

PRODELIN
CORPORATION

Prodelin Corporation

*F. Maiden Antenna Test Range
4488 Lawing Chapel Church Rd.
Maiden, North Carolina 28650*

Test No. 1022

**1.2M .8 f/d
Antenna System**

FCC Data Package

This package contains original patterns

Prodelin Corporation
A TriPoint Global Company
1500 Prodelin Drive
Newton, NC 28658

Antenna Design Patterns

1.2M G/T/1-MHz Band Antenna System
Test No. 1022

Frequencies Tested

10.95 GHz	14.00 GHz
11.95 GHz	14.25 GHz
12.20 GHz	14.50 GHz

Antenna Range Patterns

1.2M .8 f/d Ku-Band Antenna System

Test No. 1022

Frequency	Polarization	Gain	Efficiency
10.95	Vertical	40.79	63.35%
10.95	Horizontal	40.87	64.52%
11.95	Vertical	41.54	63.21%
11.95	Horizontal	41.80	64.08%
12.20	Vertical	42.38	73.58%
12.20	Horizontal	42.27	71.75%
14.00	Vertical	42.98	64.16%
14.00	Horizontal	43.04	65.06%
14.25	Vertical	43.11	63.81%
14.25	Horizontal	43.19	65.00%
14.50	Vertical	43.29	64.24%
14.50	Horizontal	43.31	64.54%

Vertical Polarization

File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 10.950 GHz

Operator: D. Lutz

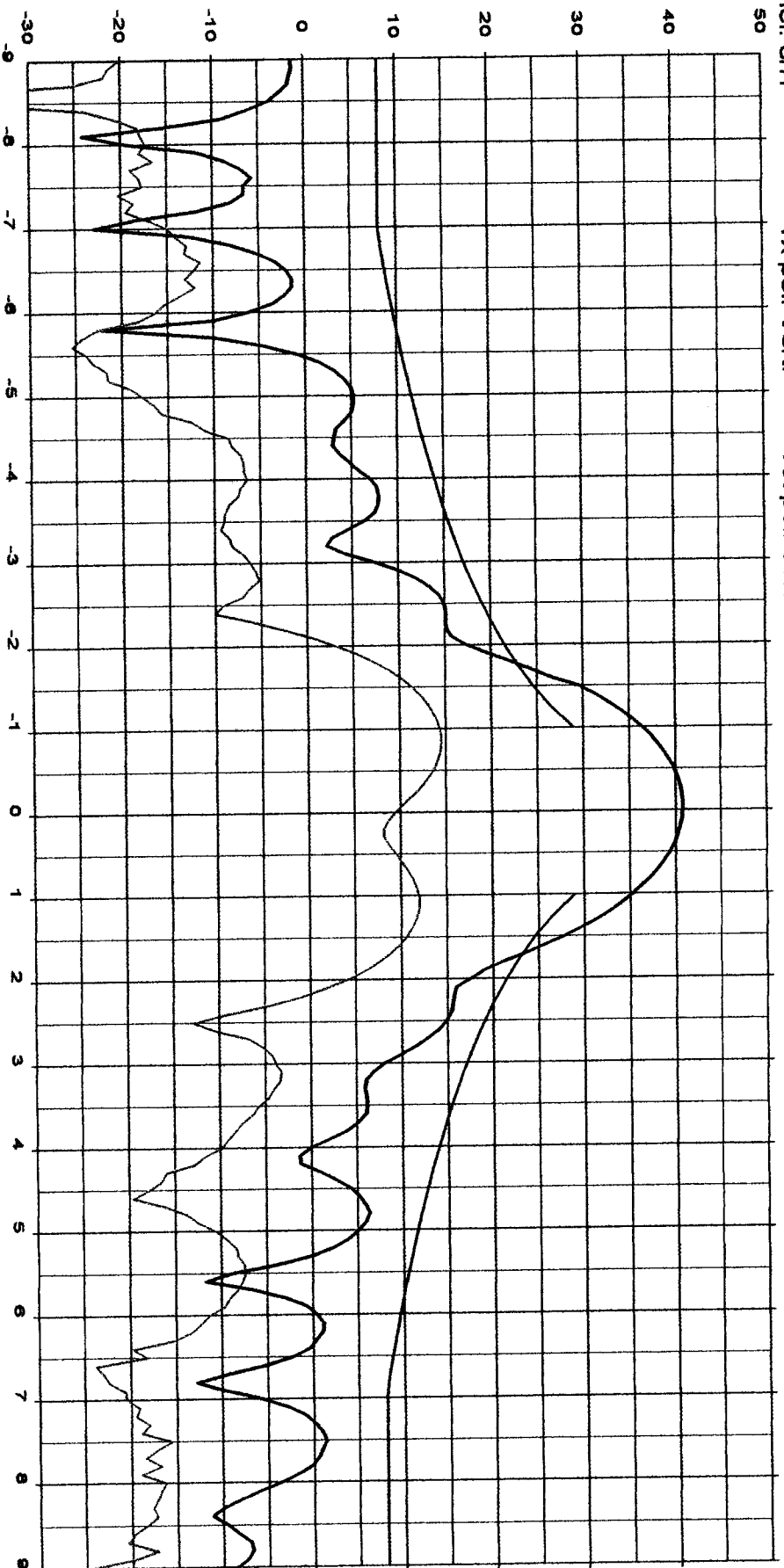
Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.

Magnitude (dBi)



Azimuth (Deg)

Beam Peak

Deg dB

-0.05 40.79

-0.85 14.49

Overlays

102205.DAT-ant_under_test—

Cal. file 102205.DAT

units dBi

102208.DAT

File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 11.950 GHz

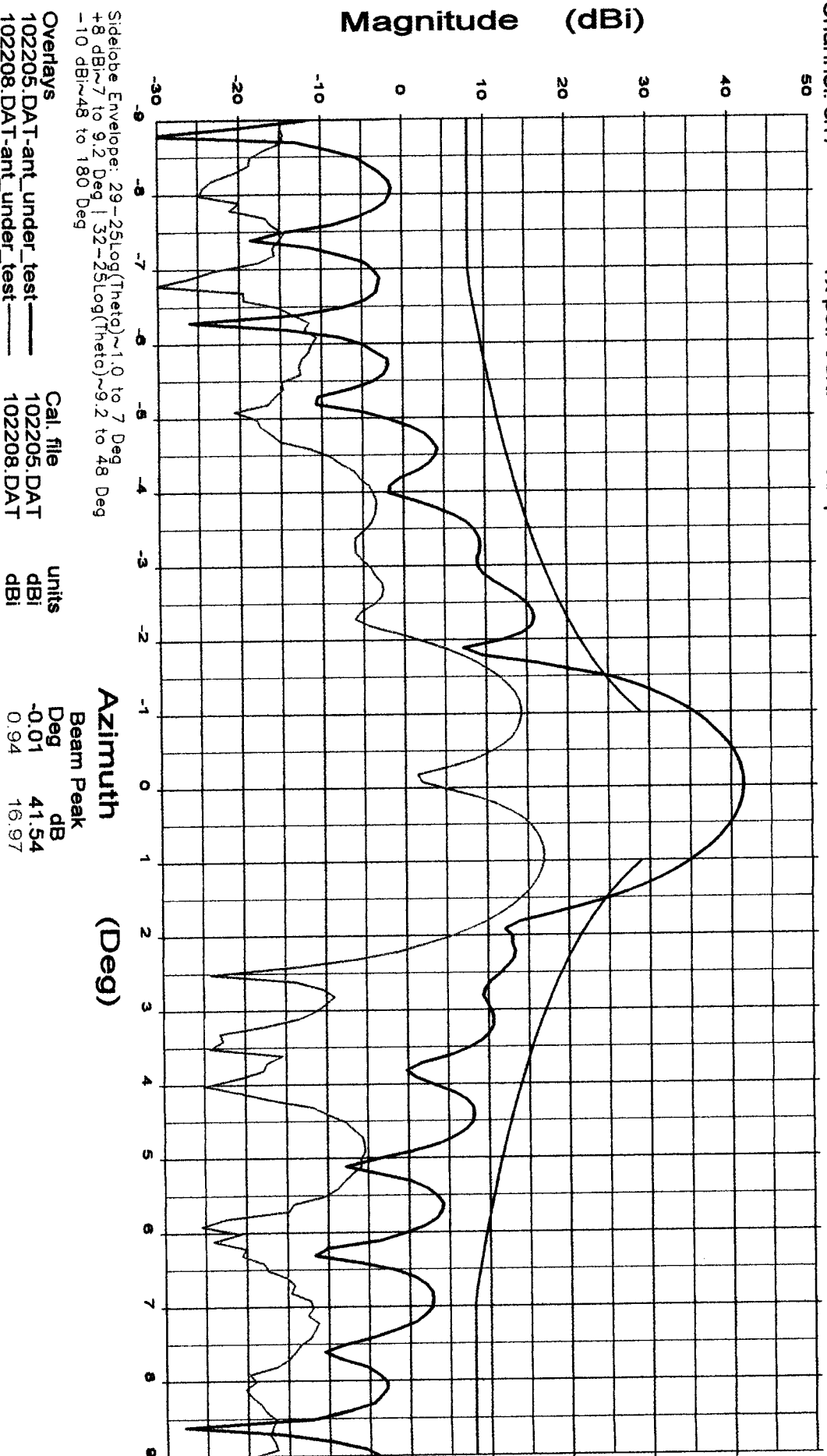
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency: 12.200 GHz

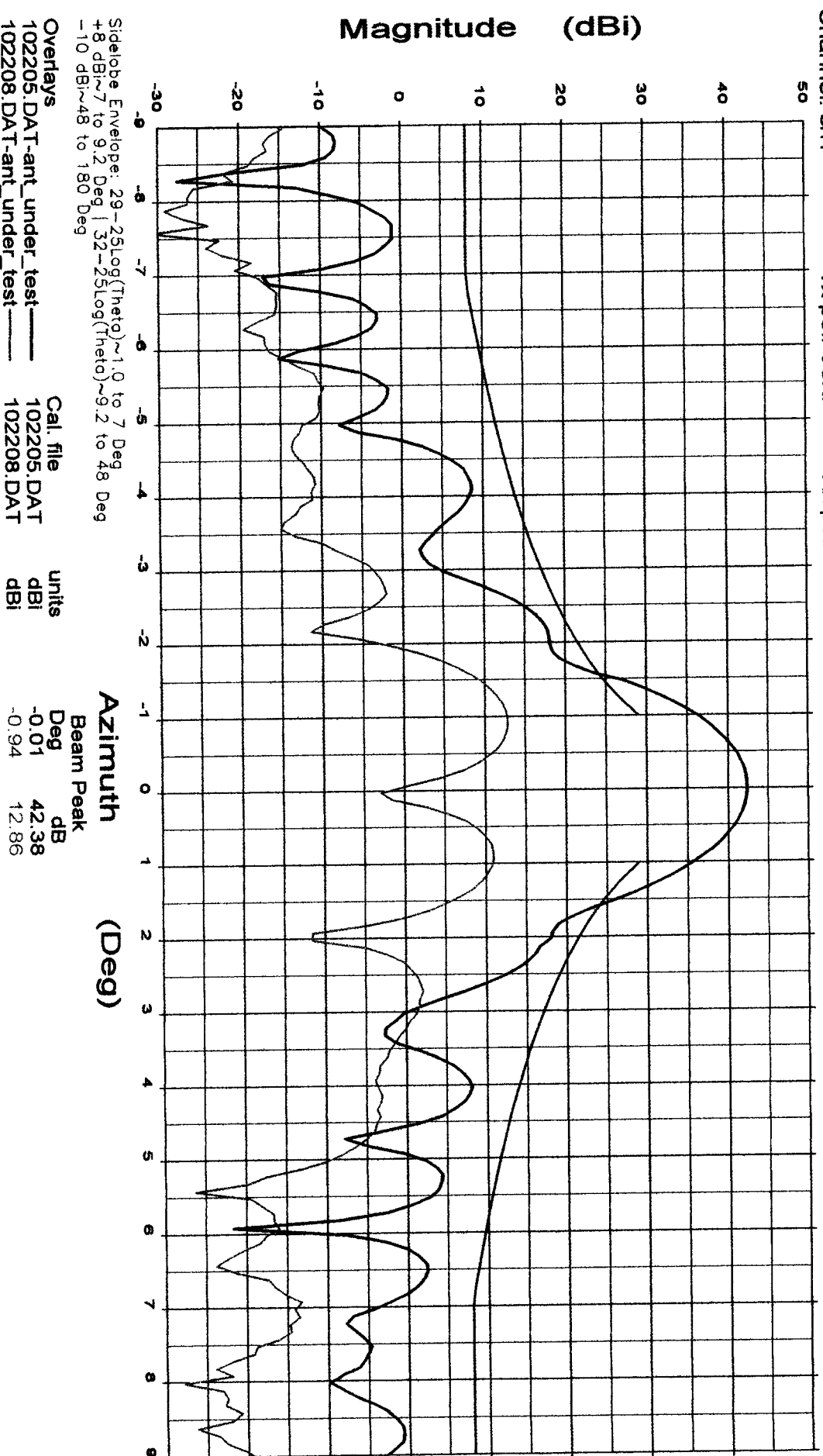
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.000 GHz

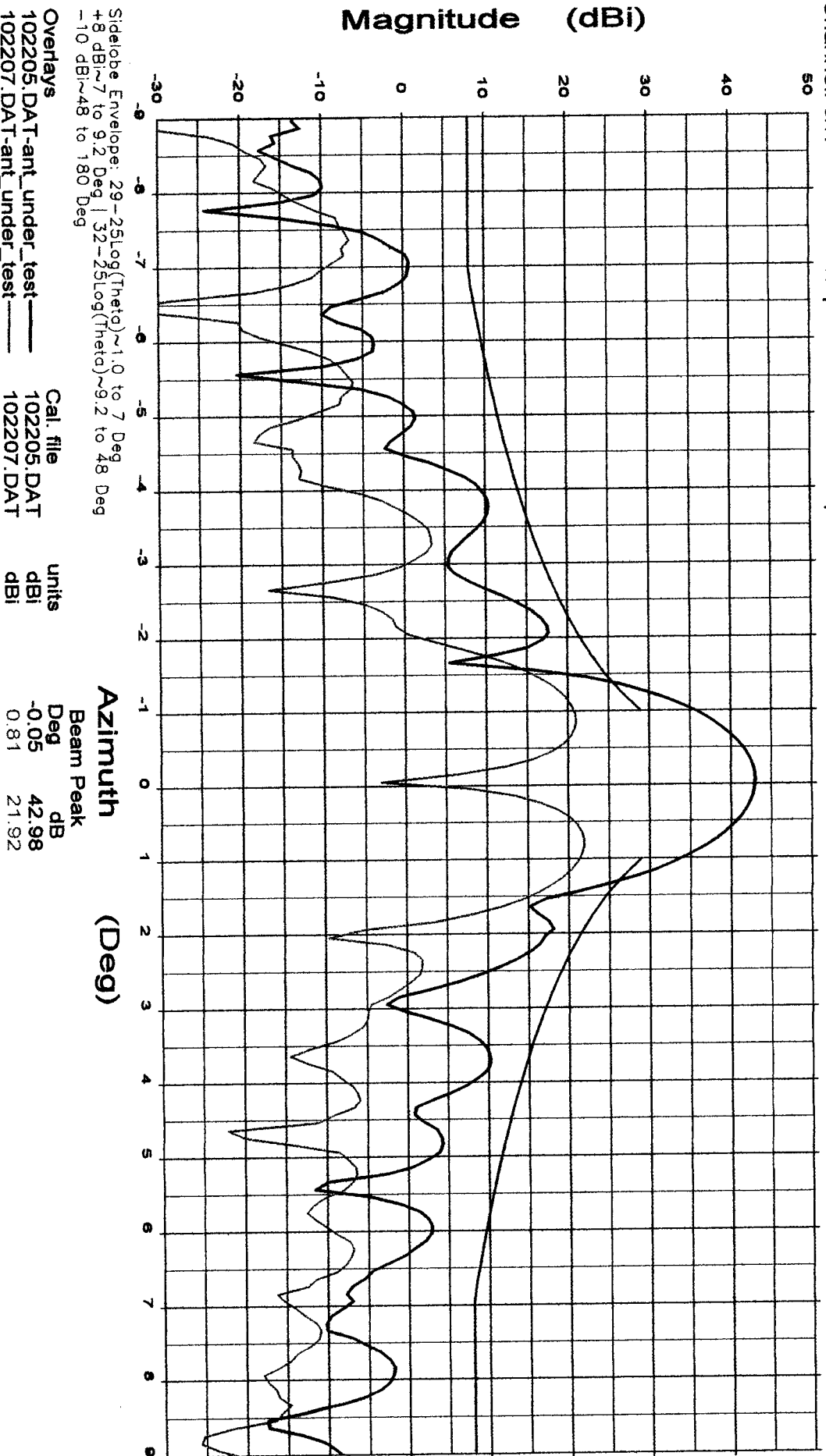
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.250 GHz

