2.2         43       18.2       15.9       2.3         44       18.0       15.6       2.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75  dB$ CURRENT RECORD         P [15.2] Ch. 4       P [12.1] Ch. 71         Worst Adj: Carrier Oelta (dB):       P [15.2] Ch. 4       P [12.4] Ch. 51         Max-Min Carrier Delta (dB):       P [3.8] Ch. 54/4       P [5.4] Ch. 12/71         6 Month Delta:       PASS [5.9 dB] Ch. 7				
32       18.6       16.5       2.1         33       18.2       16.5       1.7         34       18.4       16.5       1.9         35       18.4       16.3       2.1         36       18.4       16.3       2.1         37       18.5       15.7       2.8         38       18.6       16.0       2.6         39       18.4       16.0       2.4         40       18.4       16.7       1.7         42       18.1       15.9       2.2         43       18.2       15.9       2.3         44       18.0       15.6       2.3         44       18.0       15.6       2.3         44       18.0       15.6       2.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75  dB$ CURRENT RECORD         P [15.2] Ch. 4       P [12.1] Ch. 71         Worst Adj: Carrier Oelta (dB):       P [15.2] Ch. 4       P [12.1] Ch. 51         Max-Min Carrier Delta (dB):       P [3.8] Ch. 54/4       P [5.4] Ch. 12/71         6 Month Delta:       PASS [5.9 dB] Ch. 71       P [5.4] Ch. 12/71				
33       18.2       16.5       1.7         34       18.4       16.5       1.9         35       18.4       16.3       2.1         36       18.4       16.3       2.1         37       18.5       15.7       2.8         38       18.6       16.0       2.6         39       18.4       16.0       2.4         40       18.4       16.7       1.7         42       18.1       15.9       2.2         43       18.2       15.9       2.3         44       18.0       15.6       2.4         45       17.9       15.6       2.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75  dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75  dB$ Worst Adj: Carrier (dBmv):       P [15.2] Ch. 4       P [12.1] Ch. 71         Worst Adj: Carrier Delta (dB):       P [15.2] Ch. 4       P [2.4] Ch. 51       P [2.4] Ch. 51         Max-Min Carrier Delta (dB):       P [3.8] Ch. 54/4       P [5.4] Ch. 12/71       6 Month Delta: PASS [5.9 dB] Ch. 71		18.3	10.4	
$34$ $18.4$ $16.5$ $1.9$ $35$ $18.4$ $16.3$ $2.1$ $36$ $18.4$ $16.3$ $2.1$ $37$ $18.5$ $15.7$ $2.8$ $38$ $18.6$ $16.0$ $2.6$ $39$ $18.4$ $16.0$ $2.4$ $40$ $18.4$ $16.7$ $1.7$ $42$ $18.4$ $16.7$ $1.7$ $42$ $18.4$ $15.9$ $2.2$ $43$ $18.2$ $15.9$ $2.2$ $43$ $18.2$ $15.6$ $2.3$ $44$ $18.0$ $15.6$ $2.3$ $44$ $18.0$ $15.6$ $2.3$ $46$ $17.6$ $15.6$ $2.0$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         CURRENT RECORD         Lowest Visual Carrier (dBmv):       P [15.2] Ch. 4       P [12.1] Ch. 71         Worst Adj: Carrier Delta (dB):       P [13.8] Ch. 54/4       P [2.4] Ch. 51       P [2.4] Ch. 51         Max-Min Carrier Delta (dB):       P [3.8] Ch. 54/4       P [5.4] Ch				
35       18.4       16.3       2.1         36       18.4       16.3       2.1         37       18.5       15.7       2.8         38       18.6       16.0       2.6         39       18.4       16.0       2.4         40       18.4       16.7       1.7         42       18.1       15.9       2.2         43       18.2       15.0       2.3         44       18.0       15.6       2.4         45       17.9       15.6       2.3         46       17.6       15.6       2.0         CURRENT RECORD       PREVIOUS RECORD         Worst CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75  dB$ CURRENT RECORD       P [12.1] Ch. 71         Worst Adj: Carrier (dBmv):       P [15.2] Ch. 4       P [12.1] Ch. 71         Worst Adj: Carrier Delta (dB):       P [1.4] Ch. 55       P [2.4] Ch. 51         Max-Min Carrier Delta (dB):       P [3.8] Ch. 54/4       P [5.4] Ch. 12/71         6 Month Delta:       PASS [5.9 dB] Ch. 71       P [5.4] Ch. 12/71		18.4		
$36$ 18.4 $16.3$ $2.1$ $37$ $18.5$ $15.7$ $2.8$ $38$ $18.6$ $16.0$ $2.6$ $39$ $18.4$ $16.0$ $2.4$ $40$ $18.4$ $16.7$ $1.7$ $42$ $18.1$ $15.9$ $2.2$ $43$ $18.2$ $15.9$ $2.2$ $43$ $18.2$ $15.6$ $2.3$ $44$ $18.0$ $15.6$ $2.3$ $44$ $18.0$ $15.6$ $2.3$ $46$ $17.6$ $15.6$ $2.3$ $46$ $17.6$ $15.6$ $2.0$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75  dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75  dB$ Lowest Visual Carrier (dBmv):       P [15.2] Ch. 4         P [15.2] Ch. 4       P [12.1] Ch. 71       P [2.4] Ch. 51         War.Min Carrier Delta (dB):       P [1.4] Ch. 55       P [2.4] Ch. 12/71         6 Month Delta:       PASS [5.9 dB] Ch. 71       P [5.4] Ch. 12/71		18.4		2.1
$37$ $18.5$ $15.7$ $2.8$ $38$ $18.6$ $16.0$ $2.6$ $39$ $18.4$ $16.0$ $2.4$ $40$ $18.4$ $16.7$ $1.7$ $42$ $18.1$ $15.9$ $2.2$ $43$ $18.2$ $15.9$ $2.3$ $44$ $18.0$ $15.6$ $2.3$ $44$ $18.0$ $15.6$ $2.3$ $44$ $18.0$ $15.6$ $2.3$ $46$ $17.6$ $15.6$ $2.0$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75  dB$ CURRENT RECORD       PREVIOUS RECORD $46$ $17.6$ $15.6$ $2.0$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75  dB$ Lowest Visual Carrier (dBmv):       P [15.2] Ch. 4       P [12.1] Ch. 71         Worst Adj: Carrier Delta (dB):       P [3.8] Ch. 54/4       P [5.4] Ch. 12/71         6 Month Delta:       PASS [5.9  dB] Ch. 71       P [5.4] Ch. 12/71       6 Month Delta:       PASS [5.9  dB] Ch. 71		18.4		
$38$ $18.6$ $16.0$ $2.6$ $39$ $18.4$ $16.0$ $2.4$ $40$ $18.4$ $16.7$ $1.7$ $42$ $18.1$ $15.9$ $2.2$ $43$ $18.2$ $15.9$ $2.3$ $44$ $18.0$ $15.6$ $2.4$ $45$ $17.9$ $15.6$ $2.3$ $46$ $17.6$ $15.6$ $2.0$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ Worst Adj: Carrier (dBmv): $P \ [15.2] Ch. 4$ $P \ [12.1] Ch. 71$ Worst Adj: Carrier Delta (dB): $P \ [1.4] Ch. 55$ $P \ [2.4] Ch. 51$ Max-Min Carrier Delta (dB): $P \ [3.8] Ch. 54/4$ $P \ [5.4] Ch. 12/71$ 6 Month Delta:       PASS [5.9 dB] Ch. 71       P $\ [5.4] Ch. 12/71$	37	18.5		
39       18.4       16.0       2.4         40       18.4       16.7       1.7         42       18.1       15.9       2.2         43       18.2       15.9       2.3         44       18.0       15.6       2.4         45       17.9       15.6       2.3         46       17.6       15.6       2.3         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ Worst Adj: Carrier (dBmv): P [15.2] Ch. 4         P [15.2] Ch. 4         Worst Adj: Carrier Delta (dB): P [1.4] Ch. 55         P [2.4] Ch. 51         Max-Min Carrier Delta (dB): P [3.8] Ch. 54/4       P [5.4] Ch. 12/71         6 Month Delta: PASS [5.9 dB] Ch. 71       P [5.4] Ch. 12/71		18.6	16.0	2.6
40       18.4       16.7       1.7         42       18.1       15.9       2.2         43       18.2       15.9       2.3         44       18.0       15.6       2.4         45       17.9       15.6       2.3         46       17.6       15.6       2.3         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ Worst Adj: Carrier (dBmv):         P [15.2] Ch. 4       P [12.1] Ch. 71         Worst Adj: Carrier Delta (dB):       P [14.1] Ch. 55       P [12.1] Ch. 71         Wax-Min Carrier Delta (dB):       P [3.8] Ch. 54/4       P [5.4] Ch. 12/71         6 Month Delta:       PASS [5.9 dB] Ch. 71       P [5.4] Ch. 12/71		18.4		
43       18.2       15.9       2.3         44       18.0       15.6       2.4         45       17.9       15.6       2.3         46       17.6       15.6       2.3         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ Lowest Visual Carrier (dBmv): P [15.2] Ch. 4       P [12.1] Ch. 71         Worst Adj: Carrier Delta (dB): P [1.4] Ch. 55       P [12.1] Ch. 71       P [2.4] Ch. 51         Max-Min Carrier Delta (dB): P [3.8] Ch. 54/4       P [5.4] Ch. 12/71       6 Month Delta: PASS [5.9 dB] Ch. 71         PASS		18.4		1.7
44       18.0       15.6       2.4         45       17.9       15.6       2.3         46       17.6       15.6       2.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ CURRENT RECORD         Lowest Visual Carrier (dBmv):         P       15.2] Ch. 4       P         Worst Adj: Carrier Delta (dB):       P       11.4] Ch. 55       P         Max-Min Carrier Delta (dB):       P       13.8] Ch. 54/4       P       15.4] Ch. 12/71         6 Month Delta:       PASS       [5.9 dB]       Ch. 71       PASS		18.1		2.2
4517.915.62.34617.615.62.0WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ CURRENT RECORDPREVIOUS RECORDLowest Visual Carrier (dBmv):P [15.2] Ch. 4P [12.1] Ch. 71Worst Adj: Carrier Delta (dB):P [14.1] Ch. 55P [12.4] Ch. 51Max-Min Carrier Delta (dB):P [3.8] Ch. 54/4P [5.4] Ch. 12/716 Month Delta: PASS [5.9 dB] Ch. 71	43		the second second second second second second second second second second second second second second second se	
4617.615.62.0WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ CURRENT RECORDLowest Visual Carrier (dBmv):P [15.2] Ch. 4P P [12.1] Ch. 71Worst Adj: Carrier Delta (dB):P [14.4] Ch. 55P [2.4] Ch. 51Max-Min Carrier Delta (dB):P [3.8] Ch. 54/4P [5.4] Ch. 12/716 Month Delta:PASS [5.9 dB] Ch. 71	44			
WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         CURRENT RECORD       PREVIOUS RECORD         Lowest Visual Carrier (dBmv):       P [15.2] Ch. 4       P [12.1] Ch. 71         Worst Adj: Carrier Delta (dB):       P [14.4] Ch. 55       P [2.4] Ch. 51         Max-Min Carrier Delta (dB):       P [3.8] Ch. 54/4       P [5.4] Ch. 12/71         6 Month Delta:       PASS [5.9 dB] Ch. 71	45	and the second second second second second second second second second second second second second second second		the second states and the second states and
CURRENT RECORD         PREVIOUS RECORD           Lowest Visual Carrier (dBmv):         P [15.2] Ch. 4         P [12.1] Ch. 71           Worst Adj: Carrier Delta (dB):         P [1.4] Ch. 55         P [2.4] Ch. 51           Max-Min Carrier Delta (dB):         P [3.8] Ch. 54/4         P [5.4] Ch. 12/71           6 Month Delta:         PASS         [5.9 dB] Ch. 71	40	1/.0	15.6	2.0
Lowest Visual Carrier (dBmv):       P [15.2] Ch. 4       P [12.1] Ch. 71         Worst Adj: Carrier Delta (dB):       P [1.4] Ch. 55       P [2.4] Ch. 51         Max-Min Carrier Delta (dB):       P [3.8] Ch. 54/4       P [5.4] Ch. 12/71         6 Month Delta:       PASS       [5.9 dB] Ch. 71	WORST CASE MEAS	UREMENT DATA - WITHIN RA	TED ACCURACY OF MEASU	RING DEVICE ± .75 dB
Max-Min Carrier Delta (dB):         P [3.8] Ch. 54/4         P [5.4] Ch. 12/71           6 Month Delta:         PASS         [5.9 dB] Ch. 71		Carrier (dBmv): P [15.2] Ch	.4 P [12.1]	Ch. 71
6 Month Delta: PASS [5.9 dB] Ch. 71 PASS				Ch. 12/71
			- 11 ×	-
able	PASS			
adie	· · · · · · · · · · · · · · · · · · ·			
	able.			

## FCC Compliance 76.605(a) - (3), (7), (8), (9)(i), (9)(ii), (11) *Proof-lt 3.0.8 - Ser.# P300A0545*

#### Date: 01/22/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #4 Strackville Rd

#### **Technician: Bob Greer**

CH.	C/N -dBc	CSO -dBc	CTB -dBc	In-Ch (p-v)	Aural Diff kHz	Hum %
4	49.0	64.5	61.6	1.40	+0.000	1.0
14	49.1	64.7	64.6	2.10	+0.000	.9
8	49.0	66.5	52.7	1.70	+0.000	.7
9	48.2	65.4	58.1	1.60	+0.000	.7
36	46.5	64.1	63.3	1.30	-0.100	.8
39	47.5	67.2	56.6	2.20	-0.100	.8
44	47.5	71.0	54.1	1.70	+0.000	.8
49	47.2	67.9	62.2	2.10	+0.000	.7
54	48.2	56.7	51.7	1.60	+0.000	.7
66	47.9	62.5	55.2	2.50	+0.000	.8
67	48.2	58.5	52.3	1.60	+0.000	.9
116	48.9	59.2	56.2	2.10	+0.000	.7

An asterisk indicates a failed measurement.

PASS

Falcon Cable

MEASUREMENT	MEASUREMENT DEVICE	CAL DATE	SERIAL NO.
CSO/CTB	AGILENT 8591C	07/16/03	4109A04509
Carrier to Noise	TRILITHIC BANDPASS	07/16/03	200102124
Hum Modulation	AGILENT 8591C	07/16/03	4109A04509
Aural Carrier Frequency	AGILENT 8591C	07/16/03	4109A04509
In-Channel Frequency Response	AGILENT 8591C	07/16/03	4109A04509

Carrier to Noise:	(-46.5 dBc)	Pass	Hum Modulation:	(1 %)	Pass
Composite Triple Beat:	(-51.7 dBc)	Pass	Aural Frequency Difference:	(0.1 kHz)	Pass
Composite Second Order:	: (-56.7 dBc)	Pass	In-Ch Frequency Response:	(2.5 dB p-v)	Pass

Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 01-22-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #5 River Road Peru

-----

	Time: 12:25 Temp: 41.øF	Time: 18:25 Temp: 31.øF	Time: 0:25 Temp: 29.øF	Time: 6:25 Temp: 19 øF	
CHANNEL 2	RECORD 1 (dBmv) 17.5	RECORD 2 (dBmv) 17.5	RECORD 3 (dBmv) 17.5	RECORD 4 (dBmv) 17.5	DELTA (dB)
	17.0	17.1	17.1	17.5	0.0 0.3
4	16.3	16.4	16.4	16.3	a barrana a construction and a construction of the second se
5	17.4	17.3	17.2	10.3	0.1
6	17.7	17.7	17.2	17.5	0.2
95	17.7	17.6	17.6	17.5	0.2
96	18.4	18.3	18.4	17.5	0.1
98	18.0	18.2	18.2	18.1	0.1
99	17.6	17.8	17.6	17.4	0.4
14	18.1	18.3	18.2	17.9	0.4
15	17.9	18.2	17.9	18.1	0.3
16	17.1	17.2	17.0	17.0	0.2
17	18.0	18.0	17.7	17.9	0.3
18	17.5	17.6	17.6	17.8	0.3
20	18.0	18.0	17.9	18.0	0.1
21	18.3	18.3	18.0	18.3	0.3
22	18.3	18.3	18.3	18.2	0.1
7	18.2	18.3	18.3	17.8	0.5
8	18.6	18.8	18.8	18.7	0.2
9	18.1	18.2	18.2	18.2	0.1
10	18.5	18.3	18.5	18.5	0.2
11	18.5	18.6	18.6	18.6	0.1
12 13	18.6	18.7	18.4	18.6	0.3
23	17.8	18.1	18.1	18.0	0.3
23	17.9	17.7	17.9 18.4	17.8	0.2
25	17.8	18.0	18.0	18.4	0.2
26	17.6	17.7	17.8	17.7	0.2
27	17.3	17.5	17.4	17.4	0.2
28	17.7	17.6	17.5	17.7	0.2
29	17.6	17.7	17.8	17.7	0.2
30	17.9	17.7	17.3	17.3	0.6
31	17.5	17.3	17.3	17.6	0.3
32	17.5	17.4	17.7	17.6	0.3
33	17.3	17.5	17.3	17.2	0.3
34	17.7	17.8	17.9	17.5	().4
35	17.1	17.6	17.2	17.4	0.5
36	17.2	17.5	17.2	17.5	0.3
37	17.3	17.3	17.3	17.3	0.0
38 39	17.7	17.6	17.5	17.3	0.4
40	16.8	16.8	17.0	17.1	0.3
40	17.2 16.8	17.2 16.9	16.9	17.1	0.3
43	16.8	17.0	16.8 16.9	16.9	$\frac{0.1}{0.2}$
44	16.3	17.0	16.9	16.8	0.2
45	16.7	16.8	16.6	16.6	0.5
46	16.3	16.4	16.2	16.8 16.4	$\frac{0.2}{0.2}$ .
	CASE MEASUREMENT		ED ACCURACY OF ME.		······
	·······	· · · · · · · · · · · · · · · · · · ·	e e en la construction de la construction de		75 dB
west Visual Carrier		n. 73 P [13.7	Ch. 73 · · · · P· [1	3.7] Ch. 73	RECORD 4 [13.8] Ch. 77
orst Adj. Carrier De ax-Min Carrier Delt					1.5] Ch. 77   [4.9] Ch. 8/77
Hour Delta: PASS	5 [.6 dB] Ch. 30			111 Touring and an an and a set was set on a set of the	
PASS	<ul> <li>"WERPELL (P. BA) 1" "Extended and have any conserve</li> </ul>				
lcon Cable					

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01-22-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #5 River Road Peru

#### Technician: Bob Greer Equipment: 3010R Calibration Date: 07/2008

-----

	Time: 12:25	Time: 18:25	Time: 0:25	Time: 6:25	i
	Temp: 41.#F	Temp: 31.øF	Temp: 29.øF	Temp: 19 øF	
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)	RECORD 4 (dBmv)	DELTA (dB)
47	16.2	16.4	16.4	16.3	0.2
49	15.7	15.7	15.5	16.0	0.5
50	16.7	16.7	16.7	16.6	0.1
51	16.3	16.3	16.2	16.4	0.2
52	16.2	16.3	16.4	16.4	0.2
54	17.1	17.3	17.2	17.3	0.2
55	17.0	17.0	16.8	16.8	0.2
56	16.7	16.9	16.9	17.0	0.3
57	16.6	16.8	16.5	16.9	().4
58	16.9	17.0	17.0	17.0	0.1
59	16.5	16.5	16.5	16.6	0.1
60	16.5	16.6	16.8	17.0	0.5
61	15.9	16.1	16.1	16.2	0.3
63	16.7	16.4	16.7	16.9	().5
64	16.6	16.7 16.0	16.5	16.9	0.4
65	16.9	16.0	16.0 16.9	16.0	0.0
66	16.4	16.6	16.9	17.0	0.1
67	16.0	16.0	15.8	15.8	0.3
68	15.6	15.5	15.8	15.8	0.2
70	15.1	15.3	15.2	15.4	0.5
71	13.1	14.7	13.2	13.4	0.2
72	14.5	14.5	14.7	14.8	0.3
73	13.7	13.7	13.7	13.9	0.2
74	14.1	14.3	14.1	14.4	0.3
75	14.0	14.3	14.3	14.4	0.4
76	13.7	14.()	14.1	14.2	0.5
77	13.8	13.9	13.8	13.8	0.1
78	14.8	14.9	14.9	15.3	0.5
WORST	CASE MEASUREMENT	DATA - WITHIN RATE	ED ACCURACY OF ME	ASURING DEVICE ±.7	/5 dB
owest Visual Carrier 'orst Adj. Carrier Del lax-Min Carrier Delta Hour Delta: PASS	ta (dB): P [1.0] Ch. (dB): P [4.9] Ch.	. 73. P [13.7 49 P [1.0]	Ch. 73         P <td>3.7] Ch. 73 P .2] Ch. 49 P</td> <td>ECORD 4 [13.8] Ch. 77 [1.5] Ch. 77 [4.9] Ch. 8/77</td>	3.7] Ch. 73 P .2] Ch. 49 P	ECORD 4 [13.8] Ch. 77 [1.5] Ch. 77 [4.9] Ch. 8/77
	[.0 ub] C.N. 30				
PASS lcon Cable					

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01/22/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#5 River Rd Peru

CHANNEL	CURRENT (dBmv)	PREVIOUS (dBmv)	DELTA (dB)
2 3	17.5	16.4	1.1
	17.0	17.9	0.9
4	16.3 17.4	17.5	1.2
5	17.4	18.0 18.1	0.6
95	17.7	18.4	0.7
96	18.4	19.2	0.8
98	18.0	19.1	1.1
99	17.6	18.8	1.2
14 15	18.1 17.9	19.0 18.8	0.9
15	17.1	18.8	1.7
17	18.0	18.9	(),9
18	17.5	19.3	1.8
20	18.0	19.6	1.6
21	18.3	19.4	1.1
22	18.3	<u>19.8</u> 19.3	1.5
8	18.6	19.5	l.3
9	18.1	19.6	1.5
10	18.5	19.7	1.2
11	18.5	19.7	1.2
12	18.6	<u>19.9</u> 19.4	1.3
23	17.8	19.4	1.3
24	18.2	19.4	1.2
25	17.8	18.8	1.0
26	17.6	19.1	1.5
27 28	17.3	18.5	1.2
29	17.6	19.0	1.5
30	17.9	18.8	0.9
31	17.5	18.6	1.1
32	17.5	18.7	1.2
33 34	17.3	18.7 18.7	1.4
35	17.1	18.8	1.7
36	17.2	18.7	1.5
37	17.3	18.5	1.2
38	17.7	18.9	1.2
<u> </u>	16.8	18.1	<u> </u>
40	16.8	18.2	1.4
43	16.8	18.4	1.6
44	16.3	18.1	1.8
45	16.7	18.1	1.4
46	16.3	17.9	1.6
WORST CASE MEASU	REMENT DATA - WITHIN RA	TED ACCURACY OF MEASU	RING DEVICE ± .75 dB
Lowest Visual C Worst Adj. Carr Max-Min Carrie	ier Delta (dB): P [1.0] Ch.	73 49 P [16.2] P [1.5] C	Ch. 2
	r Delta (dB): P [4.9] Ch. 8 PASS [3.2 dB] Ch. 73	3/73 P [3.7] (	UL 8/78
ASS	α το διατικό το αγγοριστικό που πολογιστικό του του το πολογιστικο το πολογιστικο το πολογιστικο το ποι πολογισ		

