

COMMENTS FROM SITE 7

Site 7 Arlington Cemetery

Date: August 4, 1999

Weather Conditions: Clear/hazy sky; Temp 90°

Comments: Cable 3 – Pointed to 110, no signal present.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Arlington Nat'l Cemetery

Rx Site No.

7

p1

Set:

4/

Re: Rx Condx Ref. No.

1

Date / Time:

8 / 4 / 99 13 : 32 EDT

Re: Tx Condx Ref. No.

1

Operator:

D. [Signature]

Data Measurements:

NPTx Carrier Freq. (GHz) 12.47

Disk Filename X

(1) NP Signal – NPTx ON:

		Ant: D3s 1			
Power (Px)	<u>-49.67</u>	TV Pix		Plot ID	<u>7-1</u>
				File Rec	<u>X</u>

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

Sat 1	<u>110</u>	Ant: NP2	<i>cable 3 pointed to 110 - no sig.</i>		
Power (Px)		TV Pix	<u>-</u>	Plot ID	
				File Rec	

Sat 2	<u>101 DTV</u>	Ant: NP3			
Power (Px)	<u>-66.67</u>	TV Pix	<u>-</u>	Plot ID	<u>7-2b</u>
				File Rec	<u>X</u>

Sat 3	<u>61.5 ES</u>	Ant: NP2			
Power (Px)	<u>-64.50</u>	TV Pix	<u>-</u>	Plot ID	<u>7-2c</u>
				File Rec	<u>X</u>

Sat 4	<u>119 ES</u>	Ant: NP4			
Power (Px)	<u>-65.50</u>	TV Pix	<u>-</u>	Plot ID	<u>7-2d</u>
				File Rec	<u>X</u>

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

Sat 1		Ant:			
Power (Px)		TV Pix	<u>-</u>	Plot ID	
				File Rec	

Sat 2		Ant: "			
Power (Px)	<u>-66.83</u>	TV Pix	<u>-</u>	Plot ID	<u>7-3b</u>
				File Rec	<u>X</u>

Sat 3		Ant: "			
Power (Px)	<u>-65.00</u>	TV Pix	<u>-</u>	Plot ID	<u>7-3c</u>
				File Rec	<u>X</u>

Sat 4		Ant: "			
Power (Px)	<u>-65.83</u>	TV Pix	<u>-</u>	Plot ID	<u>7-3d</u>
				File Rec	<u>X</u>

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Rx Site No. 7 p2
 Set: 41

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-18	79	77	80	79	77	77	78	79	79	78	Avg:	78.3
Sat 3	T-18	90	91	90	90	90	90	90	91	90	90	Avg:	90.2
Sat 4	T-18	87	87	87	87	87	88	87	87	87	87	Avg:	87.1

(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-18	73	70	72	73	76	74	70	72	73	73	Avg:	72.7
Sat 3	T-18	90	91	92	90	91	90	90	90	90	89	Avg:	90.3
Sat 4	T-18	89	89	89	89	88	88	88	88	88	89	Avg:	88.5

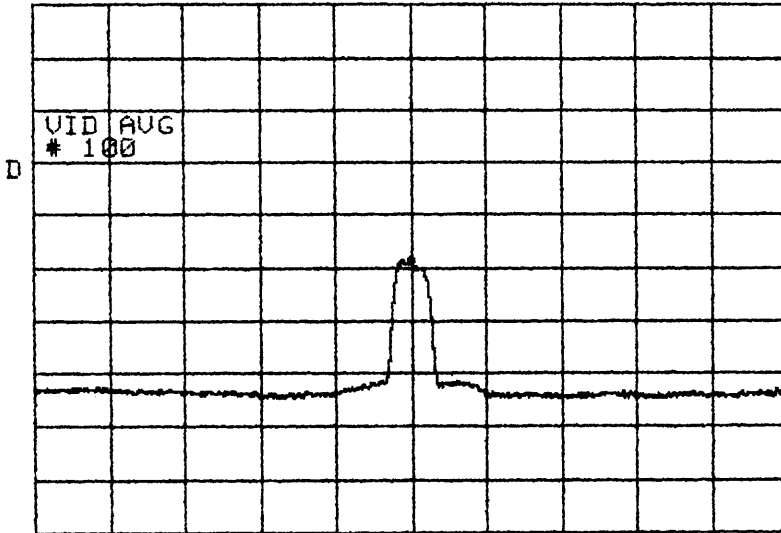
Legend // Comments:

NPTx – Northpoint Transmitter.

8/4/99 Jim / Adura

7-1

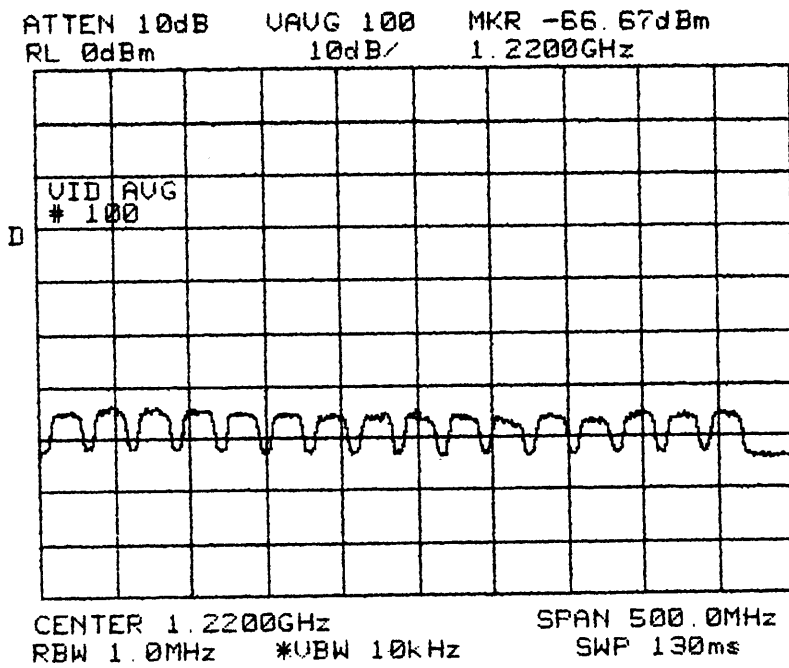
ATTEN 10dB VAUG 59 MKR -49.67dBm
RL 0dBm 10dB/ 1.2200GHz



