



**CABLE TELEVISION SYSTEM  
DISTORTIONS INSPECTION LOG**

SYSTEM: B20      NODE/MGT AREA: 114  
 INITIAL TEST: Y N      CABLE: SUBNET-A  
 RETEST # \_\_\_\_\_      INET COAX \_\_\_\_\_ FIBER \_\_\_\_\_  
 DATE: 9/9/04 TIME: 0925 TEST POINT: 11  
 LOCATION: 517 VIA MONTANA - BURBANK ON UG TAP: 15 PORTS: 4 THRU TERM  
 CASCADE: N.4

PHYSICAL: \_\_\_\_\_ COMMENTS: \_\_\_\_\_  
 POLE/Vault ID: \_\_\_\_\_ LAT/LON (WGS-84): N 34.11.737 W 118.17.381 PHOTO(S): \_\_\_\_\_

Test Channel (Note 1)	CN Min KHz (\$76.605(A))	CB0 (Note 2) Hertz/channel / 310Hz (\$76.605(A)(1))	CTB Hertz/channel / 470Hz (\$76.605(A)(1))	Hum: Max 7% (\$76.605(A)(2))	Additional 1	Additional 2
3	492	72	71.4	.2		
15	52.7	75	74	.4		
21	52.9	67.3	71.0	.2		
47	49.4	71.8	69.3	.6		
52	49.4	71.8	70.6	.4		
63	49.4	67.7	68.0	.4		
71	48.6	67.1	68.0	.6		
75	48.6	75.2	67.9	.6		
78	492	65.3	61.8	.6		
80 to 100 MHz TEST 4 CHANNELS						
100 to 216 MHz TEST 5 CHANNELS						
216 to 300 MHz TEST 6 CHANNELS						
300 to 400 MHz TEST 7 CHANNELS						
400 to 500 MHz TEST 8 CHANNELS						
500 to 600 MHz TEST 9 CHANNELS						
600 to 700 MHz TEST 10 CHANNELS						
700 to 800 MHz TEST 11 CHANNELS						
800 to 900 MHz TEST 12 CHANNELS						
900 to 1000 MHz TEST 13 CHANNELS						

NOTE 1: The channels selected for testing must be rep. of all the channels within the cable television system. §76.601(d)(2). Only use EIA or unnumbered channel numbers.  
 NOTE 2: The ratio of visual signal level to the rms amplitude of any coherent disturbances such as intermodulation products, second and third order distortions or discrete-frequency interfering signals not operating on proper offset assignments. §76.605(B)(1) and (P)  
 Formula to compute number of test points (x) 1000 < x < 12,500: 5 points; if 12,500 < x < 25,000: 6 points; if 25,000 < x < 50,000: 7 points; if 50,000 < x < 100,000: 8 points; if 100,000 < x < 200,000: 9 points; if 200,000 < x < 400,000: 10 points; if 400,000 < x < 800,000: 11 points; if 800,000 < x < 1,600,000: 12 points; if 1,600,000 < x < 3,200,000: 13 points.

TEST POINT LEVELS STORED AS: Via Montana

DO ALL TESTED PARAMETERS PASS? YES NO ► IF NO, LIST FAILED PARAMETERS IN TEST POINT NOTES BELOW.

TEST POINT NOTES

PQ - VG

ALL INFORMATION CONTAINED ON THIS FORM CONFIRMS AT TIME OF TESTING BY:

INSPECTOR SIGNATURE(S): [Signature]      [Signature]  
 CABLE OPERATOR'S REPRESENTATIVE      FRANCHISOR'S REPRESENTATIVE

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FCC Signal Quality Compliance Inspection  
of Charter Communications in the  
Cities of Burbank and Glendale, California

Krammer

ACTERNA

Model: 1450      Serial #: 7413618  
Operator: OPERATOR\_NAME      File: VA\_MONTANA  
Date: 09/08/04 Time: 21:49:13

Description:

Location: NONE      AmpID: \_\_\_\_\_  
Location Type: Undefined      Power Clg: IN  
Area: \_\_\_\_\_      Feeder Maker Clg: 1  
Test Pnt Type: None      Trunk Term: NO  
Test Pnt Comp: 0.0      Voltage Setting: LOW  
AC Voltage: 0      DC Voltage (reg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta VIA (dB)
2		6.9	-7.3	14.2
3		7.0	-7.3	14.3
4		6.9	-8.8	15.7
5		5.8	-8.2	14.0
6		6.3	-8.2	14.5
7		8.2	-7.0	15.2
8		9.1	-6.1	15.2
9		9.0	-6.8	15.8
10		8.5	-6.4	14.9
11		9.0	-6.3	15.3
12		8.8	-6.1	14.9
13		9.0	-5.4	14.4
14		7.1	-7.4	14.5
15		7.8	-7.3	15.1
16		6.6	-7.2	13.8
17		6.7	-6.1	14.8
18		8.5	-3.3	11.8
19		8.7	-6.5	15.2
20		9.0	-5.1	14.1
21		8.5	-6.7	15.2
22		9.1	-5.0	14.1
23		9.7	-5.2	14.9
24		9.5	-4.6	14.1
25		8.0	-6.6	14.6
26		8.5	-5.2	13.7
27		7.5	-6.7	14.2
28		8.2	-6.1	14.3
29		8.2	-6.2	14.4
30		7.7	-6.4	14.1
31		7.9	-6.0	13.9
32		7.0	-7.0	14.0
33		7.4	-6.8	14.2
34		6.3	-7.7	14.0
35		7.7	-7.0	14.7
36		7.1	-6.8	13.9
37		5.2	-7.5	12.7
38		5.7	-7.6	13.3
39		5.7	-8.0	13.7
40		7.1	-7.5	14.6
41		5.4	-9.0	14.4
42		7.5	-7.8	15.1
43		6.7	-7.7	14.4
44		5.7	-8.0	13.7
45		6.8	-7.9	14.7
46		5.7	-6.6	14.3

**AutoTest Report**

Krammer

ACTERNA

Model: 1450      Serial #: 7413618  
Operator: OPERATOR\_NAME      File: VA\_MONTANA      Call Date: 7/27/04  
Date: 09/08/04 Time: 21:49:13      DOS File: VA\_MONTANA

Description:

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta VIA (dB)
47		5.9	-8.6	14.5
48		5.9	-9.0	14.9
49		5.6	-7.8	13.4
50		6.3	-8.2	14.5
51		4.5	-10.0	14.5
52		5.8	-9.1	14.9
53		5.4	-10.2	15.6
54		7.1	-7.3	14.4
55		8.0	-6.3	16.3
56		5.7	-5.9	11.6
57		6.8	-6.9	15.7
58		5.9	-9.8	15.7
59		5.3	-10.3	15.6
60		5.0	-10.2	15.2
61		5.2	-8.9	14.1
62		6.0	-9.0	15.0
63		8.5	-8.4	14.9
64		6.0	-9.3	15.3
65		6.0	-8.7	14.7
66		6.9	-7.6	14.5
67		7.0	-7.7	14.7
68		7.1	-6.0	13.1
69		6.6	-6.1	14.7
70		5.9	-7.5	13.4
71		6.3	-8.4	14.7
72		6.2	-5.3	13.5
73		7.2	-8.4	15.6
74		7.3	-8.8	16.1
75		5.5	-9.0	14.5
76		6.6	-8.4	15.0
77		7.0	-7.7	14.7
78		7.2	-7.4	14.6
79		7.8	-7.7	15.5
80		7.8	-7.7	15.5
81		7.9	-7.6	15.5
82		7.9	-6.8	14.7

TP-11

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	0.0 dBmV	Ch 51 Video = 4.5	Pass
Max Delta Video Level	10.0 dB	Ch 95 and 51, Delta = 9.0	Pass
Min Delta VIA	10.0 dB	Ch 56 Delta VIA = 11.6	Pass
Max Delta VIA	17.0 dB	Ch 55 Delta VIA = 16.3	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 95 and 96, Delta = 5.7	Fail
Min Digital Level	-7.0 dBmV	No data	Pass
Max Digital Level	8.0 dBmV	No data	Pass
Conclusion:			FAIL

Reviewed: *[Signature]*      Date: 9/27/04

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FCC Signal Quality Compliance Inspection  
of Charter Communications in the  
Cities of Burbank and Glendale, California

Krammer

ACTERNA

Model: 1400  
Operator: OPERATOR\_NAME  
Date: 06/08/04 Time: 22:14:31  
Description:

Serial #: 7413018  
File: ORANGE\_GROVE

Location	Area	Test Pnt Type	Test Pnt Comp	AC Voltage	AmpID	Power Cfg	Feeder Meter Cfg	Trunk Term	Voltage Setting	DC Voltage (vgs)
NONE		None	0.0	0		IN	1	NO	LOW	0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta VIA (dB)
2		11.0	-2.4	13.4
3		11.4	-2.1	13.5
4		11.9	-3.0	14.9
5		11.2	-3.0	14.2
6		11.9	-2.7	14.6
7		11.2	-4.3	15.5
8		10.8	-4.4	15.2
9		11.5	-4.0	15.5
10		11.0	-3.7	14.7
11		11.0	-4.0	15.0
12		11.0	-4.6	15.8
13		10.6	-4.7	15.3
14		12.0	-2.4	14.4
15		11.5	-3.4	14.9
16		10.8	-3.2	14.0
17		11.7	-2.8	14.5
18		12.4	0.0	12.4
19		11.9	-3.0	14.9
20		12.5	-1.6	14.1
21		11.5	-3.2	14.7
22		11.8	-2.6	14.4
23		11.4	-3.0	14.4
24		10.9	-3.5	14.4
25		9.7	-4.8	14.5
26		10.5	-4.1	14.6
27		9.8	-5.2	15.0
28		9.7	-4.2	13.9
29		9.9	-4.2	14.1
30		9.9	-4.4	14.3
31		10.4	-4.0	14.4
32		9.9	-4.6	14.5
33		9.9	-4.5	14.4
34		9.3	-4.7	14.0
35		10.4	-4.3	14.7
36		10.2	-3.2	13.4
37		9.6	-4.2	13.8
38		9.4	-5.1	14.5
39		9.5	-4.8	14.3
40		10.5	-3.7	14.2
41		8.9	-5.5	14.4
42		10.7	-4.5	15.2
43		9.8	-4.3	14.1
44		10.0	-3.7	13.7
45		10.4	-3.3	13.7
46		10.6	-3.8	14.4

Krammer

ACTERNA

Model: 1400  
Operator: OPERATOR\_NAME  
Date: 06/08/04 Time: 22:14:31  
Description:

Serial #: 7413018  
File: ORANGE\_GROVE

Cal Date: 7/27/04  
DOS File: ORANGE\_GROVE

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta VIA (dB)
47		10.1	-4.7	14.8
48		10.6	-4.1	14.7
49		10.3	-4.0	14.3
50		10.3	-3.6	13.9
51		9.9	-4.7	14.6
52		9.8	-4.9	14.7
53		10.2	-4.8	15.0
54		11.2	-3.7	14.9
55		11.7	-3.3	15.0
56		10.0	-1.3	11.3
57		10.6	-4.0	14.6
58		10.8	-3.9	14.7
59		10.1	-4.9	15.0
60		11.2	-3.4	14.6
61		10.9	-3.8	14.7
62		11.9	-3.1	15.0
63		11.6	-2.7	14.3
64		11.5	-3.4	14.9
65		11.4	-3.5	14.9
66		12.2	-2.9	15.1
67		11.5	-2.7	14.2
68		11.9	-1.5	13.4
69		11.9	-2.6	14.5
70		11.9	-2.7	14.6
71		11.6	-3.3	14.9
72		13.1	-1.1	14.2
73		11.3	-3.8	15.1
74		12.2	-2.4	14.6
75		11.4	-3.2	14.6
76		11.8	-3.3	15.1
77		11.5	-3.2	14.7
78		12.2	-2.5	14.7
79		12.8	-2.4	15.2
80		10.9	-2.9	13.8
81		12.4	-3.1	15.5
82		12.3	-3.0	15.3

TP-12

LIMIT CHECK	Limit	Actual	Pass
Min Video Carrier Level	0.0 dBmV	Ch 41 Video = 8.9	Pass
Max Delta Video Level	10.0 dB	Ch 41 and 72, Delta = 4.2	Pass
Min Delta VIA	10.0 dB	Ch 56 Delta VIA = 11.3	Pass
Max Delta VIA	17.0 dB	Ch 12 Delta VIA = 15.6	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 95 and 96, Delta = 1.9	Pass
Min Digital Level	-7.0 dBmV	No data	Pass
Max Digital Level	8.0 dBmV	No data	Pass

PASS

Conclusion:

Reviewed: Date: 9/27/04

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SYSTEM: BUR **K** CABLE TELEVISION SYSTEM  
INITIAL TEST: Y N DISTORTIONS INSPECTION LOG  
RETEST # \_\_\_\_\_ DATE: 9/9/04 TIME: 10:45 TEST POINT: 13  
LOCATION: 1624 LANDIS OH UG TAP: 15 DB / PORTS: 4 THRU TERM  
PHYSICAL: \_\_\_\_\_ COMMENTS: \_\_\_\_\_ CASCADE: N. 4  
POLE/VAULT ID: \_\_\_\_\_ LAT/LON (WGS-84): N 34 11.586 W 118 19.687 PHOTO(S): \_\_\_\_\_

NOCE/MGT AREA: 106  
CABLE: SUBNET-A  
SUBNET-B  
INET COAX FIBER

Test Channel (Note 1)	C/N: Max 43dBc §76.605(a)(7)	CSO (Note 2)		Num: Max 7% §76.605(a)(2)	Additional 1:	Additional 2:
		Noncoherent f - 5dBc §76.605(a)(9)(i)	Coherent f - 47dBc §76.605(a)(9)(ii)			
3	56.8	78	78.0	1.2		
15	56.6	78	78	1.0		
21	56	62.9	75.0	1.0		
47	56.0	75	71	1.0		
52	56	74	75	1.2		
63	53.1	71.4	72.5	1.0		
71	55.73	76.3	71.5	1.8		
75	55.0	76.3	72	.6		
78	51.9	68.9	76.3	1.0		
8 to 100 MHz TEST 4 CHANNELS						
100 to 218 MHz TEST 5 CHANNELS						
218 to 300 MHz TEST 8 CHANNELS						
300 to 400 MHz TEST 7 CHANNELS						
400 to 500 MHz TEST 9 CHANNELS						
500 to 600 MHz TEST 9 CHANNELS						
600 to 700 MHz TEST 10 CHANNELS						
700 to 800 MHz TEST 11 CHANNELS						
800 to 900 MHz TEST 12 CHANNELS						
900 to 1000 MHz TEST 13 CHANNELS						

Note 1: The chans selected for testing must be rep. of all the chans. within the cable television system. §76.601(c)(2). Only use EIA or un-mapped channel numbers.  
Note 2: The ratio of visual signal level to the rms amplitude of any coherent disturbances such as intermodulation products, second and third order distortions or discrete-frequency interfering signals not operating on proper offset assignments. §76.605(9)(i) and (ii)  
Formula to compute number of test points (x): 1000\*x < 12,500: 6 points. If 12,500+ subs, x = 6 + (subs/12500). Round up to next whole number. §76.601(b)(1)

TEST POINT LEVELS STORED AS: Landis

DID ALL TESTED PARAMETERS PASS? YES NO ► IF NO, LIST FAILED PARAMETERS IN TEST POINT NOTES BELOW.

TEST POINT NOTES

ALL INFORMATION CONTAINED ON THIS FORM CONFIRMED AT TIME OF TESTING BY:

INSPECTOR SIGNATURE(S): [Signature] [Signature]  
CABLE OPERATOR'S REPRESENTATIVE FRANCHISEE'S REPRESENTATIVE

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FCC Signal Quality Compliance Inspection  
of Charter Communications in the  
Cities of Burbank and Glendale, California

AutoTest Report

Krammer

ACTERNA

Model: 1400      Serial #: 7413018  
Operator: OPERATOR\_NAME      File: LANDIS  
Date: 09/09/04 Time: 22:52:14  
Description:

Location: NONE	Amp/D... Power Ctg: IN
Location Type: Undefined	Feeder Meter Ctg: 1
Area:	Trunk Term: NO
Test Pkt Type: None	Voltage Setting: LOW
Test Pkt Comp: 0.0	DC Voltage (reg): 0.0
AC Voltage: 0	

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2		13.8	-0.6	14.4
3		12.9	-1.4	14.3
4		12.6	-2.9	15.5
5		12.3	-2.2	14.5
6		12.8	-2.0	14.8
7		11.1	-3.7	14.8
8		11.5	-3.2	14.7
9		11.3	-4.3	15.6
10		10.4	-4.4	14.8
11		10.7	-4.6	15.3
12		11.2	-4.3	15.5
13		10.4	-3.7	14.1
14		11.6	-2.2	13.8
15		11.5	-3.5	15.0
16		11.6	-2.8	14.4
17		11.8	-3.2	15.0
18		11.9	-3.3	15.2
19		11.4	-3.1	14.5
20		11.8	-2.4	14.2
21		11.3	-3.9	15.2
22		11.3	-3.2	14.5
23		11.3	-2.8	14.1
24		10.9	-3.2	14.1
25		10.0	-4.5	14.5
26		10.7	-3.4	14.1
27		9.8	-4.5	14.3
28		10.0	-3.5	13.5
29		10.0	-4.5	14.5
30		10.4	-3.9	14.3
31		10.8	-3.4	14.2
32		10.5	-4.3	14.8
33		10.5	-3.9	14.4
34		9.6	-4.6	14.2
35		10.7	-3.7	14.4
36		10.8	-2.5	13.3
37		10.3	-3.8	14.1
38		10.4	-3.7	14.1
39		10.4	-4.4	14.8
40		11.2	-3.0	14.2
41		9.9	-4.8	14.7
42		11.4	-3.8	15.2
43		10.6	-3.1	13.7
44		10.1	-4.2	14.3
45		10.6	-3.5	14.1
46		10.5	-4.2	14.7