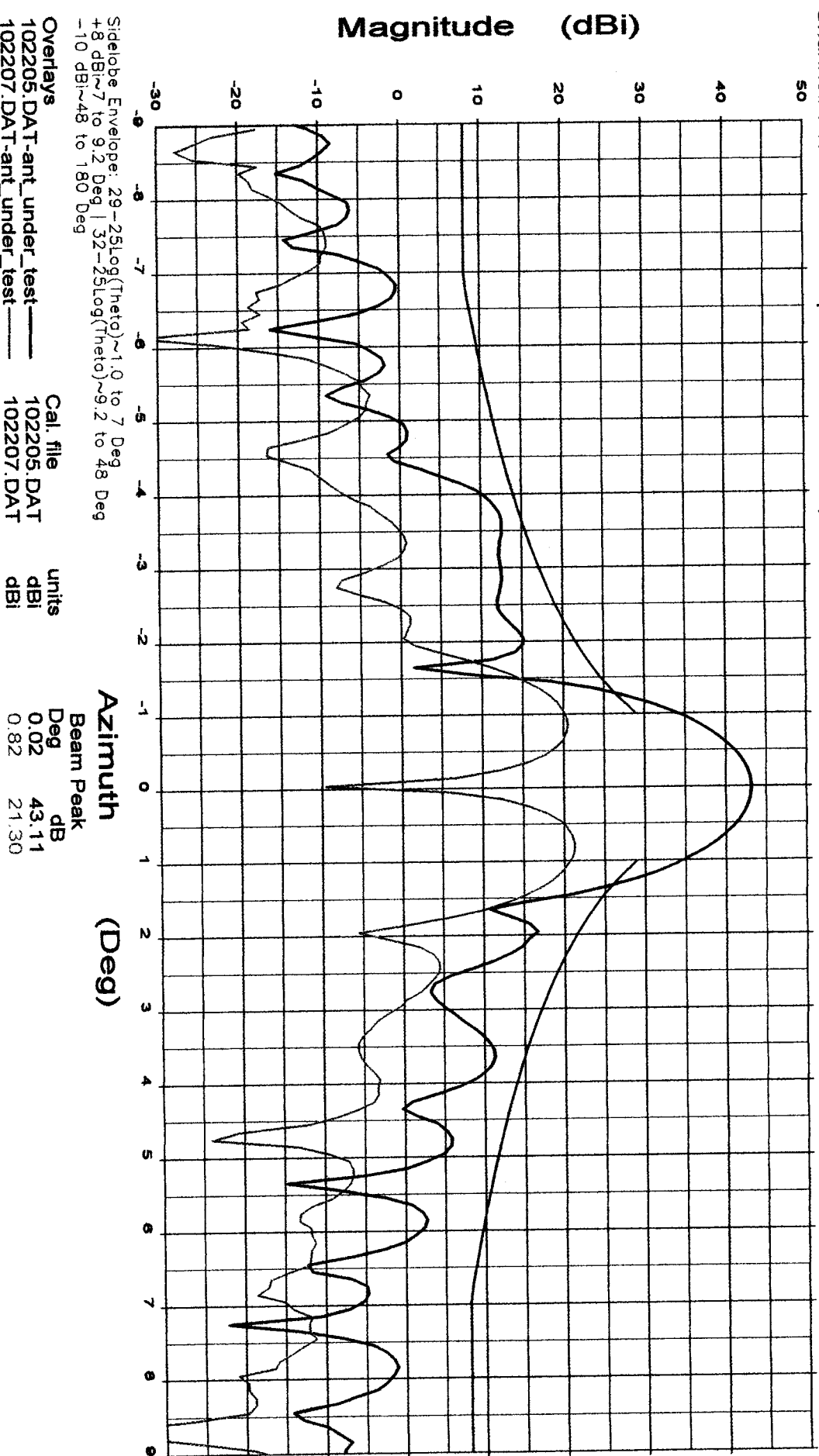
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.500 GHz

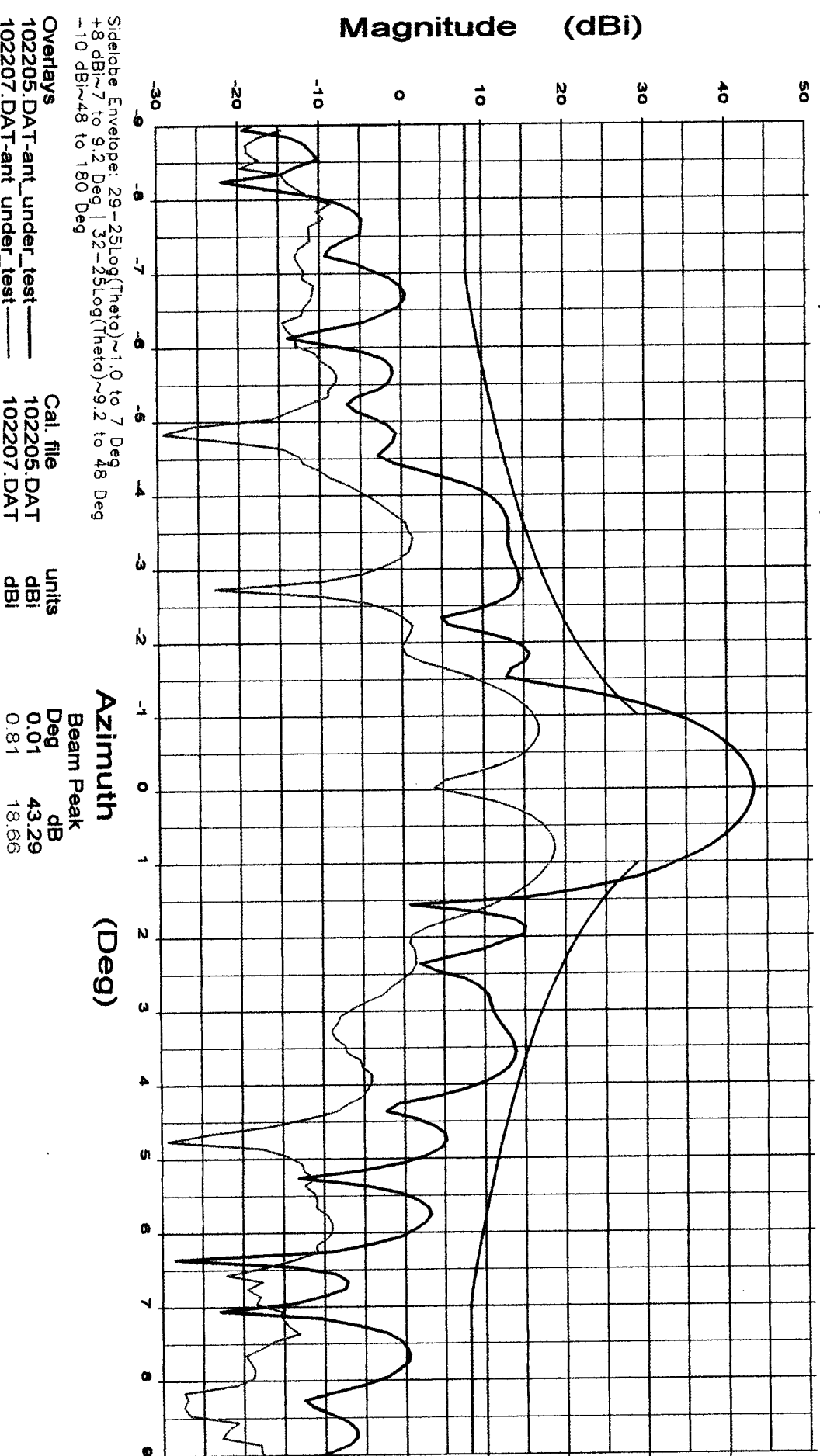
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

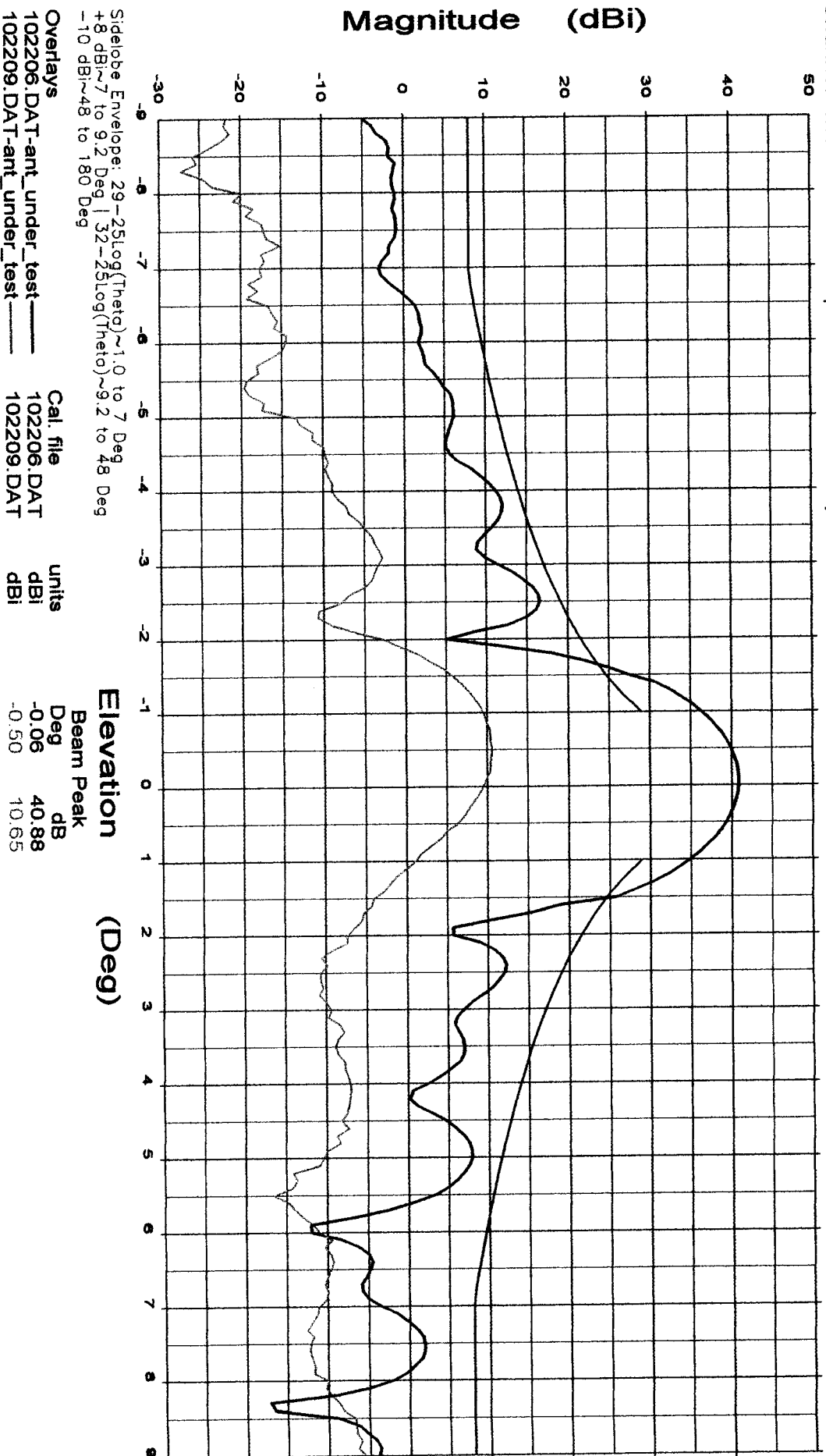
1.2M .8 f/d Ku-Band Antenna System

Frequency : 10.950 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 11.950 GHz

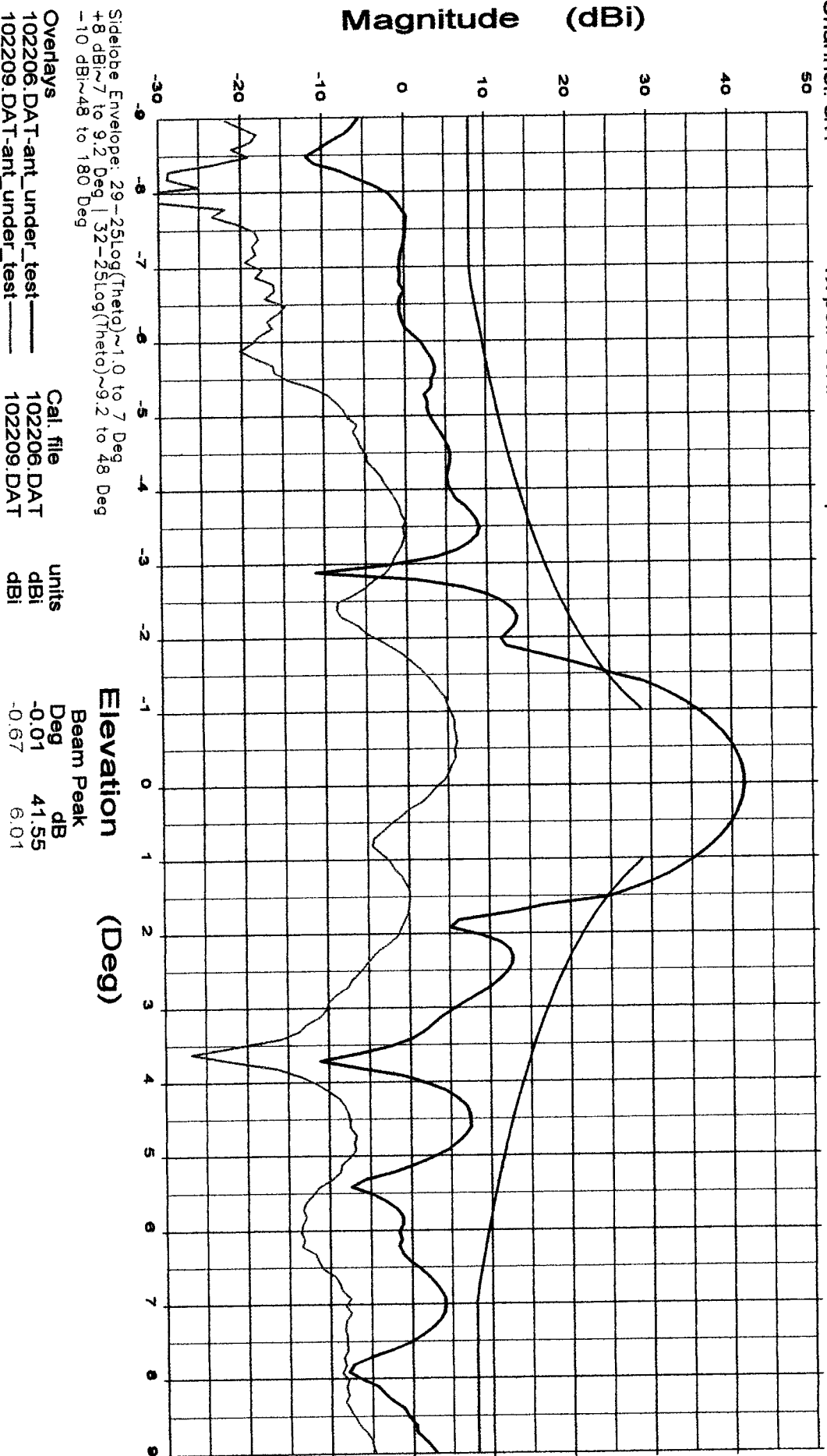
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