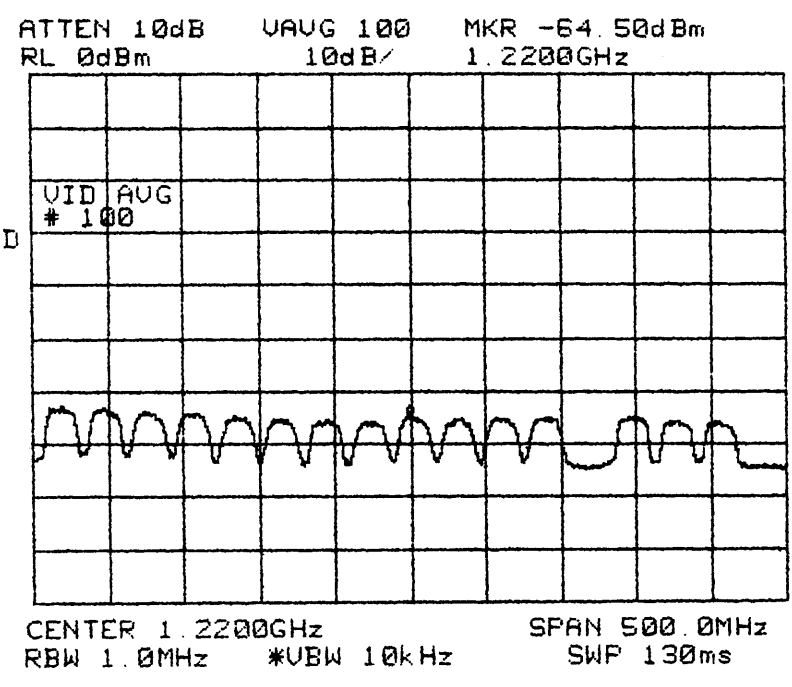
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

8/4/95 *Don/Alvin*

7-26

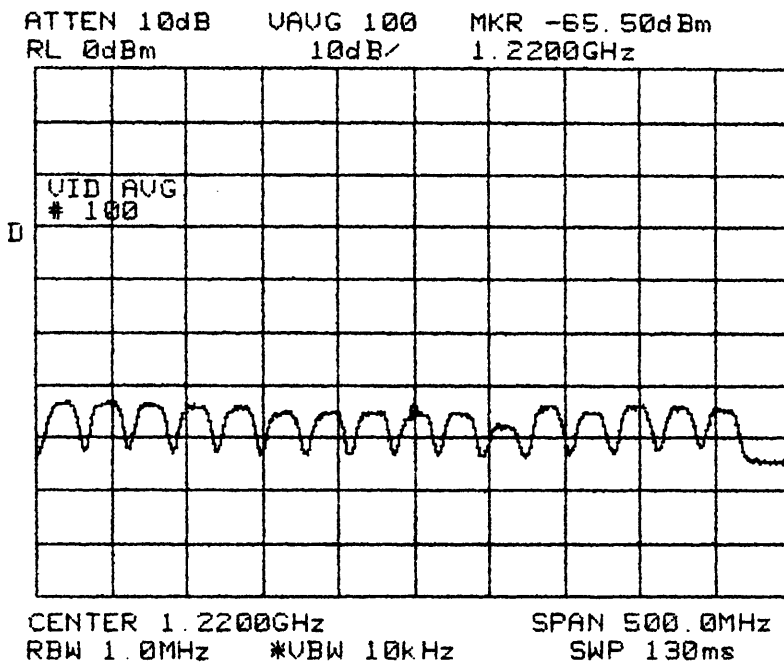


8/4/99 Dan / Ad -
7-2c



8/4/99 *Don J. K. Devra*

7-2d



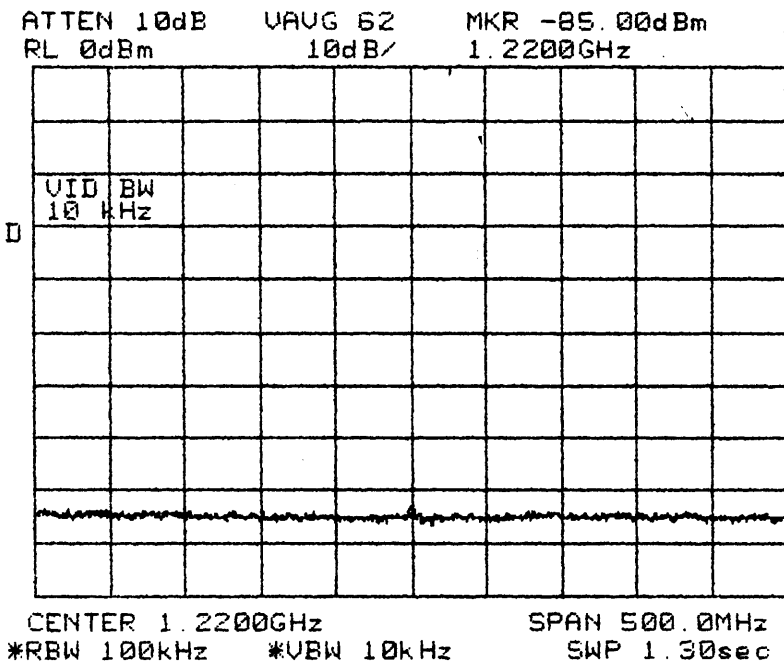
7-2a.1

Sat 110

Site 7 8/4/99 *Qu*

Sat 110 - cable 3, NP3 pointed to sat. space
(No Sat. present)

