

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:

NPTx 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 Compatiblilty 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-19	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

Botomac Park

Operator:

DLW

GPS Receiver Reading at Site:

Lat: N 38° 53.169'

Time Read 2216 GMT

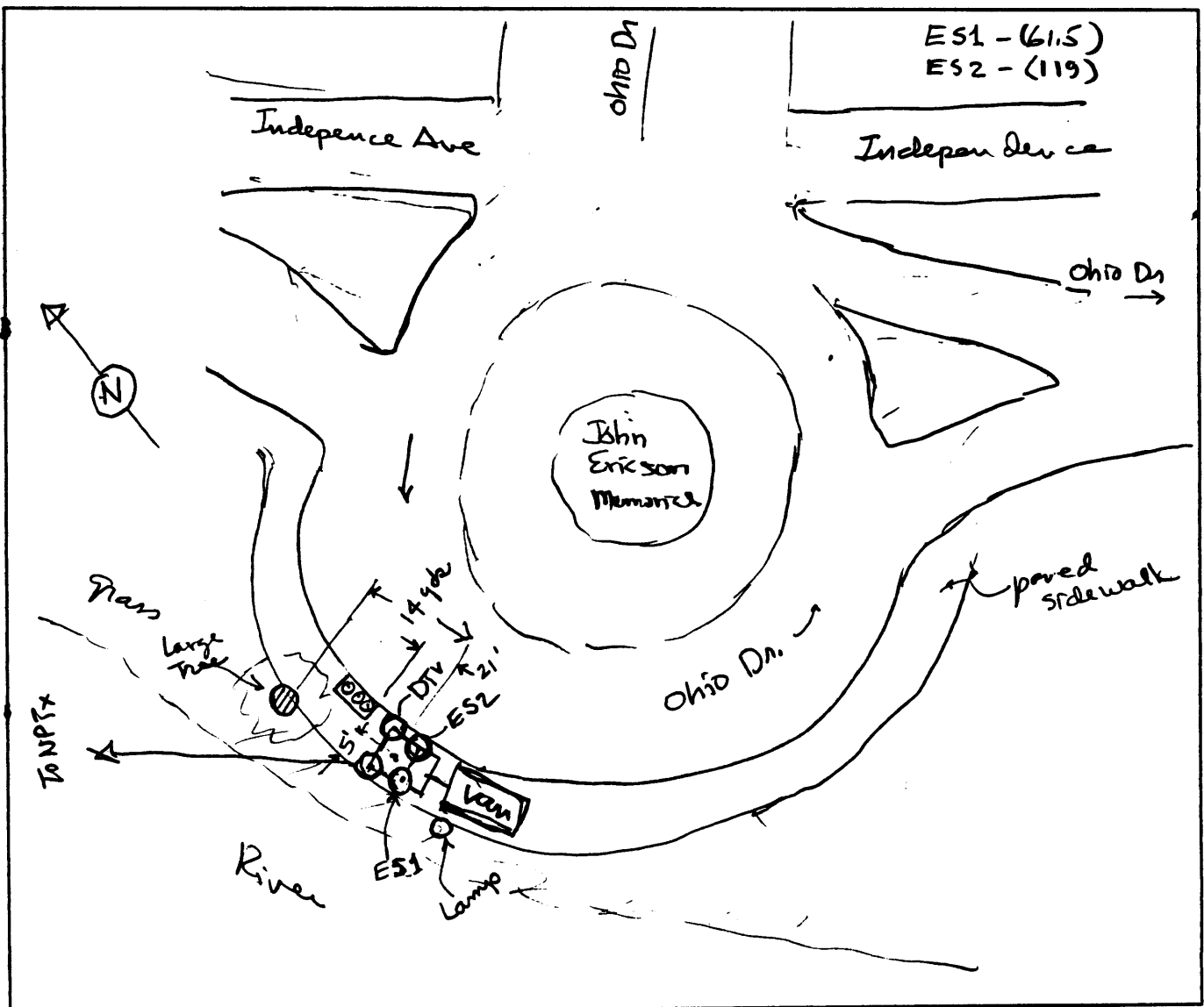
Lon: W 077° 02.992'

Elev:

Weather: KV OC
~80°F, light breeze.

