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).

		Ant:			
Sat 1 Power (Px)		TV Pix		Plot ID	File Rec
Sat 2 Power (Px)		TV Pix		Plot ID	File Rec
Sat 3 Power (Px)		TV Pix		Plot ID	File Rec
Sat 4 Power (Px)		TV Pix		Plot ID	File Rec

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

		Ant:			
Sat 1 Power (Px)		TV Pix		Plot ID	File Rec
Sat 2 Power (Px)		TV Pix		Plot ID	File Rec
Sat 3 Power (Px)		TV Pix		Plot ID	File Rec
Sat 4 Power (Px)		TV Pix		Plot ID	File Rec

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Rx Site No. R3 **p2**
Set: 1/4

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 NP Tx 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 Compatiblilty Test – Washington DC Area

Rx Site Location Log

Rx Site No. R3 p1

Set: 1/

Site Name: Post Office, Bladensburg

Date / Time: 9/3/99 10:52 EDT

Operator: Jonathan

GPS Receiver Reading at Site:

Time Read 14:57:08 ~~EDT~~ CMT

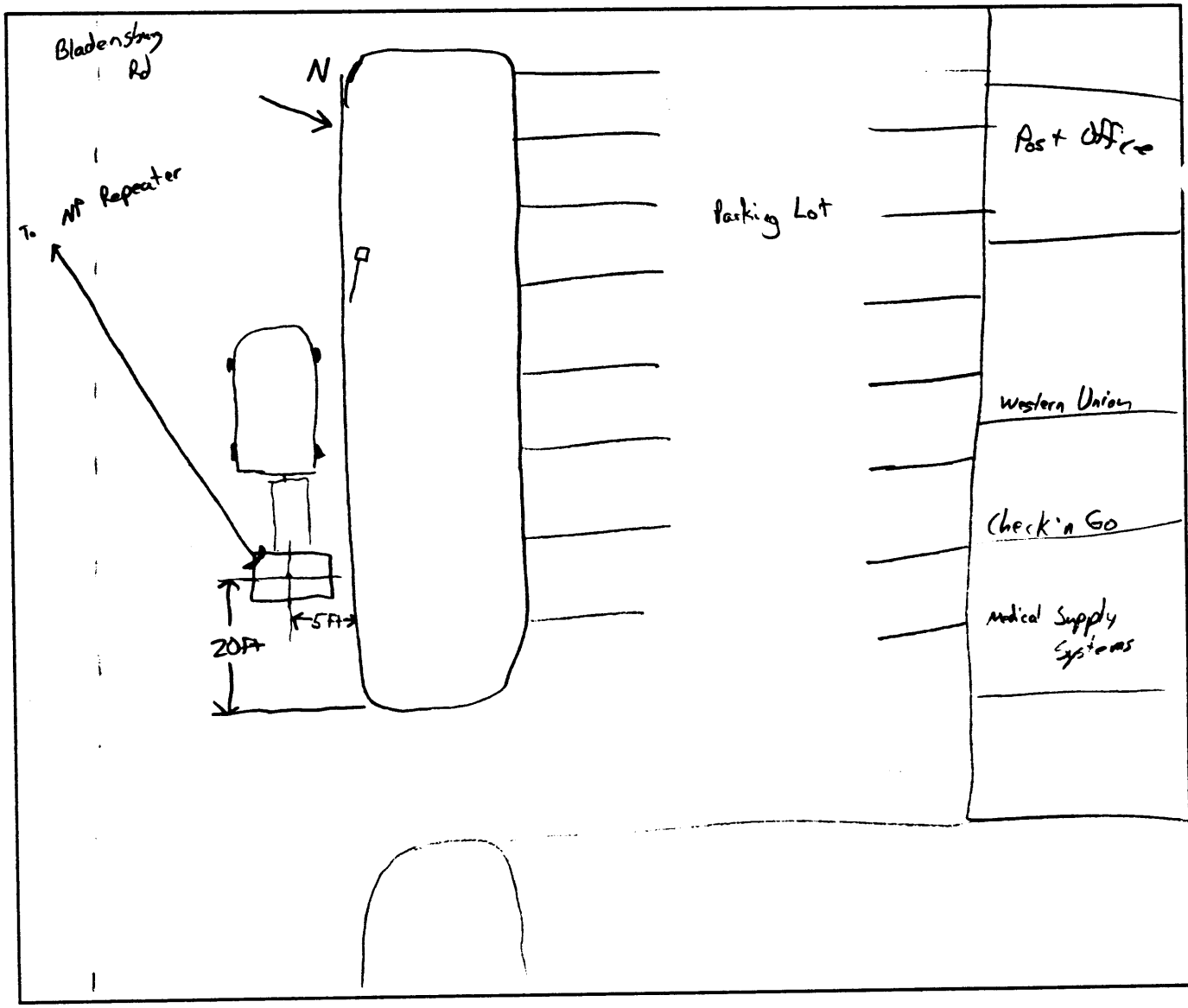
Lat: 38° 55.734'

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 Compatiblilty Test – Washington DC Area

Rx Site Data Log

7-Eleven Store on Bladensburg rd.