Krammer

ACTERNA

Model: 1400      Serial #: 7413018      Cal Date: 7/27/04  
Operator: OPERATOR\_NAME      File: LANDIS      DOS File: LANDIS  
Date: 09/09/04 Time: 22:52:14  
Description:

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
47		10.0	-4.4	14.4
48		9.9	-5.2	15.1
49		9.4	-5.0	14.4
50		9.4	-4.8	14.2
51		8.7	-6.3	15.0
52		9.0	-5.8	14.8
53		8.6	-6.2	14.8
54		9.5	-5.3	14.8
55		9.7	-5.6	15.3
56		7.9	-3.7	11.6
57		8.7	-6.0	14.7
58		8.1	-6.2	14.9
59		7.8	-7.1	14.7
60		8.3	-6.5	14.8
61		9.0	-5.7	14.7
62		9.3	-5.7	15.0
63		9.5	-5.0	14.5
64		8.0	-6.6	14.6
65		8.5	-6.2	14.7
66		9.1	-5.7	14.8
67		9.6	-5.2	14.8
68		9.7	-4.0	13.7
69		9.6	-5.3	14.9
70		9.3	-5.1	14.4
71		9.4	-5.4	14.8
72		11.0	-3.4	14.4
73		9.1	-6.4	15.5
74		9.3	-5.3	14.6
75		9.2	-5.6	14.8
76		9.3	-5.8	15.1
77		9.1	-5.9	15.0
78		9.0	-5.6	14.6
95		13.4	-1.4	14.8
96		13.0	-0.5	13.5
97		13.3	-2.3	15.6
99		12.5	-2.7	15.2

TP-13

LIMIT CHECK	Limit	Actual	Pass
Min Video Carrier Level	0.0 dBmV	Ch 59 Video = 7.6	Pass
Max Delta Video Level	10.0 dB	Ch 2 and 59, Delta = 6.2	Pass
Min Delta V/A	10.0 dB	Ch 56 Delta V/A = 11.6	Pass
Max Delta V/A	17.0 dB	Ch 97 Delta V/A = 15.6	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 72 and 73, Delta = 1.9	Pass
Min Digital Level	-7.0 dBmV	No data	Pass
Max Digital Level	8.0 dBmV	No data	Pass
Conclusion:			PASS

Reviewed: S.D. Allen      Date: 9/27/04

Page 2



SYSTEM: BUR **K=** CABLE TELEVISION SYSTEM  
DISTORTIONS INSPECTION LOG

INITIAL TEST: Y N  
RETEST # \_\_\_\_\_

DATE: 9/9/04 TIME: 1130 TEST POINT: 14

NODE/MGT AREA: 104  
CABLE: SUBNET-A  
SUBNET-B  
INET COAX FIBER

LOCATION: 1136  
422 VISTA RIDGE ON (G) TAP: 7 DB / PORTS: 4 THRU TERM  
CASCADE: N. 3

PHYSICAL: \_\_\_\_\_ COMMENTS: \_\_\_\_\_  
219 937  
POLE/Vault ID: \_\_\_\_\_ LAT/LON (WGS-84) N: 31.12.522 W: 117.15.300 PHOTO(S): \_\_\_\_\_

Test Channel (Note 1)	C/N Min (dBc) (\$78.605(A)(7))	CSD (Note 2) Noncoherent / 5 dBc (\$78.605(A)(8)) Coherent / 4 dBc (\$78.605(A)(9))	CTB (\$78.605(A)(10))	Hum. Max 7% (\$78.605(A)(11))	Additional 1	Additional 2
3	50.0	72	72.3	.8		
15	52	73	56.3	.6		
21	52	68.3	55.6	.4		
47	46.2	68.3	66.9	.2		
52	46.7	68.7	67.5	.6		
63	46.4	68.8	64.8	.4		
71	45.8	68.4	66.8	.6		
75	45.6	67.9	62.9	.4		
78	45.8	68.1	61.9	.6		
800 to 700 MHz TEST 10 CHANNELS						
700 to 800 MHz TEST 11 CHANNELS						
800 to 900 MHz TEST 12 CHANNELS						
900 to 1000 MHz TEST 13 CHANNELS						

Channel to test

0 to 700 MHz TEST 4 CHANNELS

100 to 210 MHz TEST 5 CHANNELS

210 to 300 MHz TEST 6 CHANNELS

300 to 400 MHz TEST 7 CHANNELS

400 to 500 MHz TEST 8 CHANNELS

500 to 600 MHz TEST 9 CHANNELS

800 to 900 MHz TEST 12 CHANNELS

900 to 1000 MHz TEST 13 CHANNELS

Note 1: The channels selected for testing must be rep. of all the chans. within the cable television system. (\$78.601(c)(2)). Only use EIA or unmappped channel numbers.  
Note 2: The ratio of ritual signal level to the rms amplitude of any coherent disturbances such as intermodulation products, second and third order distortions or discrete-frequency interfering signals not operating on proper offset assignments. (\$78.605(B)(1)) and (1)

Formula to compute number of test points (x):  $1000 \times x + 12,500$ ; 6 points; if  $12,500 \div \text{subs.}$   $x = (\text{subs.} / 12,500)$  Round up to next whole number. (\$78.601(b)(1))

TEST POINT LEVELS STORED AS: VISTA Ridge

DID ALL TESTED PARAMETERS PASS? YES NO  IF NO, LIST FAILED PARAMETERS IN TEST POINT NOTES BELOW.

TEST POINT NOTES

ALL INFORMATION CONTAINED ON THIS FORM CONFIRMED AT TIME OF TESTING BY

INSPECTOR SIGNATURE(S): \_\_\_\_\_  
CABLE OPERATOR REPRESENTATIVE

\_\_\_\_\_ 219  
FRANCHISEE REPRESENTATIVE

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FCC Signal Quality Compliance Inspection  
of Charter Communications in the  
Cities of Burbank and Glendale, California

Model: 1450				Serial #: 7413618				
Operator: OPERATOR_NAME				File: VISTA_RIDGE				
Date: 09/09/04 Time: 23:54:02				Cal Date: 7/27/04				
Description:				DOS File: VISTA_RIDGE				
Location:	NONE	AmplID:		Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
Location Type:	Undefined	Power Clg:	IN	47		3.1	-11.0	141
Area:		Feeder Master Clg:	1	48		3.8	-11.2	15.0
Test Pnt Type:	None	Trunk Term:	NO	49		3.4	-10.6	14.0
Test Pnt Comp:	0.0	Voltage Setting:	LOW	50		3.6	-10.2	13.8
AC Voltage:	0	DC Voltage (reg):	0.0	51		2.7	-11.8	14.5
				52		3.1	-11.5	14.6
				53		3.0	-11.4	14.4
				54		4.1	-10.9	15.0
				55		4.7	-10.7	15.4
				56		2.4	-9.1	11.5
				57		3.6	-11.7	15.3
				58		3.1	-11.8	14.9
				59		2.5	-12.9	15.4
				60		2.8	-11.8	14.6
				61		3.0	-11.6	14.6
				62		3.2	-11.8	15.0
				63		3.6	-11.1	14.7
				64		2.5	-12.0	14.5
				65		3.2	-11.8	15.0
				66		3.7	-11.6	15.3
				67		3.2	-11.0	14.2
				68		4.1	-10.0	14.1
				69		3.5	-11.1	14.6
				70		3.6	-11.2	14.8
				71		3.4	-11.9	15.3
				72		4.4	-9.8	14.2
				73		2.5	-12.8	15.3
				74		3.0	-11.7	14.7
				75		2.5	-12.0	14.5
				76		3.0	-12.1	15.1
				77		3.0	-11.8	14.8
				78		3.1	-11.1	14.2
				95		8.4	-6.1	14.5
				96		8.9	-5.2	14.1
				97		9.0	-6.7	15.7
				99		8.9	-6.4	15.3

  

LIMIT CHECK			
Min Video Carrier Level	0.0 dBmV	Actual	Pass
Max Delta Video Level	10.0 dB	Ch 56 Video = 2.4	Pass
Min Delta V/A	10.0 dB	Ch 97 and 56, Delta = 6.6	Pass
Max Delta V/A	17.0 dB	Ch 56 Delta V/A = 11.5	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 97 Delta V/A = 15.7	Pass
Min Digital Level	-7.0 dBmV	Ch 55 and 56, Delta = 2.3	Pass
Max Digital Level	8.0 dBmV	No data	Pass
Conclusion:		No data	PASS

  

Reviewed: *Scott Allen* Date: *9/27/04*

TP-14





FCC Signal Quality Compliance Inspection  
of Charter Communications in the  
Cities of Burbank and Glendale, California