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01/22/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#5 River Rd Peru

	CHANNEL	CURRENT (dBmv)	PREVIOUS (dBmv)	DELTA (dB)
	47	16.2	18.1	1.9 1.9
	<u>49</u> 50	15.7 16.7	17.6 17.7	1.9
-	51	16.3	17.9	1.6
	52	16.2	17.3	2.0
	54	17.1	18.5	1.4
···	55	17.0	18.9	1.9
1	56	16.7	18.7	2.0
	57	16.6	18.8	2.2
	58	16.9	18.4	1.5
	59	16.5	18.7	2.2
	60	16.5	18.7	2.2 2.8
	<u> </u>	15.9	<u>18.7</u> 18.8	2.0
	63	16.6	18.3	1.7
-		16.0	18.4	2.4
-	65	16.9	19.1	2.2
	66	16.4	18.8	2.4
	67	16.0	18.8	2.8
	68	15.6	18.5	2.9
	70	15.1	18.0	2.9
-	71	14.7	17.5	2.8
-	72 73	14.5 13.7	<u>17.2</u> 16.9	2.7 3.2
-	74	13.7	17.0	2.9
	75	14.0	17.0	3.1
	76	13.7	16.9	3.2
	78	14.8	16.2	1.4
 			······································	······································
		• • • • • • • • •	· • · · · · · · · · · · · · · · · · · ·	
·			generation in the second of the second second second second second second second second second second second se	· · · · · · · · · · · · · · · · · · ·
r I			[	· · · · · · · · · · · · · · · · · · ·
	WORST CASE MEASU	REMENT DATA - WITHIN RA	TED ACCURACY OF MEASU	JRING DEVICE ± .75 dB
	Lowest Visual C Worst Adj. Carri Max-Min Carrie	er Delta ( $dB$ ): P [1.0] Ch.	. 73 P [16.2 49 P [1.5]	Ch. 2
· ·		PASS [3.2 dB] Ch. 73		
PA	SS			
con Cable				

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01-22-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #5 River Road Peru

CHANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)
2	17.5	2.4	15.1
3 4	17.0 16.3	3.0	14.0 12.4
	10.5	2.6	14.8
5 6	17.7	3.4	14.3
95	17.7	3.5	14.2
96	18.4	4.1	14.3
98	18.0	3.9	14.1
99	17.6	3.0	14.6
14	18.1	3.6	14.5
15	17.9	3.8	14.1
16	17.1	2.8 2.9	14.3
17	18.0	3.3	15.1
20	17.5	3.7	14.2
20	18.3	3.7	14.6
22	18.3	4.2	14.1
7	18.2	3.7	14.5
8	18.6	1.6	17.0
9	18.1	4.2	13.9
10	18.5	4.()	14.5
11	18.5	3.5	15.0
12	18.6	4.4	14.2
23	17.8	3.4	13.8
24	18.2	3.7	14.5
25	17.8	3.8	14.0
26	17.6	3.4	14.2
27	17.3	3.9	13.4
28	17.7	3.3	14.4
29	17.6	3.6	14.0
30	17.9	3.6	14.3
	17.5	3.6	13.9
32 33	17.3	3.2	14.1
34	17.7	3.6	14.1
35	17.1	3.5	13.6
36	17.2	2.5	14.7
37	17.3	2.8	14.5
38	17.7	3.0	14.7
39	16.8	2.3	14.5
40 42	17.2	2.7 2.1	14.5
43	16.8	2.1	14.7
-14	10.8	2.4	14.4
45	16.7	2.3	14.0
46	16.3	1.9	14.4
WORST CASE MEASU	REMENT DATA - WITHIN RA Lowest Visual Carrier (dB Worst Upper V/A Ratio (c Worst Lower V/A Ratio (c Worst Adj. Carrier Delta ( Max-Min Carrier Delta (d	Bmv): P   13.7   Ch. 73 IB): P   17.0   Ch. 8 IB): P   12.4   Ch. 4 dB): P   1.0   Ch. 49	JRING DEVICE ± .75 dł
ASS			
**			

FCC Signal	Level	Compliance	76.605(a) -	(4),	(5)(i),	(5)(ii),	(6)
------------	-------	------------	-------------	------	---------	----------	-----

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01-22-2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #5 River Road Peru

CHANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)
47	16.2	2.0	14.2
49 50	15.7 16.7	<u>1.6</u> 0.9	<u>14.1</u> 15.8
50	16.7	2.2	15.8
52	16.2	2.3	13.9
54	17.1	3.0	13.5
55	17.0	2.8	14.2
56	16.7	2.8	13.9
57	16.6	2.6	14.0
58	16.9	2.9	14.0
59	16.5	2.1	14,4
60	16.5	2.7	13.8
61	15.9	2.4	13.5
62	16.7	2.5	<u>14.2</u> 14.3
63 64	16.6	2.0	14.3
65	16,9	2.0	14.5
66	16.4	2.0	14.4
67	16.0	1.4	14.6
68	15.6	1.6	14.0
70	15.1	0.9	14.2
71	14.7	0.4	14.3
72	14.5	0.0	14.5
73	13.7	-0.3	14.0
74	14.1	0.1	14.0
75 76	14.0	-0.4	13.7
70	13.7	-0.4	13.8
78	14.8	0.7	15.8
WORST CASE MEASU	REMENT DATA - WITHIN RA Lowest Visual Carrier (d. Worst Upper V/A Ratio ( Worst Lower V/A Ratio ( Worst Adj. Carrier Delta Max-Min Carrier Delta	dB):       P [17.0] Ch. 8         'dB):       P [12.4] Ch. 4         (dB):       P [1.0] Ch. 49	JRING DEVICE ± .75 dB

# FCC Compliance 76.605(a) - (3), (7), (8), (9)(i), (9)(ii), (11)

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01/22/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #5 River Road Peru

Technician: Bob Greer

CH.	C/N -dBc	CSO -dBc	CTB -dBc	In-Ch (p-v)	Aural Diff kHz	Hum %
4	49.4	70.2	64.6	.60	+0.000	.8
14	48.0	66.8	59.5	.50	+0.100	.7
8	47.3	67.0	61.6	.20	+0.000	.6
9	48.2	70.3	59.5	1.40	+0.000	.7
36	46.8	64.1	60.7	1.30	+0.000	.8
39	46.3	74.9	54.5	1.20	+0.000	.7
44	48.6	62.9	57.3	1.60	-0.100	.8
49	47.1	67.1	55.4	1.20	+0.000	.7
54	47.2	66.6	53.6	1.60	+0.000	.8
66	48.2	65.3	55.1	1.80	+0.000	.9
67	48.5	58.8	54.9	1.90	+0.000	.7
116	48.5	56.9	57.1	.80	+0.000	.7

An asterisk indicates a failed measurement.

MEASUREMENT	MEASUREMENT DEVICE	CAL DATE	SERIAL NO	
CSO/CTB	AGILENT 8591C	07/16/03	4109A04509	
Carrier to Noise	TRILITHIC BANDPASS	07/16/03	200102124	
Hum Modulation	AGILENT 8591C	07/16/03	4109A04509	
Aural Carrier Frequency	AGILENT 8591C	07/16/03	4109A04509	
In-Channel Frequency Response	AGILENT 8591C	07/16/03	4109A04509	

Worst Case Measurement Data						
Carrier to Noise:	(-46.3 dBc)	Pass	Hum Modulation:	(0.9 %)	Pass	
Composite Triple Beat:	(-53.6 dBc)	Pass	Aural Frequency Difference:	: (0.1 kHz)	Pass	
Composite Second Order	: (-56.9 dBc)	Pass	In-Ch Frequency Response:	(1.9 dB p-v)	Pass	

Falcon	Cable
raicon	1 anie

PASS

Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 01/22/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #6 RT9 VFW Keeseville

	Time: 14:08	Time: 20:08	Time: 02:08	Time: 08:08	1
	Temp: 70.øF	Temp: 31.øF	Temp: 23.øF	Temp: 15.øF	
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)	RECORD 4 (dBmv)	DELTA (dB)
<u> </u>	14.3	14.0	13.7	13.6	0.7
3	13.5		13.1	13.3	0.6
5	13.3	13.0	12.9		0.4
6	14.4	<u>14.5</u> 14.9	14.2	<u>13.9</u> 14.5	0.6
95	15.0	14.9	14.7	14.5	0.0
95	15.0	15.1	14.7	14.5	0.5
98	13.4	14.6	14.4	14.2	0.5
99	14.3	14.2	13.9	13.7	0.6
14	14.8	14.6	14,4	14.3	0.5
15	14.5	14.4	14.4	14.2	0.3
16	13.2	13.6	13.0	12.9	0.7
17	14.6	14.7	14.5	14.2	0.5
18	14.4	14.3	14.1	13.9	0.5
20	15.0	14.7	14.8	14.6	0.4
21	15.0	15.0	14.9	14.6	0.4
22	14.8	14.6	14.7	14.6	0.2
7	14.9	14.7	14.8	14.4	0.5
8	15.2	15.4	15.4	15.0	0.4
9	15.0	15.0	15.0	14.6	0.4
10	15.4	15.3	15.3	15.1	0.3
11	15.4	15.3	15.3	15.3	0.1
12	15.7	15.7	15.9	15.6	0.3
23	15.1	15.5 15.2	15.3 15.0	15.2 15.0	$\frac{0.4}{0.2}$
23	15.5	15.6	15.4	15.3	0.2
25	15.5	15.7	15.5	15.5	0.2
26	15.4	15.6	15.4	15.3	0.2
27	15.5	15.6	15.2	15.3	0.4
28	15.5	15.6	15.4	15.4	0.2
29	15.6	15.5	15.5	15.1	0.5
30	15.6	15.2	15.3	15.2	0.4
31	15.3	15.0	15.1	15.1	0.3
32	15.1	15.1	15.0	15.0	0.1
33	14.8	15.0	[4.8	14.8	0.2
<u>34</u> 35	14,9	15.2	14.8	14.7	0.5
30	14.6	[4.9	14.6	14.7	0.3
30	14.4	14.7 14.5	14.3 14.5	14.5	0.4
38	14.9	14.5	14.5	14.3 14.6	0.2
39	14.4	13.0	14.0	14.0	0.4
40	14.7	15.2	15.1	14.5	0.7
42	15.4	15.4	15.4	15.3	0.1
43	15.4	15.5	15.5	15.5	1.0
44	15.5	15.3	15.5	15.5	0.2
45	15.6	15.4	15.5	15.7	0.3
46	15.4	15.3	15.5	15.5	0.2
WORST			15.5 ED ACCURACY OF ME	· · · · · · · · · · · · · · · · · · ·	0.2 75 dB
owest.Visual Carrier orst Adj. Carrier De ax-Min Carrier Delt	lta (dB): P [1.4] Ch a (dB): P [5.8] Ch	h. 16 P   13.0 . 16 P   1.7]	Ch. 4         P [1]           Ch. 61         P [1]	2.9] Ch. 4 F .7] Ch. 61 P	RECORD 4 ? [12.9] Ch. 3 ? [1.6] Ch. 61 ? [6.6] Ch. 60/3
Hour Delta: PAS	5 [1.2 dB] Ch. 50				
PASS					
lcon Cable					

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01/22/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #6 RT9 VFW Keeseville

	Time: 14:08 Temp: 70.øF	Time: 20:08 Temp: 31.øF	Time: 02:08 Temp: 23.øF	Time: 08:08 Temp: 15.øF	· • •
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)	RECORD 4 (dBmv)	DELTA (dB)
47	15.7	15.9	15.6	15.7	0.3
49	15.7	16.1	15.2	15.1	1.0
50	17.1	17.3	16.2	16.1	1.2
51	16.7	17.1	16.3	16.5	0.8
52	17.1	17.4	16.8	17.0	0.6
54	18.1	18.6	18.1	18.2	0.5
55	18.5	18.8	18.5	18.3	0.5
56	18.3	18.7	18.5	18.5	0.4
57	18.5	18.9	18.0	18.6	0.9
58	18.8	19.1	18.8 18.8	19.0	0.3 0.5
<u>59</u> 60	18.9	19.5	19.2	19.0	0.5
61	19.0	19.6	19.2	19.3	0.0
62	18.5	17.0	17.4	17.6	0.6
63	16.2	16.1	16.2	16.0	0.2
64	15.5	15.9	15.2	15.4	0.7
65	16.8	17.0	16.7	16.9	0.3
66	17.2	17.4	17.2	16.9	0.5
67	17.1	17.2	!7.0	16.7	0.5
68	17.1	17.4	17.4	17.1	0.3
70	16.3	16.7	16.6	16.5	0.4
71	15.7	15.9	15.9	15.4	0.5
72	15.3	15.7	15.9	15.7	0.6
73 74	14.8	<u> </u>	15.2	15.4 15.8	0.6
75	15.1	15.8	15.7	15.8	0.7
76	14.5	15.1	15.1	15.2	0.7
78	14.1	14.1	13.1	14.3	0.2
WORST	CASE MEASUREMENT		ED ACCURACY OF ME	Kommon anno 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 20	
owest Visual Carrier orst Adj. Carrier De ax-Min Carrier Delt Hour Delta: PASS	İta (dB): P [1.4] Ch a (dB): P [5.8] Ch	h. 16 P [13.0 . 16 P [1.7]	I Ch. 4         P []           Ch. 61         P []	2.9] Ch. 4 .7] Ch. 61	RECORD 4 2 [12.9] Ch. 3 2 [1.6] Ch. 61 2 [6.6] Ch. 60/3
PASS	, [1.2 u] (II. 30				

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01/22/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#6 RT 9 VFW Keeseville

