

Date: **November 26, 2007**

To: Secretary Brilling

From: Susan Eckhardt

Subject: Technical Specs for DOC# 06-V-0680 are included herewith. They were inadvertently left out when we filed our renewal documents for the Town of Fenton.

Should you have any questions, please contact Susan Eckhardt at 607-644-0025, ext. 7327.

Thank you.

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FCC PROOF OF PERFORMANCE TEST

Binghamton



TIME WARNER

CABLE SYRACUSE DIVISION

JANUARY / FEBRUARY 2007

TIME WARNER CABLE - SYRACUSE DIVISION

FCC Proof - of - Performance Tests

System Name	:	Binghamton		
Plant Mileage	:	1497.4900	As of	: 02/15/2007
Basic Subscribers	:	73000	As of	: 02/15/2007
System Bandwidth	:	550.0000		
Number of Channels Tested	:	9		
Number of Test Points	:	11		
Test Start Date	:	02/15/2007		
Test Completion Date	:	03/14/2007		

TIME WARNER CABLE - SYRACUSE DIVISION

Statement of Qualifications

System Name : Binghamton

Date : 02/15/2007

FCC Testing Summary

**Changes Since Last Proof of
Performance Test**

Moved HSN from Ch.16 to Ch.78 and moved MTV2 to Digital 192
Added TW News 10 to Ch.16
Moved Court-TV from 23 to Ch.68 and removed Fuse off analog (available on Ch.16)
Added TW Sports to Ch.23

Test Results

Tests Comply with FCC specs

Miscellaneous

TIME WARNER CABLE - SYRACUSE DIVISION**System Name** : Binghamton**Date** : 02/15/2007**Sub System Name** :

ACTUAL CHANNEL	CARRIER FREQ	CONV CH.	TYPE	SC("Y")	VITS("Y")	CALL LTR	PROG SOURCE	ACTUAL CHANNEL	CARRIER FREQ	CONV CH.	TYPE	SC("Y")	VITS("Y")	CALL LTR	PROG SOURCE
2	55.2500	2	TV		Y	WBNG	Direct	DD (40)	319.2625	40	TV		Y	COMEDY	Sat
3	61.2500	3	TV		Y	WICZ	Direct	EE (41)	325.2625	41	TV		N	BE1	Sat.
4	67.2500	4	TV		N	PEG	Local	FF (42)	331.2750	42	TV		N	E	Sat.
5	77.2500	5	TV		Y	WBGH	Direct	GG (43)	337.2625	43	TV		N	SPIKE	Sat.
6	83.2500	6	TV		Y	WIVT	Direct	HH (44)	343.2625	44	TV		N	FAMILY	Sat.
A-5 (95)	91.2500							IJ (45)	349.2625	45	TV		N	NICK	Sat.
A-4 (96)	97.2500							JJ (46)	355.2625	46	TV		N	DISNEY	Sat
A-3 (97)	103.2500							KK (47)	361.2625	47	TV		Y	TOON	Sat.
A-2 (98)	109.2750							LL (48)	367.2625	48	TV		N	HALL	Sat.
A-1 (99)	115.2750	99	TV		Y	ShpNBC	Sat.	MM (49)	373.2625	49	TV		N	FWTN	Sat.
A (14)	121.2625	14	TV		N	ClasAD	Ring	NN (50)	379.2625	50	TV		Y	C-SPAN	Sat
B (15)	127.2625	15	TV		Y	QVC	Sat.	OO (51)	385.2625	51	TV		Y	DISC	Sat
C (16)	133.2625	16	TV		N	News10	Ring	PP (52)	391.2625	52	TV		N	TLC	Sat.
D (17)	139.2500	17	TV		Y	CNN	Sat.	QQ (53)	397.2625	53	TV		N	ANIMAL	Sat.
E (18)	145.2500	18	TV		Y	HDLN	Sat	RR (54)	403.2500	54	TV		N	TRAVEL	Sat.
F (19)	151.3210	19	TV		N	MSNBC	Sat.	SS (55)	409.2500	55	TV		N	HIST	Sat.
G (20)	157.2500	20	TV		N	CNBC	Sat	TT (56)	415.2500	56	TV		N	FOOD	Sat.
H (21)	163.2500	21	TV		N	TWC	Sat.	UU (57)	421.2500	57	TV		N	HGTV	Sat.
I (22)	169.2500	22	TV		N	TVGC	Sat.	VV (58)	427.2500	58	TV		N	VH-1	Sat.
7	175.2500	7	TV		Y	WSKG	Direct	WW (59)	433.2500	59	TV		N	MTV	Sat.
8	181.2500	8	TV		Y	WBPN	Direct	XX (60)	439.2500	60	TV		N	CMJ	Sat.
9	187.2500	9	TV		N	ION	Sat.	YY (61)	445.2500	61	TV		N	AMC	Sat.
10	193.2500	10	TV		Y	TBS	Sat.	ZZ (62)	451.2500	62	TV		N	BRAVO	Sat
11	199.2500	11	TV		N	WBX1	Sat	63	457.2500	63	TV		N	TCM	Sat
12	205.2500	12	TV		N	Access	Local	64	463.2500	64	TV		N	SOAP	Sat.
13	211.2500	13	TV		N	TVLND	Sat	65	469.2500	65	TV		N	OXYGEN	Sat.
J (23)	217.2500	23	TV		N	TWSP	Ring	66	475.2500	66	TV		N	WE	Sat.
K (24)	223.2500	24	TV		N	SNY	Sat.	67	481.2500	67	TV		N	BBC	Sat.
L (25)	229.2625	25	TV		N	ESPN	Sat.	68	487.2500	68	TV		N	COURT	Sat.
M (26)	235.2625	26	TV		N	ESPN2	Sat.	69	493.2500	69	TV		N	ESPNC	Sat.
N (27)	241.2625	27	TV		N	SPEED	Sat	70	499.2500	70	TV		N	FIT	Sat
O (28)	247.2625	28	TV		N	FSNY	Sat	71	505.2500	71	TV		N	HLTH	Sat.
P (29)	253.2625	29	TV		N	MSG	Sat	72	511.2500	72	TV		N	STYLE	Sat
Q (30)	259.2625	30	TV		N	GOLF	Sat.	73	517.2500	73	TV		N	PLEX	Sat
R (31)	265.2625	31	TV		N	YES	Sat	74	523.2500	74	TV		N	LMN	Sat.
S (32)	271.2625	32	TV		N	VS	Sat.	75	529.2500	75	TV		N	NGC	Sat.
T (33)	277.2625	33	TV		Y	FNC	Sat.	76	535.2500	76	TV		N	TVSS	Sat
U (34)	283.2625	34	TV		Y	TNT	Sat	77	541.2500						
V (35)	289.2625	35	TV		N	USA	Sat.	78	547.2500	78	TV		Y	HSN	Sat.
W (36)	295.2625	36	TV		N	SciFi	Sat	79	553.2500						
AA (37)	301.2625	37	TV		N	LIFE	Sat.	80	559.2500						
BB (38)	307.2625	38	TV		N	A & E	Sat.	81	565.2500						
CC (39)	313.2625	39	TV		N	FX	Sat								

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Date : 02/15/2007

Date : 02/15/2007

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TIME WARNER CABLE - SYRACUSE DIVISION

System Name : Binghamton

Date : 02/15/2007

Sub System :

Non Video Services

CARRIER FREQ	DESCRIPTION	BANDWIDTH	PROG SOURCE
51.00	Trilithic Pilot	50Khz	Headend
52.00	SST Sweep Pilot	50Khz	Headend
75.75	SST Reverse Pilot	50Khz	Headend
102.75	QPSK Data	1.25Khz	Headend

TIME WARNER CABLE - SYRACUSE DIVISION**System Name** Binghamton**Date** 03/02/2007**Sub System** Montrose**Non Video Services****CARRIER FREQ DESCRIPTION BANDWIDTH PROG SOURCE**

51.00	Inlithic Pilot	50Khz	Headend
52.00	SST Sweep Pilot	50Khz	Headend
75.75	SST Reverse Pilot	50Khz	Headend
102.75	QPSK Data	1.25Khz	Headend

TIME WARNER CABLE - SYRACUSE DIVISION

Statement of Qualifications

System Name : Binghamton

Employee Name : James A. Pratt

Title : Engineer

System : Binghamton

Qualifications :

38.5 Years in the Cable Television Business
3 years in the Broadcast Industry
HE Technical Training Jerrold School Philadelphia PA
Magnavox Technical School Syracuse NY
NY State Cable Commission Technical Seminars
Broome Technical Community College

Employee Name : John Hriciso

Title : Field Technician

System : Binghamton

Qualifications :

30+ Years in the Cable Business
Various in house training

Employee Name : Lawrence Hawke

Title : HE Technician

System : Binghamton

Qualifications :

35+ years in Cable
NCTI courses
various in house training

TIME WARNER CABLE - SYRACUSE DIVISION

Test Equipment Listings

System Name : Binghamton

Date : 02/15/2007

[illegible]

TIME WARNER CABLE - SYRACUSE DIVISION

Terminal Isolation Test

System Name : Binghamton

Date : 02/15/2007

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

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

Four-way - Revision A



	Frequency	Tap Value							
		8	11	14	17	20	23	26	29
Insertion Loss (dB, max)	5	-	3.7	2.2	1.5	1.2	1.1	1.1	1.1
	10	-	3.7	2.2	1.5	1.2	1.1	1.1	1.1
	50	-	3.5	1.7	1.2	0.9	0.8	0.8	0.8
	300	-	4.1	2.5	1.8	1.5	1.4	1.2	1.2
	450	-	4.2	2.7	1.8	1.6	1.5	1.3	1.3
	550	-	4.3	2.8	1.9	1.8	1.5	1.3	1.3
	750	-	4.5	3.2	2.0	1.7	1.5	1.4	1.4
	860	-	4.6	3.3	2.1	1.7	1.5	1.4	1.4
	1000	-	4.7	3.4	2.2	1.8	1.6	1.5	1.5
Tap Loss (±1 dB, max)	5	8.0	11.0	15.0	17.0	20.0	22.5	25.5	28.5
	10	8.0	11.0	15.0	17.0	20.0	22.5	25.5	28.5
	50	8.0	11.0	15.0	17.0	20.0	22.5	25.5	28.5
	300	8.0	11.0	15.0	17.0	20.0	22.5	25.5	28.5
	450	8.0	11.0	15.0	17.0	20.0	22.5	25.5	28.5
	550	8.0	11.5	15.0	17.0	20.0	22.5	25.5	28.5
	750	8.0	11.5	15.0	17.0	20.0	22.5	25.5	28.5
	860	8.0	11.5	15.0	17.0	20.0	22.5	25.5	28.5
	1000	8.0	12.0	15.0	17.0	20.0	22.5	25.5	28.5
Tap-to-Tap Isolation (dB, min)	5	18	18	18	18	18	18	18	18
	750	18	18	18	18	18	18	18	18
	1000	18	18	18	18	18	18	18	18
Out-to-Tap Isolation (dB, min)	5	-	25	25	25	25	35	35	35
	750	-	25	25	25	25	35	35	35
	1000	-	25	25	25	25	35	35	35
Return Loss (dB, min)	5	16	14	13	15	15	15	15	15
	10	14	16	15	16	16	16	16	16
	50	16	16	16	16	16	16	16	16
	750	15	16	16	16	16	16	16	16
	860	16	16	16	16	16	16	16	16
	1000	16	16	16	16	15	15	16	15

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

Product	Model Number	Part Number	Description
Complete Tap Assembly	SAT ST4-8	562742	Multimedia Stretch Tap 4-Way @ 8 dB
	SAT ST4-11	562743	Multimedia Stretch Tap 4-Way @ 11 dB
	SAT ST4-14	562744	Multimedia Stretch Tap 4-Way @ 14 dB
	SAT ST4-17	562745	Multimedia Stretch Tap 4-Way @ 17 dB
	SAT ST4-20	562746	Multimedia Stretch Tap 4-Way @ 20 dB
	SAT ST4-23	562747	Multimedia Stretch Tap 4-Way @ 23 dB
	SAT ST4-26	562748	Multimedia Stretch Tap 4-Way @ 26 dB
	SAT ST4-29	562749	Multimedia Stretch Tap 4-Way @ 29 dB
Faceplate Assembly	SAT STF-4	543485	Multimedia Stretch Tap 4-Way Faceplate Assembly
Directional Coupler Module	SAT STM-0	543487	Multimedia Stretch Tap Module @ 0 dB
	SAT STM-4	562108	Multimedia Stretch Tap Module @ 4 dB
	SAT STM-7	562109	Multimedia Stretch Tap Module @ 7 dB
	SAT STM-10	562110	Multimedia Stretch Tap Module @ 10 dB
	SAT STM-13	562111	Multimedia Stretch Tap Module @ 13 dB
	SAT STM-16	562112	Multimedia Stretch Tap Module @ 16 dB
	SAT STM-19	562113	Multimedia Stretch Tap Module @ 19 dB
	SAT STM-22	562114	Multimedia Stretch Tap Module @ 22 dB
	SAT STM-25	562115	Multimedia Stretch Tap Module @ 25 dB

	Frequency	Tap Value						
		11	14	17	20	23	26	29
Insertion Loss (dB, max)	5	-	3.7	2.2	1.5	1.2	1.1	1.1
	10	-	3.7	2.2	1.5	1.2	1.1	1.1
	50	-	3.5	1.7	1.2	0.9	0.8	0.8
	300	-	4.1	2.9	1.8	1.5	1.4	1.3
	450	-	4.2	3.0	1.8	1.6	1.4	1.3
	550	-	4.3	3.0	1.9	1.6	1.5	1.3
	750	-	4.4	3.0	2.0	1.7	1.5	1.4
	860	-	4.5	3.0	2.1	1.8	1.5	1.5
	1000	-	4.7	3.0	2.2	1.9	1.6	1.6
Tap Loss (±1 dB, max)	5	11.0	14.0	18.0	20.0	23.0	26.0	29.0
	10	11.0	14.5	18.0	20.0	23.0	26.0	29.0
	50	11.0	14.5	18.0	20.0	23.0	26.0	29.0
	300	11.0	14.5	18.0	20.0	23.0	26.0	29.0
	450	11.0	14.5	18.0	20.0	23.0	26.0	29.0
	550	11.0	15.0	18.0	20.0	23.0	26.0	29.0
	750	11.0	15.5	18.0	20.0	23.0	26.0	29.0
	860	11.5	15.5	18.0	20.0	23.0	26.0	29.0
	1000	12.0	16.0	18.0	20.0	23.0	26.0	29.0
Tap-to-Tap Isolation (dB, min)	5	18	18	18	18	18	18	18
	750	18	18	18	18	18	18	18
	1000	18	18	18	18	18	18	18
Out-to-Tap Isolation (dB, min)	5	-	25	25	25	30	35	35
	750	-	25	25	25	30	35	35
	1000	-	25	25	25	30	35	35
Return Loss (dB, min)	5	15	15	13	14	15	14	14
	10	14	16	16	16	16	16	16
	50	16	16	16	16	16	16	16
	750	16	16	16	16	16	16	16
	860	16	16	16	16	16	16	16
	1000	16	16	16	16	16	16	16

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

Product	Model Number	Part Number	Description
<i>Complete Tap Assembly</i>	SAT ST8-11	562751	Multimedia Stretch Tap 8-Way @ 11 dB
	SAT ST8-14	562752	Multimedia Stretch Tap 8-Way @ 14 dB
	SAT ST8-17	562753	Multimedia Stretch Tap 8-Way @ 17 dB
	SAT ST8-20	562754	Multimedia Stretch Tap 8-Way @ 20 dB
	SAT ST8-23	562755	Multimedia Stretch Tap 8-Way @ 23 dB
	SAT ST8-26	562756	Multimedia Stretch Tap 8-Way @ 26 dB
	SAT ST8-29	562757	Multimedia Stretch Tap 8-Way @ 29 dB
<i>Faceplate Assembly</i>	SAT STF-8	543486	Multimedia Stretch Tap 8-Way Faceplate Assembly
<i>Directional Coupler Module</i>	SAT STM-0	543487	Multimedia Stretch Tap Module @ 0 dB
	SAT STM-4	562108	Multimedia Stretch Tap Module @ 4 dB
	SAT STM-7	562109	Multimedia Stretch Tap Module @ 7 dB
	SAT STM-10	562110	Multimedia Stretch Tap Module @ 10 dB
	SAT STM-13	562111	Multimedia Stretch Tap Module @ 13 dB
	SAT STM-16	562112	Multimedia Stretch Tap Module @ 16 dB
	SAT STM-19	562113	Multimedia Stretch Tap Module @ 19 dB
	SAT STM-22	562114	Multimedia Stretch Tap Module @ 22 dB
	SAT STM-25	562115	Multimedia Stretch Tap Module @ 25 dB

	Frequency	Tap Value								
		4	8	11	14	17	20	23	26	29
Insertion Loss (dB, max)	5	—	3.6	2.2	1.5	1.1	1.1	1.1	1.1	1.1
	10	—	3.6	2.2	1.5	1.1	1.1	1.1	1.1	1.1
	50	—	3.5	1.7	1.2	0.9	0.8	0.8	0.8	0.8
	300	—	4.1	2.2	1.8	1.5	1.2	1.2	1.2	1.2
	450	—	4.3	2.7	1.9	1.5	1.4	1.4	1.4	1.4
	550	—	4.1	2.8	2.0	1.8	1.4	1.4	1.4	1.4
	750	—	4.4	3.0	2.1	1.8	1.6	1.4	1.4	1.4
	860	—	4.6	3.2	2.1	1.9	1.6	1.4	1.4	1.4
	1000	—	4.8	3.4	2.2	2.0	1.6	1.5	1.5	1.5
Tap Loss (±1 dB, max)	5	4.0	8.0	11.0	13.5	17.0	19.0	22.5	25.5	29.0
	10	4.0	8.0	11.0	13.5	17.0	19.0	22.5	25.0	29.0
	50	4.0	8.0	11.0	13.5	17.0	19.0	22.5	25.0	29.0
	300	4.0	8.0	11.0	13.5	17.0	19.0	22.5	25.0	29.0
	450	4.0	8.0	11.0	13.5	17.0	19.0	22.5	25.0	29.0
	550	4.0	8.0	11.0	13.5	17.0	19.0	22.5	25.0	29.0
	750	4.0	8.0	11.0	13.5	17.0	19.0	22.5	25.0	29.0
	860	4.0	8.0	11.0	13.5	17.0	19.0	22.5	25.0	29.0
	1000	4.5	8.0	11.0	13.5	17.0	19.0	22.5	25.0	29.0
Tap-to Tap Isolation (dB, min)	5	18	18	18	18	18	18	18	18	18
	750	18	18	18	18	18	18	18	18	18
	1000	18	18	18	18	18	18	18	18	18
Out-to-Tap Isolation (dB, min)	5	—	20	20	20	25	25	35	35	35
	750	—	20	20	25	25	25	35	35	35
	1000	—	20	20	25	25	25	35	35	35
Return Loss (dB, min)	5	16	15	13	13	15	15	15	15	15
	10	16	16	16	16	16	16	16	16	16
	50	16	16	16	16	16	16	16	16	16
	750	14	16	16	16	16	16	16	16	16
	860	16	16	16	16	16	16	16	16	16
	1000	16	16	16	16	16	16	16	16	16

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

Product	Model Number	Part Number	Description
Complete Tap Assembly	SAT ST2-4	562732	Multimedia Stretch Tap 2-Way @ 4 dB
	SAT ST2-8	562733	Multimedia Stretch Tap 2-Way @ 8 dB
	SAT ST2-11	562734	Multimedia Stretch Tap 2-Way @ 11 dB
	SAT ST2-14	562735	Multimedia Stretch Tap 2-Way @ 14 dB
	SAT ST2-17	562736	Multimedia Stretch Tap 2-Way @ 17 dB
	SAT ST2-20	562737	Multimedia Stretch Tap 2-Way @ 20 dB
	SAT ST2-23	562738	Multimedia Stretch Tap 2-Way @ 23 dB
	SAT ST2-26	562739	Multimedia Stretch Tap 2-Way @ 26 dB
	SAT ST2-29	562740	Multimedia Stretch Tap 2-Way @ 29 dB
Faceplate Assembly	SAT STF-2	543484	Multimedia Stretch Tap 2-Way Faceplate Assembly
Directional Coupler Module	SAT STM2-0	543487	Multimedia Stretch Tap Module @ 0 dB
	SAT STM2-4	562108	Multimedia Stretch Tap Module @ 4 dB
	SAT STM2-7	562109	Multimedia Stretch Tap Module @ 7 dB
	SAT STM2-10	562110	Multimedia Stretch Tap Module @ 10 dB
	SAT STM2-13	562111	Multimedia Stretch Tap Module @ 13 dB
	SAT STM2-16	562112	Multimedia Stretch Tap Module @ 16 dB
	SAT STM2-19	562113	Multimedia Stretch Tap Module @ 19 dB
	SAT STM2-22	562114	Multimedia Stretch Tap Module @ 22 dB

9800 Series Eight-Way Multi-Taps

Worst Case Specifications*

	9812	9815	9818	9821	9824	9827	9830	9833	9836	Units
Tap Value	12.0	15.5	18.0	21.0	24.0	27.0	30.0	33.0	35.0	dB
Bandwidth	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	MHz
Color Code	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	Brown	
Tolerance										
10-19 MHz	1.7	2.0	1.5	2.5	2.5	2.5	2.5	2.5	2.5	± dB
20-899 MHz	1.8	2.0	1.5	1.5	1.5	1.5	1.5	2.1	1.8	± dB
900-1000 MHz	2.3	2.5	1.9	2.4	2.1	2.1	1.9	1.8	2.3	± dB
Insertion Loss (min)										
10 MHz	—	3.8	1.9	1.2	1.0	0.8	0.5	0.5	0.5	dB
30 MHz	—	3.5	1.5	1.0	0.9	0.7	0.4	0.4	0.4	dB
54 MHz	—	3.5	1.6	1.0	0.8	0.7	0.4	0.4	0.4	dB
112 MHz	—	4.0	1.9	1.2	0.9	0.8	0.6	0.6	0.6	dB
150 MHz	—	4.0	1.9	1.2	0.9	0.8	0.6	0.6	0.6	dB
186 MHz	—	4.1	2.0	1.3	1.0	0.8	0.6	0.6	0.6	dB
222 MHz	—	4.1	2.0	1.3	1.0	0.8	0.6	0.6	0.6	dB
330 MHz	—	4.2	2.1	1.4	1.0	0.8	0.6	0.6	0.6	dB
400 MHz	—	4.3	2.2	1.4	1.0	0.8	0.7	0.7	0.7	dB
450 MHz	—	4.4	2.2	1.4	1.0	0.8	0.7	0.7	0.7	dB
550 MHz	—	4.5	2.3	1.3	1.1	0.9	0.8	0.8	0.8	dB
600 MHz	—	4.7	2.4	1.4	1.1	1.0	0.9	0.9	0.9	dB
750 MHz	—	5.1	2.8	1.6	1.3	1.2	1.2	1.2	1.2	dB
860 MHz	—	5.3	3.2	1.8	1.6	1.3	1.4	1.4	1.4	dB
1000 MHz	—	5.4	3.9	2.3	1.8	1.4	1.4	1.4	1.4	dB
Flatness (min)										
10-1000 MHz	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	± dB
In-Out Isolation (min)										
10-29 MHz	—	21	24	27	30	34	34	36	38	dB
30-749 MHz	—	27	30	32	34	38	40	42	44	dB
750-899 MHz	—	25	28	30	33	36	38	40	41	dB
900-1000 MHz	—	25	28	28	33	34	36	38	39	dB
Tap-to-Tap Isolation (min)										
10-29 MHz	20	20	20	20	20	20	20	20	20	dB
30-449 MHz	25	25	25	25	25	25	25	25	25	dB
450-749 MHz	23	23	23	23	23	23	23	23	23	dB
750-1000 MHz	20	20	20	20	20	20	20	20	20	dB
Return Loss In (min)										
10-29 MHz	17	17	17	17	17	17	17	17	17	dB
30-599 MHz	18	18	18	18	18	18	18	18	18	dB
600-899 MHz	17	17	17	17	17	17	17	17	17	dB
900-1000 MHz	16	16	16	16	16	16	16	16	16	dB
Return Loss Out (min)										
10-29 MHz	—	17	17	17	17	17	17	17	17	dB
30-599 MHz	—	18	18	18	18	18	18	18	18	dB
600-899 MHz	—	17	17	17	17	17	17	17	17	dB
900-1000 MHz	—	16	16	16	16	16	16	16	16	dB
Return Loss Tap (min)										
10-29 MHz	16	16	16	16	16	16	16	16	16	dB
30-599 MHz	18	18	18	18	18	18	18	18	18	dB
600-1000 MHz	16	16	16	16	16	16	16	16	16	dB
Hum Modulation @ 8 amps (min)										
10-49 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	dB
50-599 MHz	—	-70	-70	-70	-70	-70	-70	-70	-70	dB
600-749 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	dB
750-1000 MHz	—	-60	-60	-60	-60	-60	-60	-60	-60	dB
T Isolation										
nl	0	0	0	0	0	0	0	0	0	amps
Surge Rating	IEEE 587 Class B 2500 Volts									

*All specifications are subject to change without notice.

9400 Series Four-Way Multi-Taps

Vorst Case Specifications*

	9408	9411	9414	9417	9420	9423	9426	9429	9432	9435	Units
Tap Value	8.0	11.5	14.5	17.0	20.0	23.0	26.0	29.0	32.0	35.0	dB
Bandwidth	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	MHz
Color Code	Orange	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	Brown	
Tolerance											
10-19 MHz	1.5	1.5	1.5	2.1	1.9	2.2	2.5	2.5	2.3	1.9	± dB
20-899 MHz	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	± dB
900-1000 MHz	1.5	2.5	2.3	2.2	2.0	1.9	1.7	1.6	1.8	2.0	± dB
Insertion Loss (max)											
10 MHz	—	3.6	1.9	1.2	1.0	0.8	0.5	0.4	0.4	0.4	dB
30 MHz	—	3.5	1.5	0.9	0.8	0.7	0.4	0.3	0.3	0.3	dB
54 MHz	—	3.5	1.5	0.9	0.8	0.7	0.4	0.3	0.3	0.3	dB
112 MHz	—	4.0	1.8	1.0	1.0	0.8	0.6	0.5	0.6	0.6	dB
150 MHz	—	4.1	1.8	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
186 MHz	—	4.1	1.8	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
222 MHz	—	4.2	1.8	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
330 MHz	—	4.3	1.9	1.0	1.0	0.9	0.6	0.6	0.6	0.6	dB
400 MHz	—	4.3	2.0	1.1	1.1	0.9	0.7	0.7	0.7	0.7	dB
450 MHz	—	4.3	2.0	1.1	1.1	0.9	0.7	0.7	0.7	0.7	dB
550 MHz	—	4.4	2.1	1.2	1.1	0.9	0.7	0.7	0.7	0.7	dB
600 MHz	—	4.7	2.4	1.4	1.1	1.0	0.8	0.8	0.8	0.8	dB
750 MHz	—	5.1	2.9	1.6	1.4	1.3	1.1	1.1	1.1	1.1	dB
850 MHz	—	5.2	3.3	1.8	1.6	1.5	1.2	1.2	1.2	1.2	dB
1000 MHz	—	5.4	4.0	2.2	1.8	1.6	1.4	1.3	1.3	1.3	dB
Flatness (max)											
10-1000 MHz	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	± dB
p-to-Out Isolation (min)											
10-29 MHz	—	20	21	22	27	30	34	34	36	38	dB
30-749 MHz	—	24	27	30	33	36	38	40	42	44	dB
750-899 MHz	—	22	25	28	31	34	36	38	40	42	dB
900-1000 MHz	—	22	25	28	31	34	36	38	40	42	dB
Tap-to-Tap Isolation (min)											
10-29 MHz	20	20	20	20	20	20	20	20	20	20	dB
30-749 MHz	25	25	25	25	25	25	25	25	25	25	dB
450-749 MHz	23	23	23	23	23	23	23	23	23	23	dB
750-1000 MHz	20	20	20	20	20	20	20	20	20	20	dB
Return Loss In (min)											
10-29 MHz	17	17	17	17	17	17	17	17	17	17	dB
30-599 MHz	18	18	18	18	18	18	18	18	18	18	dB
600-899 MHz	17	17	17	17	17	17	17	17	17	17	dB
900-1000 MHz	16	16	16	16	16	16	16	16	16	16	dB
Return Loss Out (min)											
10-29 MHz	—	17	17	17	17	17	17	17	17	17	dB
30-599 MHz	—	18	18	18	18	18	18	18	18	18	dB
600-899 MHz	—	17	17	17	17	17	17	17	17	17	dB
900-1000 MHz	—	16	16	16	16	16	16	16	16	16	dB
Return Loss Tap (min)											
10-29 MHz	16	16	16	16	16	16	16	16	16	16	dB
30-599 MHz	18	18	18	18	18	18	18	18	18	18	dB
600-1000 MHz	16	16	16	16	16	16	16	16	16	16	dB
Hum Modulation @ 8 amps (min)											
10-19 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
50-599 MHz	—	-70	-70	-70	-70	-70	-70	-70	-70	-70	dB
600-749 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
750-1000 MHz	—	-60	-60	-60	-60	-60	-60	-60	-60	-60	dB
RF Isolation											
ent	0	8	8	8	8	8	8	8	8	8	amps
Balance											

Exceeds FCC requirements

IEEE 587 Class B, 2500 Volts

*All specifications are subject change without notice.

9200 Series Two-Way Multi-Taps

Worst Case Specifications*

	9204	9208	9211	9214	9217	9220	9223	9226	9229	9232	Units
Tap Value	4.0	8.5	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	dB
Bandwidth	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	10-1000	MHz
Color Code	Black	Orange	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	
Tolerance											
10-19 MHz	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	2.5	± dB
20-899 MHz	1.5	2.0	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.8	± dB
900-1000 MHz	2.0	2.0	1.5	2.0	1.6	1.7	1.7	2.0	2.0	2.0	± dB
Insertion Loss (max)											
10 MHz	—	3.6	1.9	1.0	1.0	0.8	0.5	0.5	0.4	0.4	dB
30 MHz	—	3.1	1.5	0.8	0.8	0.7	0.5	0.4	0.3	0.3	dB
54 MHz	—	3.3	1.5	0.8	0.8	0.7	0.4	0.4	0.3	0.3	dB
112 MHz	—	3.3	1.8	1.0	0.9	0.8	0.5	0.5	0.5	0.5	dB
150 MHz	—	3.3	1.8	1.0	0.9	0.8	0.5	0.5	0.5	0.5	dB
186 MHz	—	3.4	1.9	1.0	0.9	0.8	0.5	0.5	0.5	0.5	dB
222 MHz	—	3.5	1.9	1.0	1.0	0.8	0.5	0.5	0.5	0.5	dB
330 MHz	—	3.8	2.0	1.0	1.0	0.8	0.6	0.6	0.5	0.6	dB
400 MHz	—	3.7	2.1	1.1	1.0	0.9	0.7	0.7	0.6	0.6	dB
450 MHz	—	3.8	2.1	1.1	1.0	0.9	0.7	0.7	0.6	0.6	dB
550 MHz	—	3.9	2.1	1.2	1.1	0.9	0.7	0.7	0.7	0.7	dB
600 MHz	—	4.1	2.4	1.4	1.2	1.0	0.8	0.8	0.8	0.8	dB
750 MHz	—	4.7	3.0	1.6	1.4	1.2	1.0	1.0	0.9	0.9	dB
860 MHz	—	5.0	3.5	1.8	1.6	1.4	1.2	1.2	1.1	1.1	dB
1000 MHz	—	5.5	4.1	2.0	1.8	1.6	1.4	1.3	1.3	1.3	dB
Flatness (max)											
10-1000 MHz	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	± dB
In-Out Isolation (min)											
10-29 MHz	—	20	20	20	24	29	30	34	34	36	dB
30-749 MHz	—	22	24	26	30	33	36	38	40	42	dB
750-899 MHz	—	20	22	25	28	31	34	36	38	40	dB
900-1000 MHz	—	20	22	24	28	31	34	36	38	40	dB
Tap-to-Tap Isolation (min)											
10-29 MHz	20	20	20	20	20	20	20	20	20	20	dB
30-449 MHz	25	25	25	25	25	25	25	25	25	25	dB
450-749 MHz	23	23	23	23	23	23	23	23	23	23	dB
750-1000 MHz	20	20	20	20	20	20	20	20	20	20	dB
Return Loss In (min)											
10-29 MHz	17	17	17	17	17	17	17	17	17	17	dB
30-599 MHz	18	18	18	18	18	18	18	18	18	18	dB
600-899 MHz	17	17	17	17	17	17	17	17	17	17	dB
900-1000 MHz	16	16	16	16	16	16	16	16	16	16	dB
Return Loss Out (min)											
10-29 MHz	—	17	17	17	17	17	17	17	17	17	dB
30-599 MHz	—	18	18	18	18	18	18	18	18	18	dB
600-899 MHz	—	17	17	17	17	17	17	17	17	17	dB
900-1000 MHz	—	16	16	16	16	16	16	16	16	16	dB
Return Loss Tap (min)											
10-29 MHz	16	16	16	16	16	16	16	16	16	16	dB
30-599 MHz	18	18	18	18	18	18	18	18	18	18	dB
600-1000 MHz	16	16	16	16	16	16	16	16	16	16	dB
Hum Modulation @ 8 amps (max)											
10-49 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
50-599 MHz	—	-70	-70	-70	-70	-70	-70	-70	-70	-70	dB
600-749 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
750-1000 MHz	—	-60	-60	-60	-60	-60	-60	-60	-60	-60	dB

Exceeds FCC requirements

Isolation
 nL (per tap) 0 8 8 8 8 8 8 8 8 8 8 amps
 S Balun IEEE 587 Class B 2500 Volts

*All specifications are subject to change without notice.

COMPARE EAGLE'S ELECTRICAL SPECIFICATIONS WITH THOSE OF OTHER MANUFACTURER

2-WAY

VALUE	8	11	14	17	20	23	26	29	32	
MODEL	EC2-504	EC2-508	EC2-511	EC2-514	EC2-517	EC2-520	EC2-523	EC2-526	EC2-529	EC2-532
COLOR CODE	pink	orange	gold	white	black	green	purple	yellow	red	silver
TAP LOSS 5-500	4 ± 1	8 ± 1	11 ± 1	14 ± 1	17 ± 1	20 ± 1	23 ± 1	26 ± 1	29 ± 1	32 ± 1
INSERTION LOSS										
5 MHZ	T	2.3	1.3	.8	.5	.4	.3	.3	.3	.3
300 MHZ	T	2.8	1.5	.8	.6	.5	.4	.4	.4	.4
400 MHZ	T	3.2	1.8	1.0	.8	.7	.5	.5	.5	.5
450 MHZ	T	3.4	1.9	1.1	.9	.8	.6	.6	.6	0.6
500 MHZ	T	3.7	2.2	1.3	1.2	1.1	0.9	0.9	0.9	0.9
ISOLATION-										
out to tip										
5 MHZ	-	28	30	30	34	40	43	46	49	52
10 MHZ	-	28	30	32	34	40	43	46	49	53
300 MHZ	-	28	30	32	34	38	41	44	47	50
400 MHZ	-	26	28	30	33	36	41	44	47	47
450 MHZ	-	23	25	27	29	32	35	38	41	44
500 MHZ	-	17	20	22	26	29	32	35	38	41

8-WAY

VALUE	11	14	17	20	23	26	29	32
MODEL	EC8-511	EC8-514	EC8-517	EC8-520	EC8-523	EC8-526	EC8-529	EC8-532
COLOR CODE	gold	white	black	green	purple	yellow	red	ill
TAP LOSS 5-500	11 ± 1	14 ± 1	17 ± 1	20 ± 1	23 ± 1	26 ± 1	29 ± 1	32
INSERTION LOSS								
5 MHz	T	2.5	1.4	.8	.6	.5	.4	.4
300 MHz	T	2.8	1.5	.8	.6	.5	.4	.4
400 MHz	T	3.2	1.8	1.0	.8	.7	.5	.5
450 MHz	T	3.4	1.9	1.1	.9	.8	.6	.6
500 MHz	T	4.0	2.2	1.3	1.2	1.1	.9	.6
ISOLATION-								
out to tip								
5 MHz	-	37	34	34	43	46	49	52
10 MHz	-	33	35	37	43	46	49	53
300 MHz	-	33	35	37	41	44	47	50
400 MHz	-	31	33	35	38	41	44	47
450 MHz	-	28	30	32	35	38	41	44
500 MHz	-	23	26	29	32	35	38	41

4-WAY

VALUE	8	11	14	17	20	23	26	29	32	35
MODEL	EC4-508	EC4-511	EC4-514	EC4-517	EC4-520	EC4-523	EC4-526	EC4-529	EC4-532	EC4-535
COLOR CODE	orange	gold	white	black	green	purple	yellow	red	silver	blue
TAP LOSS 5-500	8 ± 1	11 ± 1	14 ± 1	17 ± 1	20 ± 1	23 ± 1	26 ± 1	29 ± 1	32 ± 1	35 ± 1
INSERTION LOSS										
5 MHz	T	2.3	1.3	.8	.5	.4	.3	.3	.3	.3
300 MHz	T	2.8	1.5	.8	.6	.5	.4	.4	.4	.4
400 MHz	T	3.2	1.8	1.0	.8	.7	.5	.5	.5	.5
450 MHz	T	3.4	1.9	1.1	.9	.8	.6	.6	.6	0.6
500 MHz	T	3.7	2.2	1.3	1.2	1.1	0.9	0.9	0.9	0.9
ISOLATION-										
out to tip										
5 MHz	-	30	32	32	40	43	46	49	52	55
10 MHz	-	30	32	34	40	43	46	49	52	55
300 MHz	-	30	32	34	38	41	44	47	50	53
400 MHz	-	28	30	32	35	38	41	44	47	50
450 MHz	-	23	25	27	29	32	35	38	41	44
500 MHz	-	17	20	22	26	29	32	35	38	41

COMMON SPECIFICATIONS 2, 4, 8-WAY TAPS

TAP-TO-TAP

5 MHz through 400 MHz - 30 db
500 MHz - 20 db

RETURN LOSS

IN

5 MHz through 400 MHz - 20 db
500 MHz - 18 db

OUT

5 MHz through 400 MHz - 20 db
500 MHz - 18 db

TAP

5 MHz - 18 db
10 MHz through 400 MHz - 20 db
500 MHz - 18 db

Power Passing Capability - 6 amps RMS
HUM Modulation - 75 db at 8 amps

TIME WARNER CABLE - SYRACUSE DIVISION

Converter and Trap Specifications

System Name : Binghamton

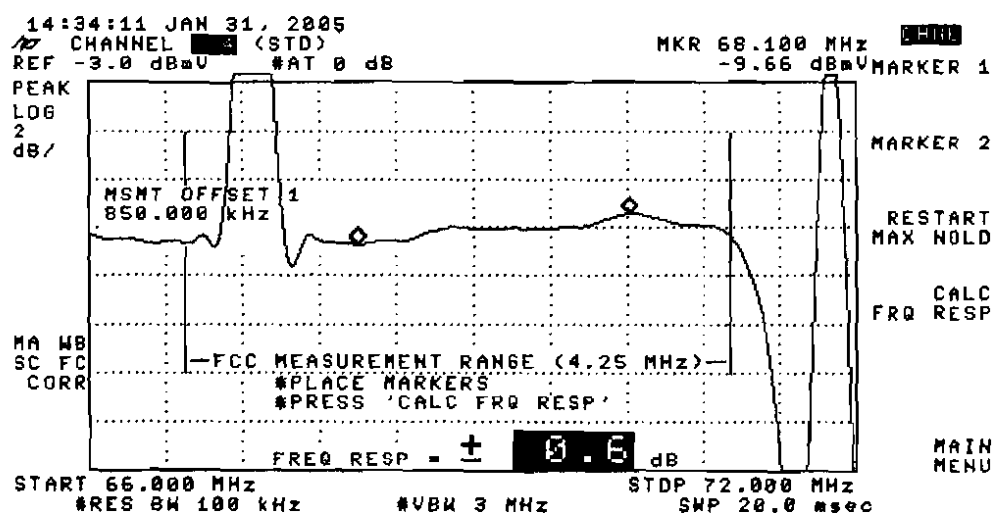
Date : 02/15/2007

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

Instructions:

Attach a copy of the manufacturer's specifications covering all converters used in the system. The specification sheet must show the converters carrier- to- noise (C/N) and distortion figures. Attach a copy of the manufacturer's specifications covering all traps that are in use in the cable plant. This should include basic traps, individual channel traps, high pass filters, etc.

In-Channel Frequency Response Taken Through a SA Explorer 8300 Digital Converter



THE RESPONSE SHOWN IS FROM CH. 32 (Analog)

EXPLORER[®] 2000

Digital Home Communications Terminal

Appendix B Specifications

Overview

Introduction

This appendix provides the specifications for the EXPLORER 2000 Digital Home Communications Terminal (DHCT), and the remote control.

In this Appendix

This appendix contains the following topics.

Topic	See Page
EXPLORER 2000 DHCT Specifications	B-2
Remote Control Specifications	B-11

EXPLORER 2000 DHCT Specifications

Introduction

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

Electrical Overstress Protection

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

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

RF and Baseband Output Performance

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

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

Frequency Resolution

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

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

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Power

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

Analog Channel RF Input

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

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Digital Channel Input

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

RF Input Levels

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

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Digital Audio

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

Computer Generated Audio

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

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

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Baseband Audio Output

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

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Baseband Video Output

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

RF Output

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

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

S-Video Output

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

Forward Control Channel RF Input

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

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Reverse Control and Interactive Channel RF Output

Item	Specification
Modulation technique	Differential QPSK
Frequency	8 MHz to 26.5 MHz
Channel bandwidth	1 MHz
Channel step size	50 kHz
Forward error correction	Shortened Reed Solomon (59,53), T=3
Mode	Burst mode
Transmission rate	256 Kbps or 1.544 Mbps (maximum burst rate)
Transmission format	53 byte ATM cells
Channel sharing protocol	Slotted ALOHA, TDMA and Reservation
Maximum RF output level	Variable +55 dBm VRMS minimum
C/N ₀ , 2 MHz from carrier (Output level >40 dbm VRMS)	120 dB/Hz
Spurious output (5-42 MHz)	-45 dBC
Channel tuning time	< 5 mS

Memory Configuration

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

Continued on next page

EXPLORER 2000 DHCT Specifications, Continued

Eagle Graphics/Video Processing Specifications

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

Environmental Specifications

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

Regulatory Specifications

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

Remote Control Specifications

Introduction

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

Remote Control Specifications

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

ESN* Single Channel Negative Traps

Typical Response

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

*Patents #5148133, 5168251

Trap: Length is 3.58" / Diameter .825 / Specifications subject to change without notice



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ETN* MICRO-SERIES Single Channel Negative Traps

Typical Response

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

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



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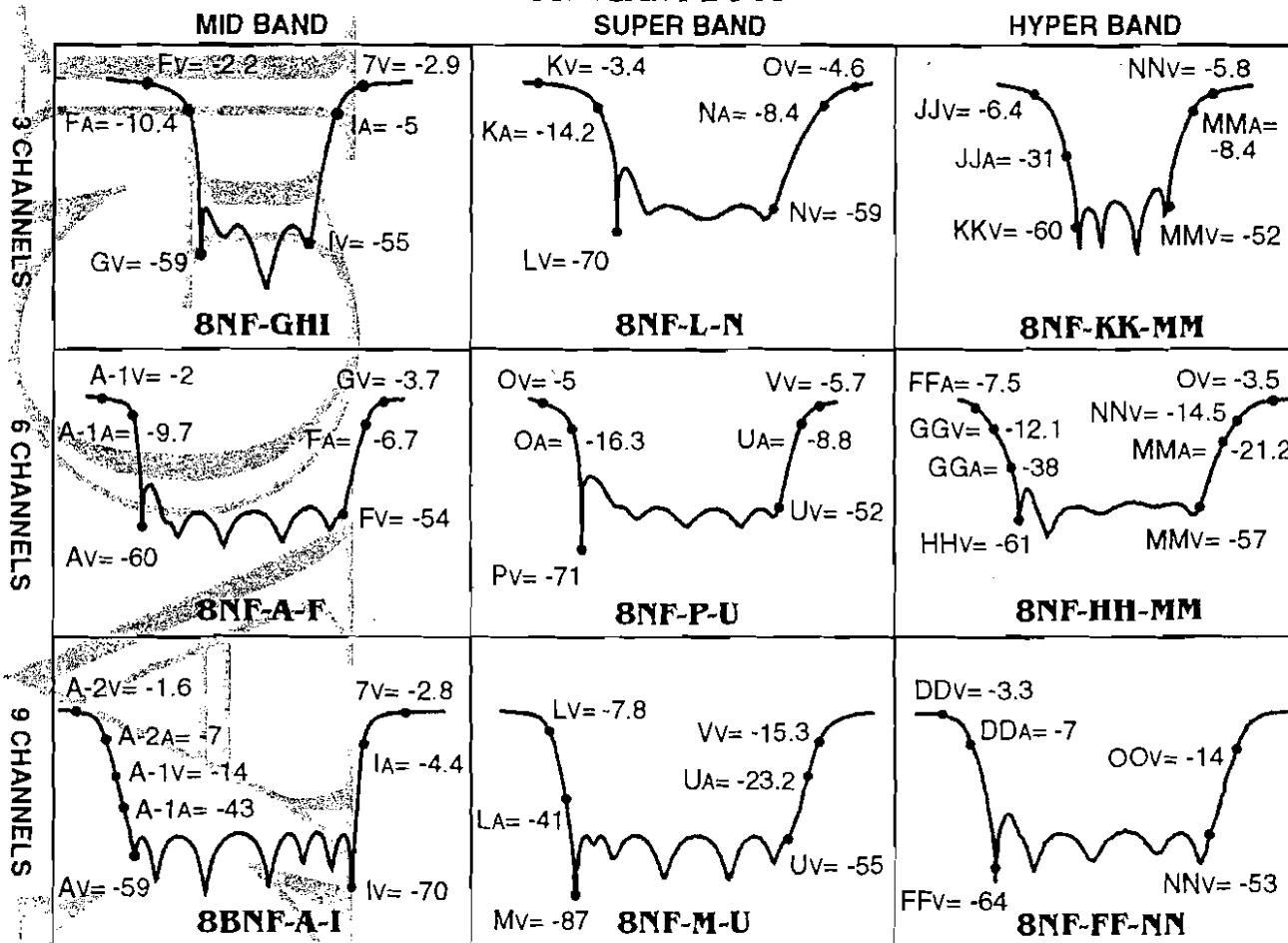
Tier Traps

Eagle Comtronics, Inc., a Trap and Filter Manufacturing Company, with headquarters in Clay, New York, invented the widely accepted cylindrical trap format. We have successfully supplied these products to the Cable Television Industry for better than 20 years. Eagle has pioneered the Tier Traps as well and leads the industry in performance with the sharpest slopes, fewest bumper channels, and the largest number of designs. This is backed up with an astounding 98 percent "on-time" delivery performance. Our experienced sales staff will assist you in trap selections, free trap samples and plots of your next tiering assignment.



Eagle Six & Eight Pole Tier Traps

TYPICAL PLOTS



Tier Trap Features:

- Improved Patent Pending Moisture and Environmental Stability.
- Over 700 current designs to select from.
- Fewer bumper channels required because of extremely sharp slopes.
- Permanent Channel Markings.
- four, six, eight, twelve and sixteen pole units available.

System M (NTSC, PAL M, PAL N)				Typical Response in dB		
Channel		Video Carrier (MHz)	Decoding Frequency (MHz)	Audio Carrier (MHz)	EMN -CH L.A.S.	EMD -CH Upper Video Loss
2	2	55.25	57.5	59.75	~	-0.7
3	3	61.25	63.5	65.75	-2.7	-0.7
4	4	67.25	69.5	71.75	-3.0	-0.7
5	5	77.25	79.5	81.75	-0.5	-1.0
6	6	83.25	85.5	87.75	-3.5	-1.0
A-5	95	91.25	93.5	95.75	-4.0	-1.0
A-4	96	97.25	99.5	101.75	-4.1	-1.0
A-3	97	103.25	105.5	107.75	-4.2	-1.0
A-2	98	109.25	111.5	113.75	-4.3	-1.0
A-1	99	115.25	117.5	119.75	-4.4	-1.0
A	14	121.25	123.5	125.75	-4.5	-1.0
B	15	127.25	129.5	131.75	-4.7	-1.0
C	16	133.25	135.5	137.75	-5.0	-1.0
D	17	139.25	141.5	143.75	-5.3	-1.0
E	18	145.25	147.5	149.75	-5.5	-1.2
F	19	151.25	153.5	155.75	-5.7	-1.2
G	20	157.25	159.5	161.75	-5.9	-1.2
H	21	163.25	165.5	167.75	-6.1	-1.2
I	22	169.25	171.5	173.75	-6.4	-1.2
7	7	175.25	177.5	179.75	-6.6	-1.2
8	8	181.25	183.5	185.75	-6.8	-1.2
9	9	187.25	189.5	191.75	-7.0	-1.2
10	10	193.25	195.5	197.75	-7.3	-1.5
11	11	199.25	201.5	203.75	-7.5	-1.5
12	12	205.25	207.5	209.75	-7.7	-1.5
13	13	211.25	213.5	215.75	-7.9	-1.5
J	23	217.25	219.5	221.75	-8.1	-1.5
K	24	223.25	225.5	227.75	-8.3	-1.5
L	25	229.25	231.5	231.75	-8.6	-1.5
M	26	235.25	237.5	239.75	-8.9	-1.5
N	27	241.25	243.5	245.75	-9.1	-1.7
O	28	247.25	249.5	251.75	-9.4	-1.7
P	29	253.25	255.5	257.75	-9.6	-1.7
Q	30	259.25	261.5	263.75	-9.8	-1.7
R	31	265.25	267.5	269.75	-10.1	-1.7
S	32	271.25	273.5	275.75	-10.4	-1.7
T	33	277.25	279.5	281.75	-10.7	-1.7
U	34	283.25	285.5	287.75	-11.1	-1.7
V	35	289.25	291.5	293.75	-11.5	-1.7
W	36	295.25	297.5	299.75	-11.9	-1.7
AA	37	301.25	303.5	305.75	-12.3	-1.9
BB	38	307.25	309.5	311.75	-12.6	-1.9
CC	39	313.25	315.5	317.75	-12.8	-1.9
DD	40	319.25	321.5	323.75	-13.0	-1.9
EE	41	325.25	327.5	329.75	-13.2	-1.9
FF	42	331.25	333.5	335.75	-13.4	-1.9
GG	43	337.25	339.5	341.75	-13.6	-1.9
HH	44	343.25	345.5	347.75	-13.8	-2.1
II	45	349.25	351.5	353.75	-14.0	-2.1
JJ	46	355.25	357.5	359.75	-14.2	-2.1
KK	47	361.25	363.5	365.75	-14.4	-2.1
LL	48	367.25	369.5	371.75	-14.6	-2.1
MM	49	373.25	375.5	377.75	-14.8	-2.1
NN	50	379.25	381.5	383.75	-15.0	-2.1
OO	51	385.25	387.5	389.75	-15.2	-2.1
PP	52	391.25	393.5	395.75	-15.4	-2.1
QQ	53	397.25	399.5	401.75	-15.6	-2.1
RR	54	403.25	405.5	407.75	-15.9	-2.1

Specifications subject to change without notice.

System M Typical Response

EMN-CH Negative
EMD-CH Positive

Single Channel
Notch Filters


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Eagle Comtronics, Inc.

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ETD* MICRO-SERIES Single Channel Decoding Filters

Typical Response

MODEL	CHANNEL		NOTCH DEPTH	VIDEO LOSS***	HIGH FREQUENCY LOSS
ETD-2*	2	2	-80dB	-1.5 dB	-2.5dB @ 800 MHz
ETD-3	3	3	-80dB	-1.7 dB	-2.5dB @ 860 MHz
ETD-4	4	4	-80dB	-1.8 dB	-2.5dB @ 860 MHz
ETD-5	5	5	-80dB	-1.9 dB	-2.5dB @ 860 MHz
ETD-6	6	6	-80dB	-2.0 dB	-2.5dB @ 860 MHz
ETD-A-2	A-2	98	-80dB	-3.0 dB	-2.5dB @ 860 MHz
ETD-A-1	A-1	99	-80dB	-3.0 dB	-2.5dB @ 860 MHz
ETD-A	A	14	-80dB	-3.1 dB	-2.5dB @ 860 MHz
ETD-B	B	15	-80dB	-3.3 dB	-2.5dB @ 860 MHz
ETD-C	C	16	-80dB	-3.4 dB	-2.5dB @ 860 MHz
ETD-D	D	17	-80dB	-3.5 dB	-2.5dB @ 860 MHz
ETD-E	E	18	-80dB	-3.5 dB	-2.5dB @ 860 MHz
ETD-F	F	19	-80dB	-3.6 dB	-2.5dB @ 860 MHz
ETD-G	G	20	-80dB	-3.9 dB	-2.5dB @ 860 MHz
ETD-H	H	21	-80dB	-4.0 dB	-2.5dB @ 860 MHz
ETD-I	I	22	-80dB	-4.2 dB	-2.5dB @ 860 MHz
ETD-7	7	7	-80dB	-4.3 dB	-2.5dB @ 860 MHz
ETD-8	8	8	-80dB	-4.5 dB	-2.5dB @ 860 MHz
ETD-9	9	9	-80dB	-5.0 dB	-2.5dB @ 860 MHz
ETD-10	10	10	-80dB	-5.2 dB	-2.5dB @ 860 MHz
ETD-11	11	11	-80dB	-5.5 dB	-2.5dB @ 860 MHz
ETD-12	12	12	-80dB	-6.0 dB	-2.5dB @ 860 MHz
ETD-13**	13	13	-80dB	-6.4 dB	-2.5dB @ 860 MHz

* Patents #4451803, 5202656 ** Higher channels available upon request.
pre-emphasis gain of : 3dB at video, 30dB at the jamming carrier and 5dB at audio.

*** Model 2002 Encoder will add an adjustable



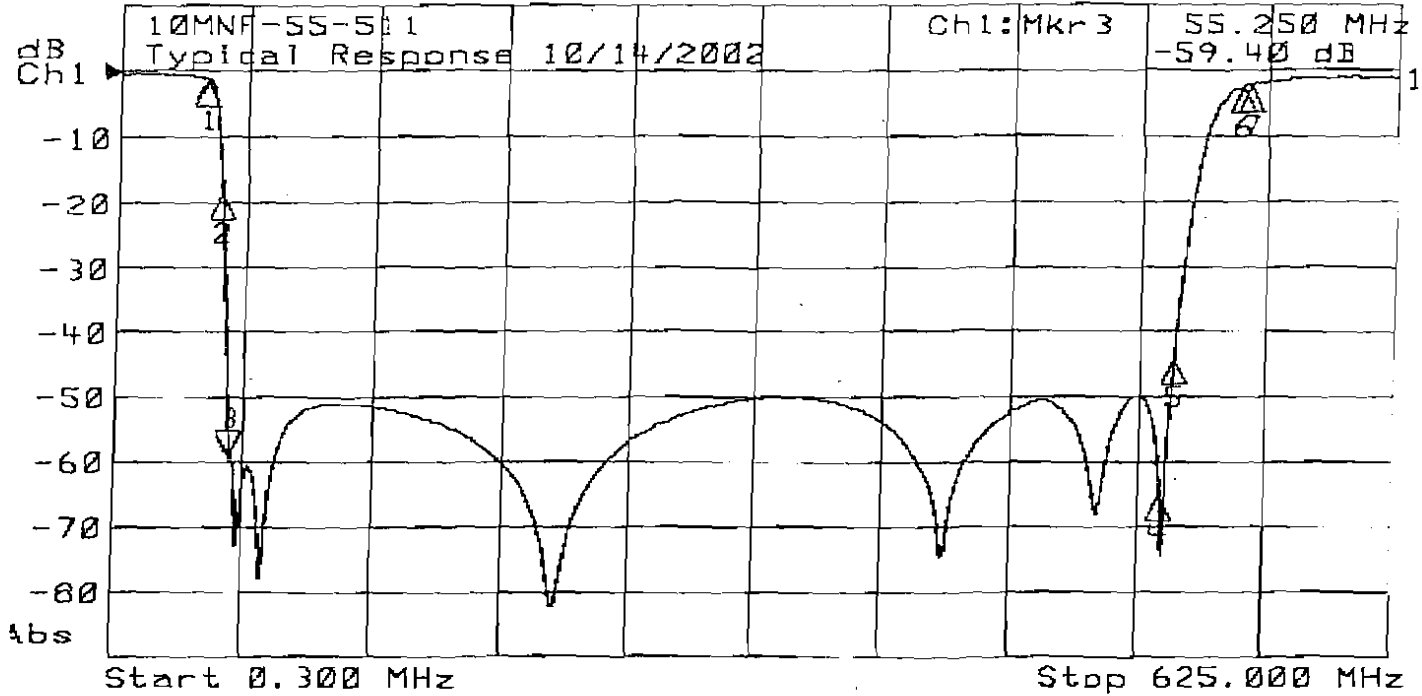
Corporate Headquarters: 4562 Waterhouse Road, Clay, NY 13041
Telephone: (315) 622-3402 Toll Free 1 800-448-7474 Fax: (315) 622-3800
Eagle Web Site: <http://www.eaglefilters.com>
U.S.: Antec Corp. Telephone: 1-800-252-2288 Fax: (708) 439-8531

Canada: Antec Corp., Telephone: 1-800-665-1482 Fax: (905) 507-6496 Telex: 1-888-835-6649 Fax: 905-727-2991
Distribution: Argentina, Belgium, Brazil, Canada, Chile, Denmark, Egypt, France, Germany, Israel, Italy, Korea, Mexico, Norway, Poland, Portugal, Romania, South Africa, Spain, Sweden, Taiwan, Turkey, UK, and Venezuela. Call for any additional information.