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

NOT to Scale!

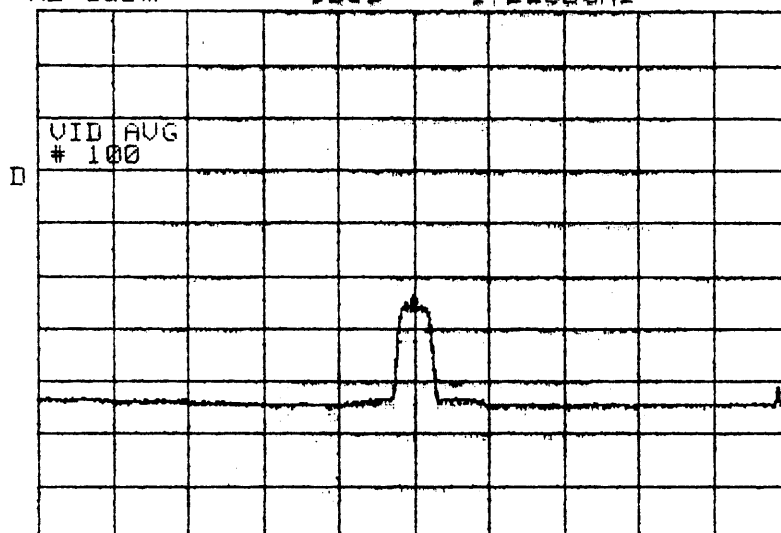


09/27/99

13A-1

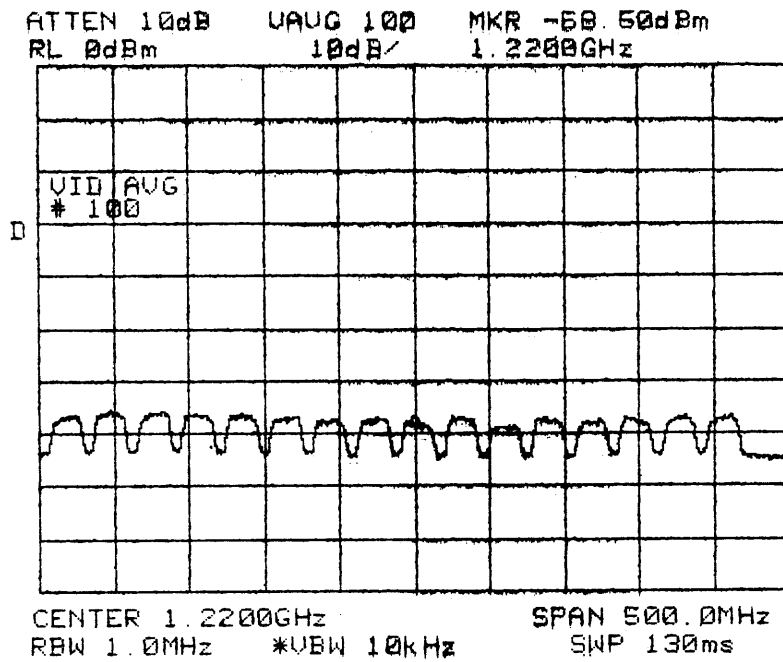
~~Adura~~

ATTEN 10dB UAUG 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

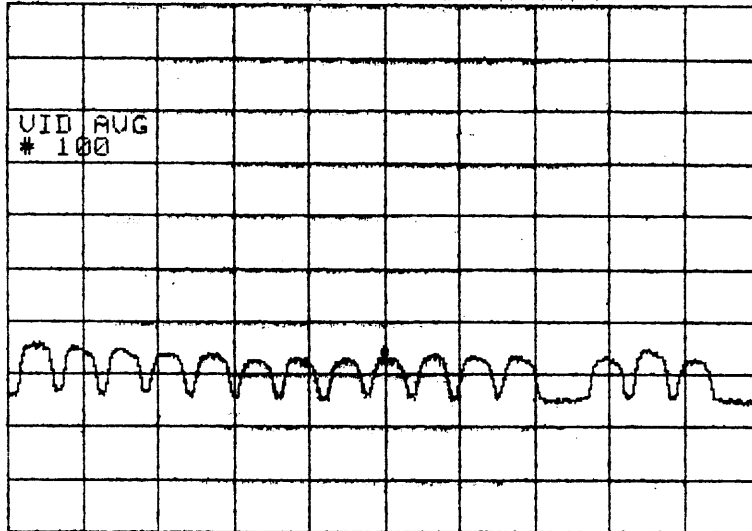


0-1-1/11
13A-2C
Ahuq

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

