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COMMENTS FROM SITE 3A

Site 3A Nash & 14th Streets (Arlington, Va)

Date: August 10, 1999

Weather Conditions: Clear Sky; Temp Low 80°'s

Comments: DirecTV and Echostar (119) signals could not be
Detected due to location.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Nash #14th

Rx Site No.

3A

p1

Set:

1/1
arrival

Departure
17:41

Re: Rx Condx Ref. No.

1

Date / Time:

8/10/99 17:10 EDT

Re: Tx Condx Ref. No.

1

Operator:

Adura

Data Measurements:

NPTx Carrier Freq. (GHz)

12.47

Disk Filename

X

(1) NP Signal – NPTx ON:

No detection for North point signal

Power (Px)	Ant:	TV Pix	Plot ID	File Rec
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(2) DBS Signals – NPTx OFF:

(Do also ssp data on page 2).

Sat 1	Ant:	TV Pix	Plot ID	File Rec
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Sat 2	DTV	Ant:	TV Pix	Plot ID	File Rec
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Sat 3	ES (61.5)	Ant:	TV Pix	Plot ID	File Rec
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Sat 4	ES (119)	Ant:	TV Pix	Plot ID	File Rec
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(3) DBS Signals – NPTx ON:

(Do also ssp data on page 2).

Sat 1	Ant:	TV Pix	Plot ID	File Rec
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Sat 2	DTV	Ant:	TV Pix	Plot ID	File Rec
-------	-----	------	--------	---------	----------

Sat 3	ES (61.5)	Ant:	TV Pix	Plot ID	File Rec
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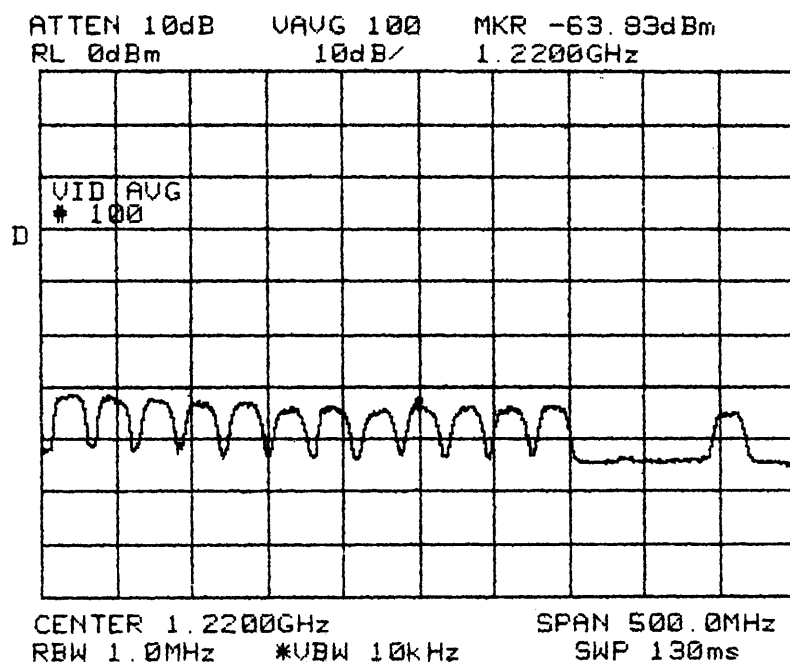
Sat 4	ES (119)	Ant:	TV Pix	Plot ID	File Rec
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(4) NPTx OFF.

#Adura

8/10/99

3A-36



Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Location Log

Rx Site No.

3A

p1

Set:

1/1

Site Name:

Date / Time:

8/10/99 17:10 EDT

Nash & 14th

Operator:

Akin

GPS Receiver Reading at Site:

Lat: N 38° 53.380'