NP Tx ON



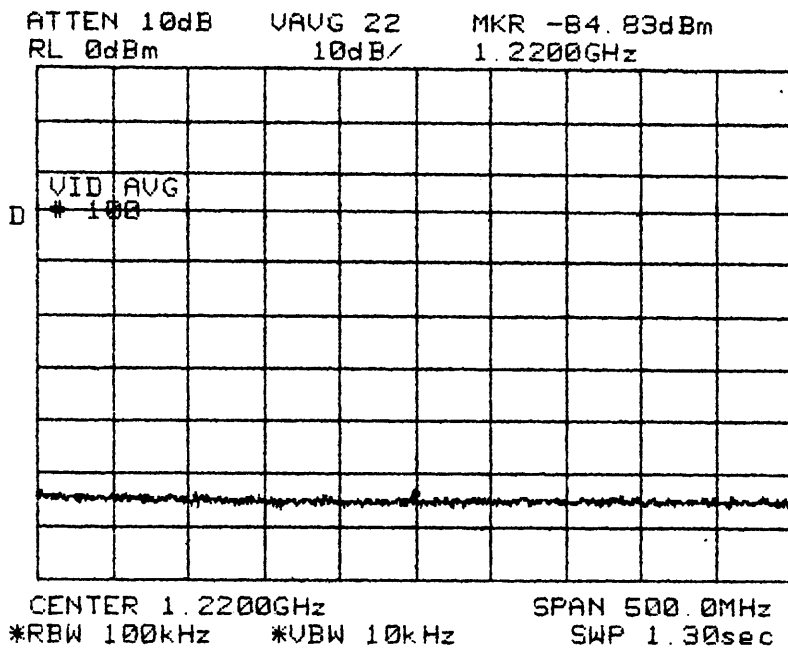
ON

OFF

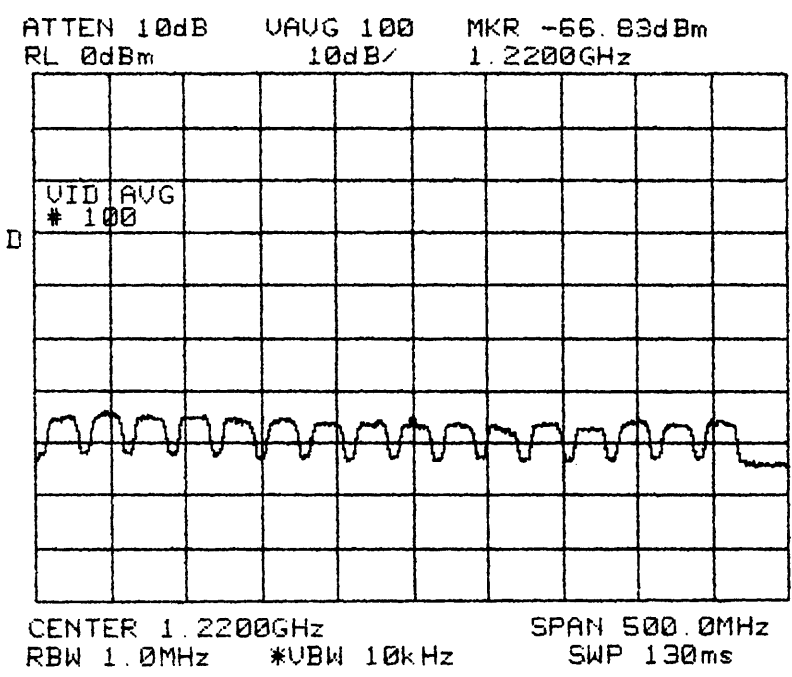
8/4/87

7-2a.2

KPT_x - OFF

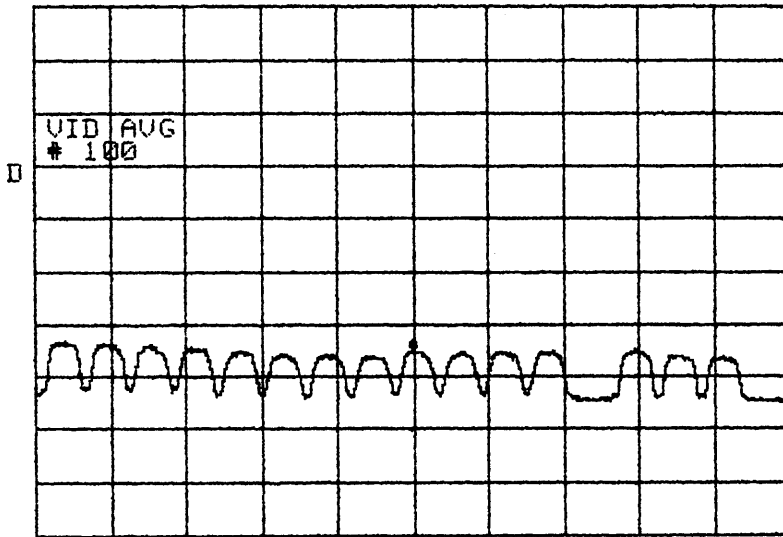


8/4/99 Dr / Adura
7-36



8/4/99 (2) / Adura
7-3c

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

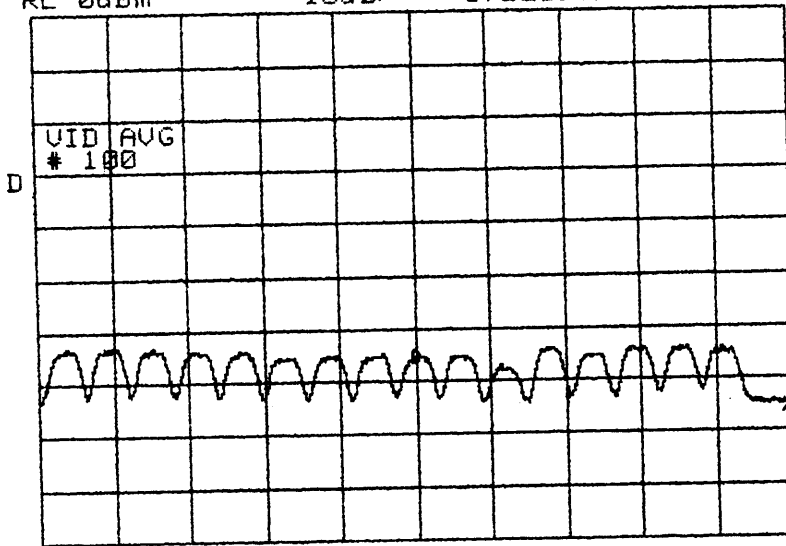


CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

8/4/99 *Am - / Aduran*

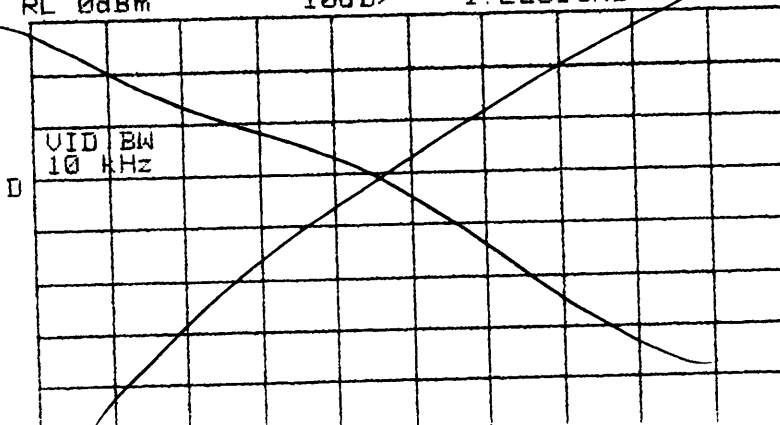
7-3d

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



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

ATTEN 10dB VAUG 20 MKR -95.00dBm
RL 0dBm 10dB/ 1.2200GHz



Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Location Log

Rx Site No. 7 p1
Set: 41

Site Name:

Date / Time:

08/03/99 12:30pm EDT

Arlington National Cemetery

Operator:

Akin Falodun

GPS Receiver Reading at Site:

Lat: N 38° 52.875'

done after the fact

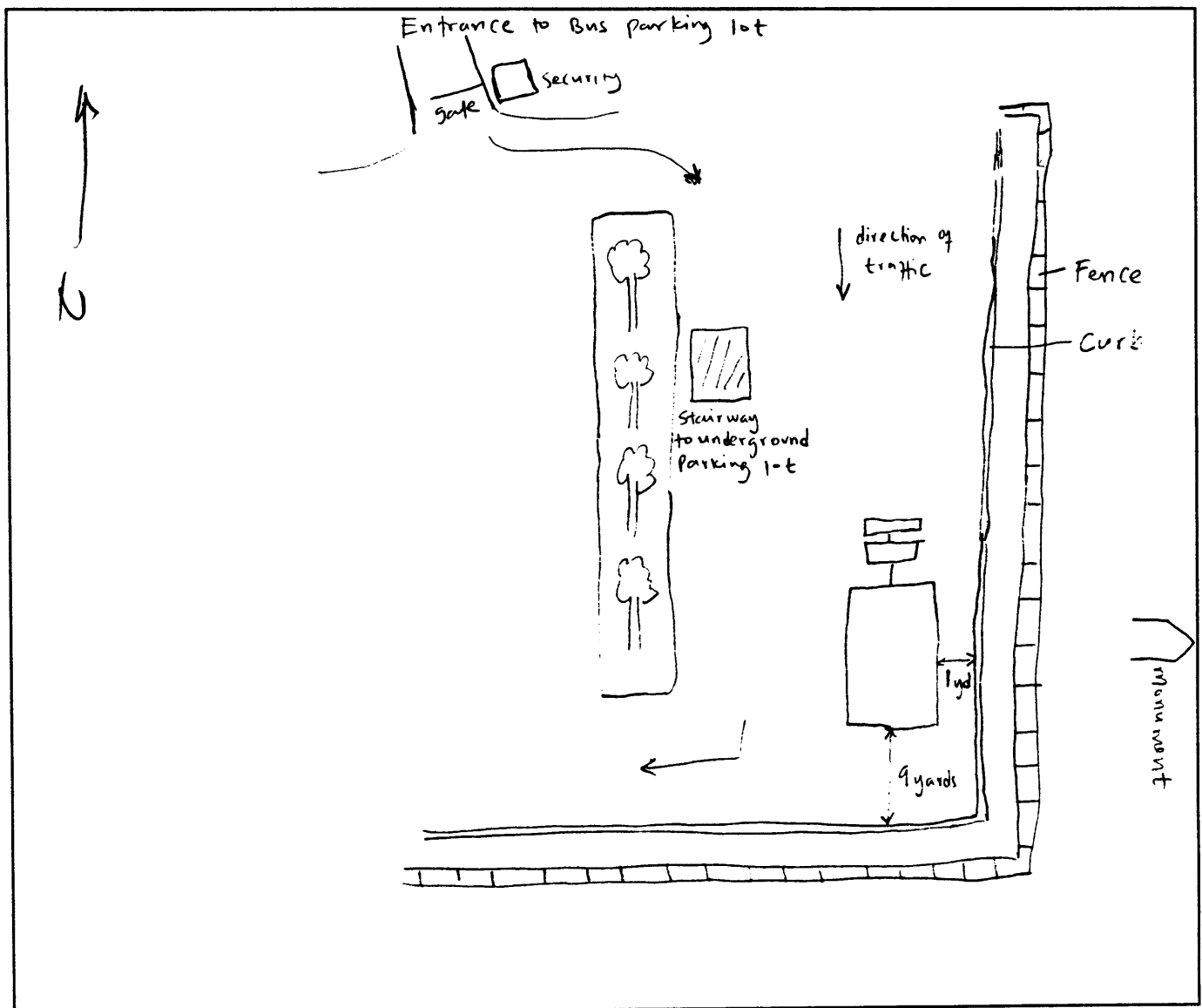
Time Read 8/16/99 @ 1514 CST

Lon: W 077° 03.773

wx: clear / hazy sky
Temp ~ 90+°F

Elev: _____

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



Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site Location Log

Rx Site No. 7 p1
Set: 1 / 1

Site Name:

Date / Time:

08/02/99 17:22 EDT

Arlington National Cemetery

Operator:

Akin Falodun

GPS Receiver Reading at Site:

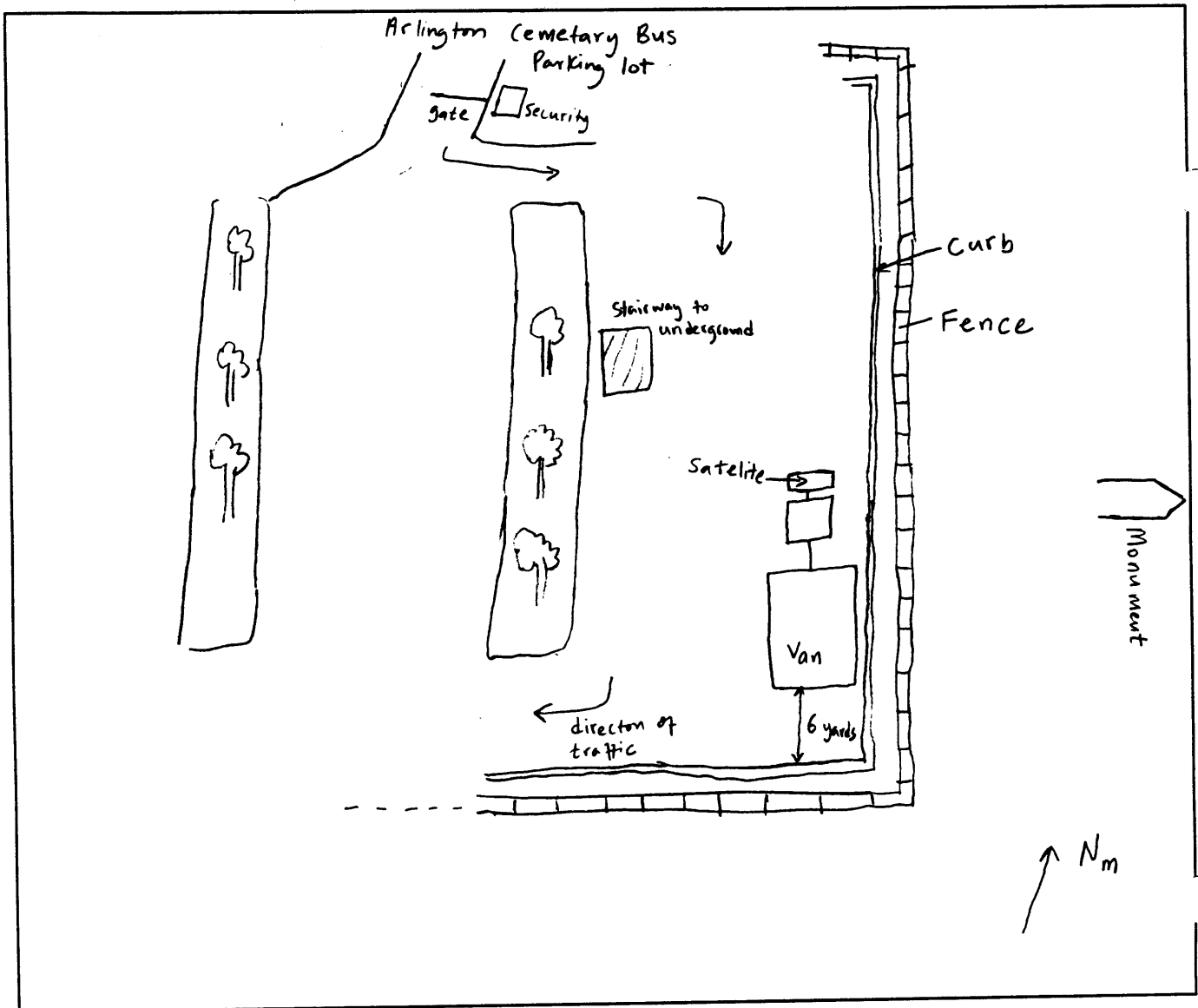
Lat: _____

Time Read _____ CST

Lon: _____

Elev: _____

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



COMMENTS FROM SITE 7

Site 7 Arlington Cemetery

Date: August 12, 1999

Weather Conditions: Clear/Hazy Sky

Comments: Did 360° span – no reflections found – also special focus on visible buildings and Washington Monument.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log *Arlington Cemetery*

Rx Site No. 7R p1
Set: _ / _

Re: Rx Condx Ref. No. 1

Date / Time: 08/12/99 12:04 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:

Refer to only site Lx. log.

		Ant:			
Power (Px)	<i>-51.00dB</i>	TV Pix	<i>OK</i>	Plot ID	<i>7-1</i>
				File Rec	<i>X</i>

(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	<i>DTV</i>	Ant:			
Power (Px)	<i>-65.17dB</i>	TV Pix	<i>X</i>	Plot ID	<i>7-2b</i>
				File Rec	<i>X</i>

Sat 3	<i>ES (61.5)</i>	Ant:			
Power (Px)	<i>-65.33dB</i>	TV Pix	<i>X</i>	Plot ID	<i>7-2c</i>
				File Rec	<i>X</i>

Sat 4	<i>ES (119)</i>	Ant:			
Power (Px)	<i>-68.33dB</i>	TV Pix	<i>X</i>	Plot ID	<i>7-2d</i>
				File Rec	<i>X</i>

(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	<i>DTV</i>	Ant:			
Power (Px)	<i>-65.00dB</i>	TV Pix	<i>X</i>	Plot ID	<i>7-3b</i>
				File Rec	<i>X</i>

Sat 3	<i>ES (61.5)</i>	Ant:			
Power (Px)	<i>-64.67dB</i>	TV Pix	<i>X</i>	Plot ID	<i>7-3C</i>
				File Rec	<i>X</i>

Sat 4	<i>ES (119)</i>	Ant:			
Power (Px)	<i>-68.33dB</i>	TV Pix	<i>X</i>	Plot ID	<i>7-3d</i>
				File Rec	<i>X</i>

(4) NPTx OFF.

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Data Log

Rx Site No. 7R p2
 Set: 1

Signal Strength Pointer (ssp) Data --

(2a) NPTx OFF:

Sat 1	T-											Avg:	
Sat 2	T-18	80	81	82	81	79	81	80	83	78	77	Avg:	80.2
Sat 3	T-18	95	95	96	95	96	96	96	95	95	96	Avg:	96.5
Sat 4	T-18	79	78	78	78	79	78	78	78	77	78	Avg:	78.1

(3a) NPTx ON:

Sat 1	T-											Avg:	
Sat 2	T-18	77	76	80	79	80	76	80	78	73	81	Avg:	78.0
Sat 3	T-18	94	95	95	95	94	95	95	95	95	95	Avg:	94.8
Sat 4	T-18	78	78	80	78	78	78	78	78	78	78	Avg:	78.2

Legend // Comments:

NPTx – Northpoint Transmitter.

Northpoint Technology – DBS Compatibility Test – Washington DC Area

Rx Site 3D Pattern Log

Arlington Cour

Rx Site No.

7R

Set:

1

Re: Rx Condx Ref. No.

1

Date / Time:

8 / 12 / 99 13:30 EDT

Re: Tx Condx Ref. No.

1

Operator:

Jim

(Zero Δz is NPTX)

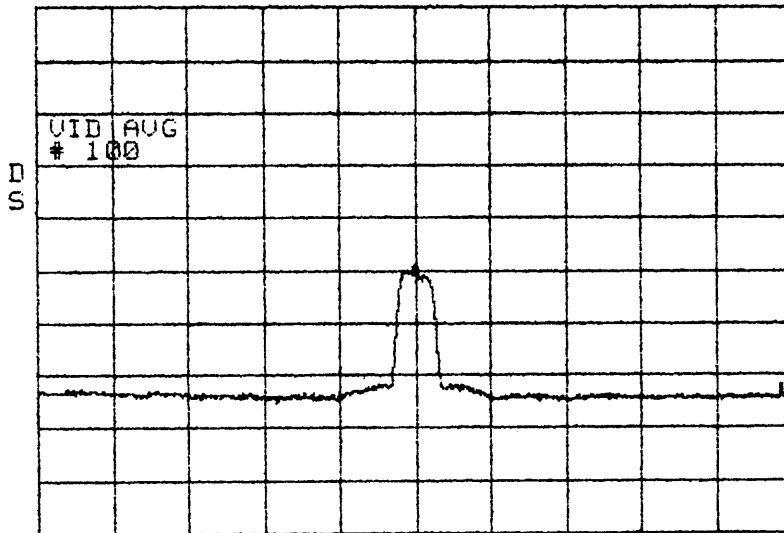
Rx Test Set received signal pattern vs Azimuth and Elevation angles (Degrees).

	Elev. →	0	15	30	45	60	75	90		
Azim.										
0										
15			<i>Did 360° Scan - No Reflections found - -also special focus on visible buildings & Wash mon.</i>							
30										
45										
60									<i>(Jim)</i>	
75										
90										
105										
120										
135										
150										
165										
180										
195										
210										
225										
240										
255										
270										
285										
300										
315										
330										
345										
360										

Note: In most cases, a slow sweep will be done with the Precision Horn antenna while monitoring the signal with the Spectrum Analyzer, and anomalous signals of interest will be detailed in the related zone.

