

COMMENTS FROM SITE R3

Site R3 Post Office (Bladensburg Road, Washington DC)

Date: September 3, 1999

Weather Conditions: Cloudy; light wind; Temp 75°

Comments: Site located behind the repeater, no signal expected or detected.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Post Office / Bladensburg Rd

Rx Site No.

R3

p1

Set:

1/1

Re: Rx Condx Ref. No.

1

Date / Time:

09/03/99 10:54 EDT

Re: Tx Condx Ref. No.

1

Operator:

Adura

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename —

(1) NP Signal – NPTx ON: *See notes.*

		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

(2) DBS Signals – NPTx OFF: (Do also ssp data on page 2).

Sat 1		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

Sat 2		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

Sat 3		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

Sat 4		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

(3) DBS Signals – NPTx ON: (Do also ssp data on page 2).

Sat 1		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

Sat 2		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

Sat 3		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

Sat 4		Ant:			
Power (Px)		TV Pix		Plot ID	File Rec

(4) NPTx OFF.

Northpoint Technology – DBS Compatibililty Test – Washington DC Area

Rx Site Data Log

Rx Site No. R3 p2
 Set: 111

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-											Avg:	
Sat 3	T-											Avg:	
Sat 4	T-											Avg:	

(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-											Avg:	
Sat 3	T-											Avg:	
Sat 4	T-											Avg:	

Legend // Comments:

NPTx – Northpoint Transmitter. *The NPTx was not received at all at this site.*

Note - This site is behind the repeater on Bladensburg Rd. No NP signal is seen on the SA. There is a peak observed on the DBS Tweaker box at about the correct location, but at a high gain; and this is probably mostly broad band noise.

This log is to document the absence of signal at this site. No sat data was taken.

Northpoint Technology - DBS Compatibility Test - Washington DC Area

Rx Site Location Log

Rx Site No. R3 p1
Set: 1/

Site Name:

Date / Time:

9 / 3 / 99 10:52 EDT

Post Office, Bladensburg

Operator:

Jonathan

GPS Receiver Reading at Site:

Lat: 38° 55.734'

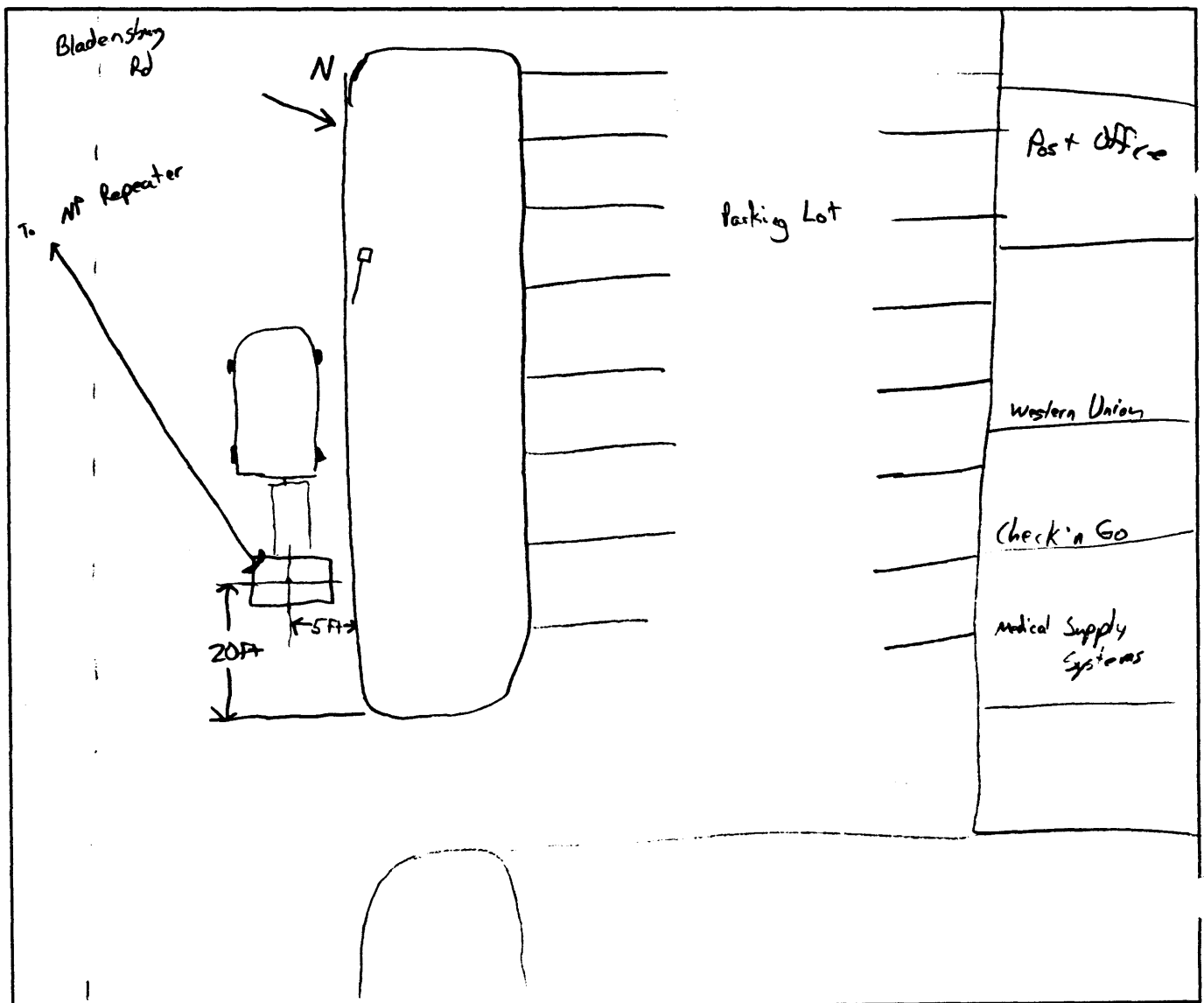
Time Read 14:57:08 ^{GMT} EDT

Lon: 76° 57.565'

Elev: _____

Weather: Cloudy - 65%, light wind, 75°

Map Sketch (show street reference and local benchmark features):



COMMENTS FROM SITE R1

Site R1 7-Eleven (Bladensburg Road, Washington DC)

Date: September 2, 1999

Weather Conditions: Partly cloudy; Temp 80-85°

Comments:

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

7-Eleven Store on
Bladensburg rd.