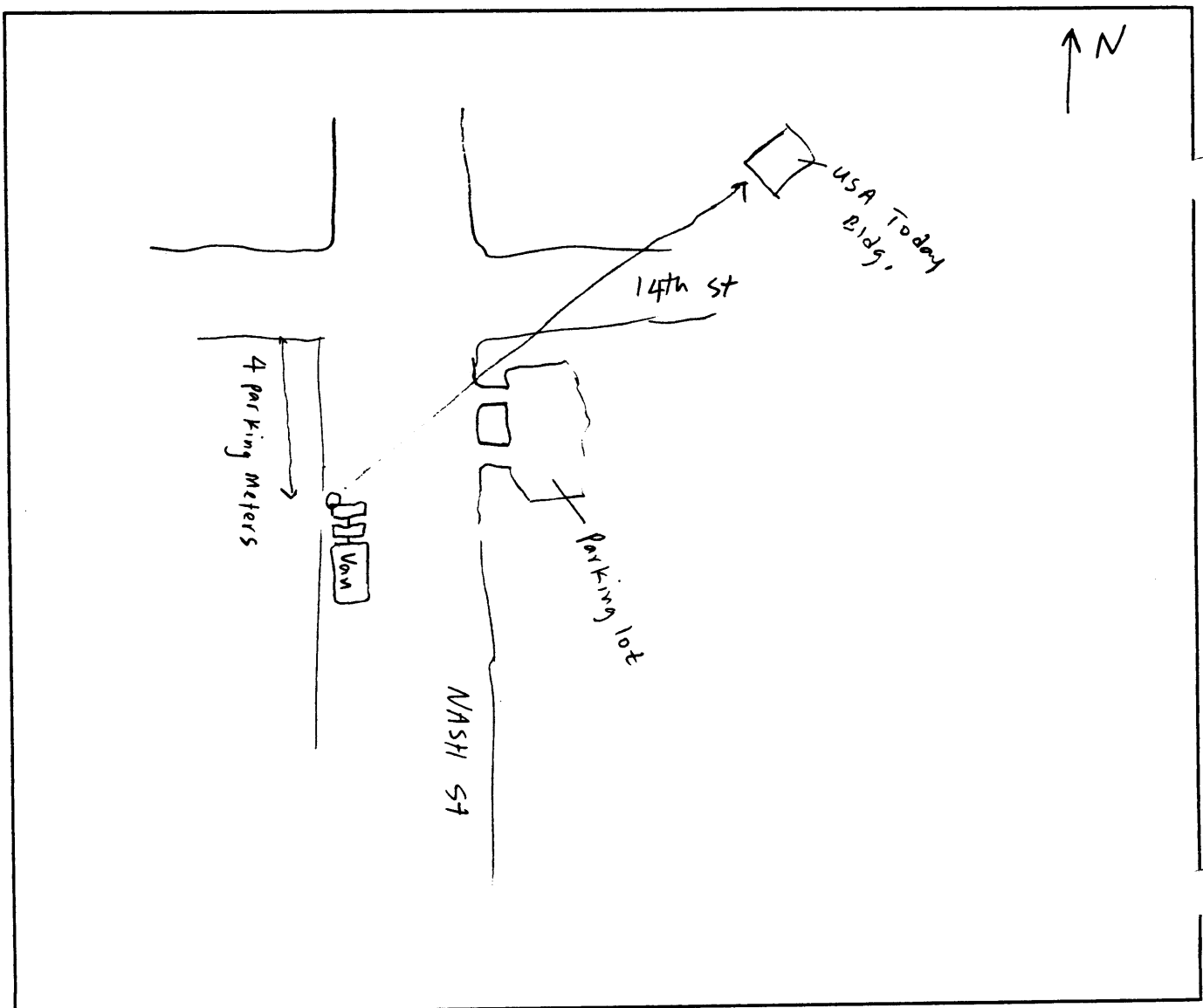
Time Read 21:24:50 ^{GMT} ~~EDT~~

Lon: W 077° 04.325'

Elev: 183 Ft

Weather: temp: low 80's
clear sky

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



Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Rx Site No.

3A

p2

Set:

1 / 1

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-											Avg:	
Sat 3	T-18	95	95	95	95	95	95	95	95	95	95	Avg:	95.0
Sat 4	T-											Avg:	

(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-											Avg:	
Sat 3	T-18	96	95	96	96	95	95	97	95	96	95	Avg:	95.6
Sat 4	T-											Avg:	