Model: 10MNF-55-511 (2.6)

►1: Transmission Log Mag 10.0 dB/ Ref 0.00 dB C?
 ►2: Off



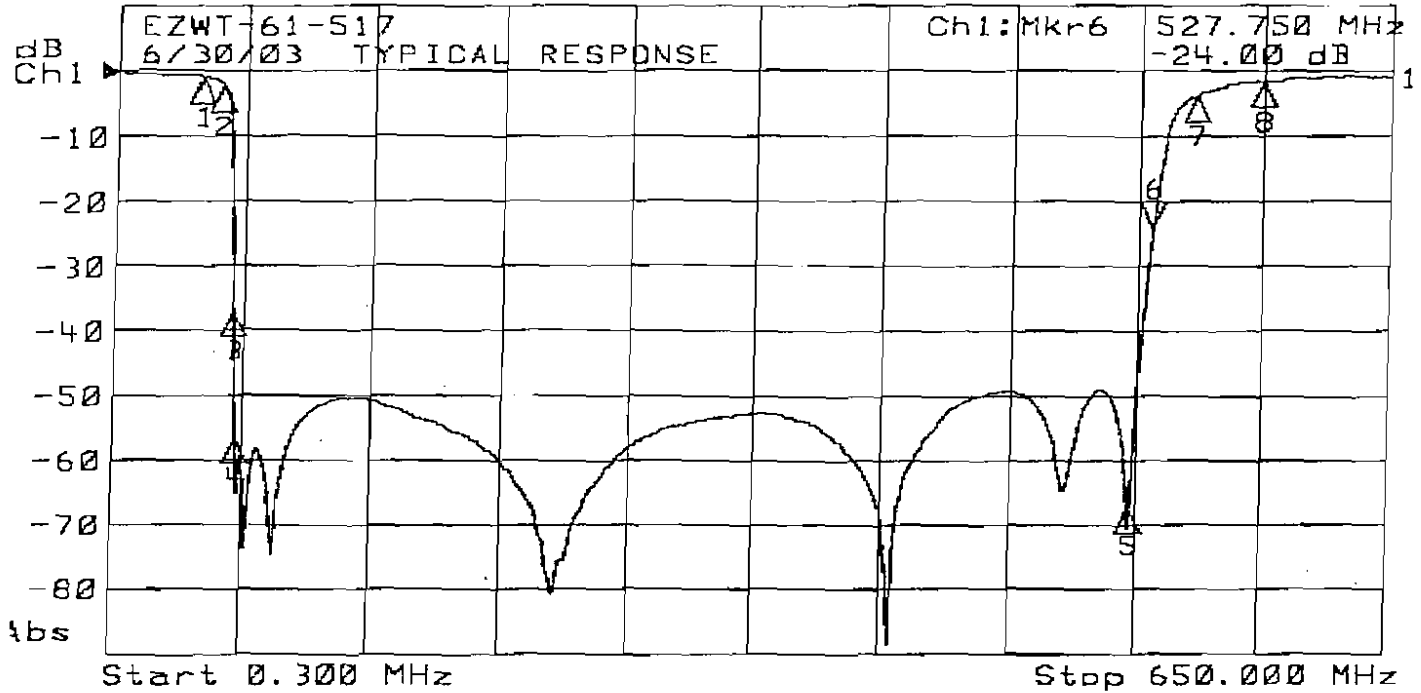
Channel 1 Markers				
Mk #	Channel #		Frequency	Loss
1			42.000	-1.31
2			50.000	-18.31
3	2 = 2	Video	55.250	-59.40
4	JJJ = 72	Video	511.250	-64.98
5	KKK = 73	Video	517.250	-43.91
6			550.000	-2.35
7	QQQ = 79	Video	553.250	-2.09

Channel 2 Markers				
Mk #	Channel #		Frequency	Loss
1				
2				
3				
4				
5				
6				
7				



Model: EZWT-61-517

►1: Transmission Log Mag 10.0 dB/ Ref 0.00 dB C?
►2: Off



Channel 1 Markers

Mk #	Channel #		Frequency	Loss
1			42.000	-0.85
2			53.000	-2.09
3	2 = 2	Audio	59.750	-36.94
4	3 = 3	Video	61.250	-56.52
5	KKK = 73	Video	517.250	-67.19
6	LLL = 74	Audio	527.750	-24.00
7			550.000	-3.60
8			585.000	-1.60

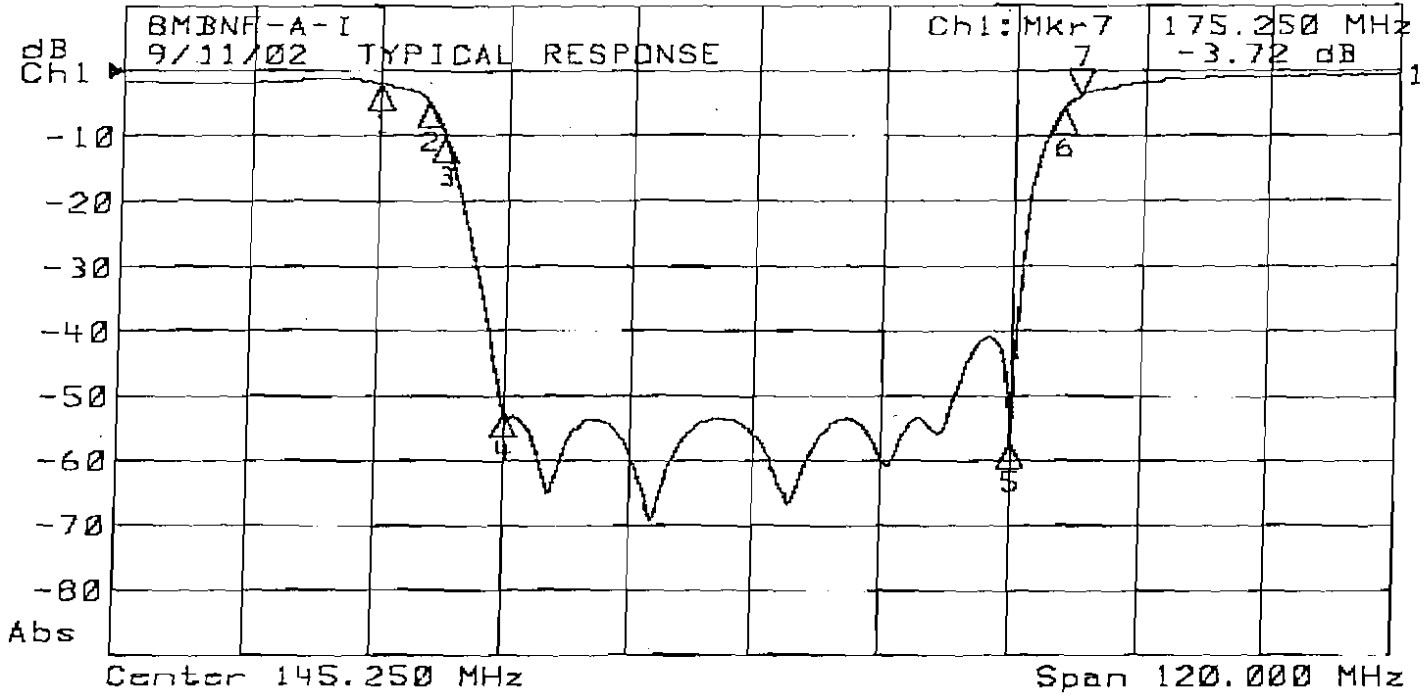
Channel 2 Markers

Mk #	Channel #		Frequency	Loss
1				
2				
3				
4				
5				
6				
7				
8				



Model: 8MBNF-A-I

►1: Transmission Log Mag 10.0 dB/ Ref 0.00 dB C7
 ►2: Off



Channel 1 Markers

Mk #	Channel #		Frequency	Loss
1	A-2 = 98	Video	109.250	-1.96
2	A-2 = 98	Audio	113.750	-4.61
3	A-1 = 99	Video	115.250	-9.94
4	A = 14	Video	121.250	-52.60
5	I = 22	Video	169.250	-57.27
6	I = 22	Audio	173.750	-5.58
7	7 = 7	Video	175.250	-3.72

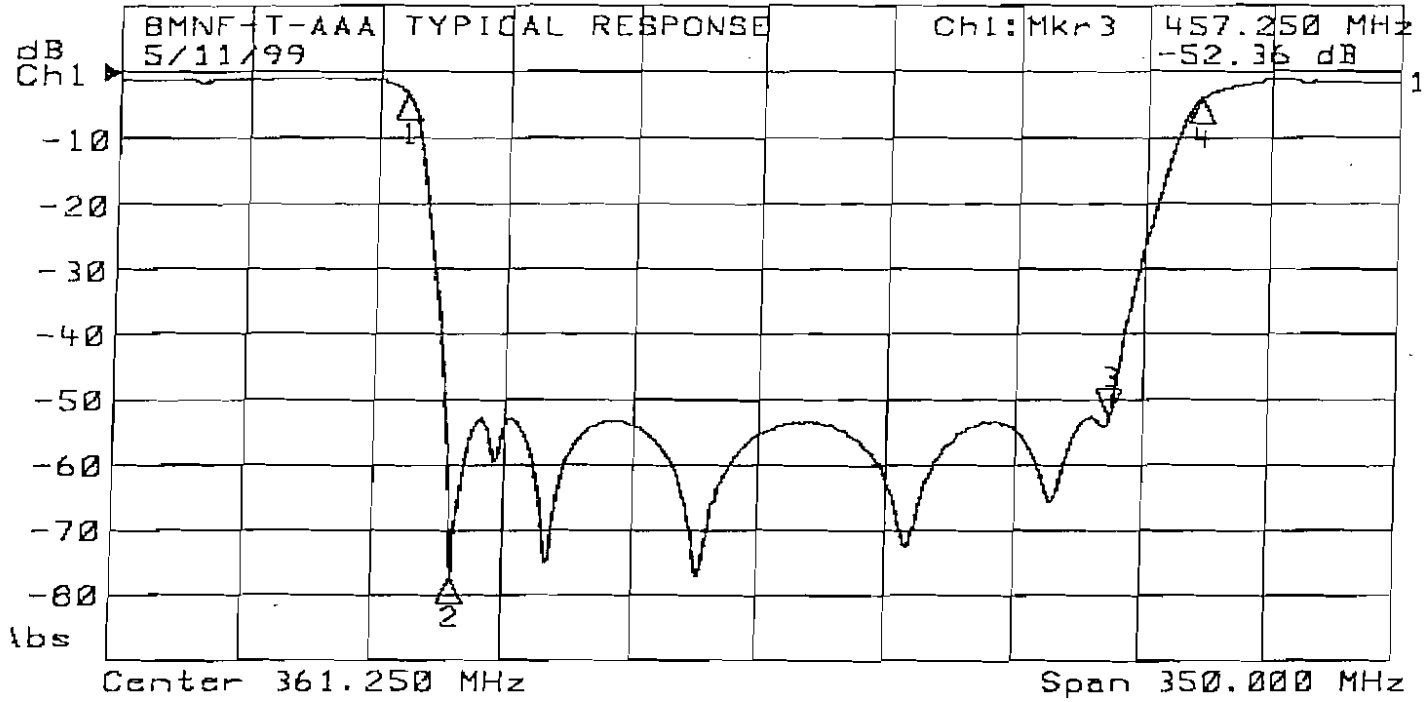
Channel 2 Markers

Mk #	Channel #		Frequency	Loss
1				
2				
3				
4				
5				
6				
7				



Model: 8MNF-T-AAA

►1: Transmission Log Mag 10.0 dB/ Ref 0.00 dB C?
 ►2: Off



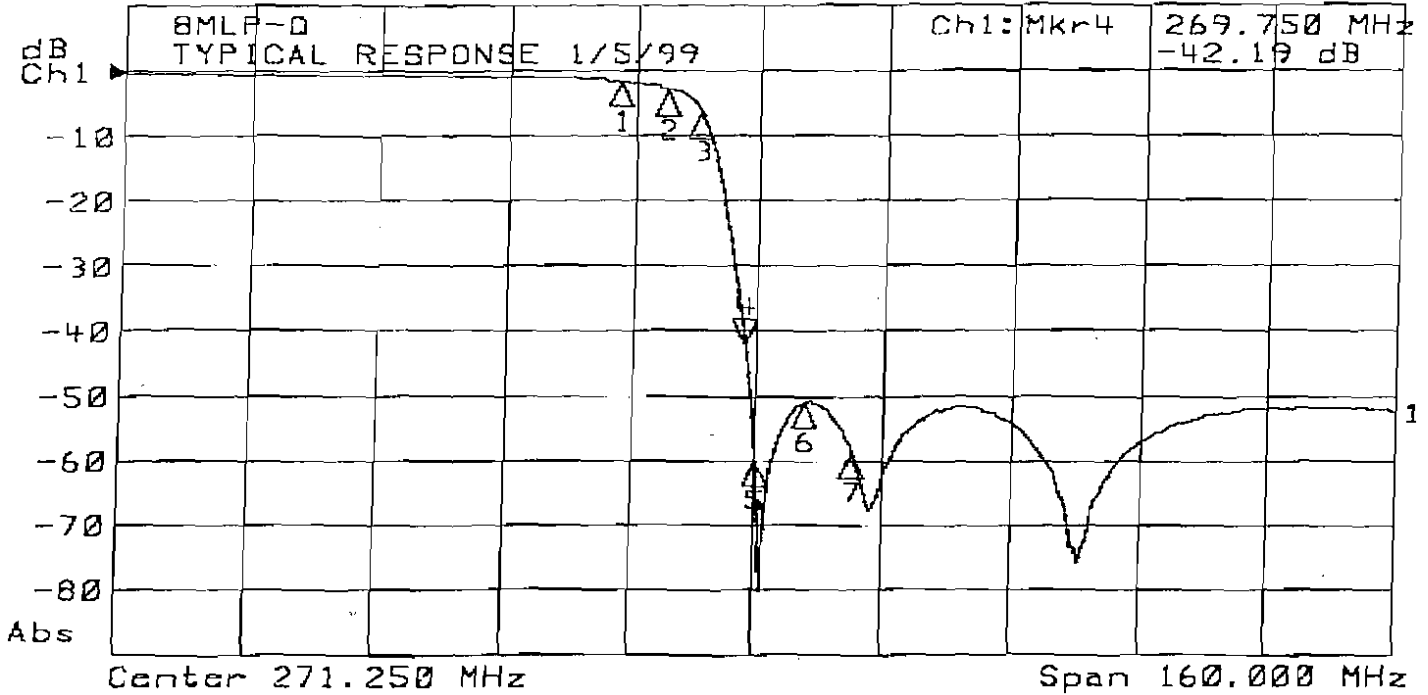
Channel 1 Markers				
#	Channel #		Frequency	Loss
1	Q = 30	Audio	263.750	-3.11
2	T = 33	Video	277.250	-77.30
3	AAA = 63	Video	457.250	-52.36
4	EEE = 67	Video	481.250	-3.88

Channel 2 Markers				
Mk #	Channel #		Frequency	Loss
1				
2				
3				
4				



Model: 8MLP-Q

►1: Transmission Log Mag 10.0 dB/ Ref 0.00 dB C?
 ►2: Off



Channel 1 Markers

k #	Channel #		Frequency	Loss
1	P = 29	Video	253.250	-1.56
2	Q = 30	Video	259.250	-2.66
3	Q = 30	Audio	263.750	-6.14
4	R = 31	Audio	269.750	-42.19
5	S = 32	Video	271.250	-59.98
6	T = 33	Video	277.250	-51.07
7	U = 34	Video	283.250	-58.74

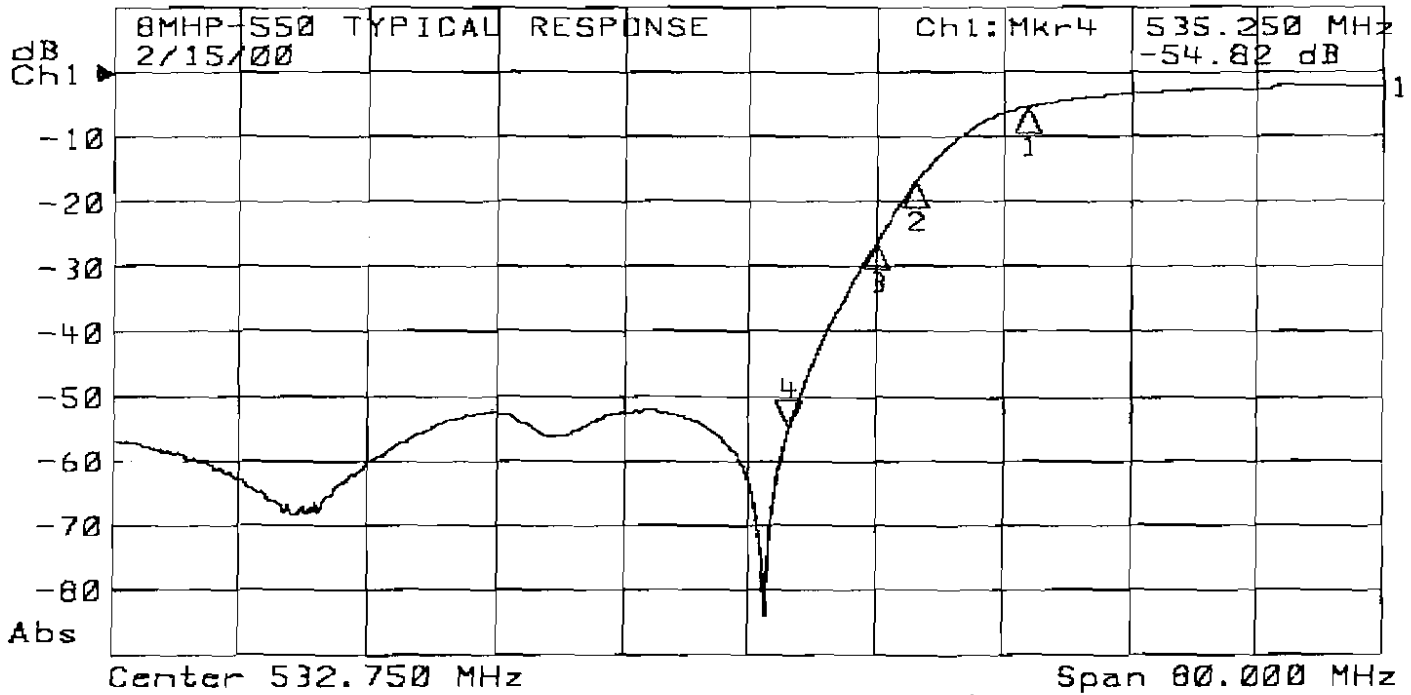
Channel 2 Markers

Mk #	Channel #		Frequency	Loss
1				
2				
3				
4				
5				
6				
7				



Model: 8MHP-550

►1: Transmission Log Mag 10.0 dB/ Ref 0.00 dB C?
 ►2: Off



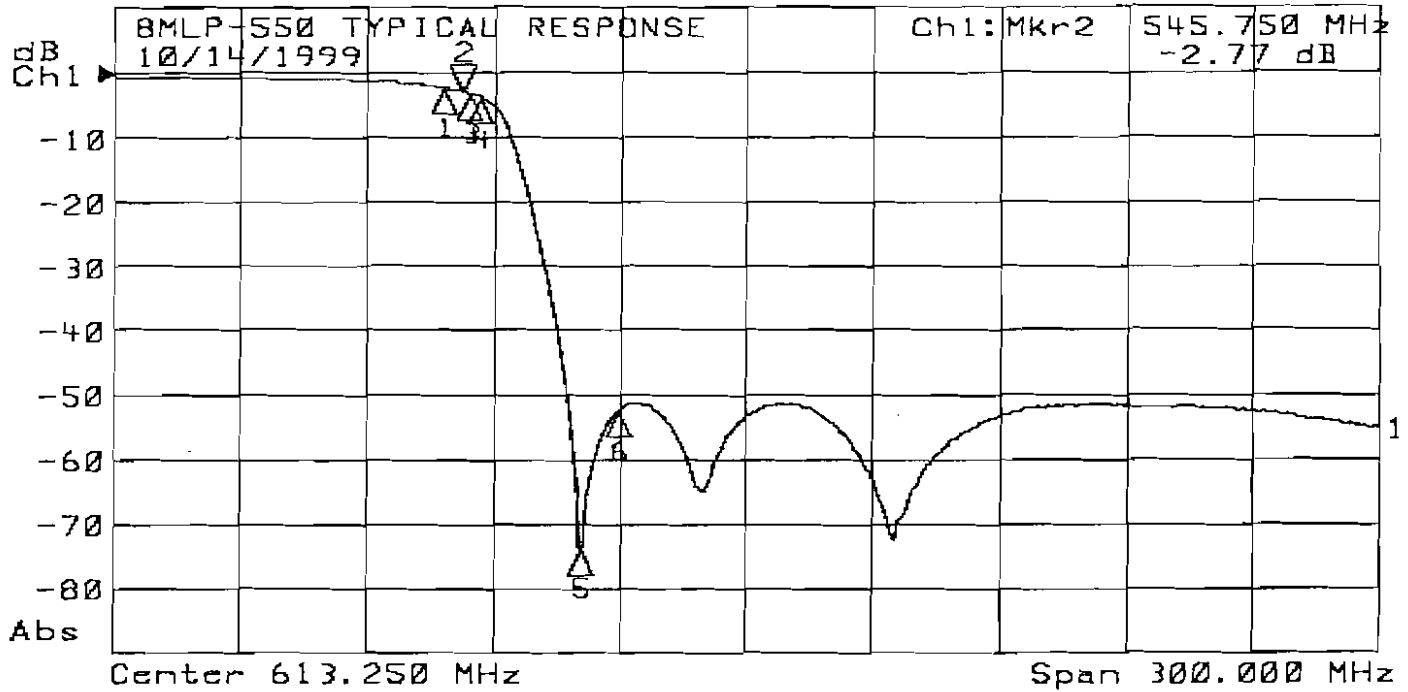
Channel 1 Markers				
Mk #	Channel #	Frequency	Loss	
1		550.250	-5.33	
2		543.250	-16.98	
3		540.750	-26.10	
4	NNN = 76	Video	535.250	-54.82

Channel 2 Markers				
Mk #	Channel #	Frequency	Loss	
1				
2				
3				
4				



Model: 8MLP-550

►1: Transmission Log Mag 10.0 dB/ Ref 0.00 dB C?
 ►2: Off



Channel 1 Markers				
Mk #	Channel #		Frequency	Loss
1	000 = 77	Video	541.250	-2.16
2	000 = 77	Audio	545.750	-2.77
3	PPP = 78	Video	547.250	-3.04
4			550.000	-3.66
5			574.000	-73.70
6			583.000	-52.41

Channel 2 Markers				
Mk #	Channel #		Frequency	Loss
1				
2				
3				
4				
5				
6				

TIME WARNER CABLE - SYRACUSE DIVISION

Headend Tests

System Name : Binghamton

HE Location : 483 Plaza Dr. Vestal NY

TIME WARNER CABLE - SYRACUSE DIVISION

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

System Name : Binghamton

HE Location : 483 Plaza Drive Vestal

Date 02/27/2007

Performed By : J. Pratt

ACTUAL CHANNEL	CARRIER FREQ	VISUAL FREQUENCY(MHZ)	AURAL FREQUENCY DIFF (MHZ)	ACTUAL CHANNEL	CARRIER FREQ	VISUAL FREQUENCY(MHZ)	AURAL FREQUENCY DIFF (MHZ)
2	55.2500	55.2500	4.4997	DD (40)	319.2625	319.2627	4.5000
3	61.2500	61.2500	4.4996	EE (41)	325.2625	325.2624	4.5000
4	67.2500	67.2500	4.5000	FF (42)	331.2750	331.2749	4.5000
5	77.2500	77.2500	4.4996	GG (43)	337.2625	337.2623	4.5000
6	83.2500	83.2500	4.5001	HH (44)	343.2625	343.2628	4.5000
A-5 (95)	91.2500			II (45)	349.2625	349.2625	4.5001
A-4 (96)	97.2500			JJ (46)	355.2625	355.2622	4.5000
A-3 (97)	103.2500			KK (47)	361.2625	361.2626	4.5000
A-2 (98)	109.2750			LL (48)	367.2625	367.2624	4.5000
A-1 (99)	115.2750	115.2750	4.5000	MM (49)	373.2625	373.2624	4.4999
A (14)	121.2625	121.2652	4.5001	NN (50)	379.2625	379.2626	4.5000
B (15)	127.2625	127.2624	4.5000	OO (51)	385.2625	385.2623	4.5001
C (16)	133.2625	133.2626	4.5000	PP (52)	391.2625	391.2623	4.5000
D (17)	139.2500	139.2498	4.5000	QQ (53)	397.2625	397.2625	4.5000
E (18)	145.2500	145.2625	4.5000	RR (54)	403.2500	403.2499	4.5000
F (19)	151.3120	151.3123	4.5000	SS (55)	409.2500	409.2498	4.5000
G (20)	157.2500	157.2499	4.5000	TT (56)	415.2500	415.2498	4.5000
H (21)	163.2500	163.2500	4.5003	UU (57)	421.2500	421.2487	4.5000
I (22)	169.2500	169.2498	4.5000	VV (58)	427.2500	427.2497	4.5000
7	175.2500	175.2499	4.5000	WW (59)	433.2500	433.2504	4.5000
8	181.2500	181.2499	4.4999	XX (60)	439.2500	439.2498	4.5000
9	187.2500	187.2501	4.5000	YY (61)	445.2500	445.2508	4.5001
10	193.2500	193.2498	4.4999	ZZ (62)	451.2500	451.2504	4.5000
11	199.2500	199.2497	4.5000	63	457.2500	457.2498	4.4999
12	205.2500	205.2401	4.5001	64	463.2500	463.2502	4.5000
13	211.2500	211.2500	4.5000	65	469.2500	469.2503	4.5000
J (23)	217.2500	217.2500	4.5001	66	475.2500	475.2501	4.5000
K (24)	223.2500	223.2499	4.5000	67	481.2500	481.2502	4.5000
L (25)	229.2625	229.2626	4.5000	68	487.2500	487.2504	4.5000
M (26)	235.2625	235.2625	4.5000	69	493.2500	493.2498	4.5000
N (27)	241.2625	241.2624	4.5000	70	499.2500	499.2505	4.5000
O (28)	247.2625	247.2625	4.5000	71	505.2500	505.2500	4.5000
P (29)	253.2625	253.2625	4.5000	72	511.2500	511.2500	4.5000
Q (30)	259.2625	259.2624	4.5000	73	517.2500	517.2507	4.4998
R (31)	265.2625	265.2623	4.5000	74	523.2500	523.2501	4.5000
S (32)	271.2625	271.2622	4.5000	75	529.2500	529.2501	4.5000
T (33)	277.2625	277.2626	4.5000	76	535.2500	535.2494	4.5001
U (34)	283.2625	283.2627	4.4999	77	541.2500		
V (35)	289.2625	289.2623	4.5000	78	547.2500	547.2506	4.5000
W (36)	295.2625	295.2623	4.5000	79	553.2500		
AA (37)	301.2625	301.2624	4.4999	80	559.2500		
BB (38)	307.2625	307.2623	4.5000	81	565.2500		
CC (39)	313.2625	313.2623	4.5000				

Page 10A
TIME WARNER CABLE - SYRACUSE DIVISION

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

System Name Binghamton
HE Location Montrose PA
Performed By J. Pratt

Date 03/02/2007

ACTUAL CHANNEL	CARRIER FREQ	VISUAL FREQUENCY(MHZ)	AURAL FREQUENCY DIFF (MHZ)	ACTUAL CHANNEL	CARRIER FREQ	VISUAL FREQUENCY(MHZ)	AURAL FREQUENCY DIFF (MHZ)
2	55.2500	55.2500	4.4999	DD (40)	319.2625		
3	61.2500	61.2473	4.4999	EE (41)	325.2625		
4	67.2500	67.2501	4.5000	FF (42)	331.2750		
5	77.2500	77.2511	4.5000	GG (43)	337.2625		
6	83.2500	83.2500	4.5000	HH (44)	343.2625		
A-5 (95)	91.2500			II (45)	349.2625		
A-4 (96)	97.2500			JJ (46)	355.2625		
A-3 (97)	103.2500			KK (47)	361.2625		
A-2 (98)	109.2750	109.2750	4.5001	LL (48)	367.2625		
A-1 (99)	115.2750	115.2759	4.5001	MM (49)	373.2625		
A (14)	121.2625	121.2643	4.4999	NN (50)	379.2625		
B (15)	127.2625	127.2629	4.5000	OO (51)	385.2625		
C (16)	133.2625	133.2623	4.5000	PP (52)	391.2625		
D (17)	139.2500	139.2496	4.5000	QQ (53)	397.2625		
E (18)	145.2500	145.2646	4.5000	RR (54)	403.2500		
F (19)	151.3210	151.3123	4.5000	SS (55)	409.2500		
G (20)	157.2500	157.2449	4.5000	TT (56)	415.2500		
H (21)	163.2500	163.2487	4.5000	UU (57)	421.2500		
I (22)	169.2500	169.2419	4.5000	VV (58)	427.2500		
7	175.2500	175.2474	4.4999	WW (59)	433.2500		
8	181.2500	181.2458	4.5001	XX (60)	439.2500		
9	187.2500	187.2491	4.5000	YY (61)	445.2500		
10	193.2500	193.2448	4.5009	ZZ (62)	451.2500		
11	199.2500	199.2500	4.5000	63	457.2500		
12	205.2500	205.2401	4.5001	64	463.2500		
13	211.2500	211.2508	4.5000	65	469.2500		
J (23)	217.2500	217.2501	4.5000	66	475.2500		
K (24)	223.2500			67	481.2500		
L (25)	229.2625			68	487.2500		
M (26)	235.2625			69	493.2500		
N (27)	241.2625			70	499.2500		
O (28)	247.2625			71	505.2500		
P (29)	253.2625			72	511.2500		
Q (30)	259.2625			73	517.2500		
R (31)	265.2625			74	523.2500		
S (32)	271.2625			75	529.2500		
T (33)	277.2625			76	535.2500		
U (34)	283.2625			77	541.2500		
V (35)	289.2625			78	547.2500		
W (36)	295.2625			79	553.2500		
AA (37)	301.2625			80	559.2500		
BB (38)	307.2625			81	565.2500		
CC (39)	313.2625						

TIME WARNER CABLE - SYRACUSE DIVISION**Visual / Aural Level Difference Test
(at Headend)**

System Name : Binghamton **Meter / Serial Number** : Wavetek/9343238
HE Location : 483 Plaza Dr. Vestal NY **Performed By** : J. Pratt
Date : 03/05/2007 **Time** : 10:57:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)
2	55.2500	12.2	-1.6		13.8	DD (40)	319.2625	11.6	-2.0		13.6
3	61.2500	12.0	-1.6		13.6	EE (41)	325.2625	12.5	-1.7		14.2
4	67.2500	12.3	-2.7		15	FF (42)	331.2750	12.3	-1.7		14
5	77.2500	12.1	2.5		14.6	GG (43)	337.2625	12.5	-2.0		14.5
6	83.2500	12.7	-1.6		14.3	HH (44)	343.2625	12.1	-2.1		14.2
A-5 (95)	91.2500	N/A	N/A		N/A	II (45)	349.2625	12.2	-2.0		14.2
A-4 (96)	97.2500	N/A	N/A		N/A	JJ (46)	355.2625	12.0	-2.0		14
A-3 (97)	103.2500	N/A	N/A		N/A	KK (47)	361.2625	12.3	-1.5		13.8
A-2 (98)	109.2750	N/A	N/A		N/A	LL (48)	367.2625	12.4	-1.5		13.9
A-1 (99)	115.2750	12.4	-1.6		14	MM (49)	373.2625	12.0	-1.7		13.7
A (14)	121.2625	12.6	-1.5		14.1	NN (50)	379.2625	12.5	-1.6		14.1
B (15)	127.2625	12.5	-1.7		14.2	OO (51)	385.2625	12.2	-1.4		13.6
C (16)	133.2625	12.4	-1.7		14.1	PP (52)	391.2625	11.9	-2.4		14.3
D (17)	139.2500	12.4	-1.5		13.9	QQ (53)	397.2625	12.4	-1.9		14.3
E (18)	145.2500	12.2	-1.8		14	RR (54)	403.2500	12.4	-1.8		14.2
F (19)	151.3210	12.0	-2.2		14.2	SS (55)	409.2500	12.5	-1.5		14
G (20)	157.2500	11.9	-2.1		14	TT (56)	415.2500	12.4	-1.5		13.9
H (21)	163.2500	12.3	-2.3		14.6	UU (57)	421.2500	12.3	-1.7		14
I (22)	169.2500	12.3	-1.8		14.1	VV (58)	427.2500	12.4	-1.4		13.8
7	175.2500	12.6	-1.2		13.8	WW (59)	433.2500	12.2	-2.0		14.2
8	181.2500	12.5	-1.3		13.8	XX (60)	439.2500	11.9	-1.8		13.7
9	187.2500	12.4	-1.5		13.9	YY (61)	445.2500	12.2	-1.7		13.9
10	193.2500	12.2	-1.8		14	ZZ (62)	451.2500	12.3	-1.6		13.9
11	199.2500	12.4	-1.7		14.1	63	457.2500	12.2	-2.0		14.2
12	205.2500	11.9	-2.1		14	64	463.2500	12.3	-1.9		14.2
13	211.2500	12.2	-1.4		13.6	65	469.2500	12.3	-2.0		14.3
J (23)	217.2500	12.2	-1.8		14	66	475.2500	12.1	-1.9		14
K (24)	223.2500	12.4	2.2		14.6	67	481.2500	12.2	-1.9		14.1
L (25)	229.2625	12.4	-1.7		14.1	68	487.2500	12.0	-1.9		13.9
M (26)	235.2625	12.0	-2.0		14	69	493.2500	12.5	-1.5		14
N (27)	241.2625	12.1	-1.7		13.8	70	499.2500	12.1	-2.0		14.1
O (28)	247.2625	12.3	-1.8		14.1	71	505.2500	12.2	-2.0		14.2
P (29)	253.2625	12.2	-1.7		13.9	72	511.2500	12.1	-2.5		14.6
Q (30)	259.2625	12.4	-1.7		14.1	73	517.2500	12.4	-1.5		13.9
R (31)	265.2625	12.3	-1.6		13.9	74	523.2500	11.9	-1.7		13.6
S (32)	271.2625	11.9	-2.1		14	75	529.2500	12.8	-1.1		13.9
T (33)	277.2625	12.0	-2.4		14.4	76	535.2500	12.9	-1.3		14.2
U (34)	283.2625	12.3	-1.8		14.1	77	541.2500	N/A	N/A		N/A
V (35)	289.2625	11.7	-2.0		13.7	78	547.2500	12.8	-1.6		14.4
W (36)	295.2625	12.4	-1.9		14.3	79	553.2500	N/A	N/A		N/A
AA (37)	301.2625	12.1	-2.2		14.5	80	559.2500	N/A	N/A		N/A
BB (38)	307.2625	12.2	-2.0		14.2	81	565.2500	N/A	N/A		N/A
CC (39)	313.2625	12.3	-1.8		14.1						

Min Channel : DD(40) 11.6

Max Channel : 76 12.9

Peak to Valley : 1.3

TIME WARNER CABLE - SYRACUSE DIVISION**Visual / Aural Level Difference Test
(at Headend)**

System Name : Binghamton **Meter / Serial Number** : Wavetek/9343238
HE Location : Montrose PA **Performed By** : J. Pratt
Date : 03/02/2007 **Time** : 11:30:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)
2	55.2500	13.0	-1.3		14.3	DD (40)	319.2625	12.4	-1.5		13.9
3	61.2500	12.7	-1.5		14.2	EE (41)	325.2625	12.7	-2.6		15.3
4	67.2500	12.8	-1.7		14.5	FF (42)	331.2750	11.7	-2.0		13.7
5	77.2500	13.1	-0.6		13.7	GG (43)	337.2625	11.8	-1.7		13.5
6	83.2500	12.6	-1.3		13.9	HH (44)	343.2625	12.6	-1.3		13.9
A-5 (95)	91.2500	N/A	N/A		N/A	II (45)	349.2625	13.1	-0.6		13.7
A-4 (96)	97.2500	N/A	N/A		N/A	JJ (46)	355.2625	13.5	-1.1		14.6
A-3 (97)	103.2500	N/A	N/A		N/A	KK (47)	361.2625	13.2	-0.3		13.5
A-2 (98)	109.2750	12.8	-1.5		14.3	LL (48)	367.2625	13.6	-0.4		14
A-1 (99)	115.2750	12.8	-2.1		14.9	MM (49)	373.2625	13.8	-0.5		14.3
A (14)	121.2625	12.4	-1.9		14.3	NN (50)	379.2625	13.5	-1.7		15.2
B (15)	127.2625	12.9	-1.6		14.5	OO (51)	385.2625	12.0	-1.4		13.4
C (16)	133.2625	13.1	-1.1		14.2	PP (52)	391.2625	12.1	-2.7		14.8
D (17)	139.2500	13.8	-0.8		14.6	QQ (53)	397.2625	11.8	-2.0		13.8
E (18)	145.2500	13.2	-1.5		14.7	RR (54)	403.2500	12.6	-0.6		13.2
F (19)	151.3210	12.8	-1.4		14.2	SS (55)	409.2500	13.8	0.0		13.8
G (20)	157.2500	12.9	-1.6		14.5	TT (56)	415.2500	14.1	0.3		13.8
H (21)	163.2500	12.5	-1.5		14	UU (57)	421.2500	13.7	-0.3		14
I (22)	169.2500	12.8	-1.4		14.2	VV (58)	427.2500	14.1	0.6		13.5
7	175.2500	12.8	-1.2		14	WW (59)	433.2500	14.1	-0.9		15
8	181.2500	13.1	-1.8		14.9	XX (60)	439.2500	12.9	-0.8		13.7
9	187.2500	13.0	-1.4		14.4	YY (61)	445.2500	13.1	-1.4		14.5
10	193.2500	13.3	0.1		13.4	ZZ (62)	451.2500	12.9	-0.7		13.6
11	199.2500	12.7	-1.5		14.2	63	457.2500	13.4	-1.0		14.4
12	205.2500	12.1	-2.2		14.3	64	463.2500	13.0	-1.1		14.1
13	211.2500	10.7	-3.6		14.3	65	469.2500	13.0	-1.4		14.4
J (23)	217.2500	8.8	-3.3		12.1	66	475.2500	12.9	-0.7		13.6
K (24)	223.2500	10.7	-3.5		14.2	67	481.2500	12.9	-0.6		13.5
L (25)	229.2625	11.3	-2.6		13.9	68	487.2500	13.3	-0.9		14.2
M (26)	235.2625	11.4	-1.6		13	69	493.2500	13.4	-0.8		14.2
N (27)	241.2625	12.5	-1.7		14.2	70	499.2500	13.0	-1.2		14.2
O (28)	247.2625	12.0	-2.7		14.7	71	505.2500	13.4	-0.9		14.3
P (29)	253.2625	11.3	-2.8		14.1	72	511.2500	13.1	-1.6		14.7
Q (30)	259.2625	11.4	-2.7		14.1	73	517.2500	13.1	-1.1		14.2
R (31)	265.2625	10.8	-2.0		12.8	74	523.2500	12.3	-2.0		14.3
S (32)	271.2625	11.8	-3.0		14.8	75	529.2500	12.4	-1.4		13.8
T (33)	277.2625	10.8	-4.3		15.1	76	535.2500	12.6	1.1		13.7
U (34)	283.2625	9.4	-3.2		12.6	77	541.2500	N/A	N/A		N/A
V (35)	289.2625	11.5	-1.5		13	78	547.2500	14.5	0.7		13.8
W (36)	295.2625	13.3	-0.8		14.1	79	553.2500	N/A	N/A		N/A
AA (37)	301.2625	13.3	-1.9		15.2	80	559.2500	N/A	N/A		N/A
BB (38)	307.2625	12.6	-1.6		14.2	81	565.2500	N/A	N/A		N/A
CC (39)	313.2625	12.7	1.1		13.8						

Min Channel : J(23) 8.8

Max Channel : 78 14.5

Peak to Valley : 5.7

TIME WARNER CABLE - SYRACUSE DIVISION

<i>System Name</i>	:	Binghamton
<i>System Test Point #</i>	:	1
<i>Hub Name</i>	:	Taft Ave.
<i>Location</i>	:	Off Rt.26 Whitney Point
<i>Map Number</i>	:	
<i>Pole Number</i>	:	(47A-1)(C&U28-2)
<i>D.T. Value</i>	:	17
<i>OR Number</i>	:	1
<i>GNA Cascade</i>	:	5
<i>LE Cascade</i>	:	2

TIME WARNER CABLE - SYRACUSE DIVISION

**VISUAL CARRIER LEVEL
VISUAL / AURAL LEVEL DIFFERENCE
(at Test Point, at the end of a 100' Drop)**

System Name : Binghamton **Test Location** : Off Rt.26 Whitney Point
Date : 02/22/2007 **Time** : 09:42:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)
2	55.2500	11.20	-2.10		13.3	DD (40)	319.2625	15.90	1.90		14
3	61.2500	11.80	-2.40		14.2	EE (41)	325.2625	16.40	2.20		14.2
4	67.2500	11.90	-4.60		16.5	FF (42)	331.2750	16.70	2.50		14.2
5	77.2500	11.30	-3.10		14.4	GG (43)	337.2625	16.90	2.50		14.4
6	83.2500	11.70	-2.80		14.5	HH (44)	343.2625	16.40	2.40		14
A-5 (95)	91.2500	N/A	N/A	N/A		II (45)	349.2625	16.60	2.30		14.3
A-4 (96)	97.2500	N/A	N/A	N/A		JJ (46)	355.2625	16.40	2.50		13.9
A-3 (97)	103.2500	N/A	N/A	N/A		KK (47)	361.2625	16.90	2.50		14.4
A-2 (98)	109.2750	N/A	N/A	N/A		LL (48)	367.2625	16.30	2.30		14
A-1 (99)	115.2750	11.00	-3.70		14.7	MM (49)	373.2625	16.00	2.40		13.6
A (14)	121.2625	10.00	-4.70		14.7	NN (50)	379.2625	16.10	2.20		13.9
B (15)	127.2625	8.80	-3.80		12.6	OO (51)	385.2625	16.10	2.20		13.9
C (16)	133.2625	11.10	-2.70		13.8	PP (52)	391.2625	15.50	0.90		14.6
D (17)	139.2500	11.90	-1.70		13.6	QQ (53)	397.2625	15.60	1.30		14.3
E (18)	145.2500	12.30	-2.10		14.4	RR (54)	403.2500	15.60	1.50		14.1
F (19)	151.3210	12.30	-1.90		14.2	SS (55)	409.2500	15.30	1.80		13.5
G (20)	157.2500	12.50	-1.50		14	TT (56)	415.2500	15.70	1.40		13.8
H (21)	163.2500	13.10	-0.10		13.2	UU (57)	421.2500	15.10	1.30		13.8
I (22)	169.2500	14.90	0.70		14.2	VV (58)	427.2500	15.60	2.10		13.5
7	175.2500	14.80	1.10		13.7	WW (59)	433.2500	15.60	1.30		14.3
8	181.2500	14.20	0.40		13.8	XX (60)	439.2500	15.10	1.20		13.9
9	187.2500	13.20	-0.40		13.6	YY (61)	445.2500	15.50	1.50		14
10	193.2500	13.60	-0.10		13.7	ZZ (62)	451.2500	15.90	2.20		13.7
11	199.2500	13.30	-0.40		13.7	63	457.2500	16.40	2.00		14.4
12	205.2500	13.30	-0.70		14	64	463.2500	15.90	1.80		14.1
13	211.2500	13.70	-0.10		13.8	65	469.2500	15.80	1.90		13.9
J (23)	217.2500	13.70	-0.40		14.1	66	475.2500	15.80	2.10		13.7
K (24)	223.2500	13.90	-0.80		14.7	67	481.2500	15.50	1.90		13.6
L (25)	229.2625	13.60	-0.60		14.2	68	487.2500	15.60	2.20		13.4
M (26)	235.2625	13.20	-0.60		13.8	69	493.2500	16.40	2.60		13.8
N (27)	241.2625	13.50	-0.20		13.7	70	499.2500	16.40	2.20		14.2
O (28)	247.2625	13.20	-0.30		13.5	71	505.2500	16.80	2.80		14
P (29)	253.2625	14.30	0.40		13.9	72	511.2500	16.80	2.60		14.2
Q (30)	259.2625	14.50	0.90		13.6	73	517.2500	17.40	3.20		14.2
R (31)	265.2625	14.80	1.30		13.5	74	523.2500	16.80	2.90		13.9
S (32)	271.2625	14.70	0.50		14.2	75	529.2500	17.40	3.70		13.7
T (33)	277.2625	14.90	0.50		14.4	76	535.2500	17.50	3.50		14
U (34)	283.2625	14.60	0.70		13.9	77	541.2500	N/A	N/A		N/A
V (35)	289.2625	15.30	1.20		14.1	78	547.2500	18.40	4.20		14.2
W (36)	295.2625	15.60	1.40		14.2	79	553.2500	N/A	N/A		N/A
AA (37)	301.2625	15.50	1.70		13.8	80	559.2500	N/A	N/A		N/A
BB (38)	307.2625	16.10	1.90		14.2	81	565.2500	N/A	N/A		N/A
CC (39)	313.2625	16.00	2.30		13.7						

Min Channel : B(15) 8.800

Max Channel : 78 18.400

Peak to Valley : 9.6

TIME WARNER CABLE - SYRACUSE DIVISION

**IN CHANNEL RESPONSE TEST
CARRIER - TO - NOISE TEST
COHERENT DISTURBANCES TEST
LOW FREQUENCY DISTURBANCES TEST**

System Name : Binghamton

Date : 03/13/2007

Performed By : John Hriciso

Location : Off Rt.26 Whitney Point

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

CHANNEL NUMBER	IN CHANNEL RESPONSE	CARRIER TO NOISE RATIO	DISTORTIONS	CSO	HUM
	(+/- DB)	(DB)	(-DBC) CTB		(%)
4	0.1	45.3	63.3	75.0	0.4
15	0.8	45.2	58.4	69.2	
12	0.2	45.1	58.6	70.1	
27	0.1	45.1	56.3	67.8	
41	0.3	45.7	57.8	72.8	
50	0.2	45.9	57.3	73.4	
62	0.2	47.4	56.0	71.8	
67	0.2	46.9	57.5	71.4	
76	0.1	47.6	57.0	73.2	

TIME WARNER CABLE - SYRACUSE DIVISION

***IN CHANNEL FREQUENCY RESPONSE TEST
(76.605) (a) (6)***

System Name : Binghamton

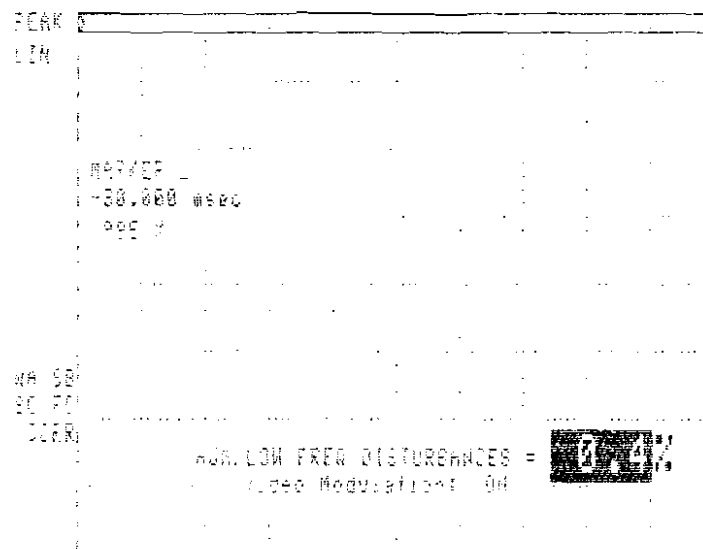
Date : 03/13/2007

Performed By : John Hriciso

Location : Off Rt.26 Whitney Point

(SEE THE ATTACHED SWEEP TRACES)

20110419 MAR 19, 2007
CH CHANNEL 100 (STD) FREQ 1 - 50.000 MHz
REF 64.94 dB AT 10 dB 1.000 V



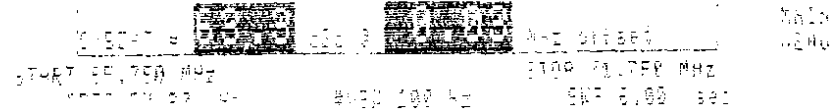
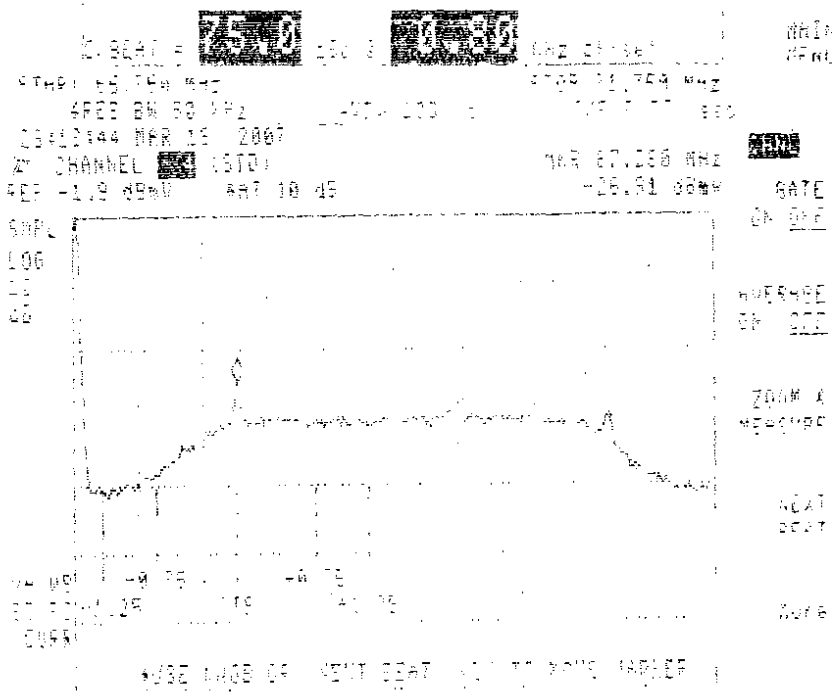
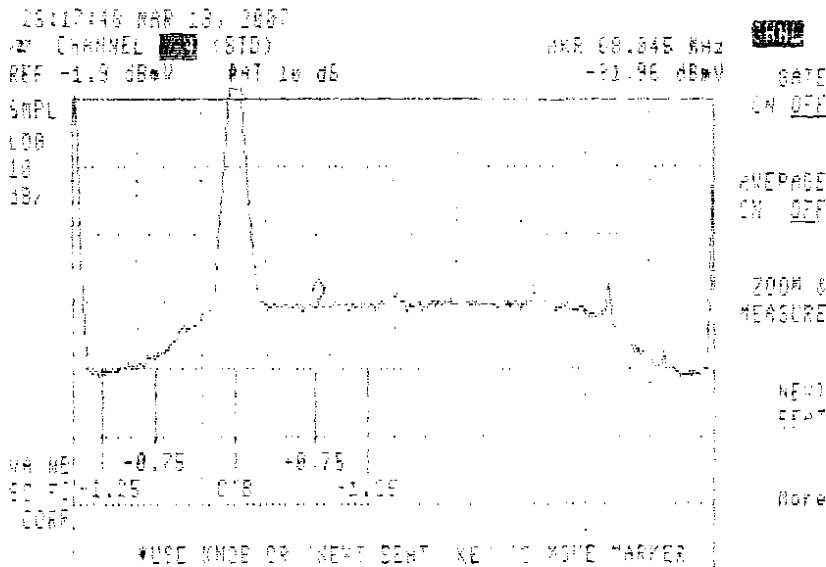
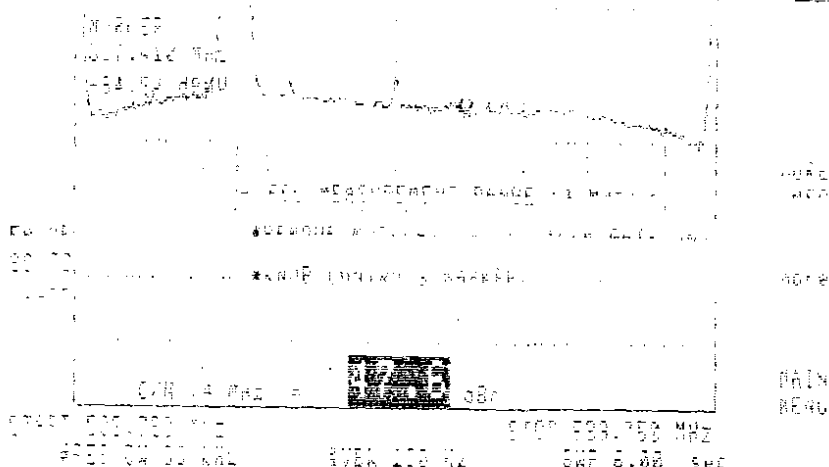
START 57.210 MHz STOP 57.210 MHz
#RES BW 1.0 MHz #GEN 1 MHz #BW 30.0 dB

MARKER

MORE
INFO

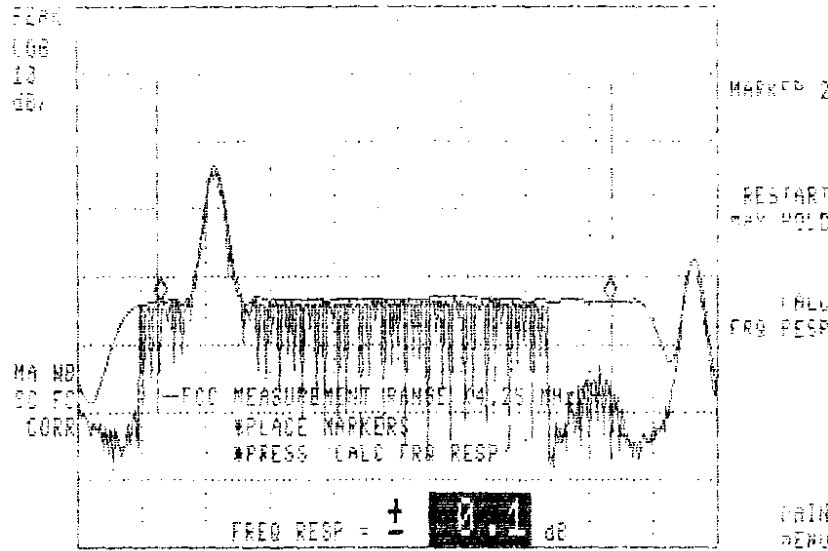
MAIN
MENU

23:12:53 MAR 13, 2007
 CH CHANNEL 001 (STD)
 REF -1.9 dBmV
 ATT 0 dB
 FREQ 53.410 MHz
 -34.54 dBmV
 GATE ON OFF
 AVERAGE ON OFF



23:20:10 MAR 13, 2007
CH1 CHANNEL 1 (STD)
REF 34.7 dBmV AT 10 dB

STOP 72.000 MHz
-11.97 dBmV



START 56.000 MHz STOP 72.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0

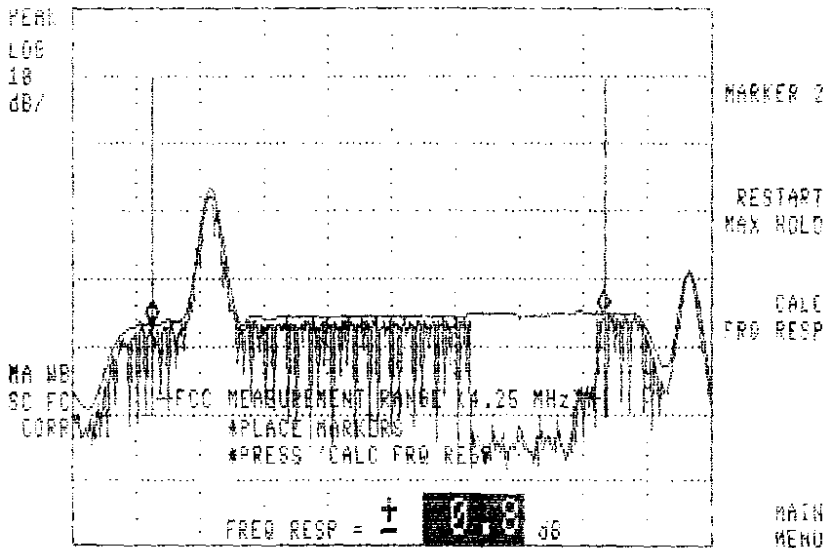
23:28:15 MAR 13, 2007

CH1 CHANNEL 1 (STD)

MARK 126.750 MHz

REF 34.7 dBmV AT 10 dB

-11.97 dBmV MARKER 1



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

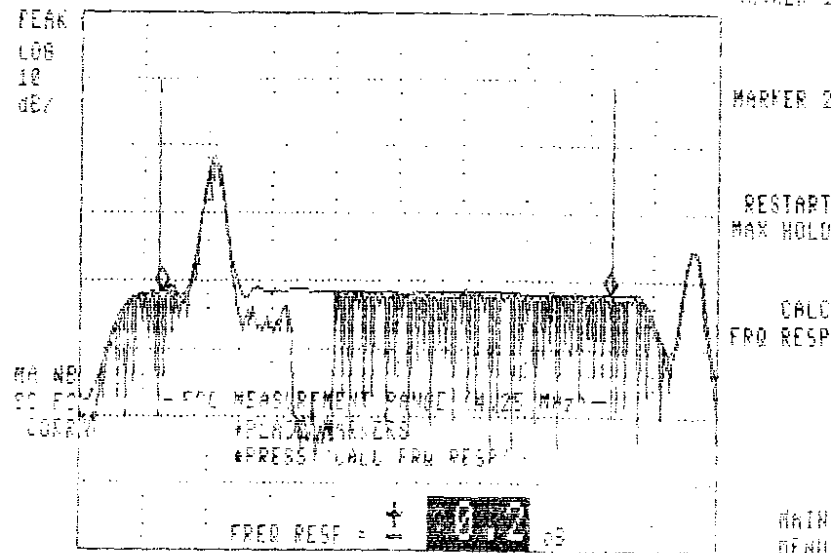
23:35:02 MAR 13, 2007

CH1 CHANNEL 1 (STD)

MARK 208.935 MHz

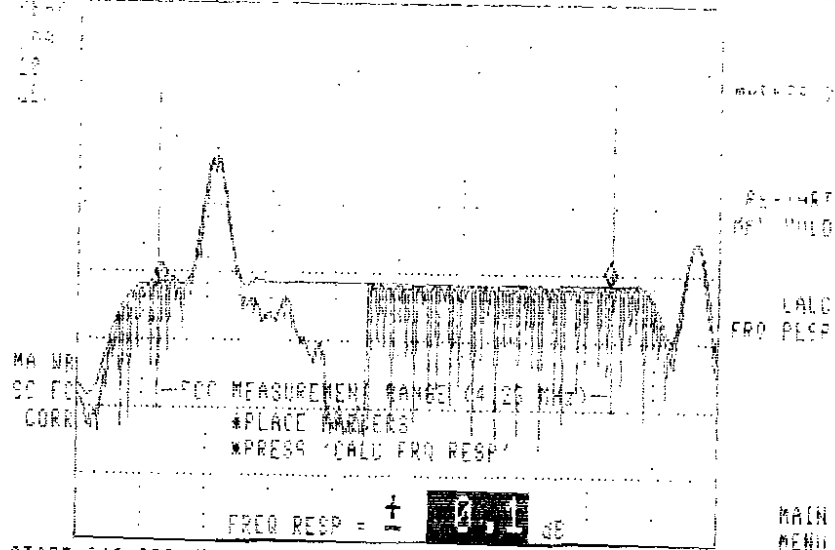
REF 34.7 dBmV AT 10 dB

-7.26 dBmV MARKER 1

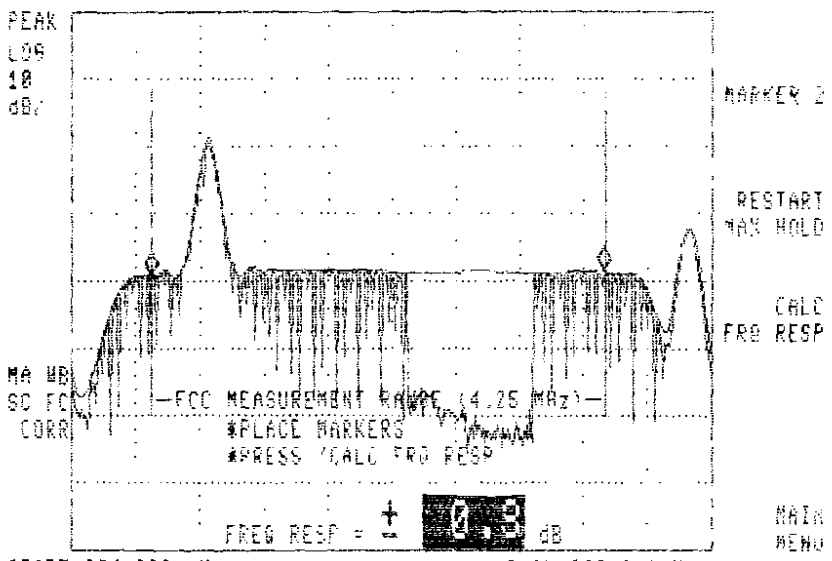


START 204.000 MHz STOP 210.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0