Rx Site No. R1 p1

Set: 2 / 1

Re: Rx Condx Ref. No. 1

Date / Time: 09/02/99 13:50 EDT

Re: Tx Condx Ref. No. 1

Operator: Aduro

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename —

(1) NP Signal – NPTx ON:

	NP	Ant: DBS 1		Plot ID	R1-1	File Rec	—
Power (Px)	-41.17dB	TV Pix	OK				

(2) DBS Signals – NPTx OFF: (Do also ssp data on page 2).

Sat 1		Ant:		Plot ID		File Rec	
Power (Px)		TV Pix					

Sat 2	D TV	Ant: NP3		Plot ID	R1-2b	File Rec	—
Power (Px)	-66.50dB	TV Pix					

Sat 3	ES (61.5)	Ant: NP2		Plot ID	R1-2c	File Rec	—
Power (Px)	-65.50dB	TV Pix					

Sat 4	ES (119)	Ant: NP4		Plot ID	R1-2d	File Rec	—
Power (Px)	-66.67dB	TV Pix					

(3) DBS Signals – NPTx ON: (Do also ssp data on page 2).

Sat 1		Ant:		Plot ID		File Rec	
Power (Px)		TV Pix					

Sat 2	D TV	Ant: NP3		Plot ID	R1-3b	File Rec	—
Power (Px)	-66.67dB	TV Pix					

Sat 3	ES (61.5)	Ant: NP2		Plot ID	R1-3c	File Rec	—
Power (Px)	-65.34dB	TV Pix					

Sat 4	ES (119)	Ant: NP3		Plot ID	R1-3d	File Rec	—
Power (Px)	-66.50dB	TV Pix					

(4) NPTx OFF.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Rx Site No. R1 p2
 Set: 21

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-											Avg:		
Sat 2	T-18	78	81	80	81	79	83	81	80	80	81	Avg:	80.4	*
Sat 3	T-18	96	96	96	96	96	97	97	96	96	96	Avg:	96.2	
Sat 4	T-18	88	88	89	88	88	89	88	88	89	89	Avg:	88.4	

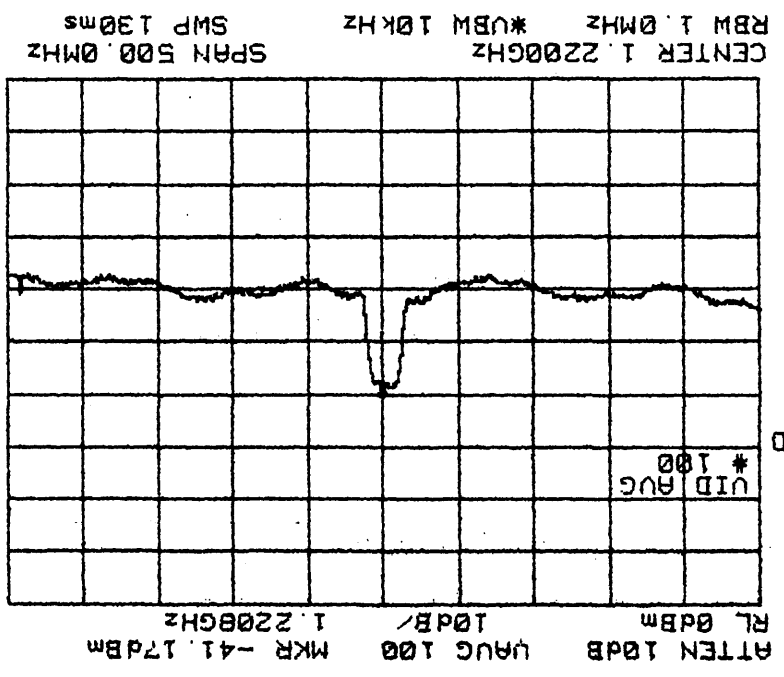
(3a) NPTx ON:

Sat 1	T-											Avg:		
Sat 2	T-18	79	77	78	78	80	82	78	79	80	80	Avg:	79.1	
Sat 3	T-18	95	93	94	94	95	94	94	95	94	94	Avg:	94.2	**
Sat 4	T-18	87	87	88	88	89	88	87	88	88	87	Avg:	87.7	

Legend // Comments:

NPTx – Northpoint Transmitter.

- ** – I noticed that the pointer seemed to show a shift of about 2 counts when the Tx came on, as I watched it on a subsequent OFF/ON transition. *DW*
- * – DTV signal, as seen on the "tweaker box" pointer, seems to vary a lot in strength. This has been commonly seen during prev. test site recordings, as well. *DW*



09/02/99
 RA-T
 Adura

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Condx/Event Log -- BER Data

(Re: Lucent / Newtec – NTC/2063/xx system.)

Rx Site No.

R1

p1

Set:

21

Re: Rx Condx Ref. No.

1

Date / Time:

9/2/99 14:05 EDT

Re: Tx Condx Ref. No.

1

Operator:

Qu

Data Measurements:

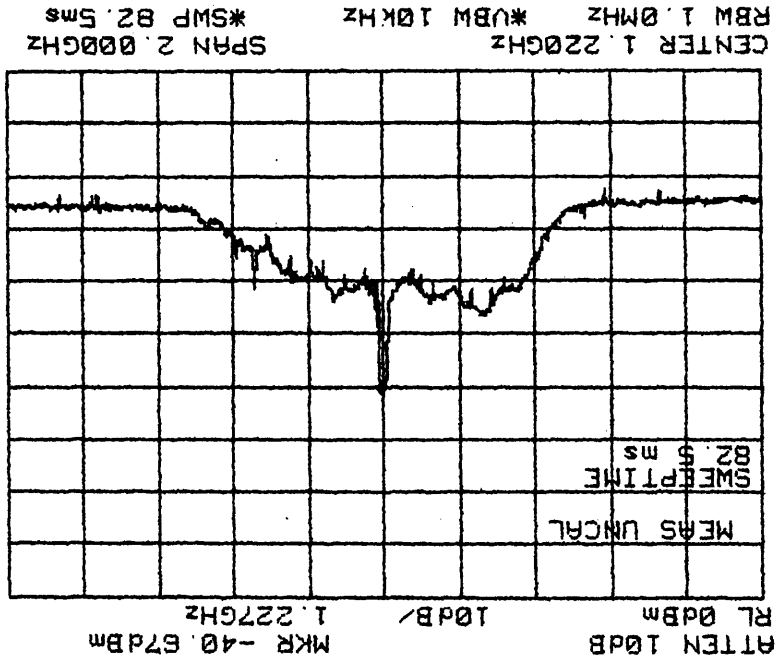
Site R1 is near Repeater on Bladensburg Road.

