

COMMENTS FROM SITE 13A

Site 13A West Potomac Park

Date: September 27, 1999

Weather Conditions: Heavy overcast; light breeze; Temp 80°

Comments:

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log POTOMAC PARK Rx Site No. 13A p1
 Set: 1/1

Re: Rx Condx Ref. No. 1 Date / Time: 09/27/99 16:33 EDT
 Re: Tx Condx Ref. No. 1 Operator: Adura

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47 Disk Filename -

(1) NP Signal – NPTx ON:

	NP7x	Ant: DBS1		
Power (Px)	-55.67dB	TV Pix	Plot ID	13A-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)	-68.50dB	TV Pix	Plot ID	13A-2b
			File Rec	-

Sat 3	ES(61.5)	Ant: NP2		
Power (Px)	-66.67dB	TV Pix	Plot ID	13A-2c
			File Rec	-

Sat 4	ES(119)	Ant: NP4		
Power (Px)	-67.83dB	TV Pix	Plot ID	13A-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)	-68.17dB	TV Pix	Plot ID	13A-3b
			File Rec	-

Sat 3	ES(61.5)	Ant: NP2		
Power (Px)	-66.83dB	TV Pix	Plot ID	13A-3c
			File Rec	-

Sat 4	ES(119)	Ant: NP4		
Power (Px)	-68.17dB	TV Pix	Plot ID	13A-3d
			File Rec	-

(4) NPTx OFF.

Northpoint Technology – DBS Compatibililty Test – Washington DC Area

Rx Site Data Log

Rx Site No. 134 p2
 Set: 11

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-										Avg:		
Sat 2	T-18	82	83	81	84	83	81	81	85	83	82	Avg:	82.5
Sat 3	T-18	96	96	96	96	95	95	95	96	96	95	Avg:	95.6
Sat 4	T-18	85	85	84	85	87	86	86	86	85	86	Avg:	85.5

(3a) NPTx ON:

Sat 1	T-										Avg:		
Sat 2	T-18	85	85	84	85	87	86	86	80	82	85	Avg:	84.5
Sat 3	T-18	93	91	93	93	94	93	93	92	93	93	Avg:	92.8
Sat 4	T-18	87	87	87	86	86	84	87	86	84	85	Avg:	85.9

Legend // Comments:

NPTx – Northpoint Transmitter.

Northpoint Technology - DBS Compatibility Test - Washington DC Area

Rx Site Location Log

Rx Site No. 13A

p1

Set: 1/1

Site Name:

Date / Time:

9/27/99 18:05 EDT

Potomac Park

Operator:

DLW

GPS Receiver Reading at Site:

Lat: N 38° 53.169'

Time Read 2216 ^{GMT} ~~EST~~

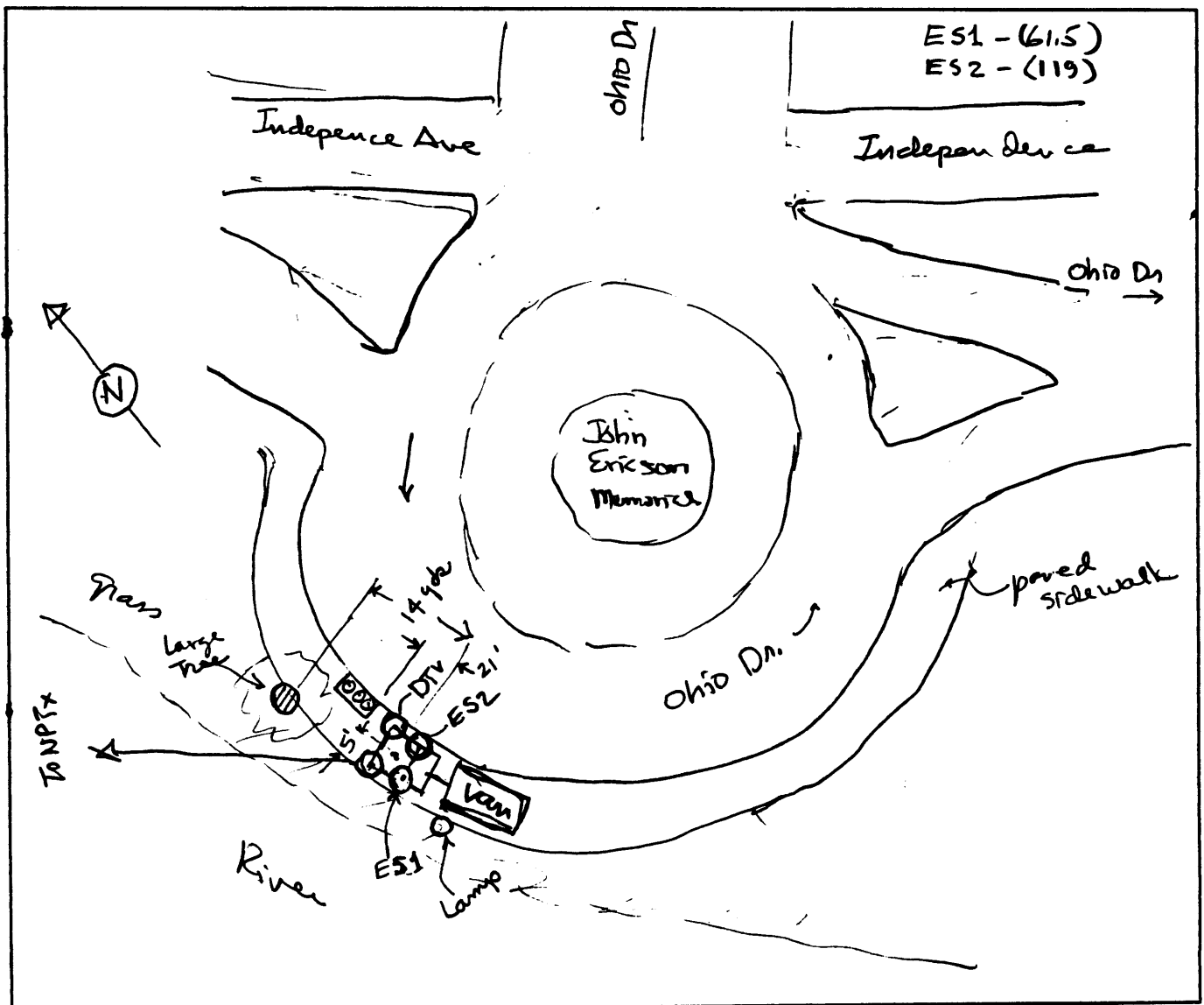
Lon: W 077° 02.992'