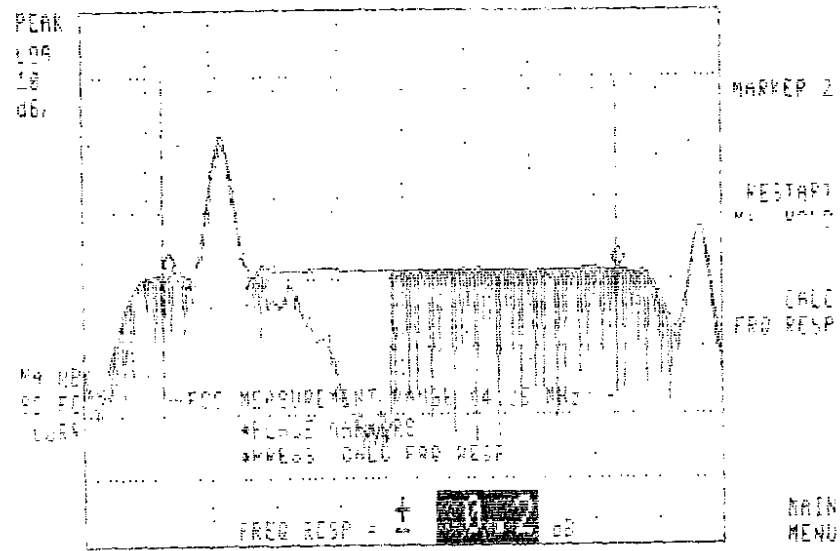
1. CHANNEL **3** **12.1**
 REF 34.7 dBmV AT 10 dB
 MARK 328.995 MHz **328.995**
 -3.85 dBmV MARKER 1



START 240.000 MHz STOP 245.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec
 23:48:23 MAR 13, 2007
 CHANNEL **3** (STD) MARK 328.995 MHz **328.995**
 REF 34.7 dBmV AT 10 dB -3.85 dBmV MARKER 1

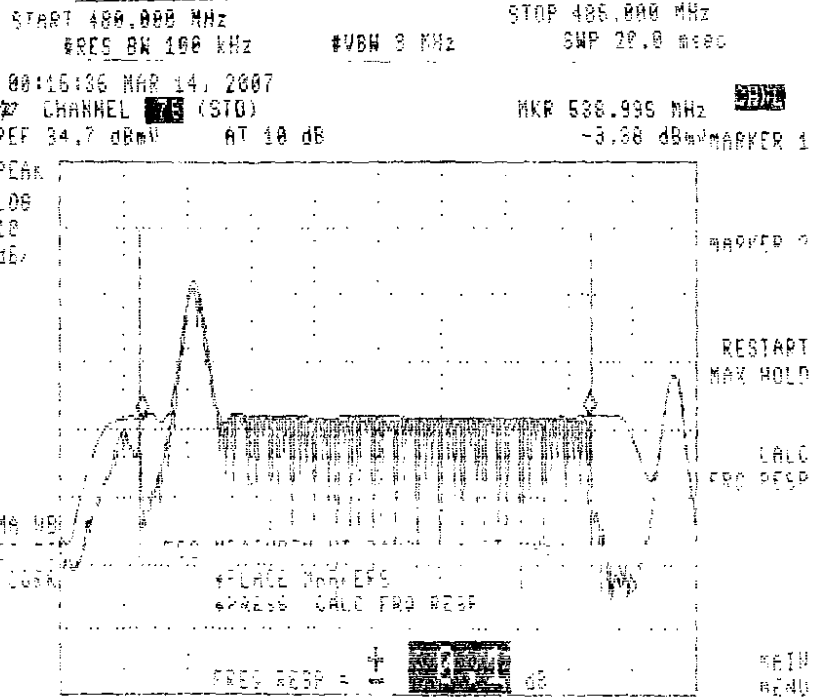
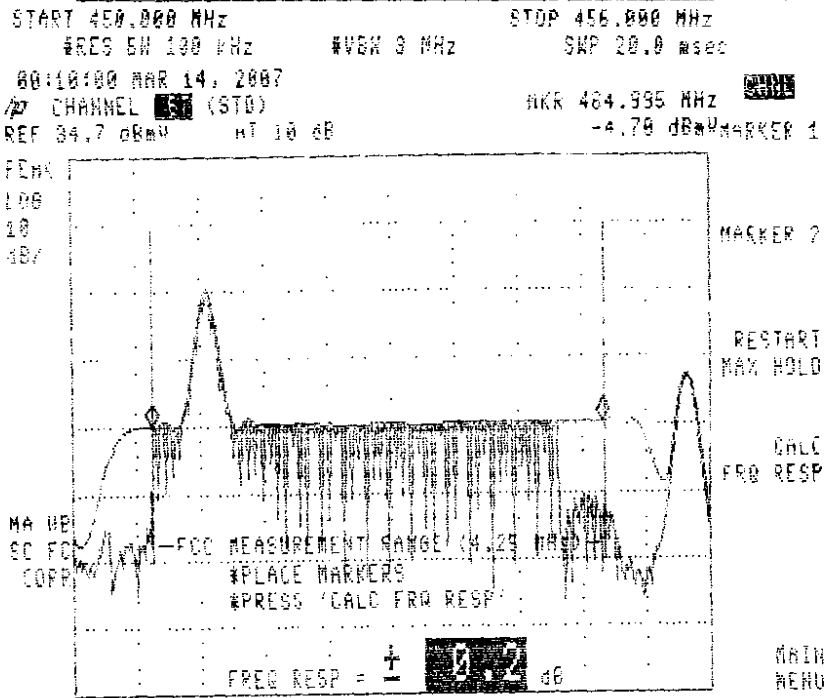
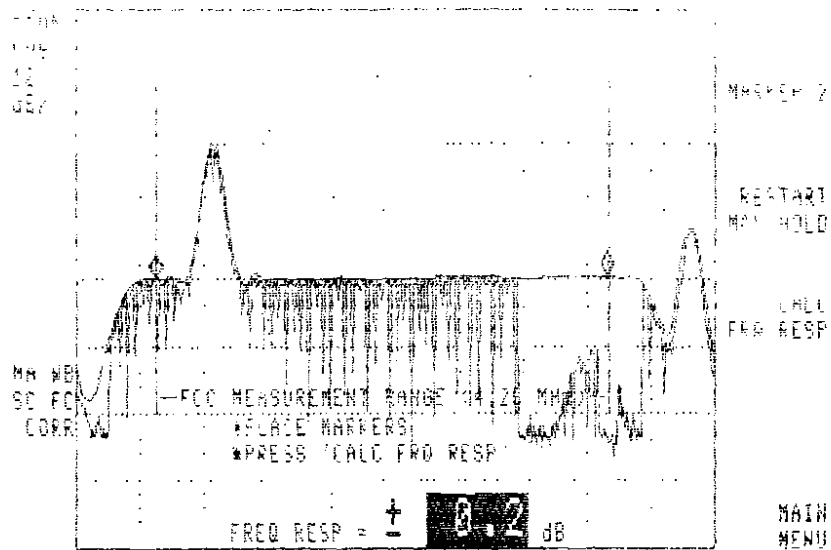


START 324.000 MHz STOP 329.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec
 23:54:52 MAR 13, 2007
 CHANNEL **3** (STD) MARK 328.925 MHz **328.925**
 REF 34.7 dBmV AT 10 dB -4.05 dBmV MARKER 1



START 329.000 MHz STOP 334.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

00:10:10 MAR 14, 2007
 CHAN 31 (STD)
 REF 34.7 dBmV AT 10 dB



TESTPOINT 1, PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION**VISUAL CARRIER LEVEL VARIATION TEST**

System Name : Binghamton **Test Location** : Off Rt.26 Whitney Point
Date : 02/22/2007 **Performed By** : John Hriciso
Meter Serial Number : 9343238

		TEMP F						TEMP F					
		30.00	37.40	35.60	30.20			30.00	37.40	35.60	30.20		
		TIME						TIME					
		09:42:00	15:41:00	21:41:00	03:41:00			09:42:00	15:41:00	21:41:00	03:41:00		
CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR	CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR
2	55 2500	11 20	11 40	12 30	12 50	1 3	DD(40)	319 2625	15 90	15 80	18 70	18 40	2 9
3	61 2500	11 80	11 80	13 00	13 20	1 4	EE(41)	325 2625	16 40	16 30	18 90	18 80	2 6
4	67 2500	11 90	12 00	13 60	13 50	1 7	FF(42)	331 2750	16 70	16 70	19 30	19 20	2 6
5	77 2500	11 30	11 30	12 40	12 70	1 4	GG(43)	337 2625	16 90	16 80	19 40	19 30	2 6
6	83 2500	11 70	11 50	12 70	12 90	1 4	HH(44)	343 2625	16 40	16 70	19 20	19 00	2 8
A-9(95)	91 2500						II(45)	349 2625	16 60	16 40	19 00	18 90	2 6
A-4(96)	97 2500						JJ(46)	355 2625	16 40	16 50	19 10	19 10	2 7
A-3(97)	103 2500						KK(47)	361 2625	16 90	16 90	19 50	19 50	2 6
A-2(98)	109 2750						LL(48)	367 2625	16 30	16 50	19 00	19 50	3 2
A-1(99)	115 2750	11 00	11 50	12 70	12 80	1 8	MM(49)	373 2625	16 00	16 20	18 80	19 00	3
A(14)	121 2625	10 00	10 30	11 80	12 00	2	NN(50)	379 2625	16 10	15 70	19 10	19 20	3 5
B(15)	127 2625	8 80	9 10	11 30	11 40	2 6	OO(51)	385 2625	16 10	16 40	19 00	19 10	3
C(16)	133 2625	11 10	11 20	12 80	12 30	1 7	PP(52)	391 2625	15 50	15 70	18 40	18 70	3 2
D(17)	139 2500	11 90	12 40	14 30	13 60	2 4	QQ(53)	397 2625	15 60	15 90	18 30	18 90	3 3
E(18)	145 2500	12 30	12 80	14 30	14 40	2 1	RR(54)	403 2500	15 60	15 70	18 40	19 10	3 5
F(19)	151 3210	12 30	12 80	14 40	14 50	2 2	SS(55)	409 2500	15 30	15 70	18 50	18 70	3 4
G(20)	157 2500	12 50	12 80	14 90	14 80	2 4	TT(56)	415 2500	15 20	15 70	18 40	18 40	3 2
H(21)	163 2500	13 10	13 10	15 20	14 70	2 1	UU(57)	421 2500	15 10	15 40	18 10	18 30	3 2
I(22)	169 2500	14 90	14 90	16 40	15 90	1 5	VV(58)	427 2500	15 60	15 90	18 60	18 90	3 3
7	175 2500	14 80	15 00	17 20	17 40	2 6	WW(59)	433 2500	15 60	15 50	18 50	18 80	3 3
8	181 2500	14 20	14 20	16 10	16 30	2 1	XX(60)	439 2500	15 10	15 50	18 20	18 40	3 3
9	187 2500	13 20	13 30	15 40	15 70	2 5	YY(61)	445 2500	15 50	15 60	18 50	18 70	3 2
10	193 2500	13 60	13 80	15 70	15 50	2 1	ZZ(62)	451 2500	15 90	16 10	19 00	19 10	3 2
11	199 2500	13 30	13 60	15 50	15 30	2 2	63	457 2500	16 40	16 60	19 20	19 30	2 9
12	205 2500	13 30	13 60	15 50	15 30	2 2	64	463 2500	15 90	16 00	18 60	19 00	3 1
13	211 2500	13 70	13 80	15 50	15 00	1 8	65	469 2500	15 80	16 00	19 20	19 10	3 4
J(23)	217 2500	13 70	13 60	15 70	15 20	2 1	66	475 2500	15 80	16 00	18 60	19 20	3 4
K(24)	223 2500	13 90	13 90	16 00	15 90	2 1	67	481 2500	15 50	15 90	18 70	18 60	3 2
L(25)	229 2625	13 60	13 50	15 80	15 60	2 3	68	487 2500	15 60	16 20	19 00	19 30	3 7
M(26)	235 2625	13 20	13 30	15 40	14 90	2 2	69	493 2500	16 40	16 70	19 60	19 90	3 5
N(27)	241 2625	13 50	13 40	16 00	15 50	2 6	70	499 2500	16 40	15 50	19 60	20 00	3 6
O(28)	247 2625	13 20	13 40	15 60	15 30	2 4	71	505 2500	16 80	17 10	20 10	20 30	3 5
P(29)	253 2625	14 30	14 10	16 40	16 20	2 3	72	511 2500	16 80	17 30	20 20	20 50	3 7
Q(30)	259 2625	14 50	14 50	16 90	16 70	2 4	73	517 2500	17 40	17 30	20 20	20 70	3 4
R(31)	265 2625	14 80	14 60	17 00	16 90	2 4	74	523 2500	16 80	17 00	20 30	20 40	3 6
S(32)	271 2625	14 70	14 60	17 00	16 70	2 4	75	529 2500	17 40	17 50	20 50	21 00	3 6
T(33)	277 2625	14 90	14 80	17 30	17 20	2 5	76	535 2500	17 50	17 50	20 70	21 40	3 9
U(34)	283 2625	14 60	14 50	16 80	16 70	2 3	77	541 2500					
V(35)	289 2625	15 30	15 30	17 90	17 30	2 6	78	547 2500	18 40	18 70	22 00	22 80	4 4
W(36)	295 2625	15 60	15 40	17 90	18 00	2 6	79	553 2500					
AA(37)	301 2625	15 50	15 70	18 20	18 10	2 7	80	559 2500					
BB(38)	307 2625	16 10	15 80	18 50	18 50	2 7	81	565 2500					
CC(39)	313 2625	16 00	16 00	18 60	18 50	2 6							

Max Non Adjacent Channel Level Diff :- 11.4
 Max Adjacent Channel Level Diff :- 2.3
 Max Variance from last proof of performance test :- 0
 Date of last proof of performance test :- N/A

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

TIME WARNER CABLE - SYRACUSE DIVISION

System Name	:	Binghamton
System Test Point #	:	2
Hub Name	:	Taft Ave.
Location	:	Rt.26 Glen Aubrey
Map Number	:	
Pole Number	:	(3361/3 9000/31)
D.T. Value	:	11
OR Number	:	1
GNA Cascade	:	4
LE Cascade	:	1

TIME WARNER CABLE - SYRACUSE DIVISION

**VISUAL CARRIER LEVEL
VISUAL / AURAL LEVEL DIFFERENCE
(at Test Point, at the end of a 100' Drop)**

System Name : Binghamton **Test Location** : RL26 Glen Aubrey
Date : 02/15/2007 **Time** : 13:08:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)
2	55.2500	16.70	2.60		14.1	DD (40)	319.2625	17.50	3.40		14.1
3	61.2500	17.00	1.90		15.1	EE (41)	325.2625	18.10	3.60		14.5
4	67.2500	16.80	1.60		15.2	FF (42)	331.2750	18.20	4.00		14.2
5	77.2500	15.40	0.80		14.6	GG (43)	337.2625	18.50	3.50		15
6	83.2500	15.60	0.70		14.9	HH (44)	343.2625	17.90	3.70		14.2
A-5 (95)	91.2500	N/A	N/A	N/A		II (45)	349.2625	18.60	3.90		14.7
A-4 (96)	97.2500	N/A	N/A	N/A		JJ (46)	355.2625	18.50	4.20		14.3
A-3 (97)	103.2500	N/A	N/A	N/A		KK (47)	361.2625	18.90	4.70		14.2
A-2 (98)	109.2750	N/A	N/A	N/A		LL (48)	367.2625	19.10	4.60		14.5
A-1 (99)	115.2750	15.70	1.30		14.4	MM (49)	373.2625	19.00	4.80		14.2
A (14)	121.2625	15.40	1.40		14	NN (50)	379.2625	18.90	4.60		14.3
B (15)	127.2625	16.50	2.10		14.4	OO (51)	385.2625	18.80	5.50		13.3
C (16)	133.2625	16.50	2.60		13.9	PP (52)	391.2625	18.50	4.30		14.2
D (17)	139.2500	17.50	3.00		14.5	QQ (53)	397.2625	19.00	4.80		14.2
E (18)	145.2500	17.00	1.90		15.1	RR (54)	403.2500	19.50	5.00		14.5
F (19)	151.3210	16.70	1.60		15.1	SS (55)	409.2500	19.60	5.40		14.2
G (20)	157.2500	16.00	1.80		14.2	TT (56)	415.2500	19.40	5.40		14
H (21)	163.2500	16.60	3.50		13.1	UU (57)	421.2500	19.70	5.20		14.5
I (22)	169.2500	17.90	3.50		14.4	VV (58)	427.2500	20.20	6.20		14
7	175.2500	18.20	4.50		13.7	WW (59)	433.2500	19.60	5.30		14.3
8	181.2500	17.90	3.80		14.1	XX (60)	439.2500	19.50	5.60		13.9
9	187.2500	17.40	2.90		14.5	YY (61)	445.2500	19.70	5.30		14.4
10	193.2500	17.40	2.80		14.6	ZZ (62)	451.2500	20.10	5.90		14.2
11	199.2500	16.20	2.20		14	63	457.2500	20.00	5.40		14.6
12	205.2500	16.50	1.70		14.8	64	463.2500	19.50	5.30		14.2
13	211.2500	16.60	2.50		14.1	65	469.2500	20.10	5.00		15.1
J (23)	217.2500	16.30	1.70		14.6	66	475.2500	19.20	5.20		14
K (24)	223.2500	16.70	1.30		15.4	67	481.2500	19.40	4.90		14.5
L (25)	229.2625	15.80	2.20		13.6	68	487.2500	19.20	4.80		14.4
M (26)	235.2625	16.30	2.30		14	69	493.2500	19.50	5.10		14.4
N (27)	241.2625	17.00	2.90		14.1	70	499.2500	19.10	5.10		14
O (28)	247.2625	17.30	3.00		14.3	71	505.2500	19.30	5.10		14.2
P (29)	253.2625	17.90	3.40		14.5	72	511.2500	18.90	4.60		14.3
Q (30)	259.2625	17.90	3.50		14.4	73	517.2500	19.30	5.40		13.9
R (31)	265.2625	17.60	3.80		13.8	74	523.2500	18.90	4.40		14.5
S (32)	271.2625	17.20	2.90		14.3	75	529.2500	19.50	5.00		14.5
T (33)	277.2625	17.30	2.80		14.5	76	535.2500	19.80	5.20		14.6
U (34)	283.2625	17.10	2.60		14.5	77	541.2500	N/A	N/A		N/A
V (35)	289.2625	17.70	3.00		14.7	78	547.2500	20.10	5.60		14.5
W (36)	295.2625	17.60	3.40		14.2	79	553.2500	N/A	N/A		N/A
AA (37)	301.2625	17.40	3.10		14.3	80	559.2500	N/A	N/A		N/A
BB (38)	307.2625	18.20	3.50		14.7	81	565.2500	N/A	N/A		N/A
CC (39)	313.2625	18.00	4.00		14						

Min Channel	: 5	15.400
Max Channel	: VV(58)	20.200
Peak to Valley	: 4.8	

TIME WARNER CABLE - SYRACUSE DIVISION

**IN CHANNEL RESPONSE TEST
CARRIER - TO - NOISE TEST
COHERENT DISTURBANCES TEST
LOW FREQUENCY DISTURBANCES TEST**

System Name : Binghamton

Date : 03/13/2007

Performed By : John Hriciso

Location : Rt.26 Glen Aubrey

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

CHANNEL NUMBER	IN CHANNEL RESPONSE	CARRIER TO NOISE RATIO	DISTORTIONS	CSO	HUM
	(+/- DB)	(DB)	(-DBC) CTB		(%)
4	0.0	46.5	70.6	76.8	0.3
15	0.3	46.2	66.8	74.5	
12	0.0	46.7	59.4	73.9	
27	0.3	46.7	65.2	68.2	
41	0.2	46.5	63.7	68.1	
50	0.2	46.4	60.3	71.5	
62	0.2	46.0	61.8	71.0	
67	0.2	46.0	65.8	72.3	
76	0.2	46.4	60.3	69.0	

TIME WARNER CABLE - SYRACUSE DIVISION

***IN CHANNEL FREQUENCY RESPONSE TEST
(76.605) (a) (6)***

System Name : Binghamton

Date : 03/13/2007

Performed By : John Hriciso

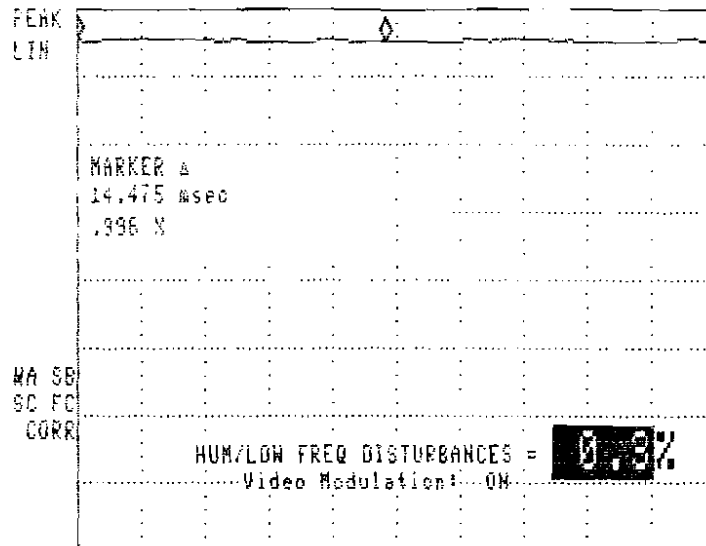
Location : Rt.26 Glen Aubrey

(SEE THE ATTACHED SWEEP TRACES)

01:26:15 MAR 13, 2007
CHANNEL 3 (STD)
REF 22.67 mV AT 10 dB

MR 14.475 msec
.996 %

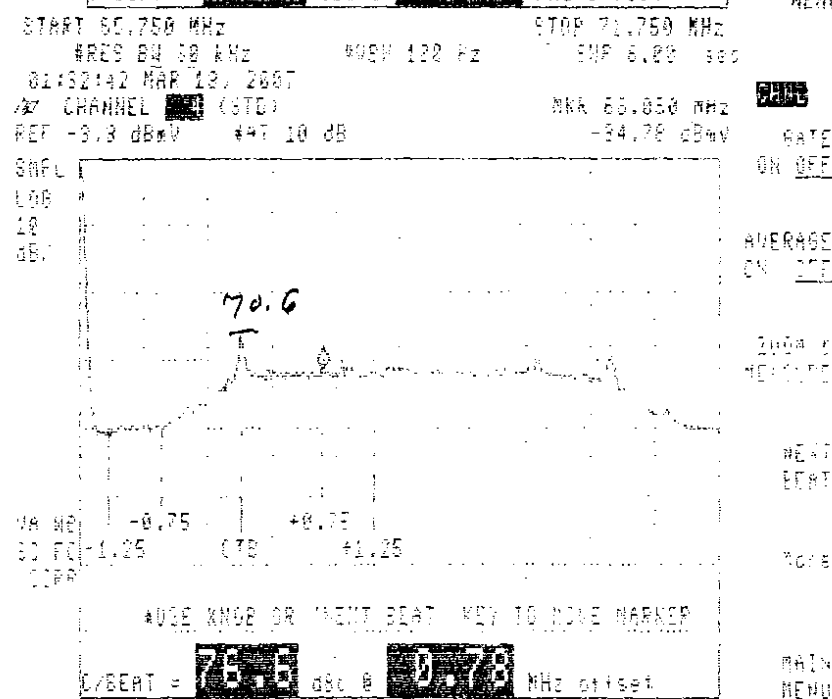
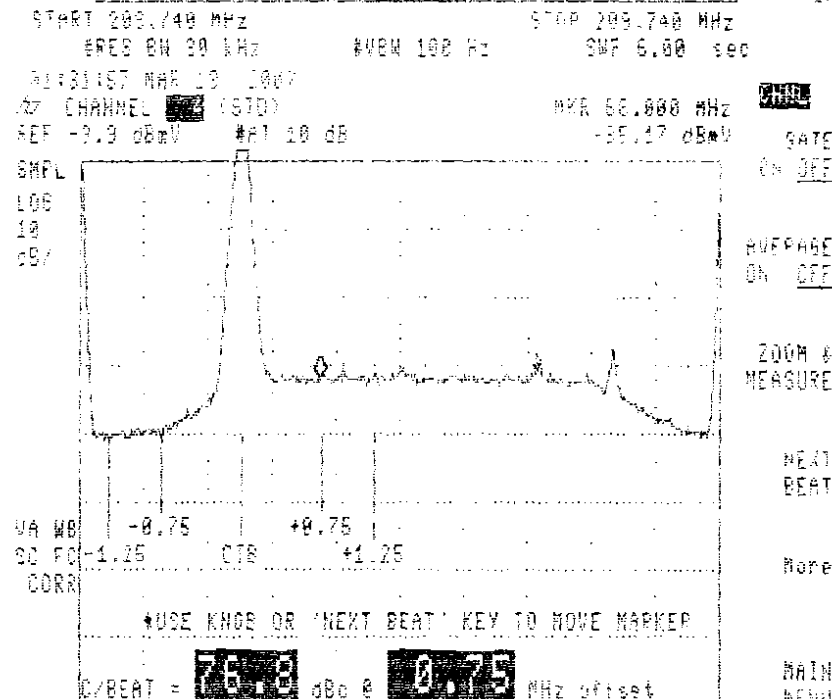
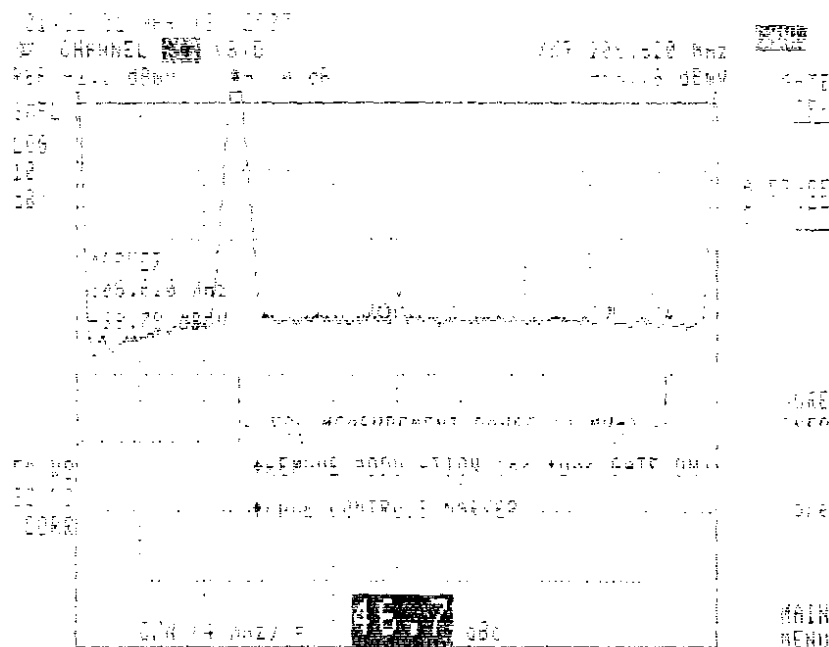
LINE



MORE
INFO

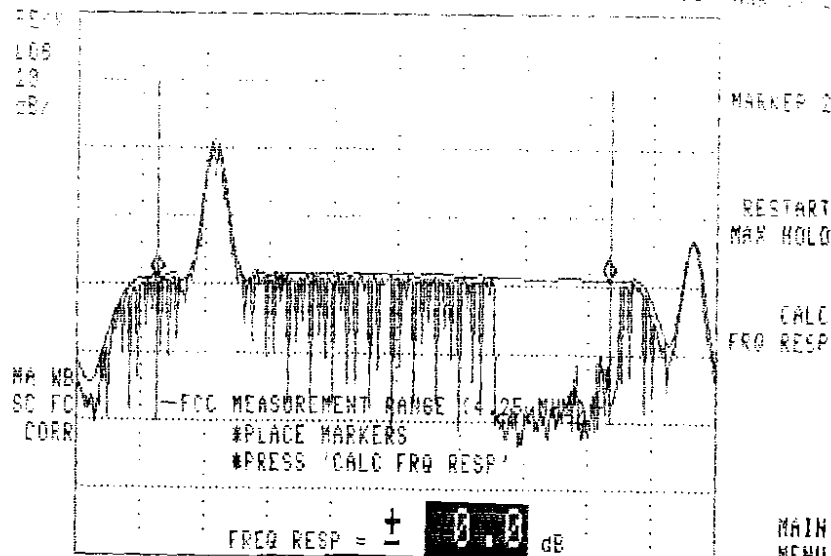
MAIN
MENU

START 67.255 MHz STOP 67.255 MHz
RES BW 1.0 MHz VBW 1 MHz SWP 30.0 msec



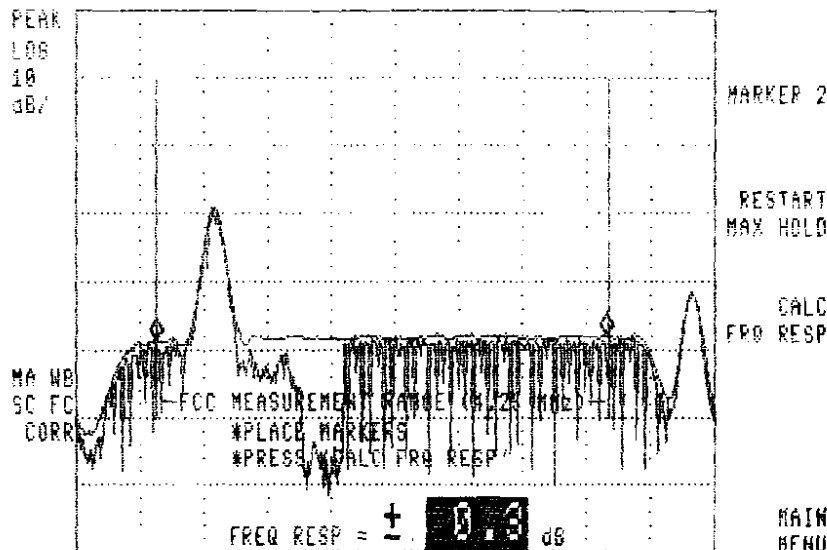
01:33:59 MAR 13, 2007
#2 CHANNEL 15 (STD)
REF 28.5 dBmV AT 10 dB

MR 70.995 MHz
-10.15 dBmV MARKER 1



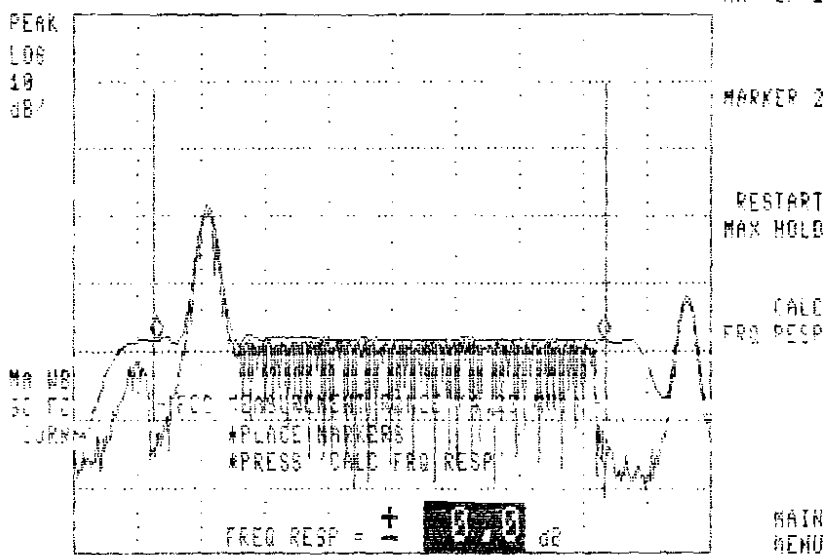
START 55.000 MHz STOP 72.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

01:48:41 MAR 13, 2007
#2 CHANNEL 15 (STD) MR 130.995 MHz
REF 37.9 dBmV AT 10 dB -10.24 dBmV MARKER 1



START 125.000 MHz STOP 132.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

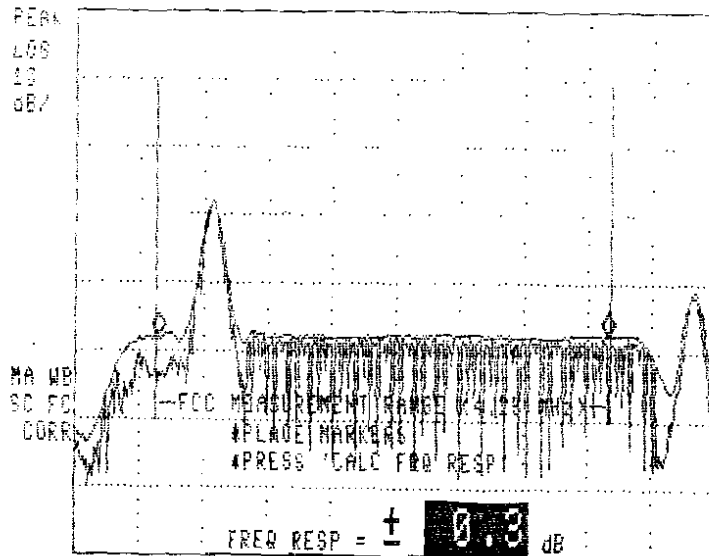
01:55:35 MAR 13, 2007
#2 CHANNEL 15 (STD) MR 200.995 MHz
REF 37.9 dBmV AT 10 dB -10.68 dBmV MARKER 1



11:04:10 MAR 13, 2007
CH07 CHANNEL 222 (STD)
REF 37.9 dBmV AT 10 dB

MKR 244.995 MHz
-3.86 dBmV MARKER 1

PEAK
LOG
10
dB/



MARKER 2

RESTART
MAX HOLD

CALC
FREQ RESP

MAIN
MENU

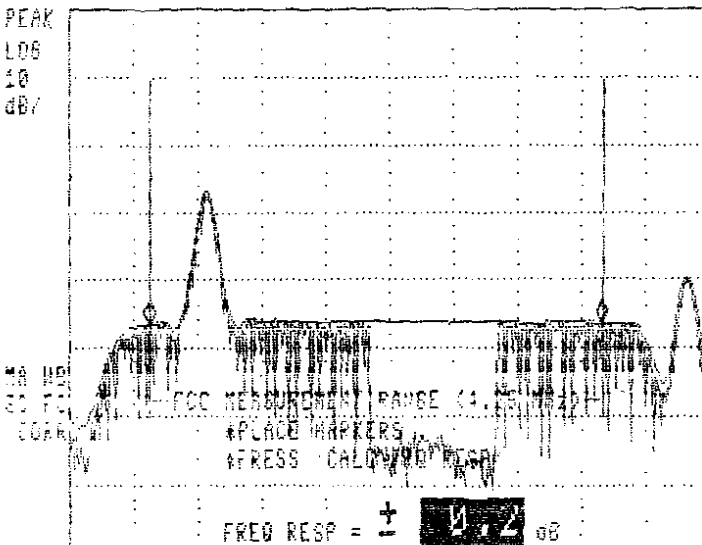
START 240.000 MHz STOP 246.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

02:11:17 MAR 13, 2007

CH07 CHANNEL 222 (STD)
REF 37.9 dBmV AT 10 dB

MKR 328.995 MHz
-6.77 dBmV MARKER 1

PEAK
LOG
10
dB/



MARKER 2

RESTART
MAX HOLD

CALC
FREQ RESP

MAIN
MENU

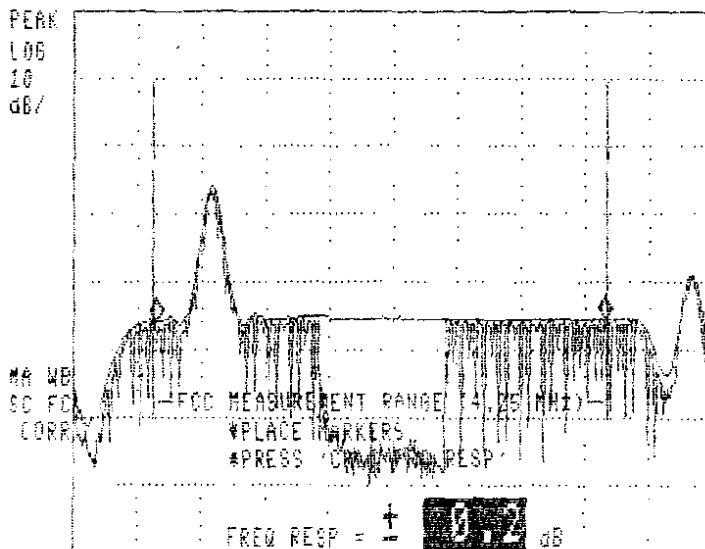
START 324.000 MHz STOP 330.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

02:18:23 MAR 13, 2007

CH07 CHANNEL 222 (STD)
REF 37.9 dBmV AT 10 dB

MKR 378.788 MHz
-8.02 dBmV MARKER 1

PEAK
LOG
10
dB/



MARKER 2

RESTART
MAX HOLD

CALC
FREQ RESP

MAIN
MENU

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

02:28:28 MAR 13, 2007

CH01 CHANNEL 52 (STD)

REF 37.9 dBmV AT 10 dB

MR 454.995 MHz

-7.02 dBmV MARKER 1

PEAK

LOG

10

dB

dB

dB

dB

dB

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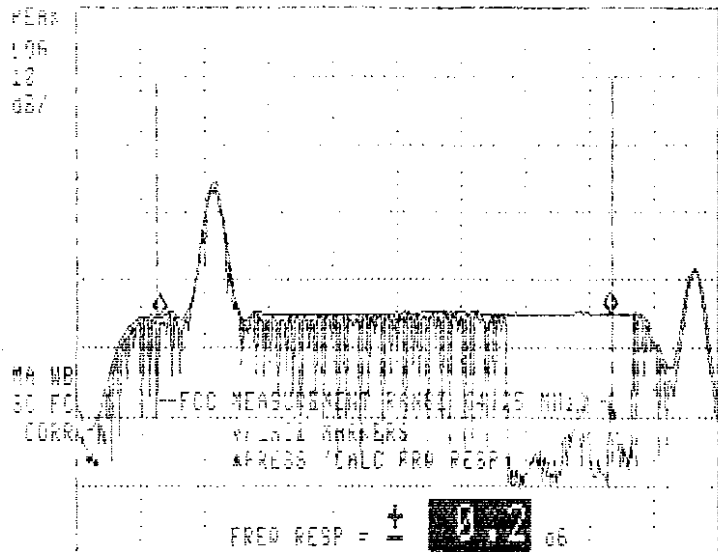
dB

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dB



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

02:33:11 MAR 13, 2007

CH01 CHANNEL 52 (STD)

REF 37.9 dBmV AT 10 dB

MR 484.995 MHz

-7.98 dBmV MARKER 1

PEAK

LOG

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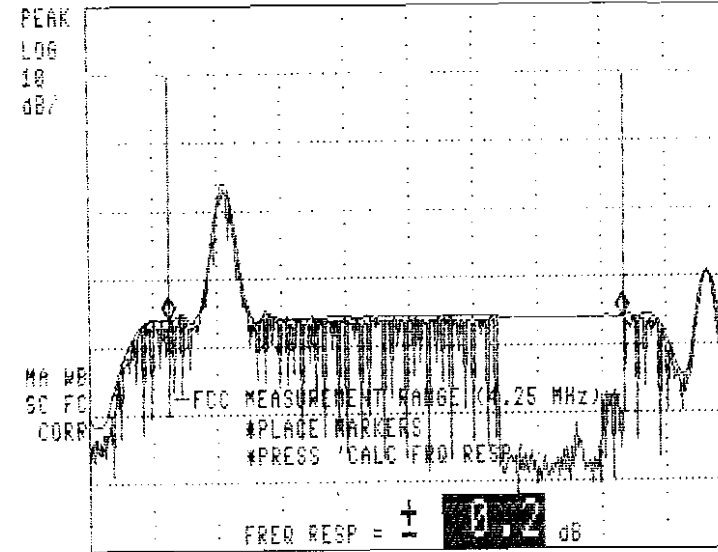
dB

dB

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dB

dB



START 480.000 MHz STOP 486.000 MHz
RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

02:40:39 MAR 13, 2007

CH01 CHANNEL 52 (STD)

REF 37.9 dBmV AT 10 dB

MR 534.780 MHz

-8.23 dBmV MARKER 1

PEAK

LOG

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dB

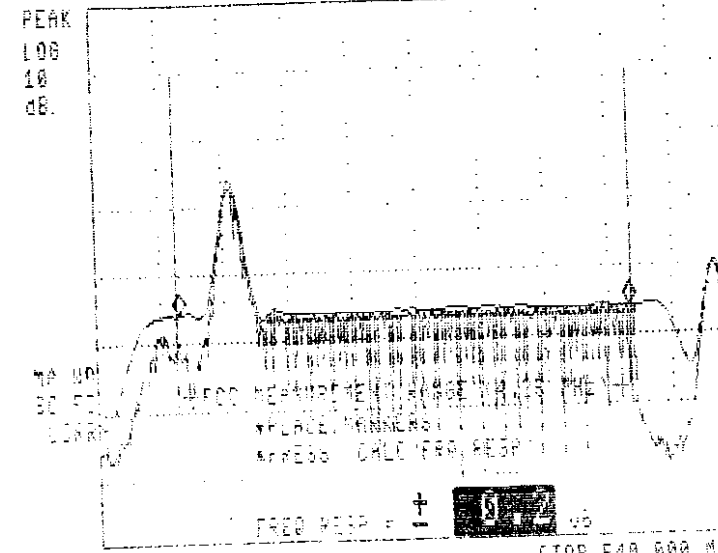
dB

dB

dB

dB

dB



START 530.000 MHz STOP 540.000 MHz

TESTPOINT 2, PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION**VISUAL CARRIER LEVEL VARIATION TEST**

System Name : Binghamton **Test Location** : Rt.26 Glen Aubrey
Date : 02/15/2007 **Performed By** : John Hriciso
Meter Serial Number : 9343239

		TEMP F						TEMP F					
		20.40	19.40	15.80	19.40			20.40	19.40	15.80	19.40		
		TIME						TIME					
		13:08:00	19:07:00	01:07:00	07:07:00			13:08:00	19:07:00	01:07:00	07:07:00		
CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR	CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR
2	55 2500	16.70	16.30	16.80	16.30	0.5	DD(40)	319 2625	17.50	18.00	17.60	17.50	0.5
3	61 2500	17.00	16.50	17.40	17.30	0.9	EE(41)	325 2625	18.10	18.60	18.00	18.00	0.6
4	67 2500	16.80	17.10	16.80	16.70	0.4	FF(42)	331 2750	18.20	18.00	18.50	18.20	0.5
5	77 2500	15.40	15.50	15.70	15.80	0.4	GG(43)	337 2625	18.50	17.90	18.80	17.70	1.1
6	83 2500	15.60	15.90	15.70	15.40	0.5	HH(44)	343 2625	17.90	18.40	18.30	18.30	0.5
A-5(95)	91 2500						II(45)	349 2625	18.60	18.50	18.00	18.00	0.6
A-4(96)	97 2500						JJ(46)	355 2625	18.50	18.20	18.30	18.80	0.6
A-3(97)	103 2500						KK(47)	361 2625	18.90	18.70	19.00	19.10	0.4
A-2(98)	109 2750						LL(48)	367 2625	19.10	19.00	18.50	18.70	0.6
A-1(99)	115 2750	15.70	15.80	16.30	16.30	0.6	MM(49)	373 2625	19.00	18.70	19.00	19.10	0.4
A(14)	121 2625	15.40	15.60	15.80	15.80	0.4	NN(50)	379 2625	18.90	18.80	18.70	18.90	0.2
B(15)	127 2625	16.50	16.50	16.50	16.70	0.2	OO(51)	385 2625	18.80	18.70	19.40	19.00	0.7
C(16)	133 2625	16.50	16.90	17.80	16.70	1.3	PP(52)	391 2625	18.50	18.30	18.60	19.00	0.7
D(17)	139 2500	17.50	18.20	18.10	18.60	1.1	QQ(53)	397 2625	19.00	19.00	19.40	18.70	0.7
E(18)	145 2500	17.00	17.40	17.60	17.50	0.6	RR(54)	403 2500	19.50	20.00	19.20	19.10	0.9
F(19)	151 3210	16.70	17.10	17.10	16.70	0.4	SS(55)	409 2500	19.60	19.40	20.00	19.70	0.6
G(20)	157 2500	16.00	15.90	16.30	16.70	0.9	TT(56)	415 2500	19.40	19.60	20.40	19.60	1
H(21)	163 2500	16.60	16.30	16.20	17.10	0.9	UU(57)	421 2500	19.70	19.70	19.50	20.60	1.1
I(22)	169 2500	17.90	19.10	19.00	19.30	1.4	VV(58)	427 2500	20.20	20.00	20.40	20.80	0.8
7	175 2500	18.20	18.60	18.80	18.70	0.6	WW(59)	433 2500	19.60	19.40	20.50	19.80	1.1
8	181 2500	17.90	18.10	18.00	17.90	0.2	XX(60)	439 2500	19.50	19.70	20.50	19.70	1
9	187 2500	17.40	18.10	18.20	17.80	0.8	YY(61)	445 2500	19.70	20.00	20.00	19.70	0.3
10	193 2500	17.40	17.40	17.60	17.10	0.5	ZZ(62)	451 2500	20.10	20.50	20.10	21.10	1
11	199 2500	16.20	16.80	16.50	16.30	0.6	63	457 2500	20.00	19.90	20.20	19.80	0.4
12	205 2500	16.50	16.50	16.30	16.30	0.2	64	463 2500	19.50	19.90	19.80	19.70	0.4
13	211 2500	16.60	16.20	15.80	16.30	0.8	65	469 2500	20.10	19.70	20.00	19.60	0.5
J(23)	217 2500	16.30	16.30	16.40	16.20	0.2	66	475 2500	19.20	19.00	19.70	20.10	1.1
K(24)	223 2500	16.70	16.00	16.00	15.60	1.1	67	481 2500	19.40	19.70	19.20	19.30	0.5
L(25)	229 2625	15.80	15.80	15.40	15.40	0.4	68	487 2500	19.20	19.30	19.60	19.60	0.4
M(26)	235 2625	16.30	16.10	16.60	16.10	0.5	69	493 2500	19.50	19.50	19.50	20.00	0.5
N(27)	241 2625	17.00	16.90	16.60	15.90	1.1	70	499 2500	19.10	18.80	19.60	19.20	0.8
O(28)	247 2625	17.30	17.20	16.50	17.00	0.8	71	505 2500	19.30	19.60	20.00	19.00	1
P(29)	253 2625	17.90	17.00	17.40	17.00	0.9	72	511 2500	18.90	20.00	19.30	19.30	1.1
Q(30)	259 2625	17.90	17.50	17.60	17.60	0.4	73	517 2500	19.30	19.10	18.90	19.30	0.4
R(31)	265 2625	17.60	17.80	17.70	16.90	0.9	74	523 2500	18.90	18.90	19.70	19.70	0.8
S(32)	271 2625	17.20	17.00	16.90	17.50	0.6	75	529 2500	19.50	19.20	19.10	19.00	0.5
T(33)	277 2625	17.30	17.80	17.00	17.40	0.8	76	535 2500	19.80	20.00	20.10	19.20	0.9
U(34)	283 2625	17.10	17.10	17.10	17.00	0.1	77	541 2500					
V(35)	289 2625	17.70	17.10	17.20	17.10	0.6	78	547 2500	20.10	20.20	21.00	20.70	0.9
W(36)	295 2625	17.60	17.00	17.90	17.60	0.9	79	553 2500					
AA(37)	301 2625	17.40	17.50	17.70	18.20	0.8	80	559 2500					
BB(38)	307 2625	18.20	18.10	18.30	17.80	0.5	81	565 2500					
CC(39)	313 2625	18.00	17.90	17.80	18.10	0.3							

Max Non Adjacent Channel Level Diff :- 5.7
 Max Adjacent Channel Level Diff :- 2.8
 Max Variance from last proof of performance test :- 0
 Date of last proof of performance test :- N/A

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

TIME WARNER CABLE - SYRACUSE DIVISION

<i>System Name</i>	:	Binghamton
<i>System Test Point #</i>	:	3
<i>Hub Name</i>	:	Taft Ave
<i>Location</i>	:	Woodland Rd.Newark Valley
<i>Map Number</i>	:	
<i>Pole Number</i>	:	E-9/T-6
<i>D.T. Value</i>	:	11
<i>OR Number</i>	:	1
<i>GNA Cascade</i>	:	5
<i>LE Cascade</i>	:	2

TIME WARNER CABLE - SYRACUSE DIVISION

**VISUAL CARRIER LEVEL
VISUAL / AURAL LEVEL DIFFERENCE
(at Test Point, at the end of a 100' Drop)**

System Name : Binghamton **Test Location** : Woodland Rd. Newark Valley
Date : 02/26/2007 **Time** : 09:32:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)
2	55.2500	17.50	3.80		13.7	DD (40)	319.2625	19.10	5.30		13.8
3	61.2500	18.30	3.70		14.6	EE (41)	325.2625	20.10	5.30		14.8
4	67.2500	18.50	3.20		15.3	FF (42)	331.2750	20.10	5.80		14.3
5	77.2500	17.70	2.30		15.4	GG (43)	337.2625	20.50	5.40		15.1
6	83.2500	18.50	2.70		15.8	HH (44)	343.2625	19.80	5.90		13.9
A-5 (95)	91.2500	N/A	N/A		N/A	II (45)	349.2625	19.80	6.10		13.7
A-4 (96)	97.2500	N/A	N/A		N/A	JJ (46)	355.2625	20.80	6.70		14.1
A-3 (97)	103.2500	N/A	N/A		N/A	KK (47)	361.2625	21.10	6.90		14.2
A-2 (98)	109.2750	N/A	N/A		N/A	LL (48)	367.2625	21.00	6.90		14.1
A-1 (99)	115.2750	15.90	1.60		14.3	MM (49)	373.2625	21.00	6.70		14.3
A (14)	121.2625	15.50	1.40		14.1	NN (50)	379.2625	21.30	6.80		14.5
B (15)	127.2625	16.30	2.10		14.2	OO (51)	385.2625	20.80	6.80		14
C (16)	133.2625	16.70	2.50		14.2	PP (52)	391.2625	21.00	5.50		15.5
D (17)	139.2500	17.00	3.00		14	QQ (53)	397.2625	21.00	5.90		15.1
E (18)	145.2500	17.30	2.50		14.8	RR (54)	403.2500	20.90	6.30		14.6
F (19)	151.3210	17.20	2.30		14.9	SS (55)	409.2500	21.10	6.60		14.5
G (20)	157.2500	16.90	2.50		14.4	TT (56)	415.2500	20.70	6.40		14.3
H (21)	163.2500	17.00	2.70		14.3	UU (57)	421.2500	20.50	6.10		14.4
I (22)	169.2500	17.30	4.10		13.2	VV (58)	427.2500	21.10	6.60		14.5
7	175.2500	18.10	4.40		13.7	WW (59)	433.2500	20.70	6.40		14.3
8	181.2500	17.40	3.70		13.7	XX (60)	439.2500	20.20	6.20		14
9	187.2500	17.20	3.30		13.9	YY (61)	445.2500	20.60	6.70		13.9
10	193.2500	18.20	3.70		14.5	ZZ (62)	451.2500	21.10	6.60		14.5
11	199.2500	17.50	3.20		14.3	63	457.2500	21.40	6.70		14.7
12	205.2500	17.70	3.30		14.4	64	463.2500	20.50	6.30		14.2
13	211.2500	18.20	3.90		14.3	65	469.2500	21.10	6.30		14.8
J (23)	217.2500	17.60	3.60		14	66	475.2500	20.80	6.60		14.2
K (24)	223.2500	18.10	3.50		14.6	67	481.2500	20.20	6.20		14
L (25)	229.2625	17.70	3.50		14.2	68	487.2500	20.60	5.90		14.7
M (26)	235.2625	17.50	3.70		13.8	69	493.2500	20.60	6.10		14.5
N (27)	241.2625	18.40	3.80		14.6	70	499.2500	20.40	6.10		14.3
O (28)	247.2625	17.80	3.80		14	71	505.2500	21.10	6.30		14.8
P (29)	253.2625	18.50	4.20		14.3	72	511.2500	20.90	5.70		15.2
Q (30)	259.2625	19.00	4.70		14.3	73	517.2500	20.50	6.30		14.2
R (31)	265.2625	18.70	4.30		14.4	74	523.2500	20.70	5.80		14.9
S (32)	271.2625	18.10	4.00		14.1	75	529.2500	20.80	6.00		14.8
T (33)	277.2625	18.10	3.80		14.3	76	535.2500	20.10	6.20		13.9
U (34)	283.2625	18.20	3.90		14.3	77	541.2500	N/A	N/A		N/A
V (35)	289.2625	18.50	3.80		14.7	78	547.2500	21.40	6.70		14.7
W (36)	295.2625	19.00	4.30		14.7	79	553.2500	N/A	N/A		N/A
AA (37)	301.2625	18.60	3.90		14.7	80	559.2500	N/A	N/A		N/A
BB (38)	307.2625	18.70	3.50		15.2	81	565.2500	N/A	N/A		N/A
CC (39)	313.2625	18.40	4.20		14.2						

Min Channel : A(14) 15.500

Max Channel : 63 21.400

Peak to Valley : 5.9

TIME WARNER CABLE - SYRACUSE DIVISION

**IN CHANNEL RESPONSE TEST
CARRIER - TO - NOISE TEST
COHERENT DISTURBANCES TEST
LOW FREQUENCY DISTURBANCES TEST**

System Name : Binghamton

Date : 03/13/2007

Performed By : John Hriciso

Location : Woodland Rd.Newark Valley

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

CHANNEL NUMBER	IN CHANNEL RESPONSE	CARRIER TO NOISE RATIO	DISTORTIONS	CSO	HUM
	(+/- DB)	(DB)	(-DBC) CTB		(%)
4	0.0	45.8	69.0	72.6	0.3
15	0.0	45.6	64.2	72.7	
12	0.2	45.8	62.1	70.4	
27	0.3	45.6	62.0	66.0	
41	0.2	45.1	59.3	70.1	
50	0.0	45.8	61.1	68.9	
62	0.1	45.5	59.9	67.3	
67	0.1	45.5	62.1	67.9	
76	0.1	45.5	58.3	71.0	

TIME WARNER CABLE - SYRACUSE DIVISION

***IN CHANNEL FREQUENCY RESPONSE TEST
(76.605) (a) (6)***

System Name : Binghamton

Date : 03/13/2007

Performed By : J. Pratt

Location : Woodland Rd. Newark Valley

(SEE THE ATTACHED SWEEP TRACES)

23:15:02 MAR 12, 2007

CH CHANNEL (STD)

MR 4.5750 msec

CHNL

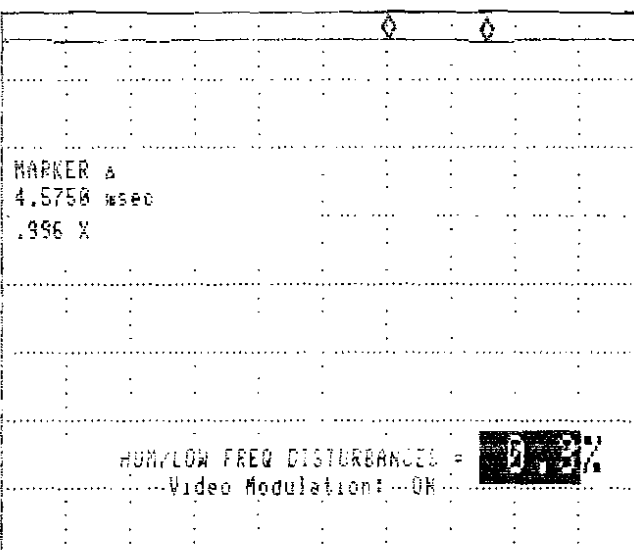
REF 52.57 mV

AT 10 dB

.996 X

PEAK

LIN



NA SB
FC F2
CORR

NOKE
INFO

MAIN
MENU

START 67.140 MHz

STOP 67.140 MHz

#RES BW 1.0 MHz

#VBW 1 MHz

#SWP 30.0 msec

2018747 MAR 12, 2007

CHANNEL 55 (STD)

REF -2.3 dBmV

SMPL

LOG

10

dB

MARKER

88.988 MHz

-25.44 dBmV

FCC MEASUREMENT RANGE (4 MHz)

FA WB

SC FC

CORR

*REMOVE MODULATION (ON LOCK GATE ON)

*NOISE CONTROLS MARKER

C/N (4 MHz) = 43.3 dBc

START 877.768 MHz

STOP 889.768 MHz

#RES BW 30 kHz

#VBW 100 Hz

SMP 5.00 sec

20:19:58 MAR 12, 2007

CHANNEL 55 (STD)

MARK 88.988 MHz

REF -2.3 dBmV

ATT 10 dB

-29.24 dBmV

SMPL

LOG

10

dB

VA WB

SC FC

CORR

-0.75

+0.75

-1.25

+1.25

*USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER

C/BEAT = 72.6 dBc @

1.25

MHz offset

START 65.750 MHz

STOP 71.750 MHz

#RES BW 30 kHz

#VBW 100 Hz

SMP 6.00 sec

20:19:48 MAR 12, 2007

CHANNEL 55 (STD)

MARK 68.525 MHz

REF -2.3 dBmV

ATT 10 dB

-29.58 dBmV

SMPL

LOG

10

dB

69.0

VA WB

SC FC

CORR

-0.75

+0.75

-1.25

+1.25

*USE KNOB OR 'NEXT BEAT' KEY TO MOVE MARKER

C/BEAT = 73.0 dBc @

1.25

MHz offset

START 65.750 MHz

STOP 71.750 MHz

#RES BW 30 kHz

#VBW 100 Hz

SMP 6.00 sec

23:21:15 MAR 12, 2007

CHANNEL 15 (STD)