Rx Site No. R1 p1

Set: 2 / ___

Re: Rx Condx Ref. No. 1

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

Re: Tx Condx Ref. No. 1

Operator: Adwo

Data Measurements:

NPTx Carrier Freq. (GHz)	12.47	Disk Filename	—

(1) NP Signal – NPTx ON:

	NP	Ant: DBS 1					
Power (Px)	-41.17dB	TV Pix	OK	Plot ID	R1-1	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)	-66.50dB	TV Pix		Plot ID	R1-2b	File Rec	—

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

Sat 4	ES (119)	Ant: NP4					
Power (Px)	-66.67dB	TV Pix		Plot ID	R1-2d	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)	-66.67dB	TV Pix		Plot ID	R1-3b	File Rec	—

Sat 3	ES (61.5)	Ant: NP2					
Power (Px)	-65.53dB	TV Pix		Plot ID	R1-3c	File Rec	—

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

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Rx Site No. R1 **p2**
Set: 2 / ___

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

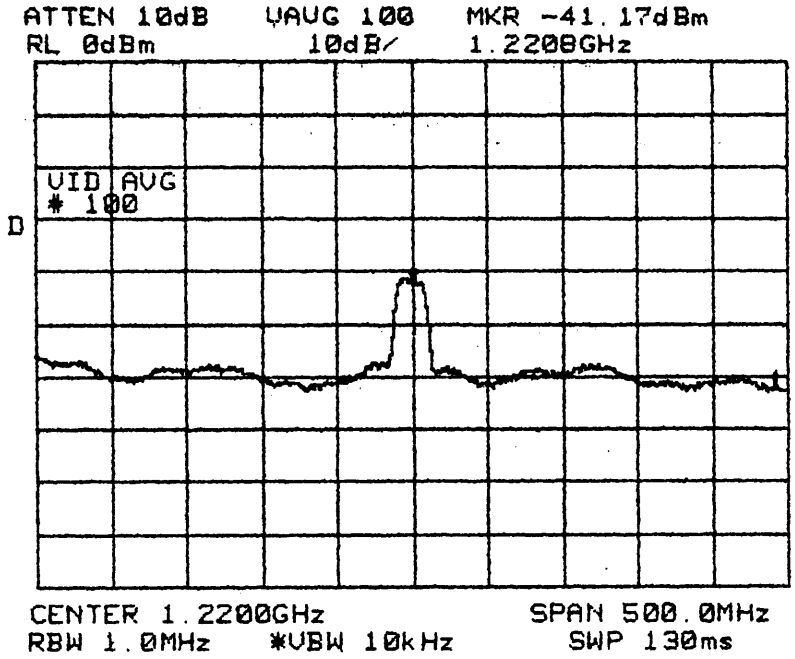
Legend // Comments:

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. Dkw

* – 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. Dkw

09/02/99
R1-1
Adtra



Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Condx/Event Log -- BER Data

Rx Site No. R1 p1

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

Set: 2 /

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.

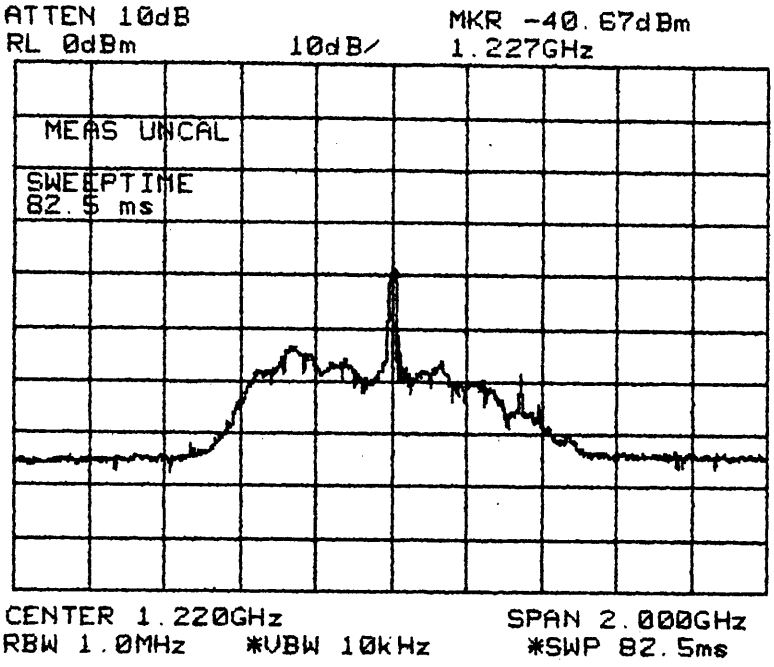
NPTx Carrier Freq. (GHz)	12.47 GHz	NTC Filename	log 9-2-99.dat
Satellite Monitored	ES 119	Transponder	T-18

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

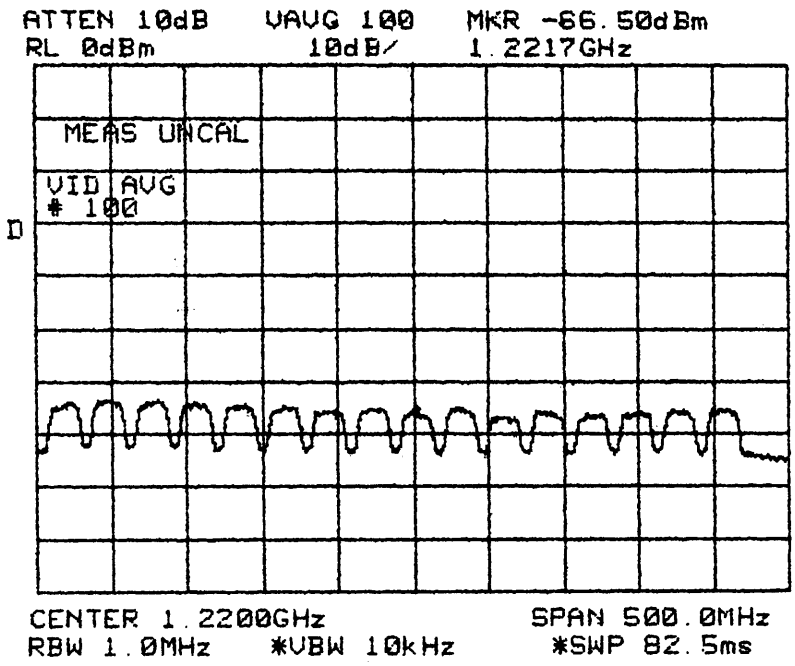
NPTx → NPRp (Repeater)