Elev: _____

Weather: KV OC
~80°F, light breeze.

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

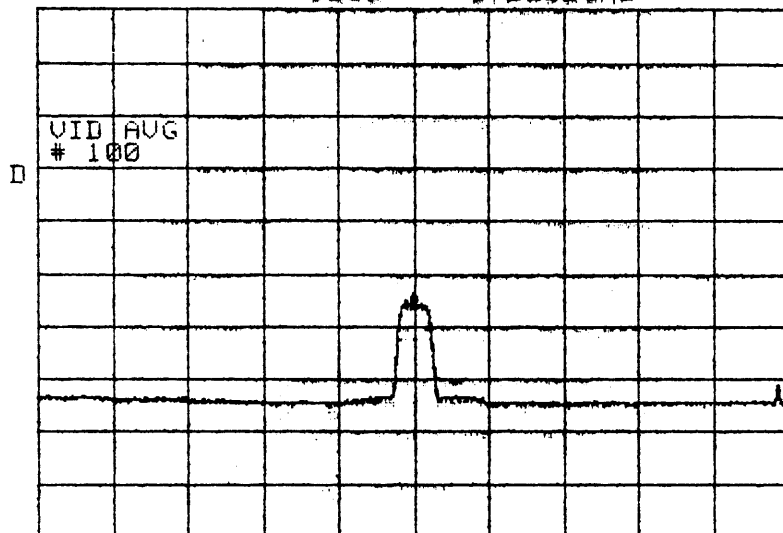
NOT to Scale!