2         14.3         16.2         1.9           3         13.5         16.6         3.1           5         14.4         17.3         2.9           6         17.1         2.0           95         15.0         17.9         2.0           96         14.1         17.1         2.0           97         16.6         14.1         17.1         2.0           98         14.7         17.2         2.5         1.0           99         14.3         16.8         2.3         1.0           15         14.5         16.8         2.3         1.0           16         13.2         16.2         3.0         1.7           16         13.2         16.2         3.0         1.7           17         14.4         14.3         16.8         1.1           18         14.4         17.0         2.6         2.0           21         15.0         17.0         2.0         1.0           18         15.1         16.6         1.3         1.3           19         15.0         16.6         1.5         1.3           22         14.4         1.5 <th>CHANNEL</th> <th>CURRENT (dBmv)</th> <th>PREVIOUS (dBmv)</th> <th>DELTA (dB)</th> <th></th>	CHANNEL	CURRENT (dBmv)	PREVIOUS (dBmv)	DELTA (dB)	
4         13.3         16.4         13.1           5         14.4         17.3         2.9           95         15.0         17.9         2.9           96         15.4         17.4         2.0           97         14.3         16.8         2.5           14         14.4.5         16.8         2.5           14         14.5         16.5         2.3           15         14.5         16.5         2.0           17         14.6         16.6         2.0           18         14.4         17.0         2.6           20         15.0         17.0         2.0           21         15.0         17.0         2.0           22         14.8         17.1         2.3           9         15.0         16.8         1.4           10         15.4         17.1         1.7           12         15.7         17.3         1.6           13         15.1         16.6         1.5           23         15.5         16.8         1.3           24         15.5         16.6         1.1           13         15.1         16.6	2	14.3	16.2	1.9	
5         151         173         29           95         150         173         20           96         154         174         20           96         154         174         20           96         147         172         23           97         143         168         23           15         144         148         165         21           15         144         148         166         20           16         132         166         20         20           16         132         166         20         20           17         146         150         170         20           22         148         171         23         25           10         150         170         20         20           22         148         171         23         17           10         154         168         14         17           11         154         168         14         17           12         157         173         166         15           23         151         166         15         1	3			3.1	
95         15.0         17.4         2.0           98         14.7         17.2         2.5           99         14.3         16.8         2.1           15         14.5         16.8         2.3           15         14.4.5         16.8         2.3           16         13.2         16.2         3.0           17         14.6         16.6         2.0           18         14.4         17.0         2.6           20         15.0         17.0         2.0           21         15.0         17.0         2.0           22         14.8         17.1         2.3           7         14.9         16.4         1.5           9         15.0         17.0         2.0           10         15.4         16.5         1.7           9         15.0         16.8         1.4           11         15.4         16.5         1.5           23         15.1         16.6         1.5           24         15.5         16.8         1.3           25         15.5         16.6         1.1           26         15.4         17.2 </td <td>5</td> <td></td> <td>10.4</td> <td><u> </u></td> <td><math>\epsilon = 1</math></td>	5		10.4	<u> </u>	$\epsilon = 1$
95         15.0         17.4         2.0           98         14.7         17.2         2.5           99         14.3         16.8         2.1           15         14.5         16.8         2.3           15         14.4.5         16.8         2.3           16         13.2         16.2         3.0           17         14.6         16.6         2.0           18         14.4         17.0         2.6           20         15.0         17.0         2.0           21         15.0         17.0         2.0           22         14.8         17.1         2.3           7         14.9         16.4         1.5           9         15.0         17.0         2.0           10         15.4         16.5         1.7           9         15.0         16.8         1.4           11         15.4         16.5         1.5           23         15.1         16.6         1.5           24         15.5         16.8         1.3           25         15.5         16.6         1.1           26         15.4         17.2 </td <td></td> <td></td> <td>17.5</td> <td>2.9</td> <td></td>			17.5	2.9	
96         15.4         17.4         20           99         14.7         17.2         5.5           14         14.8         16.9         2.1           15         14.5         16.8         2.3           16         13.2         16.6.2         3.0           17         14.6         16.6.2         3.0           18         14.4.4         17.0         2.0           20         15.0         17.0         2.0           21         15.0         17.0         2.0           22         14.8         17.1         2.3           7         14.9         16.4         15           9         15.0         16.8         1.8           10         15.4         17.1         1.7           12         15.7         17.3         1.6           23         15.1         16.6         1.5           24         15.5         16.8         1.3           25         15.5         16.6         1.3           26         15.4         17.2         1.8           27         15.5         16.6         1.3           26         15.6         16.		15.0	17.9	2.9	
99         143         163         2,5           15         14,8         16,9         2,1           15         14,5         16,9         2,1           16         13,2         16,2         3,0           17         14,6         16,6         2,0           18         14,4         17,0         2,6           20         15,0         17,0         2,0           21         15,0         17,0         2,0           22         14,8         17,1         2,3           7         14,9         16,4         1,5           8         15,2         16,9         1,7           9         15,0         16,8         1,8           10         15,4         16,6         1,5           23         15,1         16,6         1,5           24         15,5         16,8         1,3           25         15,5         16,8         1,3           26         15,4         17,2         1,8           27         15,5         16,6         1,1           30         15,6         16,7         1,1           30         15,6         16,7			17.4	2.0	
14       14.5       16.3       2.1         15       14.5       16.3       2.3         16       13.2       16.2       3.0         17       14.6       16.6       2.0         18       14.4       17.0       2.6         20       15.0       17.0       2.0         21       15.0       17.0       2.0         22       14.8       17.1       2.3         7       14.9       16.4       1.5         8       15.2       16.9       1.7         9       15.0       16.8       1.4         11       15.4       16.6       1.5         23       15.1       16.6       1.5         23       15.1       16.6       1.5         24       15.5       16.8       1.3         25       15.5       16.0       1.1         29       15.6       16.7       1.1         20       15.6       16.7       1.1         20       15.6       16.7       1.1         29       15.6       16.7       1.1         30       15.6       0.7       1.1         30<	98		17.2	2.5	
15         14.5         16.8         2.3           16         13.2         16.2         3.0           17         14.6         16.6         2.0           18         14.4         17.0         2.6           20         15.0         17.0         2.0           21         15.0         17.0         2.0           22         14.8         17.1         2.3           7         14.9         16.4         1.5           9         15.0         16.8         1.8           10         15.4         17.1         1.7           9         15.0         16.8         1.8           11         15.4         17.1         1.7           12         15.7         17.3         1.6           13         15.1         16.6         1.5           23         15.1         16.6         1.5           24         15.5         16.8         1.3           25         15.5         16.8         1.3           26         15.4         17.2         1.8           27         15.5         16.6         1.1           30         15.6         16.7 <td>to be been a second second second second second second second second second second second second second second</td> <td></td> <td>16.8</td> <td>2.5</td> <td></td>	to be been a second second second second second second second second second second second second second second		16.8	2.5	
16         13.2         16.2         3.0           17         14.6         16.6         2.0           18         14.4         17.0         2.6           20         15.0         17.0         2.0           21         15.0         17.0         2.0           22         14.8         17.1         2.3           7         14.9         16.4         1.5           8         15.2         16.9         1.7           9         15.0         16.8         1.4           11         15.4         16.6         1.5           12         15.7         17.3         1.6           13         15.1         16.6         1.5           24         15.5         16.8         1.3           25         15.5         16.8         1.3           26         15.4         17.2         1.8           27         15.5         16.6         1.1           30         15.6         16.7         1.1           30         15.6         16.7         1.1           30         15.6         16.7         1.1           30         15.6         16.7 <td>15</td> <td>14.5</td> <td>16.8</td> <td>2.1</td> <td></td>	15	14.5	16.8	2.1	
17         14.6         16.6         2.0           20         15.0         17.0         2.6           21         15.0         17.0         2.0           22         14.8         17.1         2.3           7         14.9         16.4         1.5           8         15.2         16.9         1.7           9         15.0         16.8         1.8           10         15.4         16.8         1.4           11         15.4         16.6         1.5           23         15.1         16.6         1.5           24         15.5         16.8         1.3           25         15.5         16.8         1.3           26         15.4         17.2         1.8           25         15.5         16.6         1.1           28         15.5         16.6         1.1           29         15.6         16.7         1.1           30         15.6         16.7         1.1           30         15.6         16.7         1.1           30         15.6         16.7         1.1           31         15.3         16.0 <td></td> <td></td> <td>16.2</td> <td>3.0</td> <td>in i di i</td>			16.2	3.0	in i di i
20         15.0         17.0         2.0           21         15.0         17.0         2.0           22         14.8         17.1         2.3           7         14.9         16.4         1.5           8         15.2         16.9         1.7           9         15.0         16.8         1.8           10         15.4         16.8         1.4           11         15.7         17.3         1.6           23         15.1         16.6         1.5           24         15.5         16.8         1.3           25         15.5         16.8         1.3           26         15.4         17.2         1.8           27         15.5         16.6         1.1           30         15.6         16.7         1.1           30         15.6         16.7         1.1           30         15.6         16.0         0.7           31         15.3         16.0         0.7           32         15.1         16.0         0.7           33         14.4         15.4         0.0           35         14.6         15.4 <td></td> <td></td> <td>16.6</td> <td>2.0</td> <td></td>			16.6	2.0	
21 $5.0$ $17.0$ $2.0$ $7$ $14.9$ $16.4$ $1.5$ $8$ $15.2$ $16.9$ $1.7$ $9$ $15.0$ $16.8$ $18$ $10$ $15.4$ $16.8$ $18$ $10$ $15.4$ $17.1$ $1.7$ $9$ $15.0$ $16.8$ $18$ $11$ $15.4$ $17.1$ $1.7$ $12$ $15.7$ $17.3$ $1.6$ $13$ $15.1$ $16.6$ $1.5$ $23$ $15.1$ $16.6$ $1.5$ $24$ $15.5$ $16.6$ $1.1$ $25$ $15.5$ $16.6$ $1.1$ $26$ $15.4$ $17.2$ $1.8$ $27$ $15.5$ $16.6$ $1.1$ $29$ $15.6$ $16.7$ $1.1$ $29$ $15.6$ $16.7$ $1.1$ $30$ $15.6$ $0.7$ $3.1$ $31$			17.0	2.6	
22       14.8       17.1       2.3         7       14.9       16.4       1.5         8       15.2       16.9       1.7         9       15.0       16.8       1.8         10       15.4       16.8       1.4         11       15.4       17.1       1.7         12       15.7       17.3       1.6         23       15.1       16.6       1.5         24       15.5       16.8       1.3         25       15.5       16.8       1.3         26       15.4       17.2       1.8         27       15.5       16.6       1.1         28       15.5       16.6       1.1         29       15.6       16.7       1.2         28       15.5       16.0       0.7         30       15.6       16.3       0.7         31       15.3       16.0       0.9         32       15.1       16.0       0.9         33       14.8       15.6       0.7         34       14.5       15.2       0.7         35       14.6       15.4       0.8         3					
7         14.9         16.4         1.5           8         15.2         16.9         1.7           9         15.0         16.8         1.8           10         15.4         16.8         1.4           11         15.4         17.3         1.6           13         15.1         16.6         1.5           23         15.1         16.6         1.5           24         15.5         16.8         1.3           25         15.3         16.8         1.3           26         15.4         17.2         1.8           27         15.5         16.7         1.2           28         15.5         16.0         0.7           30         15.6         16.3         0.7           31         15.3         16.0         0.9           33         14.8         15.6         0.8           34         14.9         15.6         0.7           35         14.6         15.4         0.8           36         14.4         15.3         0.9           37         14.5         15.2         0.7           38         14.9         15.4 <td></td> <td></td> <td></td> <td></td> <td></td>					
8         152         16.9         1.7           9         15.0         16.8         1.8           10         15.4         16.8         1.4           11         15.4         17.1         1.7           12         15.7         17.3         1.6           23         15.1         16.6         1.5           24         15.5         16.8         1.3           26         15.4         17.2         1.8           27         15.5         16.6         1.1           28         15.5         16.6         1.1           29         15.6         16.7         1.1           30         15.6         16.7         1.1           30         15.6         16.7         1.1           30         15.6         16.7         1.1           30         15.6         0.7         1.1           30         15.6         0.7         1.1           30         15.6         0.7         1.1           30         15.6         0.7         1.1           30         15.6         0.7         1.1           31         15.3         0.0			16.4		
9         15.0         16.8         1.8           10         15.4         16.8         1.4           11         15.4         17.1         1.7           12         15.7         17.3         1.6           23         15.1         16.6         1.5           24         15.5         16.8         1.3           25         15.5         16.8         1.3           26         15.4         17.2         1.8           27         15.5         16.6         1.1           28         15.5         16.6         1.1           30         15.6         16.7         1.1           31         15.3         16.0         0.7           31         15.3         16.0         0.7           31         15.3         16.0         0.7           32         15.1         16.0         0.9           33         14.8         15.6         0.8           34         14.9         15.6         0.7           35         14.4         15.3         0.9           37         14.5         15.2         0.7           38         14.9         15.4<	8	15.2	16.9		<u></u>
11       15.4       17.1       1.7         12       15.7       17.3       1.6         13       15.1       16.6       1.5         23       15.5       16.8       1.3         24       15.5       16.8       1.3         25       15.5       16.8       1.3         26       15.4       17.2       1.8         27       15.5       16.6       1.1         30       15.6       16.7       1.1         30       15.6       16.3       0.7         31       15.3       16.0       0.7         32       15.1       16.0       0.9         33       14.8       15.6       0.7         35       14.6       15.4       0.8         36       14.4       15.3       0.9         37       14.5       15.2       0.7         38       14.9       15.1       0.2         39       14.4       14.5       0.2         40       14.7       15.8       1.1         42       15.4       16.2       0.7         45       15.6       16.4       0.8 <t< td=""><td></td><td></td><td>16.8</td><td>1.8</td><td></td></t<>			16.8	1.8	
12         15.7         17.3         1.6           13         15.1         16.6         1.5           23         15.1         16.6         1.5           24         15.5         16.8         1.3           25         15.5         16.8         1.3           26         15.4         17.2         1.8           27         15.5         16.7         1.2           28         15.6         16.7         1.1           29         15.6         16.7         1.1           30         15.6         16.3         0.7           31         15.3         16.0         0.9           33         14.8         15.6         0.8           34         14.9         15.4         0.7           35         14.6         15.4         0.8           34         14.9         15.1         0.2           35         14.4         15.4         0.8           36         14.4         15.4         0.2           40         14.4         15.4         0.0           42         15.4         16.0         0.6           44         15.5         16.2		15.4			
13       15.1       16.6       1.5         23       15.1       16.6       1.5         24       15.5       16.8       1.3         25       15.5       16.8       1.3         26       15.4       17.2       1.8         27       15.5       16.6       1.1         28       15.5       16.6       1.1         29       15.6       16.7       1.1         30       15.6       16.0       0.7         31       15.3       16.0       0.7         32       15.1       16.0       0.9         33       14.8       15.6       0.8         34       14.9       15.5       0.7         35       14.6       15.4       0.8         36       14.4       15.3       0.9         37       14.5       15.2       0.7         38       14.9       15.1       0.2         39       14.4       14.6       0.2         40       14.7       15.8       1.1         42       15.4       16.2       0.7         43       15.4       16.2       0.7 <t< td=""><td></td><td></td><td>1/.1</td><td></td><td></td></t<>			1/.1		
23         15.1         16.6         1.5           24         15.5         16.8         1.3           25         15.5         16.8         1.3           26         15.4         17.2         1.8           27         15.5         16.6         1.1           29         15.6         16.7         1.1           30         15.6         16.7         1.1           30         15.6         16.3         0.7           31         15.3         16.0         0.7           32         15.1         16.0         0.9           33         14.8         15.6         0.7           35         14.6         15.4         0.8           36         14.4         15.3         0.9           37         14.5         15.2         0.7           38         14.9         15.1         0.2           39         14.4         14.6         0.2           40         14.7         15.8         1.1           42         15.4         16.0         0.6           43         15.4         16.0         0.6           44         15.4         16.4	13				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			16.6		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			16.8	1.3	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			16.8		1
28       15.5       16.6       1.1         29       15.6       16.7       1.1         30       15.6       16.7       1.1         30       15.6       16.7       1.1         30       15.6       16.7       1.1         30       15.6       16.7       0.7         31       15.3       16.0       0.7         32       15.1       16.0       0.9         33       14.8       15.6       0.8         34       14.9       15.6       0.7         35       14.6       15.4       0.8         36       14.4       15.3       0.9         37       14.5       15.2       0.7         38       14.4       14.6       0.2         40       14.7       15.8       1.1         42       15.4       16.0       0.0         43       15.4       16.0       0.6         44       15.5       16.2       0.7         45       15.6       16.4       0.8         46       15.4       16.4       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$			17.2		
29       15.6       16.7       1.1         30       15.6       16.3       0.7         31       15.3       16.0       0.7         32       15.1       16.0       0.9         33       14.8       15.6       0.8         34       14.9       15.6       0.7         35       14.6       15.4       0.8         36       14.4       15.3       0.9         37       14.5       15.2       0.7         38       14.9       15.1       0.2         39       14.4       14.6       0.2         40       14.7       15.8       1.1         42       15.4       0.0       0.6         43       15.4       0.0       0.6         44       15.5       16.2       0.7         45       15.6       16.4       0.0         46       15.4       16.4       1.0    Worst CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75.4B$ Worst Adj. Carrier Oelta (dB): P [13.2] Ch. 16 P [13.1] Ch. 71 P [13.1] Ch. 71 P [13.1] Ch. 71 Max-Min Carrier Delta (dB): P [5.8] Ch. 60/16 P [5.3] Ch. 55/71 6 Month Delta: P ASS [3.1 dB] Ch. 3 PASS		15.5			
30       15.6       16.3       0.7         31       15.3       16.0       0.7         32       15.1       16.0       0.9         33       14.8       15.6       0.8         34       14.9       15.6       0.7         35       14.6       15.4       0.8         36       14.4       15.3       0.9         37       14.5       15.2       0.7         38       14.9       15.1       0.2         40       14.4       15.3       0.9         41.4       15.4       0.2       0.7         38       14.9       15.1       0.2         40       14.4       14.6       0.2         40       14.7       15.8       1.1         42       15.4       16.0       0.6         43       15.4       16.0       0.6         44       15.5       16.2       0.7         45       15.6       16.4       1.0         Worst CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         Worst Adj. Carrier Delta (dB):         P       13.21 Ch. 16       P       11.31 Ch. 71	. 29		16.7		
$32$ 15.1       16.0       0.9 $33$ 14.8       15.6       0.8 $34$ 14.9       15.6       0.7 $35$ 14.6       15.4       0.8 $36$ 14.4       15.3       0.9 $37$ 14.5       15.2       0.7 $38$ 14.9       15.1       0.2 $39$ 14.4       14.6       0.2 $40$ 14.7       15.8       1.1 $42$ 15.4       15.4       0.0 $41$ 15.5       16.2       0.7 $44$ 15.5       16.2       0.7 $45$ 15.6       16.4       0.8 $46$ 15.4       16.4       1.0    Worst Case Measurement data - within rated accuracy of measuring device $\pm .75$ dB Worst Adj. Carrier Delta (dB): P [13.2] Ch. 16 P [13.2] Ch. 16  P [13.3] Ch. 55/71 6 Month Delta: PASS [3.1 dB] Ch. 3 PASS		15.6	16.3	0.7	
33       14.8       15.6       0.8         34       14.9       15.6       0.7         35       14.6       15.4       0.8         36       14.4       15.3       0.9         37       14.5       15.2       0.7         38       14.9       15.1       0.2         39       14.4       14.6       0.2         40       14.7       15.8       1.1         42       15.4       0.0       0.6         43       15.4       0.0       0.6         44       15.5       16.2       0.7         45       15.6       16.4       0.8         46       15.4       16.4       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75  dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75  dB$ Worst Adj. Carrier Delta (dB):         P       11.3.2] Ch. 16       P         Max-Min Carrier Delta (dB):       P       15.8] Ch. 60/16       P         P       15.8] Ch. 60/16       P       15.3] Ch. 55/71         6       Month Delta:       PASS [3.1 dB] Ch. 3       3 <td>31</td> <td></td> <td>16.0</td> <td></td> <td></td>	31		16.0		
$34$ $14.9$ $15.6$ $0.7$ $35$ $14.6$ $15.4$ $0.8$ $36$ $14.4$ $15.3$ $0.9$ $37$ $14.5$ $15.2$ $0.7$ $38$ $14.9$ $15.1$ $0.2$ $39$ $14.4$ $14.6$ $0.2$ $40$ $14.7$ $15.8$ $1.1$ $42$ $15.4$ $15.4$ $0.0$ $43$ $15.4$ $16.2$ $0.7$ $44$ $15.5$ $16.2$ $0.7$ $45$ $15.6$ $16.4$ $0.8$ $46$ $15.4$ $16.4$ $1.0$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ Method belta (B):         P [13.1] Ch. 71	33		16.0		
$35$ $14.6$ $15.4$ $0.3$ $36$ $14.4$ $15.3$ $0.9$ $37$ $14.5$ $15.2$ $0.7$ $38$ $14.9$ $15.1$ $0.2$ $39$ $14.4$ $14.6$ $0.2$ $40$ $14.7$ $15.8$ $1.1$ $42$ $15.4$ $15.4$ $0.0$ $43$ $15.4$ $16.0$ $0.6$ $44$ $15.5$ $16.2$ $0.7$ $45$ $15.6$ $16.4$ $0.8$ $46$ $15.4$ $16.4$ $0.8$ $46$ $15.4$ $16.4$ $1.0$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$			15.0		
$\frac{36}{37} = \frac{14.4}{14.5} = \frac{15.3}{15.2} = \frac{0.9}{0.7}$ $\frac{37}{38} = \frac{14.9}{14.4} = \frac{15.1}{0.2} = \frac{0.7}{0.7}$ $\frac{38}{40} = \frac{14.4}{14.6} = \frac{0.2}{0.2}$ $\frac{40}{40} = \frac{14.7}{14.7} = \frac{15.8}{15.8} = \frac{1.1}{1.1}$ $\frac{42}{42} = \frac{15.4}{15.4} = \frac{16.0}{0.0} = \frac{0.6}{0.6}$ $\frac{43}{44} = \frac{15.5}{15.6} = \frac{16.2}{16.4} = \frac{0.7}{0.6}$ $\frac{44}{46} = \frac{15.4}{15.4} = \frac{16.4}{16.4} = \frac{0.8}{1.0}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ dB}$ $\frac{CURRENT RECORD}{15.4} = \frac{PREVIOUS RECORD}{16.4} = \frac{PREVIOUS RECORD}{1.3.1 \text{ Ch. 71}}$ Worst Adj. Carrier Delta (dB): P [1.4] Ch. 16 P [1.3] Ch. 71 Max-Min Carrier Delta (dB): P [5.8] Ch. 60/16 P [5.3] Ch. 55/71 6 Month Delta: PASS [3.1 dB] Ch. 3	35				
38       14.9       15.1       0.2         39       14.4       14.6       0.2         40       14.7       15.8       1.1         42       15.4       15.4       0.0         43       15.4       16.0       0.6         44       15.5       16.2       0.7         45       15.6       16.4       0.8         46       15.4       16.4       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         MEVIOUS RECORD         P [13.1] Ch. 71         Worst Adj. Carrier Delta (dB):       P [5.8] Ch. 60/16       P [5.3] Ch.	36		15.3		
39       14.4       14.6       0.2         40       14.7       15.8       1.1         42       15.4       15.4       0.0         43       15.4       16.0       0.6         44       15.5       16.2       0.7         45       15.6       16.4       0.8         46       15.4       16.4       0.8         46       15.4       16.4       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         CURRENT RECORD         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ dB         CURRENT RECORD         P [13.2] Ch. 16       P [13.1] Ch. 71         Worst Adj. Carrier Delta (dB):       P [13.2] Ch. 16       P [13.1] Ch. 71         Max-Min Carrier Delta (dB):       P [5.8] Ch. 60/16       P [5.3] Ch. 55/71         6 Month Delta:       PASS [3.1 dB] Ch. 3       P [5.3] Ch. 55/71	37		15.2		
40       14.7       15.8       1.1         42       15.4       15.4       0.0         43       15.4       16.0       0.6         44       15.5       16.2       0.7         45       15.6       16.4       0.8         46       15.4       16.4       0.8         46       15.4       16.4       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ CURRENT RECORD         Worst Adj. Carrier (dBmv):       P [13.2] Ch. 16       P [13.1] Ch. 71         Worst Adj. Carrier Delta (dB):       P [5.8] Ch. 60/16       P [1.3] Ch. 71         Max-Min Carrier Delta (dB):       P [5.8] Ch. 60/16       P [5.3] Ch. 55/71         6 Month Delta:       PASS [3.1 dB] Ch. 3       P [5.3] Ch. 55/71	38				
42       15.4       15.4       0.0         43       15.4       16.0       0.6         44       15.5       16.2       0.7         45       15.6       16.4       0.8         46       15.4       16.4       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ MEEVIOUS RECORD P [13.2] Ch. 71         MASS [3.1 dB] Ch. 3	40		14.6	0.2	
43       15.4       16.0       0.6         44       15.5       16.2       0.7         45       15.6       16.4       0.8         46       15.4       16.4       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 dB$ CURRENT RECORD         P [13.2] Ch. 16       P [13.1] Ch. 71         Worst Adj. Carrier Delta (dB):       P [1.4] Ch. 16       P [1.3] Ch. 71         Max-Min Carrier Delta (dB):       P [5.8] Ch. 60/16       P [5.3] Ch. 55/71         6 Month Delta:       PASS       [3.1 dB] Ch. 3	42	15.4	15.4		
$44$ 15.5       16.2       0.7 $45$ 15.6       16.4       0.8 $46$ 15.4       16.4       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ dB}$ Lowest Visual Carrier (dBmv):         P       [13.2] Ch. 16       P         Worst Adj. Carrier Delta (dB):       P       [1.4] Ch. 16       P         Max-Min Carrier Delta (dB):       P       [5.8] Ch. 60/16       P       [1.3] Ch. 71         6 Month Delta:       PASS       [3.1 dB] Ch. 3       P       [5.3] Ch. 55/71	the second s	15.4	16.0	0.6	
46       15.4       16.4       1.0         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         Lowest Visual Carrier (dBmv):       P [13.2] Ch. 16       P REVIOUS RECORD         Worst Adj. Carrier Delta (dB):       P [1.4] Ch. 16       P [1.3] Ch. 71         Max-Min Carrier Delta (dB):       P [5.8] Ch. 60/16       P [5.3] Ch. 55/71         6 Month Delta:       PASS [3.1 dB] Ch. 3				0.7	
IO.4         IO.4         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 dB         CURRENT RECORD         DEVIOUS RECORD         Lowest Visual Carrier (dBmv):         P       [13.2] Ch. 16       P       [13.1] Ch. 71         Worst Adj. Carrier Delta (dB):       P       [1.4] Ch. 16       P       [1.3] Ch. 71         Max-Min Carrier Delta (dB):       P       [5.8] Ch. 60/16       P       [5.3] Ch. 55/71         6 Month Delta:       PASS       [3.1 dB] Ch. 3       P       [3.2] AB	contraction of the second second second second second second second				
CURRENT RECORD         PREVIOUS RECORD           Lowest Visual Carrier (dBmv):         P [13.2] Ch. 16         P [13.1] Ch. 71           Worst Adj. Carrier Delta (dB):         P [1.4] Ch. 16         P [1.3] Ch. 71           Max-Min Carrier Delta (dB):         P [5.8] Ch. 60/16         P [5.3] Ch. 55/71           6 Month Delta:         PASS         [3.1 dB] Ch. 3	÷	10.4	16.4	1.0	
CURRENT RECORD         PREVIOUS RECORD           Lowest Visual Carrier (dBmv):         P [13.2] Ch. 16         P [13.1] Ch. 71           Worst Adj. Carrier Delta (dB):         P [1.4] Ch. 16         P [1.3] Ch. 71           Max-Min Carrier Delta (dB):         P [5.8] Ch. 60/16         P [5.3] Ch. 55/71           6 Month Delta:         PASS         [3.1 dB] Ch. 3			and the second second second second second second second second second second second second second second second		
Lowest Visual Carrier (dBmv):       P [13.2] Ch. 16       P [13.1] Ch. 71         Worst Adj. Carrier Delta (dB):       P [1.4] Ch. 16       P [1.3] Ch. 71         Max-Min Carrier Delta (dB):       P [5.8] Ch. 60/16       P [5.3] Ch. 55/71         6 Month Delta:       PASS       [3.1 dB] Ch. 3	WORST CASE MEA	SUREMENT DATA - WITHIN R	ATED ACCURACY OF MEASU	JRING DEVICE ± .75 d	В
Lowest Visual Carrier (dBmv):       P [13.2] Ch. 16       P [13.1] Ch. 71         Worst Adj. Carrier Delta (dB):       P [1.4] Ch. 16       P [1.3] Ch. 71         Max-Min Carrier Delta (dB):       P [5.8] Ch. 60/16       P [5.3] Ch. 55/71         6 Month Delta:       PASS       [3.1 dB] Ch. 3		our services	DEGODE	······································	
Worst Adj. Carrier Delta (dB):       P [1.4] Ch. 16       P [1.3] Ch. 71         Max-Min Carrier Delta (dB):       P [5.8] Ch. 60/16       P [5.3] Ch. 55/71         6 Month Delta:       PASS [3.1 dB] Ch. 3	Lowest Viena	CUKRENT		US RECORD	
Max-Min Carrier Delta (dB): P [5.8] Ch. 60/16 P [5.3] Ch. 55/71 6 Month Delta: PASS [3.1 dB] Ch. 3 PASS	Worst Adj. C	arrier Delta (dB): $P = [13.2] C$		J Ch. 71	
6 Month Delta: PASS [3.1 dB] Ch. 3	Max-Min Car		· · · ·		
PASS			- 10.01		
			n a bha ann an 1979 a bhaig fa suid a sun ann an 1975 an 1977 a sta an ann an 1979 a bha ann ann an		
	PASS				
	able				

Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 01/22/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#6 RT 9 VFW Keeseville

