

## COMMENTS FROM SITE 9A

Site 9A Value Inns of America (Dawn Dr. & US Rt. 1 – Virginia)

Date: August 11, 1999

Weather Conditions: Clear to partly cloudy sky; Temp 90°

Comments: Tried boom lift in “up” position – no increase in Northpoint signal.

# Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

## Rx Site Data Log

Value Errors of Ant.

Rx Site No. 9A p1  
Set: 1/

Re: Rx Condx Ref. No. 1

Date / Time: 8/11/99 6:40pm EDT

Re: Tx Condx Ref. No. 1

Operator: Jonathan

### Data Measurements:

NPTx Carrier Freq. (GHz) 12.47 Disk Filename

(1) NP Signal – NPTx ON:

	<u>DBS-1</u>	Ant: <u>DBS1</u>			
Power (Px)	<u>-72.33</u>	TV Pix	<u>NO</u>	Plot ID	<u>9A-1</u>
				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	<u>DTV</u>	Ant: <u>NP3</u>			
Power (Px)	<u>-65.00</u>	TV Pix	<u>X</u>	Plot ID	<u>9A-2a</u>
				File Rec	

Sat 3	<u>ES (61.5)</u>	Ant: <u>NP2</u>			
Power (Px)	<u>-66.67</u>	TV Pix	<u>X</u>	Plot ID	<u>9A-2b</u>
				File Rec	

Sat 4	<u>ES (119)</u>	Ant: <u>NP4</u>			
Power (Px)	<u>-66.33</u>	TV Pix	<u>X</u>	Plot ID	<u>9A-2c</u>
				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	<u>DTV</u>	Ant: <u>NP3</u>			
Power (Px)	<u>-65.5</u>	TV Pix	<u>X</u>	Plot ID	<u>9A-3a</u>
				File Rec	

Sat 3	<u>ES (61.5)</u>	Ant: <u>NP2</u>			
Power (Px)	<u>-66.67</u>	TV Pix	<u>X</u>	Plot ID	<u>9A-3b</u>
				File Rec	

Sat 4	<u>ES (119)</u>	Ant: <u>NP4</u>			
Power (Px)	<u>-66.17</u>	TV Pix	<u>X</u>	Plot ID	<u>9A-3c</u>
				File Rec	

(4) NPTx OFF.

# Northpoint Technology – DBS Compatibility Test – Washington DC Area

## Rx Site Data Log

Rx Site No. 9A p2  
 Set: 11

### Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-										Avg:		
Sat 2	T-19	83	85	83	84	84	82	84	86	85	84	Avg:	84.0
Sat 3	T-18	88	87	89	88	87	88	87	88	89	88	Avg:	87.9
Sat 4	T-18	87	87	87	87	87	87	87	87	87	87	Avg:	87.0

(3a) NPTx ON:

Sat 1	T-										Avg:		
Sat 2	T-18	87	89	88	86	88	86	88	88	86	87	Avg:	87.3
Sat 3	T-19	89	88	88	89	89	88	88	88	88	89	Avg:	88.4
Sat 4	T-18	87	87	88	87	87	88	87	87	87	87	Avg:	87.2

Legend // Comments:

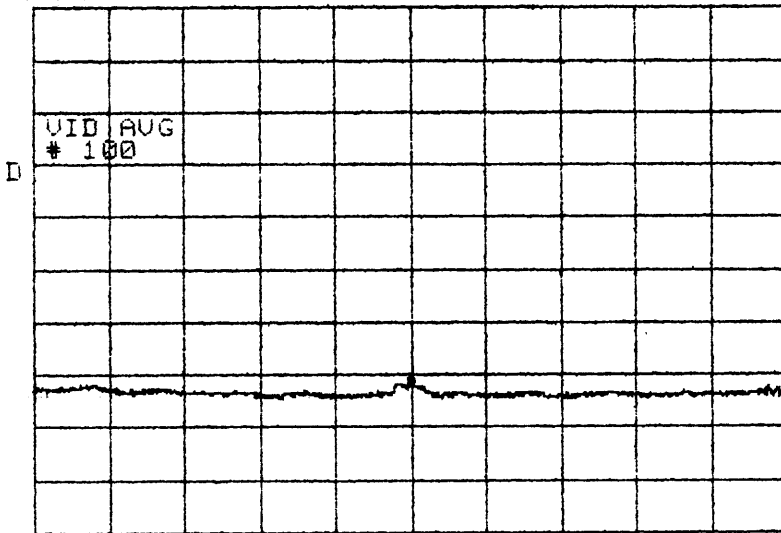
NPTx – Northpoint Transmitter.

*Note - tried boom up - no increase in NP signal*

DTV

E-0.5

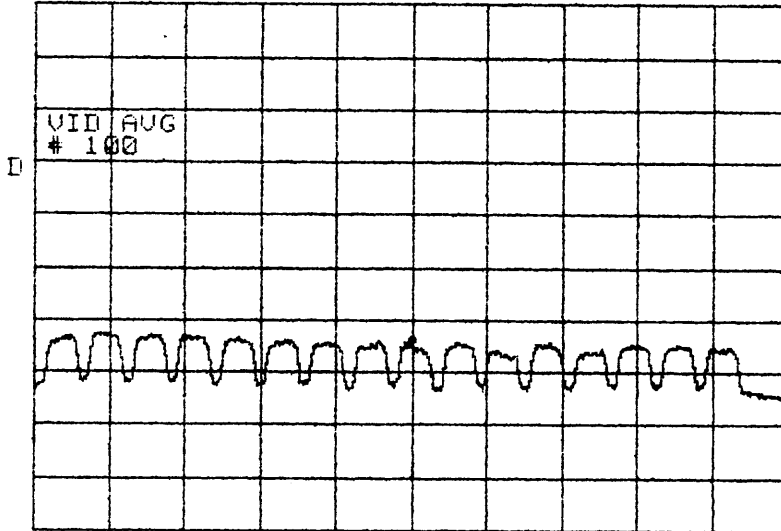
ATTEN 10dB UAUG 100 MKR -72.33dBm  
RL 0dBm 10dB/ 1.2200GHz



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

9A-1

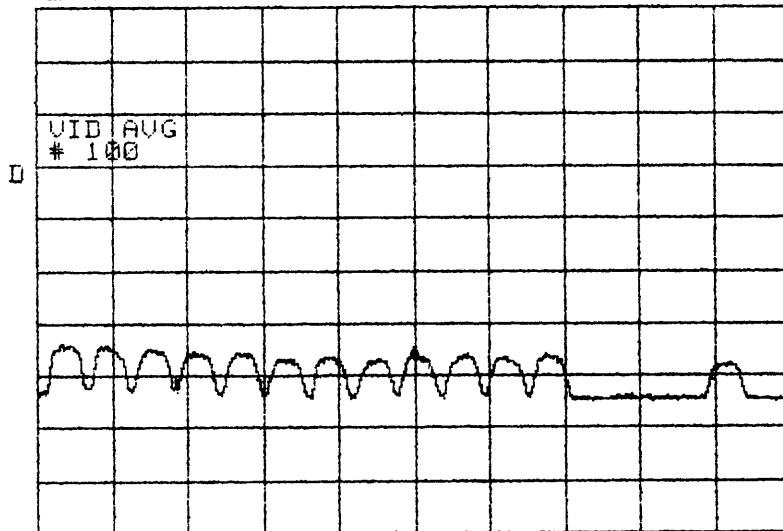
ATTEN 10dB    VAUG 100    MKR -65.00dBm  
RL 0dBm        10dB/    1.2200GHz



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

GA-2a

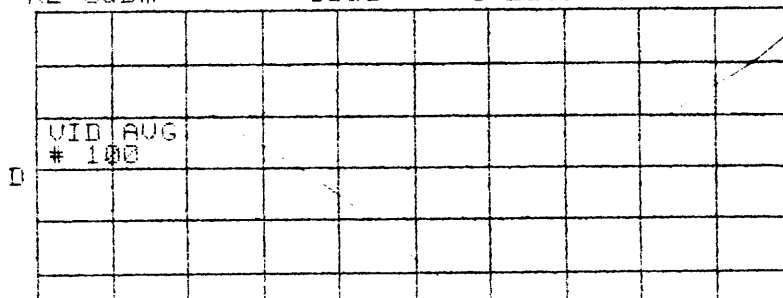
ATTEN 10dB    VAUG 100    MKR -66.67dBm  
RL 0dBm        10dB/        1.2200GHz