UID AUG
100

D

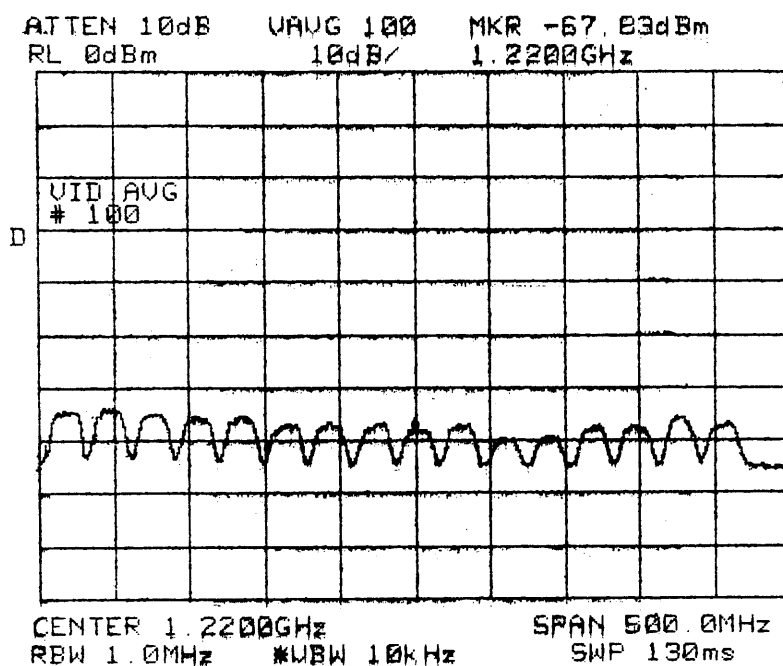


CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

9/27/99

13A-2d

Adura



09/27/99

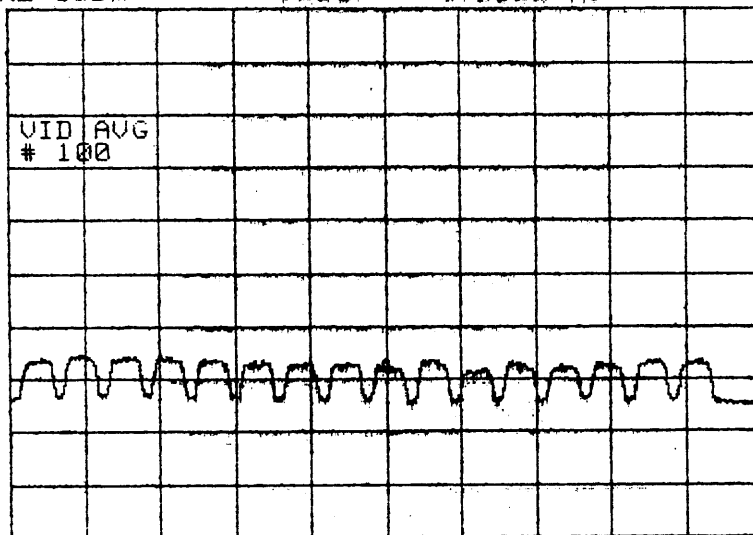
13A-3b

Adura

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

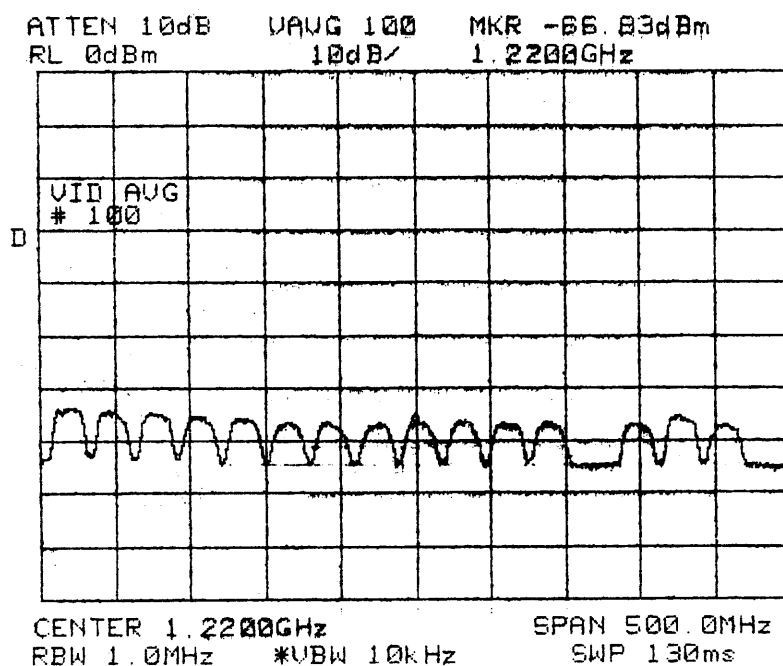
VID AUG
100

D