REF 16.4 dBmV

AT 10 dB

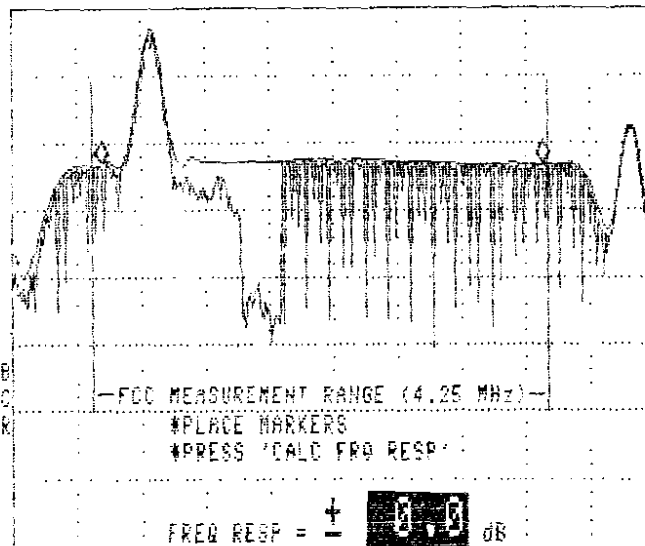
MR 70.906 MHz

SCALE

-6.77 dBmV MARKER 1

PEAK
LOG
10
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FREQ RESP

MAIN
MENU

START 66.000 MHz

#RES BW 100 kHz

#VBW 3 MHz

STOP 72.000 MHz

SWP 20.0 msec

23:41:21 MAR 12, 2007

CHANNEL 15 (STD)

REF 55.4 dBmV

AT 20 dB

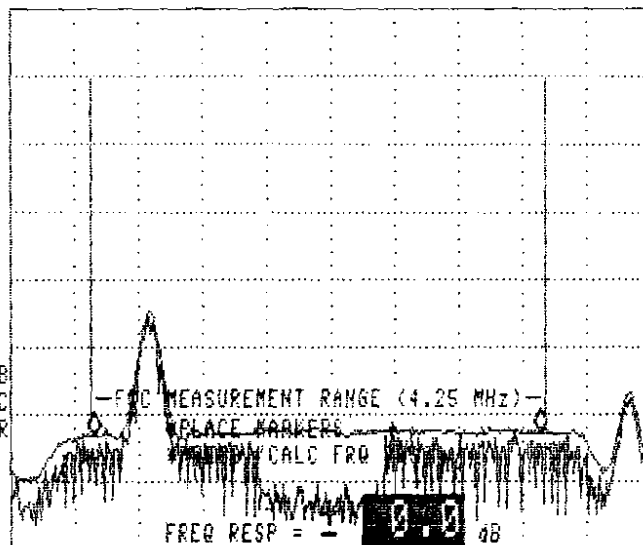
MR 130.965 MHz

SCALE

-7.38 dBmV MARKER 1

PEAK
LOG
10
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FREQ RESP

MAIN
MENU

START 126.000 MHz

#RES BW 100 kHz

#VBW 3 MHz

STOP 132.000 MHz

SWP 20.0 msec

23:43:29 MAR 12, 2007

CHANNEL 15 (STD)

REF 55.4 dBmV

AT 20 dB

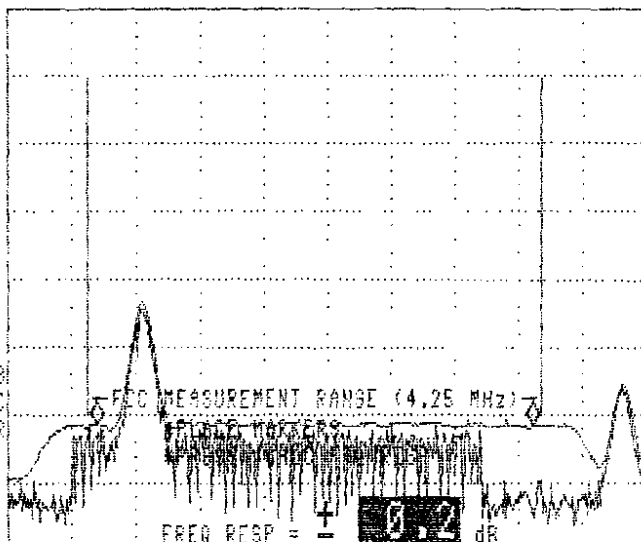
MR 200.335 MHz

SCALE

-6.57 dBmV MARKER 1

PEAK
LOG
10
dB/

MA WB
SC FC
CORR



MARKER 2

RESTART
MAX HOLD

CALC
FREQ RESP

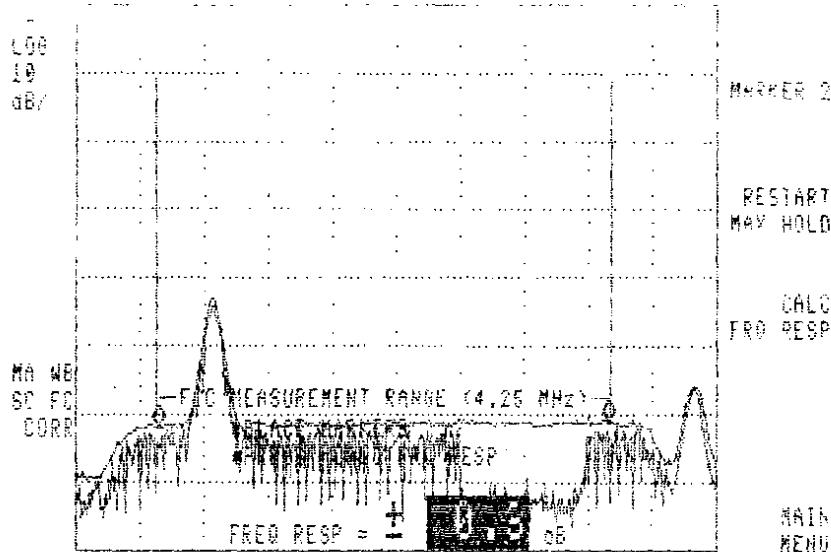
MAIN
MENU

START 194.000 MHz

STOP 210.000 MHz

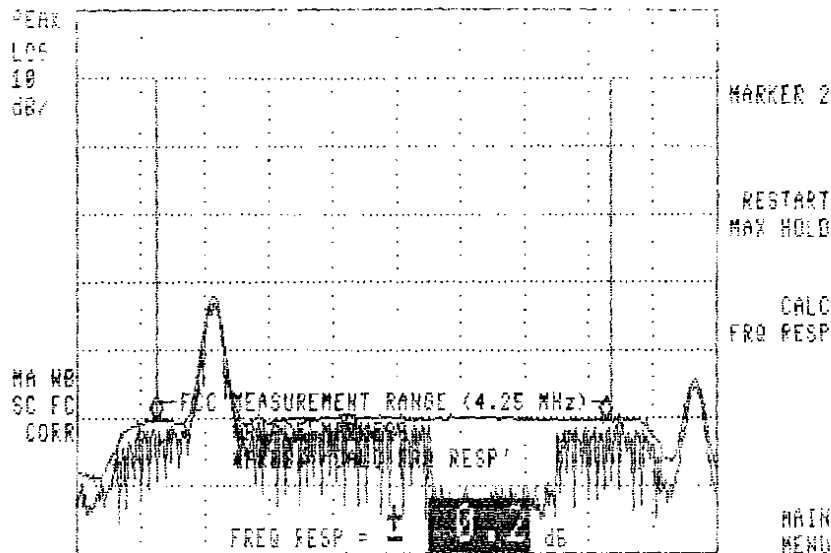
13:07:10 MAR 13, 2007
 27 CHANNEL 2 (STD)
 REF 55.4 dBm AT 20 dB

MARK 246.966 MHz
 -5.13 dBm MARKER 1



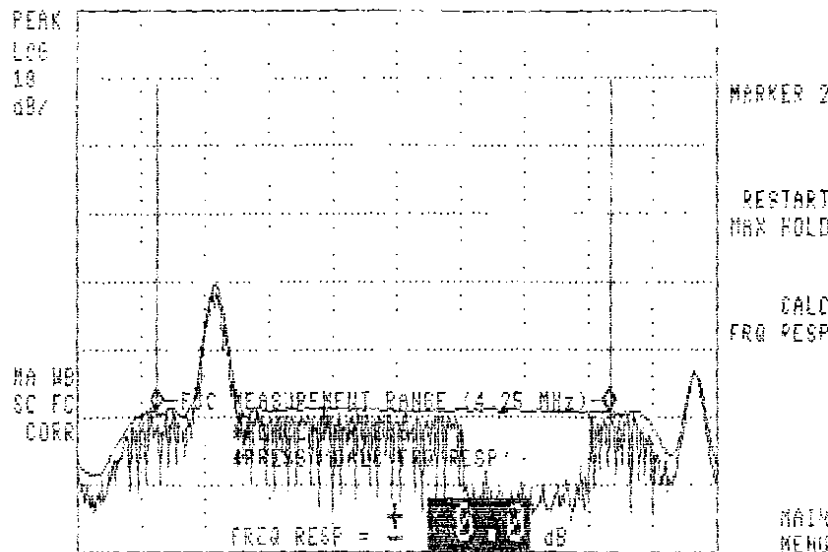
START 240.000 MHz STOP 246.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 ussec

00:04:48 MAR 13, 2007
 27 CHANNEL 2 (STD) MARK 246.966 MHz
 REF 55.4 dBm AT 20 dB -5.13 dBm MARKER 1



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

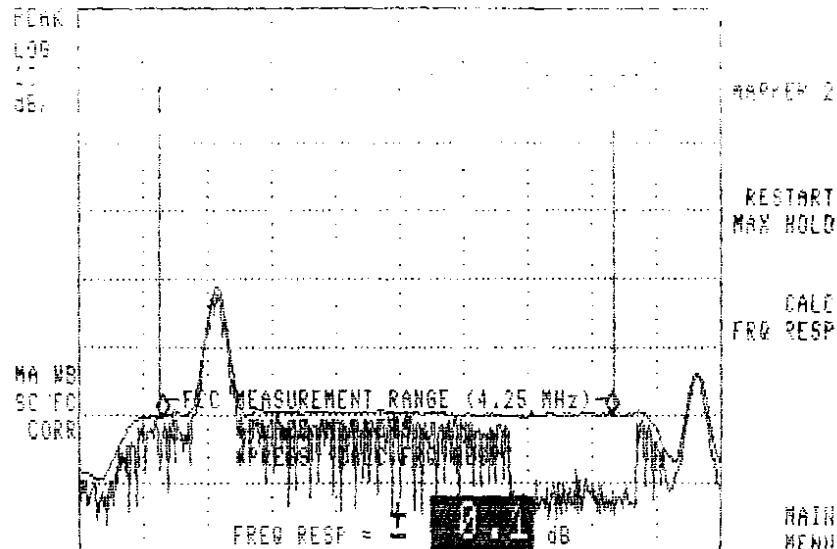
00:12:02 MAR 13, 2007
 27 CHANNEL 2 (STD) MARK 382.996 MHz
 REF 55.4 dBm AT 20 dB -3.92 dBm MARKER 1



START 378.000 MHz STOP 384.000 MHz

00:13:50 MAR 13, 2007
CHANNEL 2 (STD)
REF 56.4 dBmV AT 20 dB

NR 454.995 MHz
-4.56 dBmV MARKER 1

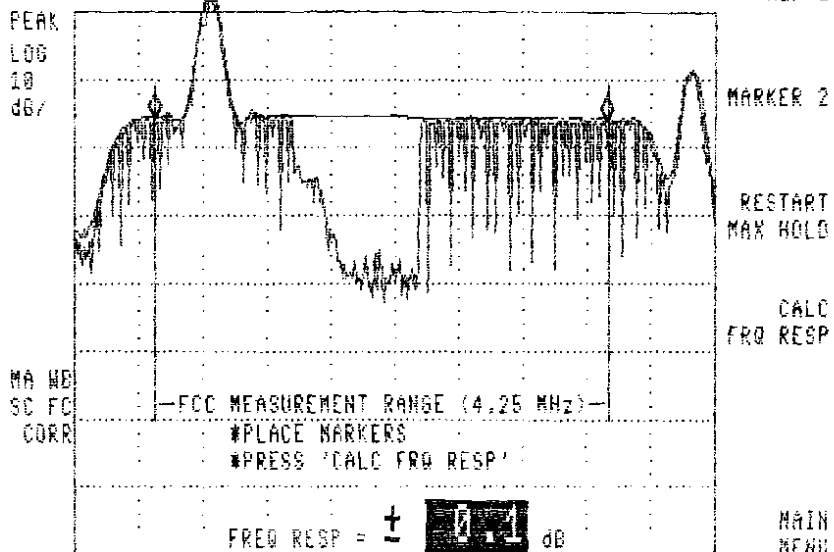


START 450.000 MHz STOP 456.000 MHz
RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

00:30:46 MAR 13, 2007

CHANNEL 2 (STD)
REF 9.0 dBmV AT 10 dB

NR 484.995 MHz
-5.81 dBmV MARKER 1

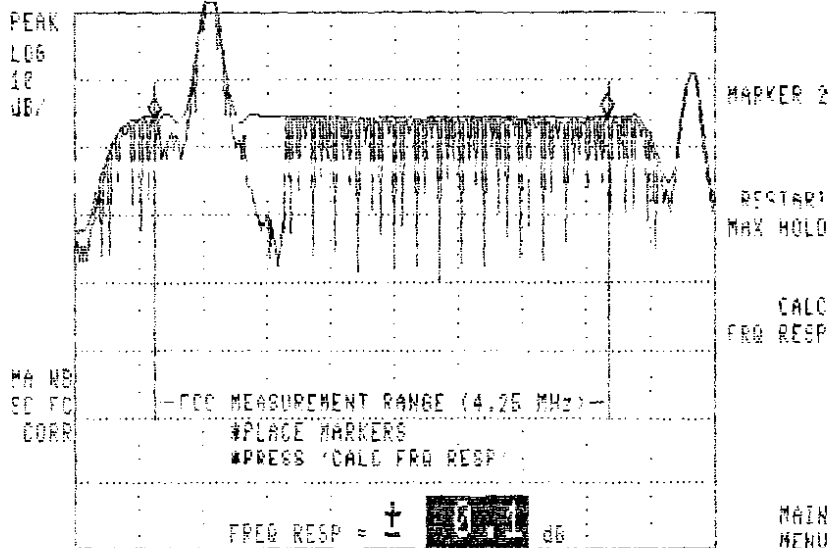


START 480.000 MHz STOP 486.000 MHz
RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

00:40:44 MAR 13, 2007

CHANNEL 2 (STD)
REF 8.8 dBmV AT 10 dB

NR 538.995 MHz
-6.85 dBmV MARKER 1



START 534.000 MHz STOP 540.000 MHz

TESTPOINT 3, PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION**VISUAL CARRIER LEVEL VARIATION TEST**

System Name : Binghamton **Test Location** : Woodland Rd. Newark Valley
Date : 02/26/2007 **Performed By** : John Hriciso
Meter Serial Number : 9343239

		TEMP F					TEMP F						
		37.20	37.40	35.60	33.80		37.20	37.40	35.60	33.80			
		TIME					TIME						
		09:32:00	15:32:00	21:32:00	03:32:00		09:32:00	15:32:00	21:32:00	03:32:00			
CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR	CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR
2	55 2500	17 50	17 40	17 00	16 90	0 6	DD(40)	319 2625	19 10	18 50	18 60	19 10	0 6
3	61 2500	18 30	17 40	16 90	18 10	1 4	EE(41)	325 2625	20 10	19 30	19 20	19 50	0 9
4	67 2500	18 50	18 20	17 90	17 90	0 6	FF(42)	331 2750	20 10	19 40	19 30	19 60	0 8
5	77 2500	17 70	17 00	16 70	17 00	1	GG(43)	337 2625	20 50	19 50	19 50	19 60	1
6	83 2500	18 50	18 30	17 70	17 80	0 8	HH(44)	343 2625	19 80	19 50	20 00	19 60	0 5
A-5(95)	91 2500						II(45)	349 2625	19 80	19 70	19 90	20 10	0 4
A-4(96)	97 2500						JJ(46)	355 2625	20 80	20 70	20 60	20 40	0 4
A-3(97)	103 2500						KK(47)	361 2625	21 10	21 10	20 70	20 50	0 6
A-2(98)	109 2750						LL(48)	367 2625	21 00	21 10	20 70	20 70	0 4
A-1(99)	115 2750	15 90	15 90	15 60	15 80	0 3	MM(49)	373 2625	21 00	20 20	20 20	20 70	0 8
A(14)	121 2625	15 50	16 10	15 70	15 50	0 6	NN(50)	379 2625	21 30	20 90	20 70	21 00	0 6
B(15)	127 2625	16 30	15 90	15 90	15 80	0 5	OO(51)	385 2625	20 80	21 10	20 60	21 60	1
C(16)	133 2625	16 70	16 30	16 60	16 00	0 7	PP(52)	391 2625	21 00	20 00	20 30	20 40	1
D(17)	139 2500	17 00	17 10	16 80	17 90	1 1	QQ(53)	397 2625	21 00	20 80	20 60	21 10	0 5
E(18)	145 2500	17 30	16 70	16 70	16 70	0 6	RR(54)	403 2500	20 90	20 70	20 60	20 80	0 3
F(19)	151 3210	17 20	16 90	16 50	17 10	0 7	SS(55)	409 2500	21 10	20 90	20 90	20 90	0 2
G(20)	157 2500	16 90	16 60	16 50	16 60	0 4	TT(56)	415 2500	20 70	20 90	20 60	20 50	0 4
H(21)	163 2500	17 00	16 40	16 40	16 50	0 6	UU(57)	421 2500	20 50	20 50	20 40	19 90	0 6
I(22)	169 2500	17 30	17 20	17 00	17 60	0 6	VV(58)	427 2500	21 10	20 90	20 60	21 60	1
7	175 2500	18 10	18 30	17 50	18 10	0 8	WW(59)	433 2500	20 70	20 30	20 40	20 50	0 4
8	181 2500	17 40	17 20	16 90	17 00	0 5	XX(60)	439 2500	20 20	20 90	20 20	20 70	0 7
9	187 2500	17 20	17 30	16 70	17 40	0 7	YY(61)	445 2500	20 60	21 20	20 40	20 60	0 8
10	193 2500	18 20	17 70	17 10	18 00	1 1	ZZ(62)	451 2500	21 10	20 80	21 00	20 90	0 3
11	199 2500	17 50	17 30	16 80	16 90	0 7	63	457 2500	21 40	21 20	20 90	21 00	0 5
12	205 2500	17 70	17 50	17 10	17 10	0 6	64	463 2500	20 50	20 20	20 70	20 70	0 5
13	211 2500	18 20	17 20	17 00	17 60	1 2	65	469 2500	21 10	20 60	20 60	20 50	0 6
J(23)	217 2500	17 60	17 00	17 30	17 10	0 6	66	475 2500	20 80	20 30	20 20	20 70	0 6
K(24)	223 2500	18 10	17 20	16 80	17 10	1 3	67	481 2500	20 20	20 10	19 70	20 40	0 7
L(25)	229 2625	17 70	17 00	16 70	17 10	1	68	487 2500	20 60	20 40	20 00	20 10	0 6
M(26)	235 2625	17 50	16 70	16 80	16 60	0 9	69	493 2500	20 60	20 20	20 40	20 30	0 4
N(27)	241 2625	18 40	17 20	17 10	17 50	1 3	70	499 2500	20 40	19 90	20 00	20 00	0 5
O(28)	247 2625	17 80	16 90	17 10	17 00	0 9	71	505 2500	21 10	20 40	20 30	20 30	0 8
P(29)	253 2625	18 50	18 10	17 40	17 60	1 1	72	511 2500	20 90	20 70	20 30	20 70	0 6
Q(30)	259 2625	19 00	18 00	18 00	17 90	1 1	73	517 2500	20 50	20 20	20 30	20 70	0 5
R(31)	265 2625	18 70	18 10	17 70	17 70	1	74	523 2500	20 70	20 00	20 10	20 40	0 7
S(32)	271 2625	18 10	17 80	17 80	18 30	0 5	75	529 2500	20 80	20 20	20 30	20 30	0 6
T(33)	277 2625	18 10	17 60	17 60	17 70	0 5	76	535 2500	20 10	20 60	21 00	20 90	0 9
U(34)	283 2625	18 20	18 50	17 80	17 30	1 2	77	541 2500					
V(35)	289 2625	18 50	17 50	17 50	18 00	1	78	547 2500	21 40	21 50	21 00	20 90	0 6
W(36)	295 2625	19 00	18 10	18 10	18 30	0 9	79	553 2500					
AA(37)	301 2625	18 60	18 10	17 60	18 00	1	80	559 2500					
BB(38)	307 2625	18 70	18 20	18 00	18 10	0 7	81	565 2500					
CC(39)	313 2625	18 40	17 80	17 40	17 70	1							

Max Non Adjacent Channel Level Diff :- 6.1
 Max Adjacent Channel Level Diff :- 1.9
 Max Variance from last proof of performance test :- 0
 Date of last proof of performance test :- N/A

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

TIME WARNER CABLE - SYRACUSE DIVISION

<i>System Name</i>	:	Binghamton
<i>System Test Point #</i>	:	4
<i>Hub Name</i>	:	Taft Ave.
<i>Location</i>	:	Rt.17C Campville
<i>Map Number</i>	:	
<i>Pole Number</i>	:	T-313 (502/176)(75800)
<i>D.T. Value</i>	:	11
<i>OR Number</i>	:	1
<i>GNA Cascade</i>	:	3
<i>LE Cascade</i>	:	1

TIME WARNER CABLE - SYRACUSE DIVISION

**VISUAL CARRIER LEVEL
VISUAL / AURAL LEVEL DIFFERENCE
(at Test Point, at the end of a 100' Drop)**

System Name : Binghamton **Test Location** : Rt.17C Campville
Date : 02/21/2007 **Time** : 16:11:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)
2	55.2500	21.50	7.60		13.9	DD (40)	319.2625	23.30	8.90		14.4
3	61.2500	21.70	6.80		14.9	EE (41)	325.2625	23.30	8.40		14.9
4	67.2500	21.50	5.60		15.9	FF (42)	331.2750	23.40	8.10		15.3
5	77.2500	20.30	5.10		15.2	GG (43)	337.2625	21.80	6.20		15.6
6	83.2500	19.90	5.20		14.7	HH (44)	343.2625	21.00	6.80		14.2
A-5 (95)	91.2500	N/A	N/A		N/A	II (45)	349.2625	21.30	6.90		14.4
A-4 (96)	97.2500	N/A	N/A		N/A	JJ (46)	355.2625	21.30	5.60		15.7
A-3 (97)	103.2500	N/A	N/A		N/A	KK (47)	361.2625	19.50	5.20		14.3
A-2 (98)	109.2750	N/A	N/A		N/A	LL (48)	367.2625	20.30	6.40		13.9
A-1 (99)	115.2750	19.90	5.60		14.3	MM (49)	373.2625	21.40	8.70		12.7
A (14)	121.2625	18.90	4.80		14.1	NN (50)	379.2625	22.60	7.50		15.1
B (15)	127.2625	20.40	5.60		14.8	OO (51)	385.2625	22.20	8.30		13.9
C (16)	133.2625	20.40	5.60		14.8	PP (52)	391.2625	21.80	7.50		14.3
D (17)	139.2500	20.70	6.30		14.4	QQ (53)	397.2625	22.60	7.90		14.7
E (18)	145.2500	20.20	5.20		15	RR (54)	403.2500	22.10	6.60		15.5
F (19)	151.3210	20.30	5.60		14.7	SS (55)	409.2500	21.40	6.10		15.3
G (20)	157.2500	20.30	5.80		14.5	TT (56)	415.2500	20.10	6.10		14
H (21)	163.2500	20.20	5.80		14.4	UU (57)	421.2500	20.60	6.70		13.9
I (22)	169.2500	21.00	6.30		14.7	VV (58)	427.2500	21.60	7.10		14.5
7	175.2500	21.50	6.90		14.6	WW (59)	433.2500	20.90	7.70		13.2
8	181.2500	20.10	6.40		13.7	XX (60)	439.2500	22.30	8.40		13.9
9	187.2500	20.10	5.80		14.3	YY (61)	445.2500	23.10	8.70		14.4
10	193.2500	20.50	6.00		14.5	ZZ (62)	451.2500	23.30	10.10		13.2
11	199.2500	20.20	5.50		14.7	63	457.2500	24.50	10.60		13.9
12	205.2500	20.20	5.70		14.5	64	463.2500	24.40	9.70		14.7
13	211.2500	20.70	6.80		13.9	65	469.2500	24.70	9.80		14.9
J (23)	217.2500	20.90	6.60		14.3	66	475.2500	23.90	9.60		14.3
K (24)	223.2500	21.10	6.50		14.6	67	481.2500	23.90	9.60		14.3
L (25)	229.2625	20.70	6.50		14.2	68	487.2500	23.00	8.30		14.7
M (26)	235.2625	21.10	6.50		14.6	69	493.2500	22.60	7.80		14.8
N (27)	241.2625	21.30	6.90		14.4	70	499.2500	21.70	7.80		13.9
O (28)	247.2625	21.00	6.10		14.9	71	505.2500	23.20	7.80		15.4
P (29)	253.2625	20.20	6.80		13.4	72	511.2500	22.20	7.30		14.9
Q (30)	259.2625	20.30	5.50		14.8	73	517.2500	22.40	9.20		13.2
R (31)	265.2625	19.60	5.80		13.8	74	523.2500	23.20	7.00		16.2
S (32)	271.2625	20.00	6.40		13.6	75	529.2500	21.50	7.10		14.4
T (33)	277.2625	21.40	8.30		13.1	76	535.2500	21.50	8.00		13.5
U (34)	283.2625	21.60	7.10		14.5	77	541.2500	N/A	N/A		N/A
V (35)	289.2625	21.60	7.10		14.5	78	547.2500	22.80	7.90		14.9
W (36)	295.2625	22.60	8.00		14.6	79	553.2500	N/A	N/A		N/A
AA (37)	301.2625	22.70	8.20		14.5	80	559.2500	N/A	N/A		N/A
BB (38)	307.2625	23.80	8.00		15.8	81	565.2500	N/A	N/A		N/A
CC (39)	313.2625	22.60	8.30		14.3						

Min Channel : A(14) 18.900

Max Channel : 65 24.700

Peak to Valley : 5.8

TIME WARNER CABLE - SYRACUSE DIVISION

**IN CHANNEL RESPONSE TEST
CARRIER - TO - NOISE TEST
COHERENT DISTURBANCES TEST
LOW FREQUENCY DISTURBANCES TEST**

System Name : Binghamton

Date : 03/09/2007

Performed By : John Hriciso

Location : Rt.17C Campville

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

CHANNEL NUMBER	IN CHANNEL RESPONSE	CARRIER TO NOISE RATIO	DISTORTIONS	CSO	HUM
	(+/- DB)	(DB)	(-DBC) CTB		(%)
4	0.0	48.8	67.1	72.5	0.3
15	0.2	47.6	63.6	70.0	
12	0.1	47.0	60.1	67.8	
27	0.3	45.3	63.2	67.6	
41	0.2	45.2	63.0	64.5	
50	0.4	45.2	56.5	60.7	
62	0.2	45.3	62.5	72.4	
67	0.1	47.6	65.5	72.0	
76	0.1	47.8	63.0	62.9	

TIME WARNER CABLE - SYRACUSE DIVISION

***IN CHANNEL FREQUENCY RESPONSE TEST
(76.605) (a) (6)***

System Name : Binghamton

Date : 03/09/2007

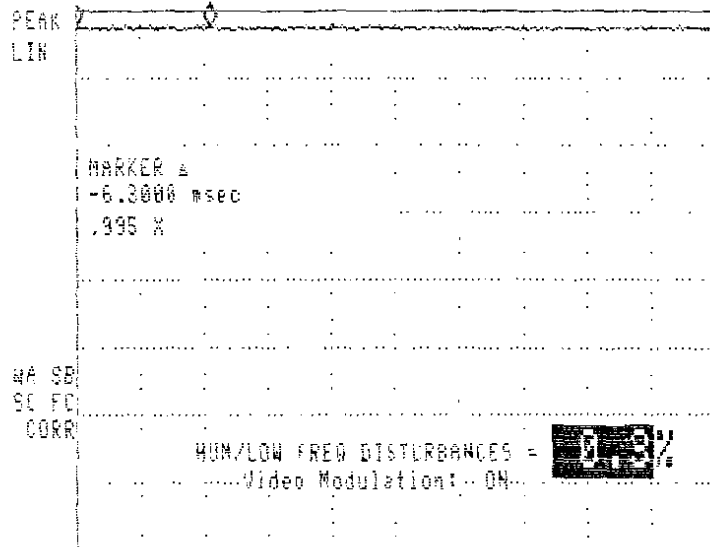
Performed By : John Hriciso

Location : Rt.17C Campville

(SEE THE ATTACHED SWEEP TRACES)

05:24:45 MAR 05, 2007
* CHANNEL 1 (STD) FREQ = -6.3000 msec
REF 215.8 mV AT 10 dB .995 %

CRNL



MORE
INFO

MAIN
MENU

03:29:54 MAR 09, 2007

CH CHANNEL 5 (STD)

REF 9.5 dBmV

#AT 20 dB

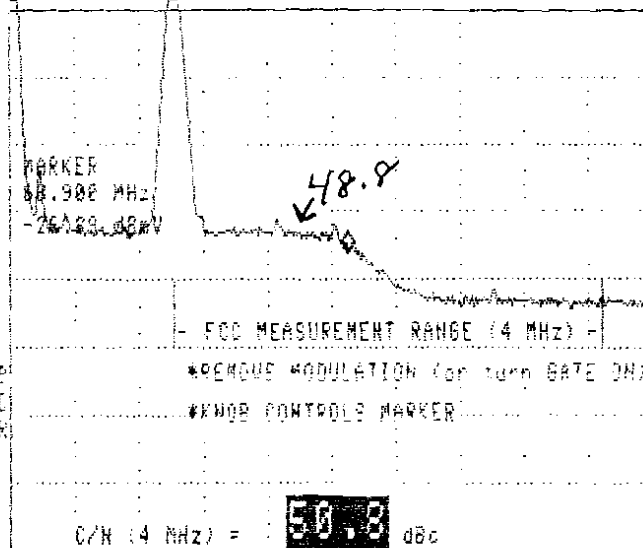
MKR 68.980 MHz

-26.89 dBmV

CHNL

GATE
ON OFF

SNPL
LOG
10
dB/



AVERAGE
ON OFF

MORE
INFO

More

MAIN
MENU

START 65.750 MHz

#RES BW 30 kHz

#VBW 100 Hz

STOP 71.750 MHz

SWP 6.00 sec

03:35:19 MAR 09, 2007

CH CHANNEL 5 (STD)

REF 9.5 dBmV

#AT 20 dB

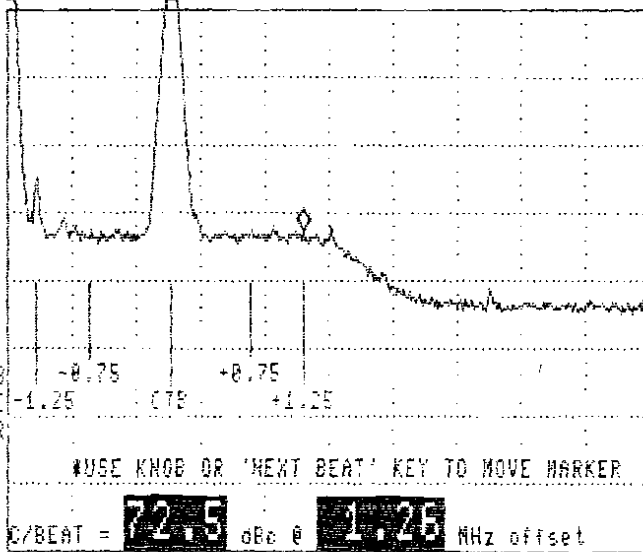
MKR 68.510 MHz

-23.31 dBmV

CHNL

GATE
ON OFF

SNPL
LOG
10
dB/



AVERAGE
ON OFF

ZOOM &
MEASURE

NEXT
BEAT

More

MAIN
MENU

START 65.750 MHz

#RES BW 30 kHz

#VBW 100 Hz

STOP 71.750 MHz

SWP 6.00 sec

03:36:04 MAR 09, 2007

CH CHANNEL 4 (STD)

REF 9.5 dBmV

#AT 20 dB

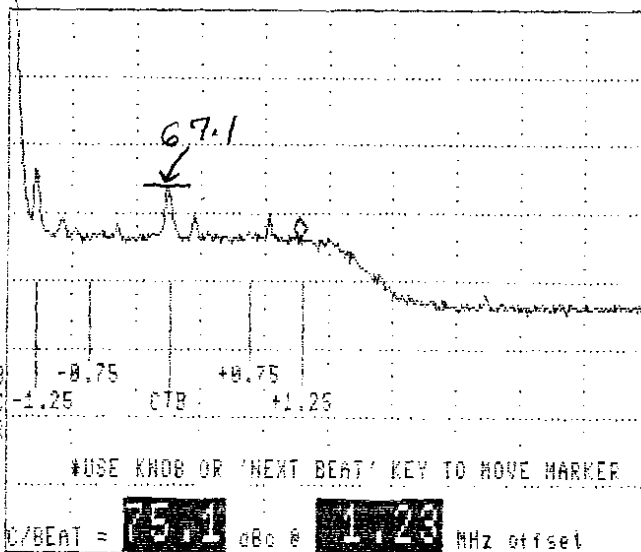
MKR 68.480 MHz

-24.31 dBmV

CHNL

GATE
ON OFF

SNPL
LOG
10
dB/



AVERAGE
ON OFF

ZOOM &
MEASURE

NEXT
BEAT

More

MAIN
MENU

START 65.750 MHz

#RES BW 30 kHz

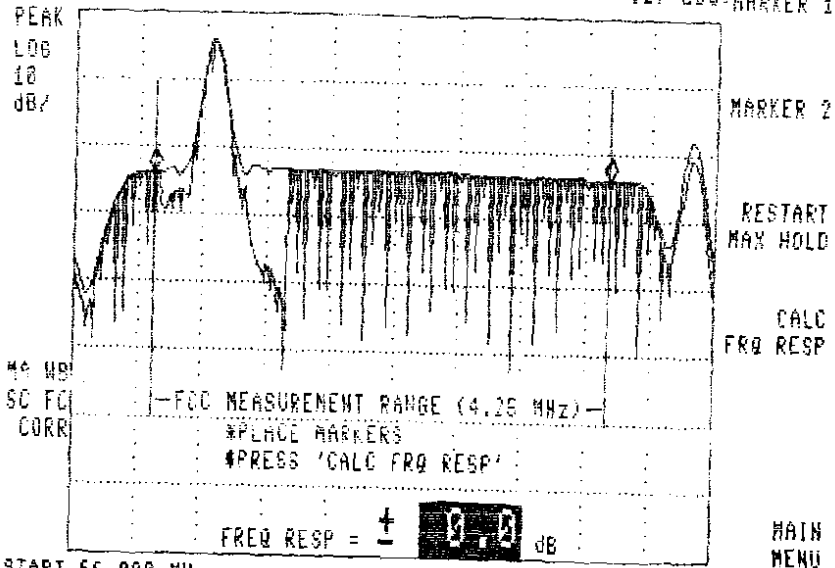
#VBW 100 Hz

STOP 71.750 MHz

SWP 6.00 sec

03:40:40 MAR 09, 2007
/ CHANNEL 1 (STD)
REF 24.2 dBmV AT 10 dB

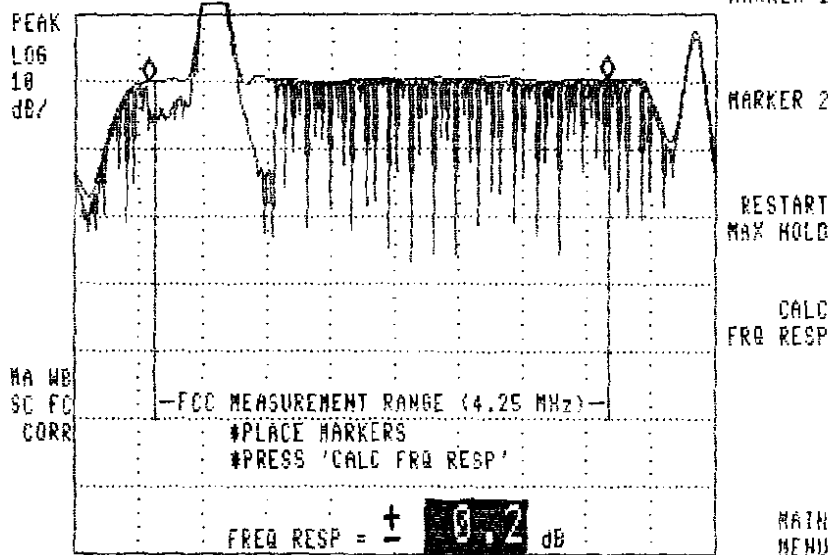
MKR 71.025 MHz
-2.27 dBmV MARKER 1



START 66.000 MHz STOP 72.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

03:52:04 MAR 09, 2007
/ CHANNEL 1 (STD)
REF 7.8 dBmV AT 10 dB

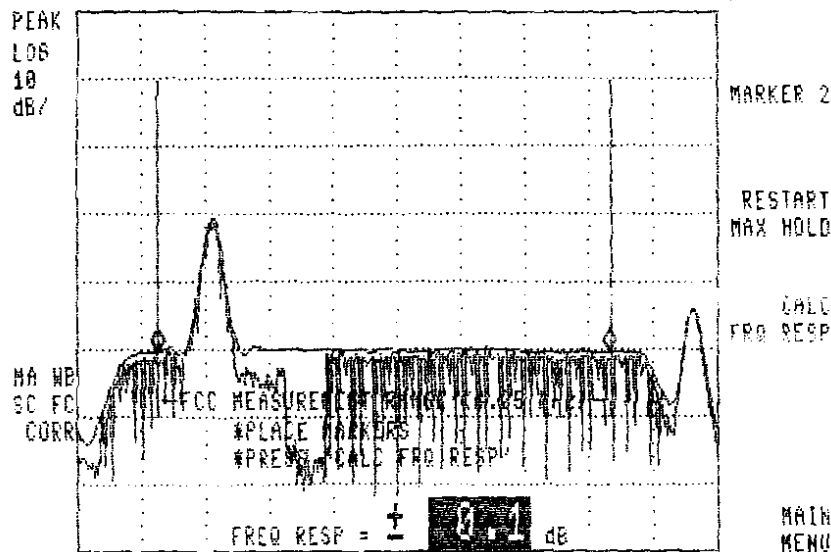
MKR 126.690 MHz
-2.20 dBmV MARKER 1



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

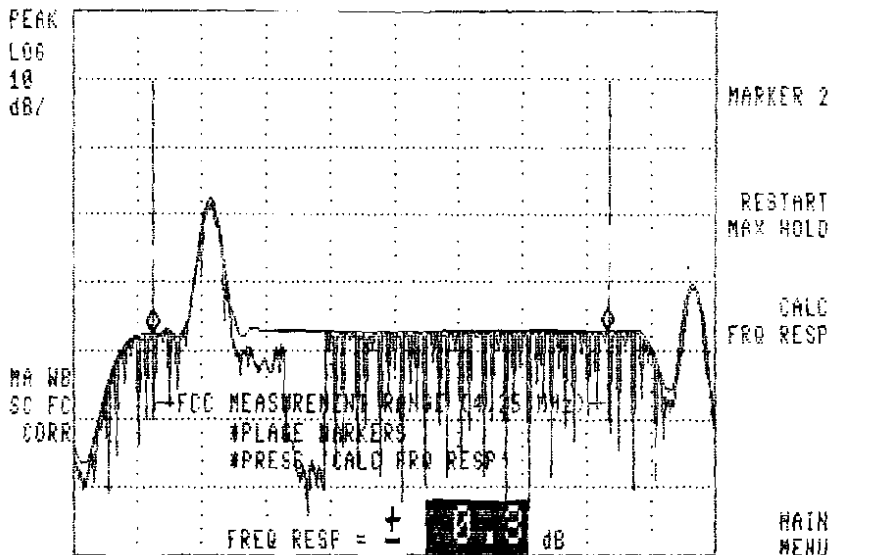
04:15:36 MAR 09, 2007
/ CHANNEL 1 (STD)
REF 49.2 dBmV AT 20 dB

MKR 200.995 MHz
-1.20 dBmV MARKER 1



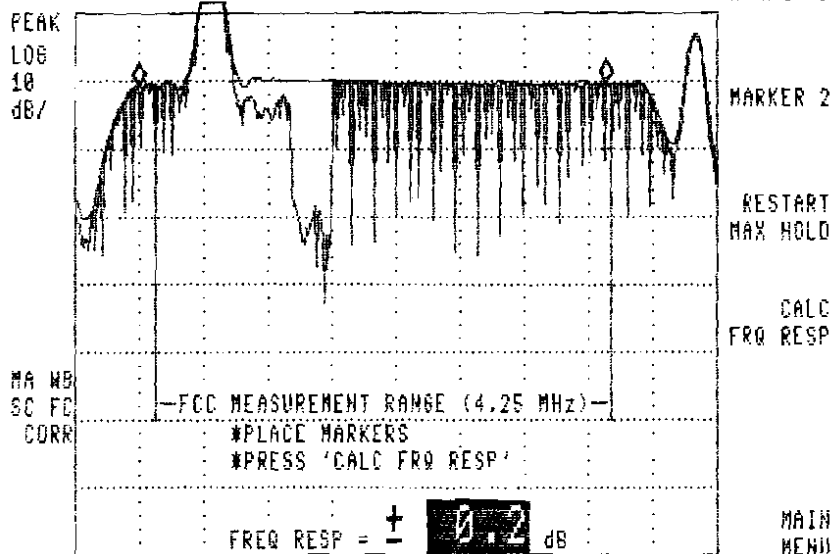
START 194.000 MHz STOP 210.000 MHz

04:28:37 MAR 09, 2007
 CHANNEL 27 (STD) MKR 244.995 MHz
 REF 46.1 dBmV AT 10 dB -1.23 dBmV MARKER 1



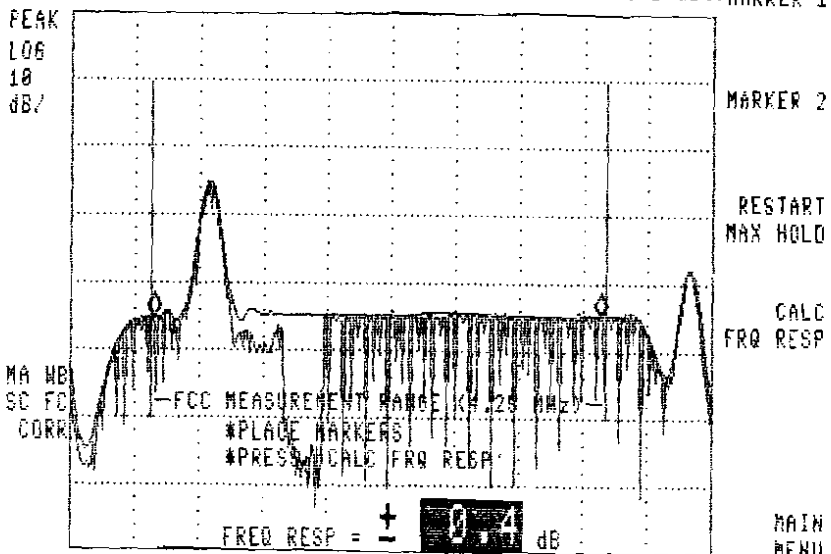
START 240.000 MHz STOP 246.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

04:38:57 MAR 09, 2007
 CHANNEL 42 (STD) MKR 328.965 MHz
 REF 10.7 dBmV AT 10 dB .36 dBmV MARKER 1



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

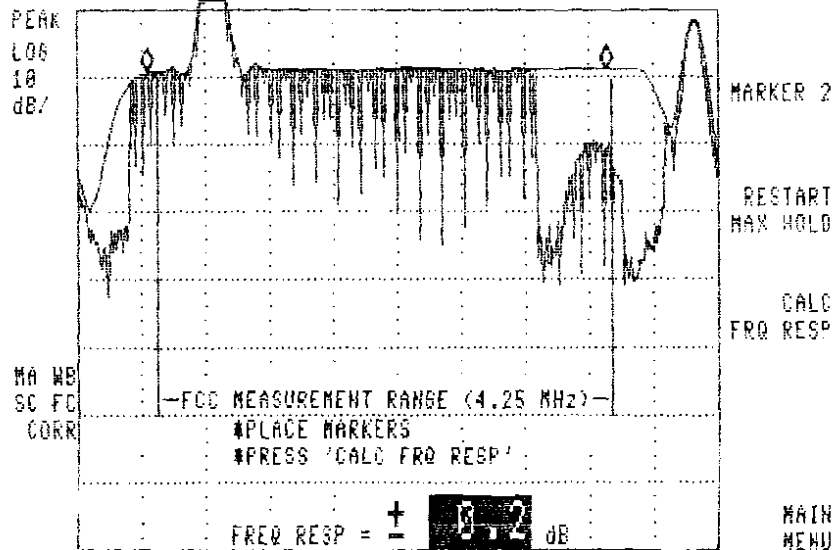
04:50:31 MAR 09, 2007
 CHANNEL 53 (STD) MKR 382.965 MHz
 REF 46.2 dBmV AT 10 dB 1.52 dBmV MARKER 1



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

04:59:57 MAR 09, 2007
/ CHANNEL 32 (STD)
REF 9.3 dBmV AT 10 dB

MR 454.965 MHz
42 dBmV MARKER 1

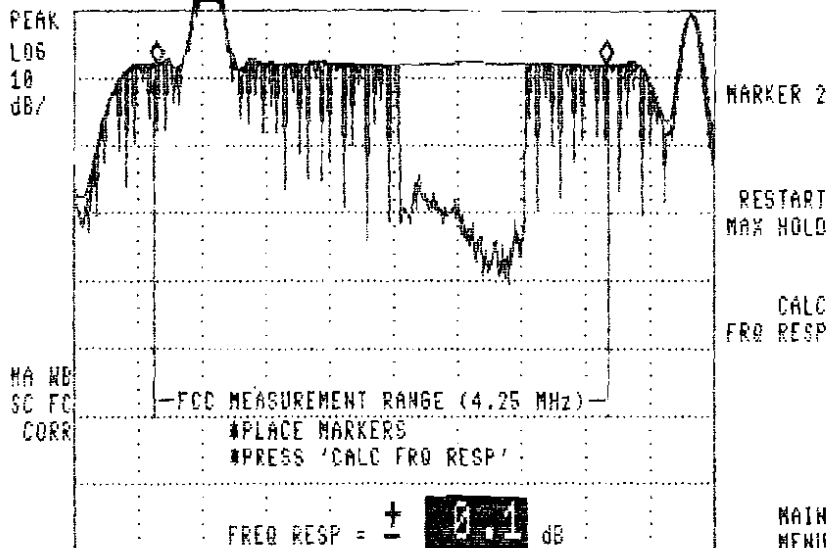


START 450.000 MHz STOP 456.000 MHz
#RES BW 100 kHz #VBW 3 kHz SWP 20.0 mseg

05:00:00 MAR 09, 2007

/ CHANNEL 32 (STD)
REF 8.1 dBmV AT 10 dB

MR 484.995 MHz
.14 dBmV MARKER 1

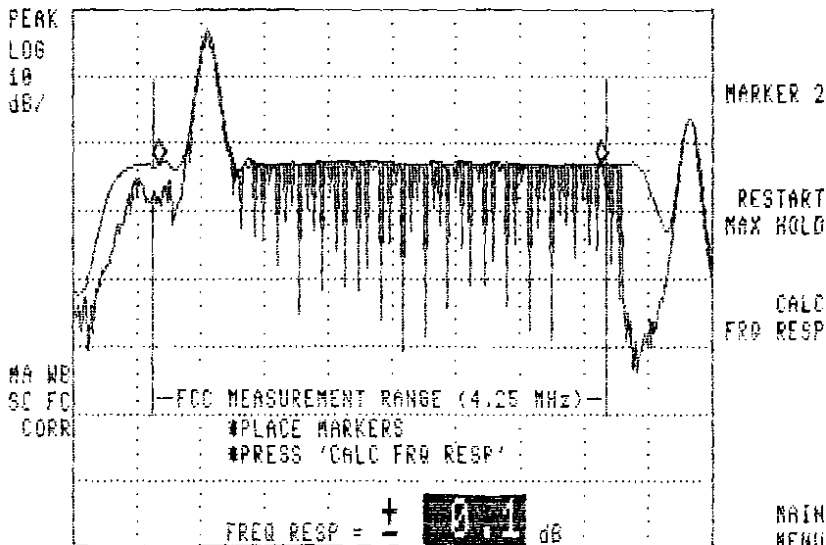


START 480.000 MHz STOP 486.000 MHz
#RES BW 100 kHz #VBW 3 kHz SWP 20.0 mseg

05:21:54 MAR 09, 2007

/ CHANNEL 32 (STD)
REF 29.1 dBmV AT 10 dB

MR 538.965 MHz
-.07 dBmV MARKER 1



START 534.000 MHz STOP 540.000 MHz

TESTPOINT 4, PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION**VISUAL CARRIER LEVEL VARIATION TEST**

System Name : Binghamton **Test Location** : Rt.17C Campville
Date : 02/21/2007 **Performed By** : John Hriciso
Meter Serial Number : 9343239

		TEMP F						TEMP F					
		33.00	32.00	26.60	33.80			33.00	32.00	26.60	33.80		
		TIME						TIME					
		16:11:00	22:11:00	04:11:00	10:11:00			16:11:00	22:11:00	04:11:00	10:11:00		
CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR	CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR
2	55 2500	21 50	21 70	22 10	22 20	0 7	DD(40)	319 2625	23 30	22 10	22 20	23 50	1 4
3	61 2500	21 70	21 50	22 20	22 20	0 9	FF(41)	325 2625	23 30	22 00	22 50	23 90	1 9
4	67 2500	21 50	21 50	21 90	22 00	0 5	FF(42)	331 2750	23 40	21 50	22 40	23 80	2 3
5	77 2500	20 30	19 90	20 30	21 00	1 1	GG(43)	337 2625	21 80	21 40	22 20	22 80	1 4
6	83 2500	19 90	20 30	19 60	20 50	0 9	HH(44)	343 2625	21 00	22 60	22 10	21 20	1 1
A-5(95)	91 2500						II(45)	349 2625	21 30	21 60	22 00	22 10	0 8
A-4(96)	97 2500						JJ(46)	355 2625	21 30	22 10	22 40	21 70	1 1
A-3(97)	103 2500						KK(47)	361 2625	19 50	22 30	23 40	20 30	3 9
A-2(98)	109 2750						LL(48)	367 2625	20 30	21 90	24 20	20 90	3 9
A-1(99)	115 2750	19 90	19 30	20 00	20 50	1 2	MM(49)	373 2625	21 40	22 30	23 20	21 90	1 8
A(14)	121 2625	18 90	19 60	19 90	20 20	1 3	NN(50)	379 2625	22 60	23 00	23 00	23 20	0 6
B(15)	127 2625	20 40	19 80	20 20	21 00	1 2	OO(51)	385 2625	22 20	22 20	24 20	22 40	2
C(16)	133 2625	20 40	19 80	20 40	20 80	1	PP(52)	391 2625	21 80	21 70	23 20	22 50	1 5
D(17)	139 2500	20 70	20 80	20 60	21 80	1 2	QQ(53)	397 2625	22 60	22 60	23 20	23 80	1 2
E(18)	145 2500	20 20	19 80	20 30	21 60	1 8	RR(54)	403 2500	22 10	23 20	24 00	23 00	1 9
F(19)	151 3210	20 30	19 90	20 60	21 30	1 4	SS(55)	409 2500	21 40	23 90	23 90	22 00	2 5
G(20)	157 2500	20 30	20 00	20 50	20 80	0 8	TT(56)	415 2500	20 10	22 20	23 70	20 70	3 6
H(21)	163 2500	20 20	20 50	20 80	22 00	1 8	UU(57)	421 2500	20 60	21 90	23 70	21 70	3 1
I(22)	169 2500	21 00	20 60	20 80	21 90	1 3	VV(58)	427 2500	21 60	23 60	23 20	22 60	2
7	175 2500	21 50	20 50	20 60	21 90	1 4	WW(59)	433 2500	20 90	22 10	22 70	22 10	1 8
8	181 2500	20 10	20 40	20 60	21 00	0 9	XX(60)	439 2500	22 30	22 10	22 60	23 30	1 2
9	187 2500	20 10	19 20	20 30	21 10	1 9	YY(61)	445 2500	23 10	23 50	23 10	23 90	0 8
10	193 2500	20 50	20 40	20 50	21 00	0 6	ZZ(62)	451 2500	23 30	22 60	24 10	24 00	1 5
11	199 2500	20 20	19 60	20 40	20 60	1	63	457 2500	24 50	23 00	23 60	24 90	1 9
12	205 2500	20 20	19 00	19 80	20 50	1 5	64	463 2500	24 40	22 80	23 10	24 50	1 7
13	211 2500	20 70	20 10	20 30	21 00	0 9	65	469 2500	24 70	23 80	23 60	25 30	1 7
J(23)	217 2500	20 90	20 00	20 50	21 10	1 1	66	475 2500	23 90	23 00	23 60	24 10	1 1
K(24)	223 2500	21 10	20 30	20 50	21 50	1 2	67	481 2500	23 90	22 50	22 70	24 20	1 7
L(25)	229 2625	20 70	19 80	19 90	21 00	1 2	68	487 2500	23 00	21 60	22 40	23 40	1 8
M(26)	235 2625	21 10	20 00	20 00	21 50	1 5	69	493 2500	22 60	23 00	23 10	23 40	0 8
N(27)	241 2625	21 30	20 30	19 80	21 90	2 1	70	499 2500	21 70	22 30	21 90	22 30	0 6
O(28)	247 2625	21 00	19 60	19 40	21 50	2 1	71	505 2500	23 20	22 40	22 70	23 30	0 9
P(29)	253 2625	20 20	21 10	20 50	21 30	1 1	72	511 2500	22 20	22 90	23 10	22 50	0 9
Q(30)	259 2625	20 30	20 90	20 80	20 80	0 6	73	517 2500	22 40	21 60	22 90	23 60	2
R(31)	265 2625	19 60	19 50	20 10	19 90	0 6	74	523 2500	23 20	20 90	22 10	23 70	2 8
S(32)	271 2625	20 00	19 40	19 60	20 10	0 7	75	529 2500	21 50	22 30	23 00	21 80	1 5
T(33)	277 2625	21 40	19 40	19 90	21 60	2 2	76	535 2500	21 50	20 80	22 20	21 80	1 4
U(34)	283 2625	21 60	20 20	20 60	21 90	1 7	77	541 2500					
V(35)	289 2625	21 60	21 00	21 90	21 70	0 9	78	547 2500	22 80	21 40	22 40	23 60	2 2
W(36)	295 2625	22 60	21 20	21 50	22 40	1 4	79	553 2500					
AA(37)	301 2625	22 70	21 80	22 10	23 20	1 4	80	559 2500					
BB(38)	307 2625	23 80	22 10	22 50	24 10	2	81	565 2500					
CC(39)	313 2625	22 60	21 60	21 80	23 00	1 4							

Max Non Adjacent Channel Level Diff :- 5.8
 Max Adjacent Channel Level Diff :- 1.9
 Max Variance from last proof of performance test :- 0
 Date of last proof of performance test :- N/A

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

TIME WARNER CABLE - SYRACUSE DIVISION

<i>System Name</i>	:	Binghamton
<i>System Test Point #</i>	:	5
<i>Hub Name</i>	:	Owego
<i>Location</i>	:	Rt.17C Owego
<i>Map Number</i>	:	
<i>Pole Number</i>	:	T-73/72
<i>D.T. Value</i>	:	11
<i>OR Number</i>	:	1
<i>GNA Cascade</i>	:	2
<i>LE Cascade</i>	:	1

TIME WARNER CABLE - SYRACUSE DIVISION

**VISUAL CARRIER LEVEL
VISUAL / AURAL LEVEL DIFFERENCE
(at Test Point, at the end of a 100' Drop)**

System Name : Binghamton **Test Location** : Rt.17C Owego
Date : 02/15/2007 **Time** : 15:21:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)
2	55.2500	10.60	-1.90		12.5	DD (40)	319.2625	11.00	-2.80		13.8
3	61.2500	11.40	-2.30		13.7	EE (41)	325.2625	11.10	-2.80		13.9
4	67.2500	11.70	-4.20		15.9	FF (42)	331.2750	11.50	-1.90		13.4
5	77.2500	10.60	-3.60		14.2	GG (43)	337.2625	11.30	-3.10		14.4
6	83.2500	11.20	-3.20		14.4	HH (44)	343.2625	10.80	-2.20		13
A-5 (95)	91.2500	N/A	N/A	N/A		II (45)	349.2625	10.70	-2.20		12.9
A-4 (96)	97.2500	N/A	N/A	N/A		JJ (46)	355.2625	11.60	-2.30		13.9
A-3 (97)	103.2500	N/A	N/A	N/A		KK (47)	361.2625	12.20	-1.20		13.4
A-2 (98)	109.2750	N/A	N/A	N/A		LL (48)	367.2625	12.30	-1.60		13.9
A-1 (99)	115.2750	9.90	-3.00		12.9	MM (49)	373.2625	11.70	-1.70		13.4
A (14)	121.2625	10.10	-3.20		13.3	NN (50)	379.2625	11.60	-1.80		13.4
B (15)	127.2625	10.50	-2.90		13.4	OO (51)	385.2625	11.60	-1.90		13.5
C (16)	133.2625	10.90	-2.50		13.4	PP (52)	391.2625	10.80	-2.70		13.5
D (17)	139.2500	11.00	-2.60		13.6	QQ (53)	397.2625	11.30	-2.20		13.5
E (18)	145.2500	11.00	-3.20		14.2	RR (54)	403.2500	11.90	-2.10		14
F (19)	151.3210	10.60	-3.00		13.6	SS (55)	409.2500	11.50	-2.00		13.5
G (20)	157.2500	11.10	-2.20		13.3	TT (56)	415.2500	11.10	-2.40		13.5
H (21)	163.2500	11.70	-2.10		13.8	UU (57)	421.2500	10.60	-3.10		13.7
I (22)	169.2500	12.50	-1.60		14.1	VV (58)	427.2500	11.00	-2.40		13.4
7	175.2500	12.30	-0.60		12.9	WW (59)	433.2500	10.80	-2.70		13.5
8	181.2500	11.70	-0.90		12.6	XX (60)	439.2500	10.40	-2.60		13
9	187.2500	11.90	-1.40		13.3	YY (61)	445.2500	11.00	-2.50		13.5
10	193.2500	12.20	-1.50		13.7	ZZ (62)	451.2500	11.50	-1.90		13.4
11	199.2500	12.30	-1.40		13.7	63	457.2500	11.60	-2.00		13.6
12	205.2500	11.80	-2.30		14.1	64	463.2500	11.10	-2.50		13.6
13	211.2500	12.40	-0.40		12.8	65	469.2500	11.00	-2.20		13.2
J (23)	217.2500	12.20	-1.20		13.4	66	475.2500	11.00	-2.30		13.3
K (24)	223.2500	12.40	-2.00		14.4	67	481.2500	10.70	-2.80		13.5
L (25)	229.2625	12.10	-2.00		14.1	68	487.2500	11.00	-2.60		13.6
M (26)	235.2625	11.30	-2.10		13.4	69	493.2500	11.40	-2.50		13.9
N (27)	241.2625	11.80	-1.70		13.5	70	499.2500	10.90	-2.90		13.8
O (28)	247.2625	11.40	-1.90		13.3	71	505.2500	11.40	-2.30		13.7
P (29)	253.2625	11.60	-1.50		13.1	72	511.2500	10.90	-2.90		13.8
Q (30)	259.2625	11.60	-1.80		13.4	73	517.2500	11.20	-1.40		12.6
R (31)	265.2625	11.80	-1.80		13.6	74	523.2500	10.80	-2.60		13.4
S (32)	271.2625	10.60	-2.90		13.5	75	529.2500	10.80	-2.00		12.8
T (33)	277.2625	11.40	-2.20		13.6	76	535.2500	11.70	-2.50		14.2
U (34)	283.2625	9.90	-3.50		13.4	77	541.2500	N/A	N/A		N/A
V (35)	289.2625	11.00	-2.70		13.7	78	547.2500	11.40	-1.70		13.1
W (36)	295.2625	10.80	-3.00		13.8	79	553.2500	N/A	N/A		N/A
AA (37)	301.2625	10.80	-3.50		14.3	80	559.2500	N/A	N/A		N/A
BB (38)	307.2625	11.10	-2.80		13.9	81	565.2500	N/A	N/A		N/A
CC (39)	313.2625	10.70	-2.50		13.2						