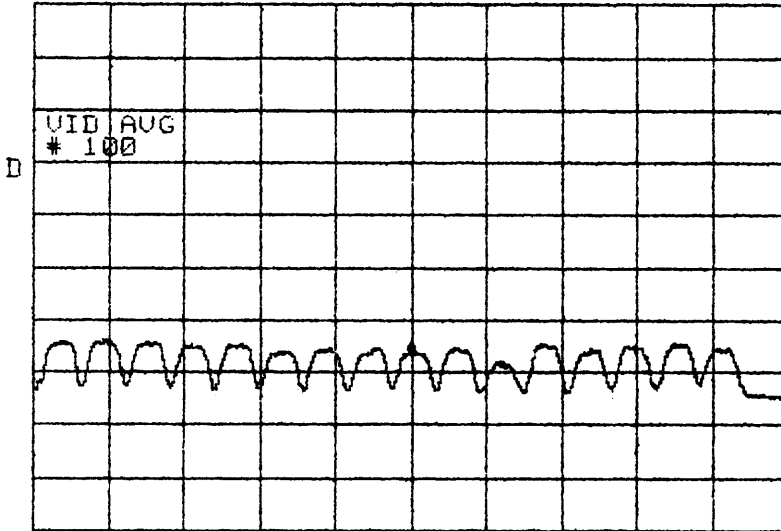
CENTER 1.2200GHz    SPAN 500.0MHz  
RBW 1.0MHz        \*UBW 10kHz        SWP 130ms

QA-26

ATTEN 10dB    VAUG 100    MKR -65.17dBm  
RL 0dBm        10dB/        1.2200GHz



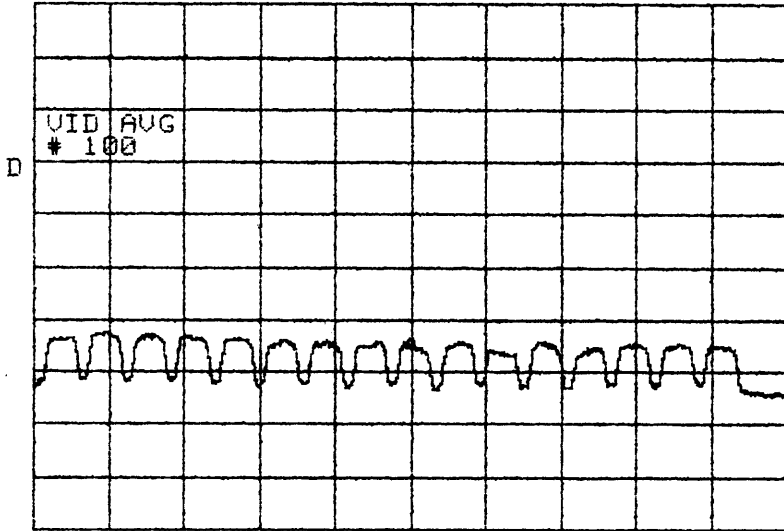
ATTEN 10dB VAUG 100 MKR -66.33dBm  
RL 0dBm 10dB/ 1.2200GHz



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

9A-2c

ATTEN 10dB    VAVG 100    MKR -65.50dBm  
RL 0dBm        10dB/        1.2200GHz

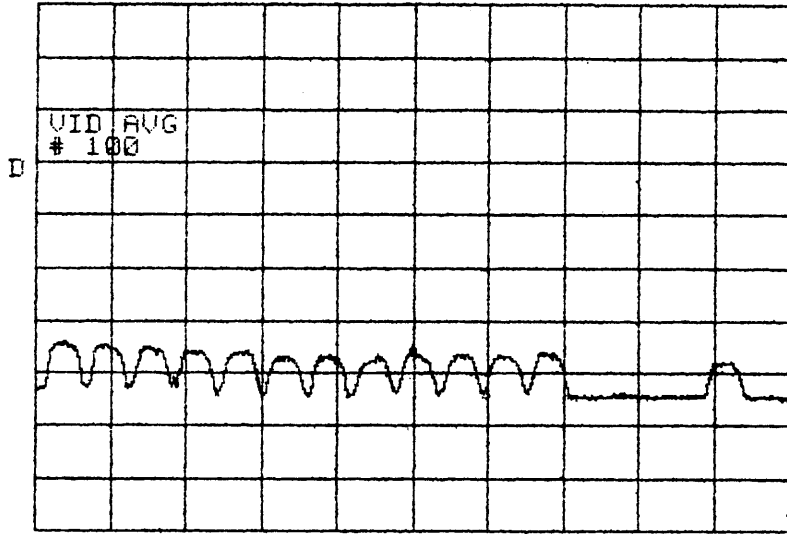


CENTER 1.2200GHz            SPAN 500.0MHz  
RBW 1.0MHz        \*UBW 10kHz        SWP 130ms

*GA-3a*



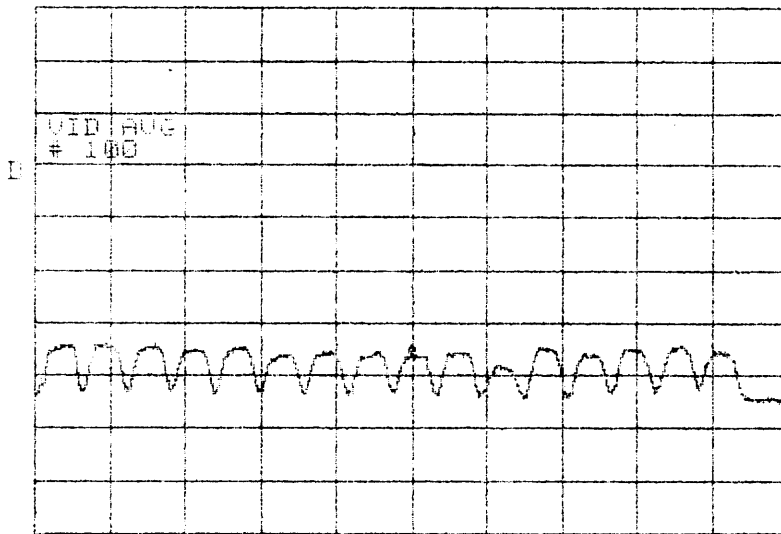
ATTEN 10dB    UAVG 100    MKR -66.67dBm  
RL 0dBm       10dB/     1.2200GHz



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

9  
A-36

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



CENTER 1.2200GHz SPAN 500.0MHz  
RBW 1.0MHz \*VBW 10.0Hz SVP 150ms

GA-3C

# Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

## Rx Site Location Log

Rx Site No. 9A p1  
Set: 1

Site Name: 4100 WOODRIDGE AVE, S.W.  
VALLEY MILLS

Date / Time: 8/11/99 EDT

Operator: EJOD NELSON

GPS Receiver Reading at Site:

Lat: ~~38~~ N 38° 44' 49" J

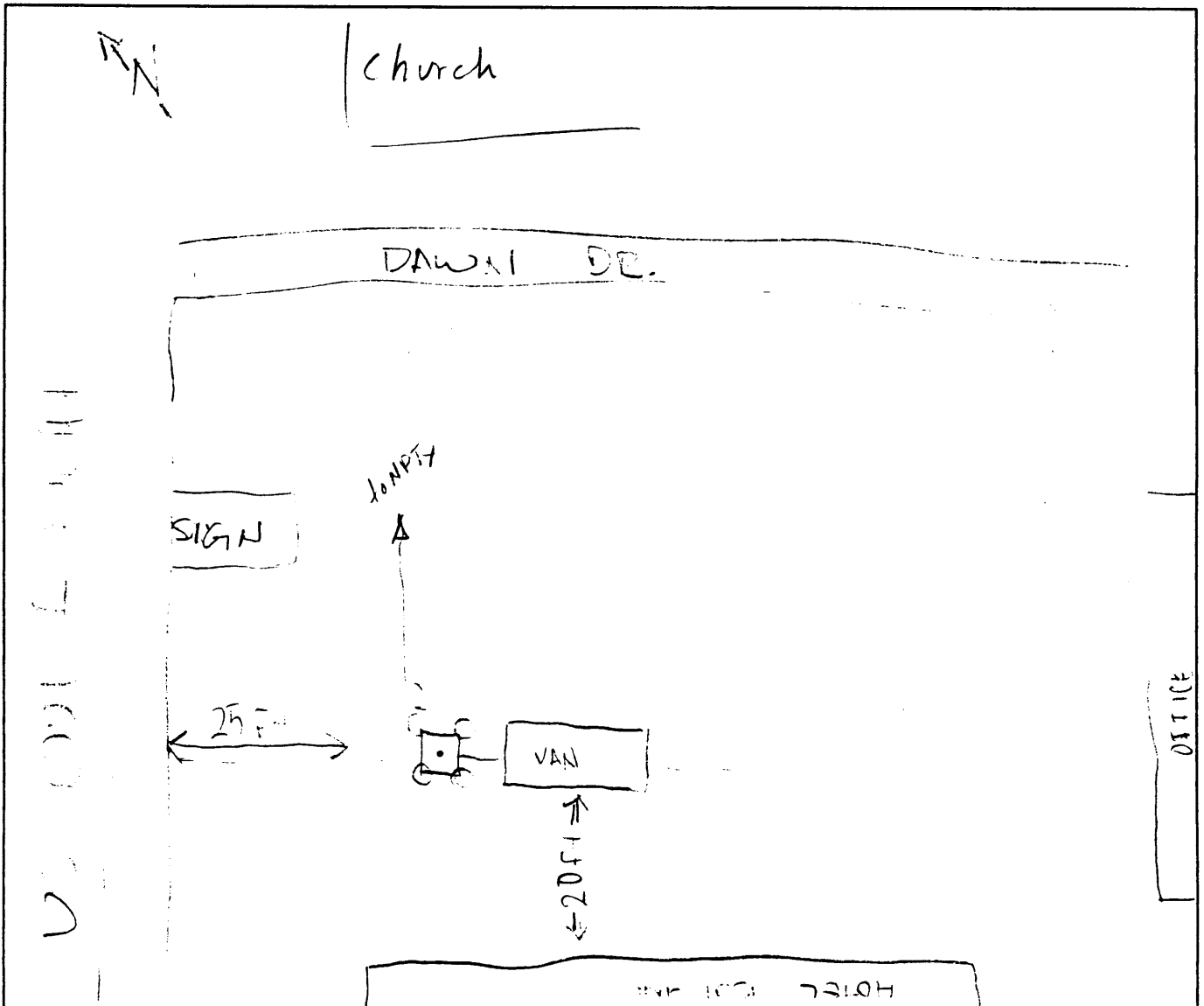
Time Read 2:08 GMT  
EDT

Lon: W 077° 04' 45" J

Elev: 442 FT

Weather: Clear to PC  
~90°F

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



## **COMMENTS FROM SITE 7**

Site 7 Arlington Cemetery

Date: August 27, 1999

Weather Conditions: Partly cloudy; Temp 85°

Comments:

Northpoint Technology – DBS Compatibility Test – Washington DC Area

**Rx Site Data Log**

Arlington Cen

Rx Site No.

Repeat  
p1

Set:

Re: Rx Condx Ref. No.

Date / Time:

EDT

Re: Tx Condx Ref. No.

Operator:

**Data Measurements:** Phase II Test w/ Lucent Encoder (multi TV chan!)

NPTx Carrier Freq. (GHz)

Disk Filename

(1) NP Signal – NPTx ON: See note -

NP	Ant: DBS1
Power (Px) -51.67dB	TV Pix OK
Plot ID 7-1	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) -66.83dB	TV Pix	Plot ID 7-2b
File Rec	-	

Sat 3	ES(61.5)	Ant: NP2
Power (Px) -66.33dB	TV Pix	Plot ID 7-2c
File Rec	-	

Sat 4	ES(119)	Ant: NP4
Power (Px) -66.93dB	TV Pix	Plot ID 7-2d
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) -66.00dB	TV Pix	Plot ID 7-3b
File Rec	-	

Sat 3	ES(61.5)	Ant: NP2
Power (Px) -65.93dB	TV Pix	Plot ID 7-3c
File Rec	-	

Sat 4	ES(119)	Ant: NP4
Power (Px) -67.33dB	TV Pix	Plot ID 7-3d
File Rec	-	

Note:  
(4) NPTx OFF. Weather partly cloudy and temp. around 85°

**Northpoint Technology – DBS Compatibililty Test – Washington DC Area**

**Rx Site Data Log**

Rx Site No. 7 ← Repeat p2  
 Set: 1

**Signal Strength Pointer (ssp) Data --**

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-18	83	80	80	78	81	83	81	81	82	79	Avg:	80.8
Sat 3	T-18	93	93	93	93	92	93	93	93	93	93	Avg:	92.9
Sat 4	T-18	89	89	89	89	89	89	89	89	89	89	Avg:	89.0

(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-18	81	82	82	84	78	82	80	79	83	82	Avg:	81.3
Sat 3	T-18	93	93	92	93	93	93	93	93	93	93	Avg:	92.9
Sat 4	T-18	87	87	87	87	87	87	87	87	87	87	Avg:	87.0

**Legend // Comments:**

NPTx – Northpoint Transmitter.

Note - 4 ea distinct live TV feeds were input to Lucent provided encoder. 2 ea channels were duplicated to provide a total of 6 ea independent TV channels via NP signal.

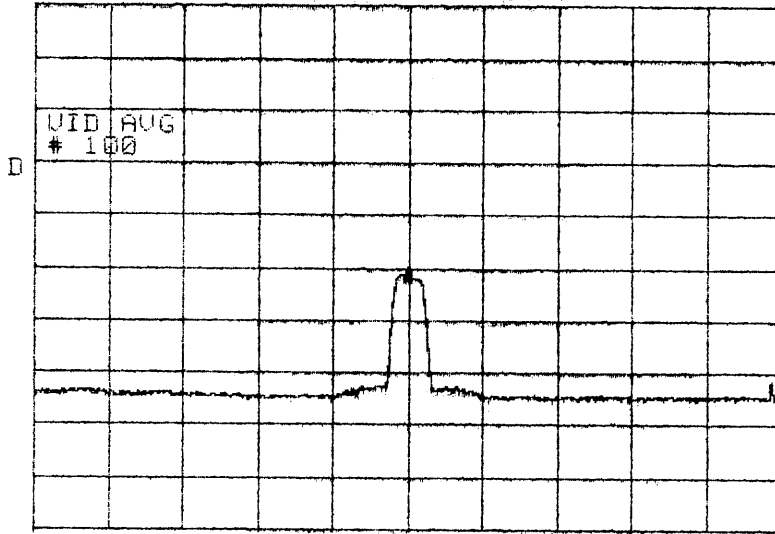
these 6 channels were individually monitored at the Rx var at this site 7.

8/27/99

7-1

Adura

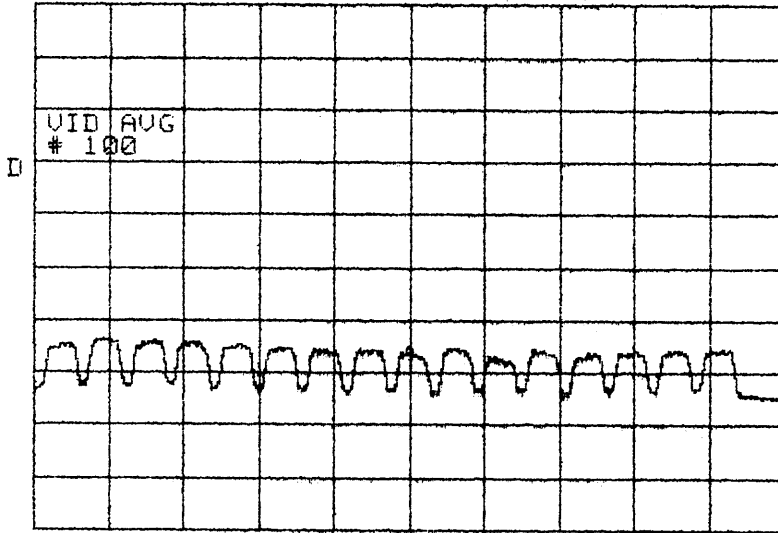
ATTEN 10dB    VAWG 100    MKR -61.67dBm  
RL 0dBm       10dB/       1.2200GHz