CHANNEL	CURRENT (dBmv)	PREVIOUS (dBmv)	DELTA (dB)
47	15.7	16.4	0.7
49	15.7	16.5	0.8
50 51	17.1	16.9	0.2
51	<u>16.7</u> <u>17.1</u>	17.2	0.5 0.3
54	18.1	18.2	0.1
55	18.5	18.4	0.1
56	18.3	18.1	0.2
57	18.5	18.0	0.5
58	18.8	17.8	1.0
<u>59</u> 60	18.9 19.0	17.7	1.2
61	18.5	17.9	0.6
62	17.1	18.1	1.0
63	16.2	17.9	1.7
64	15.5	17.8	2.3
65	16.8	18.0	1.2
<u>66</u> 67	17.2	18.0	0.8
68	17.1	17.8	0.0
70	16.3	14.3	2.0
71	15.7	13.1	2.6
72	15.3	14.4	0.9
73 74	14.8	15.0	0.2
75	<u>15.1</u> 15.3	15.9	0.2
76	13.5	15.9	1.4
78	14.1	16.1	2.0
Lowest Visual Carr Worst Adj. Carrier Max-Min Carrier E	CURRENT F           ier (dBmv):         P         [13.2] Ch.           Delta (dB):         P         [1.4] Ch.	16 P [13.1] 6 P [1.3] C	<u>JS RECORD</u> Ch. 71 'h. 71
ASS			

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 1/22/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#6 RT 9 VFW Keeseville

CHANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)
2	14.3	-0.7	15.0
3	13.5	-0.1	13.6
4	13.3	4.4	8.9 14.4
6	14.4	1.1	14.0
95	15.0	I.1 ,	13.9
96	15.4	1.8	13.6
98	14.7	0.5	14.2
99	14.3	0.2	14.1
14	14.8	0.3	14.5
15	14.5	0.1	14.4
16	13.2	0.1	13.1
17	14.6	-0.1	14.7
18	14.4 15.0	0.8	13.6
20 21	15.0	0.8	<u>14.2</u> 14.3
21 22	13.0	1.5	14.5
7	14.9	0.6	13.5
8	15.2	-1.1	16.3
9	15.0	1.1	13.9
10	15.4	1.1	14.3
11	15.4	0.7	14.7
12	15.7	1.6	14.1
<u>13</u> 23	15.1	1.6	13.5
23	15.1 15.5	1.0	14.1 13.9
24	15.5	1.0	13.6
26	15.4	1.6	13.8
27	15.5	2.1	13.4
28	15.5	1.4	14.1
29	15.6	1.7	13.9
30	15.6	1.3	14.3
31	15.3	1.4	13.9
32	15.1	0.9	14.2
33 34	14.8	0.4	14.4 14.0
35	14.9	1.2	13.4
36	14.4	0.1	13.4
37	14.5	0.7	13.8
38	14.9	0.8	14.1
39	14.4	0.3	14.1
40	14.7	0.9	13.8
42	15.4	1.0	14.4
43	15.4	1.7	13.7
44 45	15.5	1.7	13.8
45	15.6	$- \frac{1.8}{1.8} \dots $	13.8
WORST CASE MEASU		D ACCURACY OF MEASU	13.6 RING DEVICE ±.75 dB
	Lowest Visual Carrier (dBm Worst Upper V/A Ratio (dB Worst Lower V/A Ratio (dB	): P [16.3] Ch. 8 ): P [8.9] Ch. 4	· · · · · · · · · · · · · · · · · · ·
	Worst Adj. Carrier Delta (dE Max-Min Carrier Delta (dB)		
ASS			
le			

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 1/22/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#6 RT 9 VFW Keeseville

CHANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)
47	15.7	1.8	13.9
49	15.7	2.0 1.5	13.7 15.6
50 51	17.1 16.7	3.1	13.6
51	10.7	3.5	13.6
54	18.1	4.5	13.6
55	18.5	4.7	13.8
56	18.3	4,2	14.1
57	18.5	5.0	13.5
58	18.8	5.2	13.6
59	18.9	5.0	13.9
60	19.0	5.2	13.8
61	18.5	3.3	15.2
62 63	17.1	2.6 1.8	14.5 14.4
64	15.5	2.3	13.2
65	16.8	3.7	13.2
66	17.2	3.3	13.9
67	17.1	3.0	14.1
68	17.1	3.1	14.0
70	16.3	2.0	14.3
71	15.7	1.6	14.1
72	15.3	1.2	14.1
73	14.8	0.5	14.3
75	15.3	0.7	13.9
76	14.5	0.1	14.4
78	14.1	0.6	13.5
WORST CASE ME/	SUREMENT DATA - WITHIN RA	(mv): P [13.2] Ch. 16	URING DEVICE ± .75 dB
PASS	Worst Upper V/A Ratio (d Worst Eower V/A Ratio (d Worst Adj. Carrier Delta ( Max-Min Carrier Delta (d	1B): P[8.9] Ch. 4 dB): P[1.4] Ch. 16	

# FCC Compliance 76.605(a) - (3), (7), (8), (9)(i), (9)(ii), (11)

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01/22/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#6 RT 9 VFW Keeseville

CH.	C/N -dBc	CSO -dBc	CTB -dBc	In-Ch (p-v)	Aural Diff kHz	Hum %
4	64.0	62.1	60.2	.60	+0.000	.7
14	49.0	58.9	57.3	.50	+0.000	.8
8	51.9	65.9	54.1	.20	+0.000	.9
9	55.7	63.3	59.0	1.40	+0.000	.9
36	55.1	66.7	60.5	1.30	+0.100	.9
39	55.8	63.0	54.8	1.20	+0.000	.9
44	48.9	63.2	54.1	1.60	+0.000	.9
49	46.4	64.1	54.8	1.20	+0.000	.7
54	58.6	68.6	56.7	1.60	+0.000	.7
66	50.1	56.6	54.5	1.80	+0.100	.8
67	54.6	62.5	56.5	1.90	+0.000	.8
116	53.0	64.6	62.5	.80	+0.000	.7

An asterisk indicates a failed measurement.

MEASUREMENT	MEASUREMENT DEVICE	CAL DATE	SERIAL NO.
CSO/CTB	AGILENT 8591C	07/16/03	4109A04509
Carrier to Noise	TRILITHIC BANDPASS	07/16/03	200102124
Hum Modulation	AGILENT 8591C	07/16/03	4109A04509
Aural Carrier Frequency	AGILENT 8591C	07/16/03	4109A04509
In-Channel Frequency Response	AGILENT 8591C	07/16/03	4109A04509

·····		Worst Case	Measurement Data	·······	· ··· · ·
Carrier to Noise:	(-46.4 dBc)	Pass	Hum Modulation:	(0.9 %)	Pass
Composite Triple Beat:	(-54.1 dBc)	Pass	Aural Frequency Difference	e: (0.1 kHz)	Pass
Composite Second Order:	(-56.6 dBc)	Pass	In-Ch Frequency Response:	(1.9 dB p-v)	Pass

Falcon Cable

PASS

Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 01/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #7 Dudliy road Westport

Technician: Bob Greer Equipment: 3010R Calibration Date: 07/2008

	Time: 13:47 Temp: 49.øF	Time: 19:47 Temp: 24.øF	Time: 01:47 Temp: 19.øF	Time: 07:47 Temp: 19.øF	
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)	RECORD 4 (dBmv)	DELTA (dB)
2	17.3	17.2	17.4	17.2	0.2
3	17.0	17.2	17.2	16.8	0.4
4	17.3	17.2	17.3	17.1	0.2
5	17.2	17.4	17.5	17.4	0.3
6	17.6	17.5	17.5	17.6	0.1
95	17.1	17.4	17.3	17.0	0.4
96	17.9	17.8	17.9	17.7	0.2
98	17.4	17.3	17.4	17.1	0.3
99	16.7	16.5	16.6	16.5	0.2
14	16.8	16.9	16.8	16.5	0.4
15	16.3	16.3	16.6	16.3	0.3
16	15.5	15.8	15.9	15.4	0.5
17	16.4	16.6	16.7	16.3	0.4
18	16.2	15.8	16.4	16.3	0.6
20	15.3	16.6	16.8	16.4	1.5
21	15.5	16.4	16.5	16.2	1.0
22 7	16.1	16.6	16.5	16.4	0.5 0.2
	16.6	16.7	16.7	16.5	
8 9	17.4	17.4	17.2	17.3	0.2
	17.1	17.2	17.4		$\frac{0.3}{0.2}$
10	17.2	17.2	17.3	17.1 17.6	0.2
12	17.8	17.9	17.8	17.0	0.2
13	17.8	17.0	18.0	17.6	1.0
23	17.5	14.8	17.7	17.0	2.9
24	17.7	14.0	17.6	16.6	1.1
25	17.8	17.5	17.0	15.6	2.2
26	18.0	17.8	15.2	16.7	2.8
27	17.9	18.1	17.0	17.7	1.1
28	18.2	18.2	18.0	17.9	0.3
29	18.4	18.4	18.5	18.5	0.1
30	18.1	17.8	17.9	18.1	0.3
31	17.8	18.3	18.3	18.0	0.5
32	18.0	18.3	18.3	18.2	0.3
33	17.6	17.9	17.9	17.8	0.3
34	18.1	18.3	18.4	18.1	0.3
35	17.6	17.9	17.9	17.9	0.3
36	17.5	17.8	17.9	17.9	0.4
37	17.9	18.1	18.1	17.9	0.2
38 39	18.4	18.7	18.5	18.4	0.3
40	18.0	18.0	18.4	18.1	0.4
40	17.8	18.2		18.2	
43	17.8	18.2	18.0	17.8	().4
44	18.0	18.0	18.0	18.3	$\frac{0.3}{0.1}$
45	18.0	18.3	18.0	18.2	0.1
46	17.5	18.5	17.9	17.8	0.3
	T CASE MEASUREMENT		· · · · · · · · · · · · · · · · · · ·		.75 dB
					···· · · · · · · ·
owest Visual Carrie /orst Adj. Carrier D		h. 20 · · P   14.8	B) Ch. 23 P		RECORD 4 P [15.4] Ch. 16 P [14.4] Ch. 16
lax-Min Carrier Del	ta (dB): P [3.3] Ch				P [1.4] Ch. 64 P [3.1] Ch. 29/16
Hour Delta: PAS	S [2.9 dB] Ch. 23	n fan skrie ster en skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie s Na fan skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie skrie sk			
PASS		·		<ul> <li>A CONTRACTOR OF A CONT A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACT</li></ul>	
····					
lcon Cable					•