AutoTest Report

Krammer

ACTERNA

Model 1400 Serial # 7413618  
Operator: OPERATOR\_NAME File: BRACE\_CANYON  
Date: 09/09/04 Time: 00:20:52

Model 1400 Serial # 7413616  
Operator: OPERATOR\_NAME File: BRACE\_CANYON  
Date: 09/09/04 Time: 00:20:52

Cal Date: 7/27/04  
DOS File: BRACE\_CANYON

Location: NONE AmpID: \_\_\_\_\_  
Location Type: Undefined Power Clg: IN  
Area: \_\_\_\_\_ Feeder Maker Clg: 1  
Test Pit Type: None Trunk Term: NO  
Test Pit Comp: 0.0 Voltage Setting: LOW  
AC Voltage: 0 DC Voltage (reg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2		2.9	-10.8	13.7
3		3.7	-10.0	13.7
4		4.4	-10.6	15.0
5		5.3	-9.2	14.5
6		5.0	-9.6	14.6
7		5.7	-9.3	15.0
8		5.7	-9.2	14.9
9		5.8	-9.6	15.4
10		5.1	-9.6	14.7
11		5.8	-9.1	14.9
12		6.1	-9.4	15.5
13		6.0	-8.7	14.7
14		4.9	-9.2	14.1
15		5.0	-10.1	15.1
16		4.9	-9.2	14.1
17		5.2	-9.1	14.3
18		5.6	-9.5	15.1
19		5.6	-9.6	15.2
20		6.0	-8.5	14.5
21		5.8	-9.5	15.3
22		5.4	-9.2	14.6
23		6.3	-8.0	14.3
24		6.1	-8.4	14.5
25		5.1	-9.8	14.9
26		6.1	-8.0	14.1
27		5.2	-9.4	14.6
28		5.6	-9.2	14.8
29		6.2	-7.8	14.0
30		5.6	-8.9	14.5
31		5.9	-8.7	14.6
32		5.4	-9.5	14.9
33		4.6	-9.8	14.4
34		4.0	-10.6	14.6
35		5.3	-9.2	14.5
36		5.0	-8.6	13.6
37		4.1	-10.0	14.1
38		3.9	-10.1	14.0
39		4.3	-10.6	14.9
40		5.0	-9.9	14.9
41		3.3	-11.0	14.3
42		5.0	-10.3	15.3
43		4.3	-9.9	14.2
44		4.2	-10.1	14.3
45		4.2	-9.9	14.1
46		4.2	-10.4	14.6

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
47		3.4	-11.2	14.6
48		3.7	-10.9	14.6
49		3.3	-10.6	14.1
50		3.6	-10.4	14.0
51		2.7	-11.9	14.6
52		3.2	-11.7	14.9
53		3.3	-11.9	15.2
54		3.9	-11.0	14.9
55		4.2	-10.9	15.1
56		2.2	-9.3	11.5
57		3.5	-11.8	15.3
58		3.0	-12.1	15.1
59		1.9	-13.1	15.0
60		2.8	-12.5	15.3
61		2.7	-12.5	15.2
62		2.7	-12.4	15.1
63		2.4	-12.0	14.4
64		1.6	-13.5	15.1
65		2.0	-13.0	15.0
66		2.2	-12.9	15.1
67		1.9	-12.2	14.1
68		2.3	-11.7	14.0
69		2.3	-13.1	15.4
70		1.4	-13.0	14.4
71		1.2	-13.5	14.7
72		2.6	-11.4	14.0
73		1.1	-14.9	16.0
74		1.3	-13.5	14.8
75		0.5	-14.1	14.6
76		0.9	-14.3	15.2
77		1.0	-14.1	15.1
78		0.8	-13.7	14.5
95		5.9	-8.8	14.7
96		6.3	-8.1	14.4
97		6.2	-9.8	16.0
99		5.6	-9.6	15.2

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LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	0.0 dBmV	Ch 75 Video = 0.5	Pass
Max Delta Video Level	10.0 dB	Ch 96 and 75, Delta = 5.8	Pass
Min Delta V/A	10.0 dB	Ch 58 Delta V/A = 11.5	Pass
Max Delta V/A	17.0 dB	Ch 97 Delta V/A = 16.0	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 55 and 56, Delta = 2.0	Pass
Min Digital Level	-7.0 dBmV	No data	Pass
Max Digital Level	8.0 dBmV	No data	Pass
Conclusion:			PASS

Reviewed: *[Signature]* Date: 9/27/04

Page 2



SYSTEM: BUR **K=** CABLE TELEVISION SYSTEM  
DISTORTIONS INSPECTION LOG

INITIAL TEST: Y N  
RETEST # \_\_\_\_\_

DATE: 4/4/04 TIME: 1345 TEST POINT: 16

LOCATION: 3017 VICTORY BLVD ON UC TAP: 26 DB / PORTS: 4 THRU TERM  
CASCADE: N+4

PHYSICAL: \_\_\_\_\_ COMMENTS: \_\_\_\_\_

POLE/VAULT ID: \_\_\_\_\_ LAT/LON (WGS-84): N 34 11.113 W 118 20.669 PHOTO(S): \_\_\_\_\_

NODE/MGT AREA: 100  
CABLE: SUBNET-A  
SUBNET-B  
INET COAX FIBER

WPT 17

Test Channel (Note 1)	CA: Min dB(c) \$75.605(a)(7)	CSO (Note 2) Noncoherent / -54dBc \$75.605(a)(9)(i) Coherent / -47dBc \$75.605(a)(9)(ii)	CTB (Note 2) \$75.605(a)(9)(i)	Hum: Max 2% \$75.605(a)(7)	Additional 1:	Additional 2:
3	48.4	74.2	74.2	.8		
15	53.0	73.5	75.5	-2		
21	53.4	67.0	75.6	.2		
47	51.5	72	72	.4		
52	51.3	73	73.5	.4		
63	51.8	64.3	68.6	.6		
71	51.4	67.3	69.0	.6		
75	51.4	67.4	69.3	.4		
78	51.0	66.0	67.1	.6		
0 to 100 MHz TEST 4 CHANNELS						
100 to 216 MHz TEST 5 CHANNELS						
216 to 300 MHz TEST 8 CHANNELS						
300 to 430 MHz Test 7 channels						
430 to 500 MHz TEST 8 CHANNELS						
500 to 800 MHz TEST 8 CHANNELS						
800 to 700 MHz TEST 12 CHANNELS						
700 to 800 MHz TEST 11 CHANNELS						
800 to 900 MHz TEST 12 CHANNELS						
900 to 1000 MHz TEST 13 CHANNELS						

Note 1: The chans selected for testing must be rep. of all the chans. within the cable television system. \$75.601(c)(2). Only use EIA or unmapped channel numbers.  
Note 2: The ratio of visual signal level to the rms amplitude of any coherent disturbances such as intermodulation products, second and third order distortions or discrete-frequency interfering signals not operating on proper offset assignments. \$75.605(b)(1) and (ii)  
Formula to compute number of test points (x):  $1000 < x < 12,500$ : 8 points. If  $12,500 < \text{subs}$ ,  $x = 6 + (\text{subs} / 12500)$ . Round up to next whole number. \$75.601(b)(1)

TEST POINT LEVELS STORED AS: VICTORY

DID ALL TESTED PARAMETERS PASS? YES NO ► IF NO, LIST FAILED PARAMETERS IN TEST POINT NOTES BELOW:

TEST POINT NOTES

ALL INFORMATION CONTAINED ON THIS FORM CONFIRMED AT TIME OF TESTING BY:

INSPECTOR SIGNATURE(S): [Signature] CABLE OPERATOR(S) REPRESENTATIVE

[Signature] FRANCHISOR'S REPRESENTATIVE

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FCC Signal Quality Compliance Inspection  
of Charter Communications in the  
Cities of Burbank and Glendale, California

Auto Test Report

Kramer  
ACTERNA  
Model 1450  
Operator: OPERATOR\_NAME  
Date: 09/09/04 Time: 01:55:05  
Description:  
Serial # 7413618  
File: VICTORY