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

8/27/99  
7-2b  
Adura

ATTEN 10dB    VAUG 100    MKR -66.83dBm  
RL 0dBm        10dB/        1.2200GHz

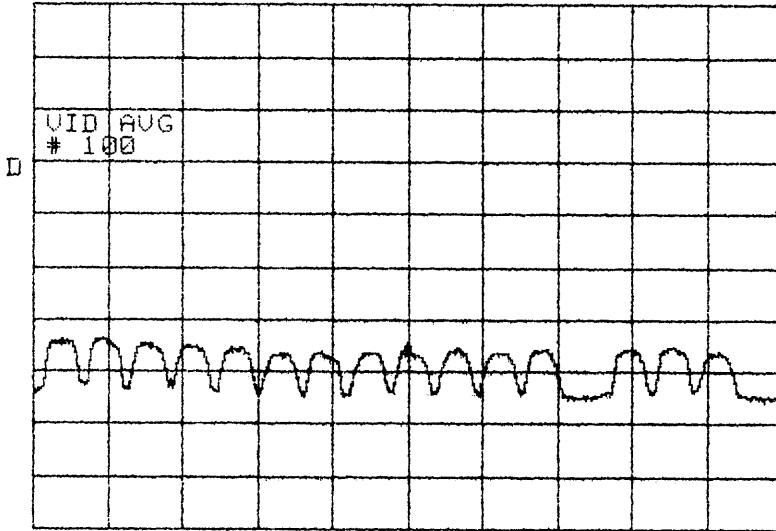


CENTER 1.2200GHz    SPAN 500.0MHz  
RBW 1.0MHz        \*UBW 10kHz        SWP 130ms



0121149  
7-20  
Adura

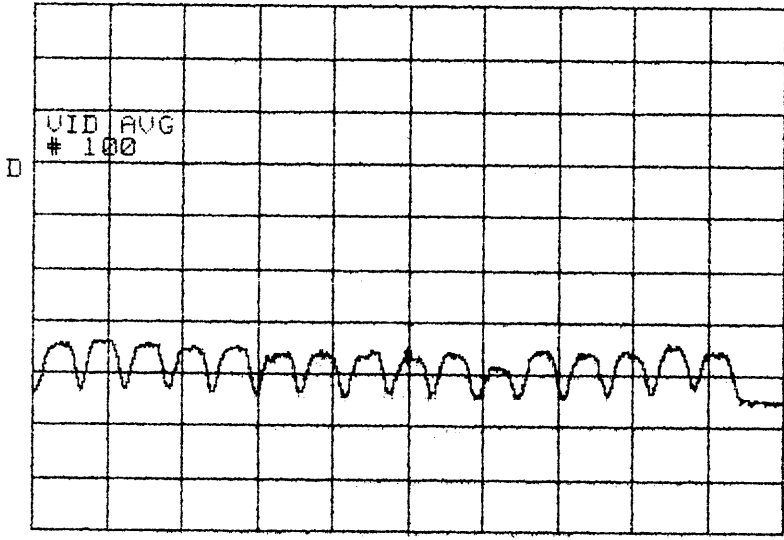
ATTEN 10dB    VAVG 100    MKR -66.33dBm  
RL 0dBm       10dB/       1.2200GHz



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

8/27/99  
7-2d  
Adura

ATTEN 10dB    VAVG 100    MKR -66.83dBm  
RL 0dBm        10dB/        1.2200GHz



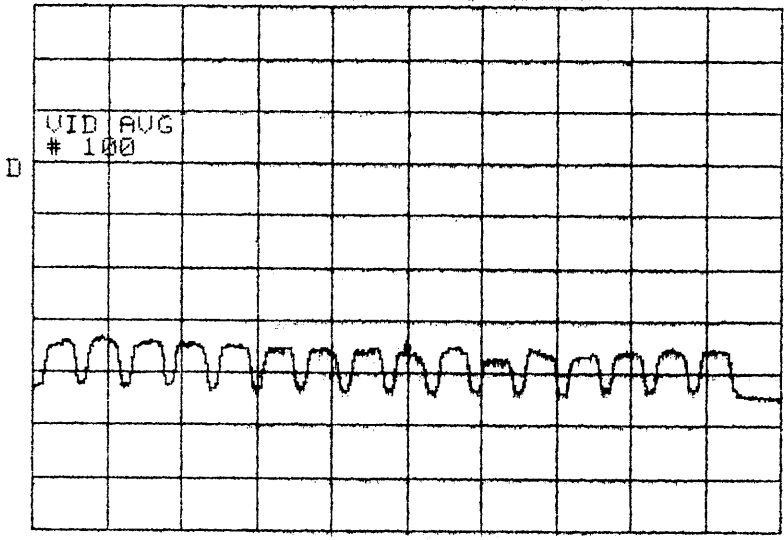
CENTER 1.2200GHz    SPAN 500.0MHz  
RBW 1.0MHz        \*VBW 10kHz        SWP 130ms

8/27/99

7-36

Adams

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



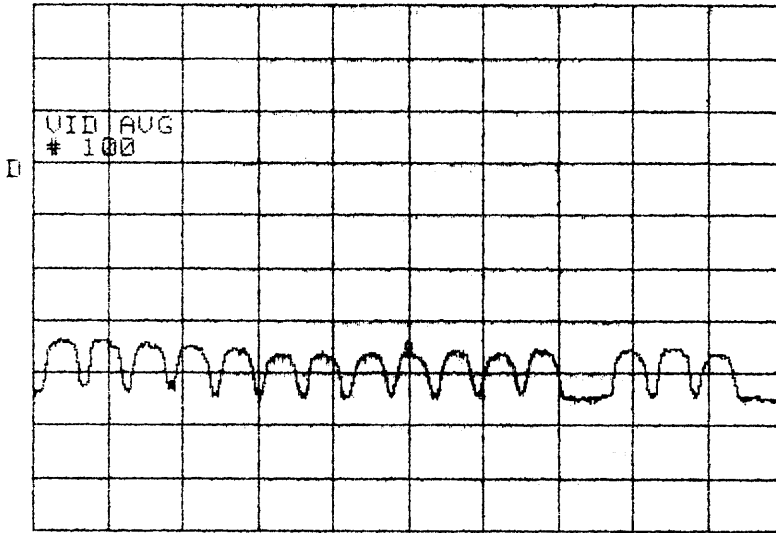
CENTER 1.2200GHz    SPAN 500.0MHz  
RBW 1.0MHz        \*VBW 10kHz        SWP 130ms

8/27/99

7-3C

Adura

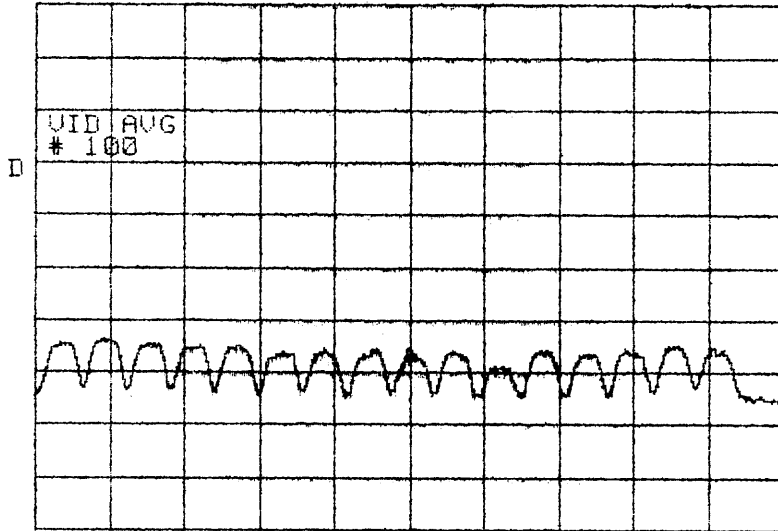
ATTEN 10dB    VAUG 100    MKR -85.83dBm  
RL 0dBm        10dB/     1.2200GHz



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

8/27/99  
7-3d  
Adura

ATTEN 10dB    UAUG 100    MKR -67.33dBm  
RL 0dBm       10dB/    1.2200GHz



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

## **COMMENTS FROM SITE R2**

Site R2 Goodyear (Bladensburg Road, Washington DC)

Date: September 2, 1999

Weather Conditions: Overcast; thin clouds; Temp 85°

Comments:

# Northpoint Technology – DBS Compatibility Test – Washington DC Area

## Rx Site Data Log

Good Year Tire Store  
(Directly opp the Repeater Station)