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

09/27/90
13A-3C
Adm

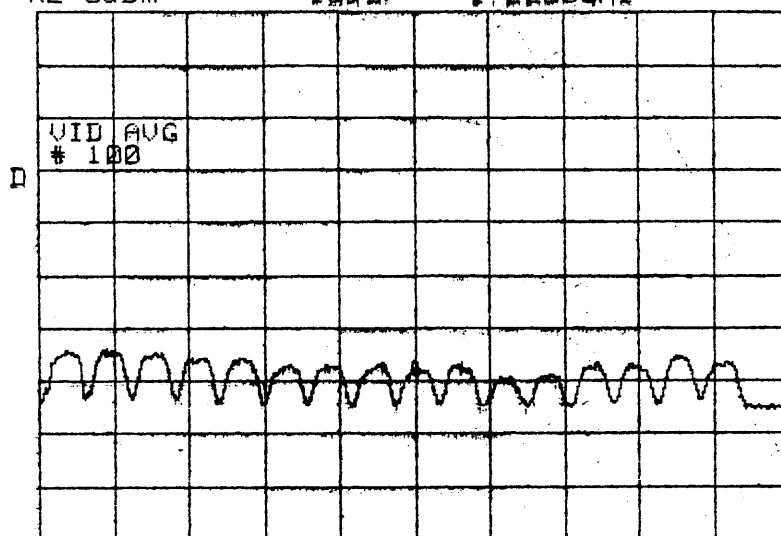


04/27/77

18A-3d

Adura

ATTEN 10dB UAWG 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 Compatibility Test - Washington DC Area

Rx Site Data Log - Repeater Tests

NP Office Roof

400 N. Cap.

Rx Site No.

127

p1

Set:

1

Re: Rx Condx Ref. No.