09/27/99

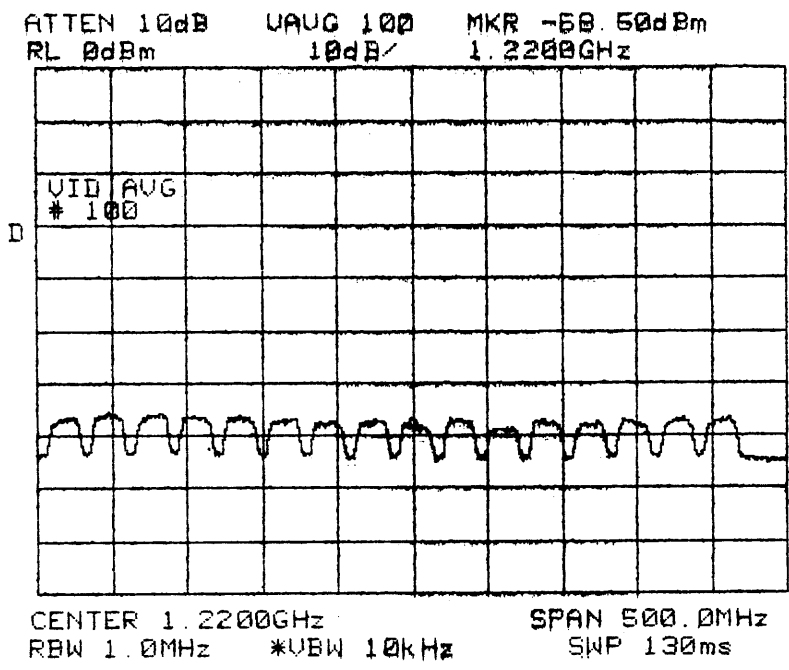
13A-1
~~Adura~~

ATTEN 10dB UAWG 100 MKR -55.67dBm
RL 0dBm 10dB/ 1.2200GHz



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

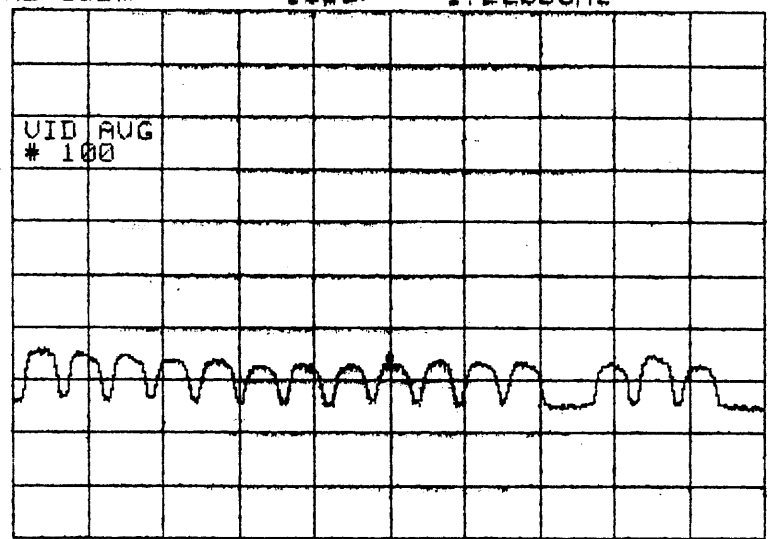
0110111
13A-2b
Adura



071-1111
13A-2C
Ahuq

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

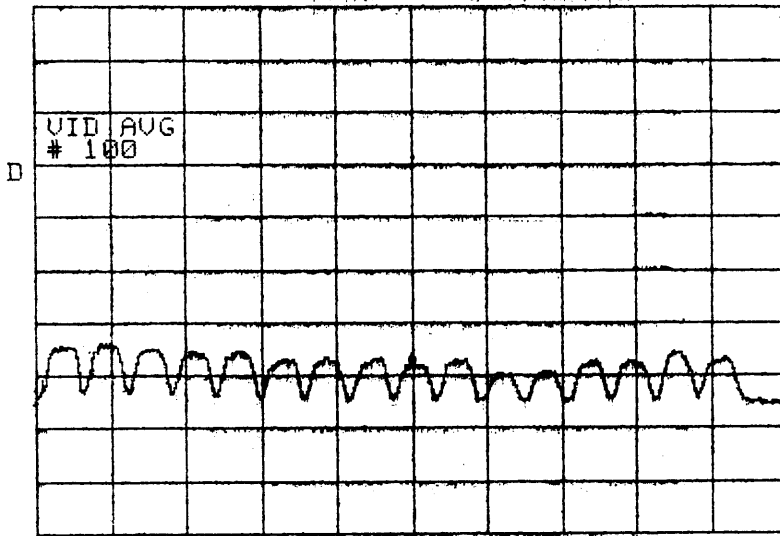
D



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

9/27/99
13A-2d
Alura

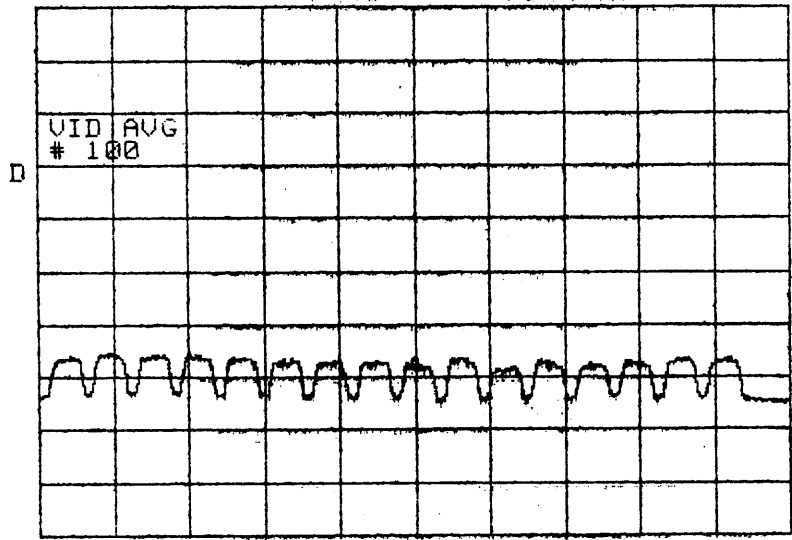
ATTEN 10dB VAUG 100 MKR -67.03dBm
RL 0dBm 10dB/ 1.2200GHz