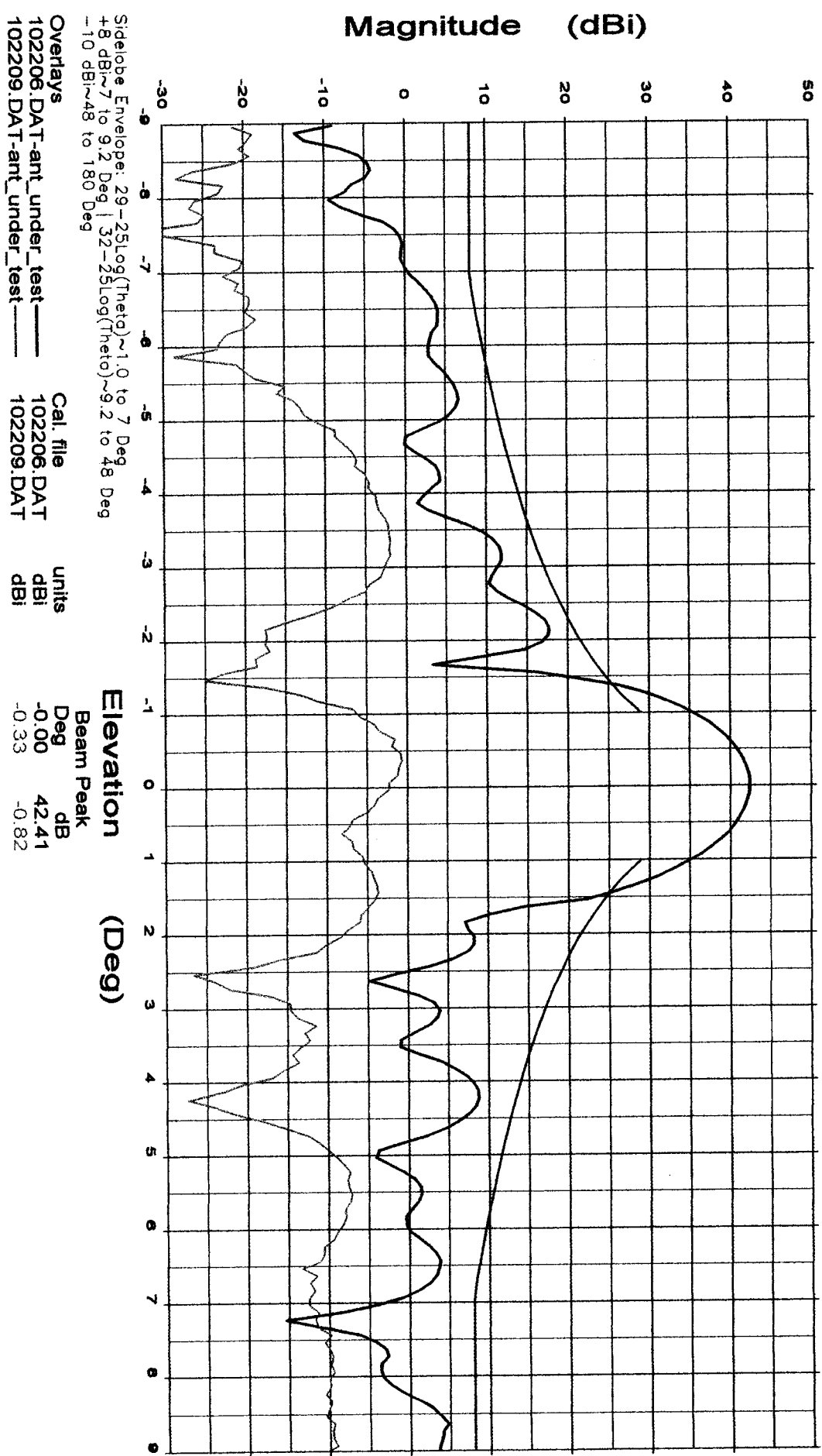
1.2M .8 f/d Ku-Band Antenna System

Frequency: 12.200 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.000 GHz

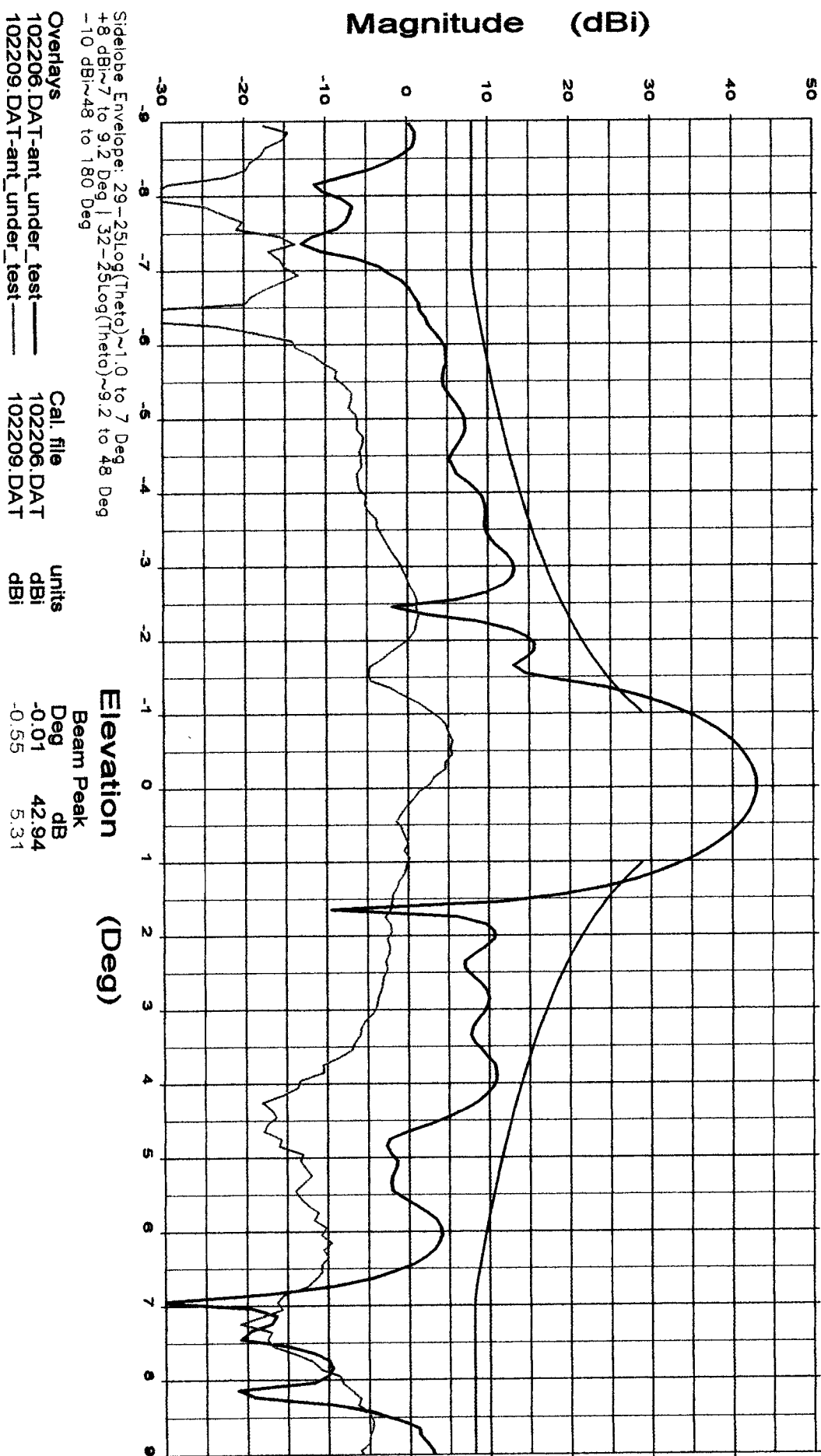
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

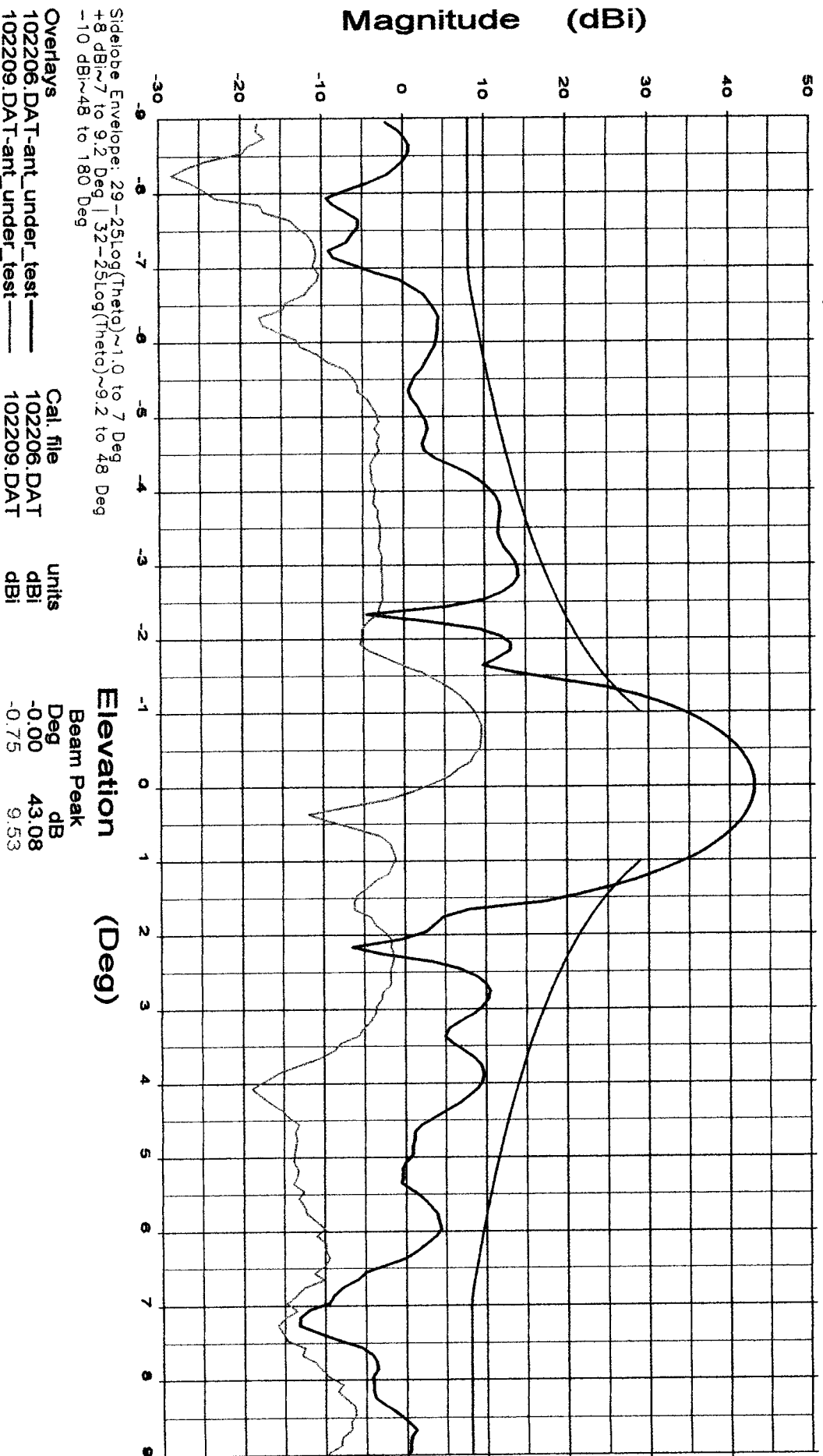
1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.250 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.500 GHz

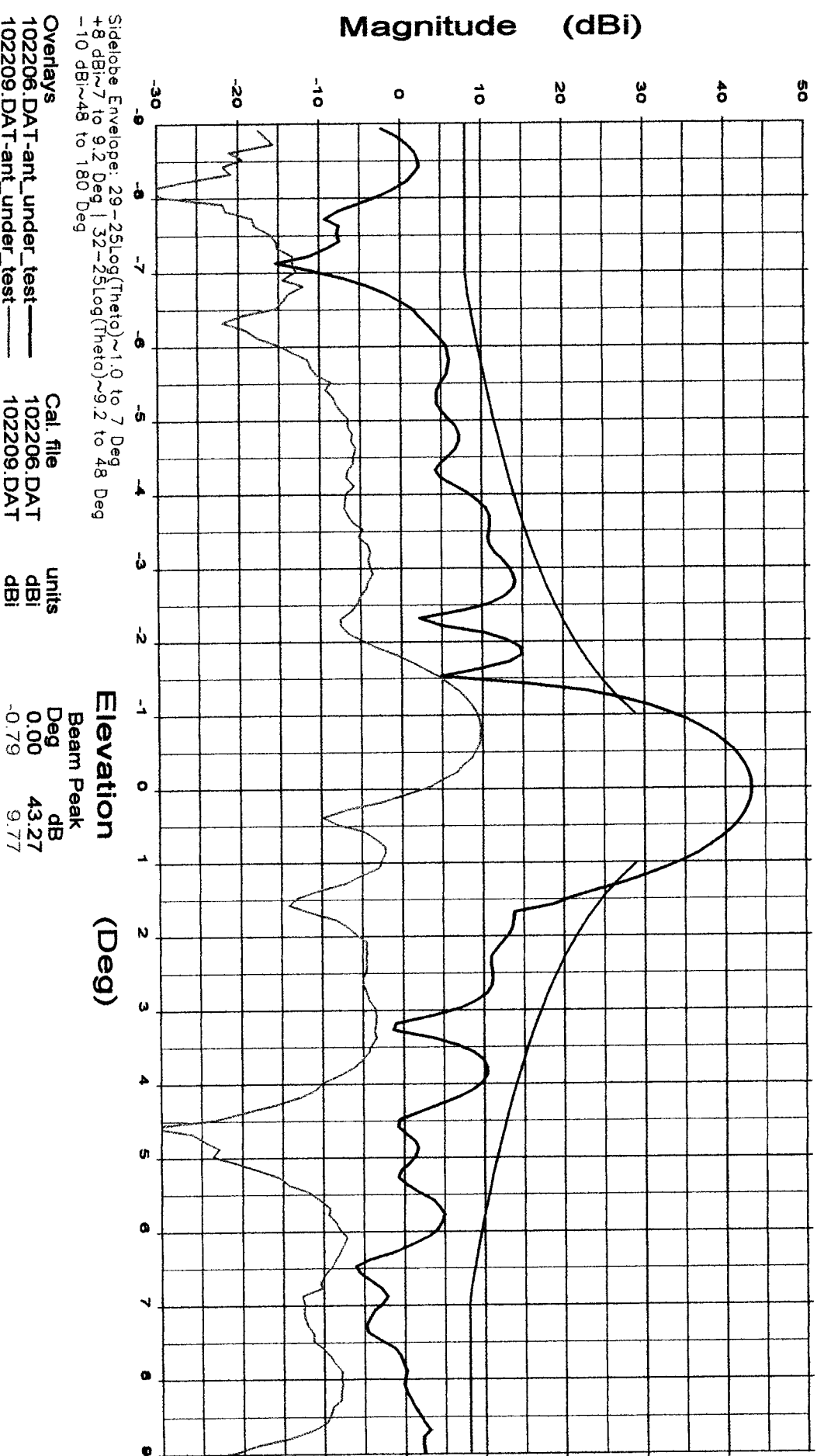
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