Proof-It 3.0.8 - Ser.# P300A0545

\_\_\_\_\_

## Date: 01/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #7 Dudliy road Westport

np: 49.0F RD 1 (dBmv) B 17.6 17.1 17.9 17.0 17.2 17.5 16.7 17.8 18.0 17.3 18.5 18.6 18.1 18.0 17.7 16.6 16.8 18.0 17.7 16.6 16.8 18.0 17.3 18.5 18.6 16.7 16.6 16.7 16.6 16.7 16.6 16.7 16.6 16.7 16.7 16.6 16.7 16.6 16.7 16.7 16.6 16.7 16.6 16.7 16.6 16.7 16.7 16.6 16.7 16.6 16.7 16.6 16.7 16.6 16.7 16.6 16.7 16.6 16.7 16.6 16.7 16.6 16.2 16.4 16.7 16.4 17.7 17.8	Temp: 24.0F           RECORD 2 (dBmv)           17.7           17.4           18.2           17.8           17.9           17.9           17.9           17.9           17.9           17.1           17.0           17.2           16.9           16.2           17.3           17.5           17.1           18.5           18.6           18.0           17.8           17.0           17.1           18.5           18.6           18.0           17.0           17.0           17.0           17.0	Temp: 19.0F           RECORD 3 (dBmv)           17.8           17.3           18.2           17.6           17.4           17.4           17.4           17.1           17.1           17.1           17.1           17.2           18.5           18.4           17.2           18.5           18.4           17.9           17.6           16.6           17.9           17.6           16.5           17.0           17.1	Temp:         19.øF           RECORD 4 (dBmy)         17.7           17.7         17.2           17.9         17.6           17.3         17.5           17.6         17.3           17.5         17.6           17.2         16.9           17.0         17.1           17.1         16.9           16.9         16.9           16.9         16.9           16.9         16.9           16.9         16.9           16.9         16.9           16.9         16.9           16.9         16.9           16.9         16.9           16.7         16.7           17.0         17.1           16.7         16.7           16.7         16.6           16.8         17.1           16.6         16.6	DELTA (dB) 0.2 0.3 0.3 0.3 0.3 0.9 0.9 0.6 0.4 0.2 0.1 0.6 0.6 0.6 0.9 1.1 0.4 0.2 0.3 0.4 0.2 0.3 0.4 0.2 0.3 0.4 0.2 0.3 0.4 0.2 0.3 0.4 0.2 0.4 0.2 0.4 0.2 0.4 0.2 0.3 0.4 0.4 0.2 0.4 0.4 0.2 0.5 0.8 0.7 0.6 0.4 0.4 0.2 0.5 0.8 0.7 0.6 0.6 0.9 0.6 0.9 0.6 0.9 0.6 0.9 0.1 0.2 0.3 0.4 0.2 0.3 0.4 0.2 0.3 0.4 0.2 0.3 0.4 0.2 0.3 0.4 0.2 0.3 0.4 0.2 0.3 0.4 0.2 0.3 0.4 0.4 0.2 0.3 0.4 0.4 0.2 0.3 0.4 0.4 0.4 0.2 0.3 0.4 0.4 0.4 0.4 0.5 0.4 0.4 0.4 0.5 0.4 0.4 0.4 0.2 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
17.6         17.1         17.9         17.0         17.1         17.0         17.1         17.0         17.1         17.0         17.1         17.0         16.8         16.7         16.9         17.2         17.5         16.7         17.8         18.0         17.3         18.5         18.6         18.1         18.0         17.7         16.6         16.8         16.2         16.1         16.2         16.1         16.5	$     \begin{array}{r}       17.7 \\       17.4 \\       18.2 \\       17.8 \\       17.3 \\       17.9 \\       17.9 \\       17.9 \\       17.9 \\       17.9 \\       17.9 \\       17.9 \\       17.9 \\       17.9 \\       17.9 \\       17.9 \\       17.9 \\       17.9 \\       17.0 \\       16.2 \\       17.3 \\       17.2 \\       16.9 \\       16.2 \\       17.3 \\       17.5 \\       17.1 \\       18.5 \\       18.6 \\       18.0 \\       17.8 \\       17.0 \\       17.0 \\       16.7 \\       16.9 \\       17.2 \\       17.0 \\       16.7 \\       16.9 \\       17.2 \\       17.0 \\       10.0 \\       $	17.8         17.3         18.2         17.6         17.4         17.7         17.4         17.7         17.4         17.0         17.1         17.1         17.1         17.1         17.1         17.1         17.2         17.3         17.2         18.5         18.4         17.8         17.9         17.6         16.6         17.0         16.3         16.5         17.2	17.7         17.2         17.9         17.6         17.3         17.5         17.6         17.3         17.5         17.6         17.7         16.9         16.9         16.9         16.9         16.9         16.9         16.9         16.7         16.7         16.7         16.7         16.3         16.3         16.3         16.4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
17.1         17.9         17.0         17.0         17.0         17.0         16.8         16.7         16.8         16.7         16.8         16.7         17.5         16.7         17.5         16.7         17.8         18.0         17.3         18.5         18.6         18.1         18.0         17.7         16.6         16.8         16.2         16.1         16.5         16.4	17.4         18.2         17.8         17.3         17.9         17.9         17.9         17.4         17.9         17.4         17.9         17.4         17.0         17.2         16.9         16.2         17.3         17.5         17.1         18.5         18.6         18.0         17.8         17.0         17.0         16.7         16.9         17.2         16.9         17.0         16.7         16.9         17.2         17.0	17.3         18.2         17.6         17.4         17.8         17.7         17.4         17.7         17.4         17.7         17.4         17.7         17.4         17.7         17.4         17.0         17.1         16.9         16.4         17.2         18.5         18.4         17.8         17.9         17.6         16.6         17.0         16.3         16.5         17.2         17.0	17.2         17.9         17.6         17.3         17.5         17.6         17.2         16.9         17.1         17.1         16.1         16.9         17.1         17.1         16.1         16.9         16.9         16.9         16.9         16.9         16.9         16.9         16.9         16.7         16.7         16.3         16.3         16.3         16.4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
17.9         17.0         17.1         17.0         17.0         16.8         16.7         17.5         16.7         17.5         16.7         17.5         16.7         17.5         16.7         17.8         18.0         17.3         18.5         18.6         18.1         18.0         17.7         16.6         16.8         16.2         16.1         16.5         16.4	$\begin{array}{r} 18.2 \\ 17.8 \\ 17.3 \\ 17.9 \\ 17.9 \\ 17.9 \\ 17.9 \\ 17.4 \\ 17.1 \\ 17.0 \\ 17.2 \\ 16.9 \\ 16.2 \\ 17.3 \\ 17.5 \\ 17.1 \\ 18.5 \\ 18.6 \\ 18.0 \\ 17.8 \\ 17.0 \\ 17.0 \\ 16.7 \\ 16.9 \\ 17.2 \\ 17.0 \\ 10.0 \\ 10$	I8.2           17.6           17.4           17.8           17.7           17.4           17.0           17.1           17.1           16.9           16.4           17.2           18.5           18.4           17.8           17.2           18.5           18.4           17.8           17.2           18.5           18.4           17.8           17.9           17.6           16.6           17.0           16.3           16.5           17.2           17.0	17.9         17.6         17.3         17.5         17.6         17.5         17.6         17.2         16.9         17.1         16.1         16.9         16.1         16.9         16.1         16.9         16.9         16.9         16.9         16.9         16.9         16.9         16.9         16.7         16.7         16.7         16.3         16.8         17.1         16.6	$\begin{array}{c c} 0.3 \\ 0.8 \\ 0.3 \\ 0.9 \\ 0.9 \\ 0.6 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.4 \\ 0.5 \\ 0.8 \\ 0.7 \\ 0.6$
17.0         17.1         17.0         16.8         16.7         16.9         17.2         17.5         16.7         17.8         18.0         17.3         18.6         18.1         18.0         17.7         16.6         18.1         18.0         17.7         16.6         16.1         16.2         16.1         16.5	17.8         17.3         17.9         17.9         17.9         17.9         17.1         17.0         17.2         16.9         16.2         17.3         17.5         17.1         18.5         18.6         18.0         17.8         17.0         16.7         16.9         17.0         16.7         16.9         17.2         17.0	17.6           17.4           17.8           17.7           17.4           17.0           17.1           17.1           17.1           16.9           16.4           17.2           18.5           18.4           17.8           17.9           17.6           16.6           17.0           16.3           16.5           17.2	17.6         17.3         17.5         17.6         17.2         16.9         17.0         17.1         16.1         16.9         16.1         16.9         16.9         16.9         16.9         16.9         16.9         16.9         16.9         16.9         16.9         16.7         16.7         16.7         16.3         16.8         17.1         16.6	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
17.1         17.0         17.0         16.8         16.7         16.9         17.2         17.5         16.7         17.8         18.0         17.3         18.6         18.1         18.0         17.7         16.6         18.1         18.0         17.7         16.6         16.1         16.2         16.1         16.5         16.4	$\begin{array}{c} 17.3 \\ 17.9 \\ 17.9 \\ 17.9 \\ 17.4 \\ 17.1 \\ 17.0 \\ 17.2 \\ 16.9 \\ 16.2 \\ 17.3 \\ 17.5 \\ 17.1 \\ 18.5 \\ 18.6 \\ 18.0 \\ 18.0 \\ 17.8 \\ 17.0 \\ 17.0 \\ 17.0 \\ 16.7 \\ 16.9 \\ 17.2 \\ 17.0 \\ 10.0 \\ 10$	17.4         17.8         17.7         17.4         17.0         17.1         17.0         17.1         16.9         16.4         17.2         18.5         18.4         17.8         17.9         17.6         16.3         16.5         17.2	17.3         17.5         17.6         17.2         16.9         17.0         17.1         16.1         16.9         16.1         16.9         16.1         16.9         16.1         16.9         16.9         16.9         16.9         16.9         16.9         16.9         16.9         16.9         16.7         16.7         16.3         16.8         17.1         16.6	$ \begin{bmatrix} 0.3 \\ 0.9 \\ 0.9 \\ 0.6 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.9 \\ 1.1 \\ 0.4 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.4 \\ 0.3 \\ 0.5 \\ 0.8 \\ 0.7 \\ 0.6 \\ 0.6 \end{bmatrix} $
17.0         17.0         16.8         16.7         16.9         17.2         17.5         16.7         17.8         18.0         17.3         18.6         18.1         18.0         17.7         16.6         16.1         16.2         16.1         16.5         16.4	$     \begin{array}{r}       17.9 \\       17.9 \\       17.4 \\       17.1 \\       17.0 \\       17.2 \\       16.9 \\       16.2 \\       17.3 \\       17.5 \\       17.5 \\       17.5 \\       17.1 \\       18.5 \\       18.6 \\       18.0 \\       17.8 \\       17.0 \\       16.7 \\       16.7 \\       16.9 \\       17.2 \\       17.0 \\       17.0 \\       16.7 \\       16.9 \\       17.2 \\       17.0 \\       10.0 \\       $	17.8         17.7         17.4         17.0         17.1         17.1         17.1         17.1         17.1         17.1         16.9         16.4         17.2         18.5         18.4         17.8         17.9         17.6         16.6         17.0         16.3         16.5         17.2	17.5 17.6 17.2 16.9 17.0 17.1 17.1 16.1 16.9 16.9 16.9 16.9 18.3 17.7 17.9 17.6 16.7 16.7 16.7 16.3 16.8 17.1 16.8 17.1 16.6	$\begin{array}{c c} 0.9 \\ 0.9 \\ 0.6 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.6 \\ 0.6 \\ 0.9 \\ 1.1 \\ 0.4 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.4 \\ 0.1 \\ 0.5 \\ 0.8 \\ 0.7 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.9 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.5 \\ 0.8 \\ 0.7 \\ 0.6 \\ 0.6 \\ 0.6 \\ 0.9 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.1 \\ 0.1 \\ 0.2 \\ 0.2 \\ 0.1 \\ 0.2$
17.0         16.8         16.7         16.9         17.2         17.5         16.7         17.8         18.0         17.3         18.6         18.1         18.0         17.7         16.6         16.1         16.2         16.1         16.5         16.4	17.9 17.4 17.1 17.0 17.2 16.9 16.2 17.3 17.5 17.1 18.5 18.6 18.0 17.8 17.0 17.0 16.7 16.7 16.7 16.7 17.0 17.5 17.1 18.5 18.6 18.0 17.8 17.0 17.2 17.0 17.2 17.0 17.2 17.0 17.2 17.0 17.2 17.0 17.2 17.0 17.2 17.0 17.5 17.1 18.5 18.6 18.0 17.8 17.0 17.0 17.5 17.1 18.5 18.6 18.0 17.8 17.0 17.0 17.5 17.1 18.5 18.6 18.0 17.8 17.0 16.7 17.0 17.0 17.0 17.0 16.7 17.0 17.0 17.0 17.0 16.7 17.0	$\begin{array}{c c} & 17.7 \\ & 17.4 \\ \hline & 17.0 \\ \hline & 17.1 \\ \hline & 17.1 \\ \hline & 17.1 \\ \hline & 17.2 \\ \hline & 16.4 \\ \hline & 17.2 \\ \hline & 17.3 \\ \hline & 17.2 \\ \hline & 18.5 \\ \hline & 18.4 \\ \hline & 17.8 \\ \hline & 17.8 \\ \hline & 17.9 \\ \hline & 17.6 \\ \hline & 16.6 \\ \hline & 17.0 \\ \hline & 16.3 \\ \hline & 16.5 \\ \hline & 17.2 \\ \hline & 17.0 \\ \hline \end{array}$	17.6 17.2 16.9 17.0 17.1 17.1 16.1 16.9 16.9 16.9 16.9 18.3 17.7 17.9 17.6 16.7 16.7 16.7 16.7 16.3 16.8 17.1 16.6	$\begin{array}{c c} 0.9\\ 0.6\\ 0.4\\ 0.2\\ 0.1\\ 0.6\\ 0.6\\ 0.9\\ 1.1\\ 0.4\\ 0.2\\ 0.3\\ 0.4\\ 0.2\\ 0.3\\ 0.4\\ 0.1\\ 0.2\\ 0.3\\ 0.4\\ 0.1\\ 0.2\\ 0.3\\ 0.4\\ 0.1\\ 0.2\\ 0.3\\ 0.4\\ 0.1\\ 0.2\\ 0.4\\ 0.3\\ 0.5\\ 0.8\\ 0.7\\ 0.6\\ 0.6\\ 0.6\\ 0.6\\ 0.6\\ 0.6\\ 0.6\\ 0.6$
16.8         16.7         16.9         17.2         17.5         16.7         17.8         18.0         17.7         16.6         18.0         17.7         16.6         16.1         16.2         16.1         16.5         16.4	17.4         17.1         17.0         17.2         16.9         16.2         17.3         17.5         17.1         18.5         18.6         18.0         17.8         17.0         16.7         16.9         17.2         17.0	$\begin{array}{c c} & 17.4 \\ \hline & 17.0 \\ \hline & 17.1 \\ \hline & 17.1 \\ \hline & 17.1 \\ \hline & 16.9 \\ \hline & 16.4 \\ \hline & 17.2 \\ \hline & 17.3 \\ \hline & 17.2 \\ \hline & 18.5 \\ \hline & 18.5 \\ \hline & 18.4 \\ \hline & 17.8 \\ \hline & 17.9 \\ \hline & 17.6 \\ \hline & 16.6 \\ \hline & 17.0 \\ \hline & 16.3 \\ \hline & 16.5 \\ \hline & 17.2 \\ \hline & 17.0 \\ \hline \end{array}$	17.2           16.9           17.0           17.1           17.1           17.1           16.9           16.9           16.9           16.9           16.9           16.9           16.9           16.9           16.7           16.7           16.3           16.3           16.8           17.1           16.6	$\begin{array}{c c} 0.6 \\ 0.4 \\ 0.2 \\ 0.1 \\ 0.6 \\ 0.6 \\ 0.9 \\ 1.1 \\ 0.4 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.5 \\ 0.8 \\ 0.7 \\ 0.6 \\ 0.6 \\ \end{array}$
16.7         16.9         17.2         17.5         16.7         17.8         18.0         17.3         18.5         18.6         18.1         18.0         17.7         16.6         16.8         16.2         16.1         16.5         16.4	17.1 17.0 17.2 16.9 16.2 17.3 17.5 17.1 18.5 18.6 18.0 17.8 17.0 17.0 16.7 16.9 17.0 16.7 16.9 17.0 17.0 17.5 17.1 18.5 18.6 18.0 17.8 17.0 17.0 17.2 17.0 17.2 17.0 17.5 17.1 18.5 18.5 18.6 18.0 17.8 17.0	17.0         17.1         17.1         16.9         16.4         17.2         18.5         18.4         17.8         17.9         17.6         16.6         17.0         16.5         17.2	16.9           17.0           17.1           17.1           16.9           16.9           16.9           18.3           17.7           17.7           17.7           17.9           17.6           16.7           16.3           16.8           17.1           16.6	$\begin{array}{c c} 0.4 \\ 0.2 \\ 0.1 \\ 0.6 \\ 0.6 \\ 0.9 \\ 1.1 \\ 0.4 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.4 \\ 0.1 \\ 0.5 \\ 0.8 \\ 0.7 \\ 0.6 \\ 0.6 \\ \end{array}$
16.9         17.2         17.5         16.7         17.8         18.0         17.3         18.5         18.6         18.1         18.0         17.7         16.6         16.8         16.2         16.1         16.5         16.4	17.0         17.2         16.9         16.2         17.3         17.5         17.1         18.5         18.6         18.0         17.8         17.0         16.7         16.9         17.2         17.0	$\begin{array}{c c} & 17.1 \\ & 17.1 \\ & 16.9 \\ \hline & 16.4 \\ & 17.2 \\ & 17.3 \\ & 17.2 \\ \hline & 17.3 \\ & 17.2 \\ \hline & 18.5 \\ \hline & 18.4 \\ & 17.8 \\ \hline & 17.8 \\ \hline & 17.9 \\ \hline & 17.6 \\ \hline & 16.6 \\ \hline & 17.0 \\ \hline & 16.3 \\ \hline & 16.5 \\ \hline & 17.2 \\ \hline & 17.0 \\ \hline \end{array}$	17.0 17.1 17.1 16.1 16.9 16.9 16.9 18.3 17.7 17.9 17.6 16.7 16.7 16.7 16.3 16.8 17.1 16.6	$\begin{array}{c c} 0.2 \\ 0.1 \\ 0.6 \\ 0.6 \\ 0.9 \\ 1.1 \\ 0.4 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.4 \\ 0.1 \\ 0.5 \\ 0.8 \\ 0.7 \\ 0.6 \\ 0.6 \\ \end{array}$
17.2         17.5         16.7         17.8         18.0         17.3         18.5         18.6         18.1         18.0         17.7         16.6         16.8         16.2         16.1         16.5         16.4	17.2 16.9 16.2 17.3 17.5 17.1 18.5 18.6 18.0 17.8 17.0 17.0 16.7 16.9 17.2 17.0	$\begin{array}{c c} 17.1 \\ 16.9 \\ 16.4 \\ 17.2 \\ 17.3 \\ 17.2 \\ 18.5 \\ 18.4 \\ 17.8 \\ 17.9 \\ 17.6 \\ 16.6 \\ 17.0 \\ 16.3 \\ 16.5 \\ 17.2 \\ 17.0 \\ 17.0 \\ \end{array}$	17.1 17.1 16.1 16.9 16.9 16.9 18.3 17.7 17.9 17.6 16.7 16.7 16.7 16.3 16.8 17.1 16.6	$\begin{array}{c c} 0.1 \\ \hline 0.6 \\ \hline 0.9 \\ \hline 1.1 \\ \hline 0.4 \\ \hline 0.2 \\ \hline 0.3 \\ \hline 0.4 \\ \hline 0.1 \\ \hline 0.2 \\ \hline 0.4 \\ \hline 0.1 \\ \hline 0.2 \\ \hline 0.4 \\ \hline 0.3 \\ \hline 0.5 \\ \hline 0.8 \\ \hline 0.7 \\ \hline 0.6 \\ \hline \end{array}$
17.5         16.7         17.8         18.0         17.3         18.5         18.6         18.1         18.0         17.7         16.6         16.8         16.2         16.1         16.5         16.4	16.9           17.3           17.5           17.1           18.5           18.0           17.8           17.0           16.7           16.9           17.0           17.0           17.0	16.9           16.4           17.2           17.3           17.2           18.5           18.4           17.8           17.9           17.6           16.6           17.0           16.3           16.5           17.2	17.1 16.1 16.9 16.9 16.9 18.3 17.7 17.9 17.6 16.7 16.7 16.7 16.3 16.8 17.1 16.6	$\begin{array}{c c} 0.6\\ \hline 0.6\\ \hline 0.9\\ \hline 1.1\\ \hline 0.4\\ \hline 0.2\\ \hline 0.3\\ \hline 0.4\\ \hline 0.1\\ \hline 0.2\\ \hline 0.3\\ \hline 0.4\\ \hline 0.1\\ \hline 0.2\\ \hline 0.4\\ \hline 0.3\\ \hline 0.5\\ \hline 0.8\\ \hline 0.7\\ \hline 0.6\\ \hline \end{array}$
16.7         17.8         18.0         17.3         18.5         18.6         18.1         18.0         17.7         16.6         16.8         16.2         16.1         16.5         16.4	16.2         17.3         17.5         17.1         18.5         18.6         18.0         17.8         17.0         16.7         16.9         17.2         17.0	17.2           17.3           17.2           18.5           18.4           17.8           17.9           17.6           16.6           17.0           16.3           16.5           17.2           17.0	16.1           16.9           16.9           16.9           18.3           17.7           17.6           16.7           16.7           16.3           16.8           17.1           16.6	$\begin{array}{c c} 0.6 \\ \hline 0.9 \\ \hline 1.1 \\ 0.4 \\ \hline 0.2 \\ \hline 0.3 \\ 0.4 \\ \hline 0.1 \\ 0.2 \\ \hline 0.4 \\ 0.1 \\ \hline 0.2 \\ \hline 0.4 \\ \hline 0.3 \\ \hline 0.5 \\ \hline 0.8 \\ \hline 0.7 \\ \hline 0.6 \\ \hline \end{array}$
17.8       18.0       17.3       18.5       18.6       18.1       18.0       17.7       16.6       16.2       16.1       16.5       16.4	17.3         17.5         17.1         18.5         18.6         18.0         17.8         17.0         16.7         16.9         17.2         17.0	17.2           17.3           17.2           18.5           18.4           17.8           17.9           17.6           16.6           17.0           16.3           16.5           17.2           17.0	16.9           16.9           16.9           18.3           17.7           17.9           17.6           16.7           16.3           16.8           17.1           16.6	$\begin{array}{c c} 0.9 \\ \hline 1.1 \\ 0.4 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.4 \\ 0.1 \\ 0.2 \\ 0.4 \\ 0.3 \\ 0.5 \\ 0.8 \\ 0.7 \\ 0.6 \\ \hline \end{array}$
18.0       17.3       18.5       18.6       18.1       18.0       17.7       16.6       16.8       16.2       16.1       16.5       16.4	17.5 17.1 18.5 18.6 18.0 17.8 17.0 17.0 16.7 16.9 17.2 17.0	17.3           17.2           18.5           18.4           17.8           17.9           17.6           16.6           17.0           16.5           17.2           17.3	16.9           16.9           18.3           17.7           17.9           17.6           16.7           16.3           16.8           17.1           16.6	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
18.5       18.6       18.1       18.0       17.7       16.6       16.2       16.1       16.5       16.4	17.1           18.5           18.6           18.0           17.8           17.0           16.7           16.9           17.0           17.2           17.0	$     \begin{array}{r} 17.2 \\             18.5 \\             18.4 \\             17.8 \\             17.9 \\             17.6 \\             16.6 \\             17.0 \\             16.3 \\             16.5 \\             17.2 \\             17.0 \\             10.5 \\             10.5 \\             10.5 \\             10.5 \\             17.0 \\             10.5 \\             17.0 \\             10.5 \\             10.5 \\             10.5 \\             10.5 \\             10.5 \\             17.0 \\             10.5 \\             1$	18.3           18.3           17.7           17.9           17.6           16.7           16.3           16.3           16.8           17.1           16.6	$\begin{array}{c c} 0.4 \\ 0.2 \\ \hline 0.3 \\ 0.4 \\ 0.1 \\ \hline 0.2 \\ 0.4 \\ \hline 0.3 \\ 0.5 \\ \hline 0.8 \\ \hline 0.7 \\ \hline 0.6 \\ \end{array}$
18.5       18.6       18.1       18.0       17.7       16.6       16.2       16.1       16.5       16.4	18.5           18.6           18.0           17.8           17.0           16.7           16.9           17.2           17.0	18.5           18.4           17.8           17.9           17.6           16.6           17.0           16.3           16.5           17.2           17.0	18.3           18.3           17.7           17.9           17.6           16.7           16.3           16.3           16.8           17.1           16.6	$\begin{array}{c c} 0.2 \\ \hline 0.3 \\ \hline 0.4 \\ \hline 0.1 \\ \hline 0.2 \\ \hline 0.4 \\ \hline 0.3 \\ \hline 0.5 \\ \hline 0.8 \\ \hline 0.7 \\ \hline 0.6 \\ \end{array}$
18.6         18.1         18.0         17.7         16.6         16.8         16.2         16.1         16.5         16.4	18.6           18.0           17.8           17.0           17.0           16.7           16.9           17.2           17.0	$     \begin{array}{r}             18.4 \\             17.8 \\             17.9 \\             17.6 \\             16.6 \\             17.0 \\             16.3 \\             16.5 \\             17.2 \\             17.0 \\             10.5 \\  $	18.3           17.7           17.9           17.6           16.7           16.3           16.8           17.1           16.6	0.3 0.4 0.1 0.2 0.4 0.3 0.5 0.5 0.8 0.7 0.6
18.0       17.7       16.6       16.8       16.2       16.1       16.5       16.4	18.0           17.8           17.0           17.0           16.7           16.9           17.2           17.0	17.9 17.6 16.6 17.0 16.3 16.5 17.2 17.0	17.7 17.9 17.6 16.7 16.7 16.3 16.8 17.1 16.6	0.4 0.1 0.2 0.4 0.3 0.5 0.5 0.8 0.7 0.6
17.7 16.6 16.8 16.2 16.1 16.5 16.4	18.0           17.8           17.0           17.0           16.7           16.9           17.2           17.0	17.6 16.6 17.0 16.3 16.5 17.2 17.0	17.6 16.7 16.7 16.3 16.8 17.1 16.6	0.2 0.4 0.3 0.5 0.8 0.7 0.6
16.6         16.8           16.2         16.1           16.5         16.4	17.0 17.0 16.7 16.9 17.2 17.0	16.6           17.0           16.3           16.5           17.2           17.0	16.7 16.7 16.3 16.8 17.1 16.6	0.4 0.3 0.5 0.8 0.7 0.6
16.8           16.2           16.1           16.5           16.4	17.0 16.7 16.9 17.2 17.0	17.0 16.3 16.5 17.2 17.0	16.7 16.3 16.8 17.1 16.6	0.3 0.5 0.8 0.7 0.6
16.2           16.1           16.5           16.4	16.7 16.9 17.2 17.0	16.3 16.5 17.2 17.0	16.3 16.8 17.1 16.6	0.5 0.8 0.7 0.6
16.1 16.5 16.4	16.9 17.2 17.0	16.5 17.2 17.0	16.8 17.1 16.6	0.8 0.7 0.6
16.5 16.4	17.2 17.0	17.2 17.0	17.1	0.7
16.4	17.0	17.0	16.6	0.6
				· · · · · · · · · · · · · · · · · · ·
16.7		17.0	16.6	0.4
				· · · · · · · · · · · · · · · · · · ·
ASUREMENT DA <u>RECORD 1</u>				.75 dB RECORD 4
P [1.2] Ch. 64	0 P [14.8 P [2.2]	Ch. 23         P [1]           Ch. 13         P [1]	15.2] Ch. 26 1.8] Ch. 25	P [15:4] Ch. 16 P [1.4] Ch. 64 P [3.1] Ch. 29/16
	RECORD 1 P [15.3] Ch. 2 P [1.2] Ch. 64 P [3.3] Ch. 66	RECORD I         RECOF           P [15.3] Ch. 20         P [14.8]           P [1.2] Ch. 64         P [2.2]           P [3.3] Ch. 66/20         P [3.9]	RECORD I         RECORD 2         REC           P [15.3] Ch. 20         P [14.8] Ch. 23         P [           P [1.2] Ch. 64         P [2.2] Ch. 13         P [           P [3.3] Ch. 66/20         P [3.9] Ch. 38/23         P [	P       [15.3] Ch. 20       P       [14.8] Ch. 23       P       [15.2] Ch. 26         P       [1.2] Ch. 64       P       [2.2] Ch. 13       P       [1.8] Ch. 25         P       [3.3] Ch. 66/20       P       [3.9] Ch. 38/23       P       [3.3] Ch. 29/26

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #7 Dudley Rd Westport

CHANNEL	CURRENT (dBmv)	PREVIOUS (dBmv)	DELTA (dB)
2 3	17.3	16.9 17.6	0.4
4	17.3	17.6	0.3
5	17.2	18.1	0,9
6	17.6	17.5	0.1
95	17.1	17.1	0.0
<u>96</u> 98	17.9 17.4	17.4 16.1	0.5
98	17.4	16.6	0.1
14	16.8	16.8	0.0
15	16.3	16.5	0.2
16	15.5	16.3	0.8
[7	16.4 16.2	16.6 16.4	0.2 0.2
18 20	16.2	16.4	1.1
20	15.5	16.2	0.7
22	16.1	16.2	0.1
7	16.6	17.2	0.6
8	17.4	16.9	0.5
9 10	17.1 17.2	16.2 17.0	0.9 0.2
10	17.8	17.0	0.2
12	18.3	17.3	1.0
13	17.8	17.8	0.0
23	17.5	17.8	0.3
24 25	17.7 17.8	17.8	0.1
26	17.8	17.5	0.2
27	17.9	18.3	0.4
28	18.2	18.2	0.0
29	18.4	18.9	0.5
30	18.1	17.9 18.2	0.2
32	17.8	18.1	0.1
33	17.6	18.5	0.9
34	18.1	17.8	0.3
35	17.6	17.7	0.1
<u> </u>	17.5 17.9	18.5 17.9	1.0
38	18.4	17.5	$\frac{0.0}{0.2}$
39	18.0	18.5	0.5
40	18.2	18.2	0.0
42	17.8 18.2	18.1	0.3
43	18.2	18.3 17.8	$\frac{0.1}{0.2}$
45	18.0	18.3	0.2
46	17.5	18.3	0.8
WORST CASE MEASUR	EMENT DATA - WITHIN RA	TED ACCURACY OF MEASU	RING DEVICE ± .75 dB
Lowest Visual Ca	rrier (dBmv): P [15.3] Ch.		US RECORD
Worst Adj. Carrie			
Max-Min Carrier			Th. 29/58
	PASS [1.9 dB] Ch. 74	· · · · ·	
ASS			
ole			

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #7 Dudley Rd Westport

Technician: Bob Greer Equipment: 3010R Calibration Date: 07/2008

CHANNEL	CURRENT (dBmv)	PREVIOUS (dBmv)	DELTA (dB)
47	17.6	17.5	0.1
49	17.1	17.9 18.5	0.8
50	17.0	18.5	0.0
51	17.0	17.3	0.2
54	17.0	16.8	0.2
55	17.0	16.6	(),4
56	16.8	16.9	0.1
57	16.7	16.5	0.2
58	16.9	15.8	1.1
59 60	17.2	16.8	0.4
61	16.7	16.3	0.4
62	17.8	17.6	0.2
63	18.0	18.1	0.1
64	17.3	18.0	0.7
65	18.5	17.9	0.6
66	18.6	18.8	0.2
67	18.1	18.5	0.4
68 70	18.0	18.5	0.5
70	17.7	18.1	1.5
71	16.8	17.4	0.6
73	16.2	16.8	0.6
74	16.1	18.0	1.9
75	16.5	17.2	0.7
76	16.4	17.2	0.8
		· · · · · · · · · · · · · · · · · · ·	: : :
WORST CASE MEA	SUREMENT DATA - WITHIN RA	TED ACCURACY OF MEASU	RING DEVICE ± .75 dB
Worst Adj. C Max-Min Car	CURRENT           I Carrier (dBmv):         P [15.3] Ch.           arrier Delta (dB):         P [1.2] Ch.           rier Delta (dB):         P [3.3] Ch.           a:         PASS [1.9 dB] Ch. 74	. 20 P [15.8] 64 P [1.5] C	Ch. 50
	a. 1700 [1.7 UB] UN, [4		
ASS			
ple			·.

Proof-It 3.0.8 - Ser.# P300A0545

\_\_\_\_\_

## Date: 01/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#7 Dudly Road Westport

.....