8/2/99 Adura
7R-1

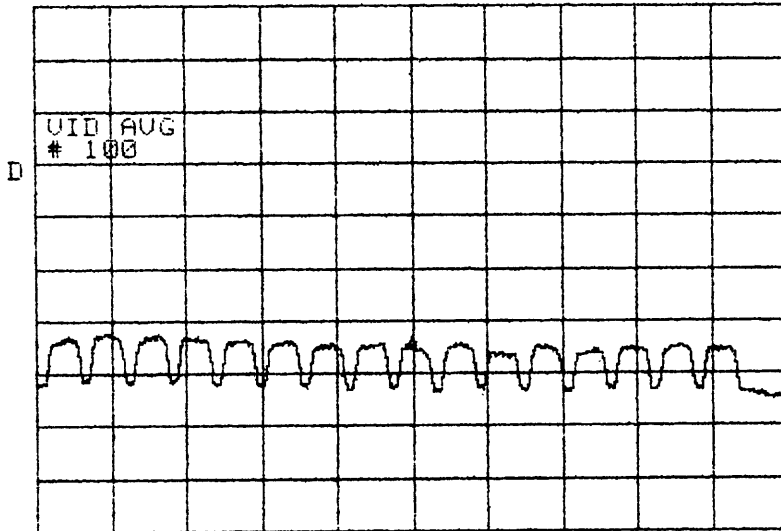
ATTEN 10dB VAUG 100 MKR -51.00dBm
RL 0dBm 10dB/ 1.2200GHz



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

8/12/99 Adv
R2b

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



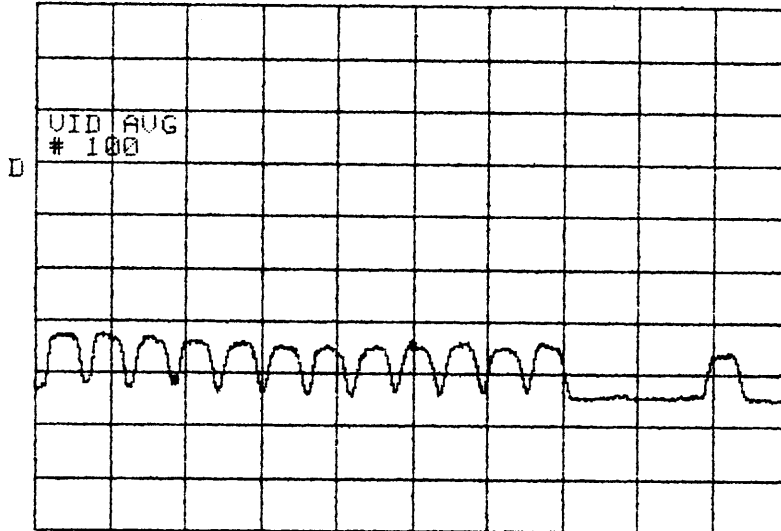
CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

Adura

7B2C

8/12/99

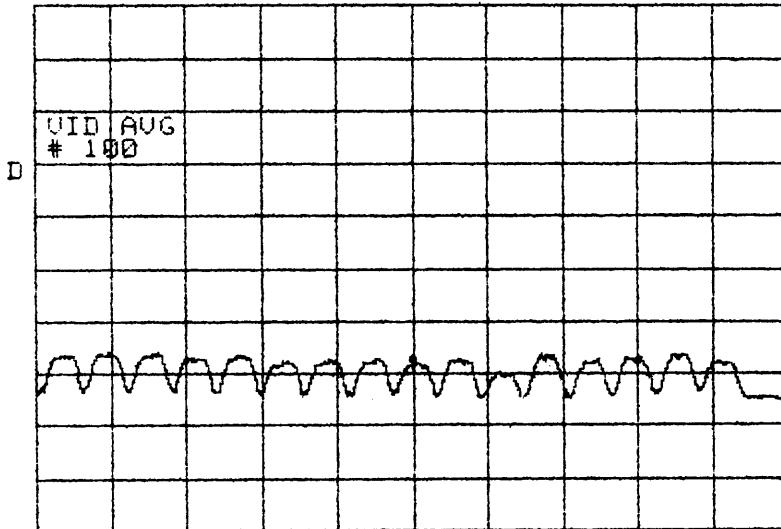
ATTEN 10dB UAUG 100 MKR -65.33dBm
RL 0dBm 10dB/ 1.2200GHz



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

8/21/99
Adura
7^B2d

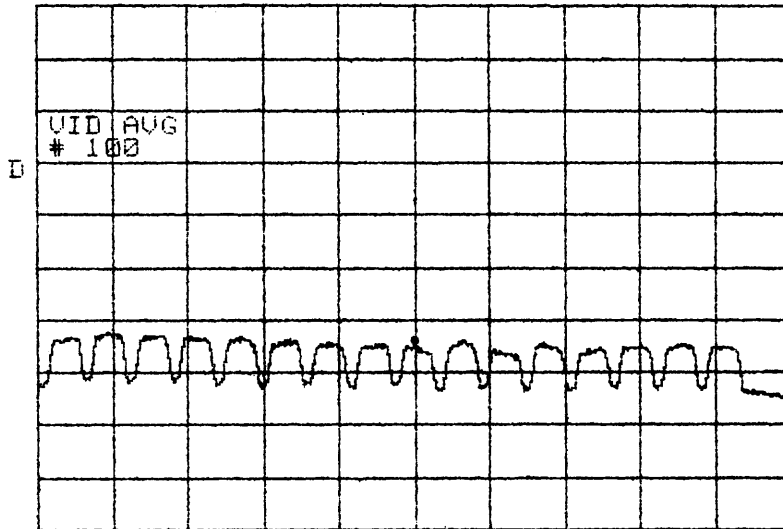
ATTEN 10dB VAUG 100 MKR -68.33dBm
RL 0dBm 10dB/ 1.2200GHz