Min Channel : A-1(99) 9.900

Max Channel : I(22) 12.500

Peak to Valley : 2.6

TIME WARNER CABLE - SYRACUSE DIVISION

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

System Name : Binghamton

Date : 03/09/2007

Performed By : John Hriciso

Location : Rt.17C Owego

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

CHANNEL NUMBER	IN CHANNEL RESPONSE	CARRIER TO NOISE RATIO	DISTORTIONS	CSO	HUM
	(+/- DB)	(DB)	(-DBC) CTB		(%)
4	0.2	45.7	68.1	73.6	1.2
15	0.1	46.9	68.1	74.8	
12	0.1	47.8	67.8	72.7	
27	0.1	47.8	62.9	72.6	
41	0.0	47.5	64.3	75.9	
50	0.2	47.1	64.7	72.9	
62	0.2	46.0	62.8	74.7	
67	0.1	46.0	67.0	73.1	
76	0.0	47.3	64.0	72.8	

TIME WARNER CABLE - SYRACUSE DIVISION

***IN CHANNEL FREQUENCY RESPONSE TEST
(76.605) (a) (6)***

System Name : Binghamton

Date : 03/09/2007

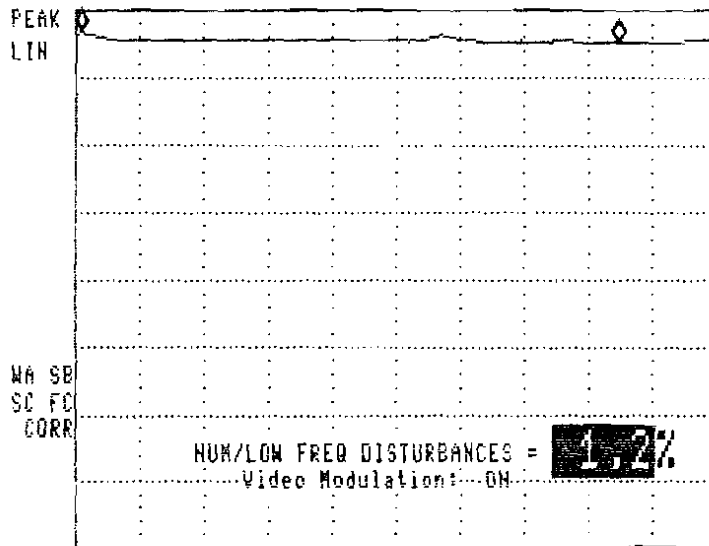
Performed By : John Hriciso

Location : Rt.17C Owego

(SEE THE ATTACHED SWEEP TRACES)

05:42:27 MAR 09, 2007
CHANNEL 1 (STD) WKR = 25.125 msec
REF 49.83 mV AT 10 dB .980 X

CH01



MORE
INFO

MAIN
MENU

START 67.250 MHz STOP 67.250 MHz
#RES BW 1.0 MHz #SPAN 1 MHz #SUP -30.0 msec

06:09:50 MAR 09, 2007

CHANNEL 24 (STD)

REF -1.3 dBmV *AT 0 dB

MKR 242.387 MHz

-34.80 dBmV

CHNL

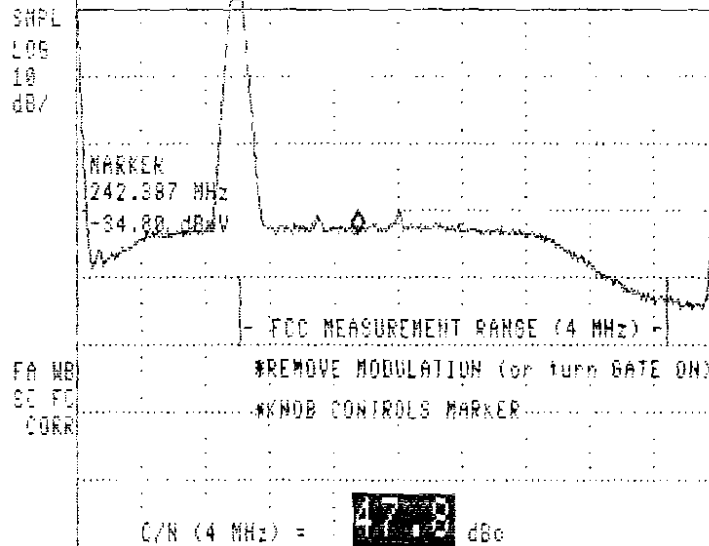
GATE ON OFF

AVERAGE ON OFF

MORE INFO

MORE

MAIN MENU



START 239.752 MHz STOP 245.752 MHz
RES BW 30 kHz EVEN 100 Hz SNP 6.00 sec

06:19:40 MAR 09, 2007

CHANNEL 24 (STD)

REF 5.2 dBmV *AT 20 dB

MKR 326.433 MHz

-30.85 dBmV

CHNL

GATE ON OFF

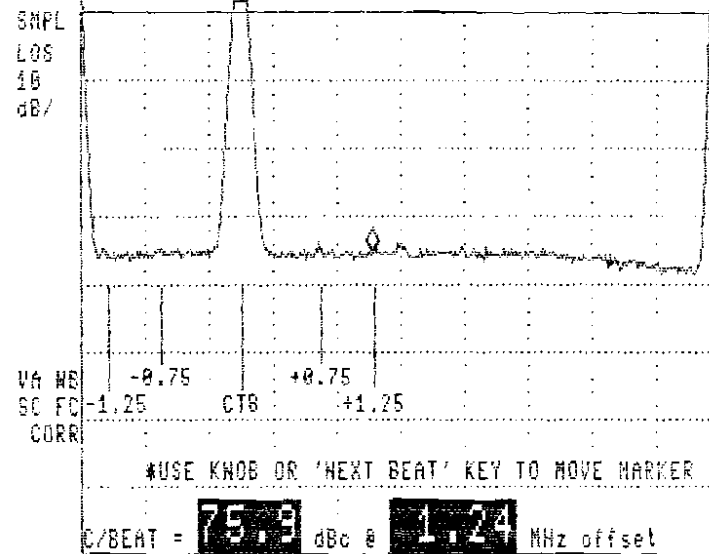
AVERAGE ON OFF

ZOOM & MEASURE

NEXT BEAT

MORE

MAIN MENU



START 323.753 MHz STOP 329.753 MHz
RES BW 30 kHz EVEN 100 Hz SNP 6.00 sec

05:55:36 MAR 09, 2007

CHANNEL 15 (STD)

REF -1.3 dBmV *AT 10 dB

MKR 127.997 MHz

-32.43 dBmV

CHNL

GATE ON OFF

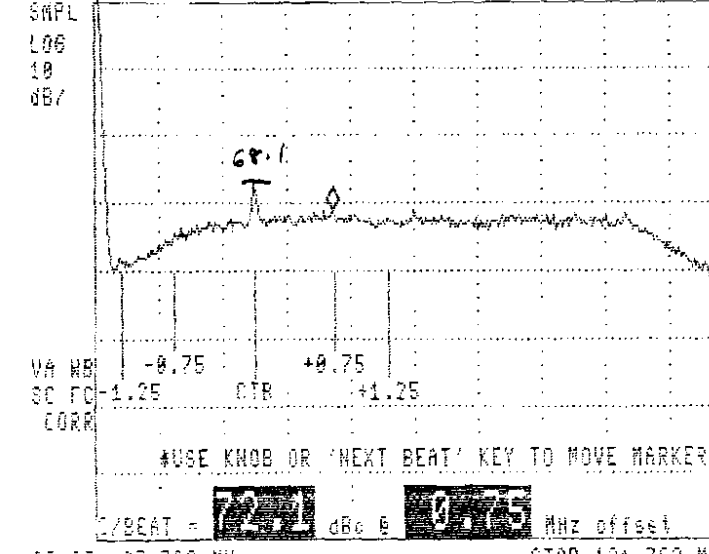
AVERAGE ON OFF

ZOOM & MEASURE

NEXT BEAT

MORE

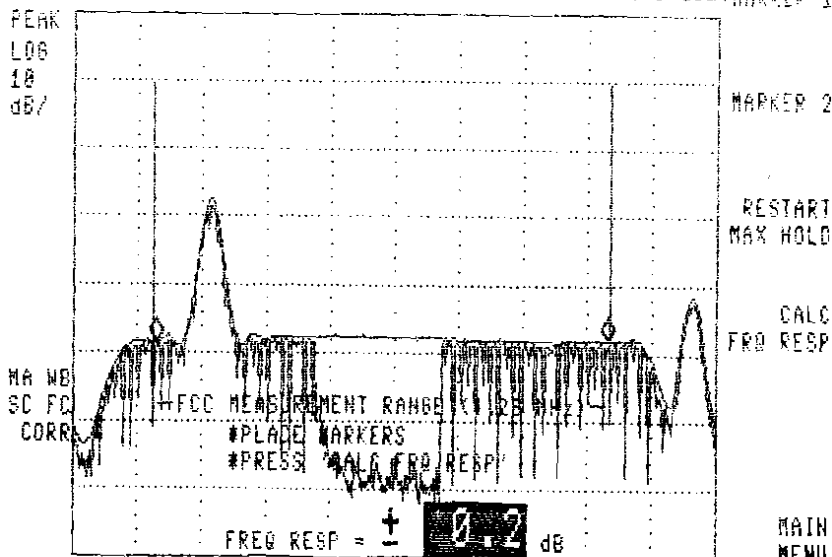
MAIN MENU



START 125.752 MHz STOP 131.752 MHz
RES BW 30 kHz EVEN 100 Hz SNP 6.00 sec

05:49:36 MAR 09, 2007
 CHANNEL 1 (STD)
 REF 39.5 dBmV AT 10 dB

MKR 70.995 MHz
 -8.43 dBmV MARKER 1

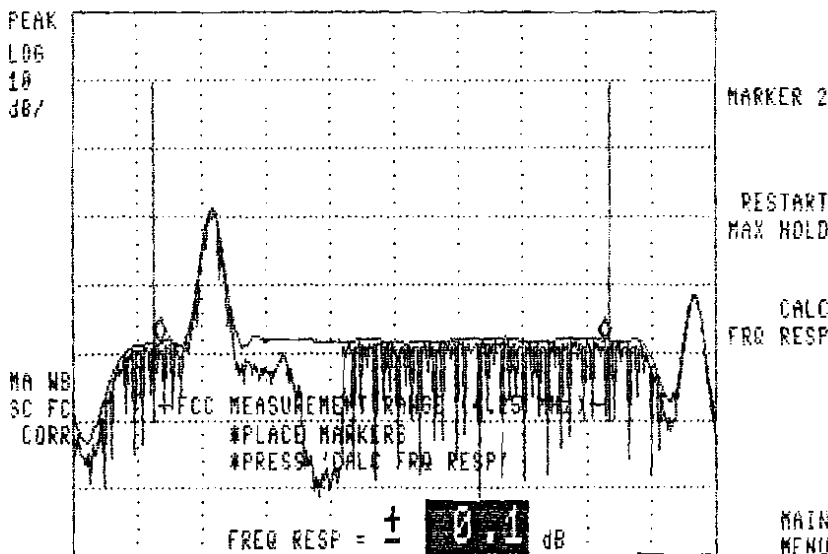


START 65.000 MHz STOP 72.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

05:56:53 MAR 09, 2007

CHANNEL 1 (STD)
 REF 38.4 dBmV AT 10 dB

MKR 130.965 MHz
 -9.85 dBmV MARKER 1

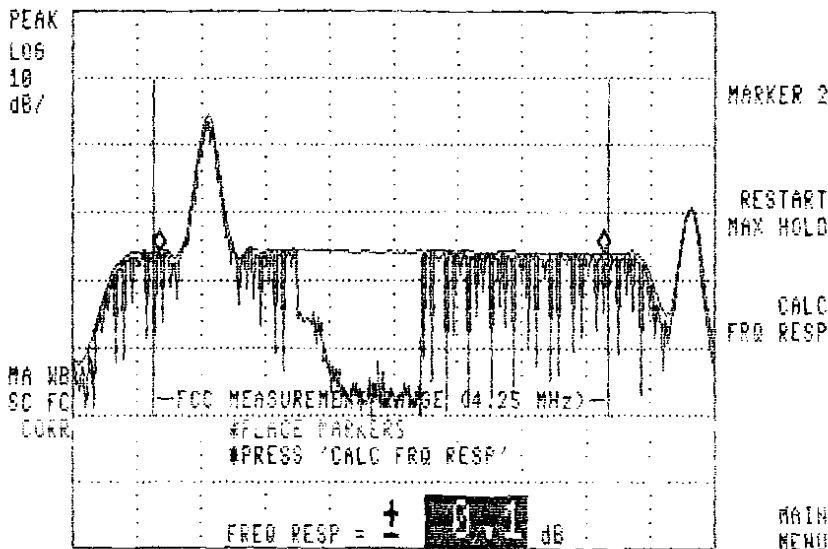


START 126.000 MHz STOP 132.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

06:06:46 MAR 09, 2007

CHANNEL 1 (STD)
 REF 27.4 dBmV AT 10 dB

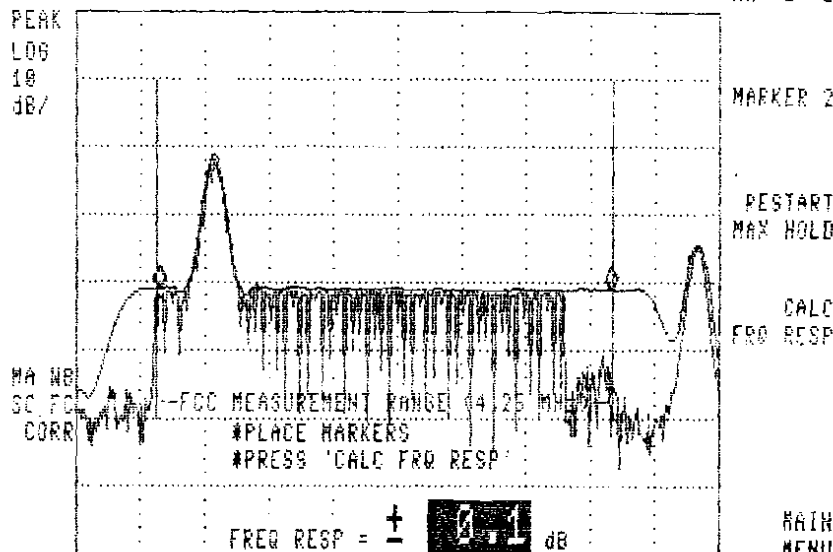
MKR 208.965 MHz
 -8.67 dBmV MARKER 1



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

05:14:16 MAR 09, 2007
#7 CHANNEL 50 (STD)
REF 31.8 dBmV AT 10 dB

MKR 244.995 MHz
-9.33 dBmV MARKER 1

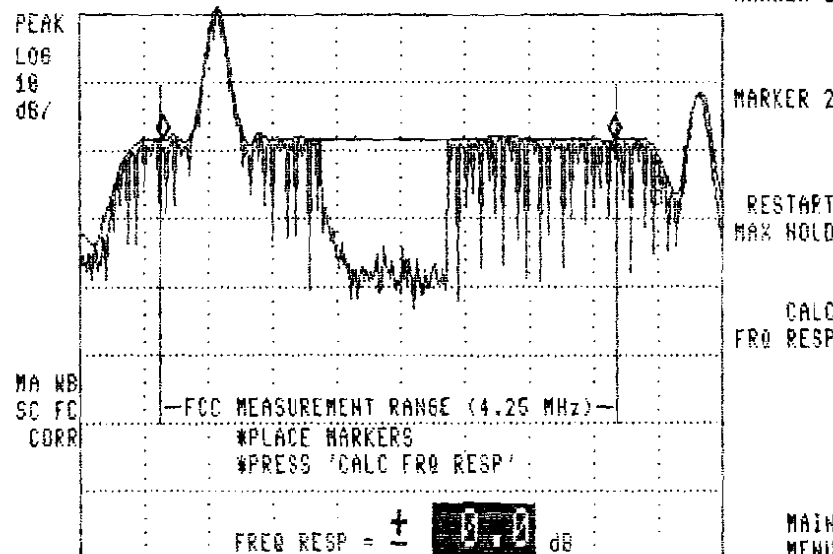


START 240.000 MHz STOP 246.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

06:21:38 MAR 09, 2007

#7 CHANNEL 50 (STD)
REF 8.7 dBmV AT 10 dB

MKR 328.995 MHz
-9.87 dBmV MARKER 1

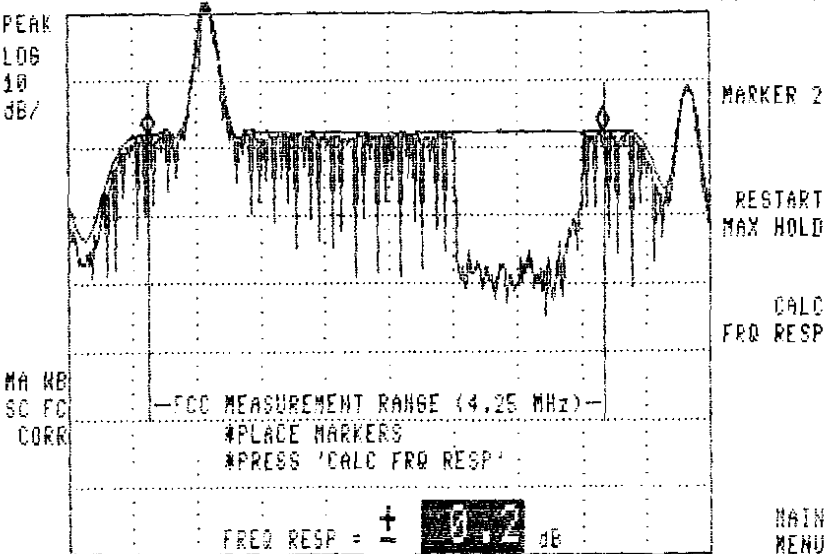


START 324.000 MHz STOP 330.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

06:28:43 MAR 09, 2007

#7 CHANNEL 50 (STD)
REF 8.9 dBmV AT 10 dB

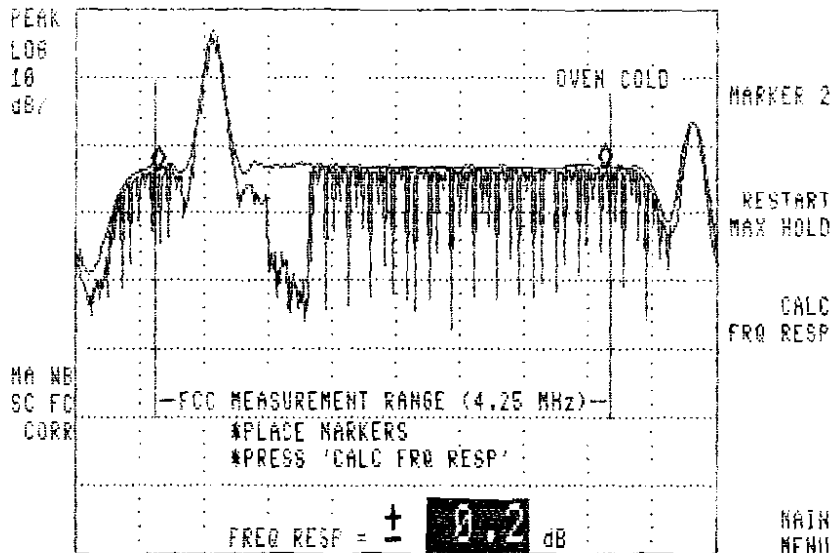
MKR 378.750 MHz
-9.87 dBmV MARKER 1



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

05:38:42 MAR 09, 2007
 CHANNEL 32 (STD)
 REF 14.0 dBmV AT 10 dB

MR 454.965 MHz
 -9.14 dBmV MARKER 1

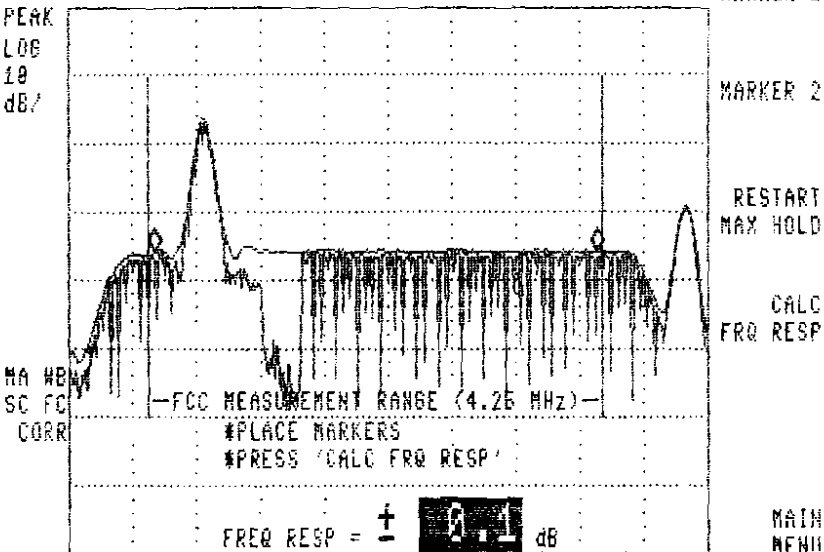


START 450.000 MHz STOP 456.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

05:46:03 MAR 09, 2007

CHANNEL 32 (STD)
 REF 26.5 dBmV AT 10 dB

MR 484.965 MHz
 -9.54 dBmV MARKER 1

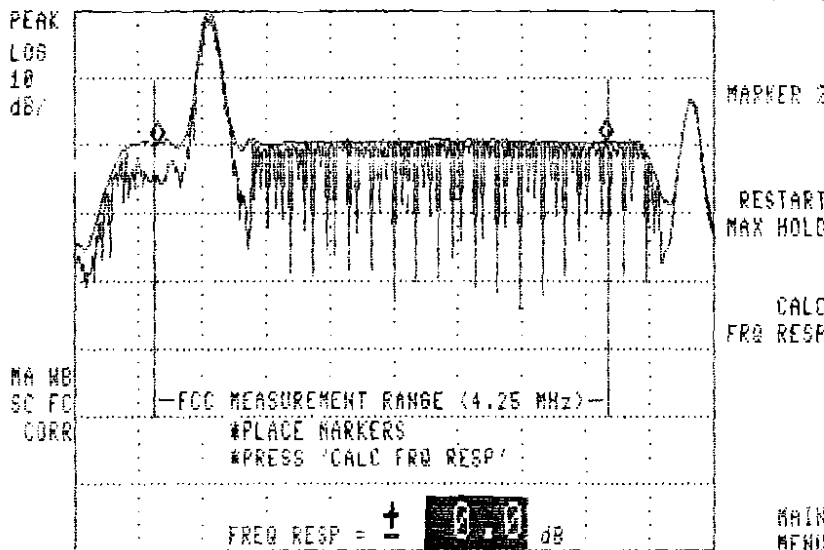


START 480.000 MHz STOP 486.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

06:53:08 MAR 09, 2007

CHANNEL 32 (STD)
 REF 19.2 dBmV AT 10 dB

MR 538.995 MHz
 -9.49 dBmV MARKER 1



START 534.000 MHz STOP 540.000 MHz
 #RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

TESTPOINT 5, PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION**VISUAL CARRIER LEVEL VARIATION TEST**

System Name : Binghamton **Test Location** : Rt.17C Owego
Date : 02/15/2007 **Performed By** : John Hriciso
Meter Serial Number : 6033315

		TEMP F						TEMP F					
		10.00	8.60	-2.20	17.60			10.00	8.60	-2.20	17.60		
		TIME						TIME					
		15:21:00	21:20:00	03:20:00	09:20:00			15:21:00	21:20:00	03:20:00	09:20:00		
CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR	CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR
2	55 2500	10.60	10.30	10.00	10.00	0.6	DD(40)	319 2625	11.00	10.20	9.70	9.90	1.3
3	61 2500	11.40	10.80	10.70	10.50	0.9	EE(41)	325 2625	11.10	10.90	10.20	10.40	0.9
4	67 2500	11.70	10.90	11.10	10.80	0.9	FF(42)	331 2750	11.50	11.00	10.50	10.40	1.1
5	77 2500	10.60	10.00	10.20	9.60	1	GG(43)	337 2625	11.30	10.80	11.00	10.60	0.7
6	83 2500	11.20	10.60	10.30	9.80	1.4	HH(44)	343 2625	10.80	10.30	10.20	10.00	0.8
A-5(95)	91 2500						II(45)	349 2625	10.70	10.30	9.90	9.70	1
A-4(96)	97 2500						JJ(46)	355 2625	11.60	10.80	10.50	10.40	1.2
A-3(97)	103 2500						KK(47)	361 2625	12.20	11.90	11.10	11.00	1.2
A-2(98)	109 2750						LL(48)	367 2625	12.30	11.80	11.10	11.00	1.3
A-1(99)	115 2750	9.90	9.60	9.50	9.20	0.7	MM(49)	373 2625	11.70	11.40	11.00	10.90	0.8
A(14)	121 2625	10.10	9.50	9.70	8.40	1.7	NN(50)	379 2625	11.60	11.50	11.00	10.50	1.1
B(15)	127 2625	10.50	9.90	9.40	9.50	1.1	OO(51)	385 2625	11.60	11.20	11.00	10.60	1
C(16)	133 2625	10.90	10.20	9.90	9.80	1.1	PP(52)	391 2625	10.80	10.60	10.70	10.20	0.6
D(17)	139 2500	11.00	10.60	10.20	10.30	0.8	QQ(53)	397 2625	11.30	10.90	10.70	10.10	1.2
E(18)	145 2500	11.00	10.50	10.30	10.10	0.9	RR(54)	403 2500	11.90	11.10	10.80	10.60	1.3
F(19)	151 3210	10.60	10.50	9.90	9.80	0.8	SS(55)	409 2500	11.50	11.50	11.10	10.60	0.9
G(20)	157 2500	11.10	10.90	10.30	10.60	0.9	TT(56)	415 2500	11.10	11.00	10.70	10.20	0.9
H(21)	163 2500	11.70	11.70	11.20	11.00	0.7	UU(57)	421 2500	10.60	10.30	9.90	9.60	1
I(22)	169 2500	12.50	12.10	11.90	11.80	0.7	VV(58)	427 2500	11.00	10.40	10.60	9.70	1.3
7	175 2500	12.30	12.10	12.00	11.70	0.6	WW(59)	433 2500	10.80	10.70	10.60	10.10	0.7
8	181 2500	11.70	11.50	11.20	11.10	0.6	XX(60)	439 2500	10.40	10.30	10.00	9.60	0.8
9	187 2500	11.90	11.80	11.50	11.30	0.6	YY(61)	445 2500	11.00	10.60	10.50	9.70	1.3
10	193 2500	12.20	12.60	12.10	11.90	0.7	ZZ(62)	451 2500	11.50	11.30	11.10	10.70	0.8
11	199 2500	12.30	11.90	11.80	11.60	0.7	63	457 2500	11.60	11.20	11.00	10.60	1
12	205 2500	11.80	11.40	11.30	11.20	0.6	64	463 2500	11.10	10.90	10.70	10.10	1
13	211 2500	12.40	12.40	12.20	11.80	0.6	65	469 2500	11.00	11.00	10.60	10.30	0.7
J(23)	217 2500	12.20	12.10	12.00	11.80	0.4	66	475 2500	11.00	11.10	10.60	10.00	1.1
K(24)	223 2500	12.40	12.30	11.90	11.60	0.8	67	481 2500	10.70	10.80	10.50	9.60	1.2
L(25)	229 2625	12.10	11.90	11.50	11.30	0.8	68	487 2500	11.00	10.50	10.90	10.40	0.6
M(26)	235 2625	11.30	10.80	11.20	10.80	0.5	69	493 2500	11.40	10.90	10.50	10.10	1.3
N(27)	241 2625	11.80	11.50	11.50	11.10	0.7	70	499 2500	10.90	10.60	10.40	10.20	0.7
O(28)	247 2625	11.40	10.80	10.60	10.30	1.1	71	505 2500	11.40	11.00	10.80	10.30	1.1
P(29)	253 2625	11.60	11.10	11.20	10.70	0.9	72	511 2500	10.90	10.70	10.50	10.00	0.9
Q(30)	259 2625	11.60	11.10	11.20	10.90	0.7	73	517 2500	11.20	11.10	11.20	10.70	0.5
R(31)	265 2625	11.80	11.20	10.60	10.60	1.2	74	523 2500	10.80	10.90	10.30	10.30	0.6
S(32)	271 2625	10.60	10.50	9.90	10.00	0.7	75	529 2500	10.80	11.10	10.60	10.00	1.1
T(33)	277 2625	11.40	11.00	10.70	10.40	1	76	535 2500	11.70	11.40	11.10	10.60	1.1
U(34)	283 2625	9.90	9.20	8.90	8.40	1.5	77	541 2500					
V(35)	289 2625	11.00	10.30	10.10	9.60	1.4	78	547 2500	11.40	11.40	11.10	10.80	0.6
W(36)	295 2625	10.80	10.20	10.10	10.20	0.7	79	553 2500					
AA(37)	301 2625	10.80	10.40	9.90	10.00	0.9	80	559 2500					
BB(38)	307 2625	11.10	10.40	10.10	10.30	1	81	565 2500					
CC(39)	313 2625	10.70	10.30	9.80	10.00	0.9							

Max Non Adjacent Channel Level Diff :- 3.5
 Max Adjacent Channel Level Diff :- 2
 Max Variance from last proof of performance test :- 0
 Date of last proof of performance test :- N/A

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

TIME WARNER CABLE - SYRACUSE DIVISION

System Name	:	Binghamton
System Test Point #	:	6
Hub Name	:	Plaza Drive
Location	:	Penn Ave. S. Apalachin
Map Number	:	
Pole Number	:	CTC-101 1/2
D.T. Value	:	20
OR Number	:	1
GNA Cascade	:	2
LE Cscade	:	1

TESTPOINT 6, PAGE 2

TIME WARNER CABLE - SYRACUSE DIVISION

VISUAL CARRIER LEVEL
VISUAL / AURAL LEVEL DIFFERENCE
(at Test Point, at the end of a 100' Drop)

System Name : Binghamton Test Location : Penn Ave. S. Apalachin
 Date : 02/15/2007 Time : 16:03:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL (DBMV)	AURAL LEVEL (DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL (DBMV)	AURAL LEVEL (DBMV)	SC "S"	DIFF (DBMV)
2	55 2500	13.40	-0.60		14	DD (40)	719 2625	17.00	3.50		135
3	61 2500	13.40	-0.80		14.2	FE (41)	125 2625	17.90	3.80		141
4	67 2500	13.70	-2.40		16.1	FF (42)	331 2750	18.00	4.30		137
5	77 2500	13.10	-1.80		14.9	GG (43)	337 2625	18.00	3.80		142
6	83 2500	13.40	-0.80		14.2	HH (44)	343 2625	17.70	4.30		134
A-5 (95)	91 2500	N/A	N/A		N/A	II (45)	349 2625	17.40	4.20		132
A-4 (96)	97 2500	N/A	N/A		N/A	JJ (46)	355 2625	18.20	4.50		137
A-3 (97)	103 2500	N/A	N/A		N/A	KK (47)	351 2625	18.70	5.10		136
A-2 (98)	109 2750	N/A	N/A		N/A	LL (48)	367 2625	19.00	5.00		14
A-1 (99)	115 2750	13.20	-1.00		14.2	MM (49)	373 2625	19.00	5.40		136
A (14)	121 2625	13.20	0.30		12.9	NN (50)	379 2625	19.10	5.40		137
B (15)	127 2625	14.30	0.60		13.7	OO (51)	385 2625	19.50	6.00		135
C (16)	133 2625	14.70	0.80		13.9	PP (52)	391 2625	19.10	5.00		141
D (17)	139 2500	14.90	1.30		13.6	QQ (53)	397 2625	19.70	5.50		142
E (18)	145 2500	15.10	1.10		14	RR (54)	403 2500	19.90	5.90		14
F (19)	151 3210	15.10	1.40		13.7	SS (55)	409 2500	19.80	6.30		135
G (20)	157 2500	15.40	1.70		13.7	TT (56)	415 2500	20.20	6.10		141
H (21)	163 2500	15.50	1.30		14.2	UU (57)	421 2500	19.90	6.10		138
I (22)	169 2500	16.10	1.90		14.2	VV (58)	427 2500	20.40	6.90		135
7	175 2500	16.20	2.50		13.7	WW (59)	433 2500	20.50	6.00		145
8	181 2500	15.30	2.30		13	XX (60)	439 2500	19.80	6.20		136
9	187 2500	15.10	1.80		13.3	YY (61)	445 2500	20.20	6.20		14
10	193 2500	15.50	2.20		13.3	ZZ (62)	451 2500	20.10	6.50		136
11	199 2500	15.50	1.60		13.9	63	457 2500	20.10	6.10		14
12	205 2500	15.80	1.20		14.6	64	463 2500	19.80	5.90		139
13	211 2500	15.60	2.20		13.4	65	469 2500	20.20	6.20		14
J (23)	217 2500	15.40	1.70		13.7	66	475 2500	19.80	6.30		135
K (24)	223 2500	15.80	2.20		13.6	67	481 2500	19.80	6.30		135
L (25)	229 2625	16.10	2.40		13.7	68	487 2500	19.70	6.10		136
M (26)	235 2625	16.20	2.60		13.6	69	493 2500	19.90	6.50		134
N (27)	241 2625	16.30	2.70		13.6	70	499 2500	19.80	6.30		135
O (28)	247 2625	15.80	2.10		13.7	71	505 2500	20.50	7.00		135
P (29)	253 2625	16.40	2.70		13.7	72	511 2500	20.60	6.50		141
Q (30)	259 2625	16.50	2.70		13.8	73	517 2500	20.80	7.20		136
R (31)	265 2625	16.60	3.00		13.6	74	523 2500	20.90	7.10		138
S (32)	271 2625	16.20	2.30		13.9	75	529 2500	21.30	7.70		136
T (33)	277 2625	16.30	2.30		14	76	535 2500	21.40	7.70		137
U (34)	283 2625	15.90	2.40		13.5	77	541 2500	N/A	N/A		N/A
V (35)	289 2625	16.50	2.70		13.8	78	547 2500	21.90	8.10		138
W (36)	295 2625	17.00	3.00		14	79	553 2500	N/A	N/A		N/A
AA (37)	301 2625	17.10	3.00		14.1	80	559 2500	N/A	N/A		N/A
BB (38)	307 2625	17.70	3.40		14.3	81	565 2500	N/A	N/A		N/A
CC (39)	313 2625	17.50	3.70		13.8						

Min Channel	5	13.100
Max Channel	78	21.900
Peak to Valley	8.8	

TIME WARNER CABLE - SYRACUSE DIVISION

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

System Name : Binghamton

Date : 03/13/2007

Performed By : John Hriciso

Location : Penn Ave. S. Apalachin

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

CHANNEL NUMBER	IN CHANNEL RESPONSE	CARRIER TO NOISE RATIO	DISTORTIONS	CSO	HUM
	(+/- DB)	(DB)	(-DBC) CTB		(%)
4	0.1	47.3	69.1	74.1	0.3
15	0.2	46.7	70.3	75.4	
12	0.1	46.8	67.7	75.6	
27	0.2	45.8	67.8	75.9	
41	0.1	46.8	66.9	77.4	
50	0.3	48.2	66.8	76.6	
62	0.1	47.5	63.5	67.3	
67	0.2	47.5	65.6	72.3	
76	0.3	47.1	67.5	75.1	

TESTPOINT 6, PAGE 4

TIME WARNER CABLE - SYRACUSE DIVISION

***IN CHANNEL FREQUENCY RESPONSE TEST
(76.605) (a) (6)***

System Name : Binghamton

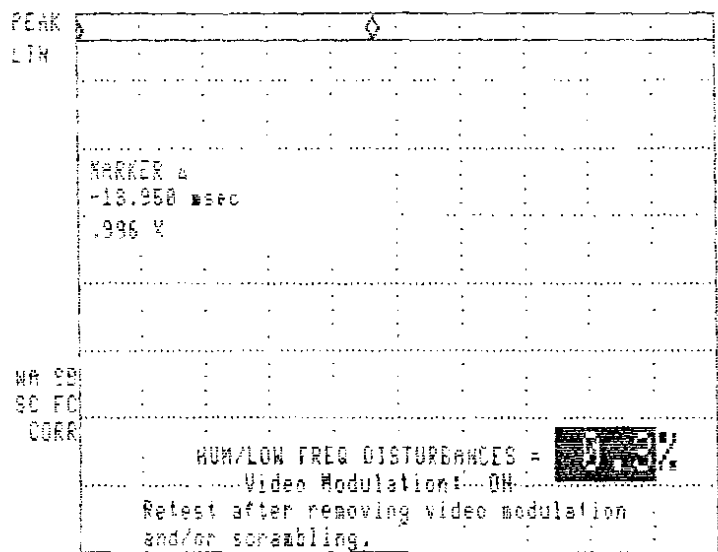
Date : 03/13/2007

Performed By : John Hriciso

Location : Penn Ave. S. Apalachin

(SEE THE ATTACHED SWEEP TRACES)

28:05:23 MAR 14, 2007
#27 CHANNEL (STD) MKR 4 -18.950 msec
REF 18.48 mV AT 10 dB .996 %



START 67.248 MHz STOP 67.248 MHz
#RES BW 1.0 MHz #VBW 1 KHz #SMP 20.0 msec

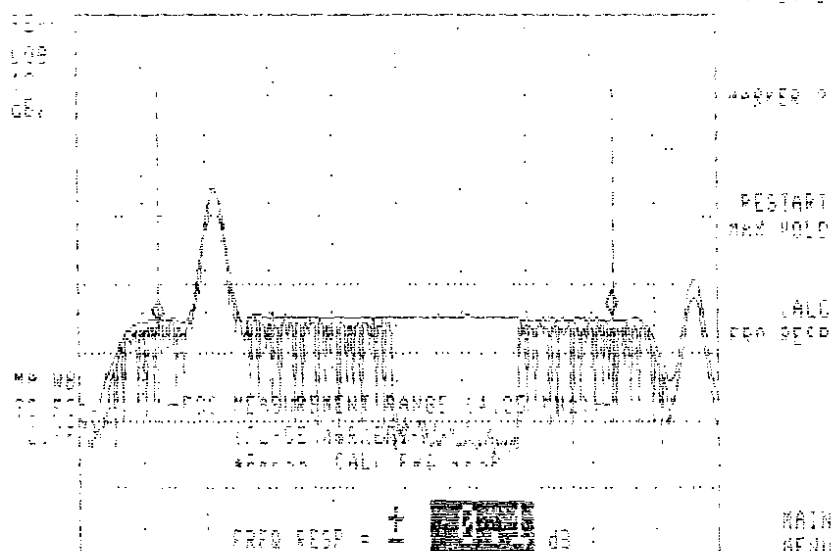
0.0000

MORE
INFO

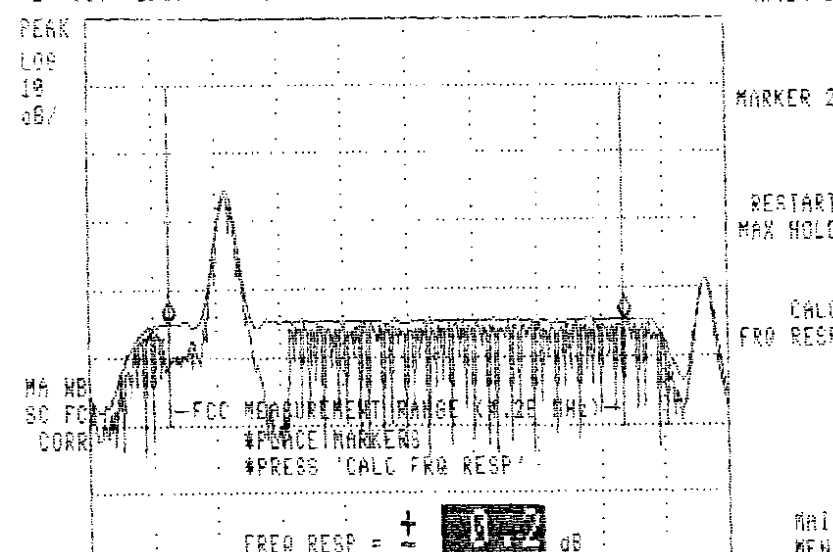
MAIN
MENU

AGPE

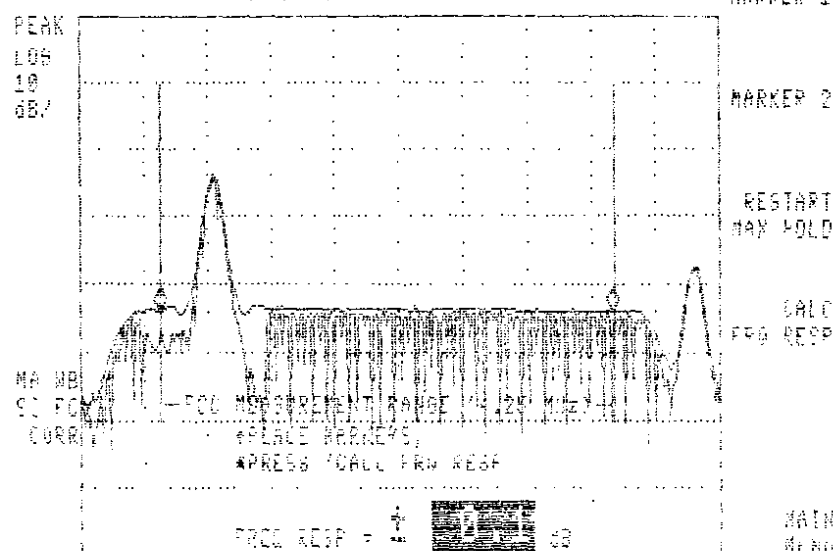
AT CHANNEL 33 (STD) 1370
 REF 32.4 dBm AT 10 dB -12.39 dBm MARKER 1



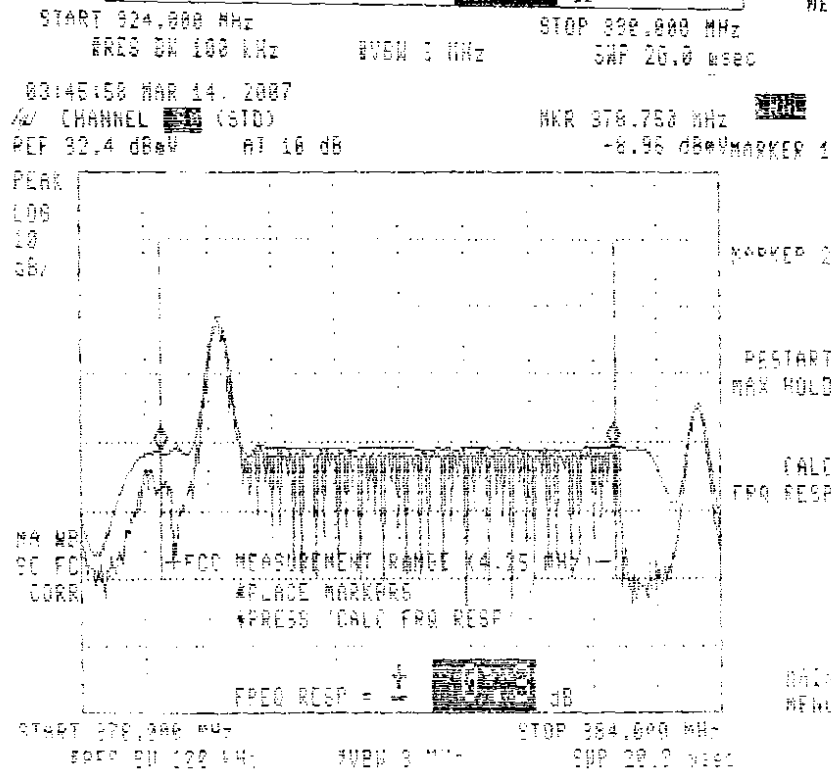
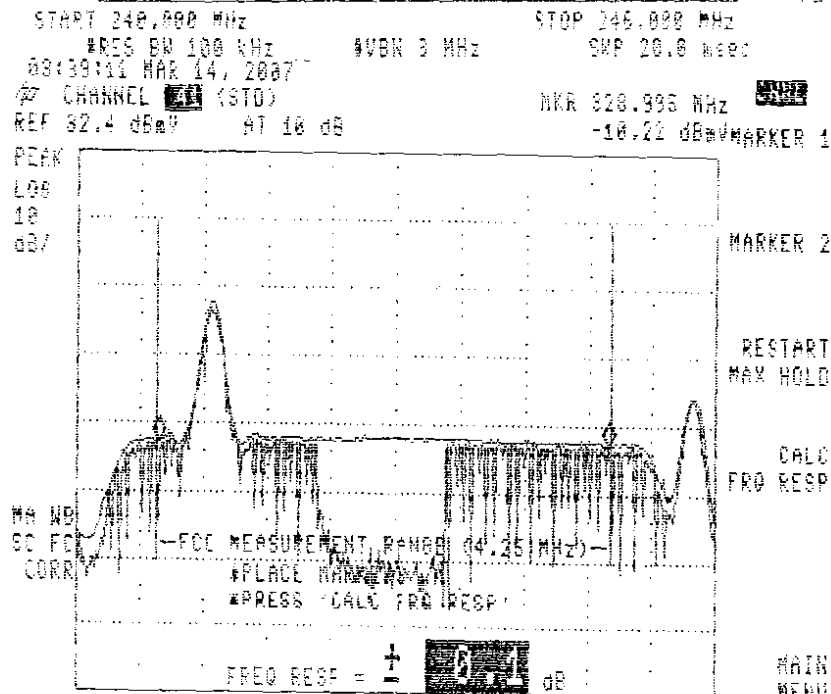
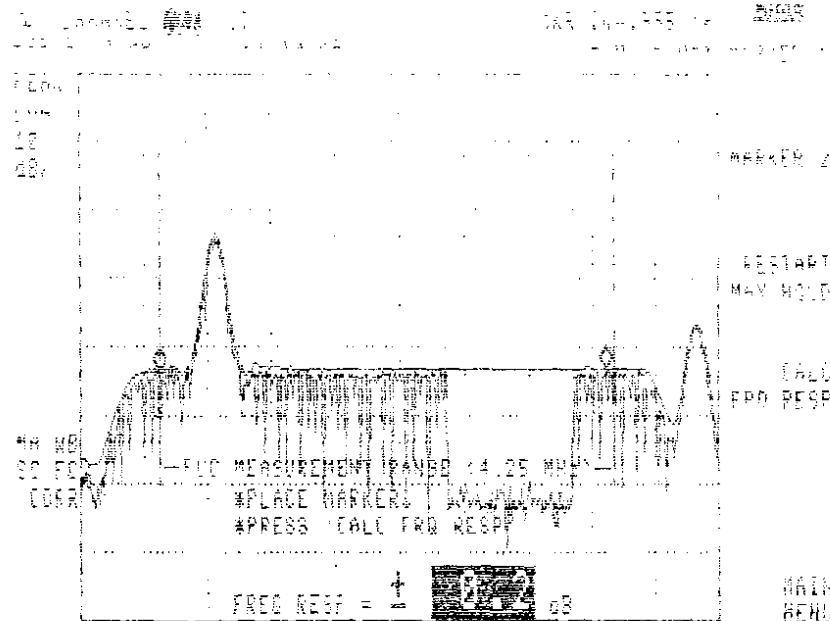
START 55.000 MHz STOP 72.000 MHz
 RES BW 100 kHz AVEW 3 MHz SWP 20.0 msec
 03:19:29 MAR 14, 2007
 AT CHANNEL 33 (STD) MKR 131.025 MHz
 REF 32.4 dBm AT 10 dB -12.39 dBm MARKER 1



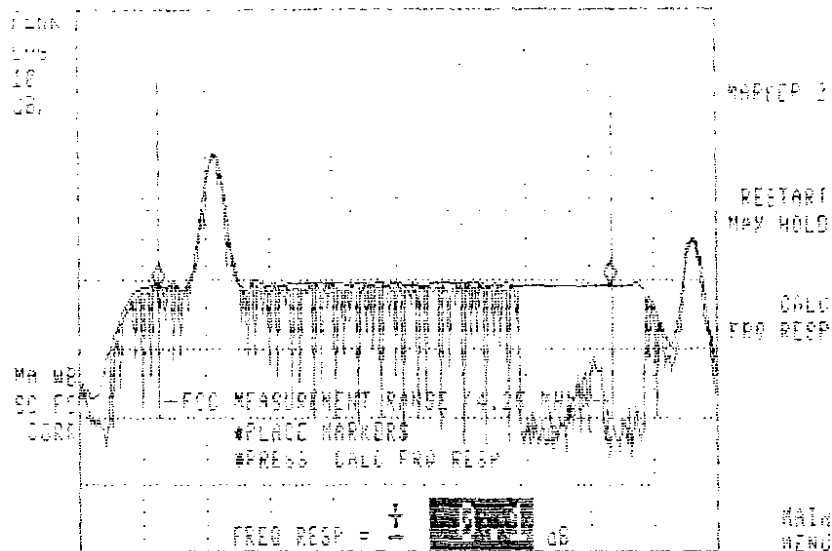
START 126.000 MHz STOP 132.000 MHz
 RES BW 100 kHz AVEW 3 MHz SWP 20.0 msec
 03:20:00 MAR 14, 2007
 AT CHANNEL 33 (STD) MKR 208.995 MHz
 REF 32.4 dBm AT 10 dB -11.55 dBm MARKER 1



START 208.995 MHz STOP 210.000 MHz
 RES BW 100 kHz AVEW 3 MHz SWP 20.0 msec

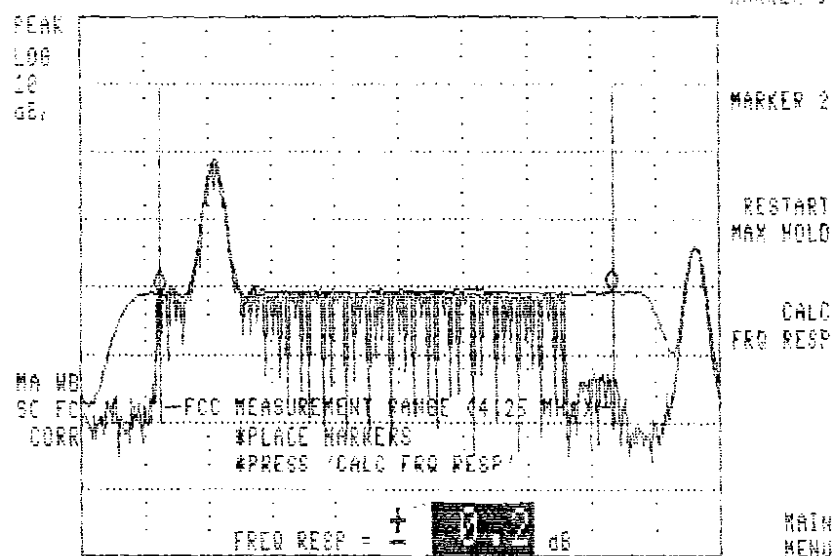


CHANNEL 100 (STD) 454.395 MHz
 REF 32.4 dBmV AT 10 dB -8.48 dBmV MARKER 1



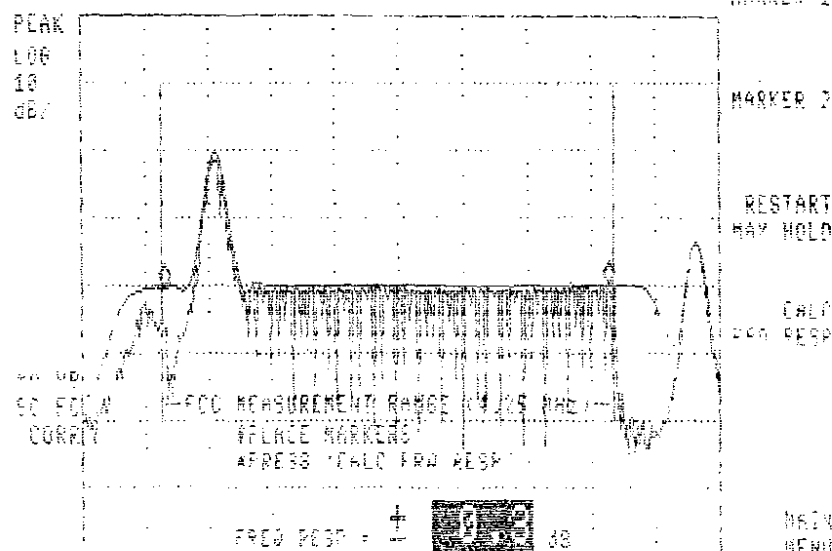
START 450.000 MHz STOP 456.000 MHz
 RES BW 100 kHz VSW 3 MHz SWP 20.0 ussec

04:04:55 MAR 14, 2007
 CHANNEL 100 (STD) MKR 454.395 MHz
 REF 32.4 dBmV AT 10 dB -8.48 dBmV MARKER 1



START 490.000 MHz STOP 496.000 MHz
 RES BW 100 kHz VSW 3 MHz SWP 20.0 ussec

04:12:01 MAR 14, 2007
 CHANNEL 100 (STD) MKR 534.780 MHz
 REF 32.4 dBmV AT 10 dB -8.02 dBmV MARKER 1



START 534.000 MHz STOP 540.000 MHz
 RES BW 100 kHz VSW 3 MHz SWP 20.0 ussec

TESTPOINT 6, PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION**VISUAL CARRIER LEVEL VARIATION TEST**

System Name : Binghamton
Date : 02/15/2007
Meter Serial Number : 9343240

Test Location : Penn Ave. S. Apalachin
Performed By : John Hriciso

		TEMP F							TEMP F						
		10.00	15.80	17.60	23.00					10.00	15.80	17.60	23.00		
		TIME							TIME						
		16:03:00	22:02:00	04:02:00	10:02:00					16:03:00	22:02:00	04:02:00	10:02:00		
CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR	CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR		
2	55 2500	13.40	13.50	13.20	13.40	0.3	DD(40)	319 2625	17.00	16.40	16.50	16.40	0.6		
3	61 2500	13.40	13.40	13.60	13.30	0.3	EE(41)	325 2625	17.90	17.00	17.30	17.10	0.9		
4	67 2500	13.70	13.60	13.30	13.20	0.5	FF(42)	331 2750	18.00	17.70	17.60	17.10	0.9		
5	77 2500	13.10	12.50	12.80	12.40	0.7	GG(43)	337 2625	18.00	17.30	17.50	17.10	0.9		
6	83 2500	13.40	12.90	13.00	12.80	0.6	HH(44)	343 2625	17.70	17.10	17.10	17.00	0.7		
A-5(95)	91 2500						II(45)	349 2625	17.40	17.00	16.90	16.90	0.5		
A-4(96)	97 2500						JJ(46)	355 2625	18.20	17.70	17.50	17.50	0.7		
A-3(97)	103 2500						KK(47)	361 2625	18.70	18.10	18.00	18.10	0.7		
A-2(98)	109 2750						LL(48)	367 2625	19.00	18.40	18.00	17.90	1.1		
A-1(99)	115 2750	13.20	12.80	13.10	12.80	0.4	MM(49)	373 2625	19.00	18.10	18.00	17.90	1.1		
A(14)	121 2625	13.20	13.00	12.70	11.60	1.5	NN(50)	379 2625	19.10	18.70	18.30	18.50	0.8		
B(15)	127 2625	14.30	14.20	14.00	14.20	0.3	OO(51)	385 2625	19.50	19.00	18.70	18.60	0.9		
C(16)	133 2625	14.70	14.40	14.60	14.30	0.4	PP(52)	391 2625	19.10	18.50	18.20	18.50	0.9		
D(17)	139 2500	14.90	14.80	14.80	14.70	0.2	QQ(53)	397 2625	19.70	19.30	19.10	18.90	0.8		
E(18)	145 2500	15.10	14.90	15.10	14.80	0.3	RR(54)	403 2500	19.90	19.20	19.30	19.00	0.9		
F(19)	151 3210	15.10	15.20	15.20	14.80	0.4	SS(55)	409 2500	19.80	19.50	19.20	19.20	0.6		
G(20)	157 2500	15.40	15.16	15.10	15.10	0.3	TT(56)	415 2500	20.20	19.80	19.40	19.20	1		
H(21)	163 2500	15.50	15.70	15.60	15.40	0.3	UU(57)	421 2500	19.90	19.80	19.40	19.40	0.5		
I(22)	169 2500	16.10	15.80	15.70	16.00	0.4	VV(58)	427 2500	20.40	19.90	20.10	19.80	0.6		
7	175 2500	16.20	15.90	15.50	15.60	0.7	WW(59)	433 2500	20.50	20.00	19.90	19.90	0.6		
8	181 2500	15.30	14.90	14.80	14.80	0.5	XX(60)	439 2500	19.80	19.70	19.50	19.30	0.5		
9	187 2500	15.10	14.70	14.50	14.60	0.6	YY(61)	445 2500	20.20	19.80	20.00	19.50	0.7		
10	193 2500	15.50	15.30	15.20	15.20	0.3	ZZ(62)	451 2500	20.10	20.20	19.80	19.80	0.4		
11	199 2500	15.50	14.80	14.90	14.50	1	63	457 2500	20.10	19.70	19.90	19.80	0.4		
12	205 2500	15.80	14.30	14.50	14.50	1.5	64	463 2500	19.80	19.50	19.50	19.50	0.3		
13	211 2500	15.60	14.70	14.90	15.00	0.9	65	469 2500	20.20	19.80	19.70	19.50	0.7		
J(23)	217 2500	15.40	15.10	14.70	14.50	0.9	66	475 2500	19.80	19.80	19.50	19.30	0.5		
K(24)	223 2500	15.80	14.90	15.00	14.90	0.9	67	481 2500	19.80	19.80	19.50	18.80	1		
L(25)	229 2625	16.10	14.80	15.10	15.10	1.3	68	487 2500	19.70	19.50	19.40	19.10	0.6		
M(26)	235 2625	16.20	15.00	15.20	15.10	1.2	69	493 2500	19.90	19.70	19.80	19.30	0.6		
N(27)	241 2625	16.30	15.10	15.40	15.30	1.2	70	499 2500	19.80	19.70	19.50	19.10	0.7		
O(28)	247 2625	15.80	15.00	15.00	14.90	0.9	71	505 2500	20.50	19.90	20.40	19.70	0.8		
P(29)	253 2625	16.40	15.30	15.50	15.50	1.1	72	511 2500	20.60	20.50	20.50	20.00	0.6		
Q(30)	259 2625	16.50	15.80	15.70	15.40	1.1	73	517 2500	20.80	20.80	20.60	20.20	0.6		
R(31)	265 2625	16.60	15.40	15.60	15.50	1.2	74	523 2500	20.90	20.60	20.30	19.70	1.2		
S(32)	271 2625	16.20	15.20	15.30	15.20	1	75	529 2500	21.30	20.70	20.60	20.30	1		
T(33)	277 2625	16.30	15.60	15.40	15.60	0.9	76	535 2500	21.40	20.70	20.60	20.50	0.9		
U(34)	283 2625	15.90	15.50	15.70	15.40	0.5	77	541 2500							
V(35)	289 2625	16.50	15.60	16.10	15.60	0.9	78	547 2500	21.90	21.90	21.40	21.40	0.5		
W(36)	295 2625	17.00	16.30	16.00	16.10	1	79	553 2500							
AA(37)	301 2625	17.10	16.30	16.20	16.30	0.9	80	559 2500							
BB(38)	307 2625	17.70	16.60	16.80	16.40	1.3	81	565 2500							
CC(39)	313 2625	17.50	16.90	16.80	16.60	0.9									