CHANNEL	VIDEO (dBmv)	AUDIQ (dBmv)	RATIO (dB)
2	20.6	4.3	16.3
3	18.9 20.1	5.4	13.5 14.8
45	19.8	4.6	14.8
6	20.0	5.5	13.2
95	18.7	4.6	14.1
96	20.1	6.0	14.1
98	19.4	5.7	13.7
99	19.5	5.2	14.3
14	19.6	5.5	14.1
15	19.9	4.9	15.0
16	19.1	5.1	14.0
17	20.3	4.7	15.6
18	19.6	6.1 6.6	13.5
20 21	20.7 20.7	6.3	14.1
	20.7	6.9	14.0
	20.5	6.2	14.0
7 8	20.0	4.5	17.0
9	21.1	6.9	14.2
10	21.4	7.0	[4,4
11	21.2	6.7	14.5
12	21.8	7.3	14.5
13	20.8	6.5	14.3
23	20.7	6.3	14.4
24	21.4 22.2	8.1	13.3
25 26	22.2 21.7	7.5	14.5
27	21.7	7.9	13.8
	21.7	7.5	14.2
29	21.9	7.3	14.6
30	21.7	7.6	14.1
31	21.4	7.3	14.1
32	21.4	7.0	14.4
33	21.0	6.8	14.2
34	21.6	7.5	14.1
35 36	21.5 21.7	7.4	14.1
37	21.7	7.8	14.6
38	22.2	8.0	14.1
39	21.8	6.9	14.9
4()	21.6	7.1	14.5
42	21.1	6.8	14.3
43	21.4	7.0	[4.4
44	21.1	7.3	13.8
45	21.4	7.1	14.3
46	21.6	7.3	14.3
WORST CASE MEASU	REMENT DATA • WITHIN RATED /	CCURACY OF MEASUR	ING DEVICE ± .75 d
	Lowest Visual Carrier (dBmv):	P [18.7] Ch. 95	· · · · ·
	Worst Upper V/A Ratio (dB):	P [17.0] Ch. 8	
	Worst Lower V/A Ratio (dB):	P [12.9] Ch. 61	· *
	Worst Adj. Carrier Delta (dB):	P [1.7] Ch. 2	
	Max-Min Carrier Delta (dB):	P [7.5] Ch. 68/95	
ASS			
le			

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#7 Dudly Road Westport

CHANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)
47	21.6	7.3	14.3
49	21.3	7.0	14.3
50	22.3	6.4	15.9
51 52	21.6 22.1	7.7 7.8	13.9
54	23.2	8.7	14.3 14.5
55	22.5	9.3	13.2
56	22.8	8.4	14.4
57	22.5	9.3	13.2
58 59	23.6	9.4	14.2
60	23.2 24.2	<u>9.6</u> 10.2	13.6
61	23.6	10.2	14.0 12.9
62	24.9	10.7	12.9
63	24.7	11.3	13.4
64	25.0	10.9	14.1
65	25.9	11.9	14.0
66	26.0	11.8	14.2
67 68	25.5	11.7	13.8
70	26.0	11.6	<u>14.6</u> 14.8
71	25.0	11.2	14.8
72	25.7	10.3	15.4
73	24.3	10.6	13.7
74 75	24.7	10.2	14.5
75	<u>24.1</u> 24.3	10.3	<u>13.8</u> 15.1
78	24.0	9.2	13.1
WORST CASE MEASUR	EMENT DATA - WITHIN RAT		RING DEVICE ± .75 dB
PASS	Worst Upper V/A Ratio (d Worst Lower V/A Ratio (d Worst Adj. Carrier Delta (d Max-Min Carrier Delta (d	B): P [17.0] Ch. 8 B): P [12.9] Ch. 61 dB): P [1.7] Ch. 2	
able			

# FCC Compliance 76.605(a) - (3), (7), (8), (9)(i), (9)(ii), (11) *Proof-It 3.0.8 - Ser.# P300A0545*

#### Date: 01/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#7 Dudley Rd Westport

#### Technician: Bob Greer

CH.	C/N -dBc	CSO -dBc	CTB -dBc	In-Ch (p-v)	Aural Diff kHz	Hum %
4	47.9	67.4	61.0	.70	+0.000	.8
14	48.1	62.0	57.2	1,00	+0.000	.9
8	48.4	66.4	55.1	.30	-0.100	.8
9	48.5	67.4	57.4	1.10	+0.000	.8
36	48.5	68.4	57.4	1.50	+0.000	.7
39	47.8	63.5	58.2	.90	+0.000	.8
44	47.0	68.1	54.5	1.20	+0.000	.8
49	48.2	71.3	54.5	1.50	+0.000	.8
54	49.2	59.8	51.9	1.60	+0.100	.7
66	49.8	67.1	56.1	1.80	+0.000	.7
67	48.2	58.4	52.9	.90	+0.000	.8
116	48.0	54.1	51.2	.90	-0.100	.7

An asterisk indicates a failed measurement.

MEASUREMENT	MEASUREMENT DEVICE	CAL DATE	SERIAL NO.
CSO/CTB	AGILENT 8591C	07/16/03	4109A04509
Carrier to Noise	TRILITHIC BANDPASS	07/16/03	200102124
Hum Modulation	AGILENT 8591C	07/16/03	4109A04509
Aural Carrier Frequency	AGILENT 8591C	07/16/03	4109A04509
In-Channel Frequency Response	AGILENT 8591C	07/16/03	4109A04509

· · · · · · · · · · · · · · · · · · ·		Worst Case N	1easurement Data		
Carrier to Noise:	(-47 dBc)	Pass	Hum Modulation:	(0.9 %)	Pass
Composite Triple Beat:	(-51.2 dBe)	Pass	Aural Frequency Difference:	(0.1 kHz)	Pass
Composite Second Order:	(-54.1 dBc)	Pass	In-Ch Frequency Response:	(1.8 dB p-v)	Pass

. .

	PASS
ł,	

. . .

Falcon Cable

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 1/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #8 1042 Bartlet Jay

	Time: 11:06	Time: 17:06	Time: 23:06	Time: 05:06	
	Temp: 52.øF	Temp: 29.øF	Temp: 24.øF	Temp: 23.øF	
CHANNEL	RECORD 1 (dBmv)	RECORD 2 (dBmv)	RECORD 3 (dBmv)	RECORD 4 (dBmv)	DELTA (dB)
2	20.6	20.5	20.7	20.5	0.2
3	18.9	20.2	20.1	20.0	1.3
4	20.1	20.5	20.4	20.6	0.5
5	19.8	19.8	20.1	19.8	0.3
6	20.0	20.2	20.1	20.0	0.2
95	18.7	19.2	19.1	18.3	0.9
96	20.1	20.4	20.3	20.5	Ö.4
98	19.4	19.8	19.8	19.8	0.4
99	19.5	20.0	19.6	19.6	0.5
14	19.6	20.3	20.1	20.1	0.7
15	19.9	20.2	20.2	20.0	0.3
16	19.1	20.1	19.8	19.9	1.0
17 18	20.3	20.6	20.6	20.6	0.3
20	20.7	20.2	20.4 21.1	20.4 21.0	0.8
20	20.7	21.0	21.1	21.0	0.4
	20.7	21.0	21.1	21.1	0.4
22 7	20.9	21.0	20.8	20.5	0.1
8	20.0	21.0	21.1	20.3	0.5
9	21.5	21.3	21.3	21.2	0.3
10	21.4	21.1	21.3	21.4	0.3
11	21.2	21.3	21.2	21.2	0.1
12	21.8	21.7	21.6	21.6	0.2
13	20.8	21.1	21.0	21.1	0.3
23	20.7	21.0	21.1	21.1	().4
24	21.4	22.2	22.1	22.3	0.9
25	22.2	21.8	22.0	21.8	().4
26	21.7	21.8	21.8	21.6	0.2
27	21.7	21.8	21.7	21.8	0.1
28	21.7	22.0	21.9	21.9	0.3
29	21.9	22.1	22.0	21.8	0.3
30	21.7	21.9	21.7	21.5	().4
31 32	21.4	21.6	21.6	21.7	0.3
33	21.4 21.0	<u>21.6</u> 21.4	21.6	21.5 21.3	0.2
34	21.0	21.4	21.8	21.3	0.6
35	21.5	21.8	21.8	21.5	0.3
36	21.7	22.1	21.8	22.1	0.5
37	21.9	22.2	22.1	22.4	0.4
38	22.2	22.4	22.5	22.3	0.3
39	21.8	21.9	21.9	21.7	
40	21.6	22.0	21.8	21.9	0.2
42	21.1	21.4	21.4	21.9	0.3
43	21.4	21.8	21.8	21.8	0.5
44	21.1	21.7	21.5	21.7	0.4
45	21.4	22.0	22.0	21.9	0.6
46	21.6	22.2	22.0	22.0	0.6
					·····
WORS	Г CASE MEASUREMENT	DATA - WITHIN RAT	ED ACCURACY OF M	EASURING DEVICE	= .75 dB
	RECORD		<u>RD 2</u> <u>RE</u>	<u>CORD 3</u>	RECORD 4
west Visual Carrie				19.1   Ch. 95	P [18.3] Ch. 95
rst Adj. Carrier D	· · ·		,	1.3] Ch. 49	P [2.2] Ch. 95
x-Min Carrier Del	ta (dB): $P$ [7.5] Ch.	68/95 P [7.3]	Ch. 66/95 P [	7.2] Ch. 65/95	P [8.2] Ch. 66/95
Hour Delta: PAS	S [1.3 dB] Ch. 3				
······································	بورم ارتباع ارتباع ارتباع ارتباع المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد ا				
PASS					
con Cable					

Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 1/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP #8 1042 Bartlet Jay

CHANNEL         R           47         49           50         51           52         54           55         56           57         58           59         60           61         62           63         64           65         66           67         68           70         71           72         73           74         75           76         78	Time: 11:06 Temp: 52.0F ECORD 1 (dBmv) 21.6 21.3 22.3 21.6 22.1 23.2 22.5 22.8 22.5 23.6 23.2 24.2 23.6 24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.0 25.5 26.2 26.0 25.7 24.3 24.7	Time: 17:06 Temp: 29.0F RECORD 2 (dBmv) 21.9 22.1 22.8 22.7 22.4 23.6 23.6 23.6 23.1 23.3 23.8 24.0 24.5 24.3 25.1 25.6 25.2 26.3 26.5 26.2 25.6 25.6 25.6 25.6 25.6 25.6	Time: 23:06 Temp: 24.4F RECORD 3 (dBmv) 22.1 21.5 22.8 22.5 23.5 23.5 23.5 23.1 23.3 23.7 24.0 24.3 24.1 25.0 25.4 25.2 26.3 26.3 26.1 25.8 25.3	Time:         05:06           Temp:         23.0F           RECORD 4 (dBmv)         22.0           21.9         22.8           22.4         23.6           23.4         23.6           23.4         23.7           23.8         24.2           23.7         23.8           24.2         23.7           25.2         25.3           25.0         26.3           26.5         25.9           26.1         25.9	DELTA (dB) 0.5 0.8 0.5 1.1 0.4 0.4 0.4 1.1 0.3 0.9 0.2 0.8 0.3 0.7 0.3 0.9 0.2 0.8 0.3 0.7 0.3 0.9 0.2 0.4 0.5 0.7 0.3 0.9 0.2 0.4 0.5 0.7 0.3 0.9 0.2 0.5 0.5 0.7 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
47         49         50         51         52         54         55         56         57         58         59         60         61         62         63         64         65         66         67         68         70         71         72         73         74         75	ECORD 1 (dBmv) 21.6 21.3 22.3 21.6 22.1 23.2 22.5 22.8 22.5 23.6 23.2 24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.2 26.0 25.7 24.3	$\begin{array}{r} 21.9\\ 22.1\\ 22.8\\ 22.7\\ 22.4\\ 23.6\\ 23.6\\ 23.6\\ 23.1\\ 23.3\\ 23.8\\ 24.0\\ 24.5\\ 24.3\\ 25.1\\ 25.6\\ 25.2\\ 26.3\\ 26.5\\ 26.2\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.3\\ \end{array}$	22.1           21.5           22.8           22.5           23.5           23.1           23.3           23.7           24.0           24.1           25.2           26.1           26.1           26.1           25.8	RECORD 4 (dBmv)           22.0           21.9           22.8           22.4           23.6           23.4           23.4           23.4           23.7           23.8           24.2           23.7           25.2           25.3           25.0           26.3           25.9           26.1           25.9	$\begin{array}{c} 0.5\\ \hline 0.8\\ \hline 0.8\\ \hline 0.5\\ \hline 1.1\\ \hline 0.4\\ \hline 0.4\\ \hline 1.1\\ \hline 0.3\\ \hline 0.9\\ \hline 0.2\\ \hline 0.8\\ \hline 0.3\\ \hline 0.7\\ \hline 0.3\\ \hline 0.9\\ \hline 0.2\\ \hline 0.4\\ \hline 0.5\\ \hline 0.7\\ \hline 0.6\\ \end{array}$
49           50           51           52           54           55           56           57           58           59           60           61           62           63           64           65           66           67           68           70           71           72           73           74           75	21.3 22.3 21.6 22.1 23.2 22.5 22.8 22.5 23.6 23.2 24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.0 25.5 26.2 26.0 25.0 25.7 24.3	$\begin{array}{r} 22.1 \\ 22.8 \\ 22.7 \\ 22.4 \\ 23.6 \\ 23.6 \\ 23.1 \\ 23.3 \\ 23.8 \\ 24.0 \\ 24.5 \\ 24.3 \\ 25.1 \\ 25.6 \\ 25.2 \\ 26.3 \\ 26.5 \\ 26.2 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.3 \\ \end{array}$	21.5 22.8 22.5 23.5 23.5 23.1 23.3 23.7 24.0 24.3 24.1 25.0 25.4 25.2 26.3 26.3 26.1 25.8	21.9 22.8 22.4 23.6 23.4 23.0 23.4 23.7 23.8 24.2 23.7 25.2 25.3 25.0 26.3 26.5 25.9 26.1 25.9	$\begin{array}{c c} 0.8\\ \hline 0.5\\ \hline 1.1\\ 0.4\\ \hline 0.4\\ \hline 0.4\\ \hline 0.4\\ \hline 0.3\\ \hline 0.3\\ \hline 0.9\\ \hline 0.2\\ \hline 0.8\\ \hline 0.3\\ \hline 0.7\\ \hline 0.3\\ \hline 0.7\\ \hline 0.3\\ \hline 0.9\\ \hline 0.2\\ \hline 0.4\\ \hline 0.5\\ \hline 0.7\\ \hline 0.6\\ \end{array}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	22.3 21.6 22.1 23.2 22.5 22.8 22.5 23.6 23.2 24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.0 25.0 25.7 24.3	$\begin{array}{r} 22.8 \\ 22.7 \\ 22.4 \\ 23.6 \\ 23.6 \\ 23.1 \\ 23.3 \\ 23.8 \\ 24.0 \\ 24.5 \\ 24.3 \\ 25.1 \\ 25.6 \\ 25.2 \\ 26.3 \\ 26.5 \\ 26.2 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.3 \\ \end{array}$	22.8 22.5 22.5 23.5 23.1 23.3 23.7 24.0 24.3 24.1 25.0 25.4 25.2 26.3 26.3 26.1 26.1 25.8	22.8 22.4 22.4 23.6 23.4 23.0 23.4 23.7 23.8 24.2 23.7 25.2 25.3 25.0 26.3 26.5 25.9 26.1 25.9	$\begin{array}{c} 0.5 \\ \hline 1.1 \\ 0.4 \\ \hline 0.4 \\ \hline 1.1 \\ 0.3 \\ 0.9 \\ \hline 0.2 \\ 0.8 \\ \hline 0.3 \\ \hline 0.7 \\ \hline 0.3 \\ 0.9 \\ 0.2 \\ 0.4 \\ \hline 0.5 \\ 0.7 \\ \hline 0.6 \\ \end{array}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	21.6 22.1 23.2 22.5 22.8 22.5 23.6 23.2 24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.0 25.5 26.0 25.0 26.0 25.7 24.3	$\begin{array}{r} \underline{22.7} \\ \underline{22.4} \\ \underline{23.6} \\ \underline{23.6} \\ \underline{23.3} \\ \underline{23.3} \\ \underline{23.3} \\ \underline{24.0} \\ \underline{24.5} \\ \underline{24.3} \\ \underline{25.1} \\ \underline{25.6} \\ \underline{25.2} \\ \underline{26.3} \\ \underline{26.2} \\ \underline{25.6} \\ \underline{25.6} \\ \underline{25.6} \\ \underline{25.6} \\ \underline{25.6} \\ \underline{25.6} \\ \underline{25.6} \\ \underline{25.3} \\ \end{array}$	22.5 22.5 23.5 23.5 23.1 23.3 23.7 24.0 24.3 24.1 25.0 25.4 25.2 26.3 26.3 26.3 26.1 25.8	22.4 22.4 23.6 23.4 23.0 23.4 23.7 23.8 24.2 23.7 25.2 25.3 25.0 26.3 26.5 25.9 26.1 25.9	$\begin{array}{c c} 1.1 \\ 0.4 \\ 0.4 \\ 1.1 \\ 0.3 \\ 0.9 \\ 0.2 \\ 0.8 \\ 0.3 \\ 0.7 \\ 0.3 \\ 0.7 \\ 0.3 \\ 0.9 \\ 0.2 \\ 0.4 \\ 0.5 \\ 0.7 \\ 0.6 \\ \end{array}$
52       54       55       56       57       58       59       60       61       62       63       64       65       66       67       68       70       71       72       73       74       75	22.1 23.2 22.5 22.8 22.5 23.6 23.2 24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.0 25.5 26.2 26.0 25.0 25.0 25.7 24.3	$\begin{array}{r} 22.4 \\ 23.6 \\ 23.6 \\ 23.1 \\ 23.3 \\ 23.8 \\ 24.0 \\ 24.5 \\ 24.3 \\ 25.1 \\ 25.6 \\ 25.2 \\ 26.3 \\ 26.5 \\ 26.2 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.3 \\ \end{array}$	22.5 23.5 23.5 23.1 23.3 23.7 24.0 24.3 24.1 25.0 25.4 25.2 26.3 26.3 26.1 26.1 25.8	22.4 23.6 23.4 23.0 23.4 23.7 23.8 24.2 23.7 25.2 25.3 25.0 26.3 26.5 25.9 26.1 25.9	$\begin{array}{c} 0.4\\ 0.4\\ 1.1\\ 0.3\\ 0.9\\ 0.2\\ 0.8\\ 0.3\\ 0.7\\ 0.3\\ 0.9\\ 0.2\\ 0.4\\ 0.5\\ 0.7\\ 0.6\\ 0.6\\ \end{array}$
54           55           56           57           58           59           60           61           62           63           64           65           66           67           68           70           71           72           73           74           75	23.2 22.5 22.8 22.5 23.6 23.2 24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.0 25.5 26.0 25.5 26.2 26.0 25.0 25.0 25.7 24.3	$\begin{array}{r} 23.6\\ 23.6\\ 23.1\\ 23.3\\ 23.8\\ 24.0\\ 24.5\\ 24.3\\ 25.1\\ 25.6\\ 25.2\\ 26.3\\ 26.5\\ 26.2\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.3\\ \end{array}$	23.5 23.5 23.1 23.3 23.7 24.0 24.3 24.1 25.0 25.4 25.2 26.3 26.3 26.1 26.1 25.8	23.6 23.4 23.0 23.4 23.7 23.8 24.2 23.7 25.2 25.3 25.0 26.3 26.3 26.5 25.9 26.1 25.9	$\begin{array}{c} 0.4 \\ 1.1 \\ 0.3 \\ 0.9 \\ 0.2 \\ 0.8 \\ 0.3 \\ 0.7 \\ 0.3 \\ 0.9 \\ 0.2 \\ 0.4 \\ 0.5 \\ 0.7 \\ 0.6 \\ \end{array}$
55         56           57         58           59         60           61         62           63         64           65         66           67         68           70         71           72         73           74         75           76         76	22.5 22.8 22.5 23.6 23.2 24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	$\begin{array}{r} 23.6\\ 23.1\\ 23.3\\ 23.8\\ 24.0\\ 24.5\\ 24.3\\ 25.1\\ 25.6\\ 25.2\\ 26.3\\ 26.5\\ 26.2\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.3\\ \end{array}$	23.5 23.1 23.3 23.7 24.0 24.3 24.1 25.0 25.4 25.2 26.3 26.3 26.1 26.1 25.8	23.4 23.0 23.4 23.7 23.8 24.2 23.7 25.2 25.3 25.0 26.3 26.5 25.9 26.1 25.9	$ \begin{array}{c} 1.1\\ 0.3\\ 0.9\\ 0.2\\ 0.8\\ 0.3\\ 0.7\\ 0.3\\ 0.9\\ 0.2\\ 0.4\\ 0.5\\ 0.7\\ 0.6\\ \end{array} $
56           57           58           59           60           61           62           63           64           65           66           67           68           70           71           72           73           74           75	22.8 22.5 23.6 23.2 24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.0 25.5 26.2 26.0 25.5 26.2 26.0 25.0 25.7 24.3	$\begin{array}{r} 23.1 \\ 23.3 \\ 23.8 \\ 24.0 \\ 24.5 \\ 24.3 \\ 25.1 \\ 25.6 \\ 25.2 \\ 26.3 \\ 26.5 \\ 26.2 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.3 \\ \end{array}$	23.1 23.3 23.7 24.0 24.3 24.1 25.0 25.4 25.2 26.3 26.3 26.1 26.1 25.8	23.0 23.4 23.7 23.8 24.2 23.7 25.2 25.3 25.0 26.3 26.5 25.9 26.1 25.9	$\begin{array}{c} 0.3 \\ 0.9 \\ 0.2 \\ 0.8 \\ 0.3 \\ 0.7 \\ 0.3 \\ 0.9 \\ 0.2 \\ 0.4 \\ 0.5 \\ 0.7 \\ 0.6 \\ \end{array}$
57           58           59           60           61           62           63           64           65           66           67           68           70           71           72           73           74           75           76	22.5 23.6 23.2 24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.0 25.5 26.2 26.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	$\begin{array}{r} 23.3 \\ 23.8 \\ 24.0 \\ 24.5 \\ 24.3 \\ 25.1 \\ 25.6 \\ 25.2 \\ 26.3 \\ 26.5 \\ 26.2 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.3 \\ \end{array}$	23.3 23.7 24.0 24.3 24.1 25.0 25.4 25.2 26.3 26.3 26.1 26.1 25.8	23.4 23.7 23.8 24.2 23.7 25.2 25.3 25.0 26.3 26.5 25.9 26.1 25.9	$\begin{array}{c} 0.9 \\ 0.2 \\ 0.8 \\ 0.3 \\ 0.7 \\ 0.3 \\ 0.9 \\ 0.2 \\ 0.4 \\ 0.5 \\ 0.7 \\ 0.6 \\ \end{array}$
58           59           60           61           62           63           64           65           66           67           68           70           71           72           73           74           75           76	23.6 23.2 24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.0 25.5 26.2 26.0 25.5 26.2 26.0 25.0 25.0 25.0 25.0 25.0 25.0 26.2 26.0 25.0 25.0 25.0 26.2 26.2 26.0 25.0 25.0 25.0 26.2 26.2 26.0 25.0 25.9 26.0 25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	$\begin{array}{r} 23.8\\ 24.0\\ 24.5\\ 24.3\\ 25.1\\ 25.6\\ 25.2\\ 26.3\\ 26.5\\ 26.2\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.6\\ 25.3\\ \end{array}$	23.7 24.0 24.3 24.1 25.0 25.4 25.2 26.3 26.3 26.1 26.1 25.8	23.7 23.8 24.2 23.7 25.2 25.3 25.0 26.3 26.5 25.9 26.1 25.9	$\begin{array}{c} 0.2\\ 0.8\\ 0.3\\ 0.7\\ 0.3\\ 0.9\\ 0.2\\ 0.4\\ 0.5\\ 0.7\\ 0.6\\ \end{array}$
59           60           61           62           63           64           65           66           67           68           70           71           72           73           74           75           76	23.2 24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.0 25.0 25.0 25.0 25.0 25.7 24.3	$\begin{array}{r} 24.0 \\ 24.5 \\ 24.3 \\ 25.1 \\ 25.6 \\ 25.2 \\ 26.3 \\ 26.5 \\ 26.2 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.6 \\ 25.3 \\ \end{array}$	24.0 24.3 24.1 25.0 25.4 25.2 26.3 26.3 26.1 26.1 25.8	23.8 24.2 23.7 25.2 25.3 25.0 26.3 26.5 25.9 26.1 25.9	$\begin{array}{c c} 0.8\\ \hline 0.3\\ \hline 0.7\\ \hline 0.3\\ \hline 0.9\\ \hline 0.2\\ \hline 0.4\\ \hline 0.5\\ \hline 0.7\\ \hline 0.6\\ \end{array}$
60         61           62         63           63         64           65         66           67         68           70         71           72         73           74         75           76         76	24.2 23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.2 26.0 25.0 25.0 25.7 24.3	24.5 24.3 25.1 25.6 25.2 26.3 26.5 26.5 26.2 25.6 25.6 25.6 25.6 25.3	24.3 24.1 25.0 25.4 25.2 26.3 26.3 26.1 26.1 25.8	24.2 23.7 25.2 25.3 25.0 26.3 26.5 25.9 26.1 25.9	$ \begin{array}{r} 0.3 \\ 0.7 \\ 0.3 \\ 0.9 \\ 0.2 \\ 0.4 \\ 0.5 \\ 0.7 \\ 0.6 \\ \end{array} $
61           62           63           64           65           66           67           68           70           71           72           73           74           75           76	23.6 24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.0 25.0 25.0 25.7 24.3	$\begin{array}{r} 24.3 \\ 25.1 \\ \hline 25.6 \\ 25.2 \\ \hline 26.3 \\ \hline 26.5 \\ \hline 26.2 \\ \hline 25.6 \\ \hline 25.6 \\ \hline 25.6 \\ \hline 25.3 \\ \hline \end{array}$	24.1 25.0 25.4 25.2 26.3 26.3 26.1 26.1 25.8	23.7 25.2 25.3 25.0 26.3 26.5 25.9 26.1 25.9	$ \begin{array}{r} 0.7\\ 0.3\\ 0.9\\ 0.2\\ 0.4\\ 0.5\\ 0.7\\ 0.6\\ \end{array} $
63           64           65           66           67           68           70           71           72           73           74           75           76	24.9 24.7 25.0 25.9 26.0 25.5 26.2 26.0 25.0 25.0 25.0 25.7 24.3	25.6 25.2 26.3 26.5 26.2 25.6 25.6 25.6 25.3	25.4 25.2 26.3 26.3 26.1 26.1 25.8	25.3 25.0 26.3 26.5 25.9 26.1 25.9	0.9 0.2 0.4 0.5 0.7 0.6
63           64           65           66           67           68           70           71           72           73           74           75           76	24.7 25.0 25.9 26.0 25.5 26.2 26.0 25.0 25.0 25.0 25.7 24.3	25.6 25.2 26.3 26.5 26.2 25.6 25.6 25.6 25.3	25.2 26.3 26.3 26.1 26.1 25.8	25.0 26.3 26.5 25.9 26.1 25.9	0.9 0.2 0.4 0.5 0.7 0.6
65 66 67 68 70 71 72 73 74 75 76	25.9 26.0 25.5 26.2 26.0 25.0 25.0 25.7 24.3	25.2 26.3 26.5 26.2 25.6 25.6 25.6 25.3	26.3 26.3 26.1 26.1 25.8	26.3 26.5 25.9 26.1 25.9	0.4 0.5 0.7 0.6
66           67           68           70           71           72           73           74           75           76	26.0 25.5 26.2 26.0 25.0 25.7 24.3	26.5 26.2 25.6 25.6 25.6 25.6 25.3	26.3 26.1 26.1 25.8	26.5 25.9 26.1 25.9	0.5 0.7 0.6
67 68 70 71 72 73 74 75 76	25.5 26.2 26.0 25.0 25.7 24.3	26.2 25.6 25.6 25.6 25.3	26.1 26.1 25.8	25.9 26.1 25.9	0.7 0.6
68           70           71           72           73           74           75           76	26.2 26.0 25.0 25.7 24.3	25.6 25.6 25.6 25.3	26.1 25.8	26.1 25.9	0.6
70           71           72           73           74           75           76	26.0 25.0 25.7 24.3	25.6 25.6 25.3	25.8	25.9	The second second second second second second second second second second second second second second second se
71 72 73 74 75 76	25.0 25.7 24.3	25.6 25.3			
72 73 74 75 76	<u>25.7</u> 24.3	25.3	/ 1 1	25.5	0.4
73 74 75 76	24.3		25.0	25.5 25.2	0.6
74 75 76	- The second sec	24.6	24.6	23.2	0.7
75 76		24.5	24.4	24.4	0.3
	24.1	24.7	24.5	24.5	0.6
78	24.3	23.8	23.8	23.7	0.6
	24.0	23.8	23.5	23.5	0.5
WORST CAS	E MEASUREMENT	DATA - WITHIN RATE	ED ACCURACY OF ME	CASURING DEVICE ±	.75 dB
zest Visual Carrier (dBn rst Adj. Carrier Delta (d k-Min Carrier Delta (dB Jour Delta: PASS [1	lB): P [1.7] Ch 3): P [7.5] Ch	h. 95 P [19.2 . 2 P [1.2]	Ch. 95 P [1 Ch. 23 P [1	19.1] Ch. 95 1.3] Ch. 49	<u>RECORD 4</u> P [18.3] Ch. 95 P [2.2] Ch. 95 P [8.2] Ch. 66/95
PASS					
on Cable					
In Sable					

Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 1/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#8 Bartlet Rd Jay

4         201         200         0.1         0.3           5         10.8         20.1         19.6         0.4         0.3           96         20.1         19.8         0.3         0.3         0.3           96         20.1         19.8         0.3         0.3         0.3           98         19.4         19.5         0.1         19.5         0.1           14         19.6         19.7         0.1         1.5         0.4           15         19.9         19.5         0.4         1.6         0.1         1.9           16         19.1         19.5         0.4         1.6         1.6         1.1         1.1           20         20.7         20.5         0.2         2.2         2.0         2.0         2.1         2.0         1.1         2.0         1.1         2.0         1.1         1.1         2.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         2.0         1.1         1.1         2.1         2.1         2.0         1.1         1.1         2.2         2.1         2.0         1.1         1.1	CHANNEL 2	CURRENT (dBr 20.6	19.8	bmv) DELTA ().8	dB)	
5         19.8         20.1         0.3           6         20.0         19.6         0.4           95         18.7         16.7         2.0           96         20.1         19.8         0.3           98         19.4         19.5         19.7         0.1           99         19.5         19.7         0.1           14         19.5         19.7         0.1           15         19.9         19.5         0.4           16         19.1         19.5         0.4           17         20.3         19.9         0.4           18         19.6         19.8         0.2           20         20.7         20.5         0.2           7         20.6         20.8         0.7           9         21.1         20.0         1.1           10         21.4         20.7         0.7           11         21.2         20.8         0.0           23         20.7         20.7         0.0           12         21.8         20.7         0.1           13         20.8         20.8         0.0           24         21.4	3	18.9	20.0	1.1		
6         20.0         19.6         0.4           95         18.7         16.7         2.0           96         20.1         19.8         0.3           98         19.4         19.2         0.1           199         10.5         19.7         0.2           14         19.6         19.7         0.1           15         19.9         19.5         0.4           16         19.1         19.5         0.4           16         19.1         19.5         0.4           18         19.6         19.8         0.2           20         20.7         20.8         0.2           21         20.7         20.8         0.2           7         20.6         20.8         0.2           8         21.5         20.8         0.2           10         21.4         20.7         0.7           11         21.2         0.1         20.7           12         21.8         20.7         1.1           13         20.8         20.7         0.7           23         20.7         20.7         0.0           24         21.4         21.0 <td></td> <td></td> <td></td> <td></td> <td></td>						
95         18.7         16.7         2.0           96         20.1         19.8         0.3           98         19.4         19.5         0.1           99         10.5         19.7         0.2           14         19.6         19.7         0.1           15         19.9         19.5         0.4           16         19.1         19.5         0.4           17         20.3         19.9         0.4           20         20.7         20.5         0.2           21         20.9         20.4         0.5           7         20.6         20.8         0.7           8         21.5         20.8         0.7           9         21.1         20.0         1.1           10         21.2         20.0         0.7         0.1           13         20.8         20.7         1.1         0.1           13         20.8         20.7         0.0         1.1           13         20.8         20.7         0.0         1.2           21.4         21.4         21.0         0.4         0.2           22         22.2         21.3<			20.1			
96         20.1         19.8         0.3           98         19.4         19.5         0.1           99         19.5         19.7         0.1           15         19.9         19.5         0.4           16         19.1         19.5         0.4           16         19.1         19.5         0.4           17         20.3         19.9         0.4           18         19.6         19.8         0.2           20         20.7         20.5         0.2           21         20.7         20.8         0.2           22         20.9         20.4         0.5           7         20.6         20.8         0.2           8         21.5         20.8         0.7           9         21.1         20.0         1.1           10         21.4         20.7         0.7           11         21.2         21.8         20.7         1.1           23         20.7         20.7         1.1         1.1           12         21.4         21.7         1.1         0.1           23         20.7         20.7         0.7         0.0 </td <td></td> <td></td> <td></td> <td></td> <td></td>						
98         19.4         19.5         19.7         0.2           14         19.6         19.7         0.1           15         19.9         19.5         0.4           16         19.1         19.5         0.4           16         19.1         19.5         0.4           17         20.3         19.9         0.4           18         19.6         19.8         0.2           20         20.7         20.5         0.2           21         20.7         20.8         0.7           22         20.9         20.4         0.5           7         20.6         20.8         0.7           10         21.4         20.7         0.7           11         21.2         21.2         0.0           12         21.8         20.7         1.1           13         20.8         20.8         0.0           23         21.4         21.0         0.4           25         22.2         21.3         0.9           26         21.7         21.4         21.0         0.4           27         21.7         21.4         0.7           28 </td <td></td> <td></td> <td>10.7</td> <td></td> <td></td>			10.7			
99         19.5         19.7         0.1           15         19.9         19.5         0.4           16         19.1         19.5         0.4           16         19.1         19.5         0.4           17         20.3         19.9         0.4           18         19.6         19.8         0.2           20         20.7         20.5         0.2           21         20.7         20.8         0.1           22         20.9         20.4         0.5           9         21.1         20.0         1.1           10         21.4         20.7         0.7           11         21.2         21.3         20.7         0.7           11         21.4         20.7         0.7         0.0           12         21.8         20.7         0.6         20.8           25         22.2         21.7         21.3         0.9           26         21.7         21.3         0.9         26           27         21.4         21.0         0.4         27           29         21.9         22.3         0.4         0.7           29 </td <td></td> <td></td> <td></td> <td></td> <td></td>						
14         19.6         19.7         0.1           15         19.9         19.5         0.4           16         19.1         19.5         0.4           17         20.3         19.9         0.4           18         19.6         19.8         0.2           20         20.7         20.5         0.2           21         20.7         20.8         0.1           22         20.9         20.4         0.5           7         20.6         20.8         0.7           9         21.1         20.0         1.1           10         21.4         20.7         0.7           11         21.2         0.0         1.1           13         20.8         20.8         0.0           23         20.7         20.7         0.7           13         20.8         20.8         0.0           23         20.7         21.3         0.9           24         21.4         21.0         0.4           25         22.2         21.3         0.4           27         21.7         21.3         0.4           27         21.7         21.3 <td></td> <td></td> <td>19.5</td> <td></td> <td></td>			19.5			
15         19.9         19.5         0.4           16         19.1         19.5         0.4           17         20.3         19.9         0.4           18         19.6         19.8         0.2           20         20.7         20.5         0.2           21         20.7         20.8         0.1           22         20.9         20.4         0.5           7         20.6         20.8         0.2           8         21.5         20.8         0.7           9         21.1         20.0         1.1           10         21.4         20.7         0.7           11         21.2         0.0         1.1           13         20.8         20.7         1.0           23         20.7         20.7         0.0           24         21.4         21.0         0.4           25         22.2         21.3         0.4           26         21.7         21.3         0.4           27         21.7         21.3         0.4           30         21.7         22.4         0.7           29         21.9         22.3				the second second second second second second second second second second second second second second second se		
16         19.1         19.5         0.4           17         20.3         19.9         0.4           18         19.6         19.8         0.2           20         20.7         20.5         0.2           21         20.7         30.8         0.1           22         20.9         20.4         0.5           7         20.6         20.8         0.2           8         21.5         20.8         0.7           9         21.4         20.7         0.0         1.1           10         21.4         20.7         0.0         1.1           11         21.2         0.0         1.1         1.1           23         20.7         20.7         0.0           24         21.4         21.0         0.4           25         22.2         1.3         0.9           26         17.7         21.9         0.2           28         21.7         22.4         0.7           29         21.9         21.4         21.4         0.4           30         21.7         21.4         0.4         0.2           32         21.7         22.4 <td></td> <td></td> <td>19.5</td> <td></td> <td></td>			19.5			
18         19.6         19.8         0.2           20         20.7         20.8         0.1           22         20.9         20.4         0.5           7         20.6         20.8         0.2           8         21.5         20.8         0.7           9         21.4         20.0         1.1           10         21.4         20.7         0.7           11         21.2         20.0         1.1           10         21.4         20.7         1.1           11         21.2         0.0         1.1           13         20.8         20.7         1.1           13         20.8         0.8         0.0           23         21.7         21.3         0.9           24         21.7         21.3         0.9           26         21.7         21.3         0.9           26         21.7         21.3         0.4           30         21.7         21.3         0.4           31         21.4         21.4         0.1           32         21.4         21.4         0.0           33         21.7         21.4			19.5			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		20.3				
21       20.7       20.8       0.1         22       20.9       20.4       0.5         7       20.6       20.8       0.2         8       21.5       20.8       0.7         9       21.1       20.0       1.1         10       21.4       20.7       0.7         11       21.2       21.3       0.0         12       21.8       20.7       1.1         13       20.8       0.8       0.0         23       20.7       20.7       0.0         24       21.4       21.0       0.4         25       22.2       21.3       0.9         26       21.7       21.4       0.7         27       21.7       22.4       0.7         29       21.9       0.2       0.2         30       21.7       21.4       0.3         31       21.4       21.6       0.2         32       21.4       21.4       0.6         33       21.0       0.4       21.6       0.2         33       21.6       21.0       0.4       36         21.7       22.4       0.7       0.3<						
22       20.9       20.4       0.5         7       20.6       20.8       0.2         8       21.5       20.8       0.7         9       21.1       20.0       1.1         10       21.4       20.7       0.7         11       21.2       0.0       0.7         12       21.8       20.7       0.0         23       20.7       20.7       0.0         24       21.4       21.0       0.4         25       22.2       21.3       0.9         26       21.7       21.3       0.4         27       21.7       21.3       0.4         28       21.7       22.4       0.7         29       21.9       0.2       0.4         30       21.7       21.4       0.3         31       21.4       21.4       0.7         32       21.4       21.9       0.9         34       21.6       21.9       0.9         35       21.5       21.9       0.4         36       21.7       22.4       0.7         37       21.9       0.4       0.5         36 </td <td>20</td> <td>20.7</td> <td>20.5</td> <td></td> <td></td>	20	20.7	20.5			
7       20.6       20.8       0.2         8       21.5       20.8       0.7         9       21.1       20.0       1.1         10       21.4       20.7       0.7         11       21.2       21.2       0.0         12       21.8       20.7       1.1         13       20.8       20.7       0.0         23       20.7       20.7       0.0         24       21.4       21.0       0.4         25       22.2       21.3       0.9         26       21.7       21.3       0.4         27       21.7       22.3       0.4         30       21.7       21.4       0.2         28       21.7       21.4       0.3         31       21.4       21.4       0.0         32       21.4       21.4       0.0         33       21.0       21.9       0.3         34       21.6       21.9       0.3         35       21.5       21.9       0.3         36       21.7       22.4       0.7         37       21.9       0.4       2.6         42						
8       21.5       20.8       0.7         9       21.1       20.0       1.1         10       21.4       20.7       0.7         11       21.2       21.2       0.0         12       21.8       20.7       1.1         13       20.8       20.7       0.0         23       20.7       20.7       0.0         24       21.4       21.0       0.4         25       22.2       21.3       0.9         26       21.7       21.3       0.4         27       21.7       21.3       0.4         28       21.7       22.4       0.7         29       21.9       22.3       0.4         30       21.7       21.4       0.2         31       21.4       21.4       0.0         32       21.4       21.4       0.0         33       21.0       21.9       0.4         34       21.6       21.0       0.6         35       21.5       21.9       0.0         36       21.7       22.4       0.7         37       21.9       21.9       0.0	22			0.5		
9       21.1       20.0       1.1         10       21.4       20.7       0.7         11       21.2       0.0         12       21.8       20.7       1.1         13       20.8       20.8       0.0         23       20.7       0.0       0.4         25       22.2       21.3       0.9         26       21.7       21.3       0.4         27       21.7       22.4       0.7         28       21.7       22.4       0.7         29       21.9       22.3       0.4         30       21.7       21.4       0.0         31       21.4       21.6       0.2         32       21.4       21.4       0.0         33       21.0       21.9       0.4         35       21.5       21.9       0.4         36       21.7       22.4       0.7         37       21.9       0.1       0.6         35       21.5       21.0       0.6         36       21.7       22.4       0.7         37       21.9       0.1       0.4         36       21.5						
10         21.4         20.7         0.7           11         21.2         21.2         0.0           12         21.8         20.7         1.1           13         20.8         20.8         0.0           23         20.7         20.7         0.0           24         21.4         21.0         0.4           25         22.2         21.3         0.9           26         21.7         21.9         0.2           28         21.7         22.4         0.7           29         21.9         0.2         3.0.4           30         21.7         21.4         0.1           31         21.4         21.6         0.2           32         21.7         22.4         0.7           30         21.7         21.4         0.3           31         21.4         21.6         0.2           32         21.4         21.6         0.2           33         21.0         21.9         0.9           34         21.6         21.0         0.6           35         21.9         0.3         3           39         21.8         22.6 </td <td><u>ð</u></td> <td></td> <td></td> <td></td> <td>•••••••</td>	<u>ð</u>				•••••••	
11         21.2         21.2         0.0           12         21.8         20.7         1.1           13         20.8         20.8         0.0           23         20.7         20.7         0.0           24         21.4         21.0         0.4           25         22.2         21.3         0.9           26         21.7         21.3         0.4           27         21.7         21.4         0.7           29         21.9         0.2         0.4           30         21.7         21.4         0.3           31         21.4         21.4         0.0           32         21.4         21.9         0.9           33         21.0         21.9         0.4           35         21.5         21.9         0.4           36         21.7         22.4         0.7           37         21.9         0.3         3           39         21.8         22.6         0.8           40         21.6         22.0         0.4           42         21.1         21.6         0.5           39         21.4         21.8 <td></td> <td></td> <td></td> <td></td> <td></td>						
12       21.8       20.7       1.1         13       20.8       20.8       0.0         23       20.7       20.7       0.0         24       21.4       21.0       0.4         25       22.2       21.3       0.9         26       21.7       21.3       0.4         27       21.7       21.9       0.2         28       21.7       22.3       0.4         30       21.7       21.4       0.7         29       21.9       22.3       0.4         31       21.4       21.4       0.0         33       21.0       21.9       0.2         32       21.4       21.4       0.0         33       21.0       21.9       0.9         34       21.6       21.0       0.6         35       21.5       21.9       0.4         36       21.7       22.4       0.7         37       21.9       0.4       0.4         42       21.1       21.6       0.3         39       21.8       22.6       0.8         40       21.6       22.0       0.4 <td< td=""><td>and the second se</td><td></td><td></td><td></td><td></td></td<>	and the second se					
13       20.8       20.8       0.0         23       20.7       20.7       0.0         24       21.4       21.0       0.4         25       22.2       21.3       0.9         26       21.7       21.3       0.4         27       21.7       22.4       0.7         28       21.7       22.4       0.7         29       21.9       22.3       0.4         30       21.7       21.4       0.3         31       21.4       21.6       0.2         32       21.4       0.16       0.2         33       21.0       1.9       0.9         34       21.6       21.0       0.6         35       21.5       21.9       0.4         36       21.7       22.4       0.7         37       21.9       0.9       0.4         36       21.7       22.4       0.7         37       21.9       0.19       0.0         38       22.2       1.9       0.3         40       21.6       22.0       0.4         41       21.1       21.6       0.5         4			20.7			
23       20.7       20.7       0.0         24       21.4       21.0       0.4         25       22.2       21.3       0.9         26       21.7       21.3       0.4         27       21.7       21.3       0.4         28       21.7       21.9       0.2         28       21.7       21.4       0.3         30       21.7       21.4       0.3         31       21.4       21.6       0.2         32       21.4       21.4       0.0         33       21.0       21.9       0.9         34       21.6       21.9       0.9         35       21.5       21.9       0.4         36       21.7       22.4       0.7         37       21.9       0.19       0.9         34       21.6       21.0       0.6         35       21.5       21.9       0.19       0.4         36       21.7       22.4       0.7       0.3         39       21.8       22.6       0.8       0.4         40       21.6       22.0       0.4       0.4         42 <td< td=""><td>13</td><td>20.8</td><td>20.8</td><td>0.0</td><td></td></td<>	13	20.8	20.8	0.0		
25       22.2       21.3       0.9         26       21.7       21.3       0.4         27       21.7       21.9       0.2         28       21.7       22.4       0.7         29       21.9       7       21.4       0.3         30       21.7       21.4       0.3       0.4         30       21.7       21.4       0.3       0.4         31       21.4       21.6       0.2       0.3         32       21.4       21.6       0.2       0.4         35       21.5       21.9       0.4       0.6         35       21.7       22.4       0.7       0.4         36       21.7       22.4       0.7       0.4         36       21.7       22.4       0.7       0.4         36       21.7       22.4       0.7       0.4         36       21.7       22.4       0.7       0.4         37       21.9       0.3       0.3       0.4         41       21.6       22.0       0.4       0.4         42       21.1       21.6       0.4       0.4         43       21.4<	23	20.7	20.7	and all a second s		
26       21.7       21.3       0.4         27       21.7       21.9       0.2         28       21.7       22.4       0.7         29       21.9       22.3       0.4         30       21.7       21.4       0.3         31       21.4       21.6       0.2         32       21.4       21.4       0.0         33       21.0       21.9       0.9         34       21.6       21.9       0.9         35       21.5       21.9       0.4         36       21.7       22.4       0.7         37       21.9       0.0       0.9         38       22.2       21.9       0.0         39       21.8       22.6       0.8         40       21.6       22.0       0.4         42       21.1       21.6       0.5         43       21.4       21.8       0.4         44       21.1       21.4       0.8         46       21.6       22.4       0.8         46       21.6       22.4       0.8         46       21.6       22.4       0.8 <td< td=""><td></td><td>21.4</td><td>21.0</td><td></td><td></td></td<>		21.4	21.0			
27       21.7       21.9       0.2         28       21.7       22.4       0.7         29       21.9       22.3       0.4         30       21.7       21.4       0.3         31       21.4       0.3       0.4         32       21.4       21.4       0.3         31       21.4       21.4       0.3         32       21.4       21.4       0.0         33       21.0       21.9       0.9         34       21.6       21.0       0.6         35       21.5       21.9       0.4         36       21.7       22.4       0.7         37       21.9       0.1       0.6         38       22.2       21.9       0.3         39       21.8       22.6       0.8         40       21.6       22.0       0.4         42       21.1       21.6       0.5         43       21.4       21.8       0.4         44       21.1       21.4       0.8         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75$ d         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY						
28       21.7       22.4       0.7         29       21.9       22.3       0.4         30       21.7       21.4       0.3         31       21.4       21.6       0.2         32       21.4       21.4       0.0         33       21.0       21.9       0.9         34       21.6       21.9       0.4         36       21.7       22.4       0.7         37       21.9       0.4       0.6         35       21.7       22.4       0.7         37       21.9       0.4       0.4         36       21.7       22.4       0.7         37       21.9       0.19       0.0         38       22.2       1.9       0.0         39       21.8       22.6       0.8         40       21.6       22.0       0.4         42       21.1       21.6       0.5         43       21.4       21.8       0.4         44       21.1       21.1       0.0         45       21.4       21.8       0.4         46       21.6       22.4       0.8 <td c<="" td=""><td></td><td></td><td>21.3</td><td></td><td></td></td>	<td></td> <td></td> <td>21.3</td> <td></td> <td></td>			21.3		
29         21.9         22.3         0.4           30         21.7         21.4         0.3           31         21.4         21.6         0.2           32         21.4         21.4         0.0           33         21.0         21.9         0.9           34         21.6         21.0         0.6           35         21.5         21.9         0.4           36         21.7         22.4         0.7           37         21.9         0.0         38         22.2           39         21.8         0.0         33           40         21.6         22.0         0.4           42         21.1         21.6         0.3           43         21.4         21.8         0.4           42         21.1         21.6         0.5           43         21.4         21.8         0.4           46         21.6         22.4         0.8           Worst Adj. Carrier Delta (dB):         P [18.7] Ch. 95         P [16.7] Ch. 95           Wast Adj. Carrier Delta (dB):         P [17.7] Ch. 2         P [3.1] Ch. 95         P [11.7] Ch. 2         P [3.1] Ch. 67/95 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>						
30       21.7       21.4       0.3         31       21.4       21.6       0.2         32       21.4       21.4       0.0         33       21.0       21.9       0.9         34       21.6       21.0       0.6         35       21.5       21.9       0.4         36       21.7       22.4       0.7         37       21.9       0.0       0.3         38       22.2       21.9       0.3         39       21.8       22.6       0.8         40       21.6       22.0       0.4         42       21.1       21.1       0.0         43       21.4       21.8       0.4         44       21.1       21.1       0.0         45       21.4       21.8       0.4         46       21.6       22.4       0.8         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ Workst Adj. Carrier Delta (dB):       P [18.7] Ch. 95       P [16.7] Ch. 95         Max-Min Carrier Delta (dB):       P [17.5] Ch. 68/95       P [9.1] Ch. 67/95 <td></td> <td></td> <td></td> <td></td> <td>·</td>					·	
31       21.4       21.6       0.2         32       21.4       21.4       0.0         33       21.0       21.9       0.9         34       21.6       21.9       0.4         35       21.5       21.9       0.4         36       21.7       22.4       0.7         37       21.9       0.0         38       22.2       21.9       0.0         39       21.8       22.6       0.8         40       21.6       22.0       0.4         42       21.1       21.6       0.5         43       21.4       21.8       0.4         44       21.1       21.6       0.5         43       21.4       21.8       0.4         44       21.1       21.1       0.0         45       21.4       21.8       0.4         46       21.6       22.4       0.8         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ Visual Carrier Delta (dB):       P  18.7  Ch. 95       P  16.7  Ch. 95         Max-Min Car						
32       21.4       21.4       0.0         33       21.0       21.9       0.9         34       21.6       21.0       0.6         35       21.5       21.9       0.4         36       21.7       22.4       0.7         37       21.9       0.3       0.0         38       22.2       21.9       0.3         39       21.8       22.6       0.8         40       21.6       22.0       0.4         42       21.1       21.6       0.5         43       21.4       21.8       0.4         44       21.1       21.6       0.5         43       21.4       21.8       0.4         44       21.1       21.6       0.5         45       21.4       21.8       0.4         46       21.6       22.4       0.8         Worst Case MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ Worst Adj. Carrier Delta (dB):       P   1.7   Ch. 95       P   16.7   Ch. 95         Max-Min Carrier Delta (dB):       P   1.7   Ch. 2       P   3.1   Ch. 95       P   9.1   Ch. 67/95         6 Month Delta:       PASS   2.0 dB   Ch. 95				0.3		
33       21.0       21.9       0.9         34       21.6       21.0       0.6         35       21.5       21.9       0.4         36       21.7       22.4       0.7         37       21.9       21.9       0.0         38       22.2       21.9       0.3         39       21.8       22.6       0.8         40       21.6       22.0       0.4         42       21.1       21.6       0.5         43       21.4       21.8       0.4         44       21.1       21.6       0.5         44       21.1       21.1       0.0         45       21.4       21.8       0.4         46       21.6       22.4       0.8         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ Max-Min Carrier Delta (dB):       P [18.7] Ch. 95         P [16.7] Ch. 95			21.4			
34 $21.6$ $21.0$ $0.6$ $35$ $21.5$ $21.9$ $0.4$ $36$ $21.7$ $22.4$ $0.7$ $37$ $21.9$ $21.9$ $0.0$ $38$ $22.2$ $21.9$ $0.3$ $39$ $21.8$ $22.6$ $0.8$ $40$ $21.6$ $22.0$ $0.4$ $42$ $21.1$ $21.6$ $0.5$ $43$ $21.4$ $21.8$ $0.4$ $44$ $21.1$ $21.1$ $0.0$ $44$ $21.4$ $21.8$ $0.4$ $46$ $21.6$ $22.4$ $0.8$	33	21.0	21.9	().9		
$36$ $21.7$ $22.4$ $0.7$ $37$ $21.9$ $21.9$ $0.0$ $38$ $27.2$ $21.9$ $0.3$ $39$ $21.8$ $22.6$ $0.8$ $40$ $21.6$ $22.0$ $0.4$ $42$ $21.1$ $21.6$ $0.4$ $42$ $21.1$ $21.6$ $0.4$ $44$ $21.1$ $21.1$ $0.4$ $44$ $21.1$ $21.1$ $0.0$ $45$ $21.4$ $21.8$ $0.4$ $46$ $21.6$ $22.4$ $0.8$ <b>WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE <math>\pm .75 \text{ d}</math> Worst Adj. Carrier Delta (dB): P [18.7] Ch. 95 P Worst Adj. Carrier Delta (dB): P [17.] Ch. 2 P [3.1] Ch. 95 P [9.1] Ch. 67/95 6 Month Delta: PASS [2.0 dB] Ch. 95 SS </b>			21.0			
$37$ $21.9$ $21.9$ $0.0$ $38$ $22.2$ $21.9$ $0.3$ $39$ $21.8$ $22.6$ $0.8$ $40$ $21.6$ $22.0$ $0.4$ $42$ $21.1$ $21.6$ $0.5$ $43$ $21.4$ $21.6$ $0.4$ $44$ $21.1$ $21.6$ $0.4$ $44$ $21.4$ $21.8$ $0.4$ $45$ $21.4$ $21.8$ $0.4$ $46$ $21.6$ $22.4$ $0.8$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ $P + 16.71 \text{ Ch. 95}$ Worst Adj. Carrier Delta (dBnv): $P + 18.71 \text{ Ch. 95}$ $P + 16.71 \text{ Ch. 95}$ Worst Adj. Carrier Delta (dB): $P + 1.71 \text{ Ch. 2}$ $P + 3.11 \text{ Ch. 95}$ Max-Min Carrier Delta (dB): $P + 7.51 \text{ Ch. 68/95}$ $P + 9.1.1 \text{ Ch. 67/95}$ 6 Month Delta:       PASS $[2.0 \text{ dB}]$ Ch. 95         SS $SS$ $SS$			21.9	0.4		
38       22.2       21.9       0.3         39       21.8       22.6       0.8         40       21.6       22.0       0.4         42       21.1       21.6       0.5         43       21.4       21.8       0.4         44       21.1       21.8       0.4         44       21.1       21.8       0.4         44       21.1       0.0       45         45       21.4       21.8       0.4         46       21.6       22.4       0.8         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ Worst Adj. Carrier Oelta (dB):       P   18.7   Ch. 95         P Worst Adj. Carrier Delta (dB):       P   1.7 ] Ch. 2       P   3.1   Ch. 95         Max-Min Carrier Delta (dB):       P   7.5   Ch. 68/95       P   9.1   Ch. 67/95         6 Month Delta: PASS   2.0 dB   Ch. 95         SS <td></td> <td></td> <td></td> <td></td> <td></td>						
39       21.8       22.6       0.8         40       21.6       22.0       0.4         42       21.1       21.6       0.5         43       21.4       21.8       0.4         44       21.1       21.1       0.0         45       21.4       21.3       0.4         46       21.6       22.4       0.8         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ Worst Adj. Carrier Oelta (dB): P [1.7] Ch. 95         P [16.7] Ch. 95         Max-Min Carrier Delta (dB): P [7.5] Ch. 68/95       P [9.1] Ch. 67/95         6 Month Delta: PASS [2.0 dB] Ch. 95       P [9.1] Ch. 67/95         SS	37	21.9				
40       21.6       22.0       0.4         42       21.1       21.6       0.5         43       21.4       21.8       0.4         44       21.1       21.1       0.0         45       21.4       21.8       0.4         46       21.4       21.8       0.4         46       21.4       21.8       0.4         46       21.6       22.4       0.8         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 \text{ d}$ Worst Adj. Carrier Delta (dB): P [1.7] Ch. 95         P [40.7] Ch. 95         Max-Min Carrier Delta (dB): P [7.5] Ch. 68/95       P [9.1] Ch. 67/95         6 Month Delta: PASS [2.0 dB] Ch. 95       S		22.2			· · · · · · · · · · · · · · · · · · ·	
42       21.1       21.6       0.5         43       21.4       21.8       0.4         44       21.1       21.1       0.0         45       21.4       21.8       0.4         46       21.6       22.4       0.8         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE $\pm .75 d$ MAX-MIN Carrier Delta (dB):       P [18.7] Ch. 95         P [9.1] Ch. 67/95         6 Month Delta: PASS [2.0 dB] Ch. 95 <td col<="" td=""><td></td><td>21.8</td><td></td><td></td><td>··· · ·</td></td>	<td></td> <td>21.8</td> <td></td> <td></td> <td>··· · ·</td>		21.8			··· · ·
43       21.4       21.8       0.4         44       21.1       21.1       0.0         45       21.4       21.8       0.4         46       21.6       22.4       0.8         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 d         Lowest Visual Carrier (dBmv):         P [18.7] Ch. 95       P [16.7] Ch. 95         Worst Adj. Carrier Delta (dB):       P [1.7] Ch. 2       P [3.1] Ch. 95         Max-Min Carrier Delta (dB):       P [7.5] Ch. 68/95       P [9.1] Ch. 67/95         6 Month Delta:       PASS [2.0 dB] Ch. 95       S					••••••	
44       21.1       21.1       0.0         45       21.4       21.8       0.4         46       21.6       22.4       0.8         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 d         Lowest Visual Carrier (dBmv):         P [18.7] Ch. 95       P [16.7] Ch. 95         Worst Adj. Carrier Delta (dB):       P [1.7] Ch. 2       P [3.1] Ch. 95         Max-Min Carrier Delta (dB):       P [7.5] Ch. 68/95       P [9.1] Ch. 67/95         6 Month Delta:       PASS [2.0 dB] Ch. 95       S		21.4				
45       21.4       21.8       0.4         46       21.6       22.4       0.8         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 d         CURRENT RECORD         Lowest Visual Carrier (dBmv):       P [18.7] Ch. 95       P [16.7] Ch. 95         Worst Adj. Carrier Delta (dB):       P [1.7] Ch. 2       P [3.1] Ch. 95         Max-Min Carrier Delta (dB):       P [7.5] Ch. 68/95       P [9.1] Ch. 67/95         6 Month Delta:       PASS [2.0 dB] Ch. 95       S		the second second second second second second second second second second second second second second second se		and the second sec	····	
46       21.6       22.4       0.8         WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 d         CURRENT RECORD         Lowest Visual Carrier (dBmv):       P [18.7] Ch. 95       P ·[16.7] Ch. 95         Worst Adj. Carrier Delta (dB):       P [1.7] Ch. 2       P [3.1] Ch. 95         Max-Min Carrier Delta (dB):       P [7.5] Ch. 68/95       P [9.1] Ch. 67/95         6 Month Delta:       PASS [2.0 dB] Ch. 95	Fore and The Control of Sector Control of the Control of the Sector Control of the Sector Control of the Contro				····· ·· ·	
WORST CASE MEASUREMENT DATA - WITHIN RATED ACCURACY OF MEASURING DEVICE ± .75 d         CURRENT RECORD       PREVIOUS RECORD         Lowest Visual Carrier (dBmv):       P [18.7] Ch. 95       P · [16.7] Ch. 95         Worst Adj. Carrier Delta (dB):       P [1.7] Ch. 2       P [3.1] Ch. 95         Max-Min Carrier Delta (dB):       P [7.5] Ch. 68/95       P [9.1] Ch. 67/95         6 Month Delta:       PASS [2.0 dB]       Ch. 95	46					
CURRENT RECORD         PREVIOUS RECORD           Lowest Visual Carrier (dBmv):         P [18.7] Ch. 95         P [16.7] Ch. 95           Worst Adj. Carrier Delta (dB):         P [1.7] Ch. 2         P [3.1] Ch. 95           Max-Min Carrier Delta (dB):         P [7.5] Ch. 68/95         P [9.1] Ch. 67/95           6 Month Delta:         PASS [2.0 dB] Ch. 95         SS	$ \begin{array}{r}     43 \\     44 \\     45 \\     46 \\   \end{array} $	21.4 21.1 21.4 21.6	21.8 21.1 21.8 22.4	$\begin{array}{c c} 0.4\\ 0.0\\ 0.4\\ 0.4\\ 0.8\end{array}$		
SS	Lowest Visual ( Worst Adj. Carr	CUR Carrier (dBmv): P [1] ier Delta (dB): P [1]	<u>RENT RECORD</u> 8.7  Ch. 95 7] Ch. 2	PREVIOUS RECORD P  16.7] Ch. 95 P  3.1] Ch. 95	± .75 d	
Registeries	6 Month Delta:	PASS [2.0 dB] Ch. 9	5			
Registeries Without Andrewson						
0	ASS					
	e					