NPTx Carrier Freq. (GHz)	12.47942	NTC Filename	w9 9-2-99.dat
Satellite Monitored	ES119	Transponder	T-18

(See separate Rx Site Data Log for Signal Powers and Related Condx.)

NPTx → NPRp (Repeater)

#	Time – EDT	Condition / Event
	14:13	start logging valid data - NPTx OFF
	14:13:30	lg. Plane - high alt - (~10kft) Over head. → S
	14:15	wx PC (70-80%) PC & haze - 80-85°F.
	14:16	Construction work working on gutter at street intersection.
	14:18	~18 vehicles/min Total - Bladensburg Rd. ↑ ↓
	14:30	NPTx ON
	14:32	wx condx ~ same - maybe slight decrease in clouds.
	14:33	~19 veh./min
	14:42	wx condx ~ same
	14:49	Large construction vehicles on central Av. at corner.
	15:04:46	NPTx OFF
	15:07	wx ~ same
	15:08	Traffic - 26 veh/min.
	15:10	Large Plane ~10-15kft to west → S.
	15:20:30	Exit logger - stop logging data -



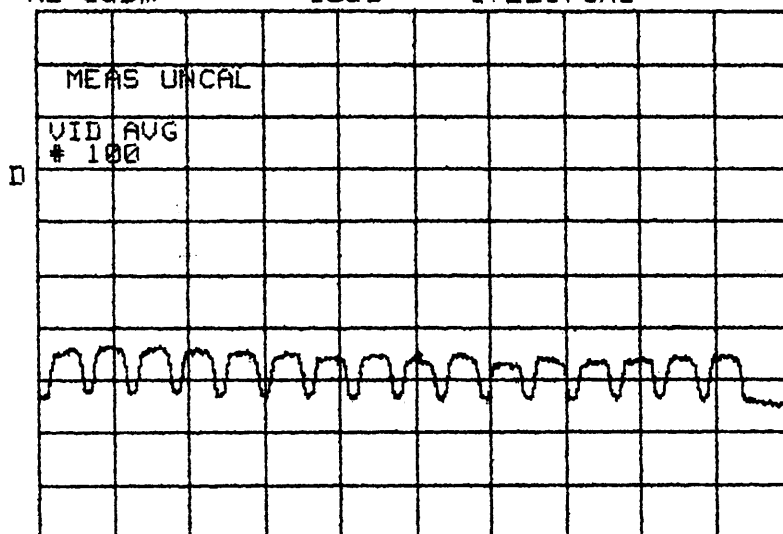
09/02/99
 PL-1 (span = 2.00 GHz)
 (8)

09/02/99

R1-2b

Adura

ATTEN 10dB UAUG 100 MKR -66.50dBm
RL 0dBm 10dB/ 1.2217GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz *SWP 82.5ms

COMMENTS FROM SITE 10A

Site 10A Federal Construction Site

Date: September 6, 1999

Weather Conditions: Heavy overcast; windy; 85°

Comments:

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Construction site

Rx Site No. 10A p1
 Set: _ / _

Re: Rx Condx Ref. No. 1

Date / Time: 09/06/99 12:30 EDT

Re: Tx Condx Ref. No. 1

Operator: Adura

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47 Disk Filename _

(1) NP Signal – NPTx ON:

*WX - HV OC
 ~85°F - windy*

	NPTx	Ant: DBS1			
Power (Px)	-49.60dB	TV Pix	OK	Plot ID	10A-1
				File Rec	_

(2) DBS Signals – NPTx OFF: (Do also ssp data on page 2).

Sat 1		Ant:			
Power (Px)		TV Pix		Plot ID	
				File Rec	

Sat 2	DTV	Ant: NP3			
Power (Px)	-67.83dB	TV Pix		Plot ID	10A-2b
				File Rec	_

Sat 3	ES (61.5)	Ant: NP2			
Power (Px)	-66.83dB	TV Pix		Plot ID	10A-2c
				File Rec	_

Sat 4	ES (119)	Ant: NP4			
Power (Px)	-68.33dB	TV Pix		Plot ID	10A-2d
				File Rec	_

(3) DBS Signals – NPTx ON: (Do also ssp data on page 2).

Sat 1		Ant:			
Power (Px)		TV Pix		Plot ID	
				File Rec	

Sat 2	DTV	Ant: NP3			
Power (Px)	-67.50dB	TV Pix		Plot ID	10A-3b
				File Rec	_

Sat 3	ES (61.5)	Ant: NP2			
Power (Px)	-66.50dB	TV Pix		Plot ID	10A-3c
				File Rec	_

Sat 4	ES (119)	Ant: NP4			
Power (Px)	-67.83dB	TV Pix		Plot ID	10A-3d
				File Rec	_

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Construction Site

Rx Site No.