Rx Site No. R2

p1

Set: 21

Re: Rx Condx Ref. No. 1

Date / Time: 09/02/99 16:25 EDT

Re: Tx Condx Ref. No. 1

Operator: Adura

### Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename —

#### (1) NP Signal – NPTx ON:

	NPTx	Ant: DBS 1			
Power (Px)	-62.00dB	TV Pix	OK	Plot ID	R2-1
				File Rec	—

*see note.*

#### (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)	-67.67dB	TV Pix		Plot ID	R2-2b
				File Rec	—

Sat 3	ES (6.5)	Ant: NP2			
Power (Px)	-65.83dB	TV Pix		Plot ID	R2-2c
				File Rec	—

Sat 4	ES (119)	Ant: NP4			
Power (Px)	-68.33dB	TV Pix		Plot ID	R2-2d
				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)	-67.17dB	TV Pix		Plot ID	R2-3b
				File Rec	—

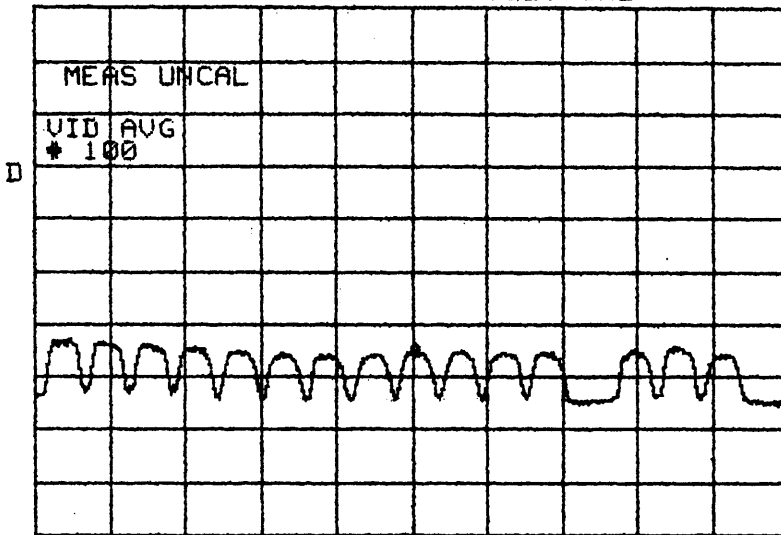
Sat 3	ES (6.5)	Ant: NP2			
Power (Px)	-65.67dB	TV Pix		Plot ID	R2-3c
				File Rec	—

Sat 4	ES (119)	Ant: NP4			
Power (Px)	-68.17dB	TV Pix		Plot ID	R2-3d
				File Rec	—

#### (4) NPTx OFF.

09/02/99  
R1-2C  
AUSA

ATTEN 10dB    VAVG 100    MKR -65.50dBm  
RL 0dBm      10dB/      1.2217GHz

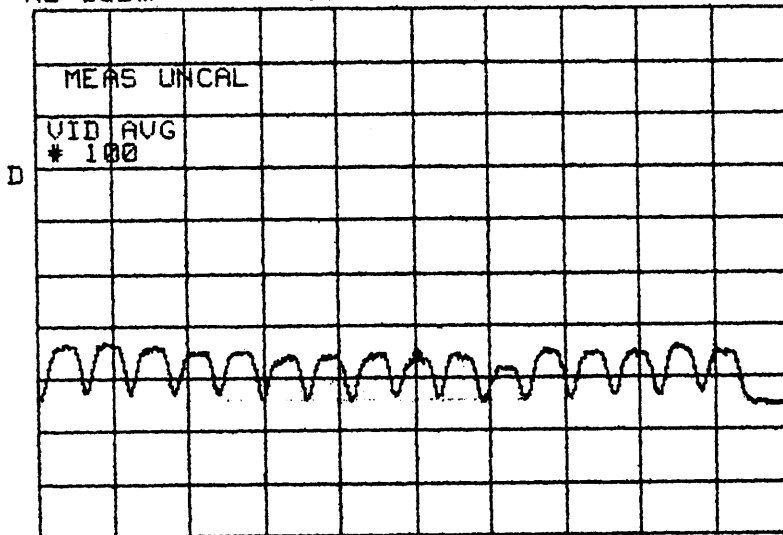


CENTER 1.2200GHz      SPAN 500.0MHz  
RBW 1.0MHz      \*VBW 10kHz      \*SWP 02.5ms



11-7-17  
R1-2d  
Adura

ATTEN 10dB VAUG 100 MKR -66.67dBm  
RL 0dBm 10dB/ 1.2217GHz



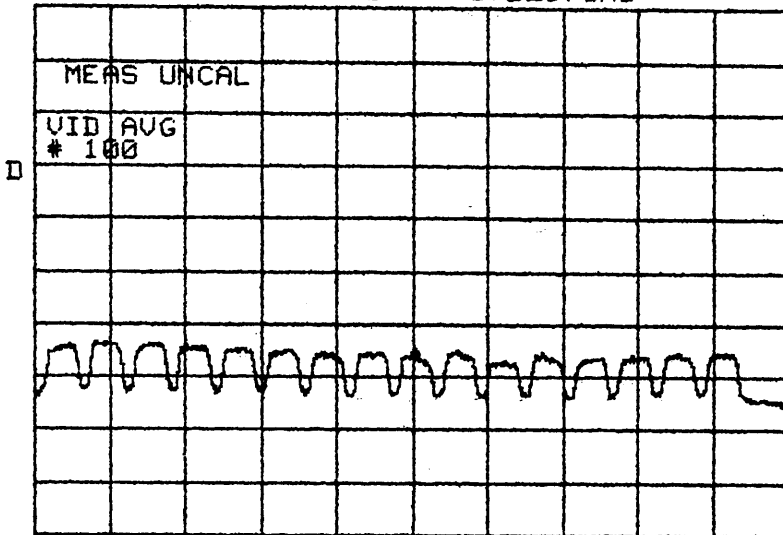
CENTER 1.2200GHz SPAN 500.0MHz  
RBW 1.0MHz \*UBW 10kHz \*SWP 82.5ms

09/02/99

R1-36

Adura

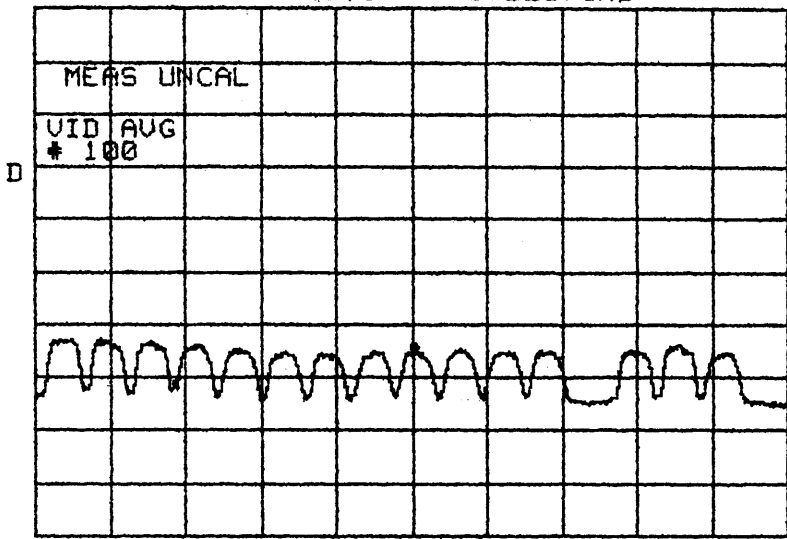
ATTEN 10dB    UAVG 100    MKR -66.67dBm  
RL 0dBm        10dB/        1.2217GHz