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

09/27/99
13A-3b
Adura

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



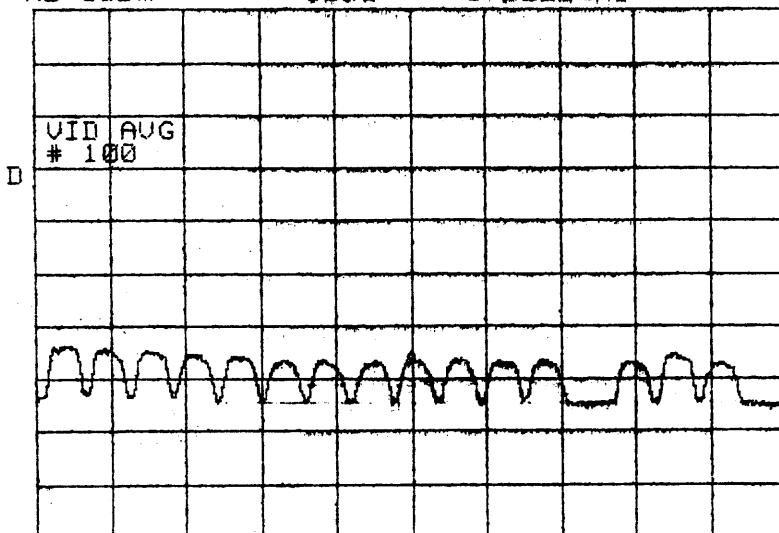
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

09/27/90

13A-3C

Adm

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



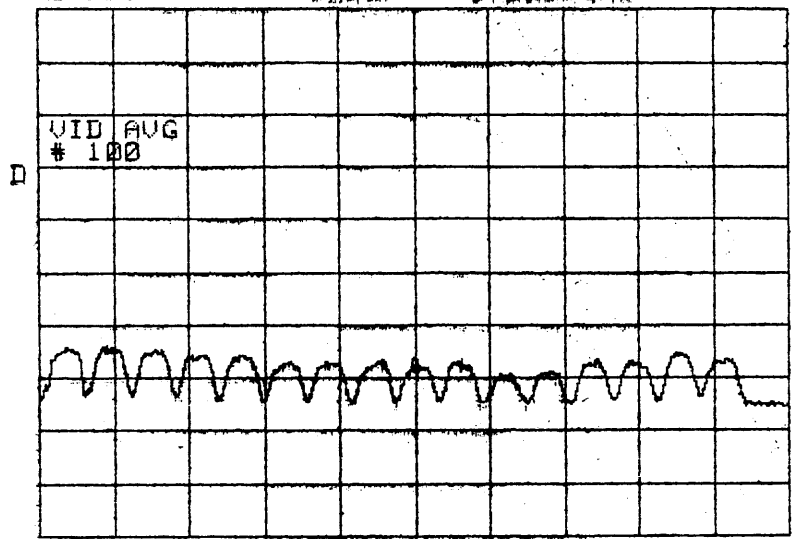
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

04/21/77

18A-3d

Adura

ATTEN 10dB VAVG 100 MKR -60.17dBm
RL 0dBm 10dB/ 1.2200GHz



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

COMMENTS FROM SITE R7

Site R7 400 North Capitol

Date: September 5, 1999

Weather Conditions: Overcast; intermittent rain*; wind gusting; Temp 80-85°

Comments: *Not operating when raining.

Northpoint Technology - DBS Compatibililty Test - Washington DC Area

Rx Site Data Log - Repeater Tests

NP Office Roof

400 N. Cap.

Rx Site No.

R7

p1

Set:

1

Re: Rx Condx Ref. No.

2

Date / Time:

9/5/99 14:55 EDT

Re: Tx Condx Ref. No.

2

Operator:

Dmw

Data Measurements: (One Repeater in Operation - NPRp).

NPTx / NPRp overlap zone test.