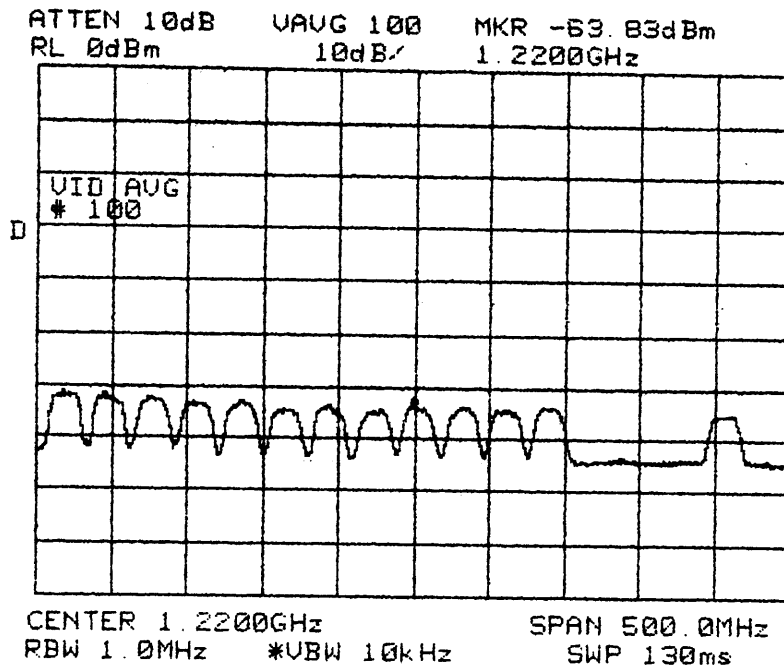
Legend // Comments:

NPTx – Northpoint Transmitter.

DTV & ES (119) ^{signals} could not be
detected due to location

Adura
8/10/99

3A2b



COMMENTS FROM SITE 7A

Site 7A Rt. 110 & Marshal Drive (Median)

Date: August 11, 1999

Weather Conditions: Sunny

Comments:

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Marshall Dr/
Rt. 110 Median

Rx Site No.

7A

p1

Set:

1/1

Re: Rx Condx Ref. No.

1

Date / Time:

8/11/99 12:50 EDT

Re: Tx Condx Ref. No.

1

Operator:

Jonathan

Data Measurements:

NPTx Carrier Freq. (GHz) 12.4

Disk Filename

(1) NP Signal – NPTx ON:

DBS-1	Ant:		
Power (Px)	-49.33	TV Pix	OK
Plot ID	7A-1	File Rec	X

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

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

Sat 2	DTV	Ant: NP3	
Power (Px)	-65.50	TV Pix	X
Plot ID	7A-2a	File Rec	X

* Sat 3 4	ES (119)	Ant: NP2	
Power (Px)	-65.67	TV Pix	
Plot ID	7A-2b	File Rec	X

Sat 4	ES (615)	Ant: NP2	
Power (Px)	-64.67	TV Pix	X
Plot ID	7A-2c	File Rec	X

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

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

Sat 2	DTV	Ant: NP3	
Power (Px)	-65.17	TV Pix	X
Plot ID	7A-3a	File Rec	X

* Sat 3 4	ES (1191)	Ant: NP2	
Power (Px)	-65.50	TV Pix	
Plot ID	7A-3b	File Rec	X

Sat 4	ES (615)	Ant: NP2	
Power (Px)	-65.00	TV Pix	X
Plot ID	7A-3c	File Rec	X

(4) NPTx OFF.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Rx Site No.

7A

p2

Set:

11

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

	Sat 1	T-											Avg:	
DTV	Sat 2	T-18	80	82	77	80	83	80	83	81	81	81	Avg:	80.8
ES-119	Sat 3	T-18	88	88	89	88	87	88	88	88	88	88	Avg:	88.0
ES-615	Sat 4	T-18	94	95	93	94	94	94	94	95	95	95	Avg:	94.4

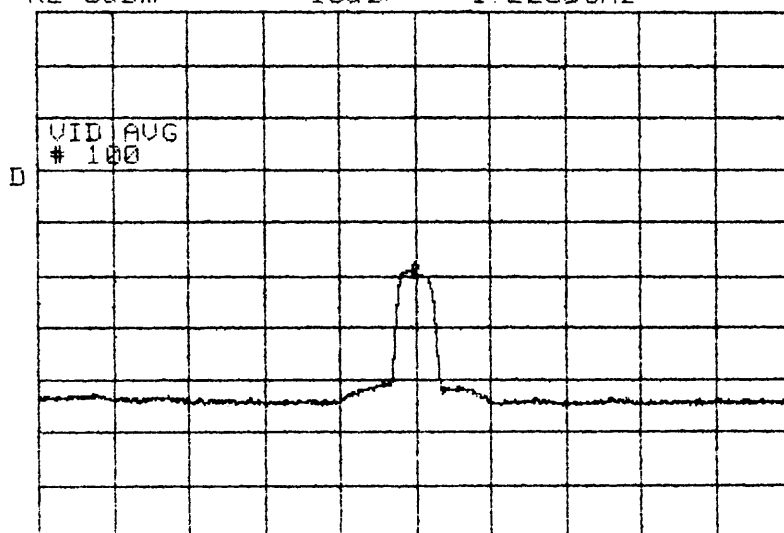
(3a) NPTx ON:

	Sat 1	T-											Avg:	
DTV	Sat 2	T-18	76	76	79	74	71	77	72	76	79	78	Avg:	75.8
ES-119	Sat 3	T-18	88	88	89	87	88	88	89	87	88	88	Avg:	88.0
ES-615	Sat 4	T-18	95	96	95	95	95	96	95	95	95	95	Avg:	95.2

Legend // Comments:

NPTx – Northpoint Transmitter.

ATTEN 10dB UAVG 100 MKR -49.33dBm
RL 0dBm 10dB/ 1.2200GHz



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

7A-1.

COMMENTS FROM SITE 6A

Site 6A Rt. 110 & Marshal Drive (Arlington, VA)

Date: August 11, 1999

Weather Conditions:

Comments: Tree blockage.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log

Rt. 110 & Marshall Dr.

Rx Site No.

6A

p1

Set:

1/1

Re: Rx Condx Ref. No.

1

Date / Time:

8/11/99 11:39 EDT

Re: Tx Condx Ref. No.

1

Operator:

Jonathan Vorhis

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename

(1) NP Signal – NPTx ON:

DBS-1	Ant: DBS-1	Plot ID	6A-1	File Rec	X
Power (Px)	-49.5	TV Pix	OK		

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

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

Sat 2	DTV (101)	Ant: NP3	Plot ID	6A-2a	File Rec	X
Power (Px)	-66.0	TV Pix	Blocked by trees			

Sat 3	ES (61.5)	Ant: NP2	Plot ID	6A-2b	File Rec	X
Power (Px)	-64.5	TV Pix				

Sat 4	ES (119)	Ant: NP2	Plot ID	6A-2c	File Rec	X
Power (Px)	-72.83	TV Pix	Blocked by trees.			

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

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

Sat 2	DTV (101)	Ant: NP3	Plot ID	6A-3a	File Rec	X
Power (Px)	-66.17	TV Pix				

Sat 3	ES (61.5)	Ant: NP2	Plot ID	6A-3b	File Rec	1
Power (Px)	-64.83	TV Pix				

Sat 4	ES (119)	Ant: NP2	Plot ID	6A-3c	File Rec	X
Power (Px)	TV Pix					

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Rx Site No.

6A

p2

Set:

11

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-18	79	78	79	78	79	76	78	78	80	77	Avg:	78.2
Sat 3	T-18	95	96	95	95	96	95	95	95	95	96	Avg:	95.4
Sat 4	T-18											Avg:	

→ blocked by trees

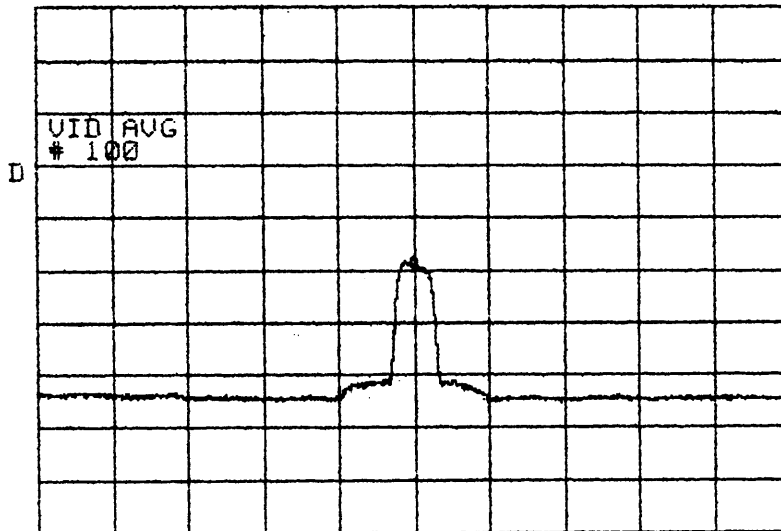
(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-18	75	77	70	69	75	74	75	72	74	75	Avg:	73.6
Sat 3	T-18	95	94	95	94	94	93	94	95	94	95	Avg:	94.3
Sat 4	T-18											Avg:	

Legend // Comments:

NPTx – Northpoint Transmitter.