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

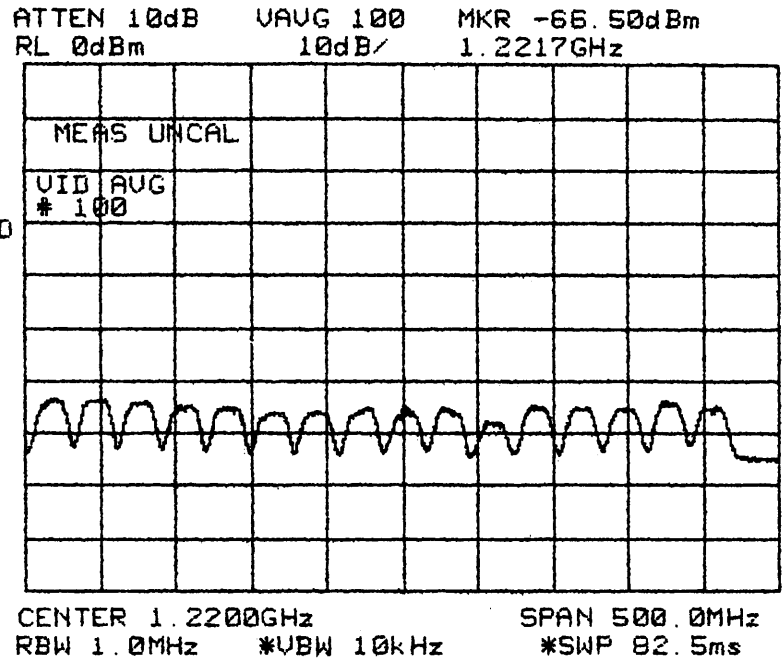
09/02/99  
R1-3C  
Adura

ATTEN 10dB    VAUG 100    MKR -65.33dBm  
RL 0dBm        10dB/        1.2217GHz



CENTER 1.2200GHz    SPAN 500.0MHz  
RBW 1.0MHz        \*VBW 10kHz        \*SWP 02.5ms

09/02/99  
R1-3d  
Aduwa



# Northpoint Technology - DBS Compatibility Test - Washington DC Area

## Rx Site Location Log

Rx Site No. R1 p1  
Set: 2 /

Site Name:

Date / Time:

9/2/99 13:56 EDT

7-Eleven Store / Bladensburg

Operator:

Dlu

GPS Receiver Reading at Site:

Lat: N 38° 55.628'

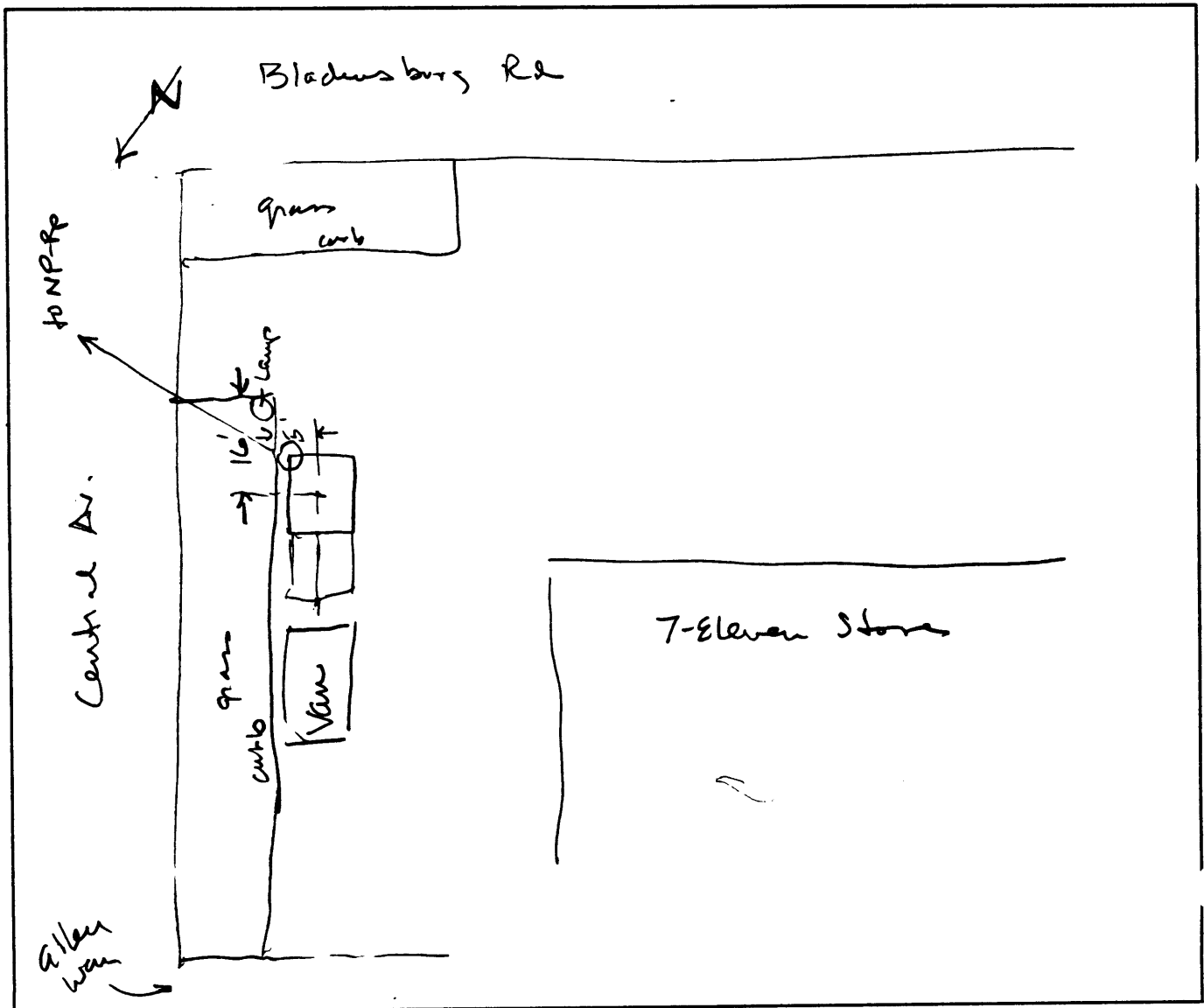
Time Read 1756 GMT  
EDT

Lon: W 076° 57.799'

Weather: <sup>80%</sup> 17C - HV OC  
~ 80-85°F

Elev: \_\_\_\_\_

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



# Northpoint Technology – DBS Compatibility Test – Washington DC Area

## Rx Site Data Log

Rx Site No. 2 p2  
 Set: 21

### Signal Strength Pointer (ssp) Data --

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-18	83	79	83	82	80	80	79	82	78	80	Avg:	80.6
Sat 3	T-18	95	95	95	95	94	95	95	95	95	95	Avg:	94.9
Sat 4	T-18	85	85	85	84	84	85	85	85	85	85	Avg:	84.8

(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-18	81	80	80	81	79	81	82	81	81	78	Avg:	80.4
Sat 3	T-18	95	95	96	95	95	95	96	96	95	95	Avg:	95.3
Sat 4	T-18	84	84	84	84	83	84	84	84	84	84	Avg:	83.9

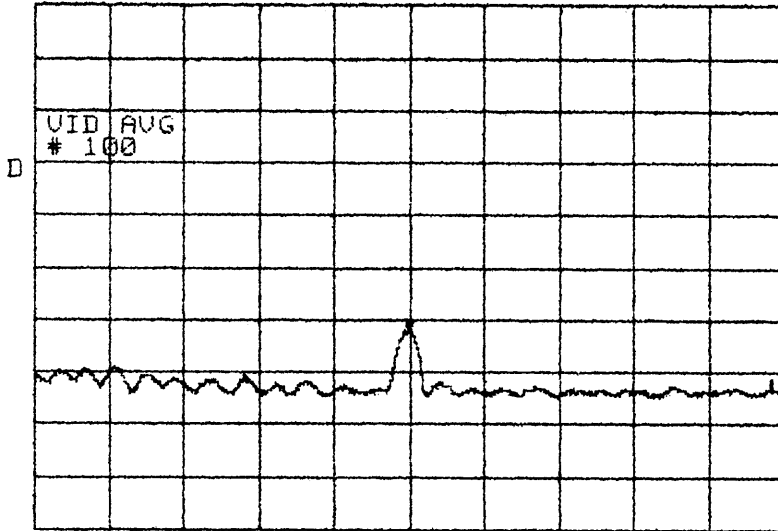
Legend // Comments:

NPTx – Northpoint Transmitter.