NPTx Carrier Freq. (GHz) 12.47

NPRp Carrier Freq. (GHz) 12.47

Disk Filename X

(1) NP Signal - NPTx ON // NPRp OFF:

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

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

(1) NP Signal - NPTx ON // NPRp ON:

NPTx		Ant:			
Power (Px)	-66.67	TV Pix	OK	Plot ID	R7-1c
				File Rec	X

NPRp		Ant:			
Power (Px)	-69.50	TV Pix	OK	Plot ID	R7-1d
				File Rec	X

NOTES:

VLSI Box - DTV (DBS)

NPTx/NPRp OFF - Freq 1221.749 MHz

All locked
 Sym Rate 20 MB
 Viterbi Rate 2/3
 Spec Inv NO
 Gain 2.0

BER Plot name
 BWDSS 1
 1452 - 1501 EDT

uncorr count 0

BER < 10⁻⁹
 AGC 116
 Level 98
 NEST 42
 Graph BER < 10⁻⁹

NPTx/NPRp ON - Freq 1221.749 MHz

All locked
 Sym Rate 20 MB
 Viterbi 2/3
 Spec Inv NO
 Gain 1.0

BER plot name
 BWDSS 2

1517 - 1521 EDT
 uncorr count 0

BER < 10⁻⁹
 AGC 176
 Level 98
 NEST 40
 Graph BER

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Data Log – Repeater Tests

Rx Site No. e7 p1
 Set: 1/1

Re: Rx Condx Ref. No. 2

Date / Time: 9/15/99 14:35 EDT

Re: Tx Condx Ref. No. 2

Operator: *[Signature]*

Data Measurements: (One Repeater in Operation – NPRp).

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

Sat 1		Ant:		Plot ID		File Rec	
	Power (Px)		TV Pix				
Sat 2	DTV (101)	Ant:	NP1	Plot ID	R7-2b	File Rec	
	Power (Px)		TV Pix				
Sat 3	E1 (61.5)	Ant:	NP1	Plot ID	R7-2c	File Rec	
	Power (Px)		TV Pix				
Sat 4	E2 (119)	Ant:	NP1	Plot ID	R7-2d	File Rec	
	Power (Px)		TV Pix				

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

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

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

Sat 1		Ant:		Plot ID		File Rec	
	Power (Px)		TV Pix				
Sat 2	DTV (101)	Ant:	NP1	Plot ID	R7-4b	File Rec	
	Power (Px)		TV Pix				
Sat 3	E1 (61.5)	Ant:	NP1	Plot ID	R7-4c	File Rec	
	Power (Px)		TV Pix				
Sat 4	E2 (119)	Ant:	NP1	Plot ID	R7-4d	File Rec	
	Power (Px)		TV Pix				

(5) NPTx OFF.

Northpoint Technology – DBS Compatibililty Test – Washington DC Area

Rx Site Data Log

NP Office - 4000 Cap.
Roof

Rx Site No.

27

p3

Set:

11

Signal Strength Pointer (ssp) Data --

(2a) NPTx OFF // NPRp OFF:

Sat 1	T-											Avg:	
Sat 2	T-18	82	80	78	80	81	82	80	82	80	79	Avg:	80.4
Sat 3	T-18	97	98	97	98	97	97	97	97	97	98	Avg:	97.3
Sat 4	T-18	88	89	87	88	87	88	88	87	89	88	Avg:	87.9

(3a) NPTx ON // NPRp OFF:

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

(4a) NPTx ON // NPRp ON:

Sat 1	T-											Avg:	
Sat 2	T-18	81	82	78	81	82	78	82	80	79	81	Avg:	80.2
Sat 3	T-18	97	97	97	97	98	97	97	97	97	97	Avg:	97.1
Sat 4	T-18	87	88	88	89	88	87	88	87	87	88	Avg:	87.7

Legend // Comments:

NPTx – Northpoint Transmitter.

NPRp – Northpoint Repeater

9/5/99 *am*

Site R7

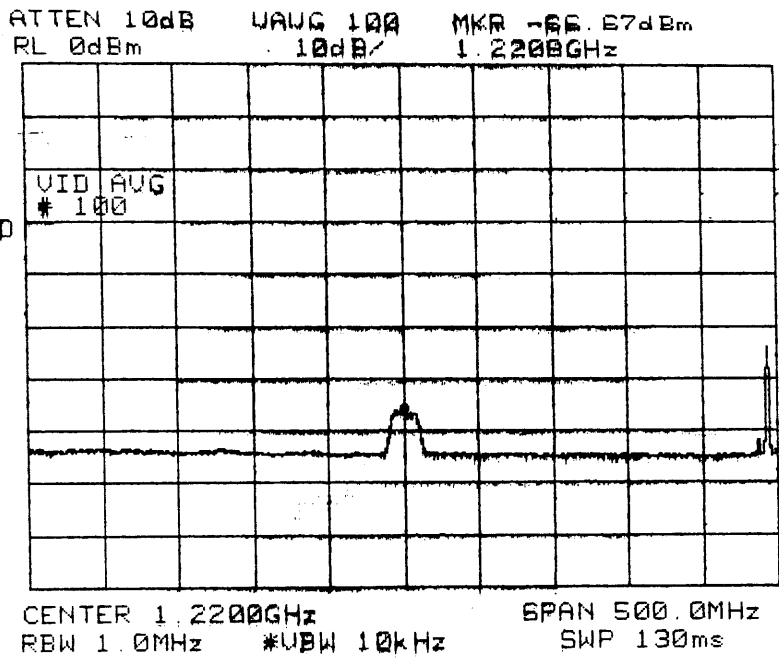
WLSI Box Data - ES1 (61.5)