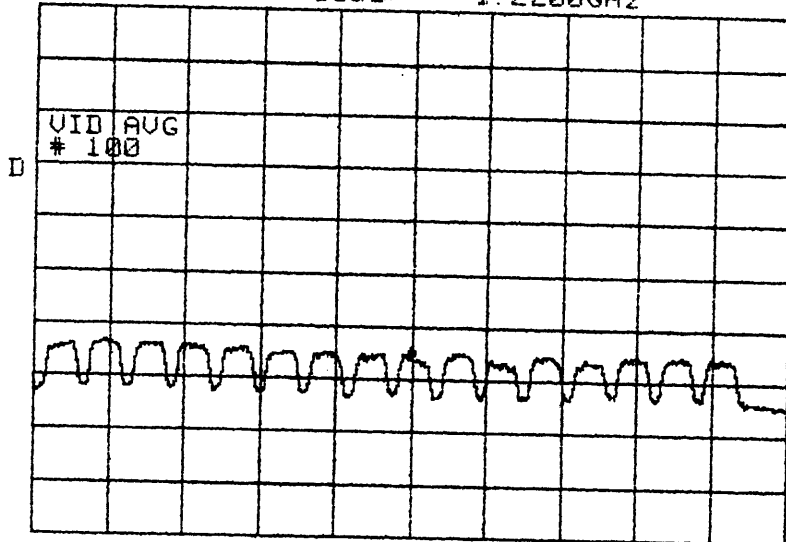
ATTEN 10dB VAUG 100 MKR -49.50dBm
RL 0dBm 10dB/ 1.2200GHz



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

8A-1

ATTEN 10dB UAUG 100 MKR -66.00dBm
RL 0dBm 10dB/ 1.2200GHz



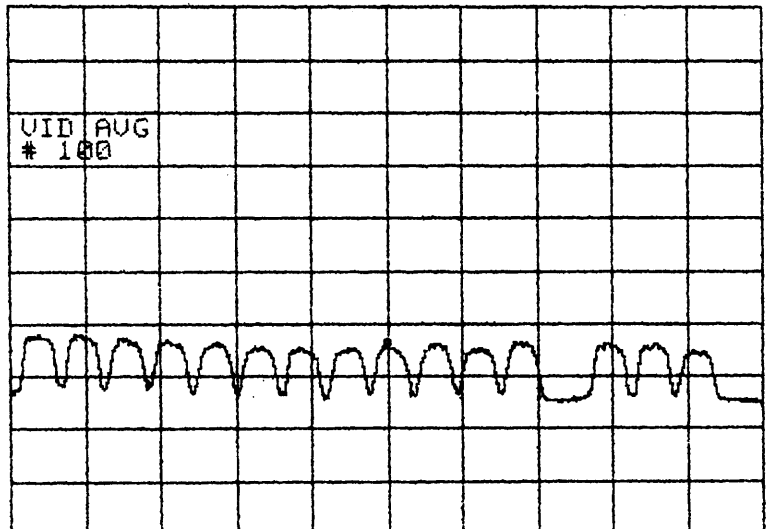
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