2

Date / Time:

9/5/99 14:55 EDT

Re: Tx Condx Ref. No.

2

Operator:

Jim

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

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

BER plot name Spec Inv NO

BW DSS 2 Gain 1.0

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. 27 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: NPR1		Plot ID	R7-2b	File Rec	
Power (Px)	-70.50	TV Pix					
Sat 3	ES1 (61.5)	Ant: NPR1		Plot ID	R7-2c	File Rec	
Power (Px)	-68.33	TV Pix					
Sat 4	ES2 (119)	Ant: NPR1		Plot ID	R7-2d	File Rec	
Power (Px)	-69.00	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: NPR1		Plot ID	R7-4b	File Rec	
Power (Px)	-70.00	TV Pix					
Sat 3	E1 (61.5)	Ant: NPR1		Plot ID	R7-4c	File Rec	
Power (Px)	-66.50	TV Pix					
Sat 4	ES2 (119)	Ant: NPR1		Plot ID	R7-4d	File Rec	
Power (Px)	-68.67	TV Pix					

(5) NPTx OFF.

Northpoint Technology – DBS Compatiblilty 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

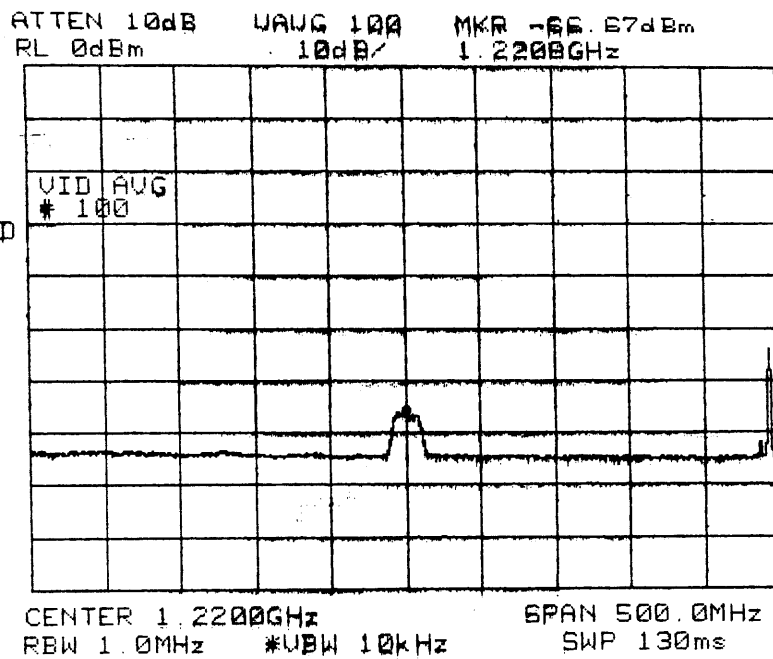
WLSI Box Data - ES1 (61.5)

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

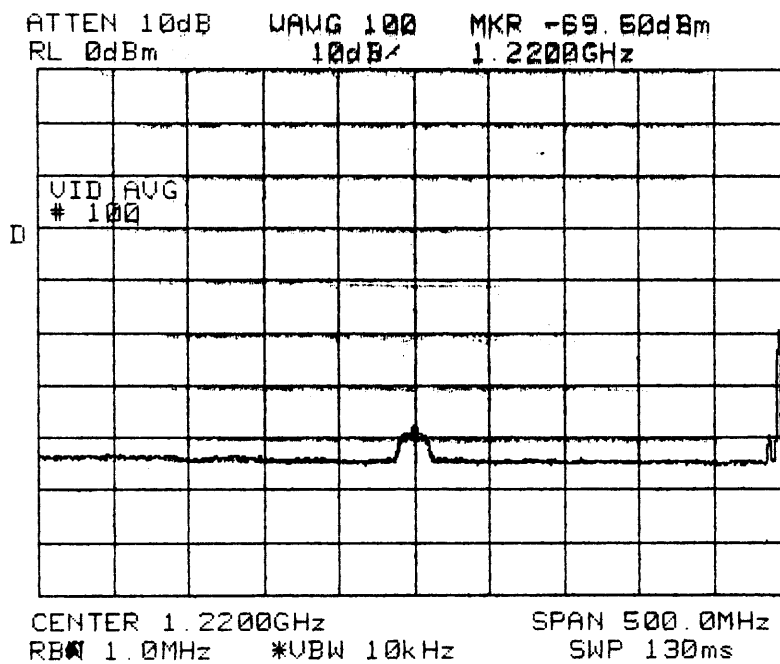
9/5/99 *du*
R7-1C
(NPTx Sx7)