#	Time – EDT	Condition / Event
	14:13	start logging valid data – NPTx (OFF)
	14:13:30	Lg. Plane – high alt – (~10kft) overhead. → S
	14:15	Wx PC (70-80%) PC & haze – 80-85°F.
	14:16	Construction crews working on gutter at Stuart intersection.
	14:18	~18 vehicles/min Traffic – Bladensburg Rd.
	14:30	NPTx (ON)
	14:32	wx condx ~ same – maybe slight decrease in clouds.
	14:33	~19 veh./min
	14:48	wx condx ~ same
	14:49	Large construction vehicles on cortlandt Av. at corner.
	15:04:46	NPTx (OFF)
	15:07	wx ~ same
	15:08	Traffic – 26 veh/min.
	15:10	Large Plane ~10-15 kft to west → S.
	15:20:30	Exit logger – Stop logging data –

09/02/99
R1-1 (Span = 2.00 GHz)
Adura



09/02/99
R1-2b
Adura



COMMENTS FROM SITE 10A

Site 10A Federal Construction Site

Date: September 6, 1999
Weather Conditions: Heavy overcast; windy; 85°

Comments:

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Construction site

Rx Site No. 10A p1
Set: 1

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 - NV 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	80	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

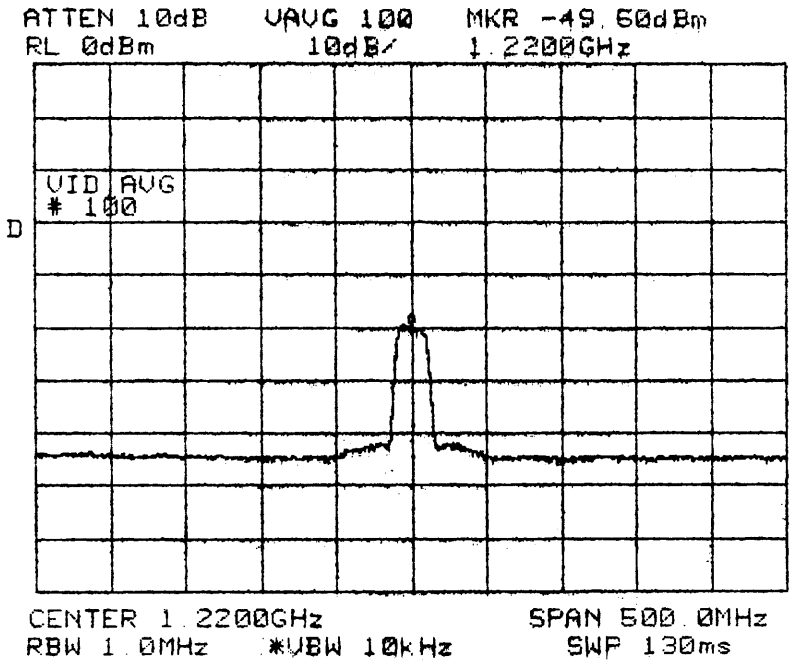
Legend // Comments:

NPTx – Northpoint Transmitter.