10A

p2

Set:

1

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

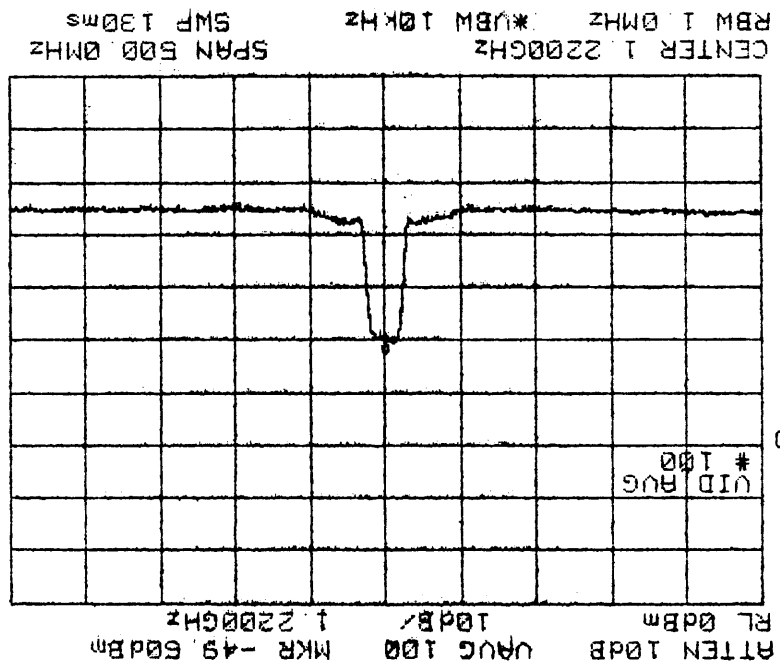
Sat 1	T-											Avg:	
Sat 2	T-18	78	80	80	83	86	81	80	80	81	81	Avg:	80.0
Sat 3	T-18	95	94	95	94	95	94	94	95	94	95	Avg:	94.5
Sat 4	T-18	87	87	87	88	87	87	87	88	88	88	Avg:	87.4

(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-18	80	77	78	81	83	81	79	86	88	83	Avg:	81.6
Sat 3	T-18	93	94	94	94	94	93	94	94	94	95	Avg:	93.9
Sat 4	T-18	88	88	86	87	87	87	87	87	87	87	Avg:	87.1

Legend // Comments:

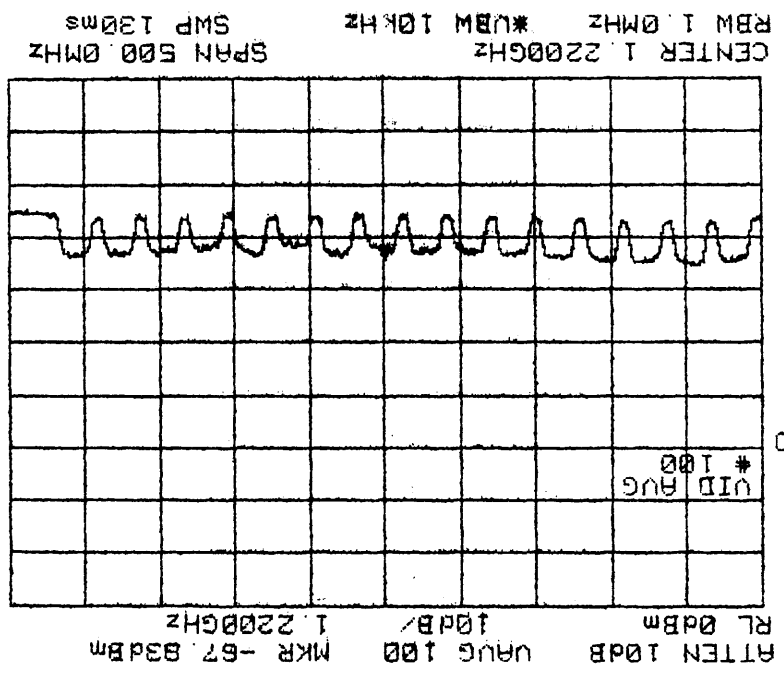
NPTx – Northpoint Transmitter.