Data	Tx/Rp - <u>OFF</u>	<u>ON</u>
BER	$< 10^{-9}$	$< 10^{-9}$
AGC	170	170
LEVEL	94	93
NEST	27	26
Viterbi Rate	3/4	3/4
Gain	1.0	1.0
Spec Inv	No	No

ES2 (119)

BER	$< 10^{-9}$	$< 10^{-9}$
AGC	177	177
LEVEL	94	94
NEST	31	31
Viterbi Rate	3/4	3/4
Gain	No	No
Spec Inv	1.0	1.0

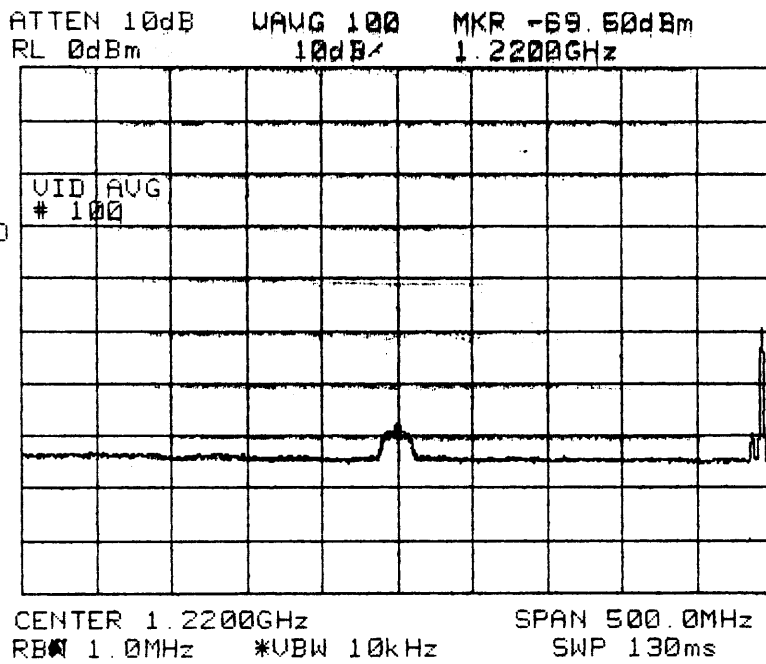
9/5/99
R7-IC
(NPTx 517)



9/5/99 DAW

R7-1d

(Repeater NPR signal)