Proof-It 3.0.8 - Ser.# P300A0545

#### Date: 1/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#8 Bartlet Rd Jay

F

CHANN 47	vel.	CURRENT (dBmv)	PREVIOUS (dBm 21.4	v) DELTA (dB) ().2	
47 49		21.6 21.3	22.6	1.3	. n.
50		22.3	23.3	1.0	
51		21.6	21.8	0.2	
52		22.1	22.3	0.2	
54		23.2	21.7	1.5	
55		22.5	22.4	0.1	
56		22.8	23.0	0.2	
57 58		22.5 23.6	23.0	0.6	
59		23.2	23.7	0.5	
60		24.2	23.9	0.3	
61		23.6	23.2	0.4	
62		24.9	24.5	0.4	!
63		24.7	25.3	0.6	
64		25.0	25.1	0.1	
65		25.9	25.2	0.7	
66		26.0	25.7	0.3	
67		25.5	25.8	0.3	
		26.2	25.3	0.9	· ·
70		26.0	25.1	0.9	
72		25.7	24.5	1.2	
73		24.3	24.5	0.2	
74		24.7	24.5	0.2	
75		24.1	24.0	0.1	
76		24.3	23.4	0.9	
78		24.0	22.7	1.3	
WORST CAS	E MEASUREN	IENT DATA - WITHIN RA	· · · · · · · · · ·		75 dB
Worst		er (dBmy): P [18.7] Ch. Delta (dB): P [1.7] Ch. 2	95 P 2 P	[16.7] Ch. 95 [3.1] Ch. 95 [9.1] Ch. 67/95	• •
		SS [2.0 dB] Ch. 95		(2.1) ¢n. 0//23	
ASS					
le					

Proof-It 3.0.8 - Ser.# P300A0545

.....

## Date: 01/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#8 1042 Bartlet Up Jay

CHANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)	
2	20.6	4.3	16.3 13.5	
3 4	20.1	5.3	15.5	
5	19.8	4.6	15.2	
6	20.0	5.5	14.5	
95	18.7	4.6	14.1	
96	20.1	6.0	14.1	
98	<u> </u>	5.7 5.2	<u> </u>	
99	19.5	5.5	14.1	
15	19.9	4.9	15.0	
16	19.1	5.1	14.0	
17	20.3	4.7	15.6	
18	19.6	6.1	13.5	
20	<u>20.7</u> 20.7	6.6	14.1 14.4	
21 22	20.7	6.9	14.4	
7	20.9	6.2	14.0	
8	21.5	4.5	17.0	
9	21.1	6.9	14.2	
10	21.4	7.0	14.4	
11	21.2	6.7	[4.5	
12	21.8	7.3	14.5	
13	20.8 20.7	6.5	14.3	
23	21.4	8.1	13.3	
25	22.2	7.7	14.5	
26	21.7	7.5	14.2	
27	21.7	7.9	13.8	
28	21.7	7.5	14.2	
<u>29</u> 30	21.9 21.7	7.3 7.6	14.6	
30	21.7	7.3	14.1	
32	21.4	7.0	14.4	
33	21.0	6.8	14.2	
34	21.6	7.5	14.1	
35	21.5	7.4	14.1	
36	21.7 21.9	7.1 7.8	<u> </u>	
38	22.2	8.0	14.1	
39	21.8	6.9	14.9	
4()	21.6	7.1	14.5	
42	21.1	6.8	14.3	
43	21.4	7.0	[4,4	
44	21.1 21.4	7.3	13.8 14.3	
45	21.6	7.3	14.3	
WORST CASE ME	ASUREMENT DATA - WITHIN RATED	O ACCURACY OF MEASU	RING DEVICE ± .75 dB	
	Lowest Visual Carrier (dBmv		· ·	
	Worst Upper V/A Ratio (dB):			
	Worst Lower V/A Ratio (dB):			
	Worst Adj. Carrier Delta (dB) Max-Min Carrier Delta (dB):	P [1.7] Ch. 2 P [7.5] Ch. 68/95		
		C [ (] Cit. 00/25		
ACC				
ASS				
ble				

Proof-It 3.0.8 - Ser.# P300A0545

## Date: 01/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#8 1942 Bartlet Up Jay

CHANNEL	VIDEO (dBmv)	AUDIO (dBmv)	RATIO (dB)
47	21.6	7.3	14.3
49	21.3	7.0	14.3
50 51	22.3	6.4	15.9
52	21.6	7.7 7.8	13.9 14.3
54	23.2	8.7	14.5
55	22.5	9.3	13.2
56	22.8	8.4	14.4
57	22.5	9.3	13.2
58	23.6	9.4	14.2
59	23.2	9.6	13.6
60	24.2	10.2	14.0
<u>61</u> 62	23.6	10.7	12.9
63	24.9 24.7	10.9 11.3	<u> </u>
64	25.0	11.5	13.4
65	25.9	11.9	14.1
66	26.0	11.9	14.0
67	25.5	11.7	13.8
68	26.2	11.6	14.6
70	26.0	11.2	14.8
71	25.0	11.2	13.8
72 73	<u>25.7</u> 24.3	10.3	15.4
75	24.3	10.6	13.7 14.5
75	24.1	10.2	14.5
76	24.3	9.2	15.1
78	24.0	9.2	14.8
WORST CASE MEASURE	Lowest Visual Carrier (dB		RING DEVICE ±.75 dB
SS	Worst Upper V/A Ratio (d Worst Lower V/A Ratio (d Worst Adj. Carrier Delta (d Max-Min Carrier Delta (dI	B): P [17.0] Ch. 8 B): P [12.9] Ch. 61' dB): P [1.7] Ch. 2	

# FCC Compliance 76.605(a) - (3), (7), (8), (9)(i), (9)(ii), (11) Proof-lt 3.0.8 - Ser.# P300A0545

## Date: 01/29/2009 Company: Charter Communications Inc. Plattsburgh Test Location: TP#8 Barlett RD Jay

Technician: Bob Greer

CH.	C/N -dBc	CSO -dBc	CTB -dBc	In-Ch (p-v)	Aural Diff kHz	Hum %
4	49.9	68.0	69.0	.70	+0.000	.7
14	48.2	70.1	59.1	.10	+0.000	.7
8	49.9	63.9	56.6	.20	+0.000	.6
9	47.6	68.2	63.6	1.20	+0.100	.8
36	46.2	67.5	56.8	1.20	+0.000	.6
39	48.9	68.8	57.4	1.30	+0.000	.7
44	47.9	74.8	56.3	2.50	+0.000	.7
49	48.6	66.4	52.5	1.60	+0.000	.6
54	48.7	68.7	53.0	2.30	+0.000	.7
66	46.4	59.9	58.7	.90	+0.000	.6
67	47.5	65.7	55.4	1.20	-0.100	.5
116	47.0	56.1	54.0	.80	+0.000	.5

An asterisk indicates a failed measurement.

MEASUREMENT	MEASUREMENT DEVICE	CAL DATE	SERIAL NO.	
CSO/CTB	AGILENT 8591C	07/16/03	4109A04509	
Carrier to Noise	TRILITHIC BANDPASS	07/16/03	200102124	
Hum Modulation	AGILENT 8591C	07/16/03	4109A04509	
Aural Carrier Frequency	AGILENT 8591C	07/16/03	4109A04509	
In-Channel Frequency Response	AGILENT 8591C	07/16/03	4109A04509	

Worst Case Measurement Data					
Carrier to Noise:	(-46.2 dBe)	Pass	Hum Modulation:	(0.8 %)	Pass
Composite Triple Beat:	(-52.5 dBc)	Pass	Aural Frequency Difference	(0.1 kHz)	Pass
Composite Second Orde	er: (-56.1 dBc)	Pass	In-Ch Frequency Response:	(2.5 dB p-v)	Pass

Falcon Cable