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

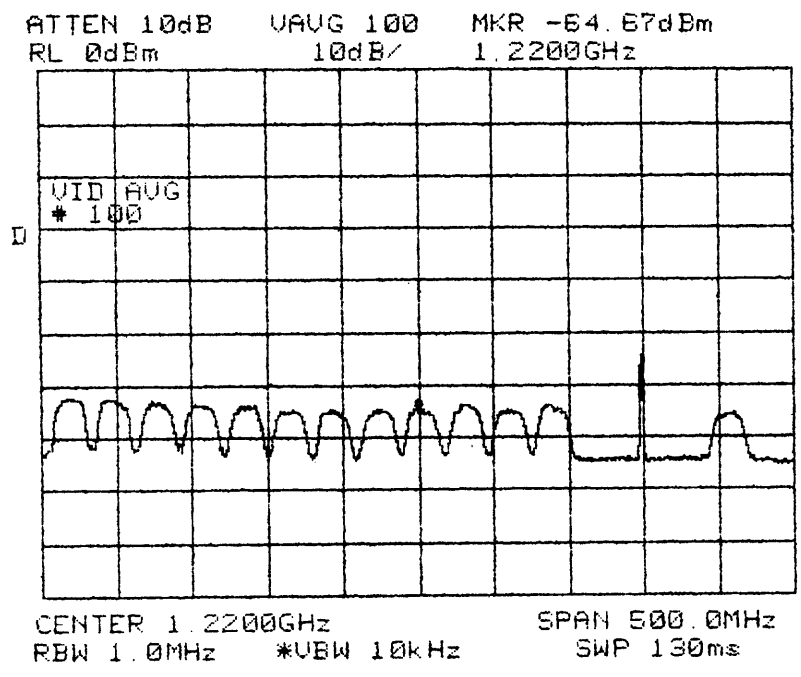
8/12/99 Adura
7-36

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

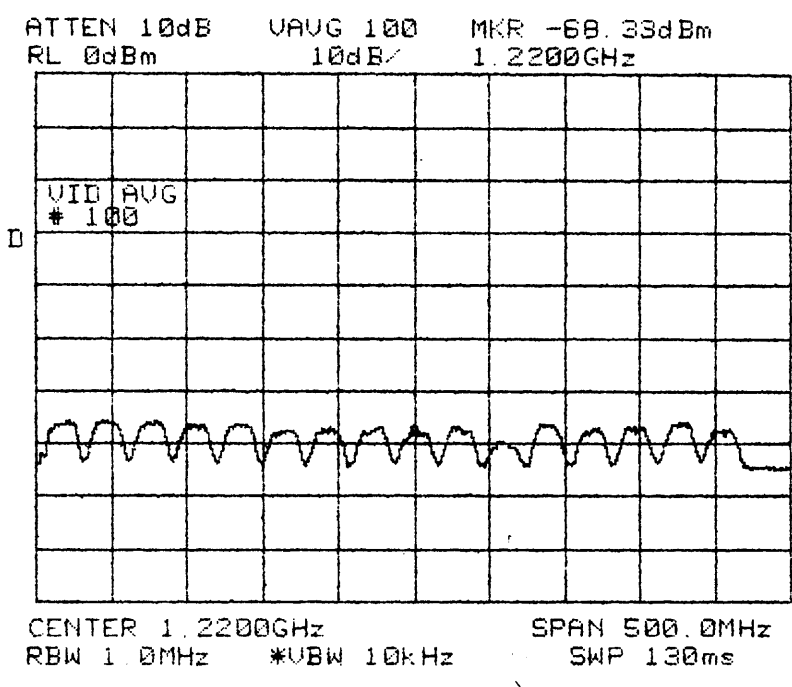


CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *UBW 10kHz SWP 130ms

8/12/99
7B3C Adm.



8/12/99
7R3d Adlum



DRW/hrs

NP-DBS Tests - WDC Area

8/12/99 Au

Site 7E

NPtx - OFF

DTN - Cable 2 / NP3 - Wx Clear / Haze / ~90°F

Pat: 11.17

81	82	79	79	11.25	79
82	84	78	82		81
79	80	81	82		81
82	80	80	78		82
81	83	78	81		87
81	82	78	82		80
83	83	82	80		81
76	83	78	82		79
82	80	82	79		80
84	80	81	81		79
81	80	82	79		81
81	79	84	74		81
80	78	85	81		79
83	77	78	85		82
78	87	83	78		82
81	82	82	79		81
78	80	84	80		80
81	83	85	79		84
79	83	78	79		81
85	80	79	82		83
79	80	84	81		79
84	81	83	79		79
77	80	80	83		79
81	80	80	81		79
76	81	84	81		84
82	79	83	81		78
80	81	81	79		81
80	82	79	83		84
81	80	80	82		76
84	82	81	80		80
80	81	82	82		82
79	76	78	81		81
80	78	80	81		81
80	78	80	80		79
82	83	84	82		85
81	82	80	81		81
79	85	77	81		80
81	78	83	80		82
77	82	82	80		80
81	82	83	79		81

11.29

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



COMMENTS FROM SITE 7

Site 7 Arlington Cemetery

Date: August 18, 1999

Weather Conditions: Cloudy/hazy

Comments:

Northpoint Technology - DBS Compatiblilty Test - Washington DC Area *Repeat*

Rx Site Data Log *Arlington Cour*

Rx Site No. 7 p1
Set: 2/1

Re: Rx Condx Ref. No. 1 Date / Time: 8/18/99 16:05 EDT
Re: Tx Condx Ref. No. 1 Operator: Adura

Data Measurements: *primarily to get Lucent NTC box data*

NPTx Carrier Freq. (GHz) 12.47 Disk Filename X

(1) NP Signal - NPTx ON:

	NPTx	Ant: DBS 1			
Power (Px)	-50.83dB	TV Pix	OK	Plot ID	7-1
				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	

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

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

Sat 4	ES (119)	Ant:			
Power (Px)	-67.90dB	TV Pix		Plot ID	7-2d
				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	

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

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

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

(4) NPTx OFF.

Northpoint Technology – DBS Compatibililty Test – Washington DC Area

Rx Site Data Log

Rx Site No. 7 p2
 Set: 4' / _____

Signal Strength Pointer (ssp) Data –

(2a) NPTx OFF:

Sat 1	T-	<table border="1" style="width: 100%; height: 20px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>															Avg:	
Sat 2	T-	<table border="1" style="width: 100%; height: 20px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>															Avg:	
Sat 3	T-	<table border="1" style="width: 100%; height: 20px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>															Avg:	
Sat 4	T-18	<table border="1" style="width: 100%; height: 20px;"> <tr> <td>87</td><td>87</td><td>87</td><td>87</td><td>87</td><td>87</td><td>87</td><td>87</td><td>87</td><td>87</td><td>87</td><td></td><td></td><td></td> </tr> </table>	87	87	87	87	87	87	87	87	87	87	87				Avg:	87.0
87	87	87	87	87	87	87	87	87	87	87								

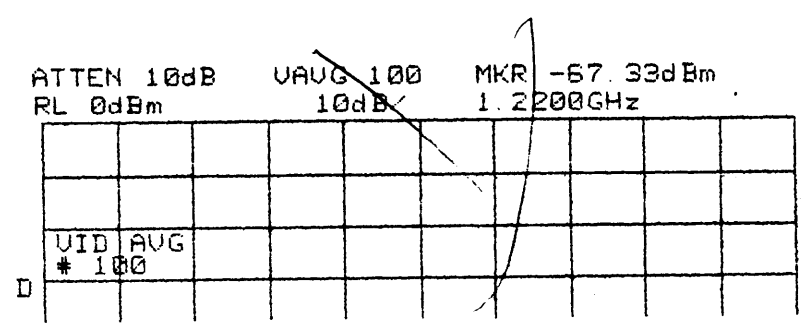
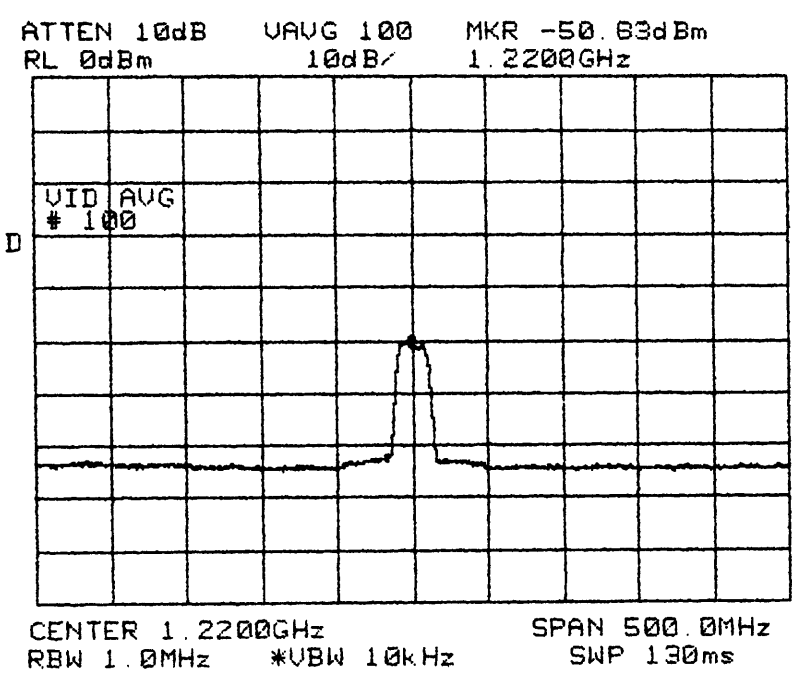
(3a) NPTx ON:

Sat 1	T-	<table border="1" style="width: 100%; height: 20px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>															Avg:	
Sat 2	T-	<table border="1" style="width: 100%; height: 20px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>															Avg:	
Sat 3	T-	<table border="1" style="width: 100%; height: 20px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>															Avg:	
Sat 4	T-18	<table border="1" style="width: 100%; height: 20px;"> <tr> <td>87</td><td>86</td><td>86</td><td>86</td><td>87</td><td>86</td><td>87</td><td>86</td><td>86</td><td>86</td><td>86</td><td></td><td></td><td></td> </tr> </table>	87	86	86	86	87	86	87	86	86	86	86				Avg:	86.3
87	86	86	86	87	86	87	86	86	86	86								

Legend // Comments:

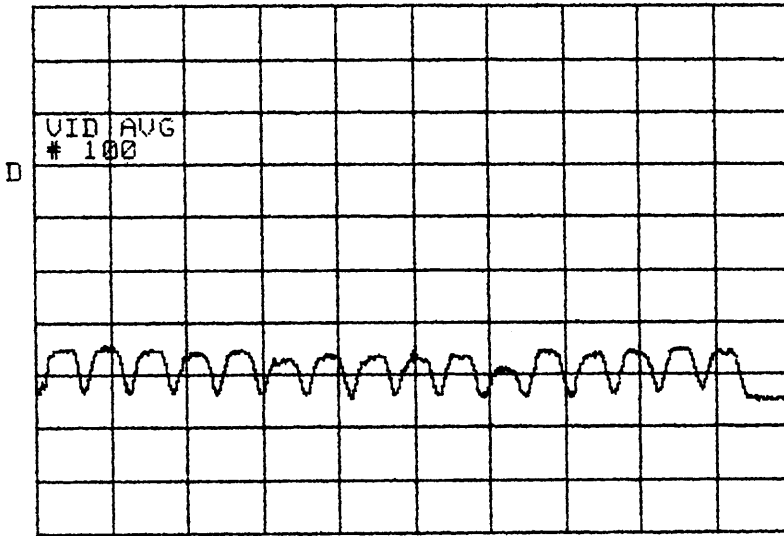
NPTx – Northpoint Transmitter.

8/18/99
7-1
Adura



8/18/99
7-2d
Adura.

ATTEN 10dB VAUG 100 MKR -67.50dBm
RL 0dBm 10dB/ 1.2200GHz

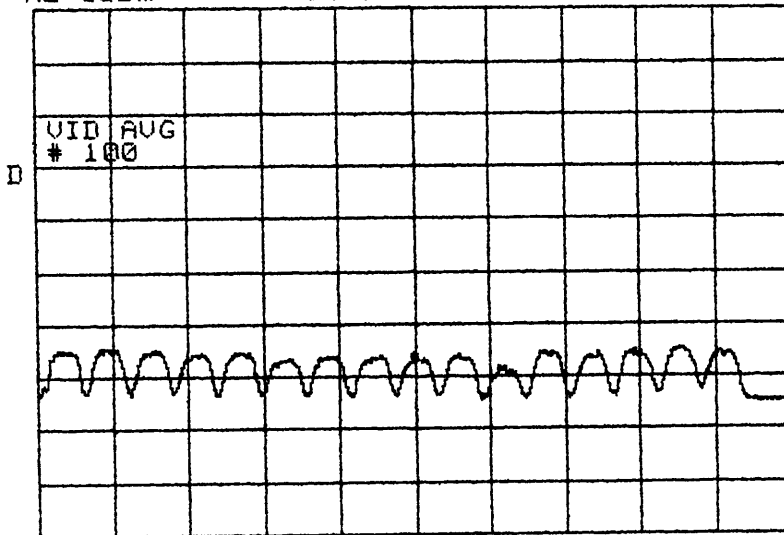


CENTER 1.2200GHz SPAN 500.0MHz
RBW 1.0MHz *VBW 10kHz SWP 130ms

8/18/99

7-3d

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



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

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.

7 ^{repeat}

p1

Set:

41

Re: Rx Condx Ref. No.

1

Date / Time:

8/18/99 4:55 pm EDT

Re: Tx Condx Ref. No.

1

Operator:

Jonathan Adura

Data Measurements:

NPTx Carrier Freq. (GHz)	12.47	NTC Filename	log 8-18-99.dat
Satellite Monitored	ES-119	Transponder	T- 18

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

Weather - Hazy and cloudy near satellites

#	Time -- EDT	Condition / Event
		NPTx <u>OFF</u> Only logging aircraft
	4:59:56 pm	Begin logging events
	5:00:13	Airplane overhead
	01:44	Large Van stopped in front of dish for approx. 20 sec.
	03:25	Airplane
	07:24	Airplane
	11:45	Airplane
	15:54	Airplane
	18:34	Helicopter
	5:19:03	NPTx <u>ON</u>
	19:53	Airplane
	23:59	Airplane
	25:40	Airplane
	27:36	Airplane
	30:30	Airplane
	36:20	Airplane
	38:05	Airplane
	35:57	Airplane
	41:54	Airplane
	46:40	Airplane
	48:49	NPTx <u>OFF</u>
	49:49	Airplane
	6:03:00	End of Logging Events

Weather ~ 85°-70°, Haze near ES-119, large cumulus clouds elsewhere

Northpoint Technology – DBS Compatiblilty Test – Washington DC Area

Rx Site Location Log

Rx Site No.

Repeat

p1

Set:

41

Site Name:

Date / Time:

8/18/99 6:08 EDT

Operator:

GPS Receiver Reading at Site:

Lat: _____

Time Read _____ EDT

Lon: _____

Elev: _____

Weather:

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

same as previous