09/06/99

LOA-1

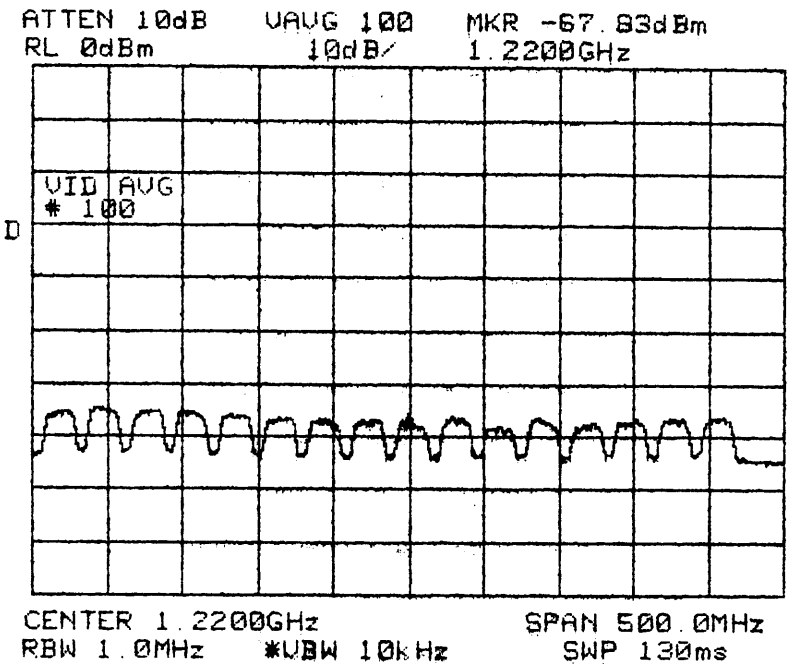
Adwa



09/06/99

10A-26

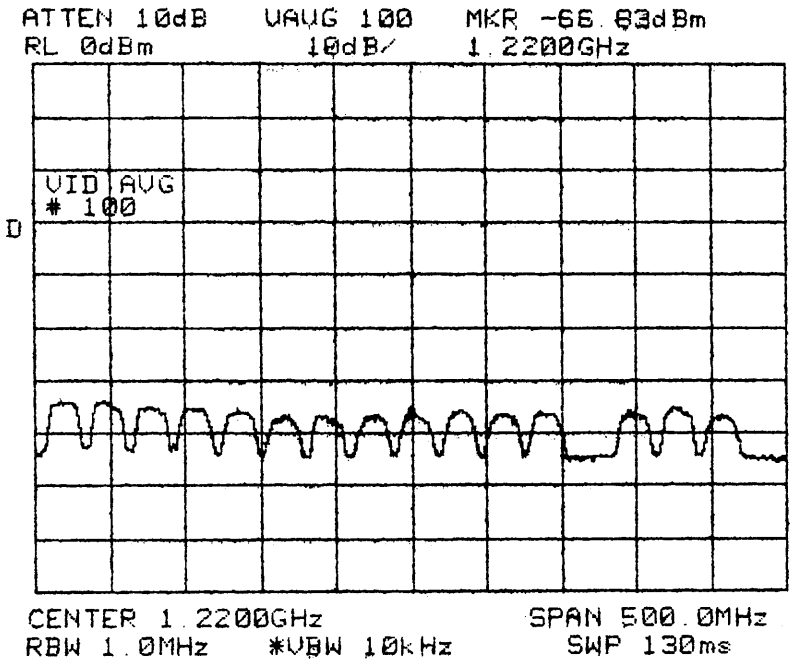
Adv



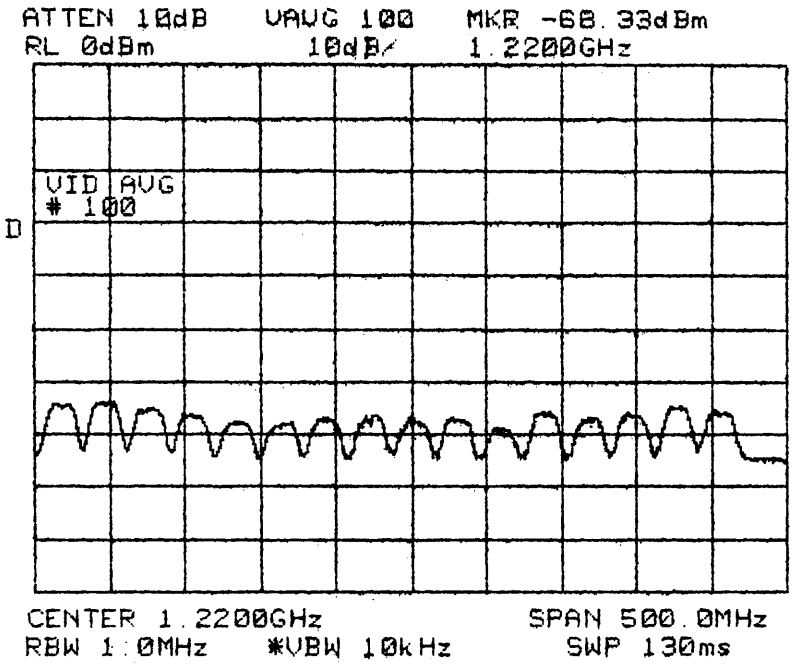
09/06/99

10A-2C

Ad-9

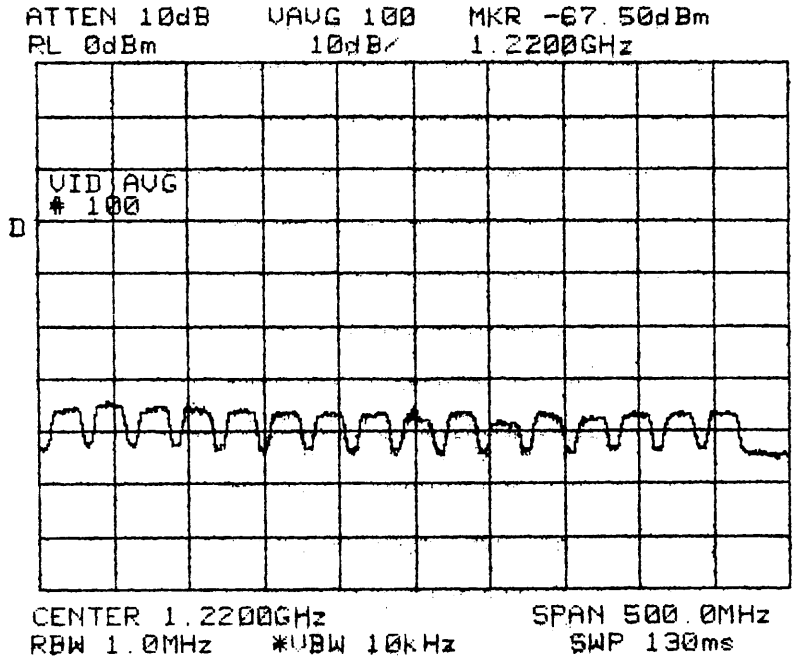


09/06/99
10A-2d
Adura

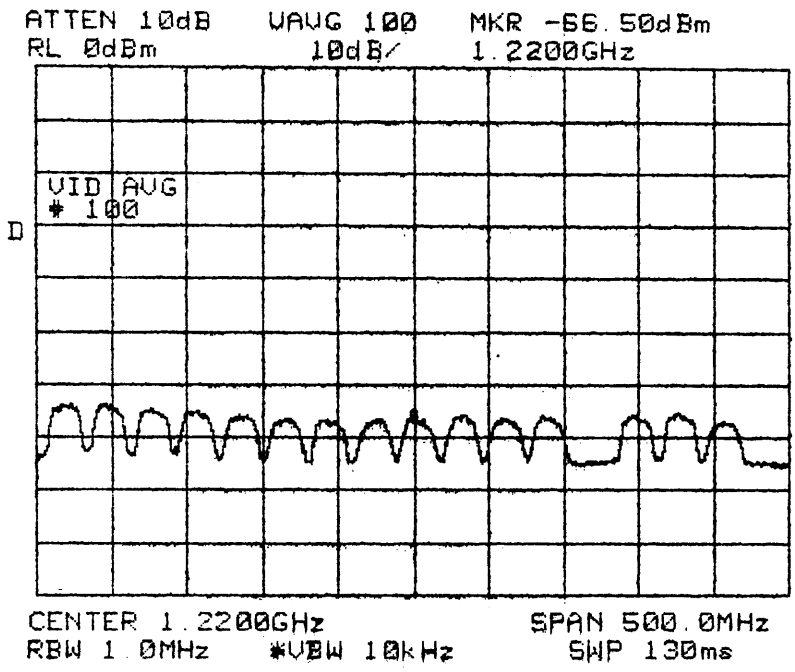


09/06/99

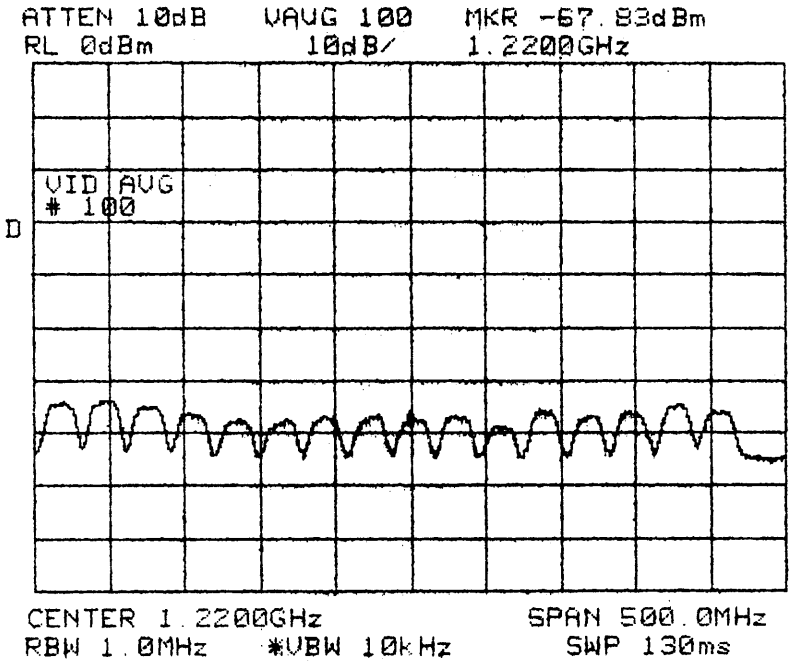
LOA-36



09/06/99
10A-3C
Antenna



09/06/99
10A-39
Adura



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

DATA Ty/	NP OFF	NP ON	DTV OFF	DTV ON	ES1 (61.5) OFF	ES1 (61.5) ON	ES2 (115) OFF	ES2 (115) ON
BER		<10^{-9}	<10^{-9}	<10^{-9}	<10^{-9}	<10^{-9}	<10^{-9}	<10^{-9}
AGC		149	115	176	172	170	176	175
LEVEL		72	90	90	90	89	92	91
NEST		9	42	40	24	25	31	30
Viterbi		3/4	2/3	2/3	3/4	3/4	3/4	3/4
Gain		1	2	1	1	1	1	1
Spec Inv.		Y	N	N	N	N	N	N
BER Plot Name		NP1	DTV2	DTV1	EC12	EC11	EC22	EC21
uncorr. counts		Ø	Ø	Ø	Ø	Ø	Ø	Ø
Freq.		1220	1220.999	1221.749	1222.75	1222.499	1220.999	1220.999

Site 10A - Construction Site

For ALL - Sym. Rate Comb. -

BER Plots \VLS I\ Site10A*.*

9/6/95

COMMENTS FROM SITE 3

Site 3 Kennedy Center

Date: September 6, 1999
Weather Conditions: Heavy overcast; windy; Temp 85°

Comments:

Northpoint Technology – DBS Compatiblilty 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: Adria

Data Measurements:

NPTx Carrier Freq. (GHz)	12.47	Disk Filename	—

(1) NP Signal – NPTx ON:

WX; Hv OC ~85°F - windy

		Ant:					
Power (Px)	-47.83dB -73.33dB	TV Pix	OK	Plot ID	3-1 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)	-67.00dB	TV Pix		Plot ID	3-2b	File Rec	—

Sat 3	ES (61.5)	Ant:					
Power (Px)	-67.83dB	TV Pix		Plot ID	3-2c	File Rec	—

Sat 4	ES (119)	Ant:					
Power (Px)	-69.67dB	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)	67.00dB	TV Pix		Plot ID	3-3b	File Rec	—