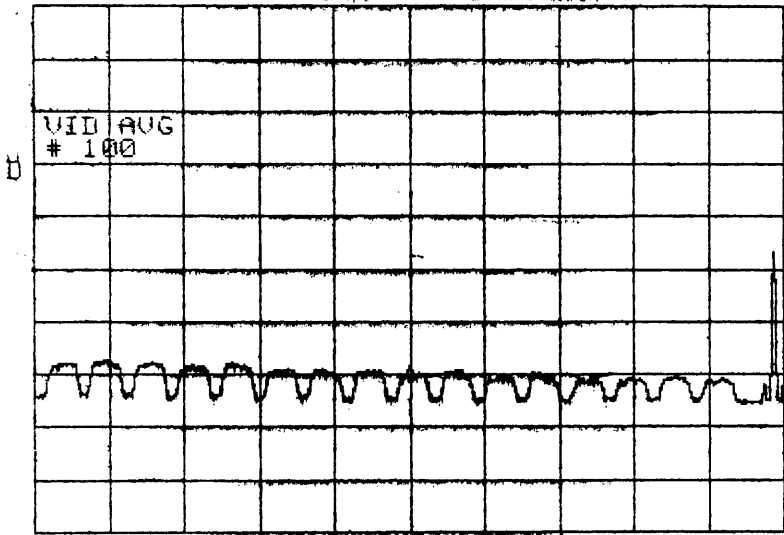
9/5/99 Du

R7-26

DTV

NPTx | OFF
NPRp |

ATTEN 10dB WAUG 100 MKR -70.50dBm
RL 0dBm 10dB/ 1.2200GHz



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

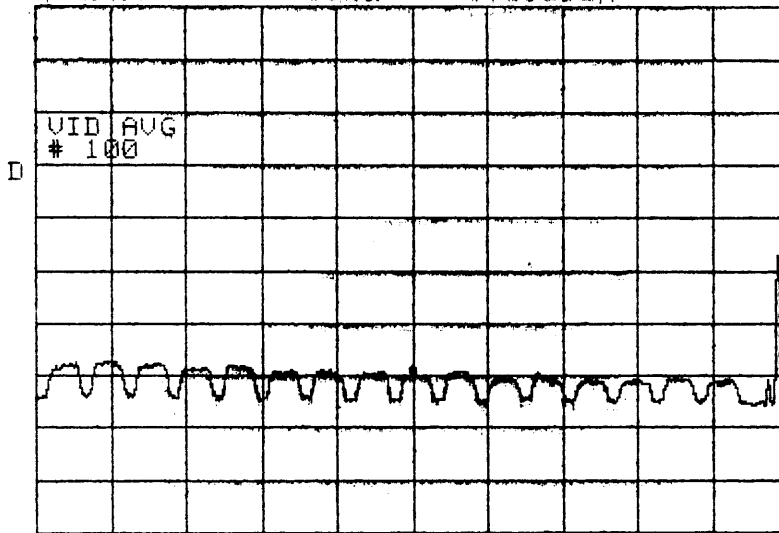
9/5/99 Du

RT-46

DTV

NPTx ON
NPRp

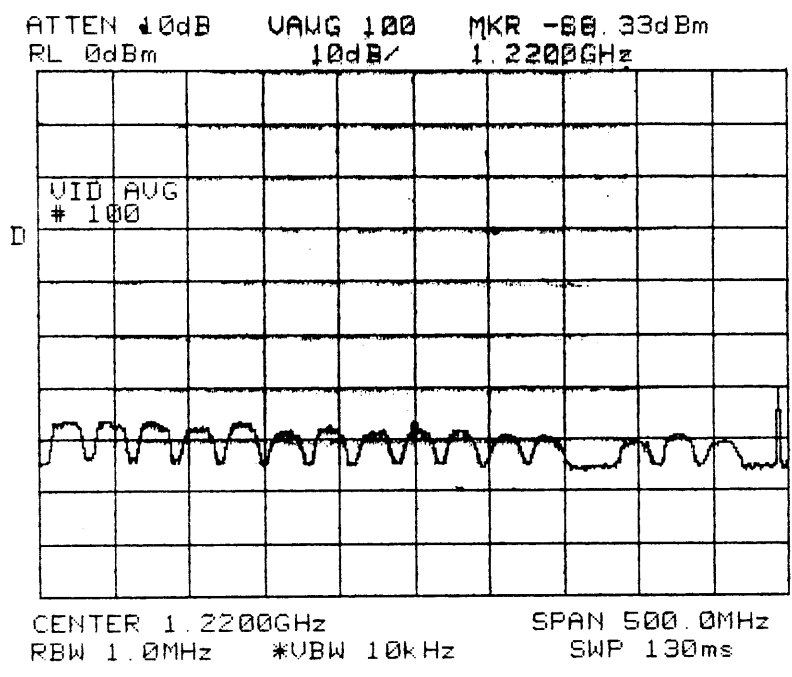
ATTEN 10dB VAUG 100 MKR -70.00dBm
RL 0dBm 10dB/ 1.2200GHz