Location: NONE  
Location Type: Undefined  
Airs:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0  
Ampl: \_\_\_\_\_  
Power Cfg: IN  
Feeder Mater Cfg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (reg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2		5.5	-9.0	14.5
3		5.8	-8.4	14.0
4		5.9	-8.5	14.4
5		6.3	-8.0	14.3
6		5.9	-8.7	14.6
7		6.3	-8.3	14.6
8		6.6	-8.2	14.8
9		6.9	-8.8	15.7
10		5.7	-8.9	14.6
11		6.6	-8.6	15.2
12		6.4	-9.0	15.4
13		6.6	-8.4	15.0
14		6.4	-8.1	14.5
15		6.1	-9.1	15.2
16		6.1	-8.0	14.1
17		6.5	-8.5	15.0
18		6.8	-8.4	15.2
19		6.7	-8.5	15.2
20		7.2	-7.3	14.5
21		6.7	-8.5	15.2
22		6.5	-8.3	14.8
23		6.4	-8.6	15.0
24		6.4	-8.0	14.4
25		5.1	-9.5	14.6
26		6.2	-7.8	13.8
27		5.0	-9.4	14.4
28		5.4	-9.4	14.8
29		6.3	-7.7	14.0
30		5.5	-8.8	14.3
31		6.4	-8.0	14.4
32		5.8	-8.6	14.4
33		5.8	-8.3	14.1
34		5.4	-9.1	14.5
35		6.9	-7.4	14.3
36		7.1	-6.4	13.5
37		6.3	-7.6	13.9
38		6.5	-8.0	14.5
39		6.3	-8.5	14.8
40		7.1	-7.8	14.9
41		5.6	-8.8	14.4
42		7.2	-8.1	15.3
43		6.5	-7.6	14.1
44		6.5	-7.8	14.3
45		6.7	-7.4	14.1
46		7.0	-8.0	15.0

Kramer  
ACTERNA  
Model 1450  
Operator: OPERATOR\_NAME  
Date: 09/09/04 Time: 01:55:05  
Description:  
Serial # 7413618  
File: VICTORY  
Cal Date: 7/27/04  
DOS File: VICTORY

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
47		6.3	-7.9	14.2
48		6.8	-8.1	14.9
49		6.3	-7.5	13.8
50		6.5	-7.4	13.9
51		5.6	-9.1	14.7
52		6.1	-8.4	14.5
53		6.4	-8.8	15.2
54		7.3	-7.5	14.8
55		7.6	-7.4	15.0
56		6.0	-8.2	11.2
57		7.1	-7.8	14.9
58		7.4	-7.4	14.8
59		6.6	-8.6	15.2
60		7.6	-7.2	14.8
61		7.5	-7.3	14.8
62		8.4	-6.9	15.3
63		7.9	-6.5	14.4
64		7.7	-7.4	14.6
65		7.2	-7.4	14.6
66		7.8	-7.2	15.0
67		7.3	-7.0	14.3
68		7.8	-6.8	13.6
69		7.5	-6.8	14.3
70		7.3	-7.1	14.4
71		7.3	-7.8	15.1
72		8.5	-6.6	14.1
73		6.8	-8.9	15.7
74		7.1	-7.3	14.4
75		6.6	-8.1	14.7
76		7.1	-8.0	15.1
77		6.6	-8.6	15.2
78		7.0	-7.7	14.7
79		6.6	-8.1	14.7
80		6.9	-7.3	14.2
81		6.8	-8.7	15.5
82		6.8	-8.5	15.3

TP-16

LIMIT CHECK	Limit	Actual	Pass
Min Video Carrier Level	0.0 dBmV	Ch 27 Video = 5.0	Pass
Max Delta Video Level	10.0 dB	Ch 27 and 72, Delta = 3.5	Pass
Min Delta V/A	10.0 dB	Ch 56 Delta V/A = 11.2	Pass
Max Delta V/A	17.0 dB	Ch 9 Delta V/A = 15.7	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 72 and 73, Delta = 1.7	Pass
Min Digital Level	-7.0 dBmV	No data	Pass
Max Digital Level	8.0 dBmV	No data	Pass
Conclusion:			PASS

Reviewed: *[Signature]* Date: 9/27/04



NODE/MGT AREA: 99

SYSTEM: Bur **K** CABLE TELEVISION SYSTEM  
INITIAL TEST: Y N DISTORTIONS INSPECTION LOG  
RETEST # \_\_\_\_\_ DATE: 9/9/04 TIME: 1425 TEST POINT: 17  
CABLE: SUBNET-A  
SUBNET-B  
IN ET COAX FIBER

LOCATION: 1800 CLAYBORNE ON TUG TAP: 10 DB/PORTS: 2 THRU TERM  
PHYSICAL: \_\_\_\_\_ COMMENTS: \_\_\_\_\_ CASCADE: N+3  
POLE/Vault ID: \_\_\_\_\_ LAT/LON (WGS-84) N34 10.875 W118 21.546 PHOTO(S) \_\_\_\_\_

Test Channel (Note 1)	C/N Min dBc (\$78.605(A)(2))	CSD (Note 2) Noncoherent / 31dBc (\$78.605(A)(2)) Coherent / 41dBc (\$78.605(A)(2))	CTB (\$78.605(B)(1))	Hum. Max 2% (\$78.605(A)(2))	Additional 1:	Additional 2:
<u>3</u>	<u>49.8</u>	<u>72</u>	<u>72</u>	<u>.4</u>		
<u>15</u>	<u>51.7</u>	<u>74</u>	<u>68.3</u>	<u>.6</u>		
<u>21</u>	<u>51.8</u>	<u>64.3</u>	<u>64.9</u>	<u>.4</u>		
<u>47</u>	<u>45.6</u>	<u>68.7</u>	<u>66.5</u>	<u>.8</u>		
<u>52</u>	<u>49.4</u>	<u>68.2</u>	<u>62.8</u>	<u>.4</u>		
<u>63</u>	<u>45.7</u>	<u>68.1</u>	<u>68.5</u>	<u>.4</u>		
<u>71</u>	<u>52.7</u>	<u>70</u>	<u>70.1</u>	<u>.8</u>		
<u>75</u>	<u>52.7</u>	<u>66.3</u>	<u>70.1</u>	<u>.6</u>		
<u>78</u>	<u>49.7</u>	<u>69.9</u>	<u>69.2</u>	<u>.6</u>		
800 to 1000 MHz Test 13 Channels						

Channel in Use: 18

Note 1: The channels selected for testing must be rep. of all the chans. within the cable television system. §78.601(c)(2). Only use EIA or unmapped channel numbers.  
Note 2: The ratio of visual signal level to the rms amplitude of any coherent disturbances such as intermodulation products, second and third order distortions or discrete frequency interfering signals not operating on proper offset assignments. §78.605(B)(1) and (4).  
Formula to compute number of test points (x):  $1000 \div x = 12,500$  6 points. If  $12,500 \div \text{ratio}$ ,  $x = 6 \div (\text{ratio} / 12,500)$ . Round up to next whole number. §78.601(b)(1)

TEST POINT LEVELS STORED AS: Clayborne

DID ALL TESTED PARAMETERS PASS? YES NO ► IF NO, LIST FAILED PARAMETERS IN TEST POINT NOTES BELOW

TEST POINT NOTES

ALL INFORMATION CONTAINED ON THIS FORM CONFIRMED AT TIME OF TESTING BY:

INSPECTOR SIGNATURE(S): \_\_\_\_\_  
CABLE OPERATOR'S REPRESENTATIVE: \_\_\_\_\_  
FRANCHISOR'S REPRESENTATIVE: \_\_\_\_\_

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FCC Signal Quality Compliance Inspection  
of Charter Communications in the  
Cities of Burbank and Glendale, California

Krammer

ACTERNA

Model: 1450      Serial #: 7413618  
Operator: OPERATOR\_NAME      File: CLYBOURN  
Date: 09/09/04 Time: 02:31:34  
Description:

Location: NONE      AmpID: \_\_\_\_\_  
Location Type: Undefined      Power Cfg: IN  
Area: \_\_\_\_\_      Feeder Make: Cfg: 1  
Test Pkt Type: None      Trunk Term: NO  
Test Pkt Comp: 0.0      Voltage Setting: LOW  
AC Voltage: 0      DC Voltage (Vg): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta VIA (dB)
2		10.0	-4.6	14.6
3		9.8	-5.0	14.6
4		9.8	-5.5	15.1
5		9.8	-4.4	14.2
6		9.8	-5.3	14.9
7		8.1	-7.3	15.4
8		7.9	-7.2	15.1
9		8.0	-7.7	15.7
10		7.3	-8.3	15.6
11		7.6	-7.6	15.2
12		7.6	-7.9	15.5
13		7.1	-7.5	14.6
14		8.9	-5.1	14.0
15		8.6	-4.7	15.3
16		8.5	-5.7	14.2
17		8.7	-6.2	14.9
18		9.4	-4.7	16.1
19		8.3	-6.8	15.1
20		8.7	-5.5	14.2
21		8.2	-6.9	15.1
22		8.5	-7.0	15.5
23		7.7	-7.8	15.5
24		7.1	-7.4	14.5
25		6.1	-9.3	15.4
26		6.6	-8.1	14.9
27		5.3	-9.7	15.0
28		5.8	-9.4	15.2
29		6.1	-8.4	14.5
30		5.8	-9.4	15.2
31		5.8	-8.6	14.4
32		5.8	-9.4	15.0
33		5.1	-9.5	14.6
34		4.7	-10.1	14.8
35		5.7	-8.9	14.6
36		5.3	-8.6	13.9
37		4.4	-9.6	14.0
38		3.9	-10.4	14.3
39		4.2	-10.9	15.1
40		4.8	-10.4	15.2
41		3.3	-11.6	14.9
42		4.9	-10.5	15.4
43		4.1	-10.0	14.1
44		4.2	-10.2	14.4
45		4.2	-10.3	14.5
46		4.4	-11.0	15.4