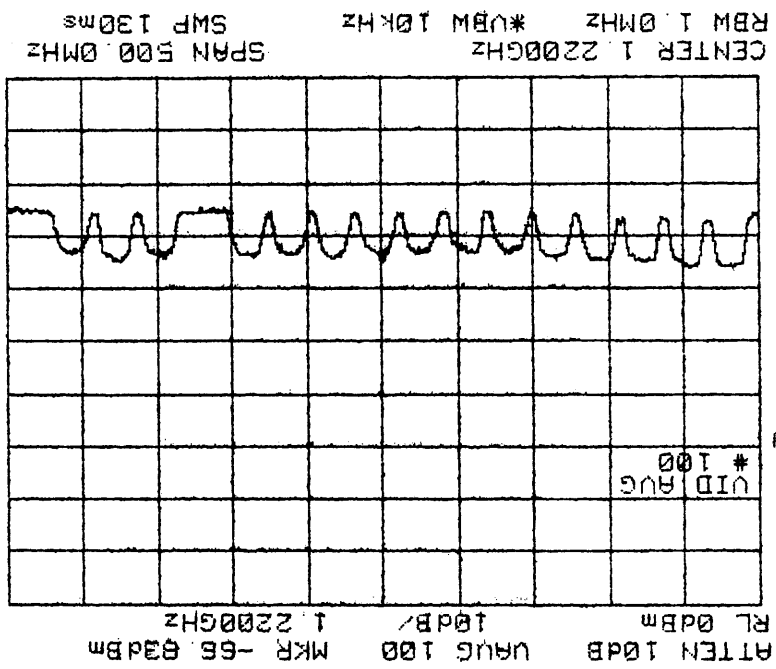
Adura

LOA-1

09/06/99



09/06/99
 104-26
 MWA



Ad a

104-20

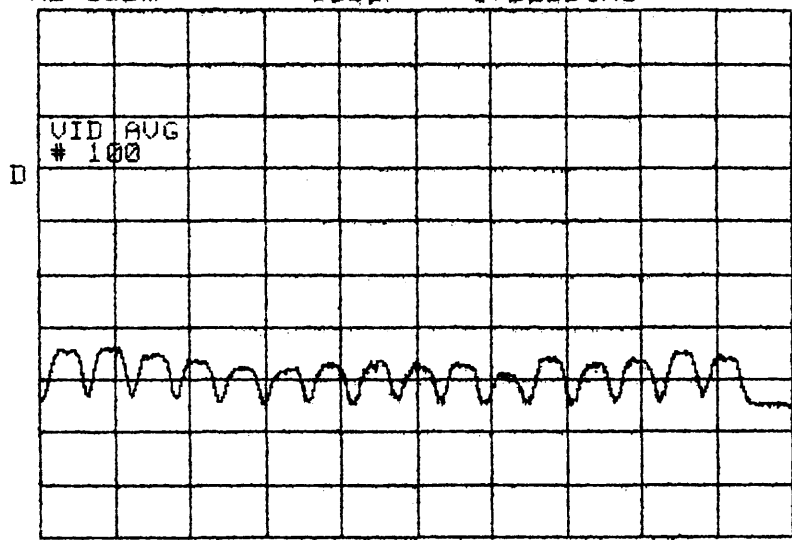
09/06/99

09/06/99

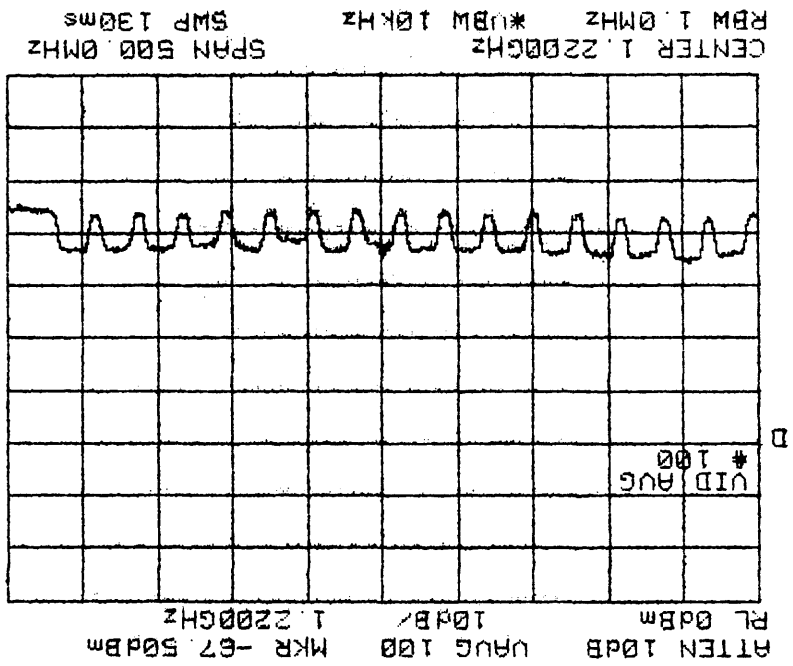
104-2d

Adura

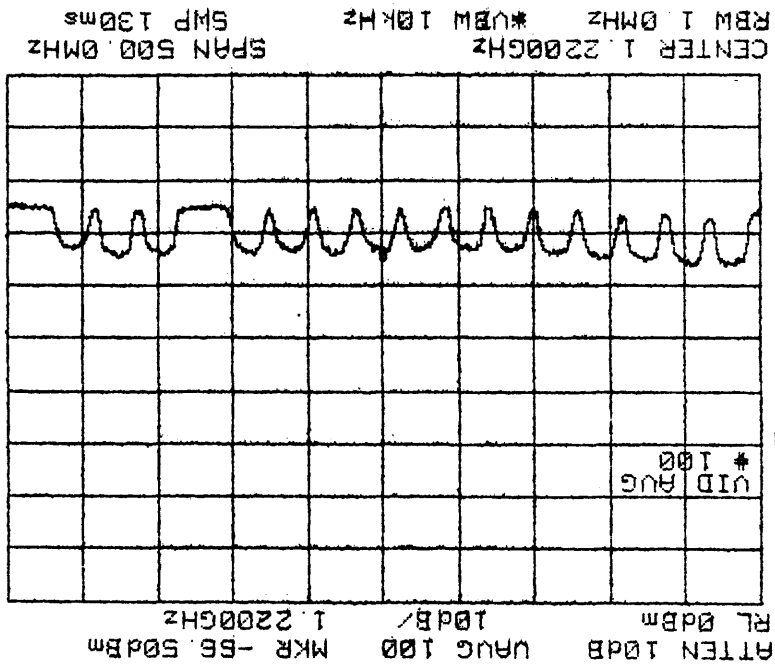
ATTEN 10dB VAVG 100 MKR -68.33dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms



09/02/99
 104-35
 104-35



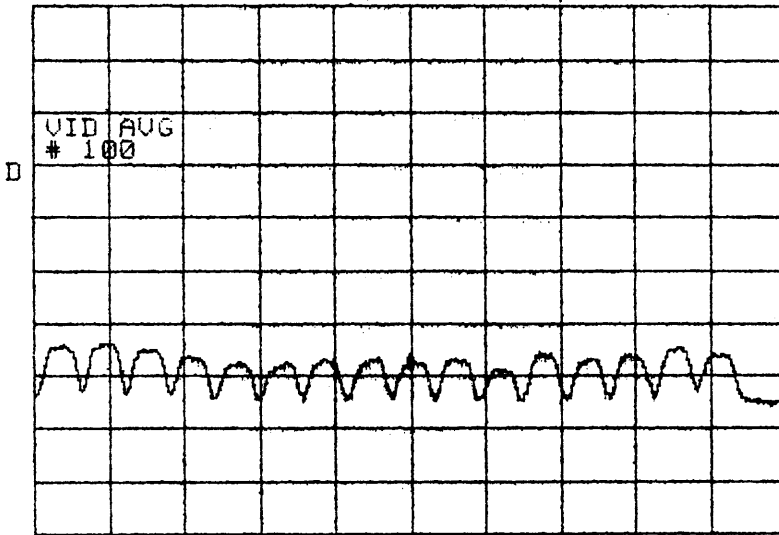
09/06/99
 104-3C
 4442

09/06/99

10A-39

Adura

ATTEN 10dB VAUG 100 MKR -67.83dBm
RL 0dBm 10dB/ 1.2200GHz



CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

9/6/99 Du

Site 10A - Construction Site

For ALL - Sym. Rate ZOMB -

BER Plots
VLSI / Site 10A / X.18

BER	ACC	LEVEL	NEST	Vertex	Gain	Spec Inv.	BER Pkt Name	Uncom. count	freq.
NP1	149	72	9	3/4	1	Y	NP1		1320
<10 ⁻⁹	115	90	42	3/8	2	N	DTV2		1220.979
OFF	176	90	40	3/8	1	N	DTV3		1221.749
DTV	<10 ⁻⁹	172	89	3/4	1	N	EC12		1222.499
OFF	170	85	31	3/4	1	N	EC11		1220.999
ES1 (61.5)	<10 ⁻⁹	176	92	3/4	1	N	EC22		1220.999
OFF	175	91	30	3/4	1	N	EC21		1220.999
OFF	<10 ⁻⁹	175	91	3/4	1	N	EC21		1220.999