9/5/99 Drw

R7-1d

(Repeater NPR signal)

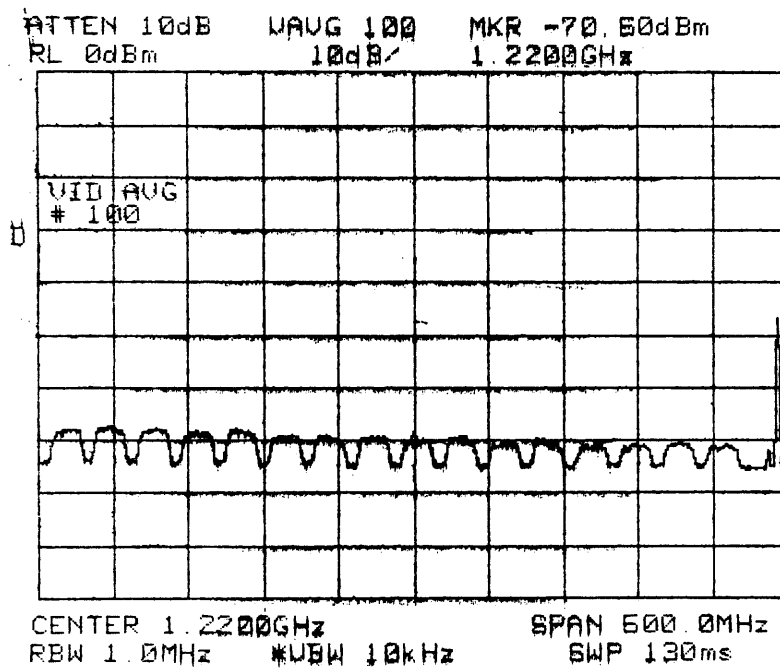


9/5/99 Du

R7-26

DTV

NPTx / OFF
NPRp

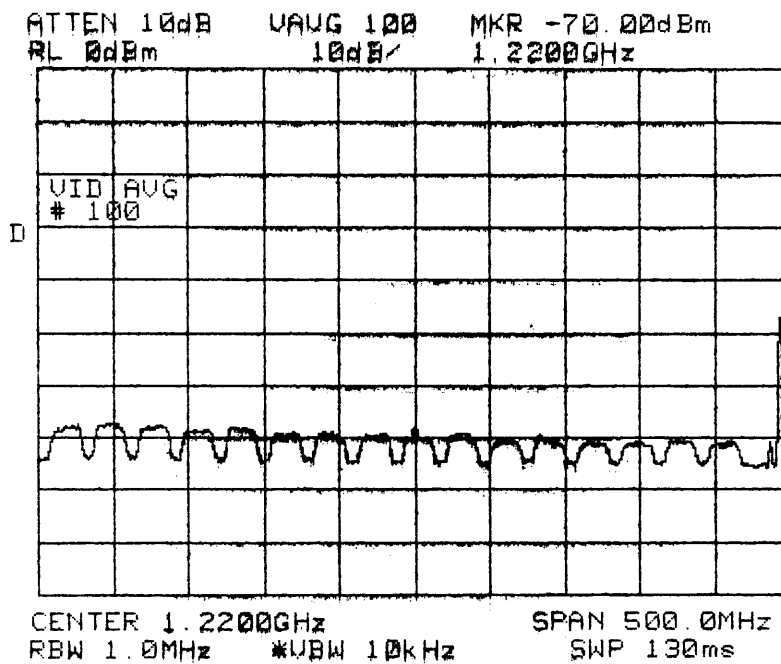


9/5/99 Du

R7-46

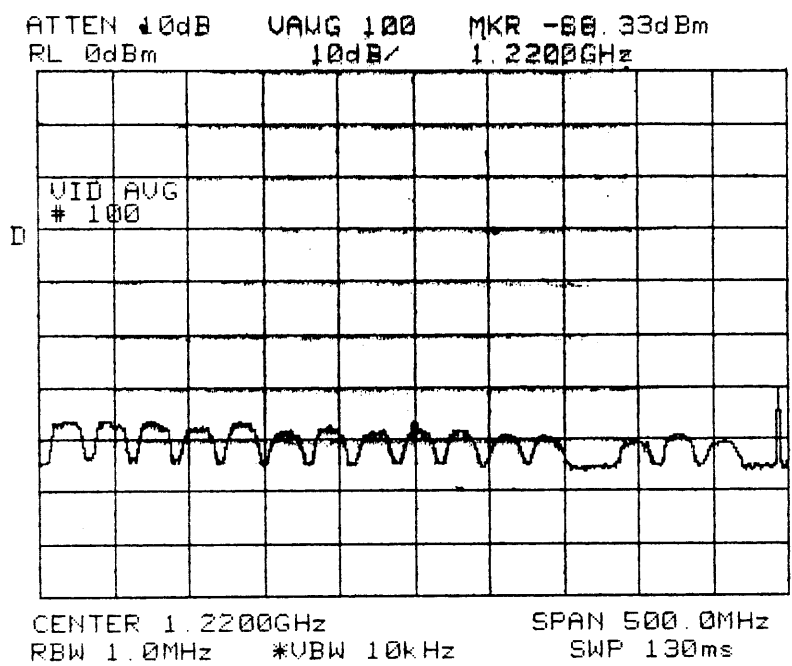
DTV

NPTx / ON
NPRp /



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