Krammer

ACTERNA

Model: 1450      Serial #: 7413618      Cal Date: 7/27/04  
Operator: OPERATOR\_NAME      File: CLYBOURN      DOS File: CLYBOURN  
Date: 09/09/04 Time: 02:31:34  
Description:

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta VIA (dB)
47		3.1	-11.4	14.5
48		3.8	-11.6	15.4
49		3.0	-10.9	13.9
50		3.3	-10.6	13.9
51		2.4	-12.4	14.8
52		2.8	-12.1	14.6
53		3.0	-12.3	15.3
54		3.7	-11.2	14.9
55		4.6	-11.0	15.6
56		2.3	-9.3	11.6
57		3.3	-11.7	15.0
58		3.0	-11.9	14.8
59		2.1	-13.1	15.2
60		2.8	-11.7	14.5
61		3.2	-11.9	15.1
62		3.7	-11.3	15.0
63		3.4	-11.2	14.6
64		2.9	-12.0	14.9
65		3.1	-11.6	14.7
66		3.8	-11.9	15.7
67		2.8	-11.6	14.4
68		3.5	-10.6	14.1
69		2.7	-11.8	14.5
70		2.9	-11.8	14.7
71		2.5	-12.3	14.8
72		4.2	-10.4	14.6
73		2.1	-13.5	15.6
74		2.6	-12.1	14.7
75		2.2	-12.9	15.1
76		2.0	-12.9	14.9
77		1.8	-13.1	14.9
78		1.8	-12.5	14.3
95		10.5	-4.7	15.2
96		10.5	-3.2	13.7
97		10.4	-5.6	16.0
99		9.8	-5.7	15.5

TP-17

LIMIT CHECK	Limit	Actual	Pass
Min Video Carrier Level	0.0 dBmV	Ch 77 Video = 1.8	Pass
Max Delta Video Level	10.0 dB	Ch 95 and 77, Delta = 8.7	Pass
Min Delta VIA	10.0 dB	Ch 56 Delta VIA = 11.6	Pass
Max Delta VIA	17.0 dB	Ch 18 Delta VIA = 16.1	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 55 and 56, Delta = 2.3	Pass
Min Digital Level	-7.0 dBmV	No data	Pass
Max Digital Level	8.0 dBmV	No data	Pass
Conclusion:			PASS

Reviewed: *[Signature]*      Date: 9/27/04

Page 2





FCC Signal Quality Compliance Inspection  
of Charter Communications in the  
Cities of Burbank and Glendale, California

Krammer				Krammer				
Model: 1450		Serial #: 7413618		Model: 1450		Serial #: 7413618		
Operator: OPERATOR_NAME		File: MAGNOLIA		Operator: OPERATOR_NAME		File: MAGNOLIA		
Date: 09/09/04 Time: 03:04:38				Date: 09/09/04 Time: 03:04:38		Cal Date: 7/27/04		
Description:				Description:		DOS File: MAGNOLIA		
Location: NONE	AmpID: _			Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
Location Type: Undefined	Power Clp: IN			47		9.0	-5.5	14.5
Area: _	Feeder Maker Clp: 1			48		9.2	-5.1	14.3
Test Pkt Type: None	Trunk Term: NO			49		9.2	-5.2	14.4
Test Pkt Comp: 0.0	Voltage Setting: LOW			50		9.1	-4.7	13.8
AC Voltage: 0	DC Voltage (reg): 0.0			51		8.6	-6.2	14.8
				52		8.8	-5.9	14.7
				53		8.5	-6.6	15.1
				54		9.4	-4.9	14.3
				55		10.5	-5.2	15.7
				56		8.3	-3.1	11.4
				57		9.1	-5.7	14.8
				58		8.4	-6.9	15.3
				59		6.8	-6.0	14.8
				60		7.5	-7.2	14.7
				61		7.8	-6.9	14.7
				62		8.1	-6.6	14.7
				63		8.8	-5.8	14.6
				64		7.8	-7.1	14.9
				65		8.5	-5.8	14.3
				66		8.6	-6.3	14.9
				67		8.9	-5.7	14.6
				68		8.8	-4.8	13.6
				69		8.6	-5.8	14.4
				70		9.2	-5.3	14.5
				71		8.7	-6.4	15.1
				72		10.6	-4.5	15.1
				73		8.2	-7.1	15.3
				74		8.9	-5.9	14.8
				75		8.7	-6.5	15.2
				76		8.8	-6.5	15.3
				77		8.8	-6.2	15.0
				78		8.6	-6.0	14.6
				95		10.0	-4.7	14.7
				96		10.5	-3.6	14.1
				97		10.4	-5.3	15.7
				99		10.2	-4.8	15.0

  

LIMIT CHECK	Limit	Actual	Pass
Min Video Carrier Level	0.0 dBmV	Ch 59 Video = 6.8	Pass
Max Delta Video Level	10.0 dB	Ch 8 and 59, Delta = 4.1	Pass
Min Delta V/A	10.0 dB	Ch 56 Delta V/A = 11.4	Pass
Max Delta V/A	17.0 dB	Ch 11 Delta V/A = 15.8	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 72 and 73, Delta = 2.4	Pass
Min Digital Level	-7.0 dBmV	No data	Pass
Max Digital Level	8.0 dBmV	No data	Pass
Conclusion:			PASS

  

Reviewed: Steve Allen Date: 9/27/04

TP-19





FCC Signal Quality Compliance Inspection  
of Charter Communications in the  
Cities of Burbank and Glendale, California

AutoTest Report

Krammer

ACTERNA

Model: 1400  
Operator: OPERATOR\_NAME  
Date: 06/09/04 Time: 03:37:37  
Description:

Serial # 7413018  
File: LMA

Location: NONE  
Location Type: Undefined  
Area:  
Test Pnt Type: None  
Test Pnt Comp: 0.0  
AC Voltage: 0

AmpID  
Power Clg: IN  
Feeder Make: NC  
Turn Term: NC  
Voltage Setting: LOW  
DC Voltage (v): 0.0

Chan	Label	Volo (dBmV)	Audio (dBmV)	Delta V/A (dB)
2		5.7	-8.8	14.5
3		6.3	-7.9	14.2
4		6.1	-8.7	14.8
5		6.9	-7.6	14.5
6		6.4	-8.3	14.7
7		6.6	-8.3	14.9
8		6.0	-9.1	15.1
9		6.1	-9.2	15.3
10		4.8	-9.7	14.5
11		5.6	-9.2	14.8
12		5.7	-9.6	15.3
13		5.6	-9.7	15.3
14		6.1	-7.8	13.9
15		6.1	-9.1	15.2
16		6.4	-7.4	13.8
17		6.7	-8.1	14.8
18		7.3	-7.9	15.2
19		6.8	-8.3	15.1
20		7.1	-7.2	14.3
21		6.4	-8.4	14.6
22		6.1	-9.4	15.5
23		5.7	-9.0	14.7
24		5.3	-9.4	14.7
25		4.8	-10.2	15.0
26		4.8	-9.6	14.4
27		4.2	-10.6	14.8
28		4.7	-10.2	14.9
29		5.3	-9.1	14.4
30		4.9	-9.7	14.6
31		5.2	-9.3	14.5
32		4.9	-9.9	14.8
33		5.5	-9.2	14.7
34		5.3	-9.2	14.5
35		5.5	-9.1	14.6
36		5.2	-9.4	14.6
37		5.8	-9.7	15.5
38		5.3	-9.2	14.5
39		6.0	-8.9	14.9
40		5.6	-9.3	14.9
41		5.9	-8.8	14.7
42		6.3	-9.2	15.5
43		6.2	-7.9	14.1
44		5.8	-8.6	14.4
45		6.0	-8.3	14.3
46		5.1	-9.2	14.3

Krammer

ACTERNA

Model: 1400  
Operator: OPERATOR\_NAME  
Date: 06/09/04 Time: 03:37:37  
Description:

Serial # 7413018  
File: LMA

Cal Date: 7/27/04  
DOS File: LMA

Chan	Label	Volo (dBmV)	Audio (dBmV)	Delta V/A (dB)
47		5.8	-9.1	14.9
48		5.3	-9.5	14.8
49		5.4	-8.7	14.1
50		4.9	-9.0	13.9
51		3.6	-11.2	14.8
52		4.2	-10.8	15.0
53		3.9	-10.9	14.8
54		6.1	-8.6	14.7
55		6.3	-9.0	15.3
56		3.9	-7.2	11.1
57		5.0	-9.6	14.6
58		4.8	-9.9	14.7
59		4.3	-10.8	15.1
60		5.1	-9.3	14.4
61		5.5	-9.1	14.6
62		6.0	-9.2	15.2
63		7.0	-8.1	15.1
64		5.9	-9.4	15.3
65		6.0	-9.0	15.0
66		6.3	-8.6	15.1
67		6.1	-8.6	14.7
68		6.5	-7.4	13.9
69		6.4	-8.2	14.6
70		6.7	-8.2	14.9
71		6.1	-9.0	15.1
72		7.6	-6.6	14.2
73		5.7	-9.9	15.6
74		6.8	-8.1	14.9
75		6.0	-9.3	15.3
76		6.2	-8.7	14.9
77		6.2	-9.0	15.2
78		6.0	-8.5	14.5
95		7.7	-7.1	14.8
96		7.5	-6.9	14.4
97		7.6	-8.1	15.7
99		7.0	-8.4	15.4