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



COMMENTS FROM SITE 3

Site 3 Kennedy Center

Date: September 6, 1999

Weather Conditions: Heavy overcast; windy; Temp 85°

Comments:

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Kennedy Center

Rx Site No. 3 p1
Set: /

Re: Rx Condx Ref. No. 1 Date / Time: 9/06/99 : : EDT
Re: Tx Condx Ref. No. 1 Operator: Adina

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47 Disk Filename -

(1) NP Signal – NPTx ON:

WX; HV OC
~85°F - windy

		Ant:			
Power (Px)	-47.83 dB	TV Pix	OK	Plot ID	3-1
	-73.33 dB		Reduced Carrier ←		3-1b
				File Rec	-

(2) DBS Signals – NPTx OFF: (Do also ssp data on page 2).

Sat 1		Ant:			
Power (Px)		TV Pix		Plot ID	
				File Rec	
Sat 2	DTV	Ant:			
Power (Px)	-67.00 dB	TV Pix		Plot ID	3-2b
				File Rec	-
Sat 3	ES (61.5)	Ant:			
Power (Px)	-67.83 dB	TV Pix		Plot ID	3-2c
				File Rec	-
Sat 4	ES (119)	Ant:			
Power (Px)	-69.67 dB	TV Pix		Plot ID	3-2d
				File Rec	-

(3) DBS Signals – NPTx ON: (Do also ssp data on page 2).

Sat 1		Ant:			
Power (Px)		TV Pix		Plot ID	
				File Rec	
Sat 2	DTV	Ant:			
Power (Px)	67.00 dB	TV Pix		Plot ID	3-3b
				File Rec	-
Sat 3	ES (61.5)	Ant:			
Power (Px)	-67.83 dB	TV Pix		Plot ID	3-3c
				File Rec	-
Sat 4	ES (119)	Ant:			
Power (Px)	-69.33 dB	TV Pix		Plot ID	3-3d
				File Rec	-

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Kennedy Center

Rx Site No. 3

p2

Set: /

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

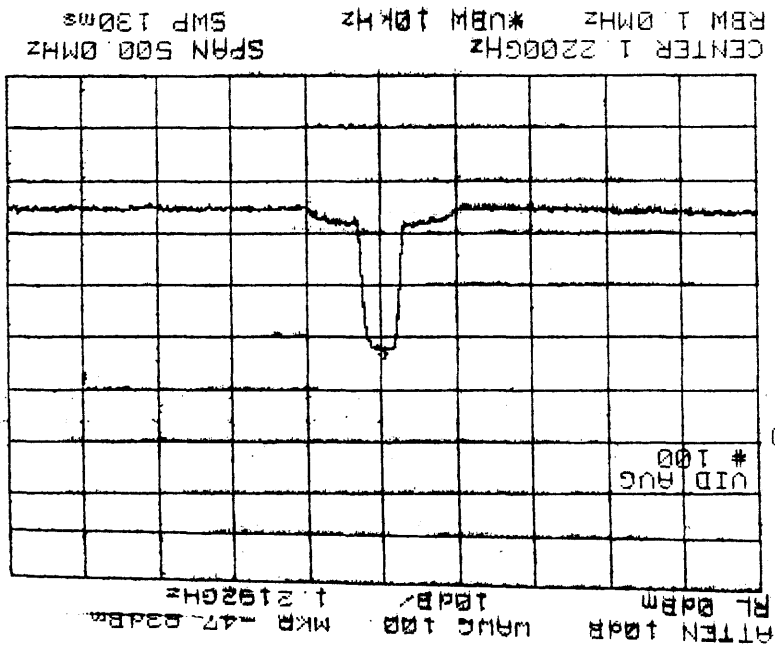
Sat 1	T-											Avg:	
Sat 2	T-18	83	83	83	84	83	82	82	82	83	84	Avg:	82.9
Sat 3	T-19	91	92	91	91	92	91	92	92	92	91	Avg:	91.5
Sat 4	T-19	85	85	84	85	85	84	84	84	83	84	Avg:	84.3

(3a) NPTx ON:

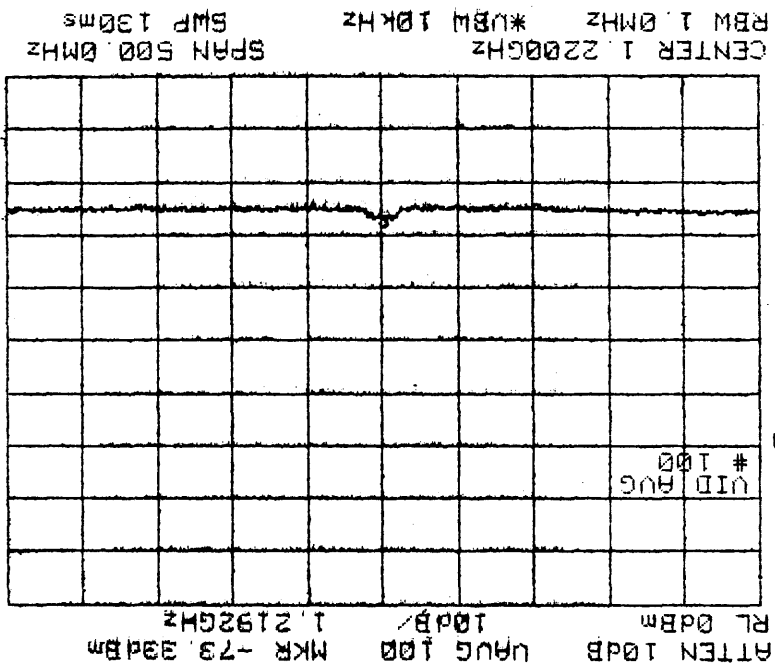
Sat 1	T-											Avg:	
Sat 2	T-18	81	79	81	82	81	83	83	82	82	80	Avg:	81.4
Sat 3	T-18	91	93	92	91	91	92	91	92	91	91	Avg:	91.5
Sat 4	T-18	83	84	84	83	84	83	82	82	83	84	Avg:	83.2

Legend // Comments:

NPTx – Northpoint Transmitter.