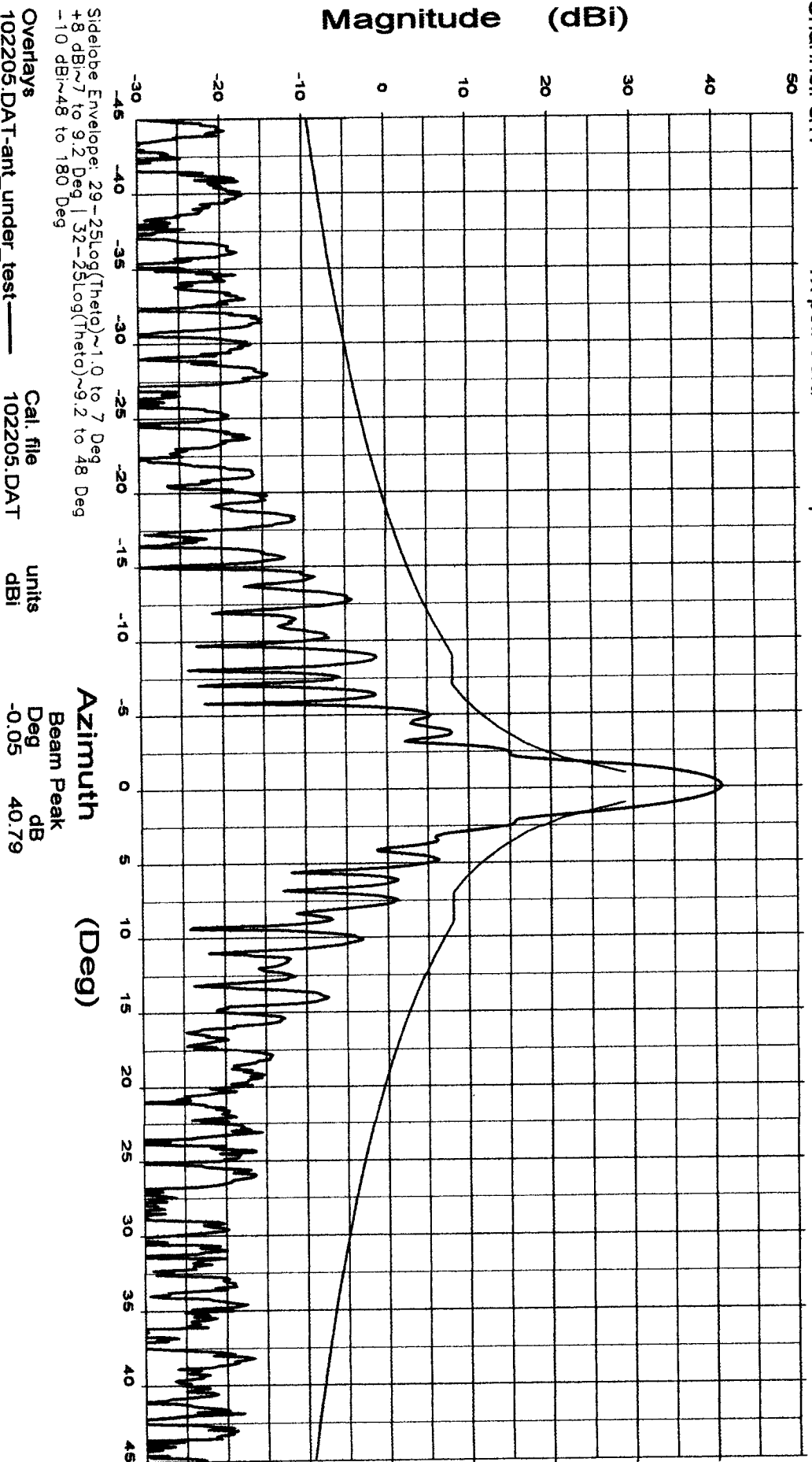
1.2M .8 f/d Ku-Band Antenna System

Frequency : 10.950 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 11.950 GHz

Operator: D. Lutz

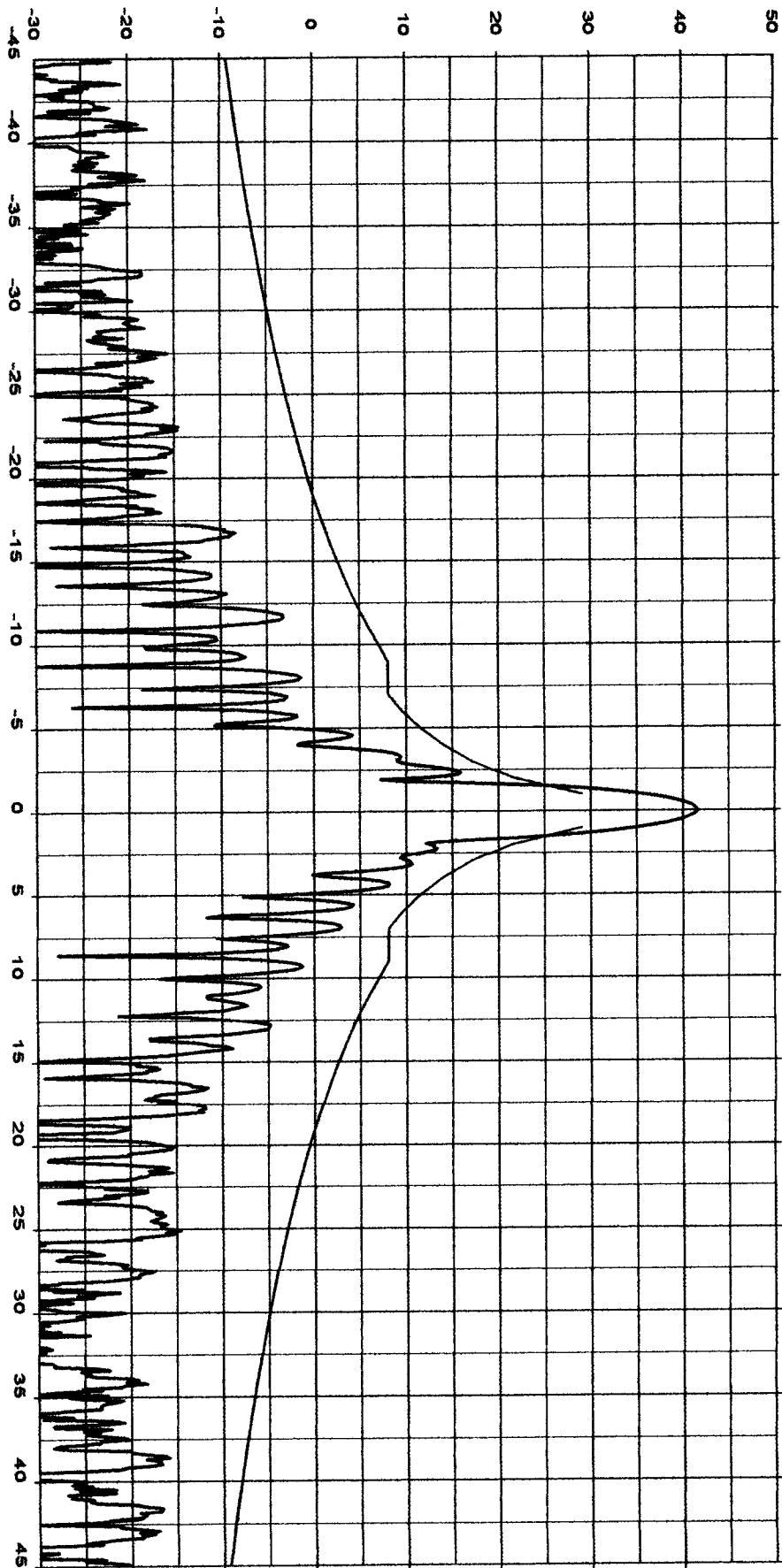
Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.

Magnitude (dBi)



Sidelobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg
+8 dBi~7 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg
-10 dBi~48 to 180 Deg

Overlays
102205.DAT-ant_under_test——

Cal. file
102205.DAT

units
dBi

Azimuth
Beam Peak
Deg dB
-0.01 41.54

File: See Legend

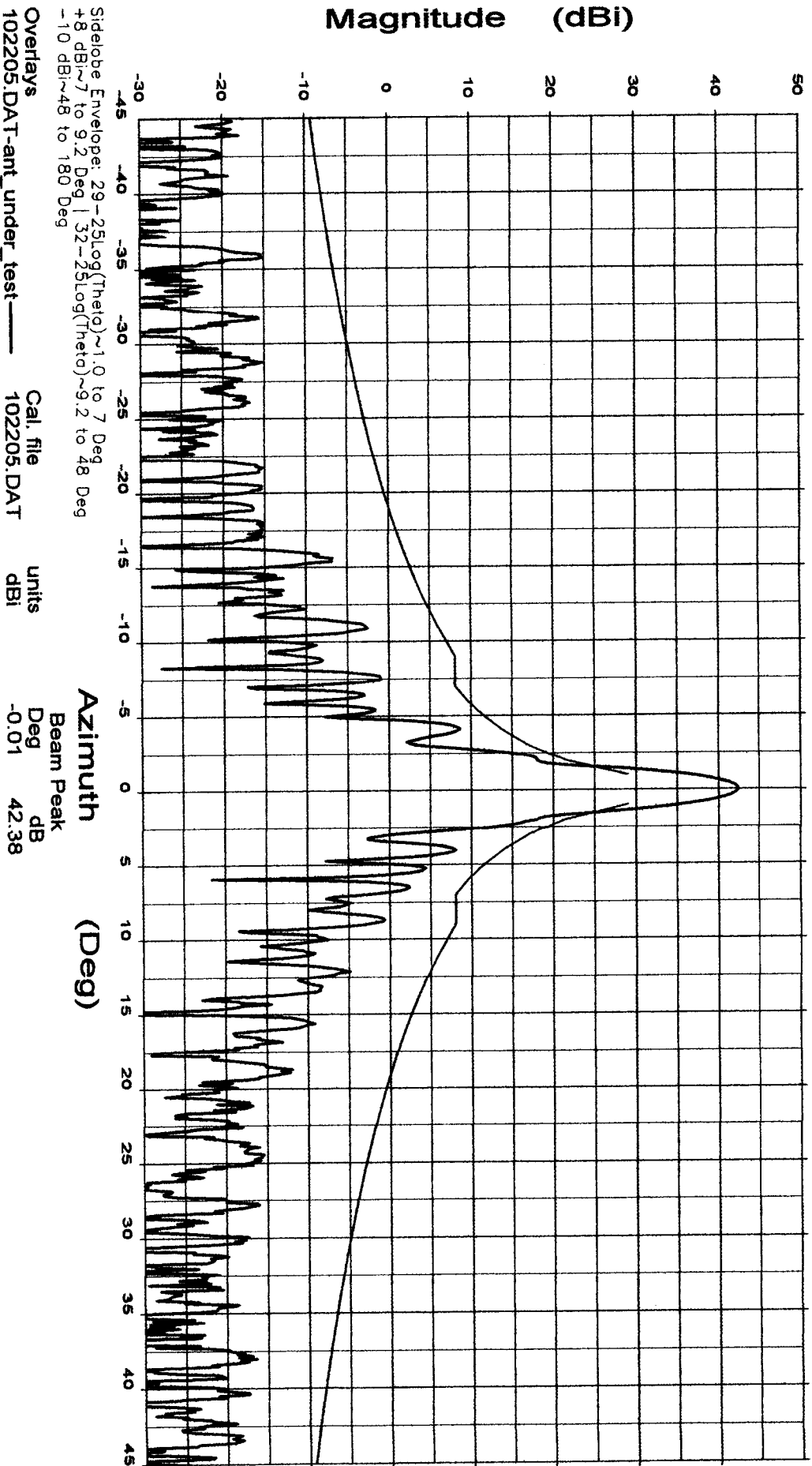
1.2M .8 f/d Ku-Band Antenna System

Frequency: 12.200 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

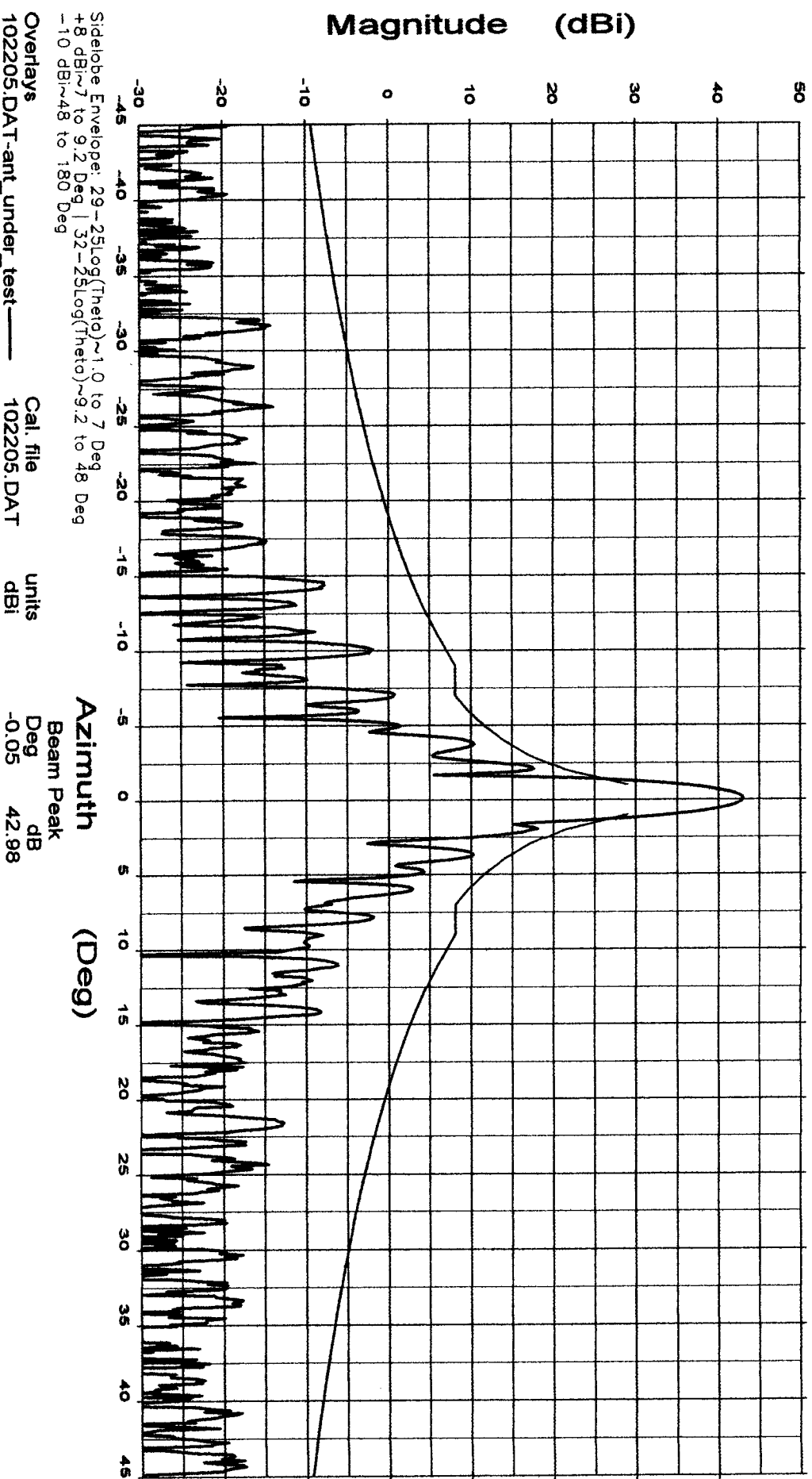
1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.000 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