6A-2a

6A-2b

ATTEN 10dB UAUG 100 MKR -64.50dBm
RL 0dBm 10dB/ 1.2200GHz

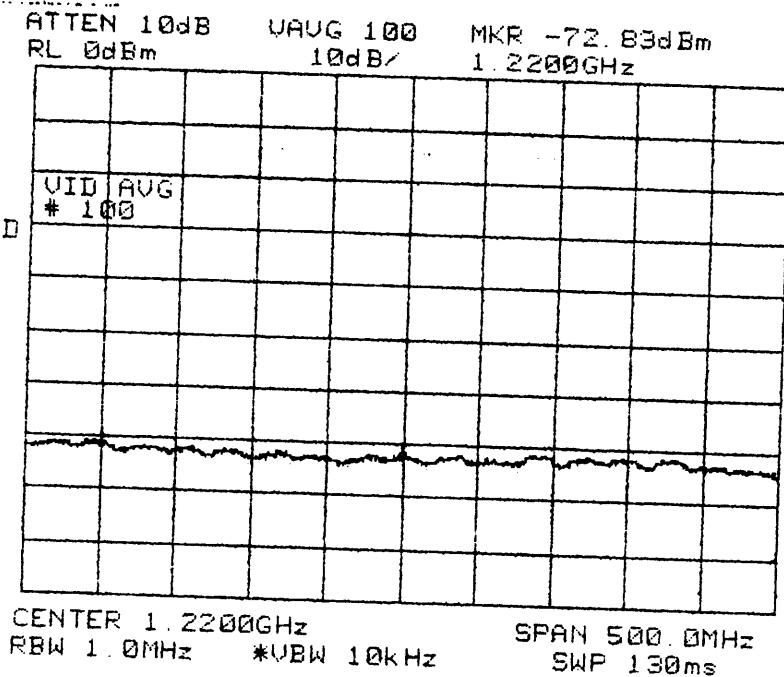
D



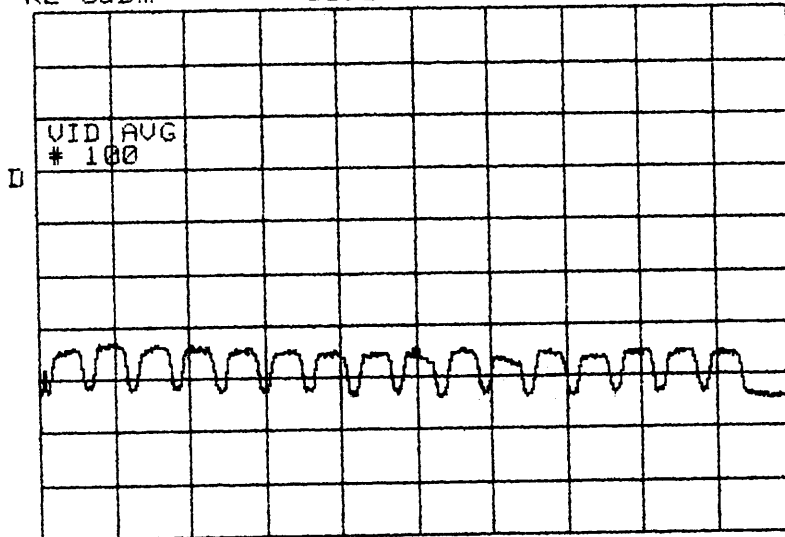
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

blocked by trees

GA-2-430



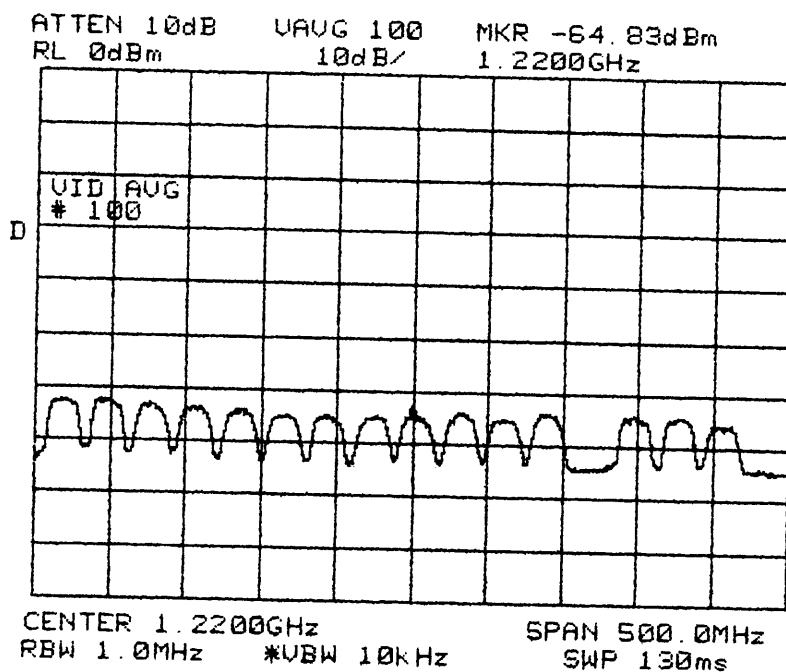
ATTEN 10dB VAUG 100 MKR -66.17dBm
RL 0dBm 10dB/ 1.2200GHz



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

6A-3a

GA-3b



NB 6A-3C

obtained -

Sat. blocked by trees.
—

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Location Log

Rx Site No.

6A

p1

Set:

1 /

Site Name:

Date / Time:

8/11/99 11:39 EDT

Rt. 110 South of Marshall Dr

Operator:

Jonathan

GPS Receiver Reading at Site:

Lat: N 38° 53.262'

Time Read 16:00:18 ~~EDT~~ GMT

Lon: W 077° 09.967

Elev: 92 Ft

Weather:

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