Max Non Adjacent Channel Level Diff :- 9.8
Max Adjacent Channel Level Diff :- 2.6
Max Variance from last proof of performance test :- 0
Date of last proof of performance test :- N/A

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

TIME WARNER CABLE - SYRACUSE DIVISION

System Name : Binghamton

System Test Point # : 7

Hub Name :

Location : Gates Rd. Vestal

Map Number :

Pole Number : E-12/T-17

D.T. Value : 27

OR Number : 1

GNA Cascade : 3

LE Cascade : 1

TIME WARNER CABLE - SYRACUSE DIVISION

VISUAL CARRIER LEVEL
VISUAL / AURAL LEVEL DIFFERENCE
(at Test Point, at the end of a 100' Drop)

System Name : Binghamton **Test Location** : Gates Rd. Vestal
Date : 02/19/2007 **Time** : 08:54:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)
2	55.2500	11.20	-0.90		12.1	DD (40)	319.2625	14.90	2.00		12.9
3	61.2500	11.70	-1.90		13.6	EE (41)	325.2625	15.20	1.50		13.7
4	67.2500	12.50	-3.80		16.3	FF (42)	331.2750	15.10	1.30		13.8
5	77.2500	11.20	-2.60		13.8	GG (43)	337.2625	14.90	0.90		14
6	83.2500	11.90	-1.80		13.7	HH (44)	343.2625	14.40	1.10		13.3
A-5 (95)	91.2500	N/A	N/A		N/A	II (45)	349.2625	14.50	0.80		13.7
A-4 (96)	97.2500	N/A	N/A		N/A	JJ (46)	355.2625	14.60	1.30		13.3
A-3 (97)	103.2500	N/A	N/A		N/A	KK (47)	361.2625	14.80	1.60		13.2
A-2 (98)	109.2750	N/A	N/A		N/A	LL (48)	367.2625	15.10	1.70		13.4
A-1 (99)	115.2750	11.80	-1.20		13	MM (49)	373.2625	14.90	1.80		13.1
A (14)	121.2625	11.40	-1.40		12.8	NN (50)	379.2625	14.90	1.90		13
B (15)	127.2625	13.10	-0.50		13.6	OO (51)	385.2625	15.10	2.30		12.8
C (16)	133.2625	12.90	-1.00		13.9	PP (52)	391.2625	15.10	1.60		13.5
D (17)	139.2500	13.00	-0.20		13.2	QQ (53)	397.2625	15.30	2.20		13.1
E (18)	145.2500	13.40	-0.50		13.9	RR (54)	403.2500	16.00	3.30		12.7
F (19)	151.3210	13.20	0.10		13.1	SS (55)	409.2500	16.60	1.60		15
G (20)	157.2500	13.50	0.20		13.3	TT (56)	415.2500	14.80	1.20		13.6
H (21)	163.2500	13.40	0		13.4	UU (57)	421.2500	13.90	0.60		13.3
I (22)	169.2500	13.90	0.90		13	VV (58)	427.2500	14.70	1.30		13.4
7	175.2500	14.20	0.90		13.3	WW (59)	433.2500	14.50	1.00		13.5
8	181.2500	13.70	1.10		12.6	XX (60)	439.2500	14.40	1.40		13
9	187.2500	13.60	0.50		13.1	YY (61)	445.2500	14.50	1.10		13.4
10	193.2500	14.10	1.30		12.8	ZZ (62)	451.2500	14.60	1.30		13.3
11	199.2500	14.40	0.80		13.6	63	457.2500	15.00	1.30		13.7
12	205.2500	13.80	-0.30		14.1	64	463.2500	14.40	1.00		13.4
13	211.2500	14.40	1.40		13	65	469.2500	14.90	1.80		13.1
J (23)	217.2500	14.10	1.00		13.1	66	475.2500	14.60	2.00		12.6
K (24)	223.2500	14.60	0.80		13.8	67	481.2500	14.60	1.30		13.3
L (25)	229.2625	14.40	1.60		12.8	68	487.2500	14.60	1.10		13.5
M (26)	235.2625	14.20	1.40		12.8	69	493.2500	14.70	1.50		13.2
N (27)	241.2625	14.60	1.50		13.1	70	499.2500	14.40	1.30		13.1
O (28)	247.2625	14.30	1.50		12.8	71	505.2500	14.90	1.40		13.5
P (29)	253.2625	14.80	2.00		12.8	72	511.2500	14.40	0.50		13.9
Q (30)	259.2625	14.70	1.50		13.2	73	517.2500	14.30	1.00		13.3
R (31)	265.2625	14.90	1.70		13.2	74	523.2500	13.90	0.30		13.6
S (32)	271.2625	14.40	0.90		13.5	75	529.2500	13.70	0.50		13.2
T (33)	277.2625	14.70	0.80		13.9	76	535.2500	13.60	0.10		13.5
U (34)	283.2625	14.10	0.60		13.5	77	541.2500	N/A	N/A		N/A
V (35)	289.2625	14.70	1.30		13.4	78	547.2500	14.20	0.10		14.1
W (36)	295.2625	14.90	0.90		14	79	553.2500	N/A	N/A		N/A
AA (37)	301.2625	14.80	1.40		13.4	80	559.2500	N/A	N/A		N/A
BB (38)	307.2625	15.10	1.10		14	81	565.2500	N/A	N/A		N/A
CC (39)	313.2625	15.10	2.40		12.7						

Min Channel : 2 11.200

Max Channel : SS(55) 16.600

Peak to Valley : 5.4

TIME WARNER CABLE - SYRACUSE DIVISION

**IN CHANNEL RESPONSE TEST
CARRIER - TO - NOISE TEST
COHERENT DISTURBANCES TEST
LOW FREQUENCY DISTURBANCES TEST**

System Name : Binghamton

Date : 03/14/2007

Performed By : John Hriciso

Location : Gates Rd. Vestal

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

[illegible]

TIME WARNER CABLE - SYRACUSE DIVISION

***IN CHANNEL FREQUENCY RESPONSE TEST
(76.605) (a) (6)***

System Name : Binghamton

Date : 03/14/2007

Performed By : John Hriciso

Location : Gates Rd. Vestal

(SEE THE ATTACHED SWEEP TRACES)

00:59:31 MAR 14, 2007

27 CHANNEL  (STD)

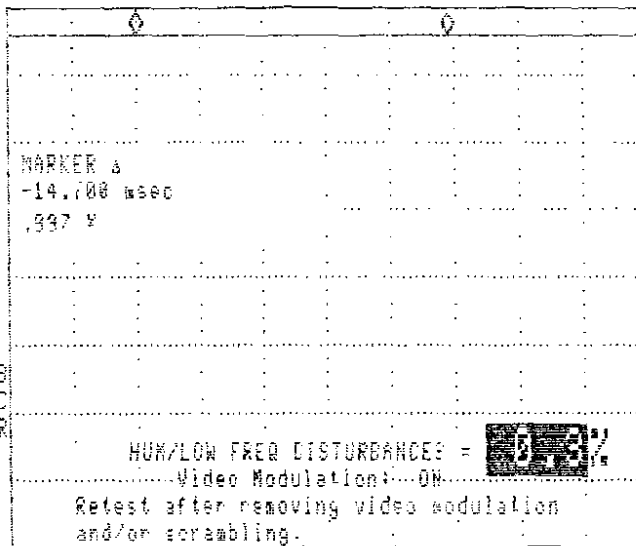
MARK Δ -14.700 msec

REF 29.62 μV 31 10 dB

,997 X

PEAK
LIN

WA SB
SC FC
CORR



START 67.240 MHz

#RES BW 1.0 MHz

#VBW 1 MHz

STOP 67.240 MHz

#SWP 30.0 msec

MORE
INFO

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1. FREQ MEASUREMENT RANGE (14 MHz) - INFO
 2. ARENDSE MODULATION (or Tune RATE ON) -
 3. RANGE CONTROLS (POWER) - Note