Sat 3	ES (61.5)	Ant:					
Power (Px)	-67.83dB	TV Pix		Plot ID	3-3c	File Rec	—

Sat 4	ES (119)	Ant:					
Power (Px)	-69.33dB	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: 1

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-18	91	92	91	91	92	91	92	92	92	91	Avg:	91.5
Sat 4	T-18	85	85	84	85	85	84	84	84	83	84	Avg:	84.3

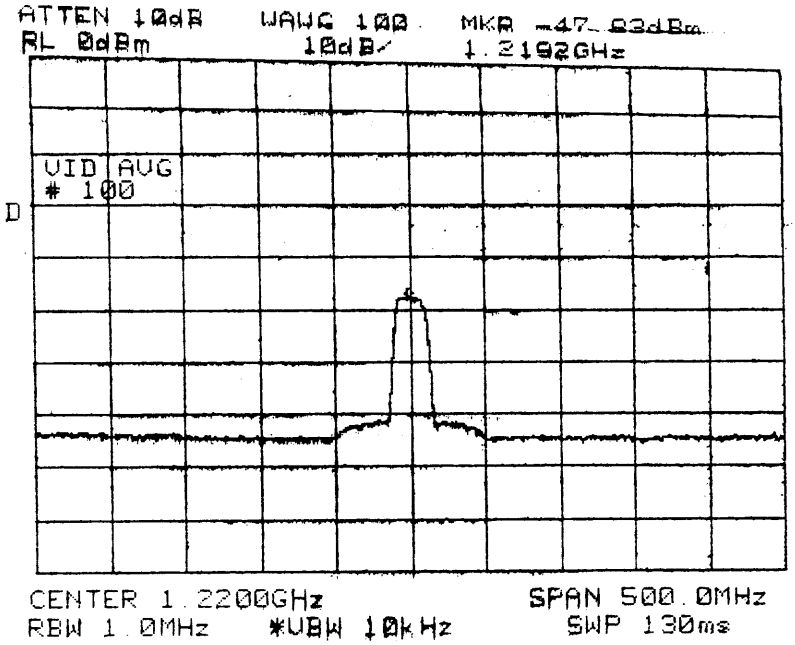
(3a) NPTx ON:

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

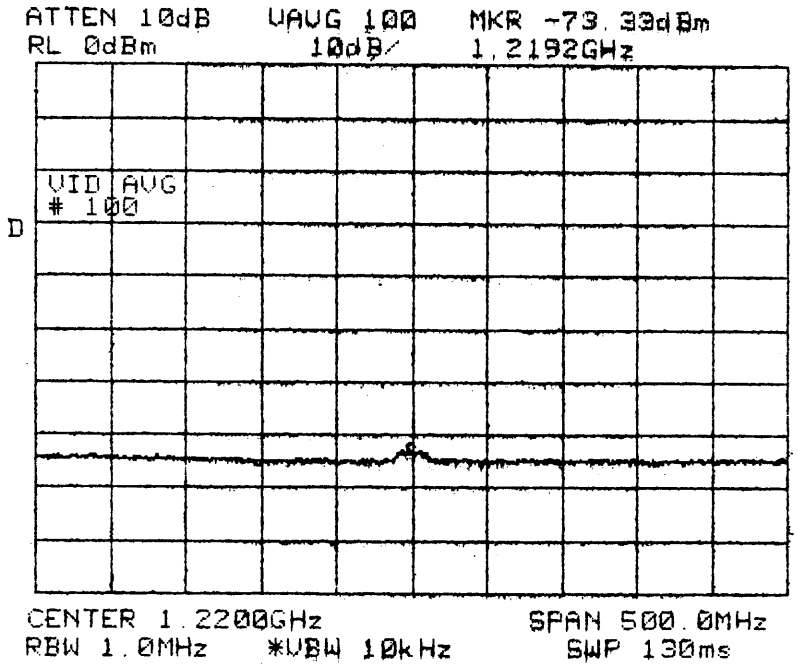
Legend // Comments:

NPTx – Northpoint Transmitter.

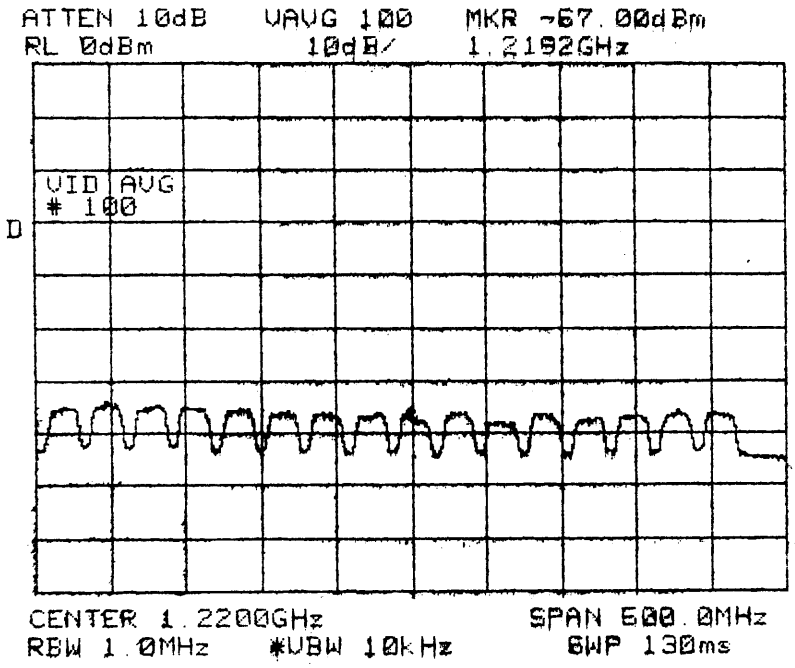
09/06/99
3-1


ATTEN 10dB
RL 0dBm
WAVG 100
10dB/
MKR -47.93dBm
1.2192GHz
VID AVG
100
D
CENTER 1.2200GHz
RBW 1.0MHz
*VBW 10kHz
SPAN 500.0MHz
SWP 130ms