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

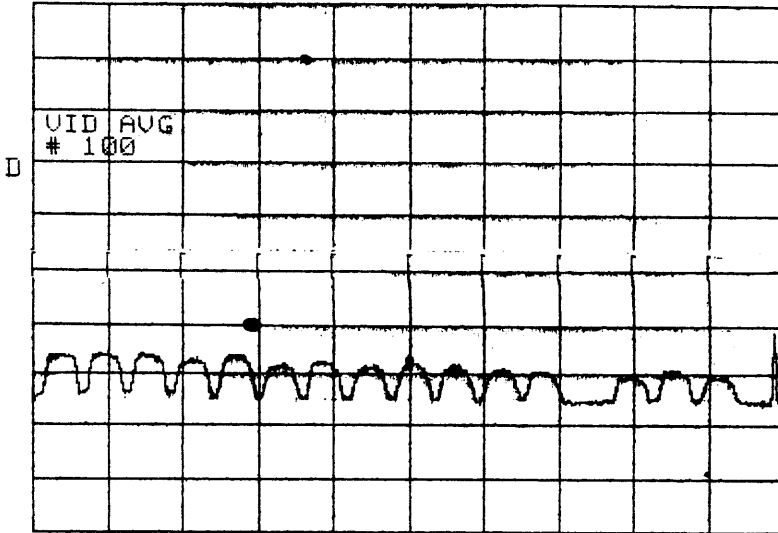
Handwritten notes:
C.F. 5
9/5/99 Du

R7-2C
ESI - Tx/Rp OFF



9/5/99 Du
R7-4c
ES1-Tx/Rp ON

ATTEN 10dB WAWG 72 MKR -68.50dBm
RL 0dBm 10dB/ 1.2200GHz



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

TX
9/5/99

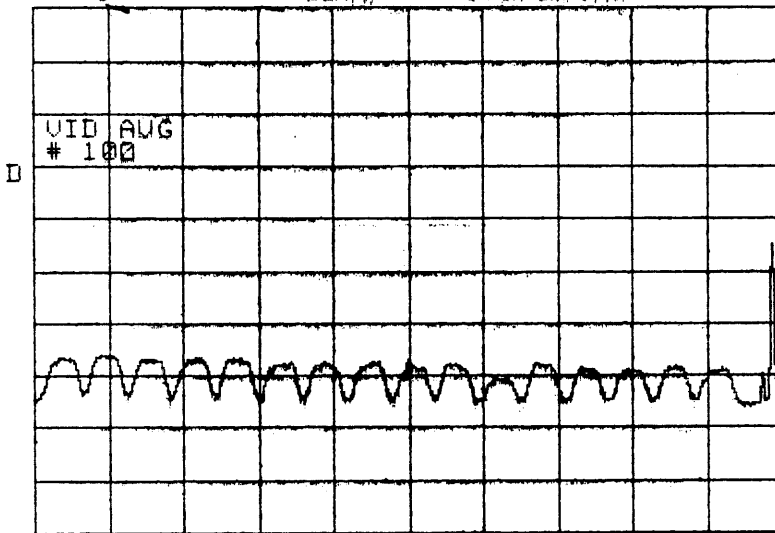
9/5/99 *du*

R7-2d

ES2 - Tx/Rx OFF

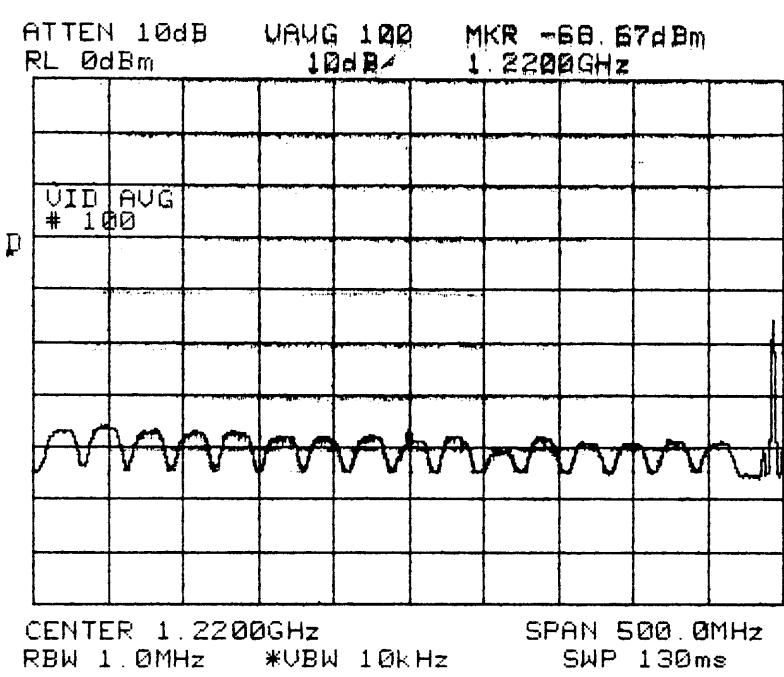
*X 1/19
0 Rx*

ATTEN 10dB VAVG 100 MKR -69.00dBm
RL 0dBm 10dB/ 1.2200GHz



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

9/5/99 Dem
R7-Ad
ES2-Tx/Rp - ON



Northpoint Technology - DBS Compatibility Test - Washington DC Area

Rx Site Location Log

Rx Site No. 127

p1

Set: 1

NPTx - NRPp Repeatable test

Site Name:

Date / Time:

9/5/99 12:10 EDT

123-400 N Capital

Operator:

du

GPS Receiver Reading at Site:

Lat: 43° 53.703

Time Read 1721

GMT

~~EDT~~

Lon: W 077 00.615

Elev: _____

Weather: HV OC, intermittent rain (operating when no rain)
80-85°F; wind gusty on roof.

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