SECRET

```

START 877.762 MHz                                STOP 889.768 MHz
HREF BW 80 kHz                                    SWP 5.00 %
01:05:54 MAR 14, 2007                            AVER 100 Hz
* CHANNEL 14: 1STD0                               MKR 242.011 MHz
REF -21.8 dBmV                                     -86.34 dBmV

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USE KNOP OR 'HEAT BEAT' WITH 1000V WARMER

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 10

START 239.762 MHz STOP 245.762 MHz
 4070 00 00 00 4070 100 00
 SKP 0.00 0.00

Q1: 21.24 KHz 14, 1307
 AF: CHANNEL 1 (100.510) hkr 127.247 KHz
 RF: 11.0 dBmW hkr 18.02
 -85.85 dBmW

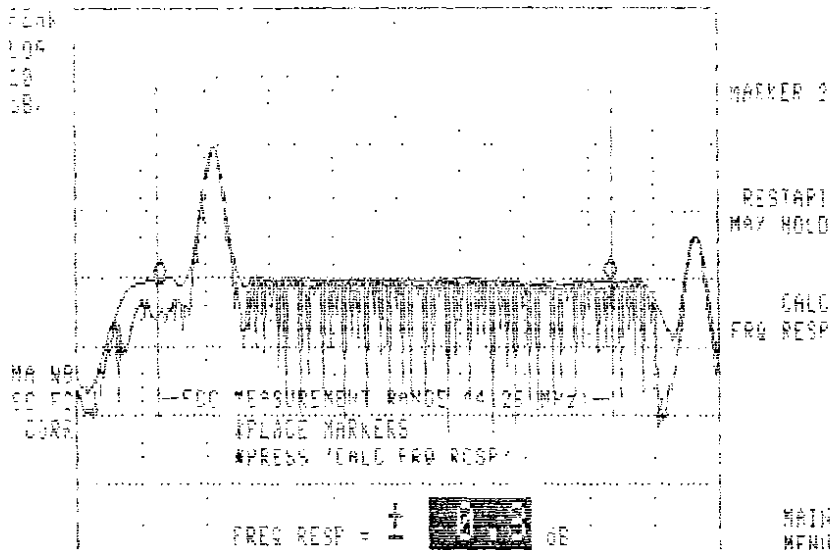
log Rp

log [I]

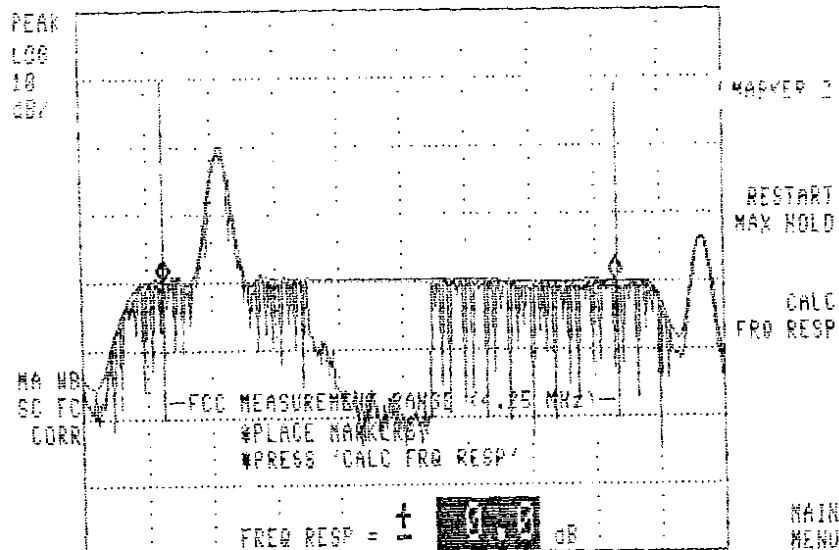
log Rp = 1/2 log [I] + 0.75

"THE KING OF THE BEAT" IS TO HOLD PARTY

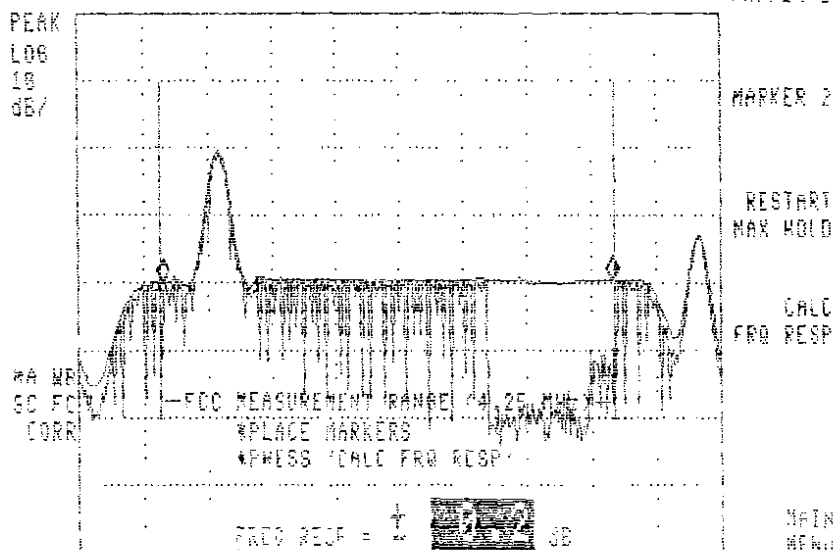
1. **DATE** 10-1-80 **TIME** 11:00 **NAME** D. J. ...
 2. **DATE** 10-1-80 **TIME** 11:00 **NAME** D. J. ...
 3. **DATE** 10-1-80 **TIME** 11:00 **NAME** D. J. ...
 4. **DATE** 10-1-80 **TIME** 11:00 **NAME** D. J. ...
 5. **DATE** 10-1-80 **TIME** 11:00 **NAME** D. J. ...
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 10. **DATE** 10-1-80 **TIME** 11:00 **NAME** D. J. ...



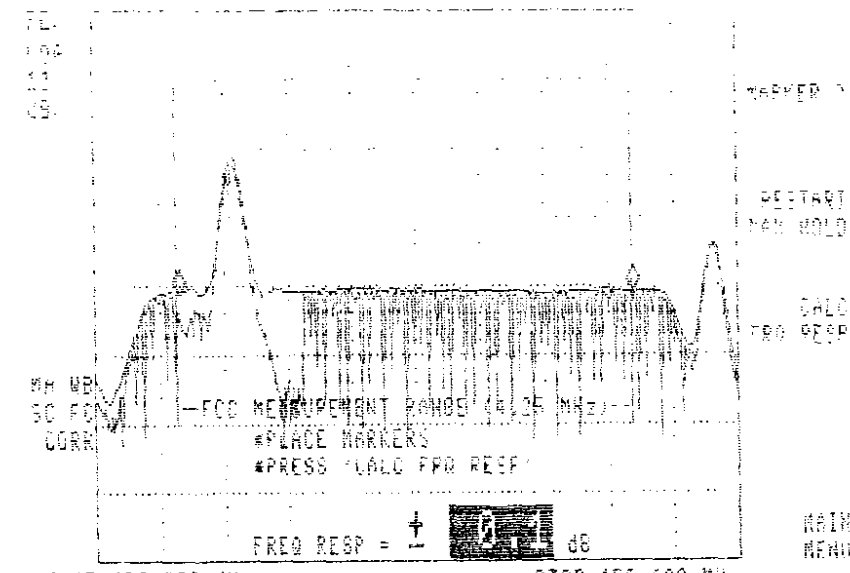
START 240.000 MHz STOP 248.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 ussec
 01:45:08 MAR 14, 2007
 CHANNEL 107B (STD) MKR 328.995 MHz
 REF 31.3 dBmV AT 10 dB -0.61 dBmV



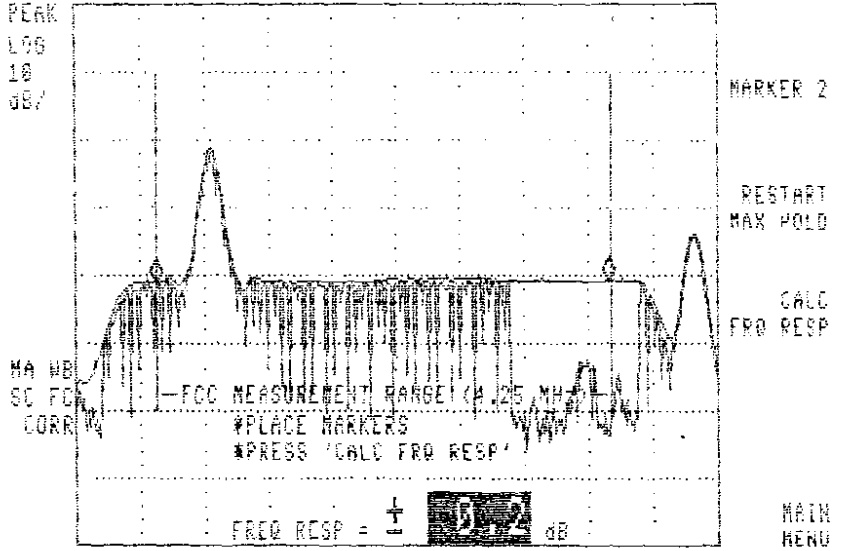
START 324.000 MHz STOP 330.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 ussec
 01:55:07 MAR 14, 2007
 CHANNEL 107B (STD) MKR 332.995 MHz
 REF 31.3 dBmV AT 10 dB -0.30 dBmV



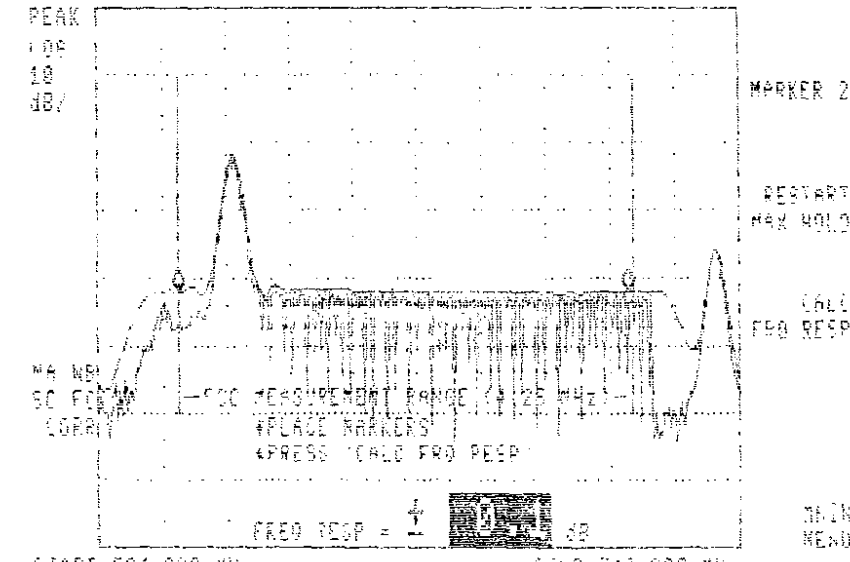
START 378.000 MHz STOP 384.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 ussec



START 450.000 MHz STOP 455.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec
 02:06:20 MAR 14, 2007
 CHANNEL 500 (STD) MKR 464.995 MHz
 REF 31.3 dBmV AT 10 dB -9.48 dBmV



START 490.000 MHz STOP 495.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec
 02:13:52 MAR 14, 2007
 CHANNEL 500 (STD) MKR 508.965 MHz
 REF 31.4 dBmV AT 10 dB -10.64 dBmV



START 500.000 MHz STOP 505.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

TESTPOINT 7, PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION**VISUAL CARRIER LEVEL VARIATION TEST**

System Name : Binghamton **Test Location** : Gates Rd. Vestal
Date : 02/19/2007 **Performed By** : John Hriciso
Meter Serial Number : 6033315

TEMP F							TEMP F						
1.90 28.40 19.40 19.40							1.90 28.40 19.40 19.40						
TIME							TIME						
08:54:00 14:54:00 20:54:00 02:54:00							08:54:00 14:54:00 20:54:00 02:54:00						
CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR	CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR
2	55 2500	11 20	10 50	10 70	10 80	0.7	DD(40)	319 2625	14 90	13 80	13 90	13 90	1.1
3	61 2500	11 70	11 50	11 40	11 20	0.5	EE(41)	325 2625	15 20	14 50	14 40	14 70	0.8
4	67 2500	12 50	11 60	11 70	11 80	0.9	FF(42)	331 2750	15 10	14 50	14 40	14 60	0.7
5	77 2500	11 20	10 80	10 80	10 90	0.4	GG(43)	337 2625	14 90	14 60	14 10	14 20	0.8
6	83 2500	11 90	11 40	11 20	11 30	0.7	HH(44)	343 2625	14 40	13 80	13 90	13 70	0.7
A-5(95)	91 2500						II(45)	349 2625	14 50	13 60	13 50	13 40	1.1
A-4(56)	97 2500						JJ(46)	355 2625	14 60	14 20	13 80	13 90	0.8
A-3(47)	103 2500						KK(47)	361 2625	14 80	14 20	14 10	14 10	0.7
A-2(98)	109 2750						LL(48)	367 2625	15 10	14 60	14 30	14 40	0.8
A-1(99)	115 2750	11 80	11 80	11 30	11 40	0.5	MM(49)	373 2625	14 90	14 20	14 10	14 00	0.9
A(14)	121 2625	11 40	11 20	11 00	10 70	0.7	NN(50)	379 2625	14 90	14 30	14 40	14 80	0.6
B(15)	127 2625	13 10	12 10	12 10	11 90	1.2	OO(51)	385 2625	15 10	14 40	14 30	14 10	1
C(16)	133 2625	12 90	12 20	12 20	11 80	1.1	PP(52)	391 2625	15 10	14 30	14 10	14 20	1
D(17)	139 2500	13 00	12 60	12 50	12 50	0.5	QQ(53)	397 2625	15 30	15 00	14 90	14 70	0.6
E(18)	145 2500	13 40	12 50	12 70	12 40	1	RR(54)	403 2500	16 00	16 00	15 40	16 20	0.8
F(19)	151 3210	13 20	12 40	12 90	12 50	0.8	SS(55)	409 2500	16 60	15 90	16 10	15 90	0.7
G(20)	157 2500	13 50	12 70	12 70	13 00	0.8	TT(56)	415 2500	14 80	13 90	14 50	13 80	1
H(21)	163 2500	13 40	12 70	12 90	12 80	0.7	UU(57)	421 2500	13 90	13 40	13 40	13 10	0.8
I(22)	169 2500	13 90	13 20	13 30	13 30	0.7	VV(58)	427 2500	14 70	14 10	14 10	14 20	0.6
7	175 2500	14 20	13 40	13 80	13 10	0.9	WW(59)	433 2500	14 50	13 90	13 90	13 90	0.6
8	181 2500	13 70	12 70	12 90	12 70	1	XX(60)	439 2500	14 40	13 40	13 30	13 40	1.1
9	187 2500	13 60	12 70	12 80	12 80	0.9	YY(61)	445 2500	14 50	13 70	13 80	13 70	0.6
10	193 2500	14 10	13 70	13 60	13 60	0.5	ZZ(62)	451 2500	14 60	14 20	14 00	13 80	0.8
11	199 2500	14 40	13 80	13 60	13 80	0.8	63	457 2500	15 00	14 10	14 10	14 40	0.9
12	205 2500	13 80	13 10	13 10	13 40	0.7	64	463 2500	14 40	13 60	13 70	13 60	0.8
13	211 2500	14 40	13 90	13 60	13 60	0.8	65	469 2500	14 90	14 10	14 10	14 40	0.8
J(23)	217 2500	14 10	13 40	13 70	13 50	0.7	66	475 2500	14 60	14 00	14 20	14 30	0.6
K(24)	223 2500	14 60	14 10	13 80	13 90	0.8	67	481 2500	14 60	13 80	14 10	14 10	0.8
L(25)	229 2625	14 40	13 80	13 80	14 20	0.6	68	487 2500	14 60	14 20	14 10	14 10	0.5
M(26)	235 2625	14 20	13 80	13 70	13 70	0.5	69	493 2500	14 70	14 10	14 30	14 30	0.6
N(27)	241 2625	14 60	13 90	13 90	14 40	0.7	70	499 2500	14 40	14 10	13 90	14 40	0.5
O(28)	247 2625	14 30	13 60	13 50	13 60	0.8	71	505 2500	14 90	14 20	14 10	14 50	0.8
P(29)	253 2625	14 80	14 10	14 10	14 10	0.7	72	511 2500	14 40	14 10	13 60	14 10	0.8
Q(30)	259 2625	14 70	14 10	13 80	14 00	0.9	73	517 2500	14 30	13 70	13 70	13 90	0.6
R(31)	265 2625	14 90	14 60	14 00	14 70	0.9	74	523 2500	13 90	13 10	13 10	13 30	0.8
S(32)	271 2625	14 40	13 80	13 50	13 70	0.9	75	529 2500	13 70	13 00	13 40	13 10	0.7
T(33)	277 2625	14 70	14 10	13 90	14 10	0.8	76	535 2500	13 60	13 00	13 20	13 40	0.6
U(34)	283 2625	14 10	13 40	13 40	13 60	0.7	77	541 2500					
V(35)	289 2625	14 70	13 80	13 70	13 90	1	78	547 2500	14 20	13 30	13 50	13 20	1
W(36)	295 2625	14 90	14 10	14 30	14 20	0.8	79	553 2500					
AA(37)	301 2625	14 80	14 20	14 20	14 20	0.5	80	559 2500					
BB(38)	307 2625	15 10	14 30	14 40	14 50	0.8	81	565 2500					
CC(39)	313 2625	15 10	14 50	14 40	14 20	0.9							

Max Non Adjacent Channel Level Diff : - 5.5
Max Adjacent Channel Level Diff : - 2.1
Max Variance from last proof of performance test : - 0
Date of last proof of performance test : - N/A

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

TIME WARNER CABLE - SYRACUSE DIVISION

<i>System Name</i>	:	Binghamton
<i>System Test Point #</i>	:	8
<i>Hub Name</i>	:	State
<i>Location</i>	:	Rt.11 Kirkwood
<i>Map Number</i>	:	
<i>Pole Number</i>	:	(E677/308)(T-38)
<i>D.T. Value</i>	:	17
<i>OR Number</i>	:	1
<i>GNA Cascade</i>	:	4
<i>LE Cascade</i>	:	1

TIME WARNER CABLE - SYRACUSE DIVISION

**VISUAL CARRIER LEVEL
VISUAL / AURAL LEVEL DIFFERENCE
(at Test Point, at the end of a 100' Drop)**

System Name : Binghamton **Test Location** : Rt.11 Kirkwood
Date : 02/22/2007 **Time** : 08:51:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)
2	55.2500	12.70	-0.80		13.5	DD (40)	319.2625	15.10	1.50		13.6
3	61.2500	12.60	-1.50		14.1	EE (41)	325.2625	15.90	1.90		14
4	67.2500	12.70	-1.40		14.1	FF (42)	331.2750	15.70	2.20		13.5
5	77.2500	12.10	-2.30		14.4	GG (43)	337.2625	15.70	1.50		14.2
6	83.2500	12.30	-2.20		14.5	HH (44)	343.2625	15.50	1.60		13.9
A-5 (95)	91.2500	N/A	N/A		N/A	II (45)	349.2625	15.50	1.90		13.6
A-4 (96)	97.2500	N/A	N/A		N/A	JJ (46)	355.2625	15.70	2.10		13.6
A-3 (97)	103.2500	N/A	N/A		N/A	KK (47)	361.2625	16.10	2.80		13.3
A-2 (98)	109.2750	N/A	N/A		N/A	LL (48)	367.2625	16.10	2.30		13.8
A-1 (99)	115.2750	12.10	-2.00		14.1	MM (49)	373.2625	16.30	2.30		14
A (14)	121.2625	12.10	-1.60		13.7	NN (50)	379.2625	15.90	1.60		14.3
B (15)	127.2625	12.40	-1.60		14	OO (51)	385.2625	15.80	1.90		13.9
C (16)	133.2625	12.10	-1.50		13.6	PP (52)	391.2625	15.50	1.30		14.2
D (17)	139.2500	12.80	-1.00		13.8	QQ (53)	397.2625	15.70	1.40		14.3
E (18)	145.2500	12.30	-1.70		14	RR (54)	403.2500	15.30	1.80		13.5
F (19)	151.3210	12.60	-1.30		13.9	SS (55)	409.2500	15.40	1.60		13.8
G (20)	157.2500	12.30	-0.90		13.2	TT (56)	415.2500	15.50	2.10		13.4
H (21)	163.2500	12.70	-1.20		13.9	UU (57)	421.2500	15.70	1.70		14
I (22)	169.2500	13.10	-0.50		13.6	VV (58)	427.2500	16.10	2.30		13.8
7	175.2500	13.50	0.30		13.2	WW (59)	433.2500	16.00	1.90		14.1
8	181.2500	12.80	-0.60		13.4	XX (60)	439.2500	15.70	2.50		13.2
9	187.2500	12.50	-1.10		13.6	YY (61)	445.2500	16.00	2.20		13.8
10	193.2500	13.10	-0.60		13.7	ZZ (62)	451.2500	16.50	2.80		13.7
11	199.2500	12.60	-1.10		13.7	63	457.2500	16.60	2.40		14.2
12	205.2500	12.80	-2.00		14.8	64	463.2500	16.10	2.90		13.2
13	211.2500	12.30	-0.80		13.1	65	469.2500	16.70	2.90		13.8
J (23)	217.2500	12.90	-0.70		13.6	66	475.2500	16.60	3.10		13.5
K (24)	223.2500	13.40	-0.60		14	67	481.2500	16.30	2.70		13.6
L (25)	229.2625	13.10	0		13.1	68	487.2500	16.30	2.80		13.5
M (26)	235.2625	13.10	-0.20		13.3	69	493.2500	16.80	3.20		13.6
N (27)	241.2625	13.20	-1.10		14.3	70	499.2500	16.50	2.40		14.1
O (28)	247.2625	12.30	-0.20		12.5	71	505.2500	16.90	3.40		13.5
P (29)	253.2625	13.40	-0.30		13.7	72	511.2500	16.70	2.80		13.9
Q (30)	259.2625	13.70	0		13.7	73	517.2500	17.00	3.80		13.2
R (31)	265.2625	13.80	0.90		12.9	74	523.2500	16.70	3.00		13.7
S (32)	271.2625	14.10	-0.20		14.3	75	529.2500	16.90	3.50		13.4
T (33)	277.2625	13.90	-0.80		14.7	76	535.2500	17.80	3.50		14.3
U (34)	283.2625	13.60	0.30		13.3	77	541.2500	N/A	N/A		N/A
V (35)	289.2625	14.40	1.20		13.2	78	547.2500	18.30	3.80		14.5
W (36)	295.2625	15.00	0.50		14.5	79	553.2500	N/A	N/A		N/A
AA (37)	301.2625	15.20	0.90		14.3	80	559.2500	N/A	N/A		N/A
BB (38)	307.2625	15.10	0.30		14.8	81	565.2500	N/A	N/A		N/A
CC (39)	313.2625	14.10	1.70		12.4						

Min Channel : 5 12.100

Max Channel : 78 18.300

Peak to Valley : 6.2

TIME WARNER CABLE - SYRACUSE DIVISION

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

System Name : Binghamton

Date : 03/11/2007

Performed By : John Hriciso

Location : Rt.11 Kirkwood

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

CHANNEL NUMBER	IN CHANNEL RESPONSE	CARRIER TO NOISE RATIO	DISTORTIONS	CSO	HUM
	(+/- DB)	(DB)	(-DBC) CTB		(%)
4	0.3	46.9	68.0	75.0	0.4
15	0.2	45.7	65.5	70.6	
12	0.0	46.1	54.1	73.2	
27	0.1	46.1	63.5	68.8	
41	0.1	46.3	61.1	66.3	
50	0.2	48.1	59.3	70.1	
62	0.2	47.3	57.5	70.7	
67	0.3	46.2	62.9	68.4	
76	0.3	45.7	62.4	68.1	

TIME WARNER CABLE - SYRACUSE DIVISION

***IN CHANNEL FREQUENCY RESPONSE TEST
(76.605) (a) (6)***

System Name : Binghamton

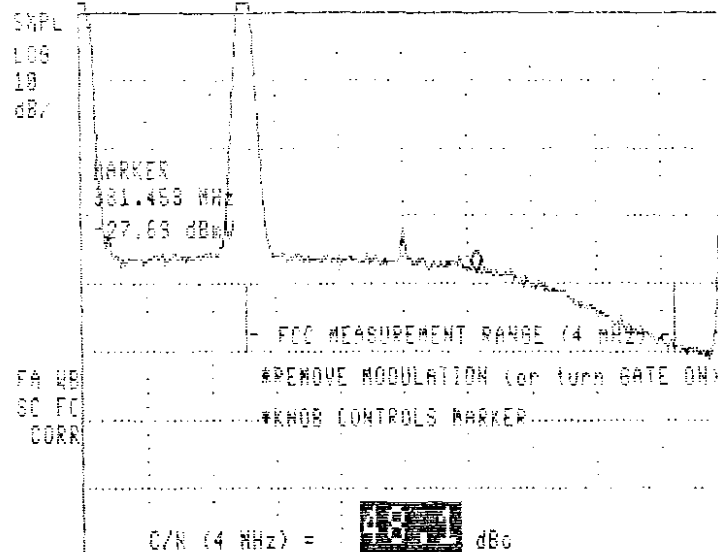
Date : 03/11/2007

Performed By : John Hriciso

Location : Rt.11 Kirkwood

(SEE THE ATTACHED SWEEP TRACES)

UNIT: 100 MHz 12.100
 CHANNEL 550 (STD) MKR 381.453 MHz
 REF 10.9 dBmV #AT 10 dB -27.69 dBmV



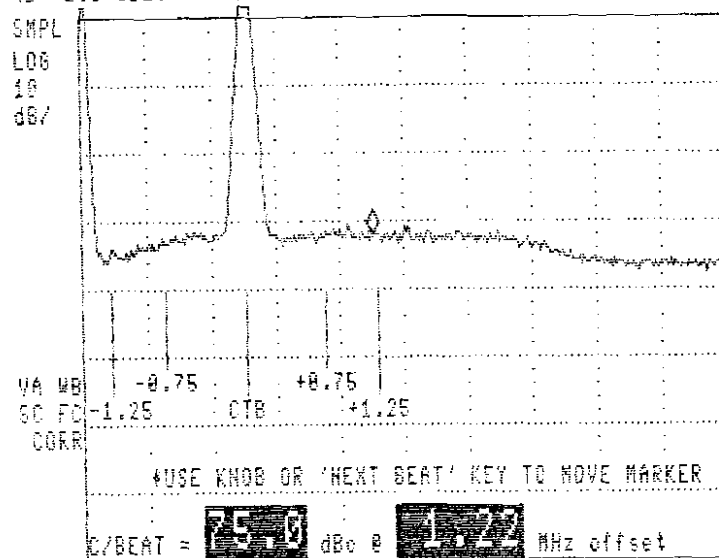
UNIT
 GATE
 ON OFF
 AVERAGE
 ON OFF

MORE
 INFO

None

MAIN
 MENU

START 377.763 MHz STOP 383.753 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 6.00 sec
 23:17:16 MAR 11, 2007
 CHANNEL 550 (STD) MKR 68.465 MHz
 REF 2.8 dBmV #AT 20 dB -29.04 dBmV



UNIT
 GATE
 ON OFF
 AVERAGE
 ON OFF

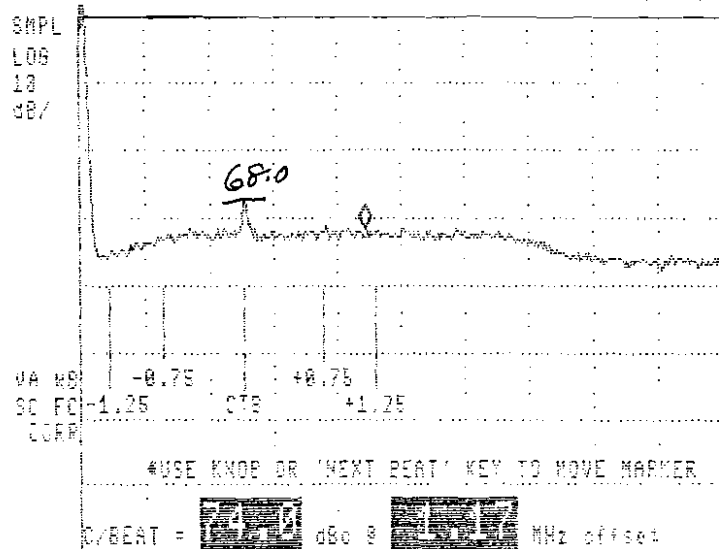
ZOOM &
 MEASURE

NEXT
 BEAT

None

MAIN
 MENU

START 65.750 MHz STOP 71.750 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 5.00 sec
 23:18:07 MAR 11, 2007
 CHANNEL 550 (STD) MKR 68.420 MHz
 REF 2.8 dBmV #AT 20 dB -28.71 dBmV



UNIT
 GATE
 ON OFF
 AVERAGE
 ON OFF

ZOOM &
 MEASURE

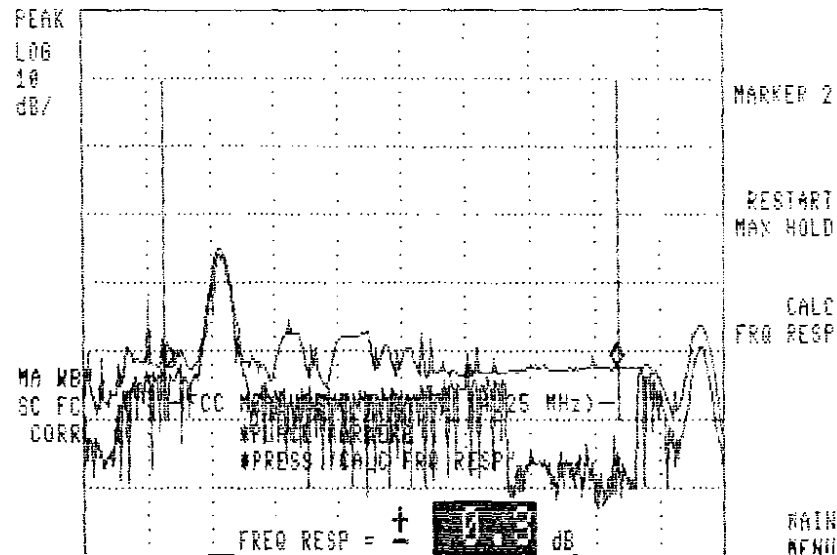
NEXT
 BEAT

None

MAIN
 MENU

START 65.750 MHz STOP 71.750 MHz
 #RES BW 30 kHz #VBW 100 Hz SWP 5.00 sec

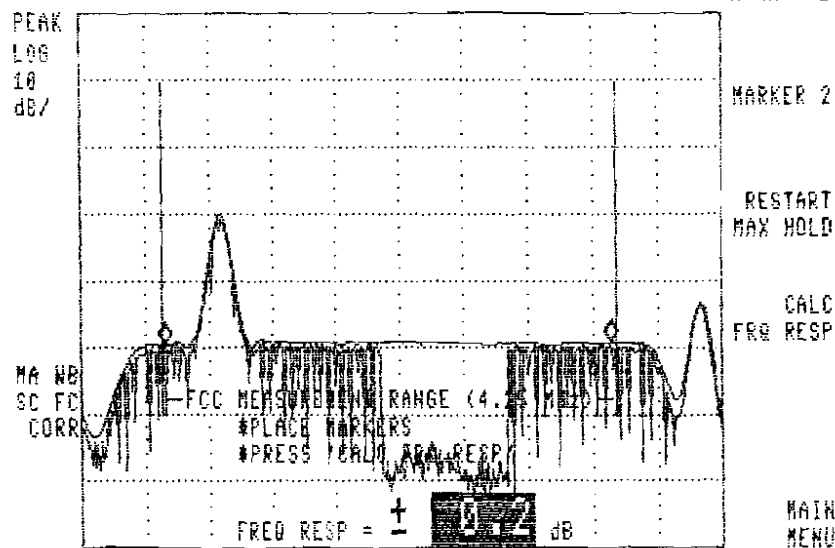
20:12:12 MAR 11, 2007
 CHANNEL 001 (STD) MKR 70.995 MHz
 REF 40.4 dBμV AT 10 dB -12.09 dBμV MARKER 1



START 65.000 MHz STOP 72.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

20:28:24 MAR 11, 2007

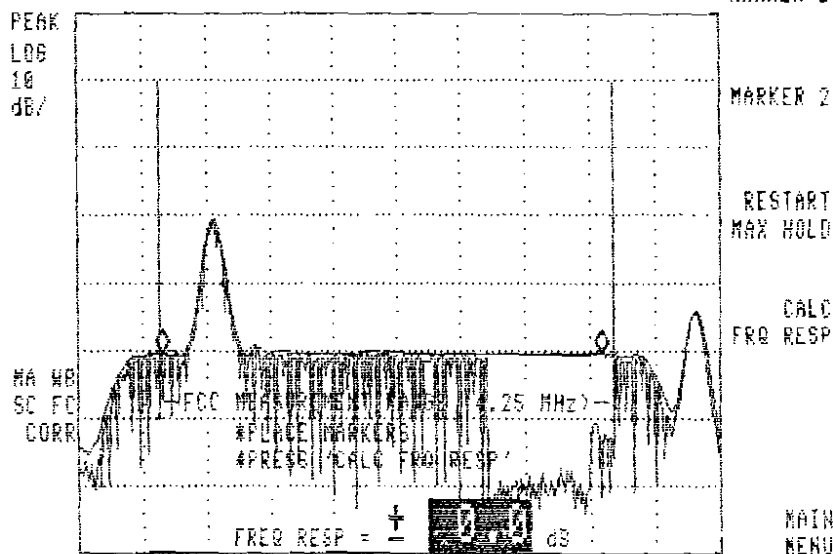
CHANNEL 003 (STD) MKR 130.965 MHz
 REF 40.4 dBμV AT 10 dB -8.77 dBμV MARKER 1



START 125.000 MHz STOP 132.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

20:37:19 MAR 11, 2007

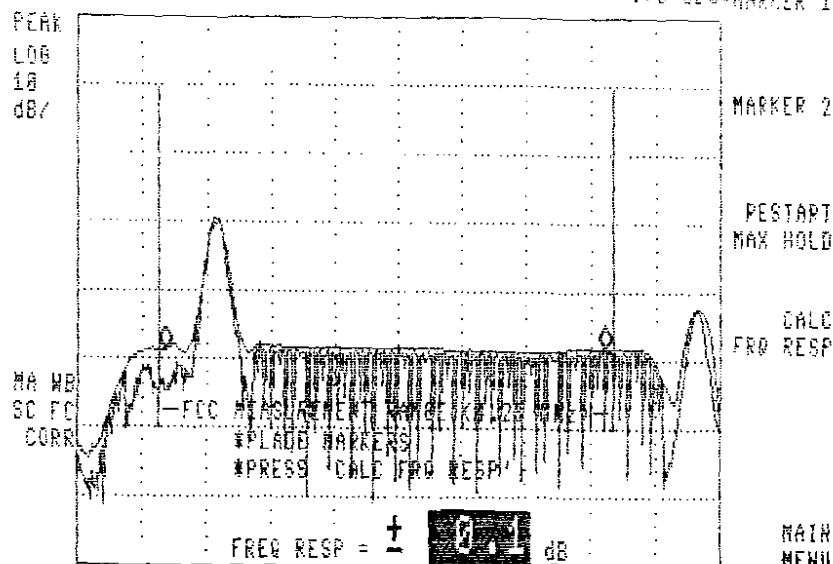
CHANNEL 002 (STD) MKR 208.905 MHz
 REF 42.2 dBμV AT 10 dB -8.39 dBμV MARKER 1



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

CONTROL MAR 11, 2007
CHANNEL 53 (STD)
REF 40.7 dBmV AT 10 dB

MKR 244.935 MHz
-7.70 dBmV MARKER 1

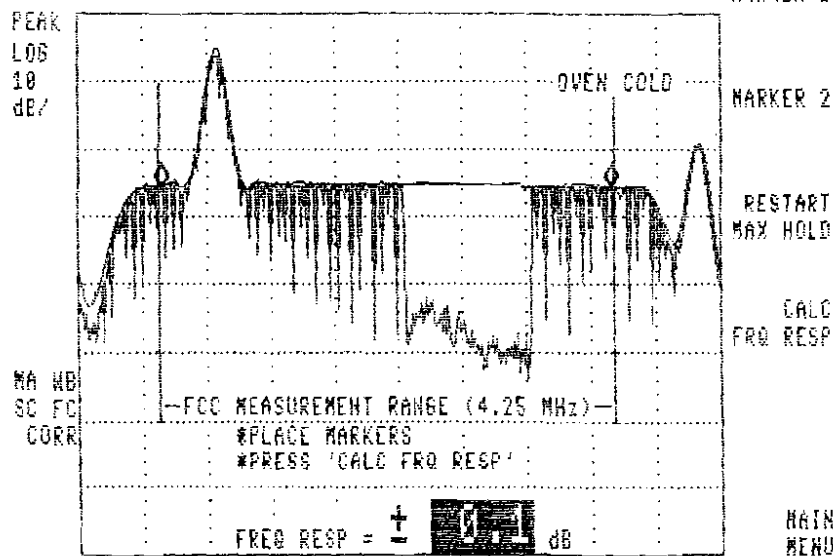


START 240.000 MHz STOP 246.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

23:59:45 MAR 11, 2007

CHANNEL 53 (STD)
REF 20.0 dBmV AT 10 dB

MKR 328.995 MHz
-5.54 dBmV MARKER 1

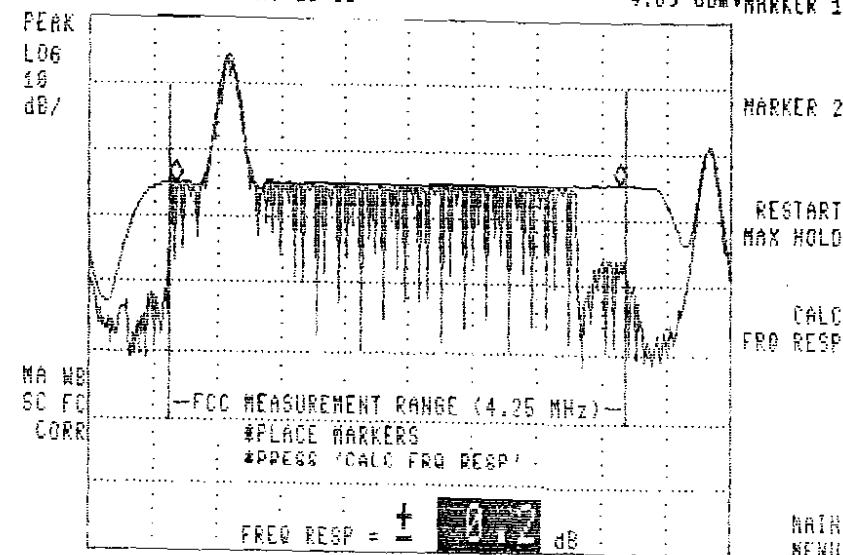


START 324.000 MHz STOP 330.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

00:06:33 MAR 12, 2007

CHANNEL 53 (STD)
REF 20.0 dBmV AT 10 dB

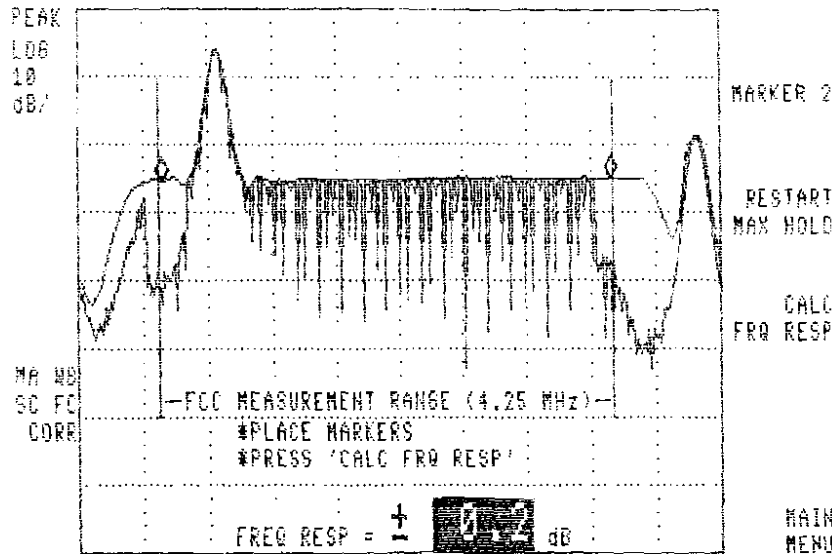
MKR 382.965 MHz
-4.89 dBmV MARKER 1



START 379.000 MHz STOP 394.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

CH0 CHANNEL 33 (STD)
REF 20.0 dBmV AT 10 dB

MRK 454.995 MHz
-5.19 dBmV MARKER 1

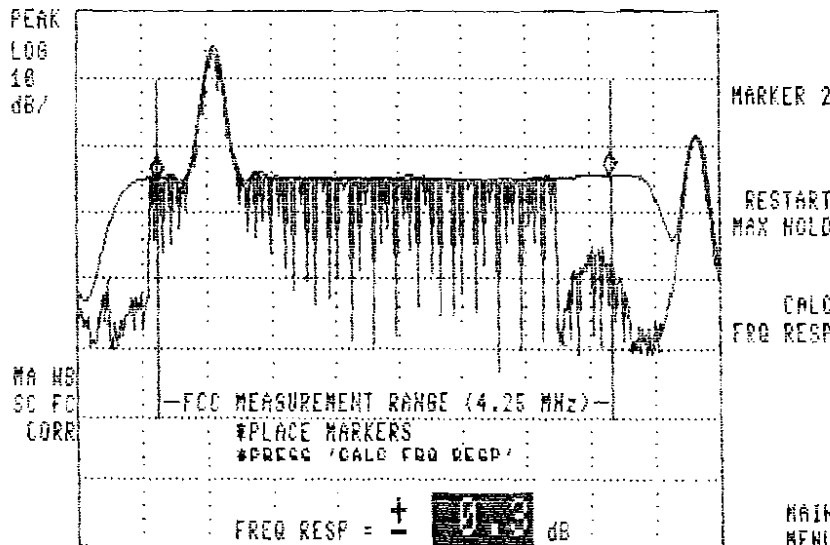


START 450.000 MHz STOP 456.000 MHz
RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

00:20:45 MAR 12, 2007

CH0 CHANNEL 33 (STD)
REF 20.0 dBmV AT 10 dB

MRK 484.995 MHz
-4.49 dBmV MARKER 1

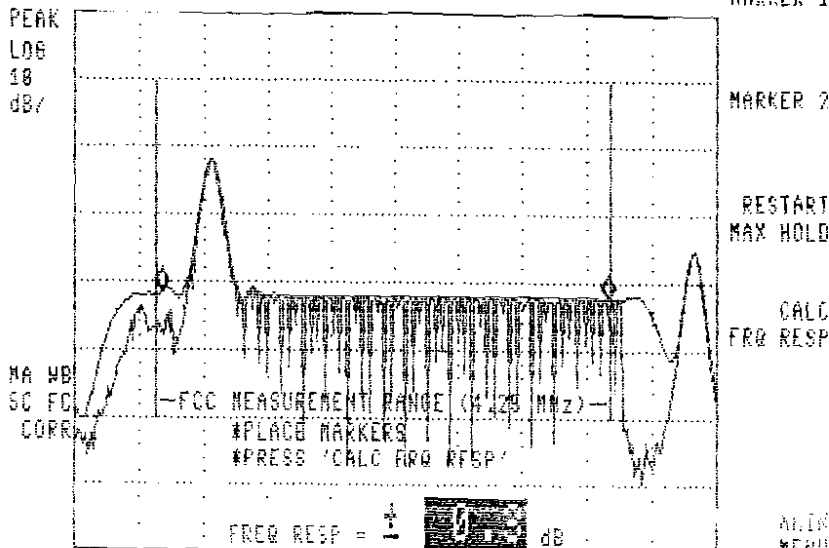


START 480.000 MHz STOP 486.000 MHz
RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

00:31:36 MAR 12, 2007

CH0 CHANNEL 33 (STD)
REF 37.7 dBmV AT 10 dB

MRK 538.995 MHz
-4.61 dBmV MARKER 1



START 534.000 MHz STOP 540.000 MHz
RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

TESTPOINT 8, PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION**VISUAL CARRIER LEVEL VARIATION TEST**

System Name : Binghamton
Date : 02/22/2007
Meter Serial Number : 9343240

Test Location : Rt.11 Kirkwood
Performed By : John Hriciso

TEMP F							TEMP F						
28.90 37.40 35.60 32.00							28.90 37.40 35.60 32.00						
TIME							TIME						
08:51:00 14:51:00 20:51:00 02:51:00							08:51:00 14:51:00 20:51:00 02:51:00						
CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR	CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR
2	55 2500	12 70	12 80	12 90	12 80	0.2	DD(40)	319 2625	15 10	15 00	14 70	14 60	0.5
3	61 2500	12 60	12 10	12 10	12 20	0.5	EE(41)	325 2625	15 90	15 40	15 40	15 80	0.5
4	67 2500	12 70	12 60	13 10	12 90	0.5	FF(42)	331 2750	15 70	15 60	15 60	15 60	0.1
5	77 2500	12 10	11 80	12 30	12 00	0.5	GG(43)	337 2625	15 70	15 50	15 50	15 40	0.3
6	83 2500	12 30	12 40	12 60	12 10	0.5	HH(44)	343 2625	15 50	15 60	15 40	15 50	0.2
A-5(95)	91 2500						II(45)	349 2625	15 50	15 30	15 10	15 20	0.4
A-4(96)	97 2500						JJ(46)	355 2625	15 70	15 80	15 90	15 70	0.2
A-3(97)	103 2500						KK(47)	361 2625	16 10	15 70	15 60	16 20	0.6
A-2(98)	109 2750						LL(48)	367 2625	16 10	16 10	16 00	15 80	0.3
A-1(99)	115 2750	12 10	12 20	12 30	12 20	0.2	MM(49)	373 2625	16 30	15 90	15 90	15 70	0.6
A(14)	121 2625	12 10	12 40	12 40	12 50	0.4	NN(50)	379 2625	15 90	15 80	15 70	15 70	0.2
B(15)	127 2625	12 40	12 60	12 60	12 60	0.2	OO(51)	385 2625	15 80	15 20	15 20	15 50	0.6
C(16)	133 2625	12 10	12 80	12 70	12 80	0.7	PP(52)	391 2625	15 50	15 10	14 70	14 90	0.8
D(17)	139 2500	12 80	13 20	13 10	13 00	0.4	QQ(53)	397 2625	15 70	15 70	15 10	15 60	0.6
E(18)	145 2500	12 30	12 70	12 80	12 50	0.5	RR(54)	403 2500	15 30	15 20	15 30	15 00	0.3
F(19)	151 3210	12 60	12 90	13 10	12 80	0.5	SS(55)	409 2500	15 40	15 30	15 30	15 30	0.1
G(20)	157 2500	12 30	12 90	13 20	13 10	0.9	TT(56)	415 2500	15 50	15 60	15 80	15 40	0.4
H(21)	163 2500	12 70	13 00	12 90	12 80	0.3	UU(57)	421 2500	15 70	15 20	15 30	15 40	0.5
I(22)	169 2500	13 10	13 60	13 50	13 30	0.5	VV(58)	427 2500	16 10	16 10	16 00	16 20	0.2
7	175 2500	13 50	13 60	13 90	13 70	0.4	WW(59)	433 2500	16 00	15 80	15 90	15 80	0.2
8	181 2500	12 80	12 90	12 90	12 50	0.4	XX(60)	439 2500	15 70	14 50	14 40	15 10	1.3
9	187 2500	12 50	12 60	12 70	12 60	0.2	YY(61)	445 2500	16 00	15 90	15 70	15 70	0.3
10	193 2500	13 10	12 80	12 90	12 50	0.6	ZZ(62)	451 2500	16 50	15 70	15 80	16 20	0.8
11	199 2500	12 60	12 30	12 30	12 30	0.3	63	457 2500	16 60	16 40	16 50	16 40	0.2
12	205 2500	12 80	12 60	12 40	12 10	0.7	64	463 2500	16 10	15 60	15 70	16 20	0.6
13	211 2500	12 30	12 60	12 50	12 50	0.3	65	469 2500	16 70	16 30	16 10	16 50	0.6
J(23)	217 2500	12 90	12 60	12 50	12 40	0.5	66	475 2500	16 60	15 90	16 00	16 40	0.7
K(24)	223 2500	13 40	13 10	13 30	13 40	0.3	67	481 2500	16 30	16 30	16 50	16 30	0.2
L(25)	229 2625	13 10	13 30	13 20	13 30	0.2	68	487 2500	16 30	16 00	16 00	16 00	0.3
M(26)	235 2625	13 10	13 30	13 20	12 80	0.5	69	493 2500	16 80	16 50	16 40	16 50	0.4
N(27)	241 2625	13 20	12 90	13 00	12 40	0.8	70	499 2500	16 50	16 20	16 10	15 90	0.6
O(28)	247 2625	12 30	12 60	12 20	12 40	0.4	71	505 2500	16 90	16 40	16 40	16 70	0.5
P(29)	253 2625	13 40	12 30	13 40	12 70	1.1	72	511 2500	16 70	16 10	16 00	16 60	0.7
Q(30)	259 2625	13 70	13 40	13 40	12 90	0.8	73	517 2500	17 00	16 60	16 50	16 90	0.5
R(31)	265 2625	13 80	14 10	14 30	13 90	0.5	74	523 2500	16 70	15 60	15 80	16 30	1.1
S(32)	271 2625	14 10	13 90	13 70	13 70	0.4	75	529 2500	16 90	16 20	16 40	16 50	0.7
T(33)	277 2625	13 90	13 70	14 00	13 90	0.3	76	535 2500	17 80	16 70	16 40	17 40	1.4
U(34)	283 2625	13 60	13 80	13 90	13 40	0.5	77	541 2500					
V(35)	289 2625	14 40	14 10	14 30	14 40	0.3	78	547 2500	18 30	16 90	16 80	17 60	1.5
W(36)	295 2625	15 00	14 80	14 50	14 80	0.5	79	553 2500					
AA(37)	301 2625	15 20	14 40	14 50	14 90	0.8	80	559 2500					
BB(38)	307 2625	15 10	14 50	15 10	15 10	0.6	81	565 2500					
CC(39)	313 2625	14 10	14 40	13 60	13 90	0.8							

Max Non Adjacent Channel Level Diff :- 6.2
Max Adjacent Channel Level Diff :- 1.5
Max Variance from last proof of performance test :- 0
Date of last proof of performance test :- N/A

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

TIME WARNER CABLE - SYRACUSE DIVISION

System Name : Binghamton

System Test Point # : 9

Hub Name : State St.

Location : Walnut St.Town of Fenton

Map Number :

Pole Number : E-7/T-13

D.T. Value : 4

OR Number : 1

GNA Cascade : 4

LE Cascade : 1

TIME WARNER CABLE - SYRACUSE DIVISION

**VISUAL CARRIER LEVEL
VISUAL / AURAL LEVEL DIFFERENCE
(at Test Point, at the end of a 100' Drop)**

System Name : Binghamton **Test Location** : Walnut St.Town of Fenton
Date : 02/19/2007 **Time** : 12:26:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)
2	55.2500	14.00	-1.00		15	DD (40)	319.2625	16.10	2.70		13.4
3	61.2500	12.80	-2.00		14.8	EE (41)	325.2625	16.90	2.50		14.4
4	67.2500	12.50	-1.20		13.7	FF (42)	331.2750	17.10	2.70		14.4
5	77.2500	12.30	-2.60		14.9	GG (43)	337.2625	16.90	2.80		14.1
6	83.2500	12.50	-1.40		13.9	HH (44)	343.2625	17.10	2.90		14.2
A-5 (95)	91.2500	N/A	N/A		N/A	II (45)	349.2625	16.60	2.90		13.7
A-4 (96)	97.2500	N/A	N/A		N/A	JJ (46)	355.2625	16.80	3.00		13.8
A-3 (97)	103.2500	N/A	N/A		N/A	KK (47)	361.2625	17.80	4.00		13.8
A-2 (98)	109.2750	N/A	N/A		N/A	LL (48)	367.2625	18.30	3.80		14.5
A-1 (99)	115.2750	12.40	-1.10		13.5	MM (49)	373.2625	17.50	4.30		13.2
A (14)	121.2625	12.60	-0.70		13.3	NN (50)	379.2625	17.90	4.10		13.8
B (15)	127.2625	14.10	0.60		13.5	OO (51)	385.2625	18.20	3.90		14.3
C (16)	133.2625	14.20	0.40		13.8	PP (52)	391.2625	17.50	2.30		15.2
D (17)	139.2500	14.40	0.40		14	QQ (53)	397.2625	17.30	3.10		14.2
E (18)	145.2500	14.10	0		14.1	RR (54)	403.2500	16.90	2.90		14
F (19)	151.3210	14.10	0.60		13.5	SS (55)	409.2500	16.50	2.30		14.2
G (20)	157.2500	14.40	0.80		13.6	TT (56)	415.2500	16.40	1.90		14.5
H (21)	163.2500	15.40	0.90		14.5	UU (57)	421.2500	15.70	1.70		14
I (22)	169.2500	15.40	1.20		14.2	VV (58)	427.2500	15.90	2.40		13.5
7	175.2500	15.30	1.40		13.9	WW (59)	433.2500	15.90	1.70		14.2
8	181.2500	14.00	0.70		13.3	XX (60)	439.2500	15.60	1.70		13.9
9	187.2500	13.80	0.40		13.4	YY (61)	445.2500	15.90	1.10		14.8
10	193.2500	13.80	0.10		13.7	ZZ (62)	451.2500	16.10	2.10		14
11	199.2500	13.50	0.20		13.3	63	457.2500	15.40	1.80		13.6
12	205.2500	14.40	-0.80		15.2	64	463.2500	15.60	1.70		13.9
13	211.2500	14.30	0.20		14.1	65	469.2500	15.40	1.60		13.8
J (23)	217.2500	13.40	0.20		13.2	66	475.2500	15.40	2.10		13.3
K (24)	223.2500	14.30	-1.50		15.8	67	481.2500	15.90	2.10		13.8
L (25)	229.2625	12.50	-0.80		13.3	68	487.2500	15.90	2.10		13.8
M (26)	235.2625	13.10	-0.40		13.5	69	493.2500	15.80	2.40		13.4
N (27)	241.2625	14.40	0.80		13.6	70	499.2500	16.60	2.80		13.8
O (28)	247.2625	14.70	0.90		13.8	71	505.2500	17.00	2.50		14.5
P (29)	253.2625	15.00	1.50		13.5	72	511.2500	16.30	2.00		14.3
Q (30)	259.2625	14.90	1.50		13.4	73	517.2500	17.20	3.40		13.8
R (31)	265.2625	15.70	2.00		13.7	74	523.2500	16.10	2.10		14
S (32)	271.2625	15.30	1.00		14.3	75	529.2500	16.60	1.60		15
I (33)	277.2625	15.30	1.50		13.8	76	535.2500	16.50	2.30		14.2
U (34)	283.2625	14.90	1.70		13.2	77	541.2500	N/A	N/A		N/A
V (35)	289.2625	15.90	1.70		14.2	78	547.2500	15.70	1.50		14.2
W (36)	295.2625	16.10	2.00		14.1	79	553.2500	N/A	N/A		N/A
AA (37)	301.2625	16.50	1.90		14.6	80	559.2500	N/A	N/A		N/A
BB (38)	307.2625	17.00	2.20		14.8	81	565.2500	N/A	N/A		N/A
CC (39)	313.2625	16.50	2.50		14						

Min Channel : 5 12.300

Max Channel : LL(48) 18.300

Peak to Valley : 6

TIME WARNER CABLE - SYRACUSE DIVISION

**IN CHANNEL RESPONSE TEST
CARRIER - TO - NOISE TEST
COHERENT DISTURBANCES TEST
LOW FREQUENCY DISTURBANCES TEST**

System Name : Binghamton

Date : 03/13/2007

Performed By : John Hriciso

Location : Walnut St. Town of Fenton

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

[illegible]

TIME WARNER CABLE - SYRACUSE DIVISION

***IN CHANNEL FREQUENCY RESPONSE TEST
(76.605) (a) (6)***

System Name : Binghamton

Date : 03/13/2007

Performed By : John Hriciso

Location : Walnut St.Town of Fenton

(SEE THE ATTACHED SWEEP TRACES)

00:02:10 MAP 15, 2007

CHANNEL (STD)

MARK Δ 27.075 msec

REF 21.58 mV AT 10 dB

.997 %

PEAK

LIN

MARKER Δ
27.075 msec
.997 %

NO SB

SC FC

CORR

HIGH/LOW FREQ DISTURBANCES = 0.4%
Video Modulation: ON

START 67.235 MHz

#RES BW 1.0 MHz

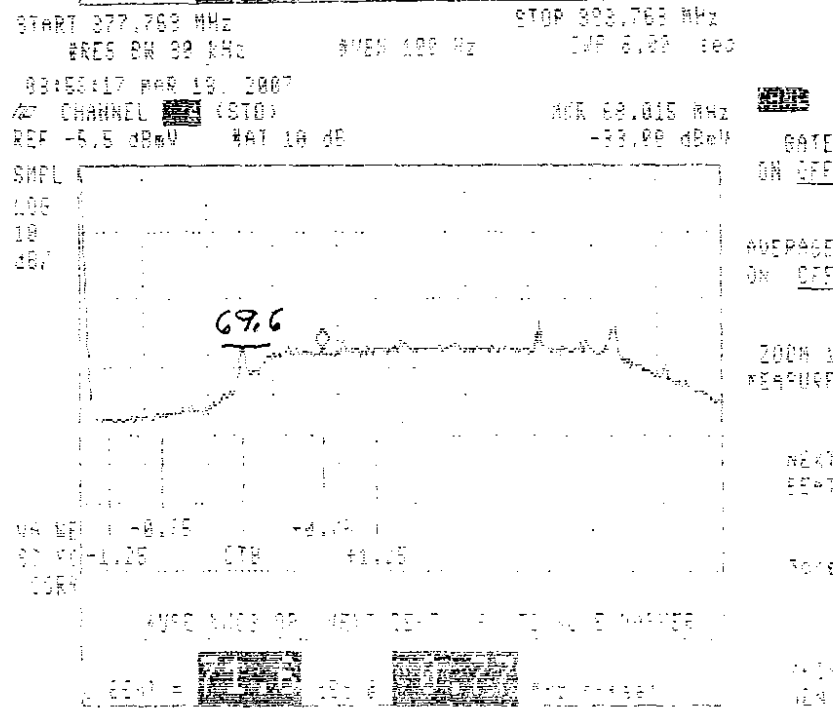
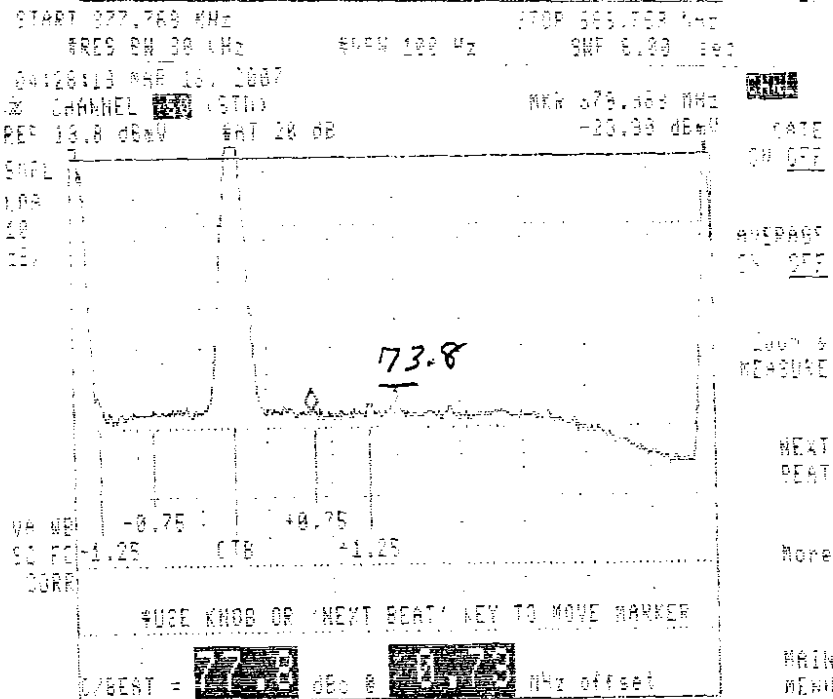
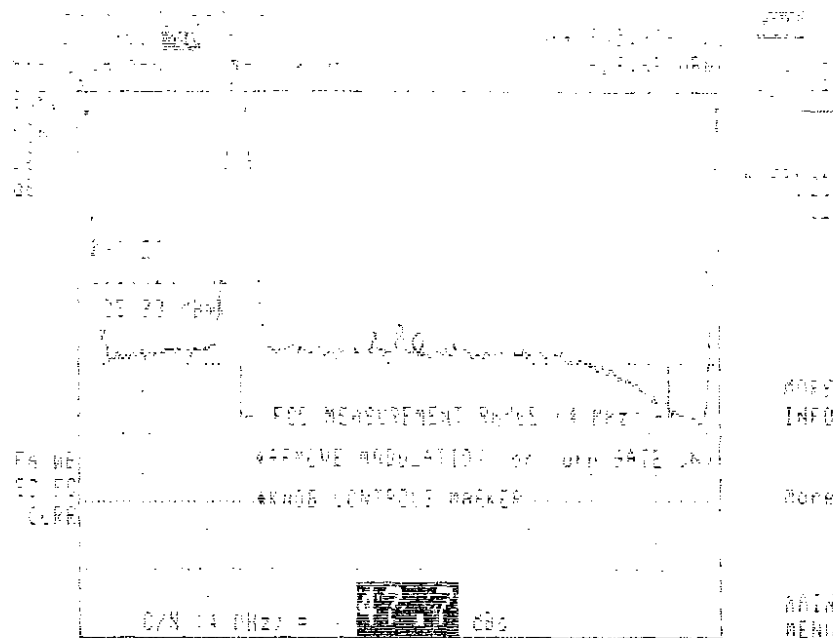
#VEN 1 MHz

STOP 67.235 MHz

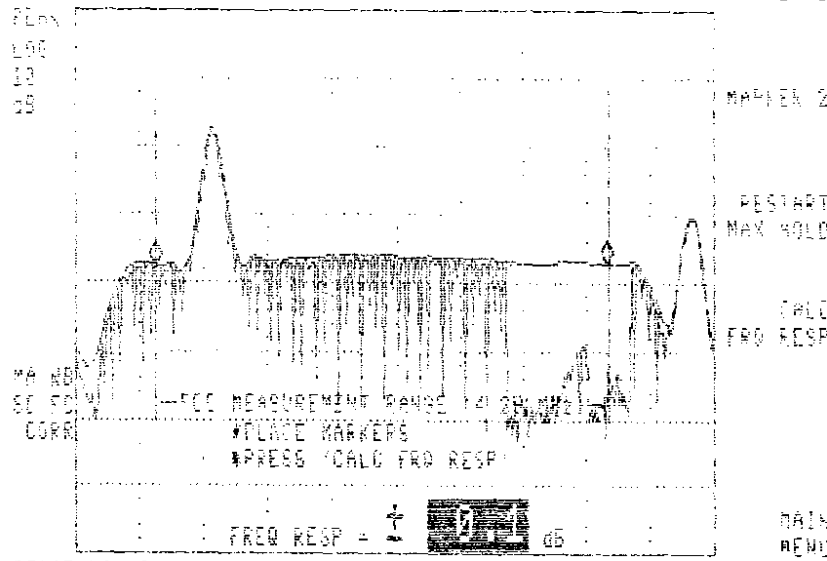
#SWP 30.0 msec

MORE
INFO

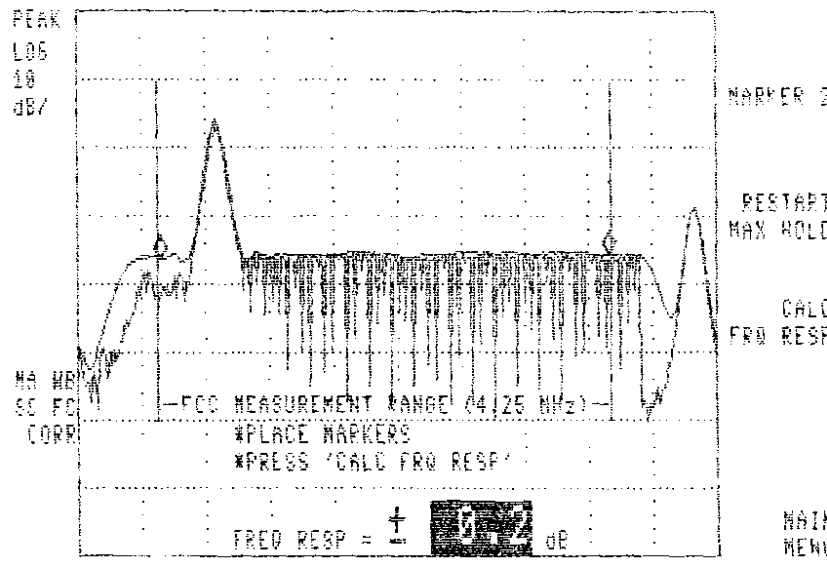
MAIN
MENU



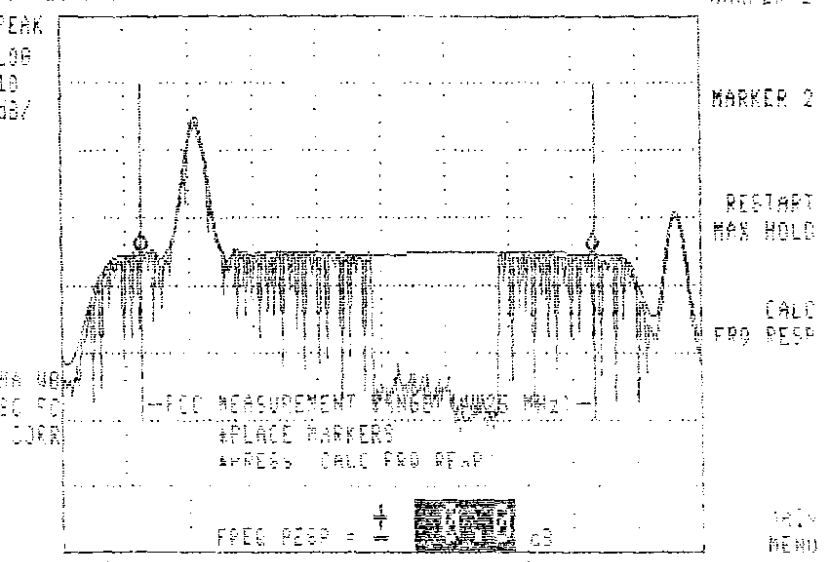
10:04:10 MAR 13, 2007
 AT 1-APR01 9 C
 REF 28.5 dBmV AT 10 dB
 NKR 130.995 MHz
 -6.46 dBmV MARKER 1



START 129.999 MHz STOP 131.999 MHz
 RES BW 100 kHz SWP 1 MHz SWF 20.0 msec
 04:08:10 MAR 13, 2007
 CHANNEL 2 (STD) NKR 130.995 MHz
 REF 28.5 dBmV AT 10 dB -7.45 dBmV MARKER 1

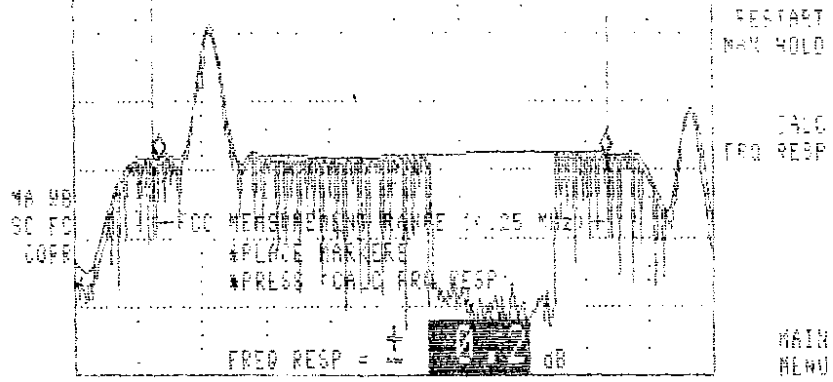


START 129.999 MHz STOP 131.999 MHz
 RES BW 100 kHz SWP 1 MHz SWF 20.0 msec
 04:08:10 MAR 13, 2007
 CHANNEL 2 (STD) NKR 200.395 MHz
 REF 28.5 dBmV AT 10 dB -7.67 dBmV MARKER 1

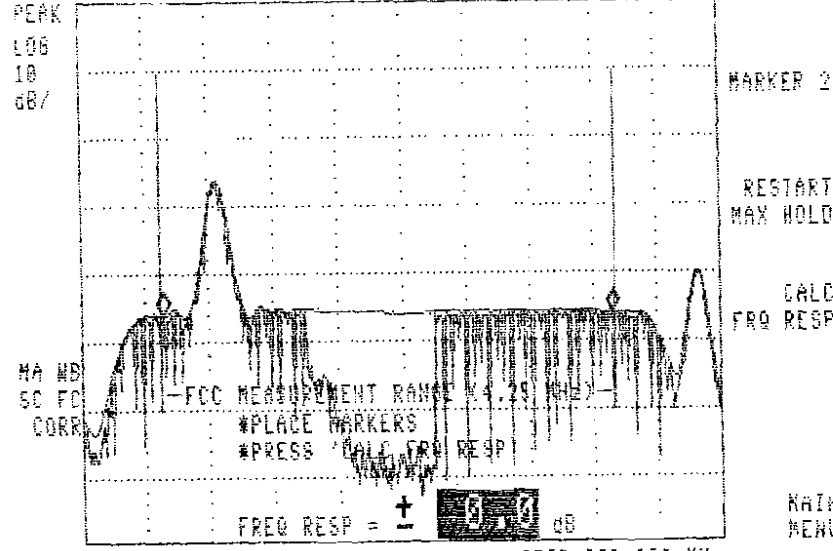


START 199.999 MHz STOP 200.799 MHz
 RES BW 100 kHz SWP 1 MHz SWF 20.0 msec

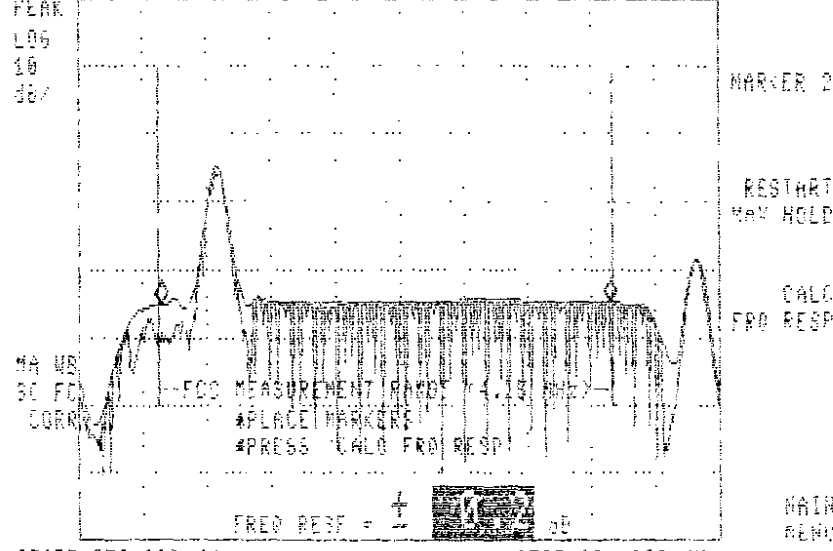
1. 20.000 MHz
 2. Channel 1 (STD)
 3. 10 dB
 4. 10.000 MHz
 5. 10.000 MHz
 6. 10.000 MHz
 7. 10.000 MHz
 8. 10.000 MHz
 9. 10.000 MHz
 10. 10.000 MHz



START 248.000 MHz STOP 249.000 MHz
 #RES BW 100 kHz #VBW 3 kHz SWP 20.0 #sec
 24:22:56 MAR 13, 2007
 CHAN 1 (STD) MKR 328.995 MHz
 REF 41.5 dBm AT 10 dB -4.42 dBm MARKER 1

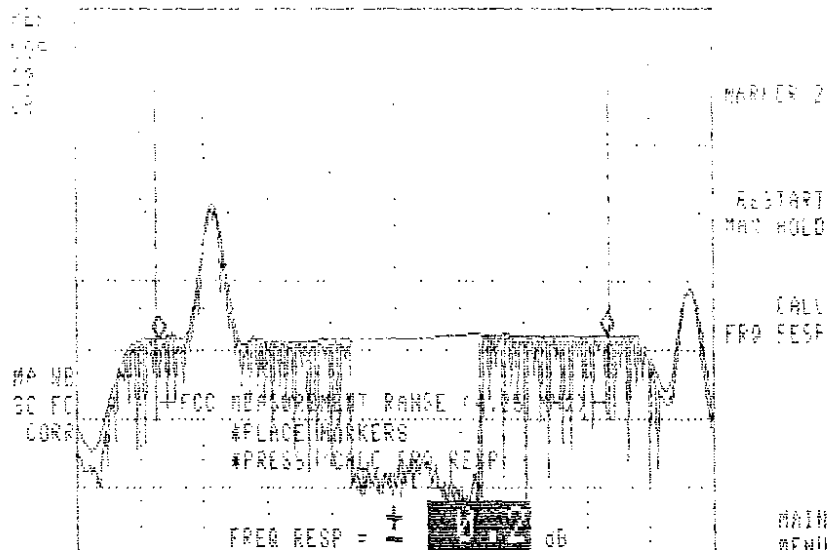


START 324.000 MHz STOP 325.000 MHz
 #RES BW 100 kHz #VBW 3 kHz SWP 20.0 #sec
 04:00:02 MAR 13, 2007
 CHAN 1 (STD) MKR 332.995 MHz
 REF 41.5 dBm AT 10 dB -3.38 dBm MARKER 1

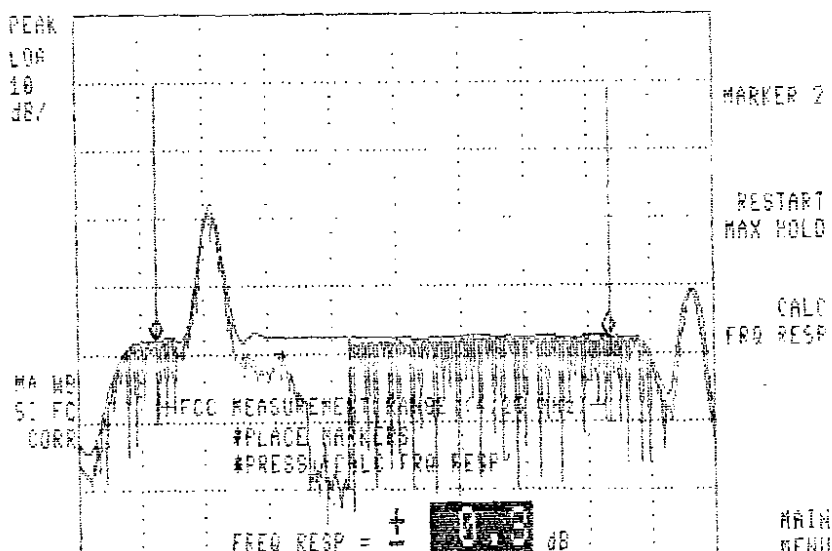


START 378.000 MHz STOP 384.000 MHz
 #RES BW 100 kHz #VBW 3 kHz SWP 20.0 #sec

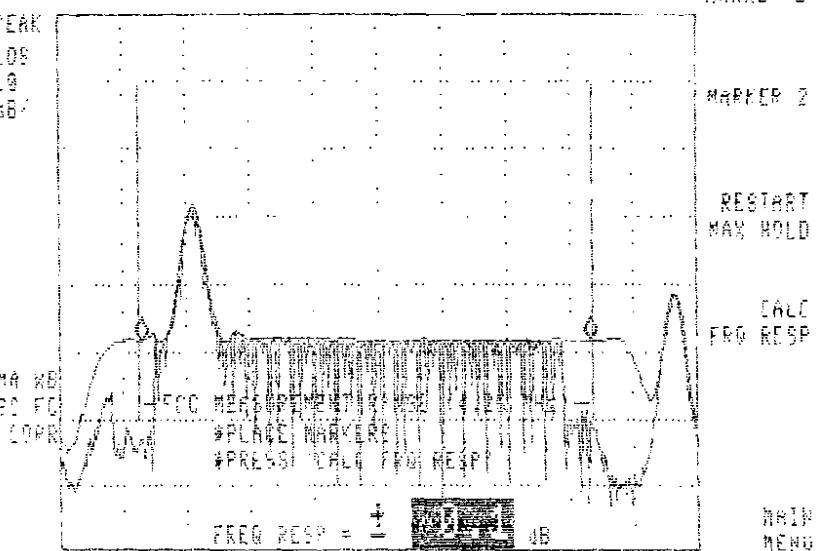
04:45:17 MAR 13, 2007
 CHANNEL 3 (STD)
 REF 41.5 dBmV AT 10 dB
 START 450.000 MHz STOP 455.000 MHz
 RES BW 100 kHz VBW 3 kHz SWP 20.0 mseg



START 450.000 MHz STOP 455.000 MHz
 RES BW 100 kHz VBW 3 kHz SWP 20.0 mseg
 04:45:17 MAR 13, 2007
 CHANNEL 3 (STD) MKR 454.995 MHz
 REF 41.5 dBmV AT 10 dB -5.87 dBmV MARKER 1



START 450.000 MHz STOP 455.000 MHz
 RES BW 100 kHz VBW 3 kHz SWP 20.0 mseg
 04:52:12 MAR 13, 2007
 CHANNEL 3 (STD) MKR 454.995 MHz
 REF 41.5 dBmV AT 10 dB -5.77 dBmV MARKER 1



START 450.000 MHz STOP 455.000 MHz
 RES BW 100 kHz VBW 3 kHz SWP 20.0 mseg

TESTPOINT 9, PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION**VISUAL CARRIER LEVEL VARIATION TEST**

System Name : Binghamton
Date : 02/19/2007
Meter Serial Number : 9343238

Test Location : Walnut St. Town of Fenton
Performed By : John Hriciso

TEMP F							TEMP F						
10.90 30.20 28.40 32.00							10.90 30.20 28.40 32.00						
TIME							TIME						
12:26:00 18:25:00 00:25:00 06:25:00							12:26:00 18:25:00 00:25:00 06:25:00						
CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR	CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR
2	55 2500	14.00	14.30	14.20	14.10	0.3	DD(40)	319 2625	16.10	16.20	15.90	16.00	0.3
3	61 2500	12.80	12.90	13.10	13.00	0.3	EE(41)	325 2625	16.90	17.00	16.90	16.70	0.3
4	67 2500	12.50	12.60	12.70	12.50	0.2	FF(42)	331 2750	17.10	17.00	17.10	16.70	0.4
5	77 2500	12.30	12.30	12.40	12.20	0.2	GG(43)	337 2625	16.90	16.70	16.80	16.60	0.3
6	83 2500	12.50	12.70	13.00	12.70	0.5	HH(44)	343 2625	17.10	17.00	17.00	16.60	0.5
A-5(95)	91 2500						II(45)	349 2625	16.60	16.70	16.60	16.50	0.2
A-4(96)	97 2500						JJ(46)	355 2625	16.80	16.80	16.80	16.60	0.2
A-1(97)	103 2500						KK(47)	361 2625	17.80	18.10	17.90	17.50	0.6
A-2(98)	109 2750						LL(48)	367 2625	18.30	18.30	18.20	18.10	0.2
A-1(99)	115 2750	12.40	12.80	12.90	12.50	0.5	MM(49)	373 2625	17.50	17.60	17.70	17.40	0.3
A(14)	121 2625	12.60	12.80	12.80	12.70	0.2	NN(50)	379 2625	17.90	17.80	18.00	17.70	0.3
B(15)	127 2625	14.10	14.40	14.40	14.30	0.3	OO(51)	385 2625	18.20	18.20	18.00	17.90	0.3
C(16)	133 2625	14.20	14.60	14.60	14.30	0.4	PP(52)	391 2625	17.50	17.50	17.50	17.40	0.1
D(17)	139 2500	14.40	14.60	14.60	14.40	0.2	QQ(53)	397 2625	17.30	17.30	17.40	16.90	0.5
E(18)	145 2500	14.10	14.80	14.70	14.70	0.7	RR(54)	403 2500	16.90	16.70	16.50	16.60	0.4
F(19)	151 3210	14.10	14.40	14.50	14.30	0.4	SS(55)	409 2500	16.50	15.50	16.00	15.70	1
G(20)	157 2500	14.40	14.30	14.60	14.40	0.3	TT(56)	415 2500	16.40	16.90	16.90	16.40	0.5
H(21)	163 2500	15.40	15.60	15.50	15.40	0.2	UU(57)	421 2500	15.70	16.50	16.40	16.00	0.8
I(22)	169 2500	15.40	15.70	15.80	15.30	0.5	VV(58)	427 2500	15.90	16.50	16.20	16.10	0.6
7	175 2500	15.30	15.50	15.30	15.10	0.4	WW(59)	433 2500	15.90	15.40	15.60	15.20	0.7
8	181 2500	14.00	14.30	14.40	14.30	0.4	XX(60)	439 2500	15.60	15.50	15.70	15.40	0.3
9	187 2500	13.80	14.10	14.00	13.50	0.6	YY(61)	445 2500	15.90	15.80	15.60	15.40	0.5
10	193 2500	13.80	14.10	14.10	13.90	0.3	ZZ(62)	451 2500	16.10	16.10	16.20	15.90	0.3
11	199 2500	13.50	13.60	13.70	13.40	0.3	63	457 2500	15.40	15.30	15.40	15.10	0.3
12	205 2500	14.40	14.20	14.50	14.30	0.3	64	463 2500	15.60	16.00	15.80	15.70	0.4
13	211 2500	14.30	14.50	14.40	14.20	0.3	65	469 2500	15.40	15.60	15.70	15.60	0.3
J(23)	217 2500	13.40	14.00	13.60	13.40	0.6	66	475 2500	15.40	15.50	15.50	15.30	0.2
K(24)	223 2500	14.30	12.10	11.80	11.70	2.6	67	481 2500	15.90	16.20	15.90	15.80	0.4
L(25)	229 2625	12.50	13.40	13.40	13.40	0.9	68	487 2500	15.90	16.20	16.10	15.70	0.5
M(26)	235 2625	13.10	13.50	13.80	13.20	0.7	69	493 2500	15.80	16.10	15.80	15.40	0.7
N(27)	241 2625	14.40	14.40	14.30	14.10	0.3	70	499 2500	16.60	16.50	16.50	16.10	0.5
O(28)	247 2625	14.70	14.70	14.80	14.70	0.1	71	505 2500	17.00	17.00	16.90	16.50	0.5