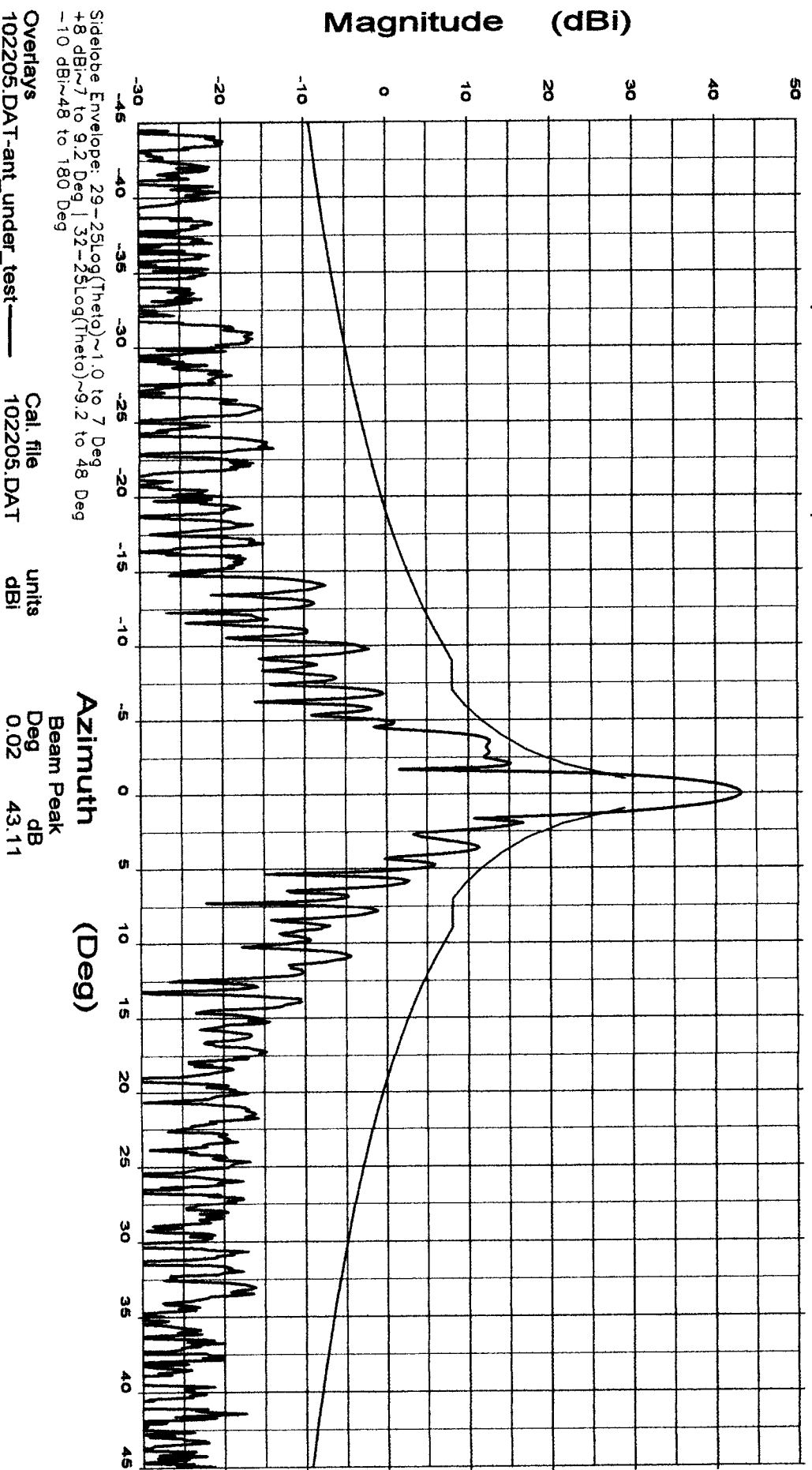
1.2M.8 f/d Ku-Band Antenna System

Frequency : 14.250 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.500 GHz

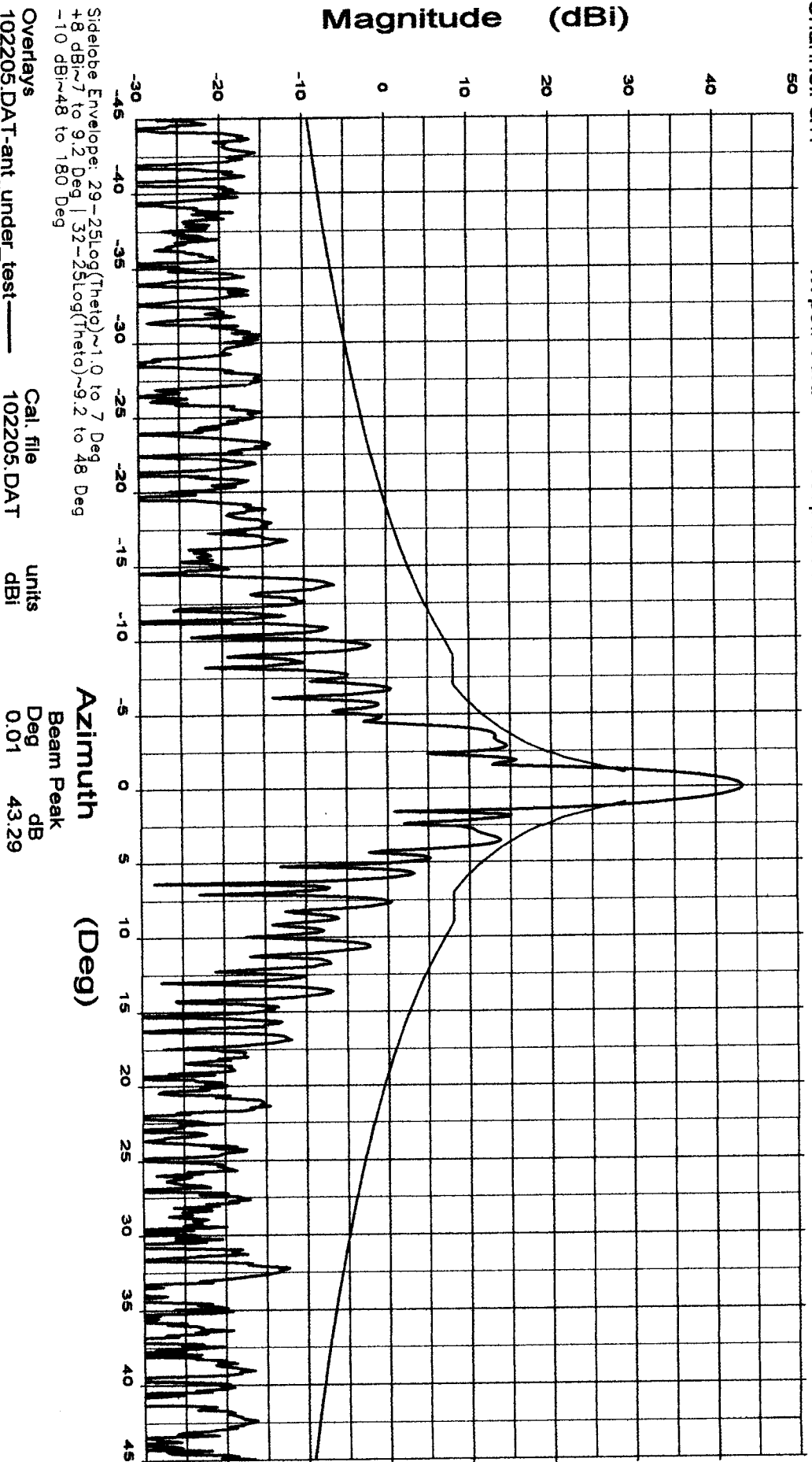
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 10.950 GHz

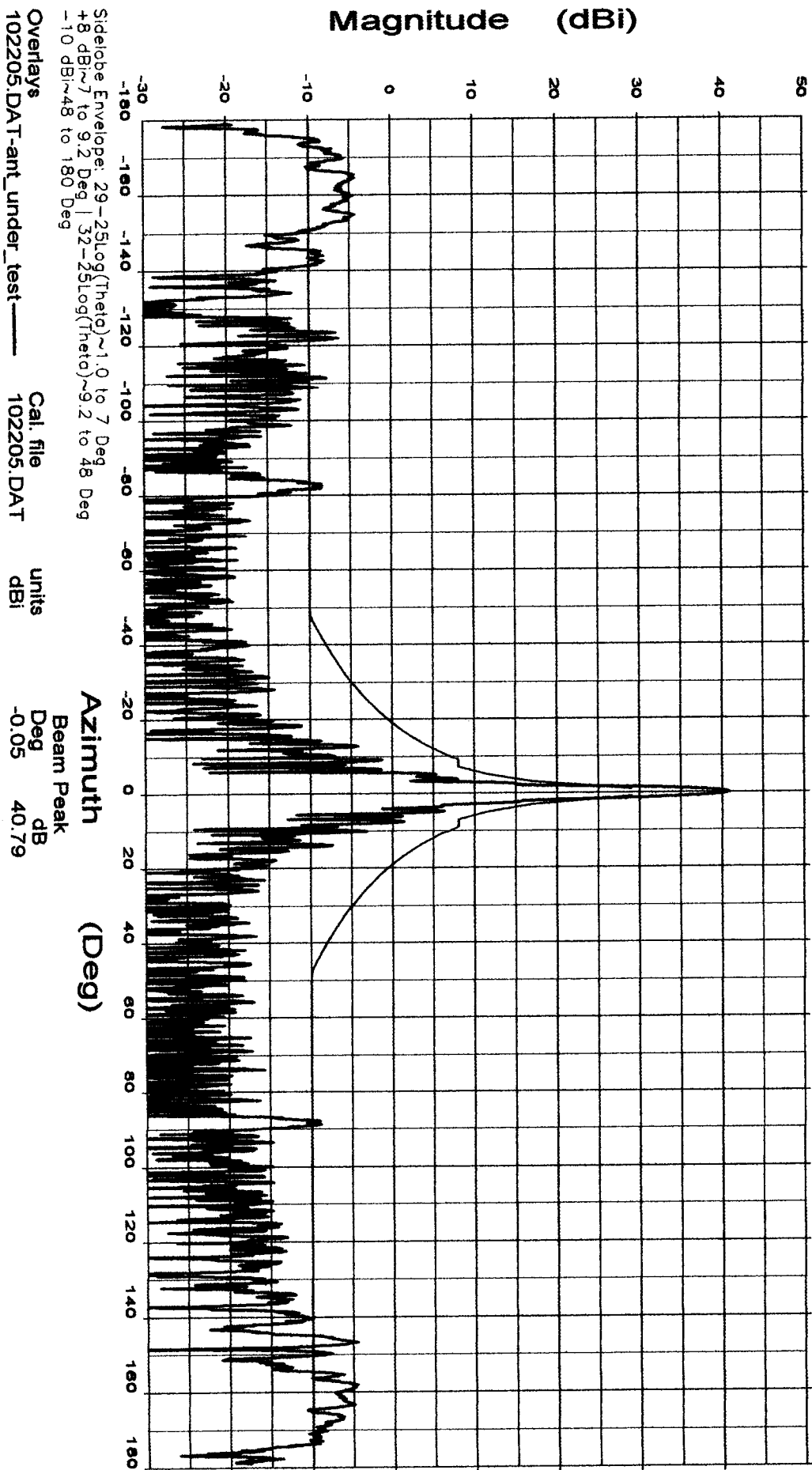
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 11.950 GHz

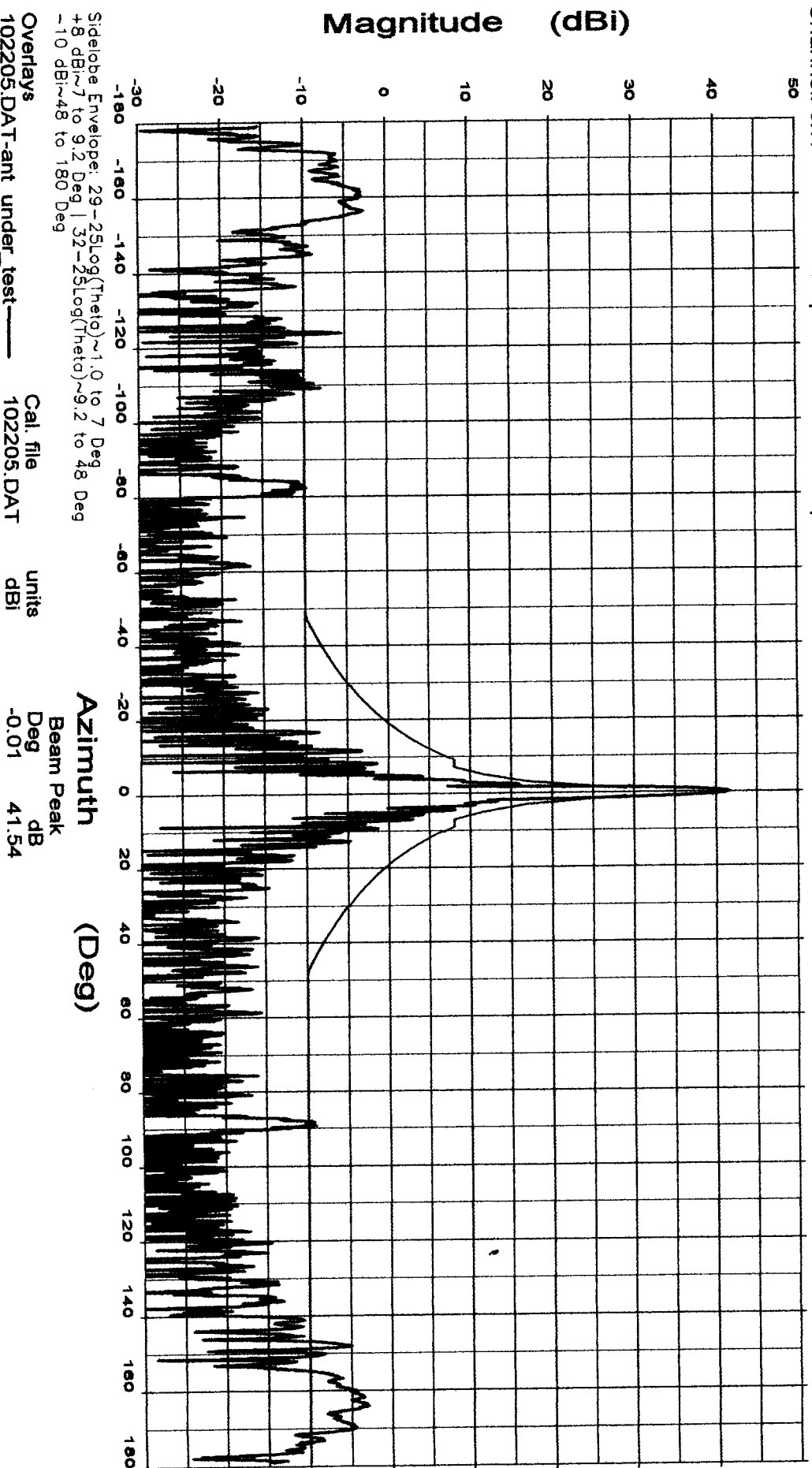
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