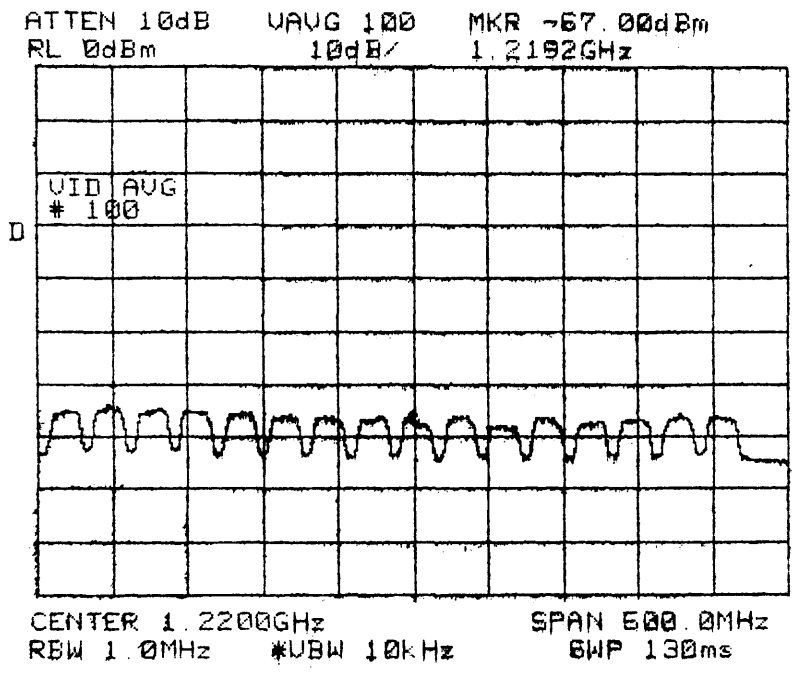
09/06/99
 3-1
 Alure



89106(59)
 3-16
 Adam

09/06/99
3-2b

Adura

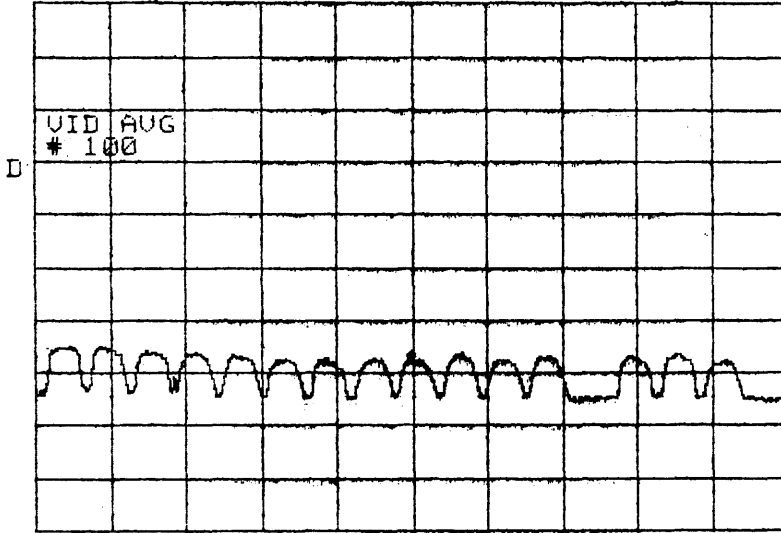


09/06/99

3-2C

Adura

ATTEN 10dB UAUG 100 MKR -67.83dBm
RL 0dBm 10dB/ 1.2192GHz

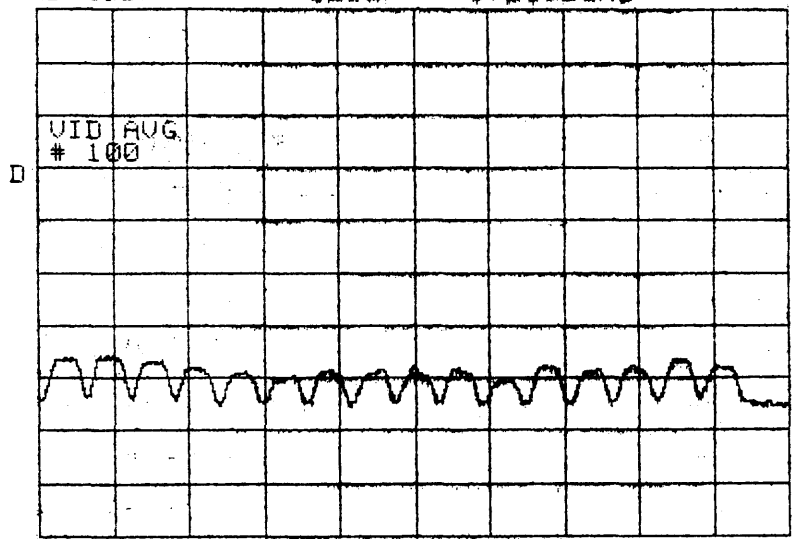


CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

09/06/99
3-2d

Adur

ATTEN 10dB UAUG 100 MKR -69.67dBm
RL 0dBm 10dB/ 1.2192GHz



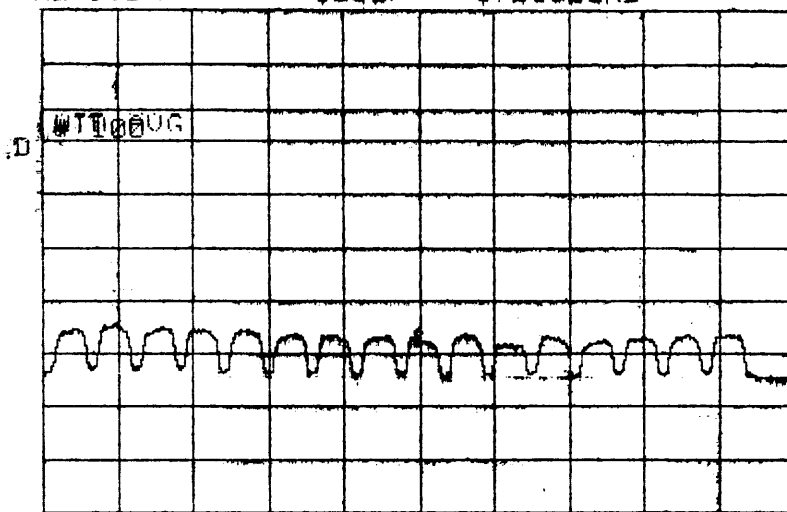
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

09/06/99

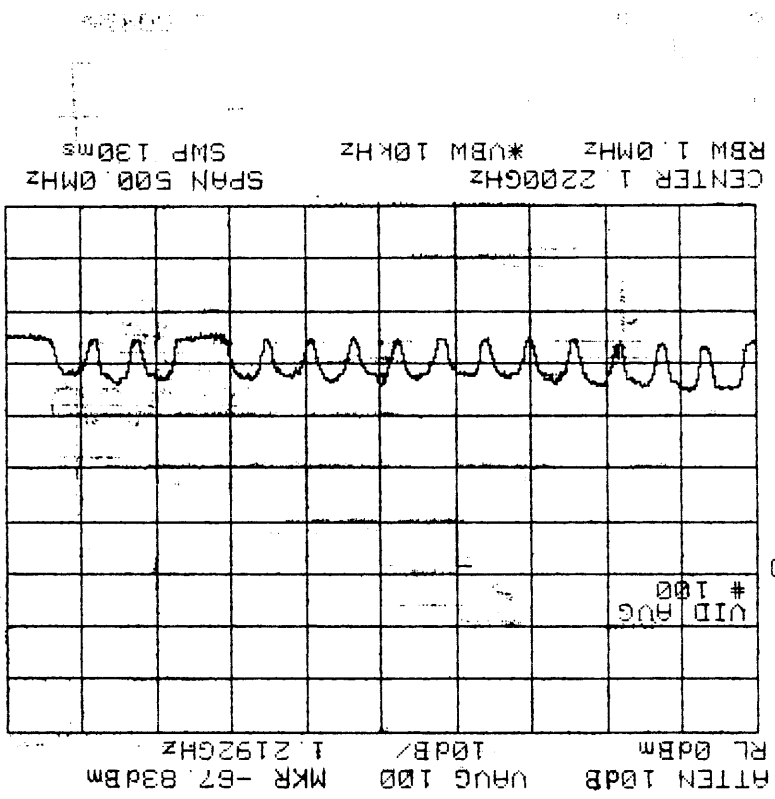
3-36

Adura

ATTEN 10dB VPAUG 100 MKR -67.00dBm
RL 0dBm 10dB/ 1.2192GHz

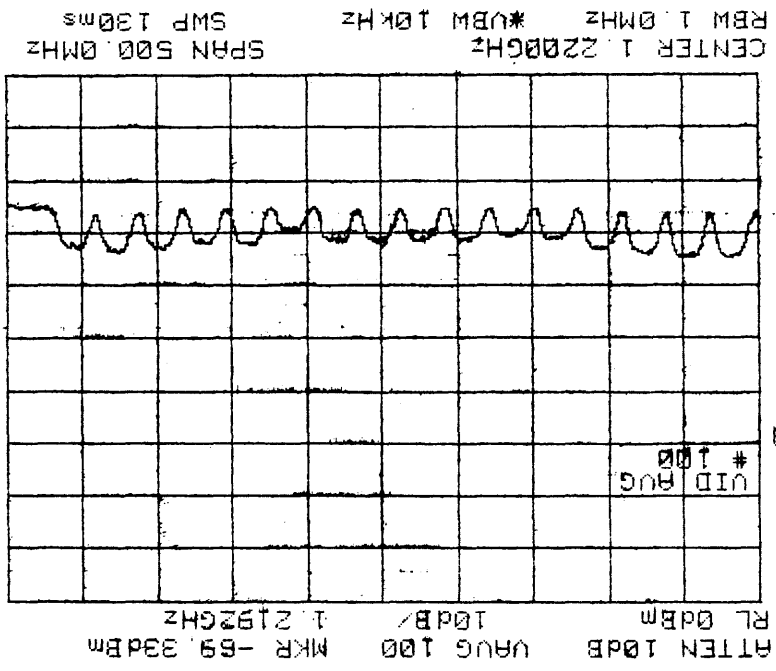


CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms



D

89/06/99
 3-3C
 Figure



09/06/99
 3-3d
 ATENA

9/6/99

Site 3 - Kennedy Center - VLSI Box

Box 1 - Sym Rate 20MB - Bee Plots

VLSI / Site 3 / #.10

ES21	ES22	ES11	ES12	DTV1	DTV2	NP1
1221.9	1220.99	1222.499	1222.499	1221.749	1221.749	1220
∅	∅	∅	∅	∅	∅	∅
N	N	N	N	N	N	N
1 - 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4
3.6	3.4	2.8	2.7	3.7	3.7	9
9.5	9.5	9.1	9.1	9.0	9.0	7.3
17.7	17.6	17.0	17.1	17.7	17.6	15.0
<10.9	<10.9	<10.9	<10.9	<10.9	<10.9	<10.9
OFF	OFF	OFF	OFF	OFF	OFF	OFF
ES2 (119)	ES2 (119)	ES1 (61.5)	ES1 (61.5)	DTV	DTV	NP

Data
 Bee
 Arc
 Level
 Nest
 Viterbi
 gain
 spec Inv
 Bee Plot Name
 Uncore Count
 FREQ

22-141 50 SHEETS
 22-142 100 SHEETS
 22-144 200 SHEETS