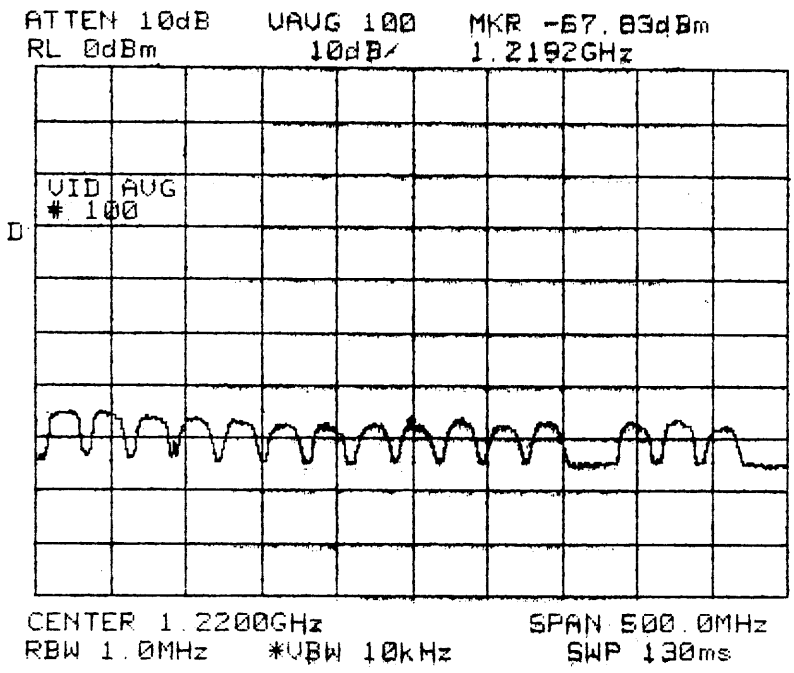
09/06/99
3-16
Adam



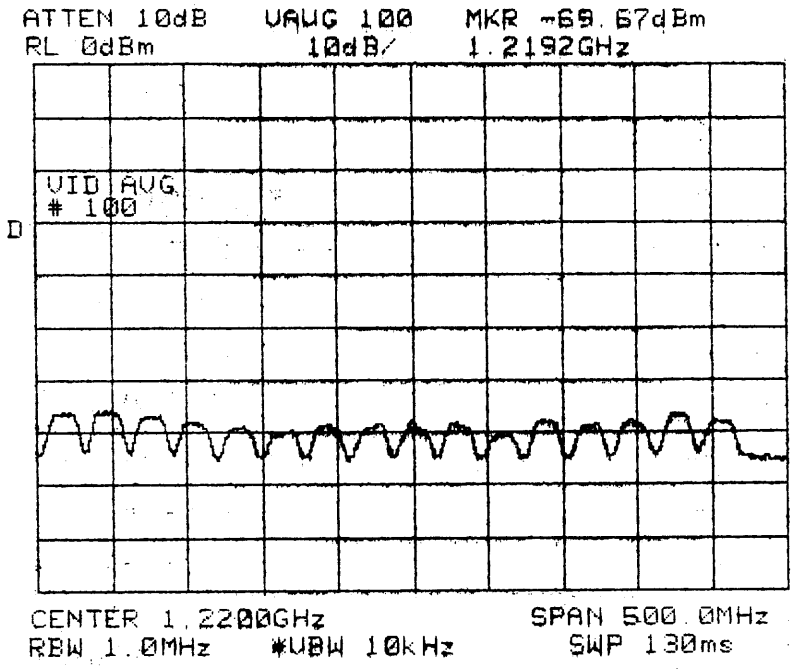
09/06/99
3-2b
Adura



09/06/99
3-2C
Adura



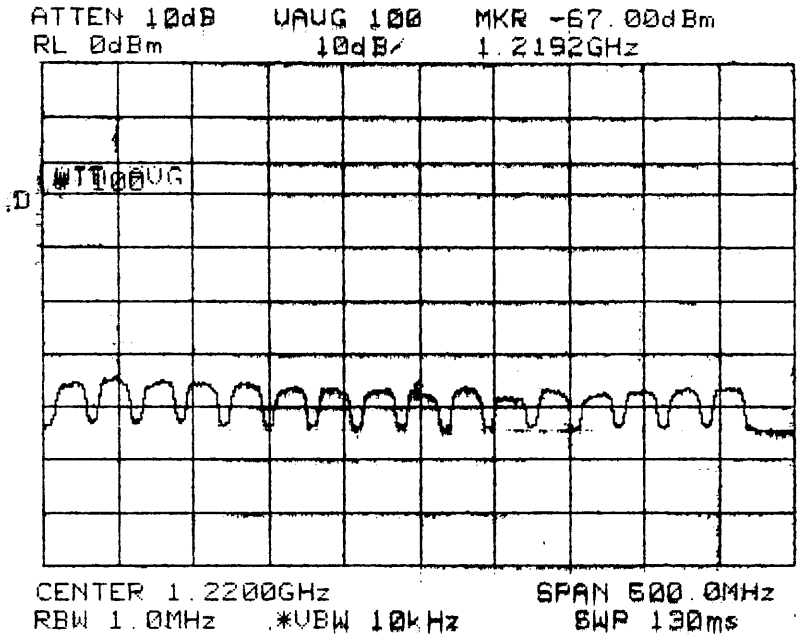
09/06/99
3-2d
Adur



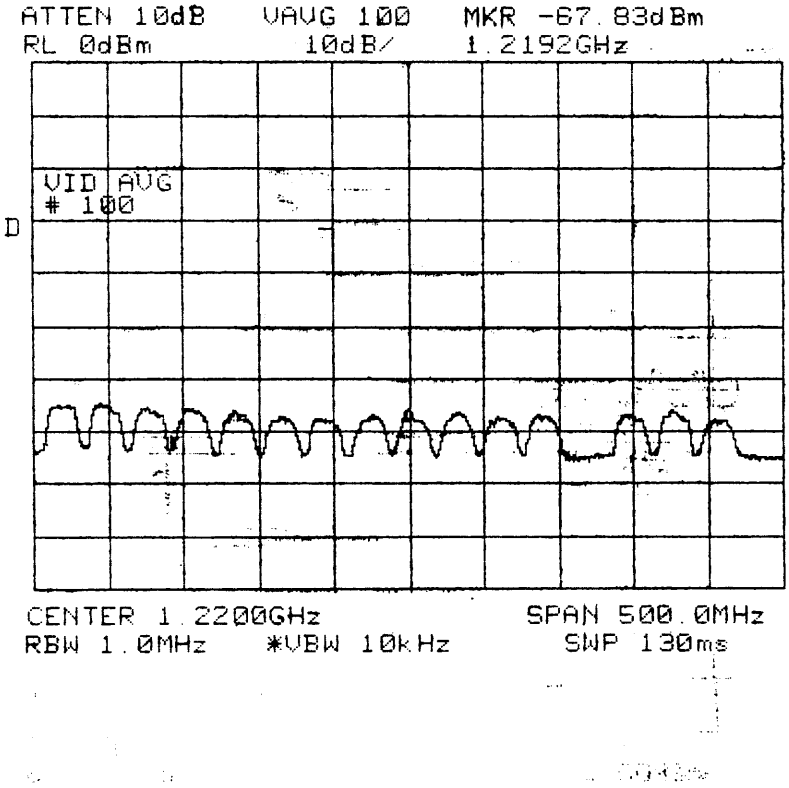
09/06/99

3-36

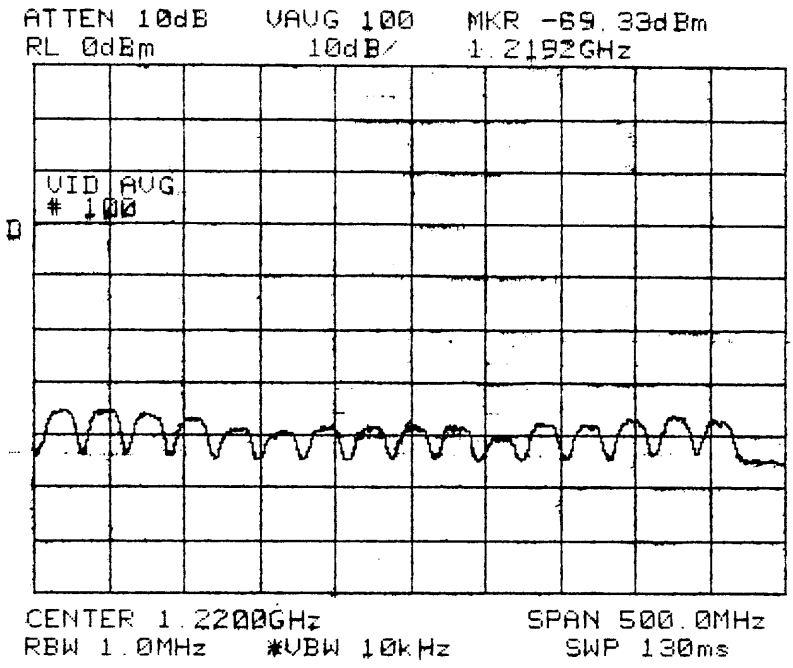
Adlung



09/06/99
3-3c
Adura



09/06/99
3-3d
Adura



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

Site 3 - Kennedy Center - VLSI Box

Rx ch - Sym Rate 20MB - BER Plots (VLSI \ site 3 \ *.w

5/6/92

Data Tx/	NP OFF	NP ON	DTV OFF	DTV ON	ES1 (61.5) OFF	ES1 (61.5) ON	ES2 (119) OFF	ES2 (119) ON
BER		$<10^{-9}$	$<10^{-9}$	$<10^{-9}$	$<10^{-9}$	$<10^{-9}$	$<10^{-9}$	$<10^{-9}$
AGC		150	176	177	171	170	176	177
LEVEL		73	90	90	91	91	95	95
NEST		9	37	37	27	28	34	36
Viterbi		3/4	2/3	2/3	3/4	3/4	3/4	3/4
Gain		1	1	1	1	1	1	1
Spec Inv		Y	N	N	N	N	N	N
BER Plot Name		NP1	DTV2	DTV1	ES12	ES11	ES22	ES21
UNCORR COUNTER		0	0	0	0	0	0	0
FREQ		1220	1221.749	1221.749	1222.499	1222.499	1220.999	1221.9