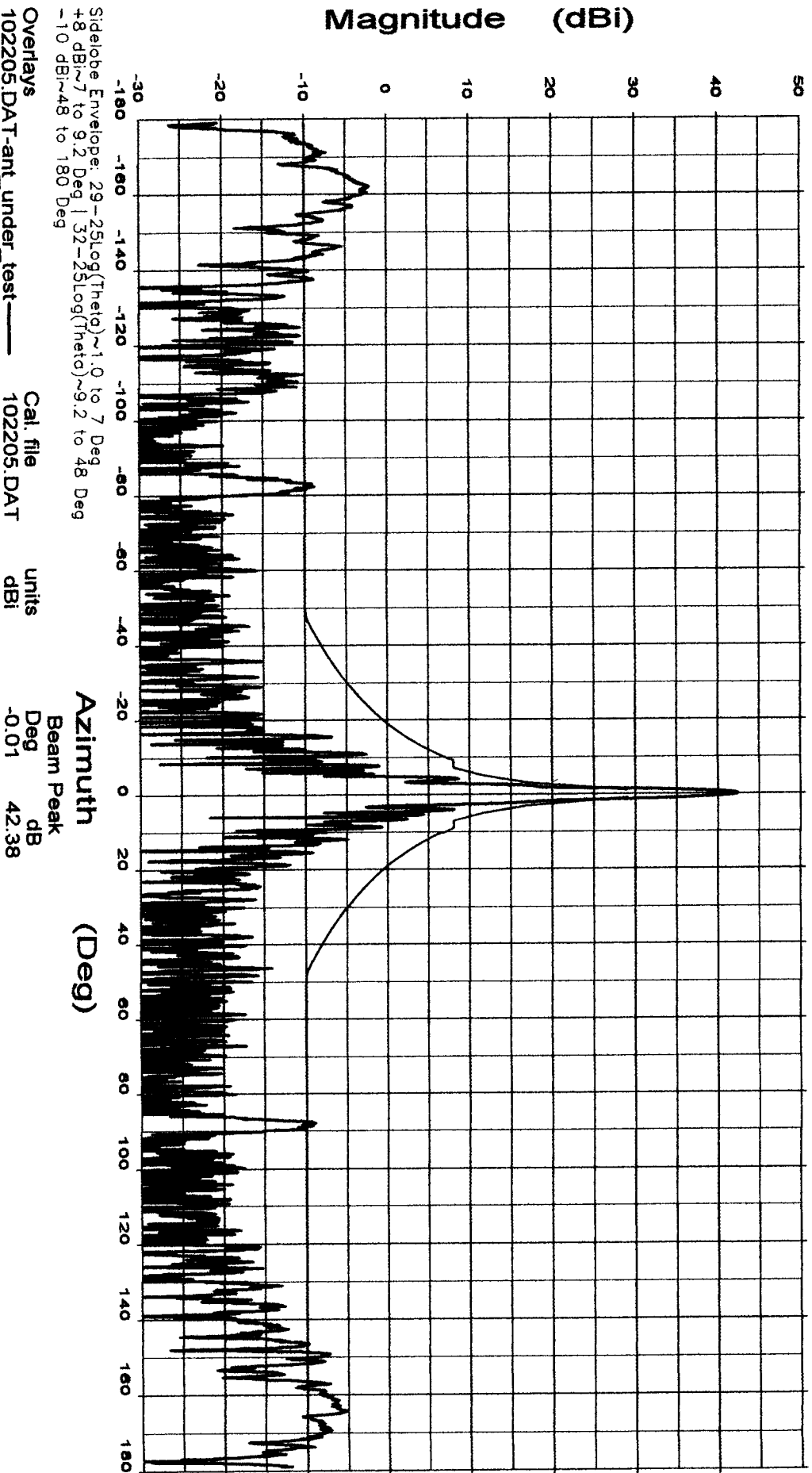
1.2M .8 f/d Ku-Band Antenna System

Frequency: 12.200 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

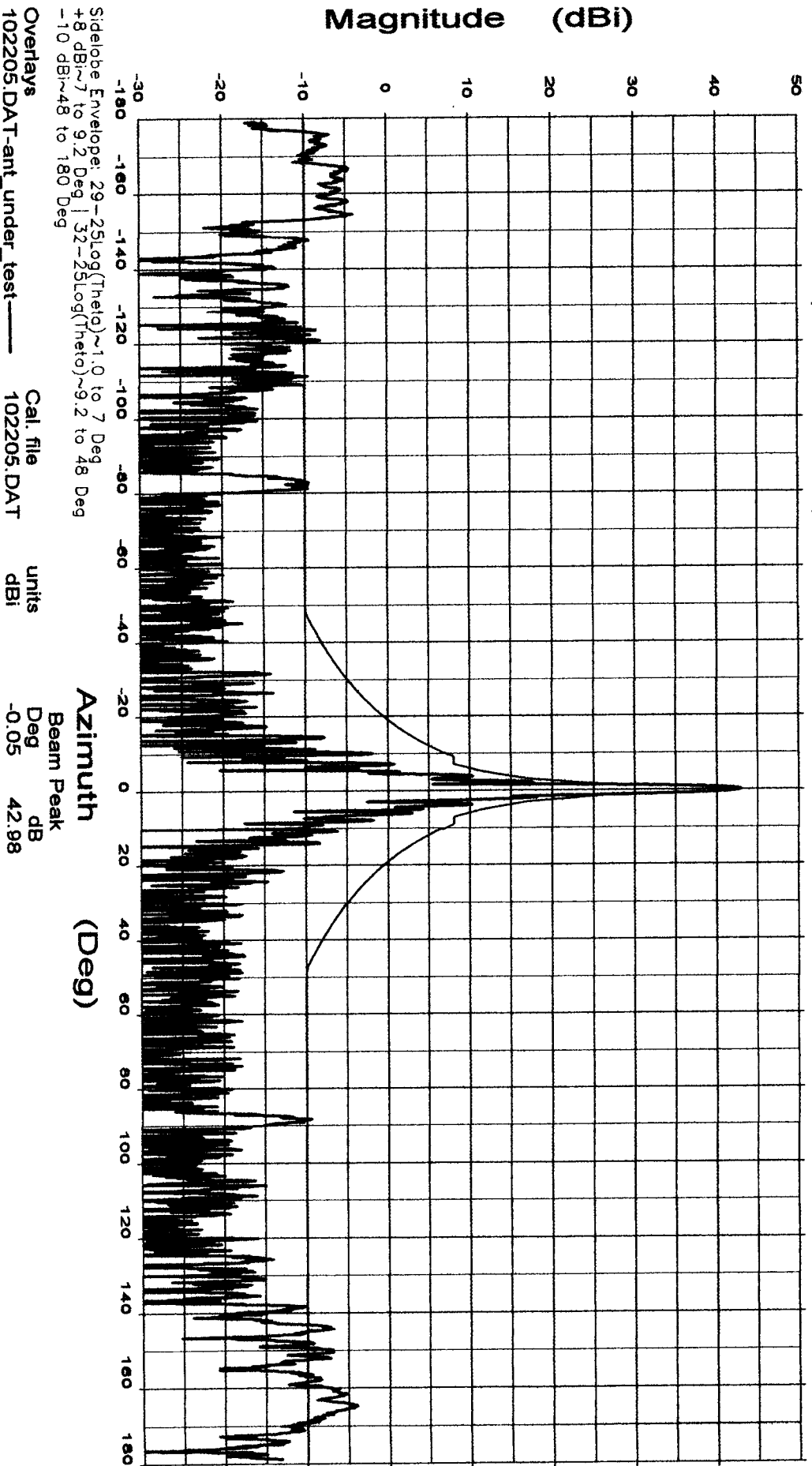
1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.000 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

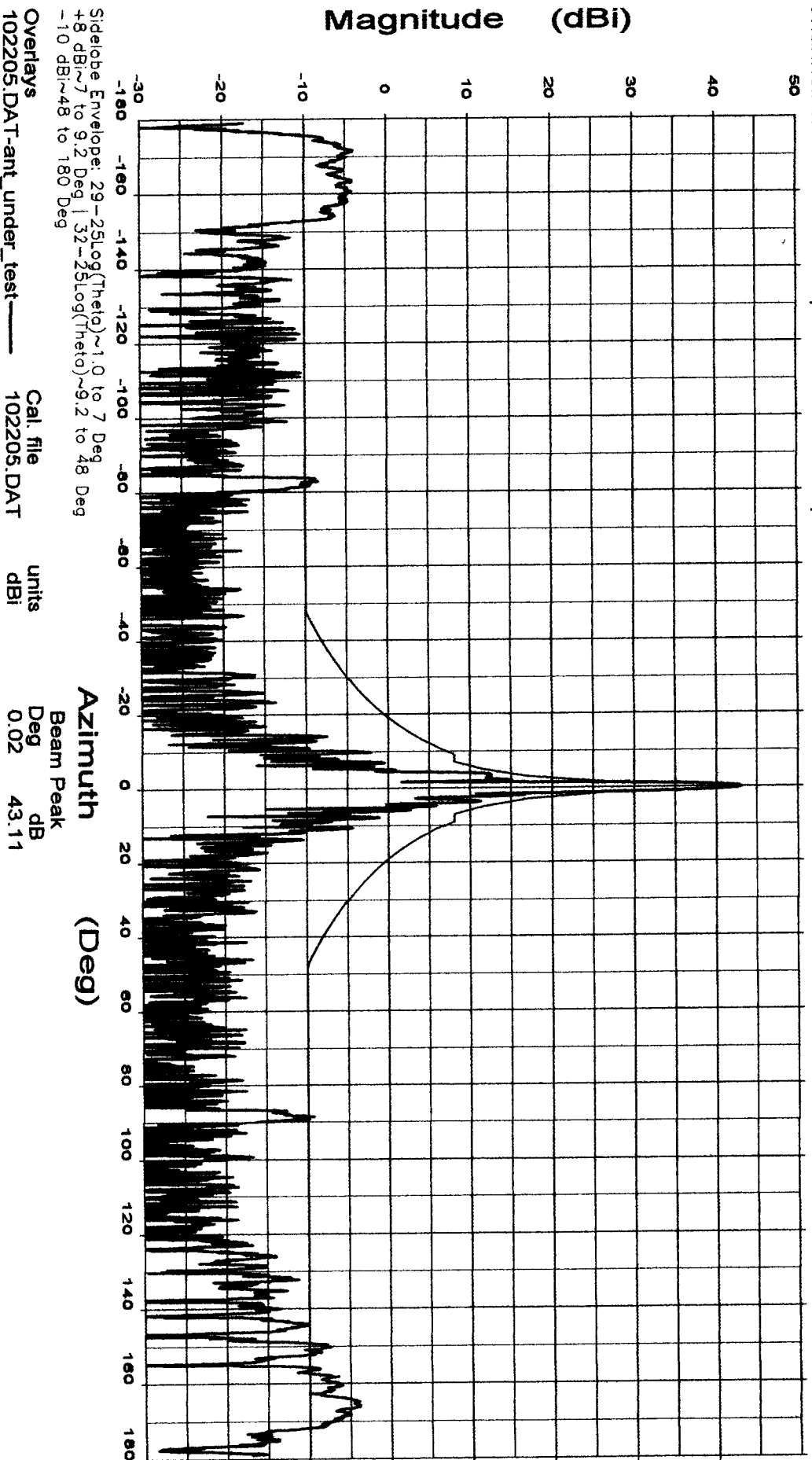
1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.250 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.500 GHz

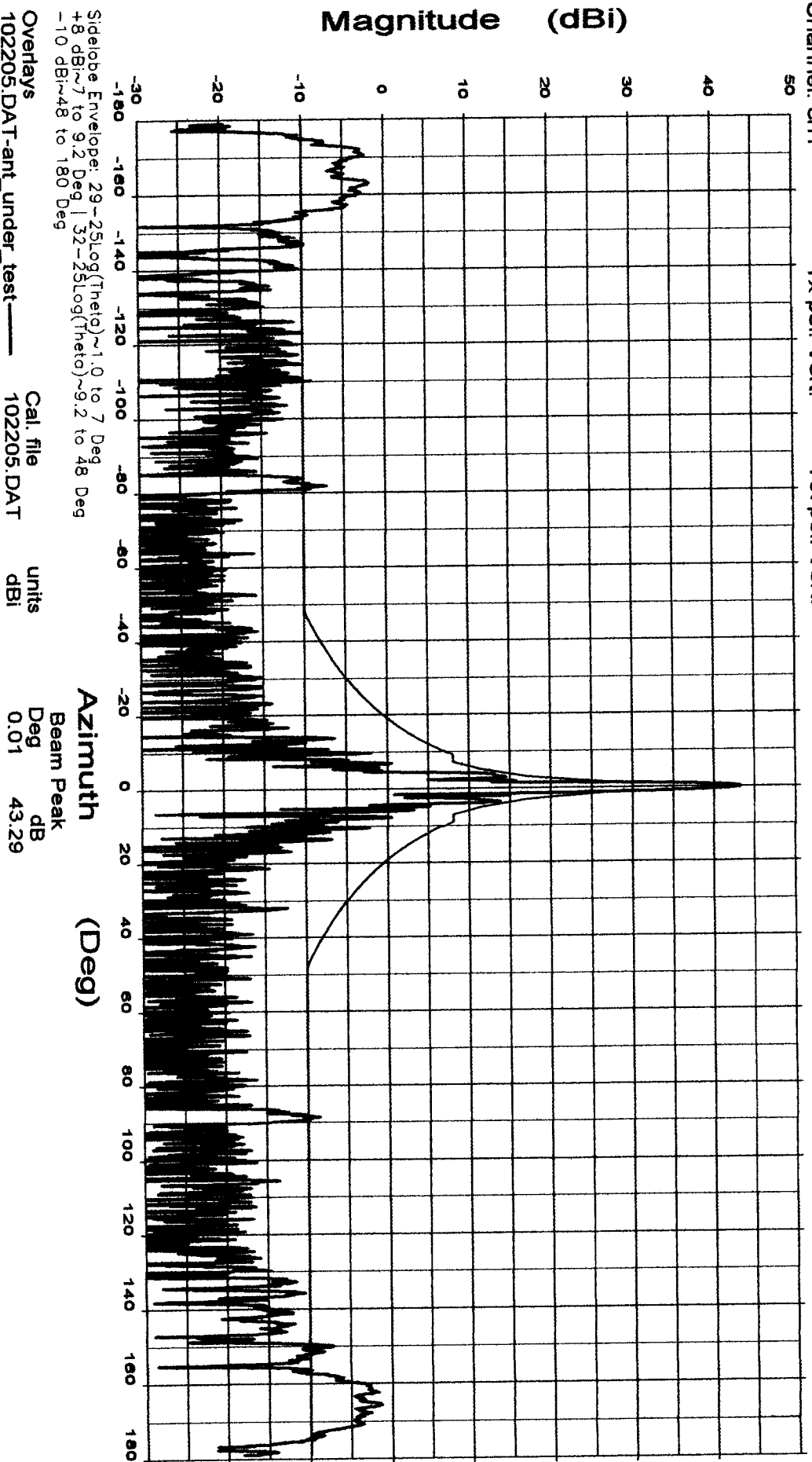
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Horizontal Polarization