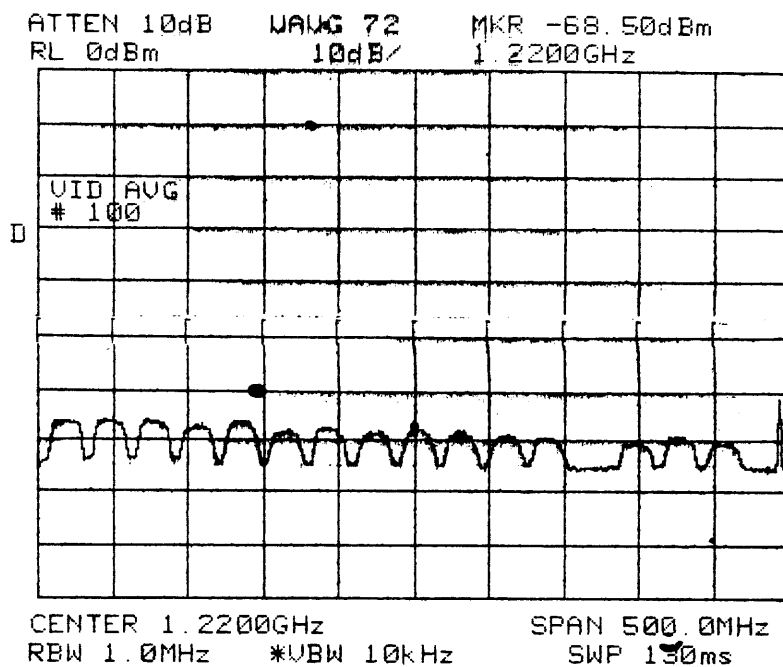
R7-2C
ESI - Tx/Rp OFF



9/5/99 *Qu*

R7-4c

ES1-Tx/Rp ON



*TX
6.2
9.1
5*

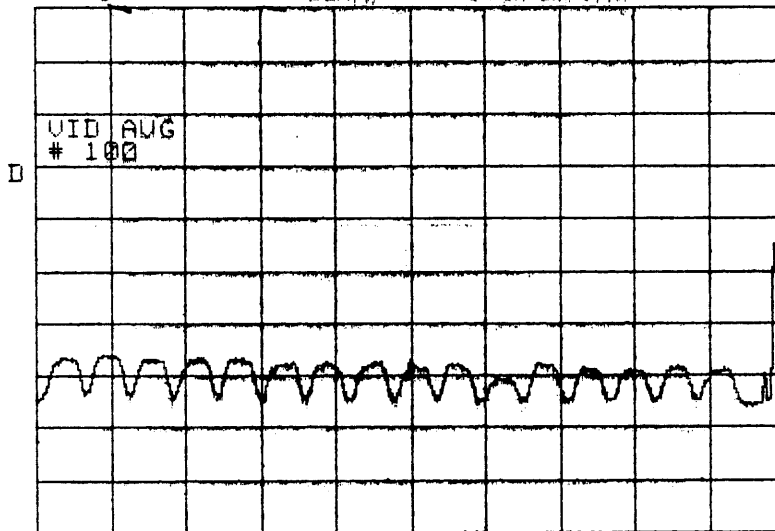
9/5/99 *du*

R7-2d

ES2-Tx/Rp OFF

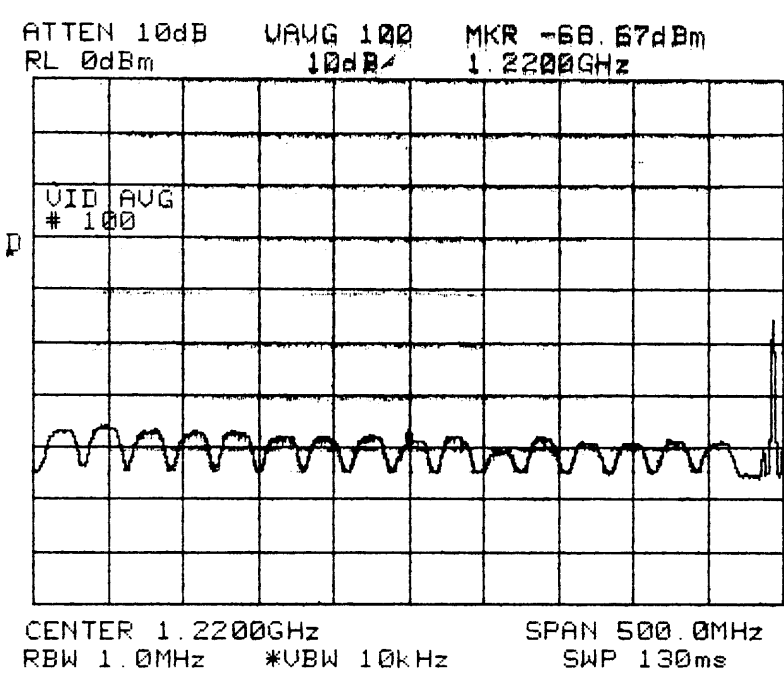
X */* */* *9*
0 *KX*

ATTEN 10dB VAWG 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 *JP*
ES2-Tx/R_p-ON *Gu*



Northpoint Technology - DBS Compatibility Test - Washington DC Area

Rx Site Location Log

Rx Site No.

127

p1

Set:

1

Site Name:

Date / Time:

9/5/99 12:10 EDT

1234 - 400 N Capital

Operator:

Jim

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):