TP.19

LIMIT CHECK	Limit	Actual	
Min Video Carrier Level	0.0 dBmV	Ch 51 Video = 3.6	Pass
Max Delta Video Level	10.0 dB	Ch 95 and 51, Delta = 4.1	Pass
Min Delta V/A	10.0 dB	Ch 56 Delta V/A = 11.1	Pass
Max Delta V/A	17.0 dB	Ch 97 Delta V/A = 15.7	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 55 and 56, Delta = 2.4	Pass
Min Digital Level	-7.0 dBmV	No data	Pass
Max Digital Level	8.0 dBmV	No data	Pass
Conclusion:			PASS

Reviewed: *[Signature]* Date: 9/21/04

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FCC Signal Quality Compliance Inspection  
of Charter Communications in the  
Cities of Burbank and Glendale, California

ACTERNA

Model: 1450  
Operator: OPERATOR\_NAME  
Date: 09/09/04 Time: 04:19:11  
Description:

Serial #: 7413618  
File: TOLUCA\_LAKE

Location: NONE  
Location Type: Undefined  
Area:  
Test Pkt Type: None  
Test Pkt Comp: 0.0  
AC Voltage: 0

AmpID:  
Power Clg: IN  
Feeder Maker Clg: 1  
Trunk Term: NO  
Voltage Setting: LOW  
DC Voltage (vpp): 0.0

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
2		5.1	-10.3	15.4
3		4.4	-9.7	14.1
4		4.8	-9.7	14.6
5		5.4	-8.6	14.0
6		5.3	-8.5	14.8
7		4.5	-10.3	14.8
8		4.8	-10.0	14.8
9		4.8	-10.6	15.4
10		4.0	-11.1	15.1
11		4.7	-10.2	14.9
12		4.1	-10.8	14.9
13		4.6	-10.3	14.9
14		4.8	-9.2	14.0
15		4.5	-11.4	15.9
16		4.6	-9.9	14.5
17		4.5	-9.7	14.2
18		4.9	-10.4	15.3
19		4.6	-10.0	14.6
20		4.7	-9.1	13.8
21		4.4	-10.8	15.2
22		4.2	-10.4	14.6
23		4.7	-9.9	14.6
24		4.7	-10.1	14.8
25		3.5	-11.1	14.6
26		4.4	-9.7	14.1
27		3.7	-11.0	14.7
28		4.0	-10.9	14.9
29		4.6	-8.4	14.0
30		4.0	-10.6	14.6
31		4.0	-10.4	14.4
32		3.9	-11.2	15.1
33		4.1	-10.3	14.4
34		3.6	-10.8	14.4
35		3.8	-10.5	14.3
36		3.4	-10.8	14.2
37		3.7	-11.5	15.2
38		3.3	-11.0	14.3
39		3.3	-11.5	14.8
40		3.6	-11.0	14.6
41		3.2	-11.5	14.7
42		4.2	-11.2	15.4
43		2.7	-11.4	14.1
44		3.4	-11.1	14.5
45		3.0	-11.4	14.4
46		3.2	-11.9	15.1

ACTERNA

Model: 1450  
Operator: OPERATOR\_NAME  
Date: 09/09/04 Time: 04:19:11  
Description:

Serial #: 7413618  
File: TOLUCA\_LAKE

Cal Date: 7/27/04  
DOS File: TOLUCA\_LAKE

Chan	Label	Video (dBmV)	Audio (dBmV)	Delta V/A (dB)
47		2.9	-11.8	14.7
48		2.7	-12.0	14.7
49		2.6	-11.5	14.3
50		2.6	-11.2	13.8
51		2.9	-11.7	14.6
52		2.4	-12.5	14.9
53		2.8	-12.1	14.9
54		3.3	-11.4	14.7
55		3.4	-11.7	15.1
56		3.4	-11.7	15.1
57		3.3	-11.7	15.0
58		3.2	-11.5	14.7
59		3.4	-11.8	15.2
60		3.7	-11.1	14.8
61		3.4	-11.9	15.3
62		3.9	-11.3	15.2
63		3.0	-11.7	14.7
64		3.9	-11.3	15.2
65		3.8	-11.2	15.0
66		3.7	-11.3	15.0
67		3.5	-10.8	14.1
68		4.1	-11.0	15.1
69		3.6	-10.9	14.5
70		3.9	-10.8	14.7
71		3.8	-11.0	14.8
72		4.1	-10.3	14.4
73		3.5	-11.9	15.4
74		3.0	-11.8	14.8
75		3.3	-11.8	14.9
76		3.4	-11.5	14.9
77		3.4	-11.0	14.4
78		3.1	-11.2	14.3
96		6.0	-8.5	14.5
96		5.9	-7.9	13.8
97		6.2	-9.4	15.6
99		5.5	-9.8	15.3

TP-20

LIMIT CHECK	Limit	Actual	Pass
Min Video Carrier Level	0.0 dBmV	Ch 52 Video = 2.4	Pass
Max Delta Video Level	10.0 dB	Ch 97 and 52, Delta = 3.8	Pass
Min Delta V/A	10.0 dB	Ch 96 Delta V/A = 13.6	Pass
Max Delta V/A	17.0 dB	Ch 15 Delta V/A = 15.9	Pass
Max Delta Adjacent Chan	3.0 dB	Ch 42 and 43, Delta = 1.5	Pass
Min Digital Level	-7.0 dBmV	No data	Pass
Max Digital Level	8.0 dBmV	No data	Pass

Conclusion: PASS

Reviewed: *[Signature]* Date: 9/27/04

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## Attachment A3: About the Inspectors

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STATEMENT OF QUALIFICATIONS AND EXPERIENCE  
JONATHAN L. KRAMER, FIAE

- Licensed by the Federal Communications Commission (General Radiotelephone Operator License PG-11-35289, with Ship Radar Endorsement) (Previously licensed as a Second Class Radio Telephone Operator, September 1975; First Class Radio Telephone Operator, November 1977; General Radiotelephone Operator License, June 1987)
- Licensed by the Federal Communications Commission as an amateur radio operator since November 1970; currently licensed as an Advanced Class operator (KD6MR)
- Former National Board of Directors member, National Association of Telecommunications Officers and Advisors (NATOA), an affiliate of the National League of Cities (Terms: 1997-2000, 1992-1994)
- Former Co-chair of National Technical Standards Committee appointed by NATOA, National League of Cities, and US Conference of Mayors to develop the national technical standards for cable television systems adopted by the FCC in February 1992
- NATOA's 1997 Member of the Year (honored for information delivery to NATOA members)



- NATOA's 1991 Member of the Year (honored for achievements in developing and negotiating national cable television technical standards)
- Former Co-chair of National Technical Standards committee appointed by NATOA, National League of Cities, and US Conference of Mayors to develop the national technical standardized testing manual to determine compliance with the FCC rules
- Senior Member of Society of Cable Telecommunications Engineers (Senior Member since April 1993; Member since 1981)
- Fellow, Institute for the Advancement of Engineering (FIAE) (Nominated by Institute of Electrical and Electronics Engineers)
- Member, International Right of Way Association
- Witness before the FCC in Cable TV re-regulation hearings, March 1990, representing NATOA, et al
- Right-of-Way engineering and management expertise related to telecommunications networks and radio communications siting
- Testifying expert witness in federal and state court cases
- Technology speaker at every NATOA National Conference from 1988- 2000 and 2002-2005; Technology speaker at many regional and local NATOA meetings
- Communications technology speaker at Society of Cable Telecommunications Engineers conferences and cable industry conferences
- Published author of book and magazine articles on communications technology, Plant safety, construction, and administration
- Cable system engineering and technical management experience six years before forming firm; Chief Technician, Technical Manager, Regional Engineer.
- Former Field Engineering Representative for Motorola Communications and Electronics, Area F Program Management team — Areas of experience include microwave radio; baseband RF and audio; digital signaling; UHF and VHF two-way radio (including high stability Simulcast® radio operations); telephony; and command and control communications.



Kramer.Firm has served over 400 local governments or local government groups since 1984.