File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 10.950 GHz

Operator: D. Lutz

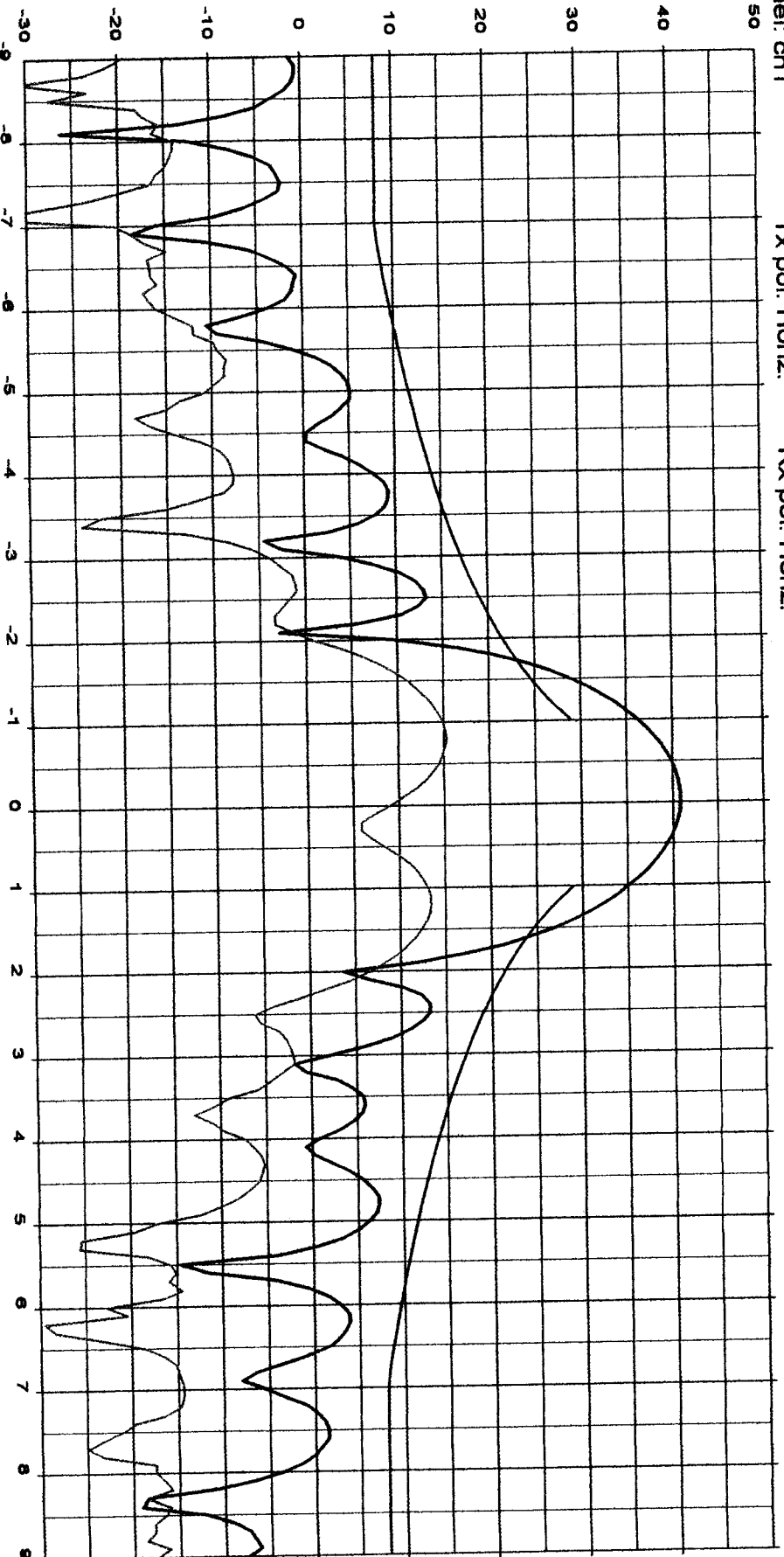
Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.

Magnitude (dBi)



Azimuth (Deg)

Sidelobe Envelope: 29-25log(Theta)~1.0 to 7 Deg
+8 dBi~7 to 9.2 Deg | 32-25log(Theta)~9.2 to 48 Deg
-10 dBi~48 to 180 Deg

Overlays

102200.DAT-ant_under_test

Cal. file 102200.DAT

units dBi

Beam Peak
Deg dB
-0.05 40.87
-0.81 15.27

File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 11.950 GHz

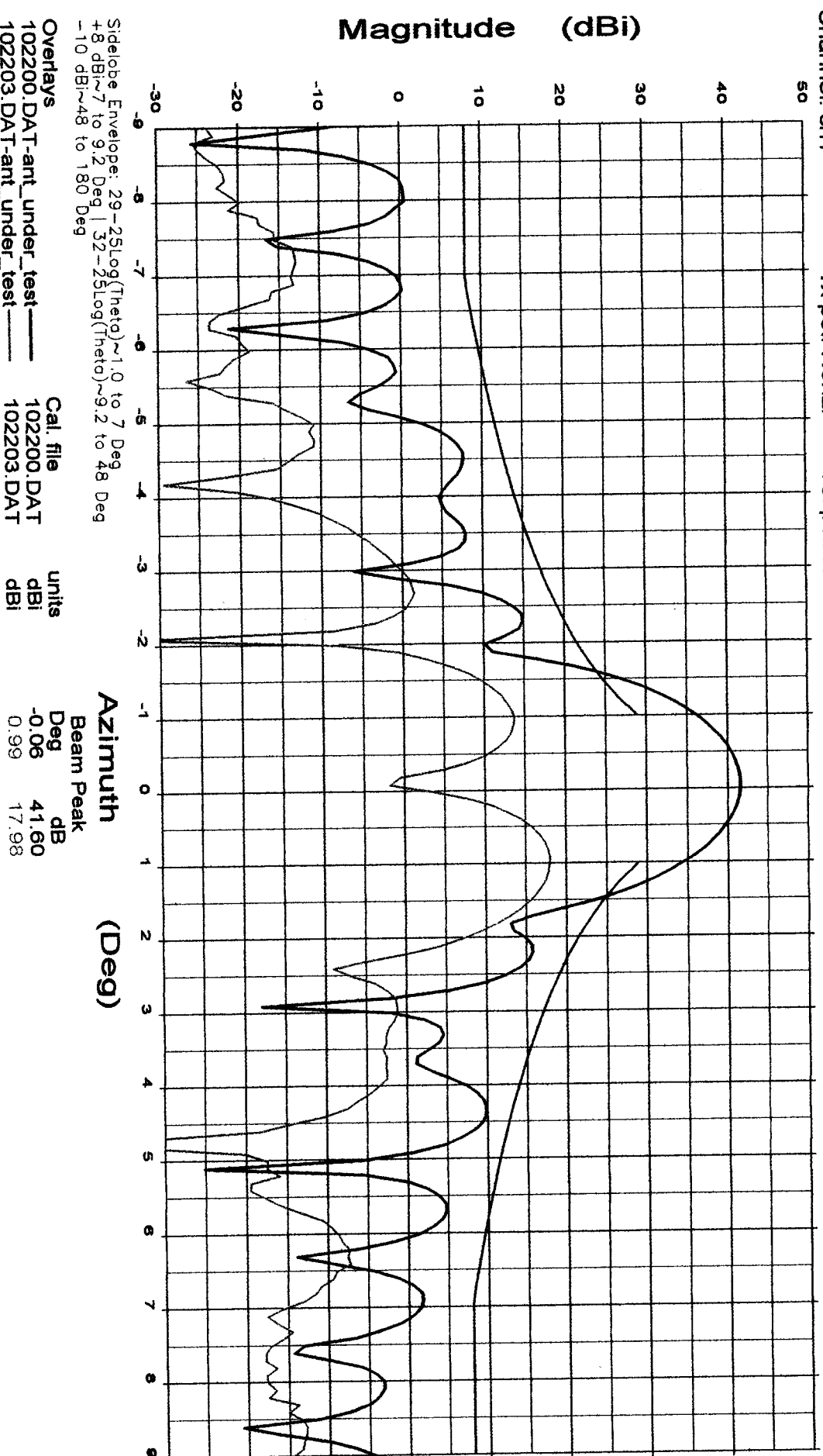
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency: 12.200 GHz

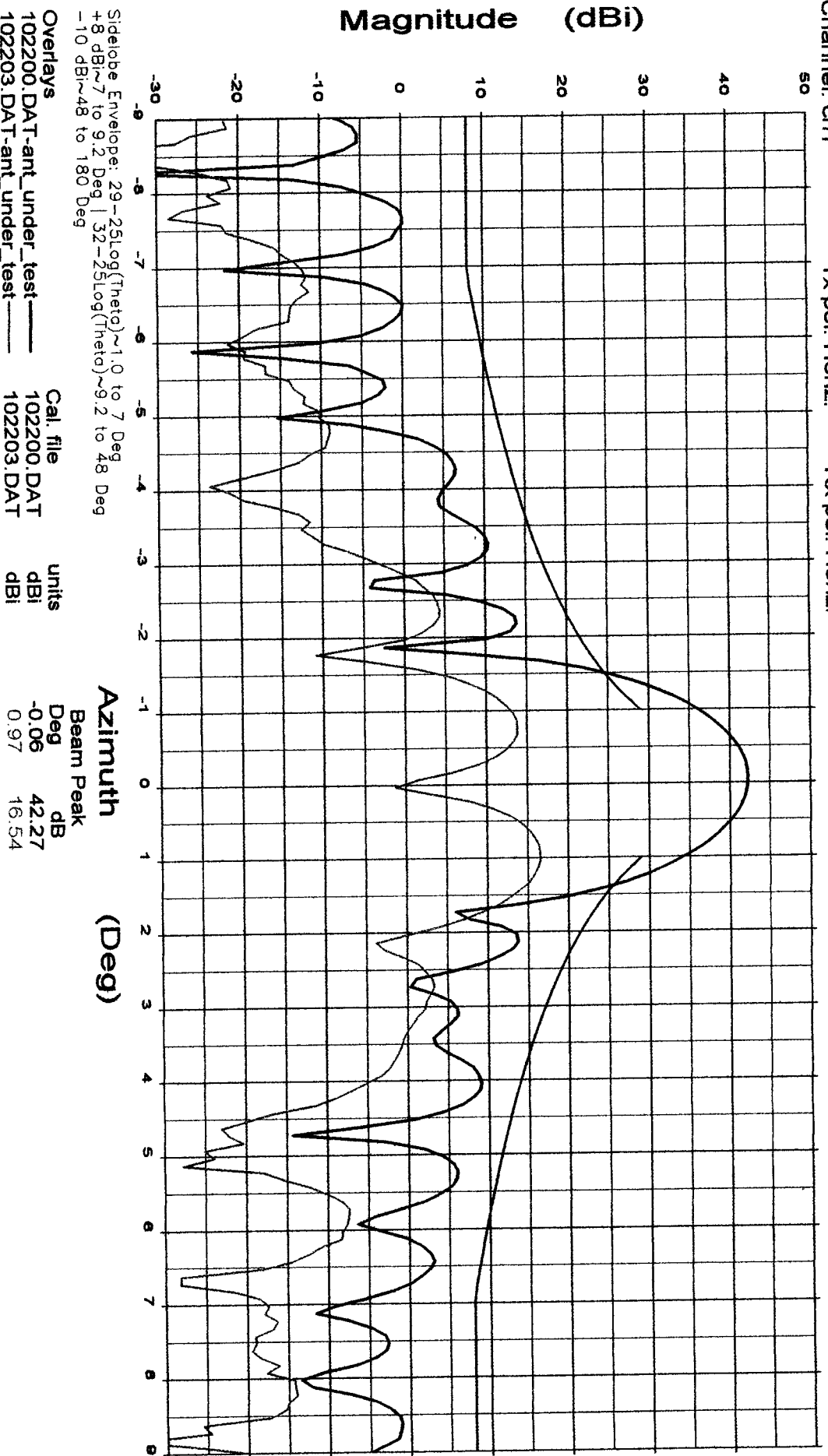
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.000 GHz

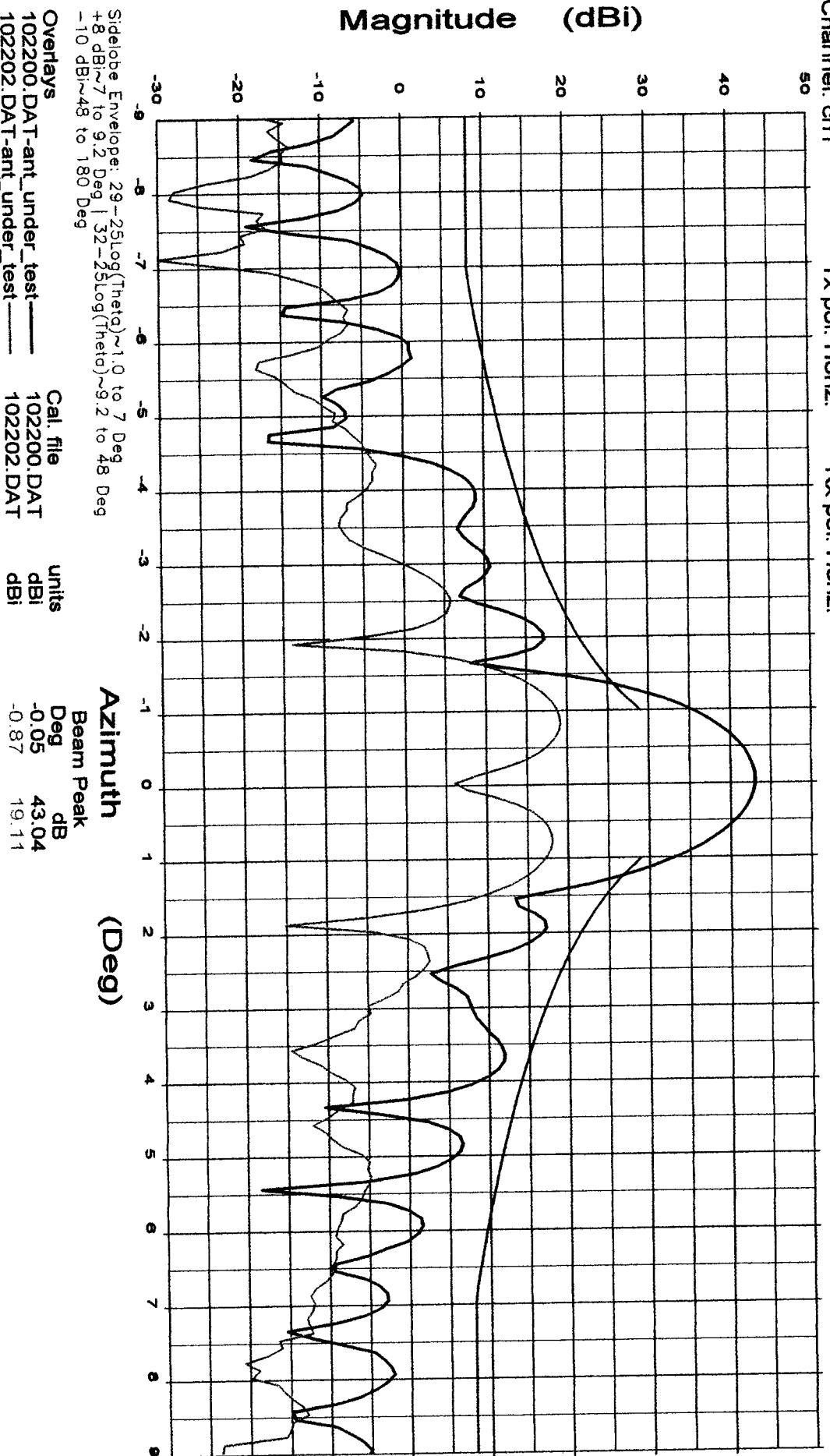
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.250 GHz