*Note: considerable effort was applied to examining the nature of the NP signal level (lower than last time at this site). It was determined that the repeater antenna was set back a few inches further from the building edge after the rev. this morning, and the signal at this site would be reduced.*

09/02/99  
R2-1  
Adura

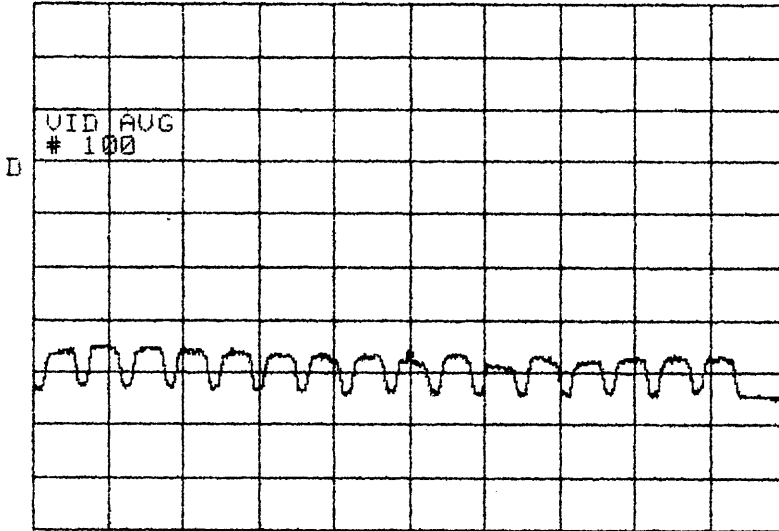
ATTEN 10dB    UAUG 100    MKR -62.00dBm  
RL 0dBm        10dB/    1.2200GHz



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

09/02/99  
R2-2b  
Adura

ATTEN 10dB    UAUG 100    MKR -67.67dBm  
RL 0dBm        10dB/        1.2200GHz

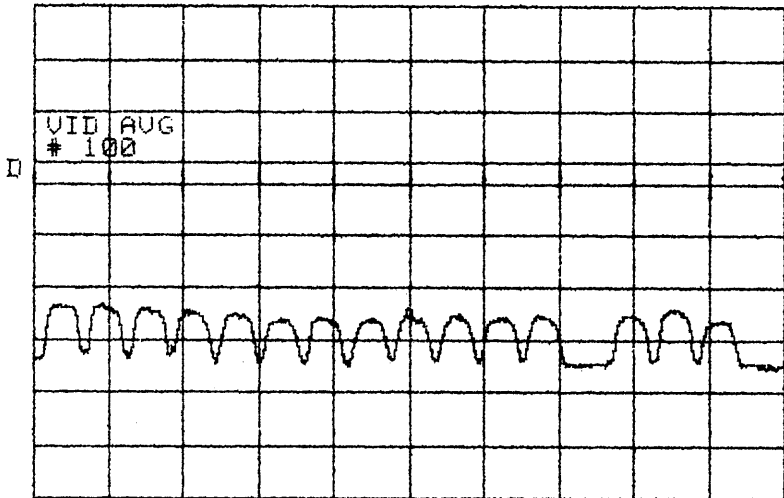


CENTER 1.2200GHz    SPAN 500.0MHz  
RBW 1.0MHz        \*VBW 10kHz        SWP 130ms



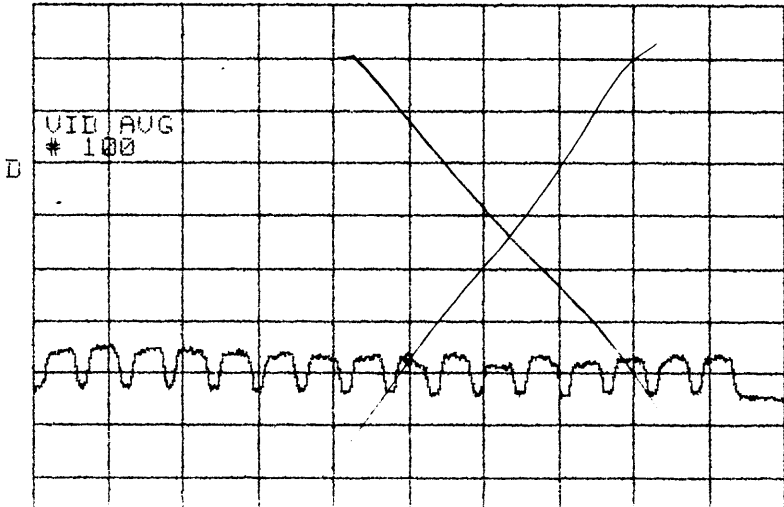
09/02/99  
R2-2c  
Acura

ATTEN 10dB    VAUG 100    MKR -65.83dBm  
RL 0dBm        10dB/        1.2200GHz



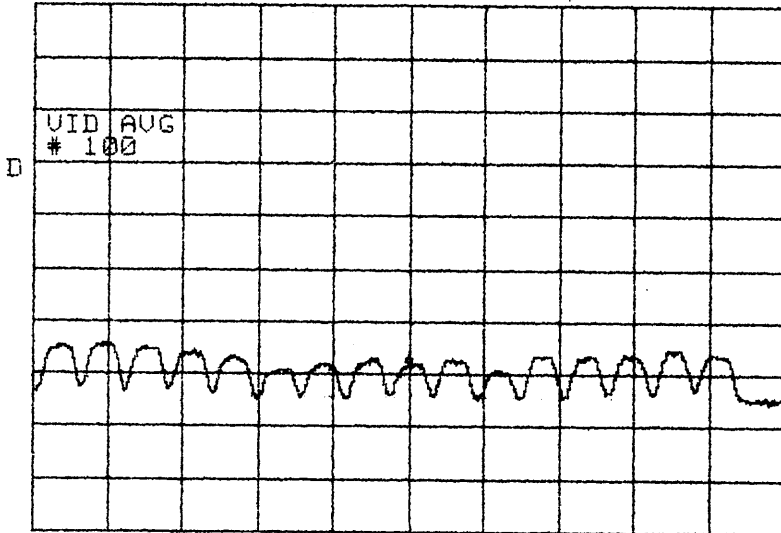
CENTER 1.2200GHz    SPAN 500.0MHz  
RBW 1.0MHz        \*VBW 10kHz        SWP 130ms

ATTEN 10dB    VAUG 100    MKR -68.00dBm  
RL 0dBm        10dB/        1.2200GHz



09/02/99  
R2-2d  
Adura

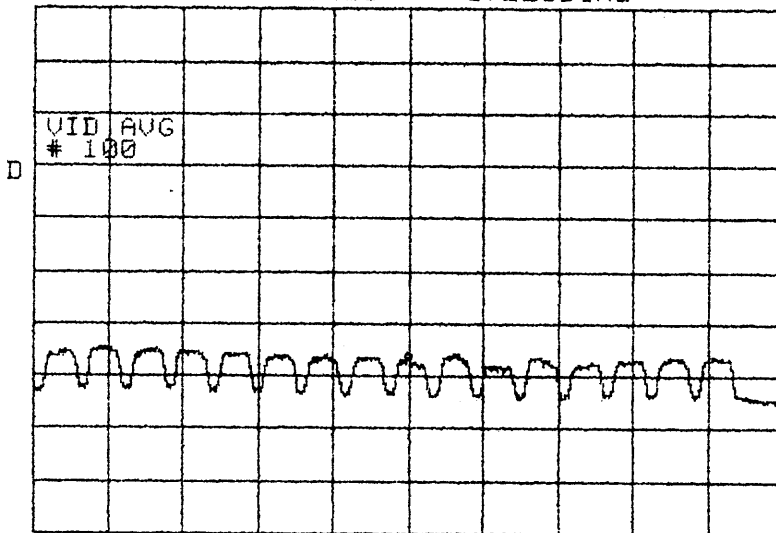
ATTEN 10dB    VAUG 100    MKR -68.33dBm  
RL 0dBm        10dB/     1.2200GHz