Federal Agencies National Associations States

Federal Communications Commission  
U.S. Department of Justice  
National Association of Telecommunications Officers and Advisors  
Society of Cable Telecommunications Engineers  
United States Attorney; Los Angeles  
United States Army; Ft. Irwin, CA  
U.S. Marine Corps; Twentynine Palms, CA  
U.S. Navy; Postgraduate School, Monterey, CA  
United States Conference of Mayors  
National Association of Counties  
National League of Cities  
State of Michigan Public Utilities Commission  
State of Connecticut Department of Public Utility Control

Universities, Colleges, School Districts

University of Alabama  
Pepperdine University  
Orange Coast College  
Rancho Santiago College  
Centralia School District  
Oxnard Union School District

Selected Litigation

Sprint v. City of La Canada (Expert for City in two cases)  
AT&T Wireless v. City of San Diego (Expert for City)  
Nextel v. City of San Diego (Expert for City)  
AT&T Wireless v. City of Carlsbad (Expert for City)  
Level 3 Communications v. City of Santee (Expert for City)  
Charter v. City of Thousand Oaks (Expert for City)  
GTE MobileNet v. City and County of San Francisco (Expert for City and County)  
Playboy Enterprises v. US (Expert for US DOJ and FCC)  
US Cellular v. Peoria County (Expert for Peoria County)  
Jones Intercable v. Chula Vista (Expert for City of Chula Vista)  
West Covina v. Charter Cable (Expert for City of West Covina)  
Sierra East Television v. Westar Cable (Expert for Sierra East Television)  
Booth American v. US (Expert for US DOJ)  
D. B. Cable v. Kalma Busk (Expert for Kalma Busk)



Selected Lectures

International Right of Way Association

Virginia Association of Cities

NATOA National Conference (Every conference since 1988)

NATOA Southern Virginia and Nevada Chapter (Multiple Presentations)

NATOA Illinois Chapter (Multiple presentations)

NATOA Minnesota Chapter

NATOA Texas Chapter

Society of Cable Telecommunications Engineers National Engineering Conference

Society of Cable Telecommunications Engineers (Multiple Chapters)

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STATEMENT OF QUALIFICATIONS AND EXPERIENCE  
STEVEN C. ALLEN - BCE, BTCS

7/01 to Present Kramer.Firm, Inc. Senior Broadband Technologist

Broadband and cable system inspection specialist; RF technology. Reports directly to and under the supervision of Jonathan L. Kramer, Kramer.Firm's Principal.

5/00 to 7/01 Cisco Systems, Inc Consulting System Engineer (CSE) Cable and Wireless Business Unit.

Provided technical expertise and industry knowledge to the development and sale of broadband cable modems, Cable Modem Termination Systems (CMTS), video products, and wireless Internet products.

Prepared and delivered focused product training and presentations to internal work groups and Cisco customers. Assisted in the development of specifications and features of next generation Cisco products and worked with customer account teams on product evaluations or deployments.

Worked with local Account Managers and System Engineers to resolve specific operational problems at customer locations. Providing feedback to manufacturing or product development on requirements or improvements to products. Provided training to customer staff on Cisco products. Provided RF/HFC experience and industry knowledge to Cisco sales and marketing departments to better acquaint them with the broadband cable industry. (Industry point of view). Leveraged extensive vendor contacts to provide information and possible solutions to specific product development requirements.



11/98 to 5/2000      TVC Communications, Inc      Western Regional Sales Engineer:

Responsible for technical sales and training support to major Broadband providers including CATV, Telco, Manufacturing, Broadcast and Satellite networks in California and Nevada. Sales Engineer for 2nd largest broadband distributor in USA. Specializing in complex headend and outside Plant products. Primary product lines include Tektronix analog and digital test equipment, Motorola Optical and HFC Distribution equipment, fiber optic splicing and termination systems, including enclosures, fusion splicers, fiber management systems. Work closely with regional account managers to assist in product specifications, RFP's, training related needs and hands-on training for customer staff. Assist in identification of system needs, and design solutions based on offered products and services.

12/95 to 11/98      Roseville Telephone Company      Broadband Systems Engineer:

Working in a combined Broadband/Telco environment, helped implement one of the first experiments in Fiber to the Curb (FTTC) architecture in Del Webb's Sun City development in Roseville, California. Responsible for design and implementation of new centralized network powering system, HFC design review, network monitoring system for system power, new product and technology evaluations, staff training, and Broadband overviews for management.

Directly involved in mapping and conducting signal surveys in the Sacramento area for wireless PCS coverage. I worked with several right-of-way contractors and Lucent, to secure cellular and co-locate sites for network build-out.

12/86-12/95      Jones Intercable, Inc.      System Engineering Manager:

Responsible for all aspects of inside and outside Plant for cable television system serving Roseville, California. Supervised staff of 15 installers, technicians and construction personnel. Designed and implemented new office building telecommunications services and placement. Designed and implemented new CATV headend encompassing towers, satellite receiving dishes, central grounding network, and data services. Coordinated cutover from old headend and services to all new facilities. Designed and installed first fiber optic CATV network in the Sacramento area employing a Cable Area Network design devised by Jones Intercable. Worked with other departments to insure that system goals and business plans were met. Administered OSHA/CALOSHA Hazmat/Hazcom program. Provided temporary engineering support and management supervision to related Jones Intercable business units in other areas of Northern Virginia.



1/85 to 12/86      Viacom Cablevision Headquarters      Corporate Staff Engineer:

Responsible for technical support for home terminal products and converter repair facilities at Viacom systems in USA. Provided staff assistance at system level to resolve technical difficulties beyond scope of local personnel. Worked with product vendors to develop solutions to technical problems. Assisted corporate purchasing department in developing cost effective alternatives to vendor provided services or materials.

10/82 to 1/85      Viacom Cablevision- North Bay Region      Regional Systems Engineer:

Responsible for all headends, microwave systems, and FCC liaison for systems in North Bay region including San Rafael, Petaluma, Napa, Pinole, Crockett, and Rodeo. Supervised and supported a crew of 4 headend technicians in maintaining headend equipment including over-the-air processors, FM, AML microwave, FM terrestrial microwave, Satellite TVRO and Fiber optic links. Also responsible for overseeing Viacom Plant training program and coordinating activities of regional Plant trainer. Additional responsibilities included Regional Engineer for the Bay Area Interconnect, a microwave trunk system delivering advertiser supported satellite programming to 500 thousand cable subscribers in the greater San Francisco Bay area.

6/79 to 10/82      Viacom Cablevision      Chief Technician:

Responsible for operation of system Plant in Oroville, Paradise, Colusa, Gridley and Biggs, California. Supervise a crew of 4 system technicians. Maintain 6 headends with AML microwave transmitters and receivers, satellite TVRO, FM Microwave, processors, antennas and associated equipment.

1/79-6/79      Nor-Cal Cablevision      System Technician:

Responsible for system maintenance on distribution and house drop level. Perform routine service calls in response to customer requests.

2/78 to 12/78      Cal-Com Systems      Sales Engineer:

Design and market mobile communications systems for RCA Mobile Communications Division in the San Francisco Bay Area.



1/76 to 1/78 Concord TV Cable (A unit of Western Communications) Construction Technician:

Duties involved construction and proof of new overhead and underground cable Plant. Construction leader during complete rebuild of Concord system in 1977. Promoted to Field Technical Supervisor for rebuild. Also involved in production work for local origination department.

6/75 to 1/76 United States Air Force Reserve Basic Training

6/73 to 6/75 State TV Cable (A unit of Western Communications) Construction Linemen:

Duties involved construction of new overhead and underground Plant. Construction lineman for complete electronics change out for CATV franchises in Willows, Corning and Orland, California.

6/70 to 6/73 Concord TV Cable (A unit of Western Communications) Installer:

Education:

9/73 - 5/75 California State University Chico, Chico, California BA degree, Telecommunications

9/71 - 5/72 San Diego State University, San Diego, California Undergraduate work, Broadcasting

9/69 - 6/71 Diablo Valley College, Pleasant Hill, California Associate of Arts Degree, General Education emphasis on Broadcasting

Professional Associations:

Society of Cable Telecommunications Engineers (SCTE) 1979 to Present

1991 National Member of the Year

Elevated to Senior Member in 1991

SCTE Offices held:

SCTE Region I National Director (CA, NV, HI)

SCTE Western Vice Chairman

SCTE Executive Committee member

Vice President, Sierra Chapter, SCTE serving Sacramento

Member, SCTE National Planning Committee

Member, SCTE BCT/E Industry Certification Committee.



Chairman, SCTE Northern California Vendors Day

National Cable Television Association

Member, Cable Pioneers, Class of 1993

Credentials:

FCC General Class Radiotelephone License; prior-licensed as a Second Class General Radiotelephone License (continuously licensed since 1980)  
SCTE Broadband Certified Engineer (BCE); continually certified since 1988  
SCTE Certified Broadband Telecom Center Specialist, BTCS. Since 2002  
FCC Amateur Radio Licensee (Call sign: KC6VCC; continuously licensed since 1991)

Military Service: 1975-1981

USAF Reserve Law Enforcement Specialist. Chico  
Honor Graduate USAF Police Academy

USN Reserve Avionics Technician. Alameda, California  
Honorably discharged May 1981

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