P(29)	253 2625	15.00	14.70	14.70	14.60	0.4	72	511 2500	16.30	16.40	16.30	16.00	0.4
Q(30)	259 2625	14.90	15.10	15.00	14.70	0.4	73	517 2500	17.20	17.20	17.10	16.80	0.4
R(31)	265 2625	15.70	15.80	15.70	15.60	0.2	74	523 2500	16.10	16.20	16.10	15.90	0.3
S(32)	271 2625	15.30	15.50	15.30	15.30	0.2	75	529 2500	16.60	16.50	16.20	16.00	0.6
T(33)	277 2625	15.30	15.60	15.40	15.20	0.4	76	535 2500	16.50	16.40	16.40	16.10	0.4
U(34)	283 2625	14.90	14.90	15.00	15.00	0.1	77	541 2500					
V(35)	289 2625	15.90	15.80	15.70	15.70	0.2	78	547 2500	15.70	15.80	15.90	15.60	0.3
W(36)	295 2625	16.10	16.10	16.20	16.00	0.2	79	553 2500					
AA(37)	301 2625	16.50	16.50	16.40	16.60	0.2	80	559 2500					
BB(38)	307 2625	17.00	17.10	16.60	16.50	0.6	81	565 2500					
CC(39)	313 2625	16.50	16.70	16.50	16.40	0.3							

Max Non Adjacent Channel Level Diff :- 6.4
Max Adjacent Channel Level Diff :- 1.9
Max Variance from last proof of performance test :- 0
Date of last proof of performance test :- N/A

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

TIME WARNER CABLE - SYRACUSE DIVISION

<i>System Name</i>	:	Binghamton
<i>System Test Point #</i>	:	10
<i>Hub Name</i>	:	Greene
<i>Location</i>	:	Rt.12 Greene
<i>Map Number</i>	:	
<i>Pole Number</i>	:	(589/137)(17000/11)
<i>D.T. Value</i>	:	17
<i>OR Number</i>	:	1
<i>GNA Cascade</i>	:	1
<i>LE Cascade</i>	:	1

TIME WARNER CABLE - SYRACUSE DIVISION

**VISUAL CARRIER LEVEL
VISUAL / AURAL LEVEL DIFFERENCE
(at Test Point, at the end of a 100' Drop)**

System Name : Binghamton

Test Location : Rt.12 Greene

Date : 02/22/2007

Time : 10:15:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)
2	55.2500	15.50	2.40		13.1	DD (40)	319.2625	11.00	-2.50		13.5
3	61.2500	15.70	1.40		14.3	EE (41)	325.2625	11.30	-2.40		13.7
4	67.2500	15.40	-0.60		16	FF (42)	331.2750	11.30	-2.40		13.7
5	77.2500	14.60	0.50		14.1	GG (43)	337.2625	11.20	-2.70		13.9
6	83.2500	14.60	0.70		13.9	HH (44)	343.2625	10.60	-2.90		13.5
A-5 (95)	91.2500	N/A	N/A		N/A	II (45)	349.2625	10.20	-3.20		13.4
A-4 (96)	97.2500	N/A	N/A		N/A	JJ (46)	355.2625	10.50	-3.10		13.6
A-3 (97)	103.2500	N/A	N/A		N/A	KK (47)	361.2625	10.80	-2.10		12.9
A-2 (98)	109.2750	N/A	N/A		N/A	LL (48)	367.2625	10.80	-3.00		13.8
A-1 (99)	115.2750	13.10	-1.10		14.2	MM (49)	373.2625	10.10	-3.60		13.7
A (14)	121.2625	12.70	-0.50		13.2	NN (50)	379.2625	10.20	-3.20		13.4
B (15)	127.2625	12.50	-1.00		13.5	OO (51)	385.2625	10.50	-2.30		12.8
C (16)	133.2625	13.10	-0.80		13.9	PP (52)	391.2625	9.90	-3.70		13.6
D (17)	139.2500	13.00	-0.70		13.7	QQ (53)	397.2625	10.50	-3.10		13.6
E (18)	145.2500	12.70	-1.30		14	RR (54)	403.2500	10.50	-3.10		13.6
F (19)	151.3210	12.30	-0.50		12.8	SS (55)	409.2500	10.70	-3.00		13.7
G (20)	157.2500	12.70	-0.60		13.3	TT (56)	415.2500	11.00	-2.70		13.7
H (21)	163.2500	12.90	-1.10		14	UU (57)	421.2500	10.40	-3.10		13.5
I (22)	169.2500	12.90	-0.60		13.5	VV (58)	427.2500	11.00	-2.00		13
7	175.2500	13.10	-0.50		13.6	WW (59)	433.2500	10.40	-2.70		13.1
8	181.2500	12.20	-1.20		13.4	XX (60)	439.2500	10.40	-2.90		13.3
9	187.2500	11.70	-1.50		13.2	YY (61)	445.2500	10.30	-3.50		13.8
10	193.2500	12.80	-0.60		13.4	ZZ (62)	451.2500	10.30	-3.40		13.7
11	199.2500	12.30	-1.20		13.5	63	457.2500	9.70	-3.60		13.3
12	205.2500	11.90	-1.60		13.5	64	463.2500	10.00	-3.30		13.3
13	211.2500	12.30	-1.00		13.3	65	469.2500	10.10	-3.20		13.3
J (23)	217.2500	11.90	-1.60		13.5	66	475.2500	10.30	-2.90		13.2
K (24)	223.2500	12.30	-1.20		13.5	67	481.2500	10.30	-3.40		13.7
L (25)	229.2625	12.40	-0.80		13.2	68	487.2500	10.10	-3.30		13.4
M (26)	235.2625	12.10	-0.90		13	69	493.2500	10.60	-2.40		13
N (27)	241.2625	13.00	-0.60		13.6	70	499.2500	10.60	-2.20		12.8
O (28)	247.2625	12.40	-1.20		13.6	71	505.2500	11.40	-1.50		12.9
P (29)	253.2625	12.20	-0.80		13	72	511.2500	11.90	-1.70		13.6
Q (30)	259.2625	12.30	-1.30		13.6	73	517.2500	12.40	-1.10		13.5
R (31)	265.2625	12.10	-1.30		13.4	74	523.2500	11.90	-1.20		13.1
S (32)	271.2625	11.60	-2.50		14.1	75	529.2500	12.50	-0.60		13.1
T (33)	277.2625	11.90	-2.20		14.1	76	535.2500	12.60	-0.80		13.4
U (34)	283.2625	11.20	-2.30		13.5	77	541.2500	N/A	N/A		N/A
V (35)	289.2625	11.20	-2.40		13.6	78	547.2500	13.00	-1.00		14
W (36)	295.2625	11.50	-2.30		13.8	79	553.2500	N/A	N/A		N/A
AA (37)	301.2625	11.30	-2.60		13.9	80	559.2500	N/A	N/A		N/A
BB (38)	307.2625	11.20	-2.80		14	81	565.2500	N/A	N/A		N/A
CC (39)	313.2625	11.00	-2.10		13.1						

Min Channel : 63 9.700

Max Channel : 3 15.700

Peak to Valley : 6

TIME WARNER CABLE - SYRACUSE DIVISION

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

System Name : Binghamton

Date : 03/12/2007

Performed By : John Hriciso

Location : Rt.12 Greene

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

CHANNEL NUMBER	IN CHANNEL RESPONSE	CARRIER TO NOISE RATIO	DISTORTIONS	CSO	HUM
	(+/- DB)	(DB)	(-DBC) CTB		(%)
4	0.1	46.8	69.3	73.4	0.3
15	0.3	45.3	61.6	66.4	
12	0.2	47.7	60.5	70.6	
27	0.1	45.7	60.0	62.1	
41	0.2	47.8	61.6	70.1	
50	0.3	47.9	62.2	69.6	
62	0.0	46.0	61.8	70.3	
67	0.3	46.2	63.2	69.4	
76	0.2	46.7	67.8	67.6	

TIME WARNER CABLE - SYRACUSE DIVISION

***IN CHANNEL FREQUENCY RESPONSE TEST
(76.605) (a) (6)***

System Name : Binghamton

Date : 03/12/2007

Performed By : John Hriciso

Location : Rt.12 Greene

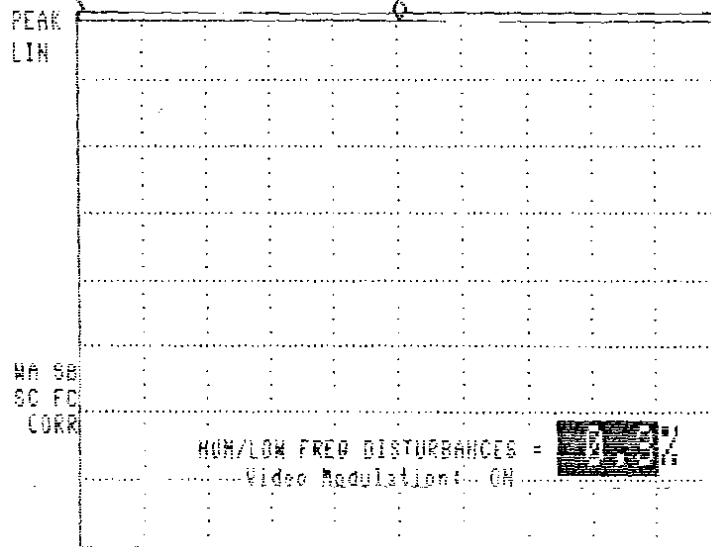
(SEE THE ATTACHED SWEEP TRACES)

解題

REF 74.21 EV AT 10 08

.997 %

PEAR
LIN



30 70
 CORR

HIGH/LOW FREQ DISTURBANCES =

Video Modulation: ON

MORE
INFO

MAIN RESULTS

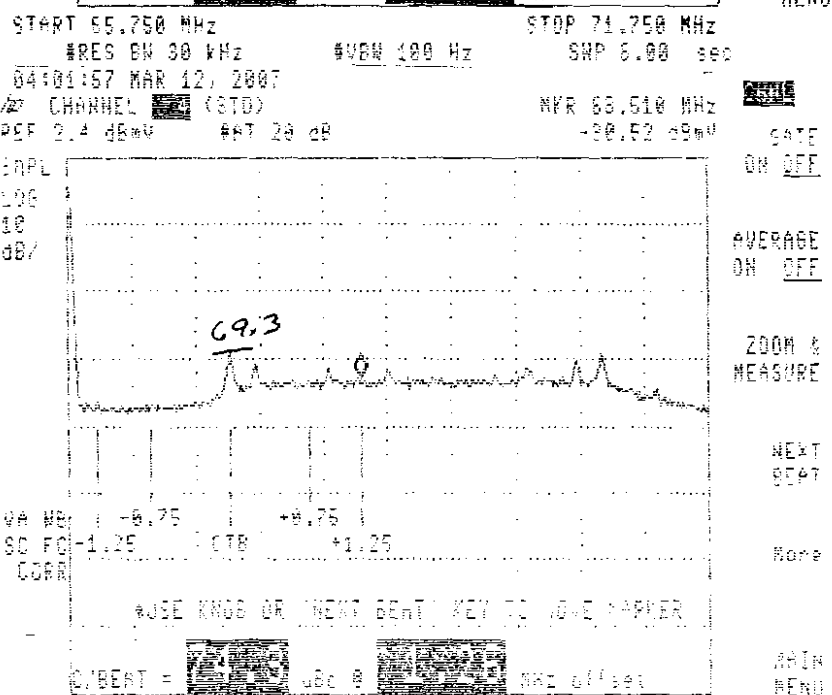
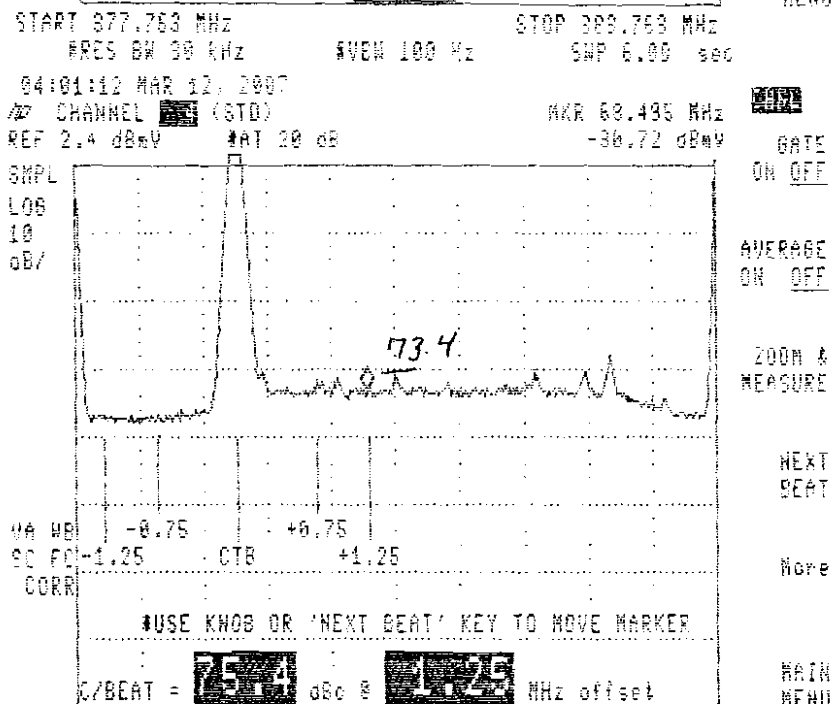
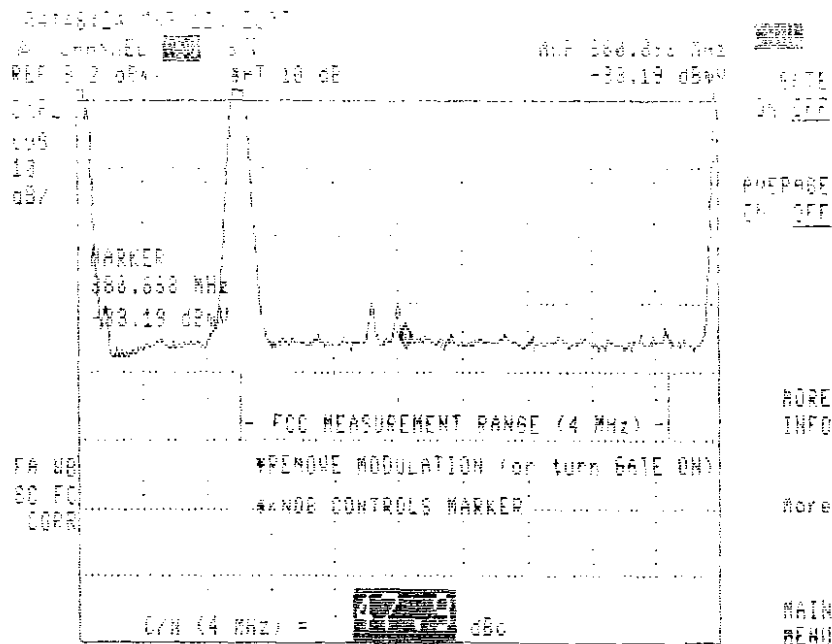
START 67.250 MHz

FRES BR 1.4 MHz

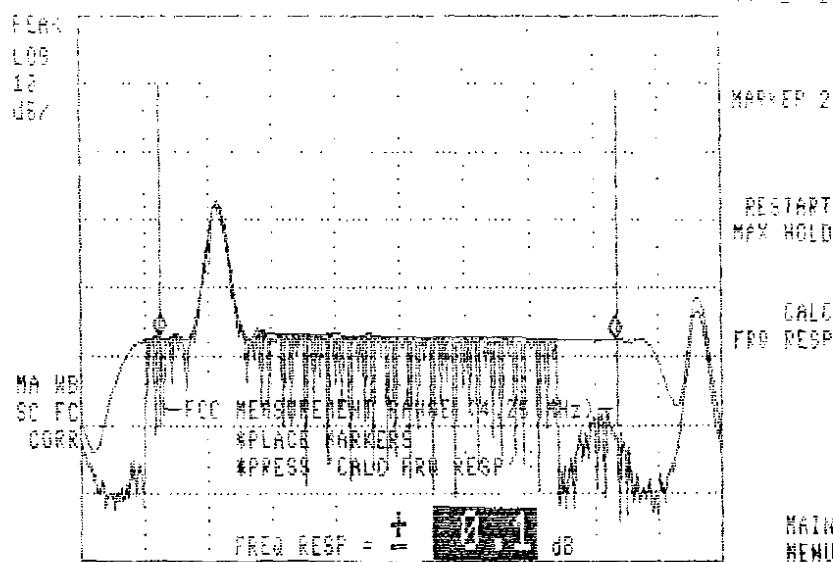
8528 1 1142

STOP 67.250 MHz

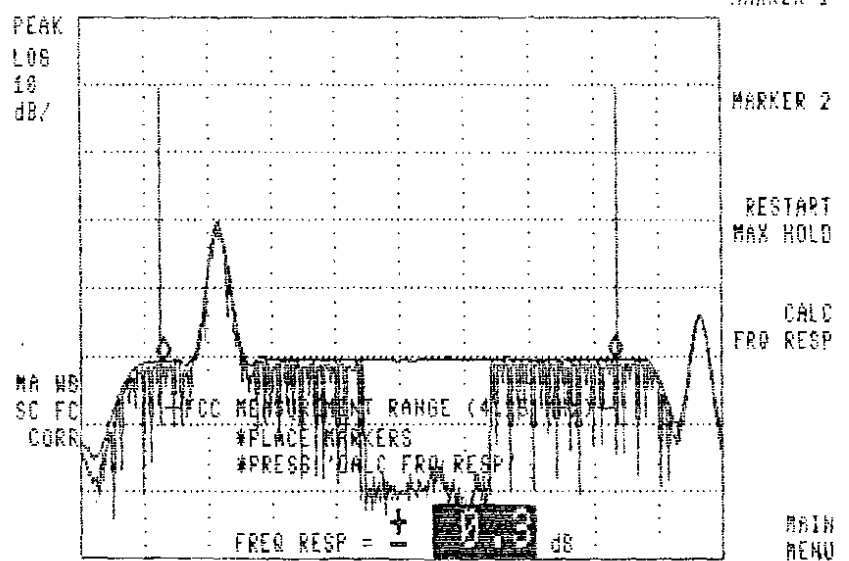
SECRET



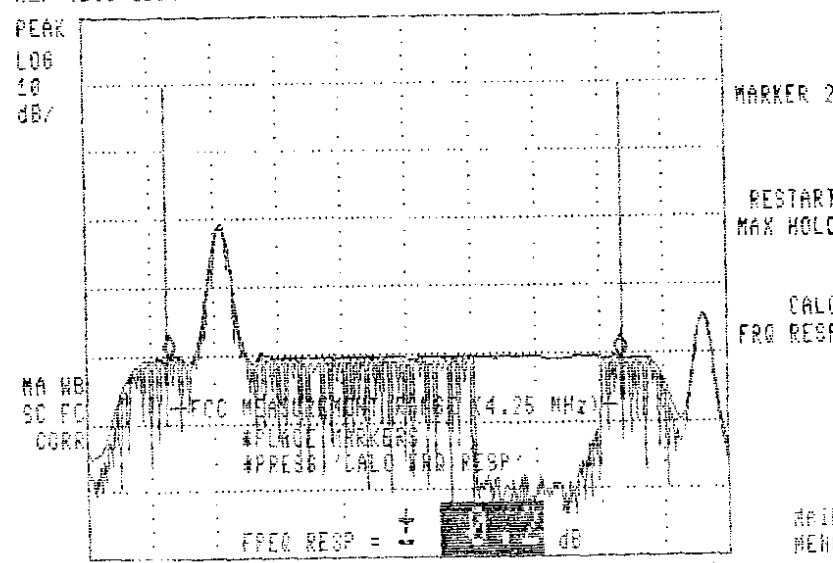
07:11:41 MAR 12, 2007
 CHAN 03 (STD) MKR 70.995 KHz
 REF 41.5 dBmV AT 10 dB -6.25 dBmV/marker 1



START 66.000 MHz STOP 72.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec
 04:11:41 MAR 12, 2007
 CHAN 03 (STD) MKR 130.995 KHz
 REF 41.5 dBmV AT 10 dB -8.98 dBmV/marker 1



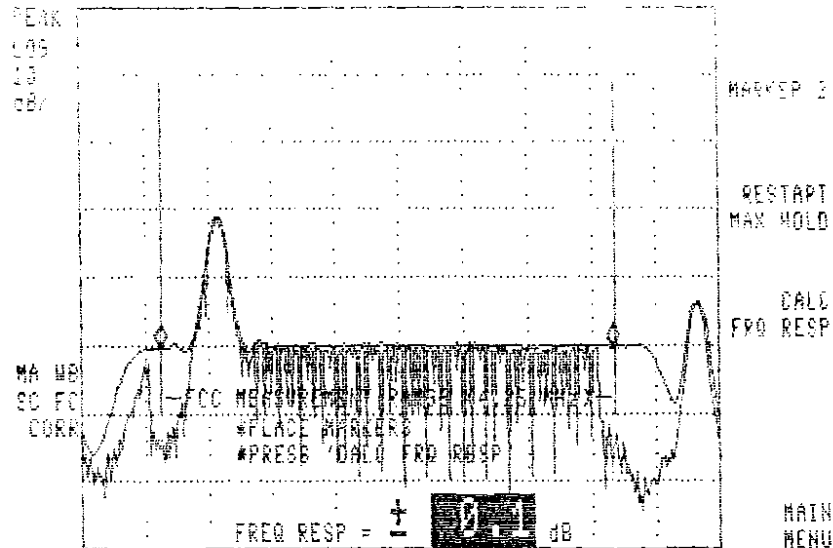
START 126.000 MHz STOP 132.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec
 04:13:12 MAR 12, 2007
 CHAN 03 (STD) MKR 200.995 KHz
 REF 41.5 dBmV AT 10 dB -9.16 dBmV/marker 1



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

04:40:52 MAR 12, 2007
 CHANNEL 32 (STD)
 REF 41.5 dBmV AT 10 dB

NKR 244.995 MHz
 -9.73 dBmV MARKER 1

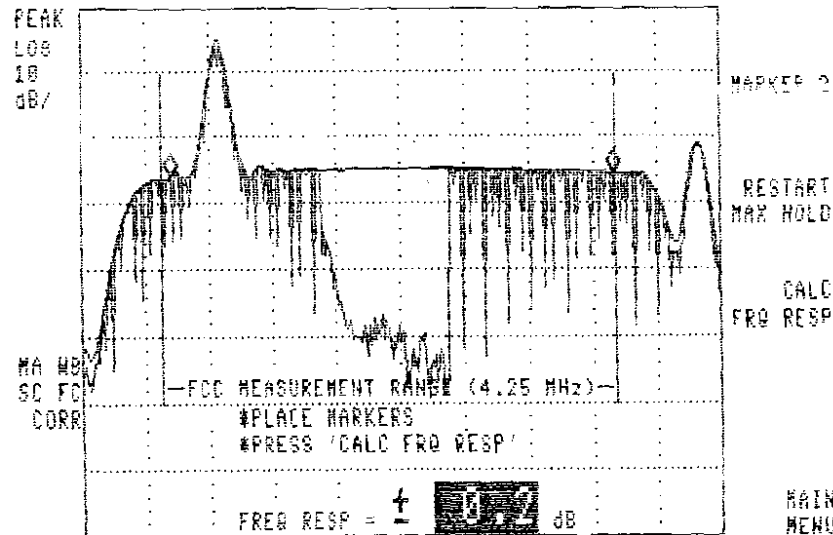


START 240.000 MHz STOP 246.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

04:40:52 MAR 12, 2007

CHANNEL 32 (STD)
 REF 41.5 dBmV AT 10 dB

NKR 324.840 MHz
 15.67 dBmV MARKER 1

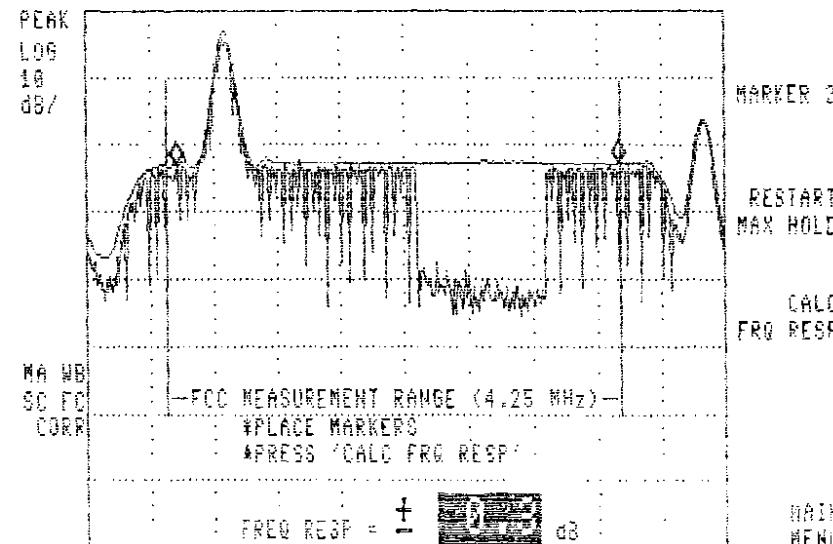


START 324.000 MHz STOP 330.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

04:52:06 MAR 12, 2007

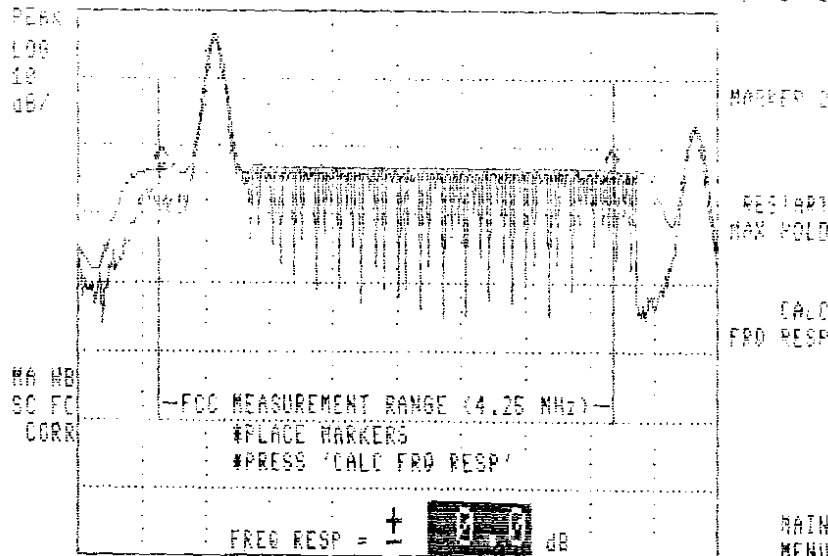
CHANNEL 30 (STD)
 REF 12.7 dBmV AT 10 dB

NKR 382.595 MHz
 -9.97 dBmV MARKER 1

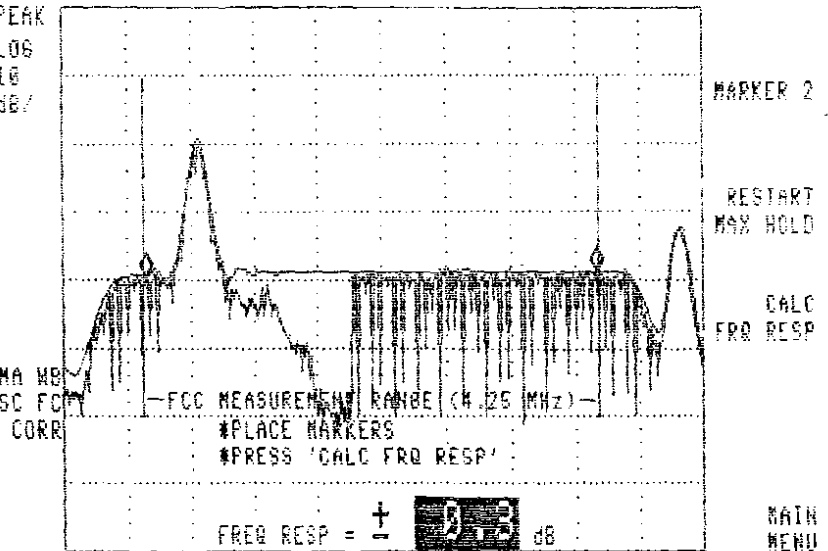


START 378.000 MHz STOP 384.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

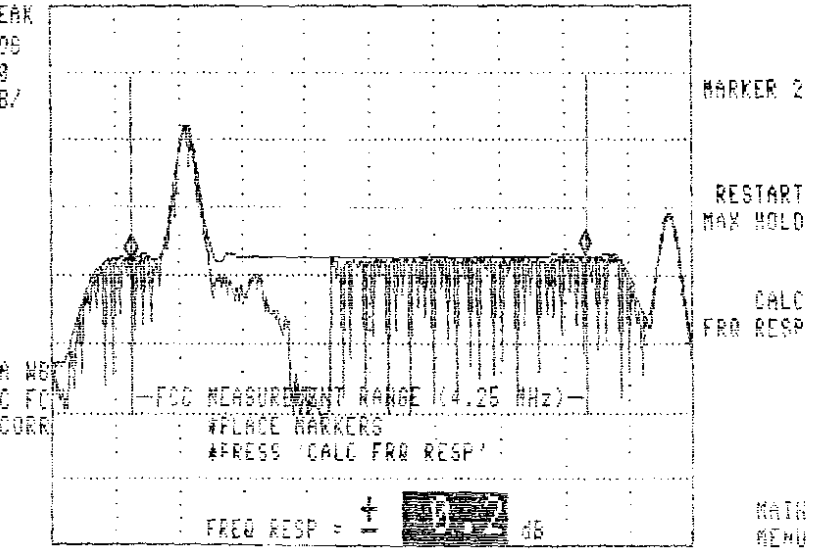
05:15:51 MAR 12, 2007
 Z1 CHANNEL (STD)
 REF 12.7 dBmV AT 10 dB
 MKR 454.935 MHz
 -10.75 dBmV/MARKER 1



START 450.000 MHz STOP 456.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec
 05:15:51 MAR 12, 2007
 Z1 CHANNEL (STD) MKR 454.935 MHz
 REF 12.7 dBmV AT 10 dB -10.75 dBmV/MARKER 1



START 480.000 MHz STOP 486.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec
 05:22:51 MAR 12, 2007
 Z1 CHANNEL (STD) MKR 538.995 MHz
 REF 28.6 dBmV AT 10 dB -8.22 dBmV/MARKER 1



START 534.000 MHz STOP 542.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.2 msec

TESTPOINT 10, PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION**VISUAL CARRIER LEVEL VARIATION TEST**

System Name : Binghamton
Date : 02/22/2007
Meter Serial Number : 6033315

Test Location : Rt.12 Greene
Performed By : John Hriciso

		TEMP F						TEMP F					
		30.00	28.40	26.60	21.20			30.00	28.40	26.60	21.20		
		TIME						TIME					
		10:15:00	16:14:00	22:14:00	04:14:00			10:15:00	16:14:00	22:14:00	04:14:00		
CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR	CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR
2	55.2500	15.50	15.00	15.20	14.70	0.8	DD(40)	319.2625	11.00	10.00	10.10	10.50	1
3	61.2500	15.70	14.90	15.10	14.80	0.9	EE(41)	325.2625	11.30	10.80	10.40	11.00	0.9
4	67.2500	15.40	15.30	15.60	15.10	0.4	FF(42)	331.2750	11.30	10.50	10.50	10.80	0.8
5	77.2500	14.60	13.90	13.90	14.20	0.7	GG(43)	337.2625	11.20	10.80	10.40	11.00	0.8
6	83.2500	14.60	14.10	14.10	14.40	0.5	HH(44)	343.2625	10.60	10.10	10.00	10.30	0.6
A-5(95)	91.2500						II(45)	349.2625	10.20	9.60	9.70	9.80	0.6
A-4(96)	97.2500						JJ(46)	355.2625	10.50	9.70	9.90	10.00	0.8
A-3(97)	103.2500						KK(47)	361.2625	10.80	10.40	10.20	10.40	0.6
A-2(98)	109.2750						LL(48)	367.2625	10.80	10.20	10.50	10.60	0.6
A-1(99)	115.2750	13.10	12.60	13.00	13.00	0.5	MM(49)	373.2625	10.10	9.80	9.80	10.40	0.6
A(14)	121.2625	12.70	12.60	12.60	13.30	0.7	NN(50)	379.2625	10.20	9.60	9.70	9.40	0.8
B(15)	127.2625	12.50	11.80	11.90	12.60	0.8	OO(51)	385.2625	10.50	9.70	9.90	9.90	0.8
C(16)	133.2625	13.10	12.00	12.20	12.30	1.1	PP(52)	391.2625	9.90	9.40	9.40	9.10	0.8
D(17)	139.2500	13.00	12.50	12.60	12.80	0.5	QQ(53)	397.2625	10.50	9.90	9.70	9.80	0.8
E(18)	145.2500	12.70	12.60	12.40	12.60	0.3	RR(54)	403.2500	10.50	9.90	9.80	10.10	0.7
F(19)	151.3210	12.30	11.90	12.00	12.20	0.4	SS(55)	409.2500	10.70	10.00	10.10	10.40	0.7
G(20)	157.2500	12.70	12.40	12.20	12.90	0.7	TT(56)	415.2500	11.00	10.20	10.10	10.40	0.9
H(21)	163.2500	12.90	12.50	12.40	13.10	0.7	UU(57)	421.2500	10.40	9.80	9.60	9.70	0.8
I(22)	169.2500	12.90	12.50	12.70	13.40	0.9	VV(58)	427.2500	11.00	10.60	10.30	10.60	0.7
7	175.2500	13.10	12.80	12.90	13.30	0.5	WW(59)	433.2500	10.40	10.20	10.20	10.40	0.2
8	181.2500	12.20	12.10	12.20	12.50	0.4	XX(60)	439.2500	10.40	9.70	9.70	9.70	0.7
9	187.2500	11.70	11.70	11.70	12.10	0.4	YY(61)	445.2500	10.30	9.80	9.70	9.80	0.6
10	193.2500	12.80	12.00	12.20	12.80	0.8	ZZ(62)	451.2500	10.30	9.70	9.60	9.60	0.7
11	199.2500	12.30	11.80	11.80	12.20	0.5	63	457.2500	9.70	9.20	9.20	9.30	0.5
12	205.2500	11.90	11.80	11.30	11.70	0.6	64	463.2500	10.00	9.40	9.30	9.60	0.7
13	211.2500	12.30	11.80	11.90	12.40	0.6	65	469.2500	10.10	9.60	9.30	9.80	0.8
J(23)	217.2500	11.90	11.60	11.60	12.30	0.7	66	475.2500	10.30	9.60	9.70	9.90	0.7
K(24)	223.2500	12.30	11.80	12.00	11.90	0.5	67	481.2500	10.30	9.30	9.60	9.60	1
L(25)	229.2625	12.40	11.90	11.90	12.20	0.5	68	487.2500	10.10	9.70	10.00	10.20	0.5
M(26)	235.2625	12.10	11.70	11.50	12.30	0.8	69	493.2500	10.60	10.20	9.90	10.00	0.7
N(27)	241.2625	13.00	12.50	12.50	12.90	0.5	70	499.2500	10.60	10.30	10.10	10.40	0.5
O(28)	247.2625	12.40	11.50	11.80	12.50	1	71	505.2500	11.40	10.50	10.80	10.80	0.9
P(29)	253.2625	12.20	11.90	12.00	12.10	0.3	72	511.2500	11.90	11.30	11.40	11.30	0.6
Q(30)	259.2625	12.30	12.00	11.70	11.80	0.6	73	517.2500	12.40	11.70	11.60	11.70	0.8
R(31)	265.2625	12.10	11.40	11.40	11.50	0.7	74	523.2500	11.90	11.50	11.60	11.80	0.4
S(32)	271.2625	11.60	10.90	10.60	11.20	1	75	529.2500	12.50	12.00	11.70	11.80	0.8
T(33)	277.2625	11.90	11.30	10.80	11.50	1.1	76	535.2500	12.60	12.10	12.00	12.10	0.6
U(34)	283.2625	11.20	10.60	10.40	10.80	0.8	77	541.2500					
V(35)	289.2625	11.20	10.80	10.50	10.80	0.7	78	547.2500	13.00	12.70	12.60	12.90	0.4
W(36)	295.2625	11.50	10.80	10.60	11.20	0.9	79	553.2500					
AA(37)	301.2625	11.30	10.50	10.50	10.80	0.8	80	559.2500					
BB(38)	307.2625	11.20	10.60	10.50	11.00	0.7	81	565.2500					
CC(39)	313.2625	11.00	10.50	10.60	10.80	0.5							

Max Non Adjacent Channel Level Diff :- 6.1
 Max Adjacent Channel Level Diff :- 1.4
 Max Variance from last proof of performance test :- 0
 Date of last proof of performance test :- N/A

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

TIME WARNER CABLE - SYRACUSE DIVISION

<i>System Name</i>	:	Binghamton
<i>System Test Point #</i>	:	11
<i>Hub Name</i>	:	Montrose
<i>Location</i>	:	Grow & Lathrop Montrose PA
<i>Map Number</i>	:	
<i>Pole Number</i>	:	(2M6PN/AB35)
<i>D.T. Value</i>	:	17
<i>OR Number</i>	:	0
<i>GNA Cascade</i>	:	4
<i>LE Cascade</i>	:	0

TIME WARNER CABLE - SYRACUSE DIVISION

**VISUAL CARRIER LEVEL
VISUAL / AURAL LEVEL DIFFERENCE
(at Test Point, at the end of a 100' Drop)**

System Name : Binghamton **Test Location** : Grow & Lathrop Montrose PA
Date : 02/19/2007 **Time** : 11:05:00

CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)	CHANNEL	FREQ (MHZ)	VISUAL LEVEL(DBMV)	AURAL LEVEL(DBMV)	SC "S"	DIFF (DBMV)
2	55.2500	11.70	-1.30		13	DD (40)	319.2625	13.60	-1.40		15
3	61.2500	11.70	-1.70		13.4	EE (41)	325.2625	13.50	-2.20		15.7
4	67.2500	11.80	-2.80		14.6	FF (42)	331.2750	12.30	-2.00		14.3
5	77.2500	11.80	-2.60		14.4	GG (43)	337.2625	12.90	-1.50		14.4
6	83.2500	12.10	-2.40		14.5	HH (44)	343.2625	12.90	-1.00		13.9
A-5 (95)	91.2500	N/A	N/A		N/A	II (45)	349.2625	13.90	-0.40		14.3
A-4 (96)	97.2500	N/A	N/A		N/A	JJ (46)	355.2625	14.60	-0.20		14.8
A-3 (97)	103.2500	N/A	N/A		N/A	KK (47)	361.2625	14.50	0.60		13.9
A-2 (98)	109.2750	11.80	-3.00		14.8	LL (48)	367.2625	14.50	0.30		14.2
A-1 (99)	115.2750	12.00	-3.20		15.2	MM (49)	373.2625	15.40	0.60		14.8
A (14)	121.2625	12.50	-2.50		15	NN (50)	379.2625	14.70	-0.70		15.4
B (15)	127.2625	11.90	-2.60		14.5	OO (51)	385.2625	13.30	-0.50		13.8
C (16)	133.2625	11.30	-3.10		14.4	PP (52)	391.2625	13.10	-2.00		15.1
D (17)	139.2500	11.60	-2.70		14.3	QQ (53)	397.2625	12.90	-1.30		14.2
E (18)	145.2500	12.30	-2.70		15	RR (54)	403.2500	14.10	0		14.1
F (19)	151.3210	11.90	-2.50		14.4	SS (55)	409.2500	14.60	0.60		14
G (20)	157.2500	12.60	-2.40		15	TT (56)	415.2500	15.30	1.10		14.2
H (21)	163.2500	12.10	-2.50		14.6	UU (57)	421.2500	15.10	0.20		14.9
I (22)	169.2500	11.50	-3.80		15.3	VV (58)	427.2500	15.10	1.00		14.1
7	175.2500	12.90	0.90		12	WW (59)	433.2500	14.70	-0.70		15.4
8	181.2500	13.40	7.10		20.5	XX (60)	439.2500	13.30	-0.60		13.9
9	187.2500	13.20	-2.80		16	YY (61)	445.2500	13.70	-1.40		15.1
10	193.2500	12.20	-1.40		13.6	ZZ (62)	451.2500	13.70	-0.50		14.2
11	199.2500	12.70	-1.70		14.4	63	457.2500	14.00	-0.60		14.6
12	205.2500	11.80	-3.20		15	64	463.2500	14.00	-0.80		14.8
13	211.2500	10.80	-5.20		16	65	469.2500	13.80	-1.10		14.9
J (23)	217.2500	8.90	-4.20		13.1	66	475.2500	13.70	-0.40		14.1
K (24)	223.2500	10.80	-4.30		15.1	67	481.2500	13.40	-0.90		14.3
L (25)	229.2625	11.00	-3.20		14.2	68	487.2500	14.00	-0.70		14.7
M (26)	235.2625	10.80	-2.30		13.1	69	493.2500	13.90	-0.70		14.6
N (27)	241.2625	12.30	-2.70		15	70	499.2500	13.80	-0.80		14.6
O (28)	247.2625	11.80	-3.40		15.2	71	505.2500	14.00	-0.60		14.6
P (29)	253.2625	11.20	-3.30		14.5	72	511.2500	14.30	-1.50		15.8
Q (30)	259.2625	11.30	-3.30		14.6	73	517.2500	13.30	-1.00		14.3
R (31)	265.2625	10.70	-2.10		12.8	74	523.2500	12.60	-2.20		14.8
S (32)	271.2625	11.40	-3.60		15	75	529.2500	12.70	-1.30		14
T (33)	277.2625	11.10	-4.40		15.5	76	535.2500	13.20	-0.80		14
U (34)	283.2625	9.20	-3.80		13	77	541.2500	N/A	N/A		N/A
V (35)	289.2625	11.50	-1.20		12.7	78	547.2500	15.80	0.80		15
W (36)	295.2625	13.10	-1.70		14.8	79	553.2500	N/A	N/A		N/A
AA (37)	301.2625	13.10	-2.50		15.6	80	559.2500	N/A	N/A		N/A
BB (38)	307.2625	12.60	-2.30		14.9	81	565.2500	N/A	N/A		N/A
CC (39)	313.2625	12.90	-1.10		14						

Min Channel	:	J(23)	8.900
Max Channel	:	78	15.800
Peak to Valley	:	6.9	

TIME WARNER CABLE - SYRACUSE DIVISION

**IN CHANNEL RESPONSE TEST
CARRIER - TO - NOISE TEST
COHERENT DISTURBANCES TEST
LOW FREQUENCY DISTURBANCES TEST**

System Name : Binghamton

Date : 03/12/2007

Performed By : John Hriciso

Location : Grow & Lathrop Montrose PA

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

[illegible]

TIME WARNER CABLE - SYRACUSE DIVISION

***IN CHANNEL FREQUENCY RESPONSE TEST
(76.605) (a) (6)***

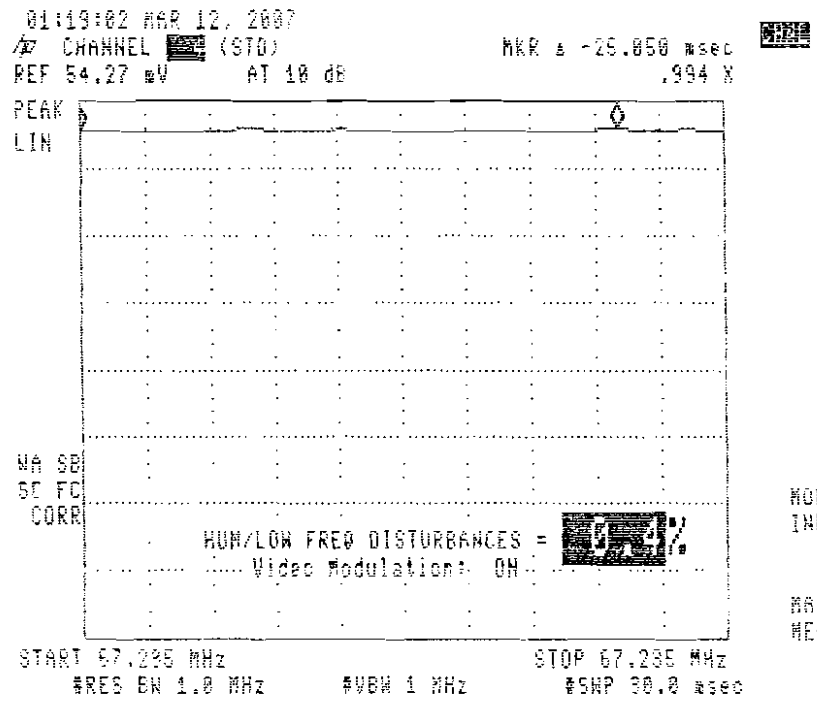
System Name : Binghamton

Date : 03/12/2007

Performed By : John Hriciso

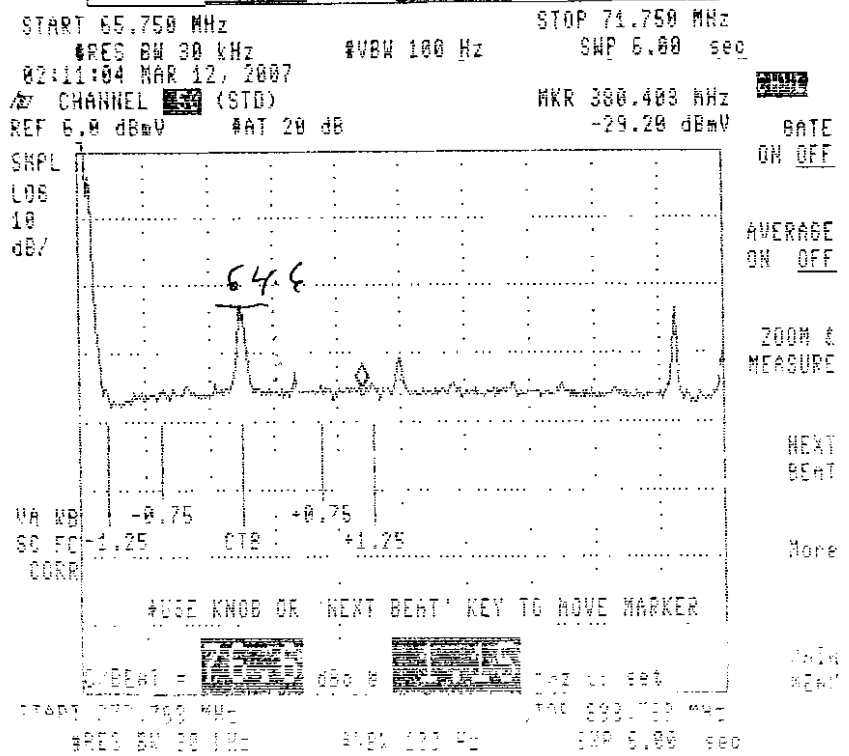
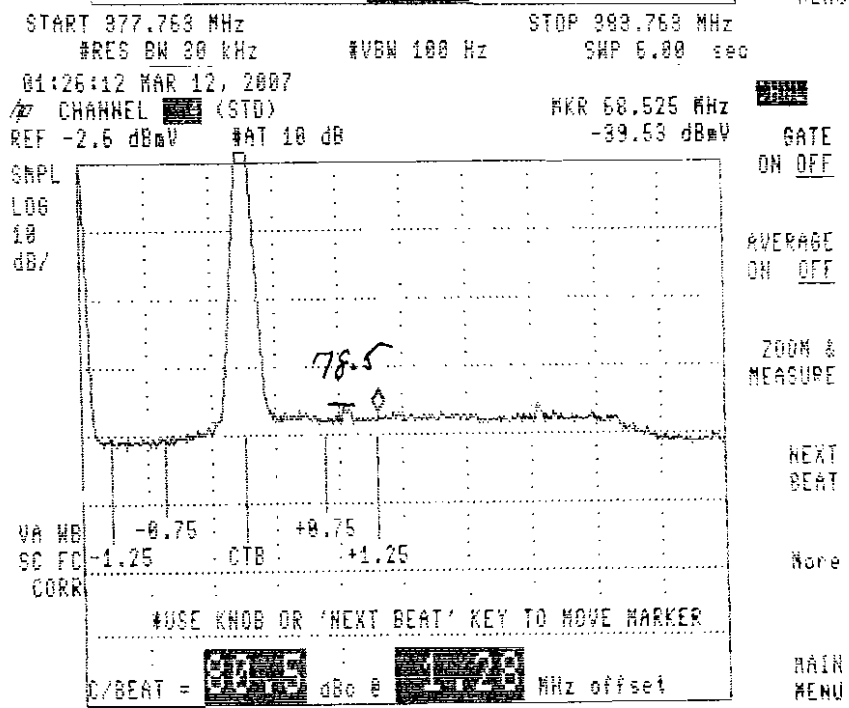
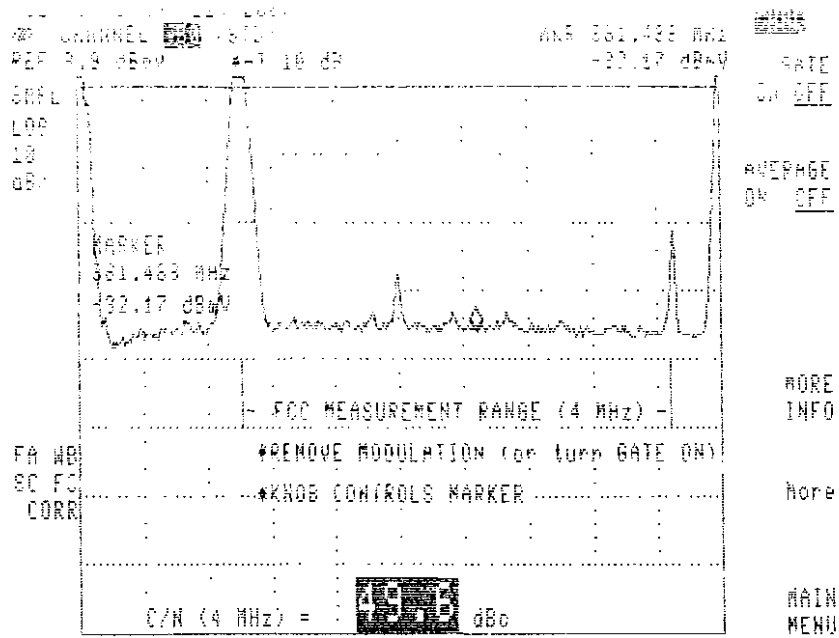
Location : Grow & Lathrop Montrose PA

(SEE THE ATTACHED SWEEP TRACES)



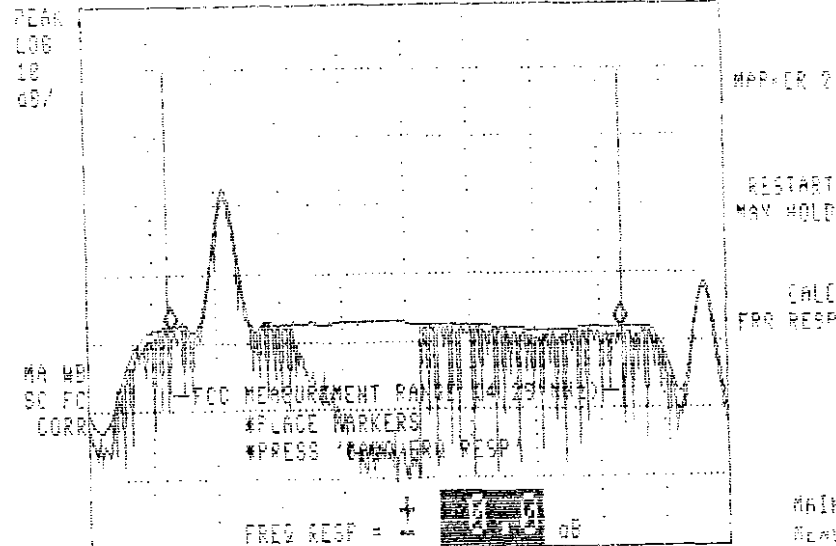
MORE
INFO

MAIN
MENU

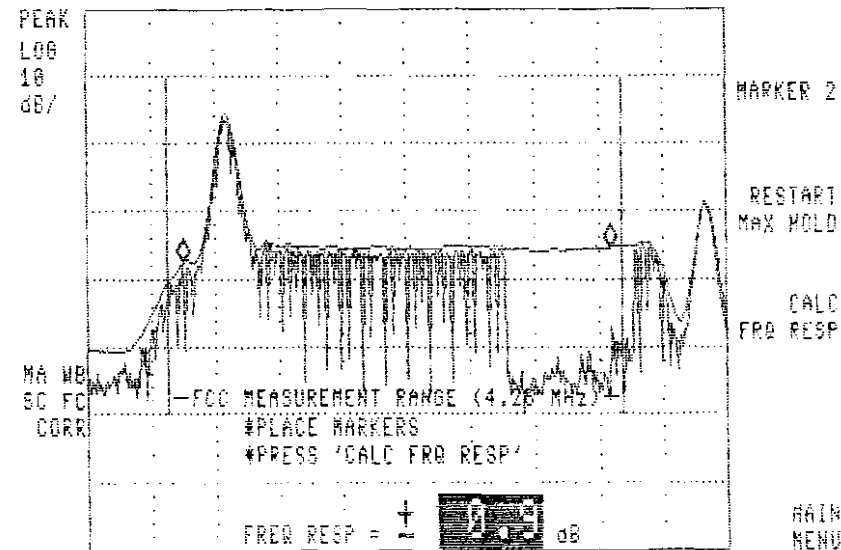


01:24:53 MAR 12, 2007
 CHANNEL 5 (STD)
 REF 37.8 dBmV AT 10 dB

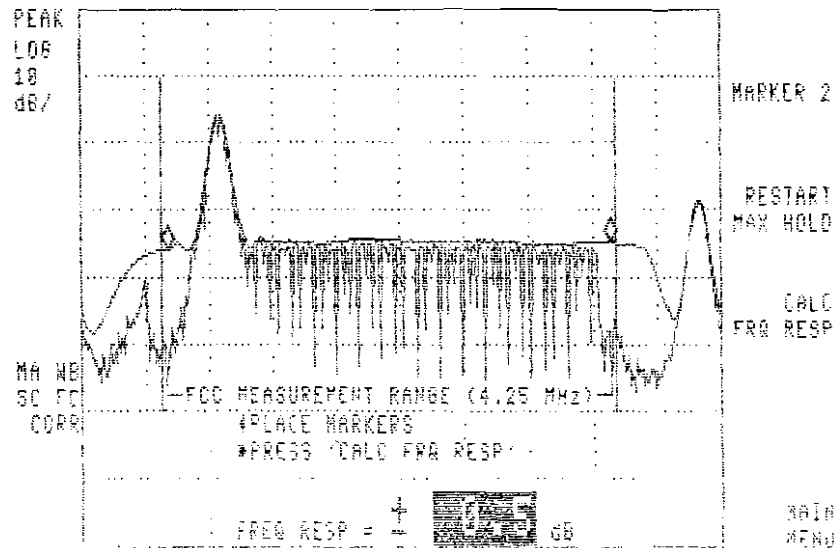
MARKER 1
 MKR 70.995 MHz
 -10.20 dBmV



START 66.000 MHz STOP 70.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec
 01:49:34 MAR 12, 2007
 CHANNEL 5 (STD) MKR 108.900 MHz
 REF 24.2 dBmV AT 10 dB -10.36 dBmV



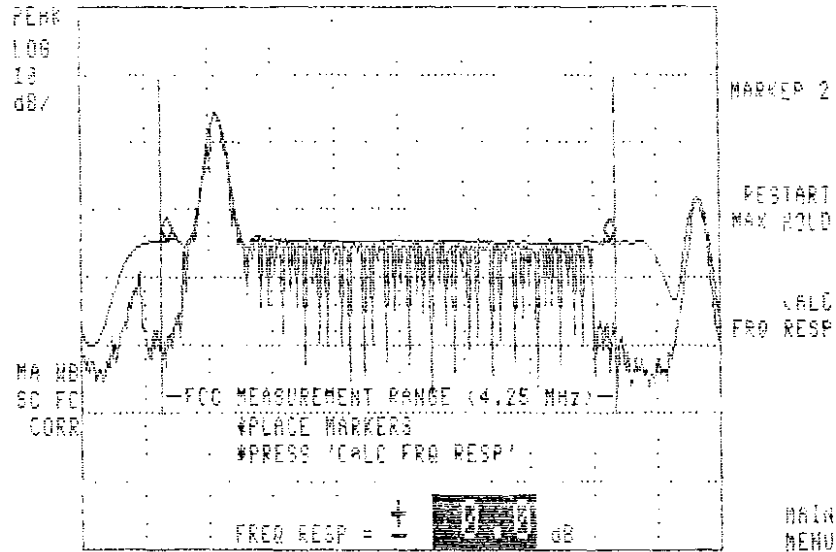
START 100.000 MHz STOP 114.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec
 01:58:06 MAR 12, 2007
 CHANNEL 5 (STD) MKR 130.965 MHz
 REF 24.2 dBmV AT 10 dB -10.72 dBmV



START 120.000 MHz STOP 132.000 MHz
 RES BW 100 kHz VBW 3 MHz SWP 20.0 msec

01:53:01 MAR 12, 2007
CH2 CHANNEL 50 (STD)
REF 24.2 dBmV AT 10 dB

MKR 244.385 MHz
-10.79 dBmV MARKER 1

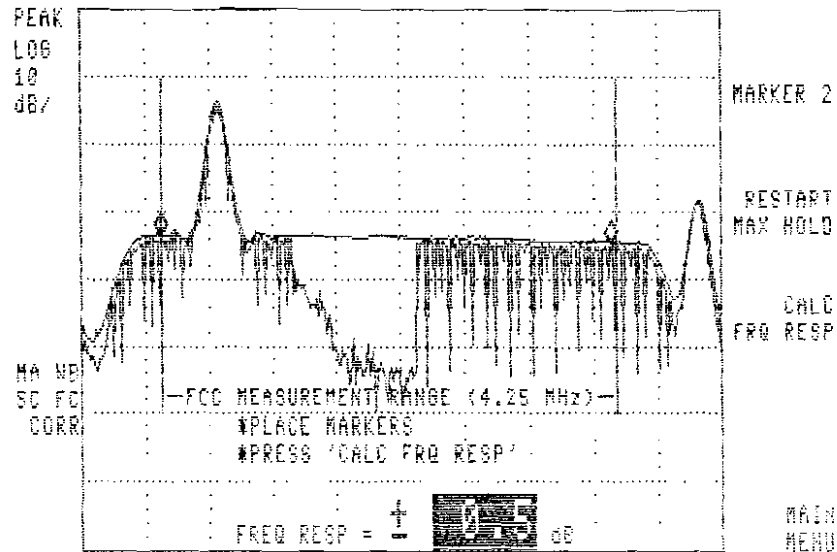


START 240.000 MHz STOP 240.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

02:05:20 MAR 12, 2007

CH2 CHANNEL 50 (STD)
REF 24.2 dBmV AT 10 dB

MKR 320.965 MHz
-10.42 dBmV MARKER 1

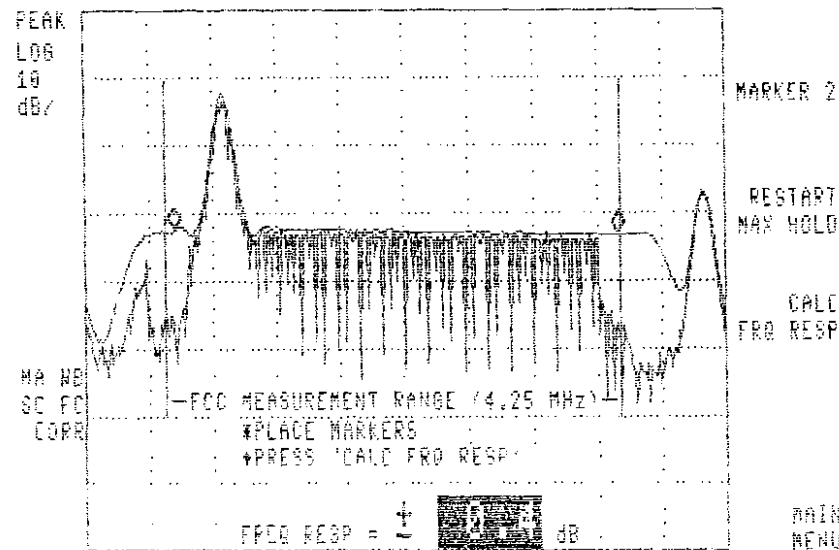


START 324.000 MHz STOP 320.000 MHz
#RES BW 100 kHz #VBW 3 MHz SWP 20.0 msec

02:12:14 MAR 12, 2007

CH2 CHANNEL 50 (STD)
REF 24.2 dBmV AT 10 dB

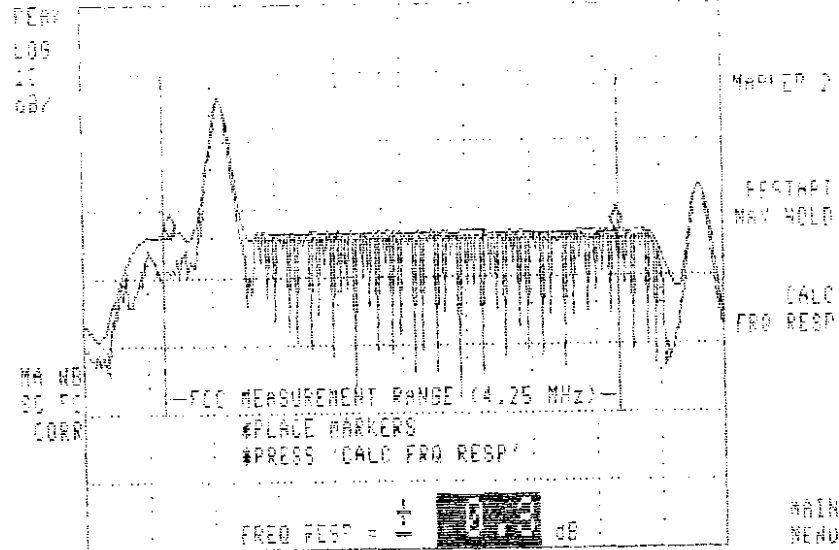
MKR 382.995 MHz
-8.84 dBmV MARKER 1



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

02:12:50 MAR 12, 2007
 CHANNEL 57 (STD)
 REF 24.2 dBmV AT 10 dB

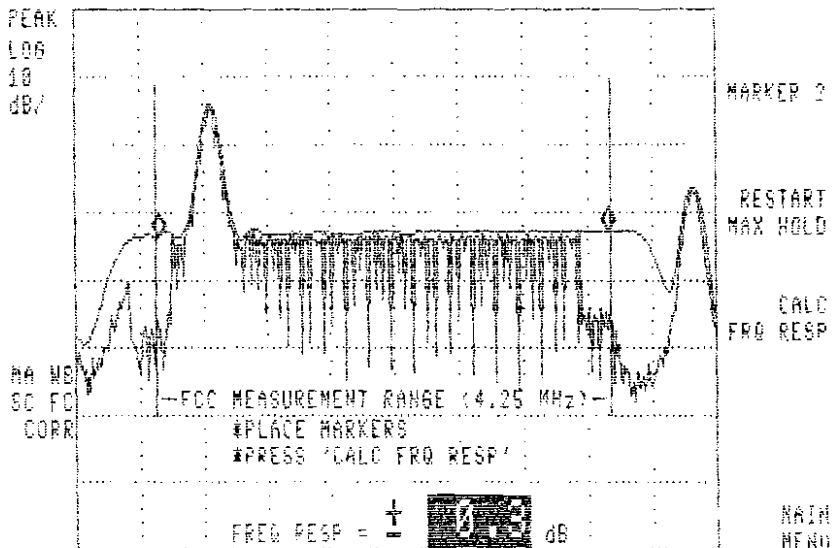
MARK 484.535 MHz
 -9.76 dBmV MARKER 1



START 480.000 MHz STOP 486.000 MHz
 RES BW 100 kHz VBW 3 MHz SFP 20.0 nsec

02:27:28 MAR 12, 2007
 CHANNEL 57 (STD)
 REF 24.2 dBmV AT 10 dB

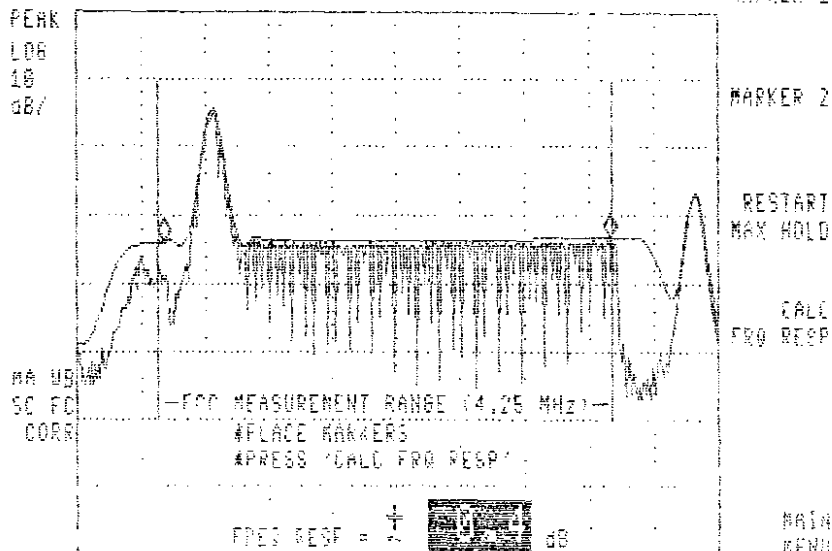
MARK 484.535 MHz
 -8.66 dBmV MARKER 1



START 480.000 MHz STOP 486.000 MHz
 RES BW 100 kHz VBW 3 MHz SFP 20.0 nsec

02:35:26 MAR 12, 2007
 CHANNEL 57 (STD)
 REF 24.2 dBmV AT 10 dB

MARK 534.310 MHz
 -9.76 dBmV MARKER 1



START 530.000 MHz STOP 538.000 MHz

TESTPOINT 11, PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION**VISUAL CARRIER LEVEL VARIATION TEST**

System Name : Binghamton
Date : 02/19/2007
Meter Serial Number : 9343239

Test Location : Grow & Lathrop Montrose PA
Performed By : John Hricso

TEMP F							TEMP F						
50.00 30.20 24.80 28.40							50.00 30.20 24.80 28.40						
TIME							TIME						
11:05:00 17:05:00 23:05:00 05:05:00							11:05:00 17:05:00 23:05:00 05:05:00						
CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR	CHAN	FREQ (MHZ)	VISUAL LEVEL (DBMV)				MAX VAR
2	55.2500	11.70	11.50	11.90	11.30	0.6	DD(40)	319.2625	13.60	13.10	12.30	12.70	1.3
3	61.2500	11.70	12.00	12.60	11.90	0.9	EE(41)	325.2625	13.50	13.00	12.80	13.80	1
4	67.2500	11.80	12.40	12.30	12.00	0.6	FF(42)	331.2750	12.30	12.10	12.00	12.30	0.3
5	77.2500	11.80	12.00	11.90	12.00	0.2	GG(43)	337.2625	12.90	13.10	12.60	12.80	0.5
6	83.2500	12.10	12.00	12.50	12.10	0.5	HH(44)	343.2625	12.90	12.70	12.50	13.10	0.6
A-5(95)	91.2500						II(45)	349.2625	13.90	13.70	13.50	13.70	0.4
A-4(96)	97.2500						JJ(46)	355.2625	14.60	14.20	14.10	14.00	0.6
A-3(97)	103.2500						KK(47)	361.2625	14.50	14.20	14.20	14.30	0.3
A-2(98)	109.2750	11.80	11.40	12.20	11.30	0.9	LL(48)	367.2625	14.50	14.30	14.30	14.40	0.2
A-1(99)	115.2750	12.00	12.00	12.60	13.00	1	MM(49)	373.2625	15.40	15.10	14.70	14.90	0.7
A(14)	121.2625	12.50	12.40	12.40	13.10	0.7	NN(50)	379.2625	14.70	14.40	14.70	14.40	0.3
B(15)	127.2625	11.90	12.90	12.60	12.90	1	OO(51)	385.2625	13.30	13.20	13.30	13.20	0.1
C(16)	133.2625	11.30	11.40	11.80	11.50	0.5	PP(52)	391.2625	13.10	13.80	12.90	13.30	0.9
D(17)	139.2500	11.60	11.90	12.00	12.90	1.3	QQ(53)	397.2625	12.90	13.10	12.20	12.70	0.9
E(18)	145.2500	12.30	12.10	13.30	13.60	1.5	RR(54)	403.2500	14.10	13.90	13.80	13.80	0.3
F(19)	151.3210	11.90	12.50	12.70	12.60	0.8	SS(55)	409.2500	14.60	14.40	14.40	14.80	0.4
G(20)	157.2500	12.60	15.20	12.90	13.10	2.6	TT(56)	415.2500	15.30	14.90	14.60	14.80	0.7
H(21)	163.2500	12.10	12.70	12.10	12.60	0.6	UU(57)	421.2500	15.10	15.00	15.30	15.20	0.3
I(22)	169.2500	11.50	11.00	11.90	11.30	0.9	VV(58)	427.2500	15.10	15.60	14.60	14.90	1
7	175.2500	12.90	12.90	12.90	13.20	0.3	WW(59)	433.2500	14.70	14.50	14.60	14.40	0.3
8	181.2500	13.40	13.70	13.40	13.60	0.3	XX(60)	439.2500	13.30	13.40	13.20	13.30	0.2
9	187.2500	13.20	13.60	13.50	12.70	0.9	YY(61)	445.2500	13.70	13.90	13.30	13.50	0.6
10	193.2500	12.20	11.60	11.30	12.10	0.9	ZZ(62)	451.2500	13.70	13.60	13.00	13.80	0.8
11	199.2500	12.70	12.60	12.20	12.10	0.6	63	457.2500	14.00	14.00	13.70	14.50	0.8
12	205.2500	11.80	11.10	11.20	11.50	0.7	64	463.2500	14.00	14.20	13.60	13.80	0.6
13	211.2500	10.80	9.80	11.80	10.30	2	65	469.2500	13.80	14.10	13.60	13.80	0.5
J(23)	217.2500	8.90	9.00	8.90	9.10	0.2	66	475.2500	13.70	13.50	13.70	13.20	0.5
K(24)	223.2500	10.80	9.70	9.70	10.10	1.1	67	481.2500	13.40	13.80	13.00	12.90	0.9
L(25)	229.2625	11.00	10.50	10.70	10.40	0.6	68	487.2500	14.00	13.50	12.90	13.40	1.1
M(26)	235.2625	10.80	10.60	10.30	10.80	0.5	69	493.2500	13.90	14.30	13.80	13.30	1
N(27)	241.2625	12.30	12.00	11.70	11.80	0.6	70	499.2500	13.80	13.90	13.00	13.90	0.9
O(28)	247.2625	11.80	11.40	10.60	11.40	1.2	71	505.2500	14.00	13.70	13.70	13.90	0.3
P(29)	253.2625	11.20	11.00	10.20	10.80	1	72	511.2500	14.30	13.60	13.60	13.70	0.7
Q(30)	259.2625	11.30	11.80	10.60	10.60	1.2	73	517.2500	13.30	13.20	13.00	13.20	0.3
R(31)	265.2625	10.70	10.20	9.70	10.60	1	74	523.2500	12.60	12.70	11.90	11.90	0.8
S(32)	271.2625	11.40	11.80	10.80	11.60	1	75	529.2500	12.70	12.60	11.80	12.40	0.9
T(33)	277.2625	11.10	10.30	10.80	11.00	0.8	76	535.2500	13.20	13.50	12.80	13.60	0.8
U(34)	283.2625	9.20	9.20	8.40	9.10	0.8	77	541.2500					
V(35)	289.2625	11.50	11.10	10.90	11.20	0.6	78	547.2500	15.80	14.90	15.20	15.40	0.9
W(36)	295.2625	13.10	13.60	12.90	13.10	0.7	79	553.2500					
AA(37)	301.2625	13.10	13.00	12.50	13.20	0.7	80	559.2500					
BB(38)	307.2625	12.60	11.80	11.70	12.30	0.9	81	565.2500					
CC(39)	313.2625	12.90	12.40	12.50	13.30	0.9							

Max Non Adjacent Channel Level Diff :- 6.9
 Max Adjacent Channel Level Diff :- 2.9
 Max Variance from last proof of performance test :- 0
 Date of last proof of performance test :- N/A

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

TIME WARNER CABLE

SYRACUSE DIVISION

FCC TECHNICAL TESTING STANDARDS AND PROCEDURES

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

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

Specification:

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

Syracuse Division: +/- 25 KHz on all non air-nav video carriers
+/- 3.5 KHz on air-nav visual carriers.

The center frequency of the aural carrier must be 4.5 MHz, +/- 1 KHz above the frequency of the visual carrier.

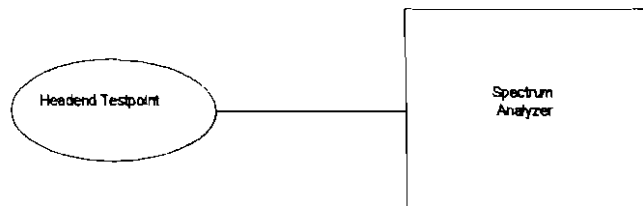
Picture Effect:

Various impairments

Recommended Procedures:

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

Block Diagram:



VISUAL, AURAL CARRIER LEVELS AND 24 HR. VARIATION TESTS (LEVEL REQUIREMENTS) FCC 76.605 (a) (3), (4), (5)

Specification:

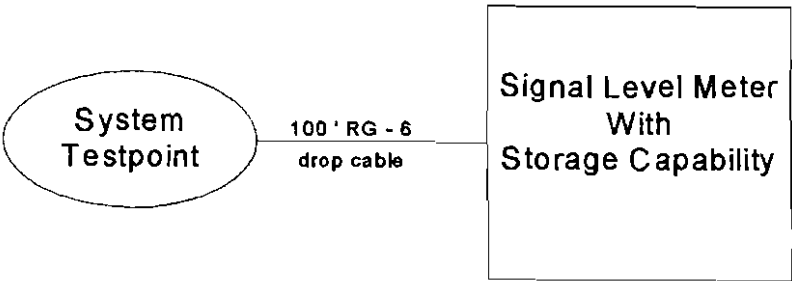
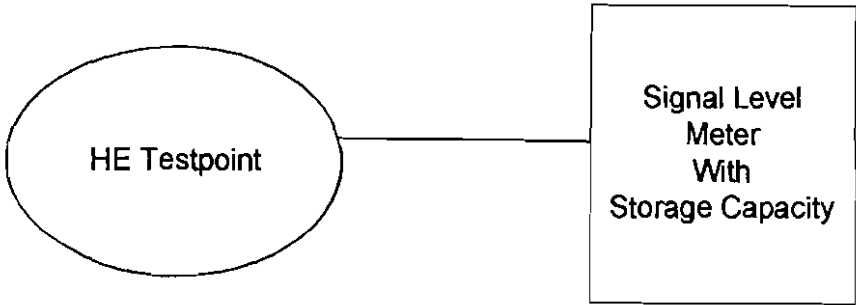
FCC: Levels and Variation Testing

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

Recommended Procedures:

- Prior to the start of testing the Headend levels should be checked and adjusted to obtain no more than 1 db max peak to valley with all non-scrambled aural carriers approximately 13 to 14 db down from video.
- Store the Headend levels in the same meter that will be used for your system test point testing, note the time from the meter and the bin number that this was stored in. This will be entered into the Headend test forms at a later time.
- If you use more than one meter for your 24 hour test, then you should verify its response against the response of the meter used for headed and test point testing.
- At each test point you should again store the recorded levels prior to the converter. The Syracuse Division has decided to test prior to the converter and insert an attachment stating the specifications of the converter.
- For the 24 hour testing you should have a watch to note the time (or use automated time function on signal level meter) and should use either a thermometer to record the temperature or obtain this from the weather channel as the temperature reading from the meter will only indicate the temperature of the meter.

Block Diagram:



IN-CHANNEL FREQUENCY RESPONSE

FCC 76.605 (a) (6)

Specification:

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

Picture Effect:

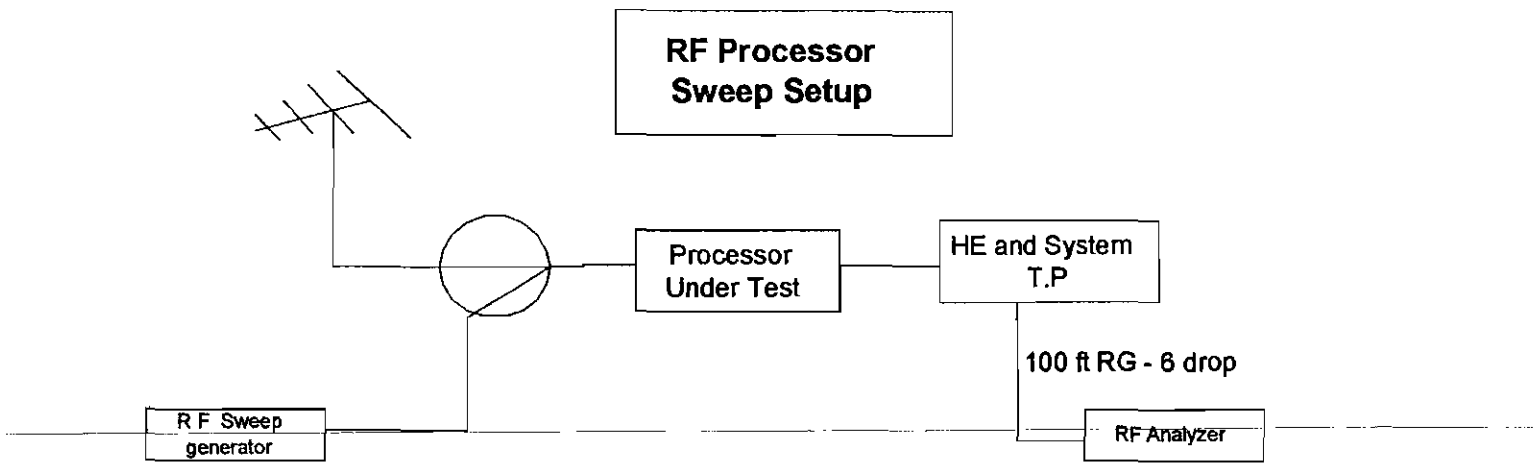
Variations can not only affect the relative amplitude of different frequency components of the visual signal, but relative visual carrier level and chroma delay. This could cause improper colors and poor picture quality.

Recommended Procedures:

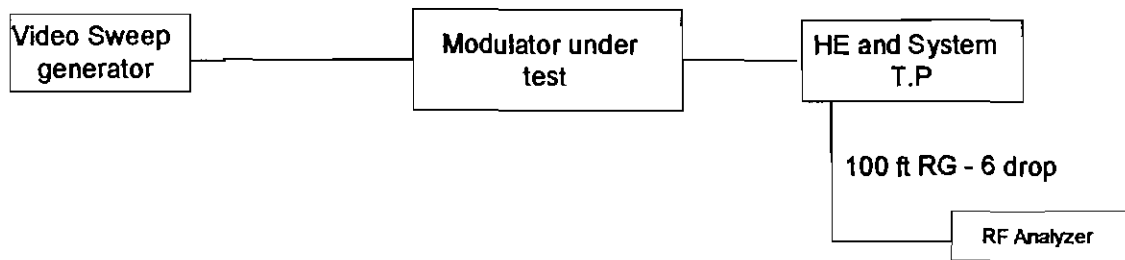
- Measurements should be made on all FCC designated test channels at each system test point. The frequency response of all other channels should be verified periodically at the headend test point.
- Connect equipment as shown in the block diagrams .
- This procedure varies based on the type of analyzer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

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

Block Diagrams



Video Sweep of Modulator



CARRIER TO NOISE RATIO (C/N) FCC 76.605 (a) (7)

Specification:

FCC: Minimum of 43 db

Syracuse Division: Minimum of 47 db prior to converter

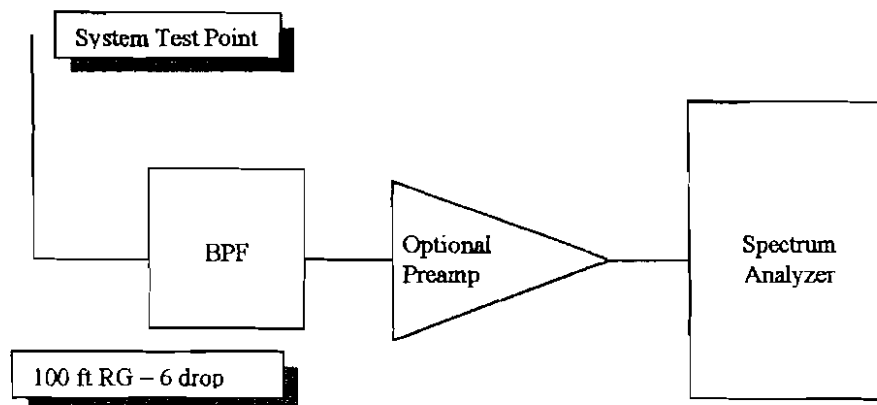
Picture Effect:

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

Recommended Procedures:

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

Block Diagrams



COHERENT DISTURBANCES (CTB, CSO, INTERMOD) FCC 76.605 (a) (8)

Specification:

FCC: Ratio of visual signal level to coherent disturbances shall not be less than 51db. Syracuse Division: Minimum intermod, CSO and CTB is 55db

Picture Effect:

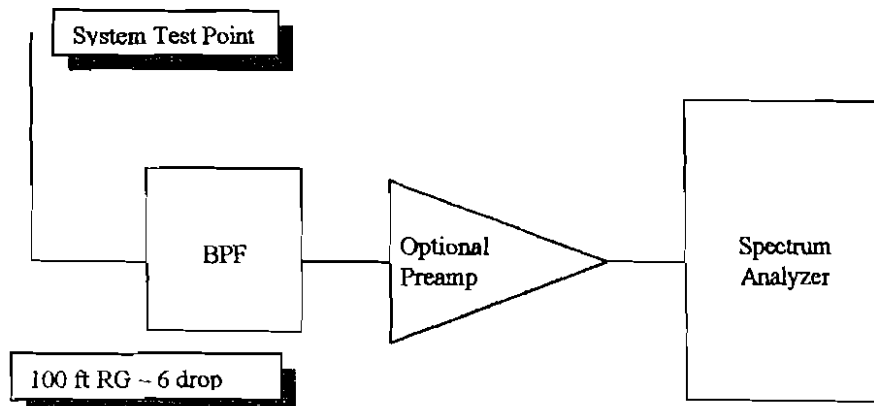
Interfering line patterns, horizontal line streaks, beats in the picture, etc.

Recommended Procedures:

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

Note:

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



LOW FREQUENCY DISTURBANCES (HUM MODULATION) FCC 76.605 (a) (10)

Specification:

FCC: Less than 3%

Syracuse Division: Less than 1%

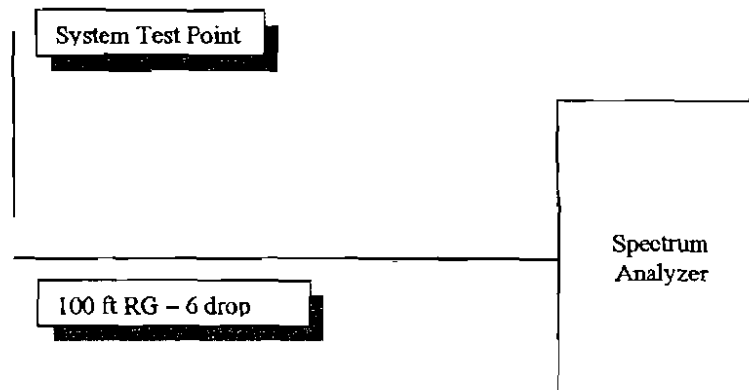
Picture Effect:

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

Recommended Procedures:

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

Block Diagram:



Time Warner Cable

Syracuse Division

Triennial Video Parameter Testing

FCC PART 76.605 a (11) (i) (ii) (iii)

SYSTEM: Binghamton

HEADEND NAME: Vestal

LOCATION: 483 Plaza Drive

TECHNICIAN: J.Pratt

DATE: 8-Mar-07

Time Warner Cable

Syracuse Division

Triennial Video Parameter Testing

FCC PART 76.605 a (11) (i) (ii) (iii)

TEST EQUIPMENT LIST

MANUFACTURER	MODEL #	DESCRIPTION	SERIAL #	LAST CAL DATE
HP	8591C	Spectrum Analyzer	3916A03623	Jun-05

Time Warner Cable

Syracuse Division

Triennial Video Parameter Testing

FCC PART 76.605 a (11) (i) (ii) (iii)

FCC VIDEO TEST FILING

CHANNEL	SERVICE	DIFF GAIN	DIFF PHASE	C/L DELAY
2	WBNG	2.00%	1.1	54 nS
7	WSKG	4.20%	2.2	(-)47 nS
10	TBS	2.60%	1.8	43 nS
15	QVC	3.40%	4.5	27 nS
17	CNN	4.00%	2.4	66 nS
28	FSNY	3.00%	-0.7	15 nS
34	TNT	4.60%	1.8	16 nS
50	C-SPAN	2.40%	0.9	19 nS
78	HSN	7.30%	-3.2	20 nS