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

R2-36  
09/02/99  
Adure

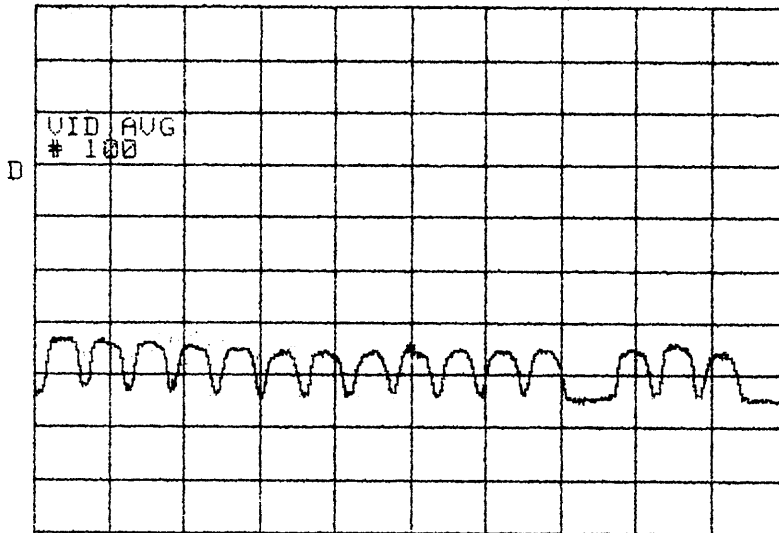
ATTEN 10dB    VAUG 100    MKR -57.17dBm  
RL 0dBm        10dB/        1.2200GHz



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

R2-3C  
09/02/99  
Adura

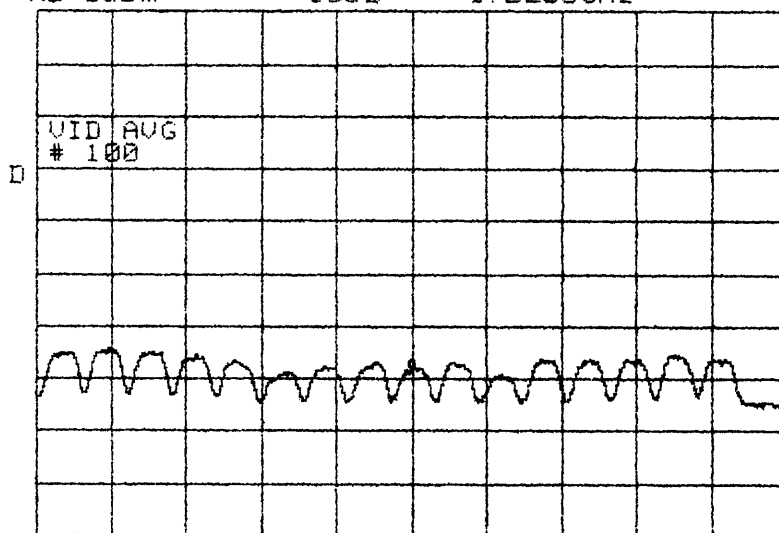
ATTEN 10dB    VAUG 100    MKR -65.67dBm  
RL 0dBm        10dB/        1.2200GHz



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

R2-3d  
04/02/99  
Adura

ATTEN 10dB    VAUG 100    MKR -68.17dBm  
RL 0dBm        10dB/        1.2200GHz



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

# Northpoint Technology – DBS Compatibility Test – Washington DC Area

## Rx Site Location Log

Rx Site No. R2 p1  
Set: 2 /

Site Name:

Date / Time:

9 / 02 / 99 16:21 EDT

Goodyear / Bladensburg Rd.

Operator:

Dm

GPS Receiver Reading at Site:

Lat: N 38° 55.733'

Time Read 20:23

GMT

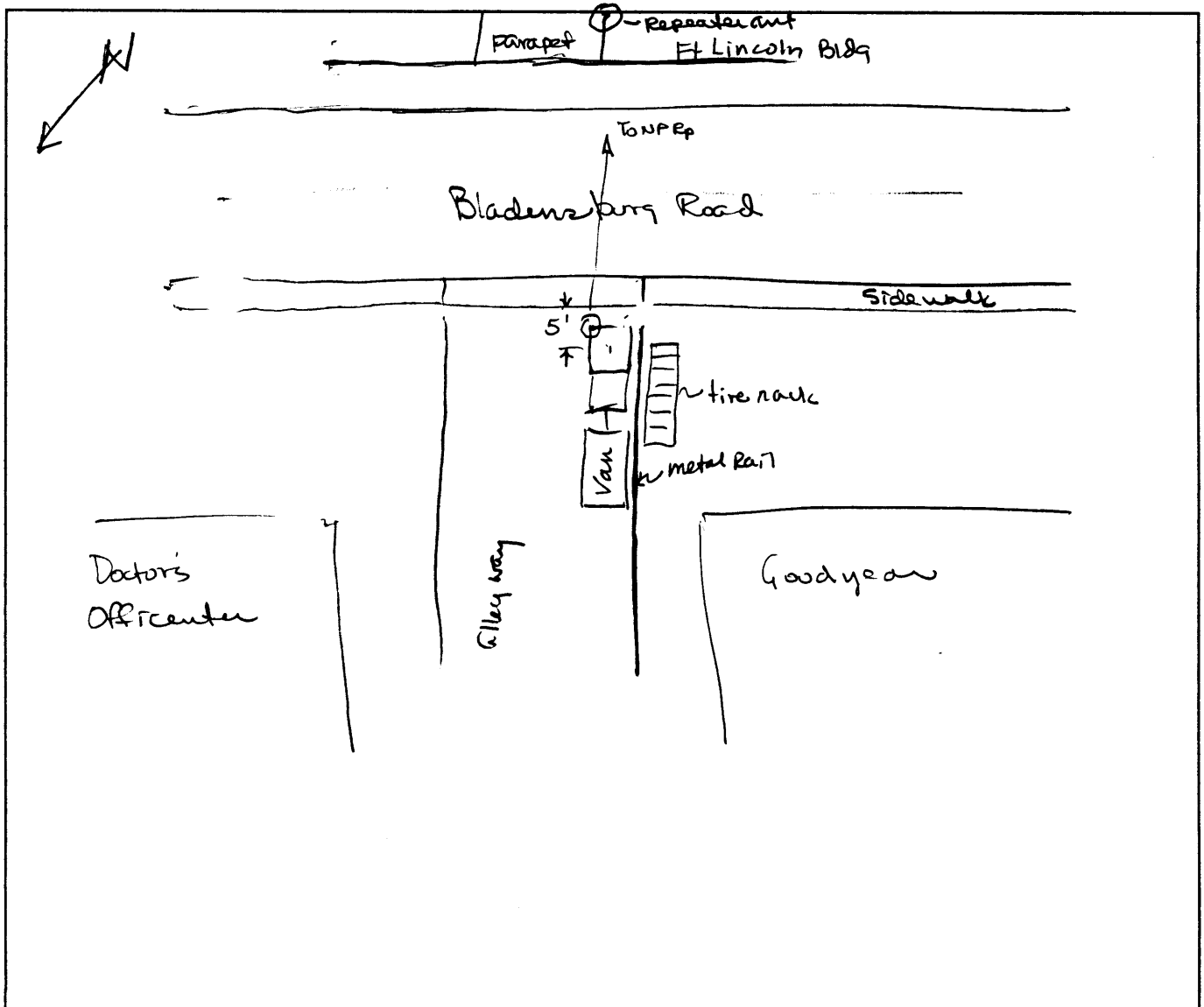
~~EDT~~

Lon: W 076° 57.654'

Elev:  

Weather: OC ~ 100%  
Thin clouds ~ 85°F

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



# 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. R2 p1

Set: 2 / 1

Re: Rx Condx Ref. No. 1

Date / Time: 9 / 02 / 99 17 : 11 EDT

Re: Tx Condx Ref. No. 1

Operator: *Dan*

**Data Measurements:**

Site R2 is across Bladensburg Rd. from Repeater.

NPTx Carrier Freq. (GHz)	<u>12:47</u>	NTC Filename	<u>log 9-2-99.dat</u>
Satellite Monitored	<u>E5 119</u>	Transponder	<u>T-18</u>

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

NPTx → NPRp (Repeater)

#	Time – EDT	Condition / Event
	17:25:30	start logging valid date – NPTx <b>OFF</b>
	17:27	wx – OC – very thin clouds, ~85°F; almost no breeze,
	17:30	Traffic – <u>~27</u> veh / min on Bladensburg Rd. *
	17:43:03	NPTx – <b>ON</b>
	17:44	wx – <u>~same</u> // Traffic ~ same.
	17:58	wx – <u>~same</u> // Traffic ~ same.
	18:14:34	NPTx – <b>OFF</b>
	18:16	wx – <u>~same</u> to S, sky beg. to clear to W.
	18:18	Traffic – <u>~19</u> veh./min.
	18:30:15	Stop logging – exit program.

\* Eto/Wto does not appear to be affected by Bladensburg traffic –