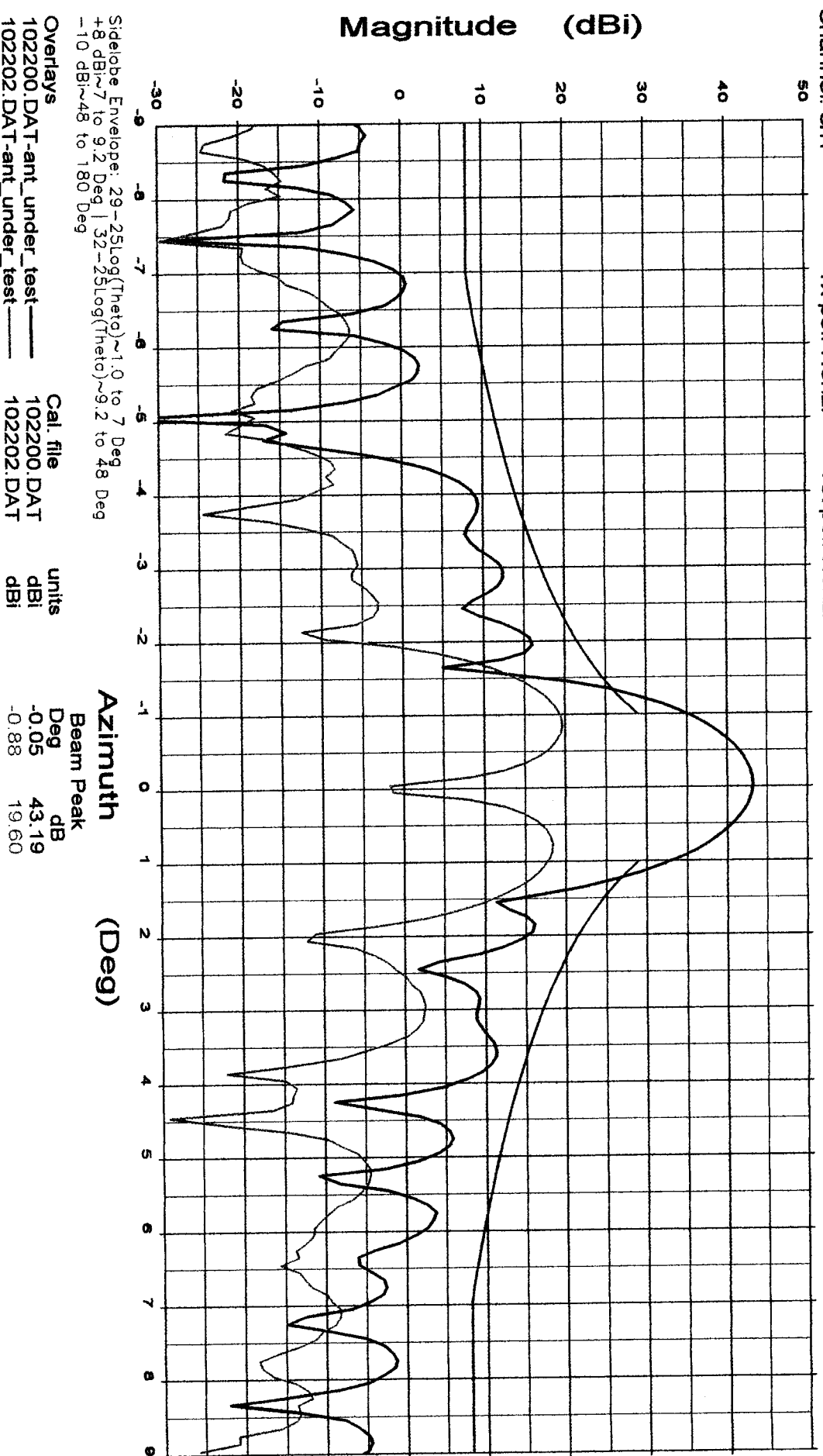
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.500 GHz

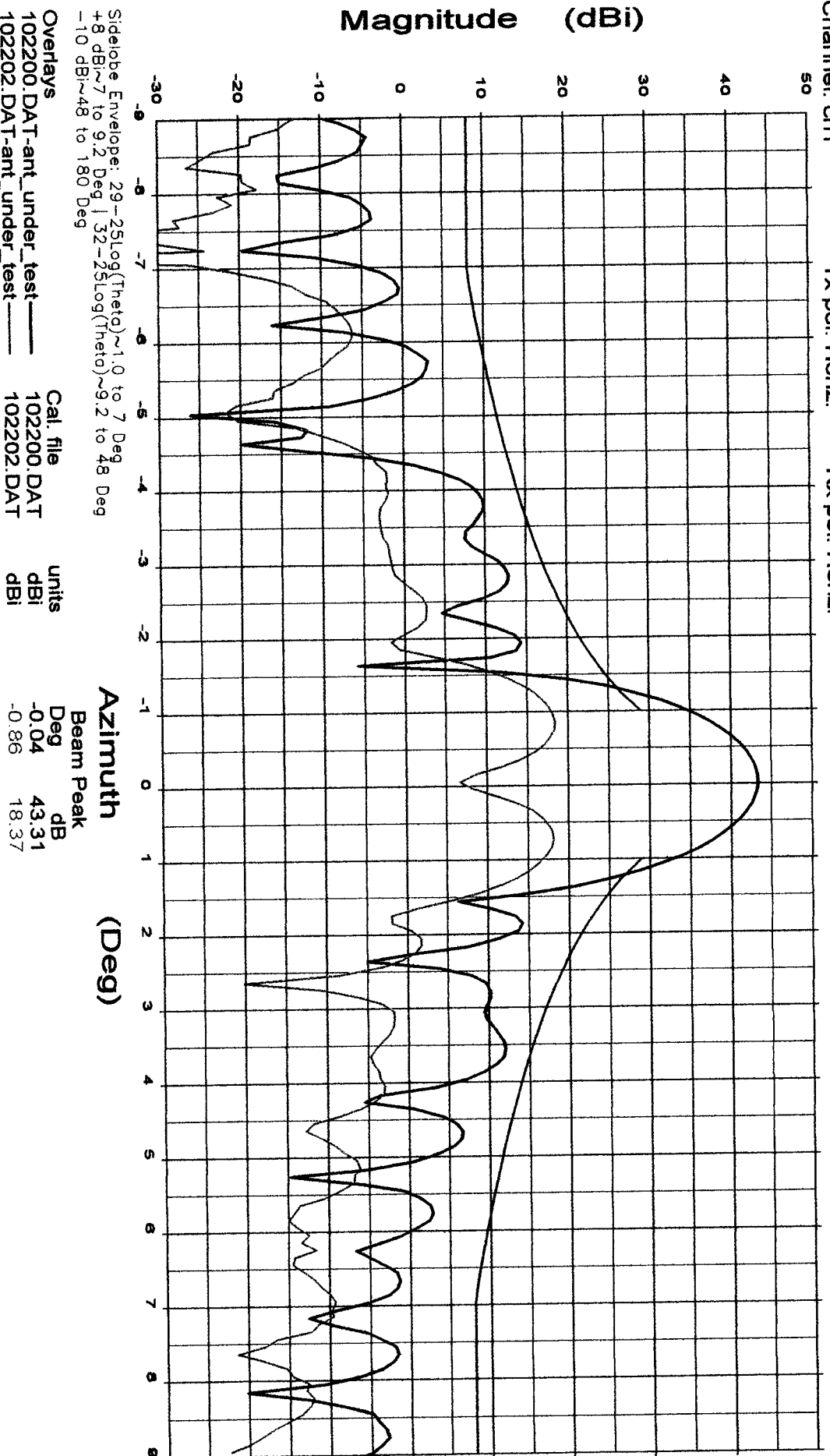
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 10.950 GHz

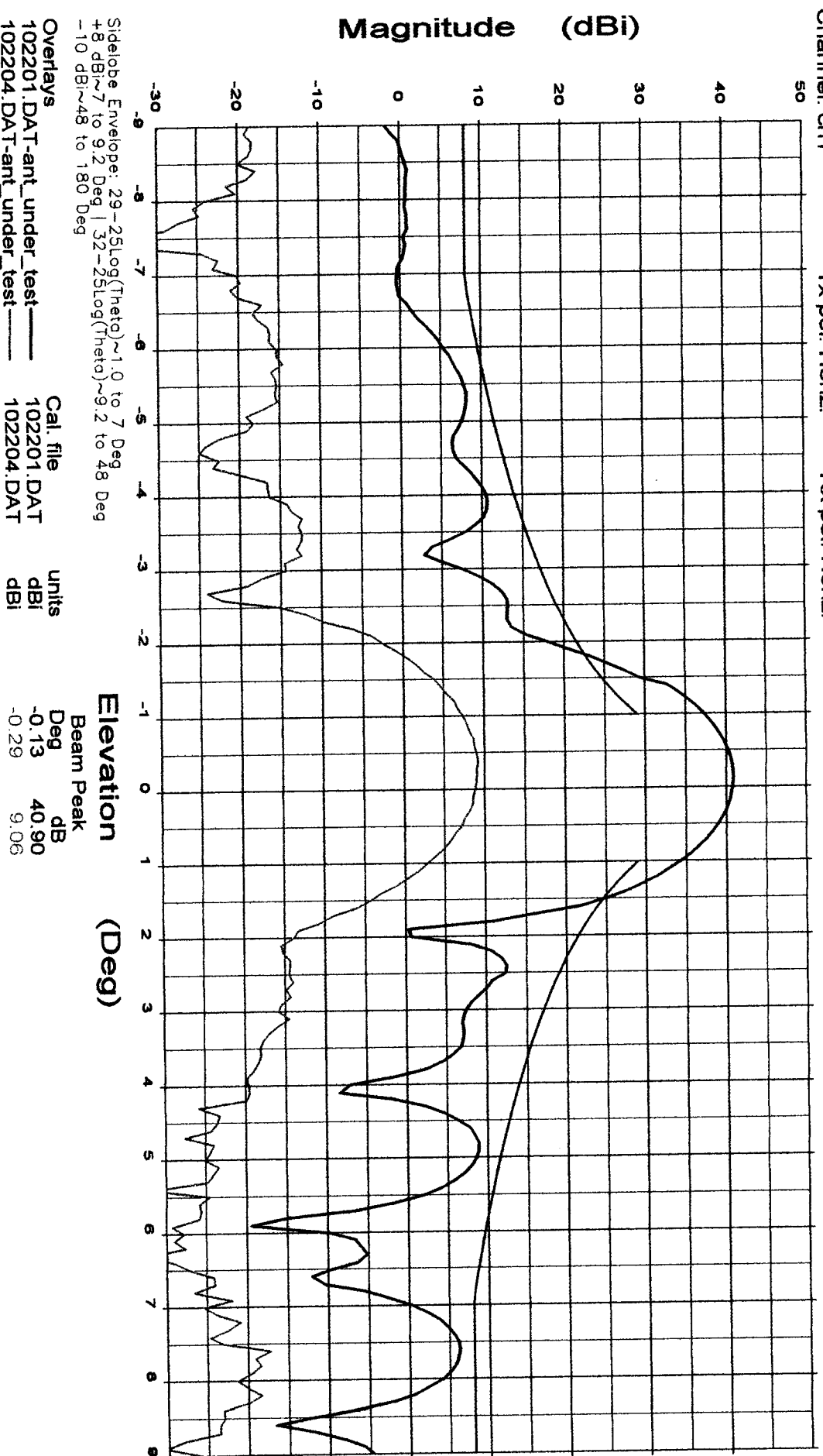
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 11.950 GHz

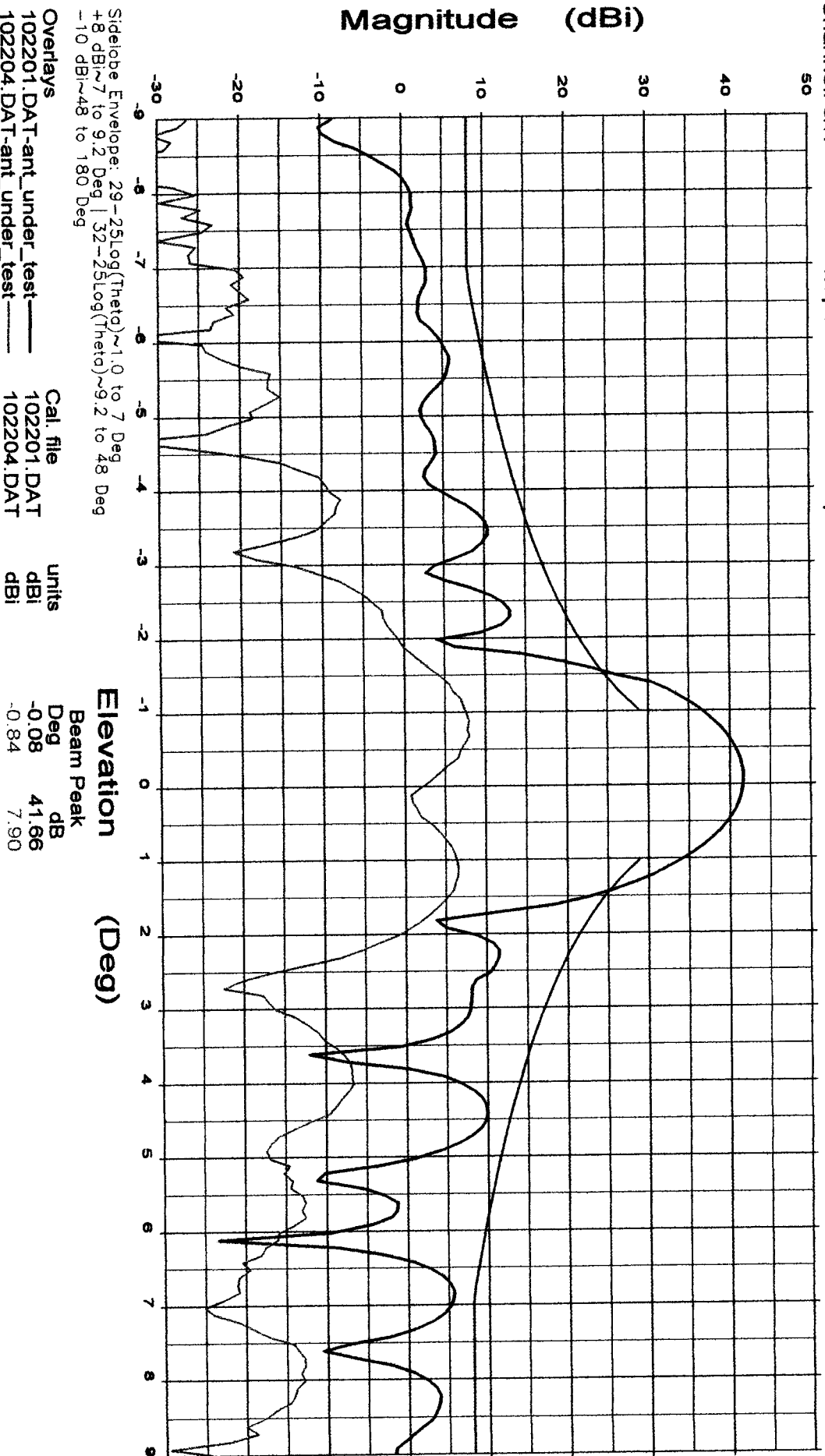
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 12.750 GHz

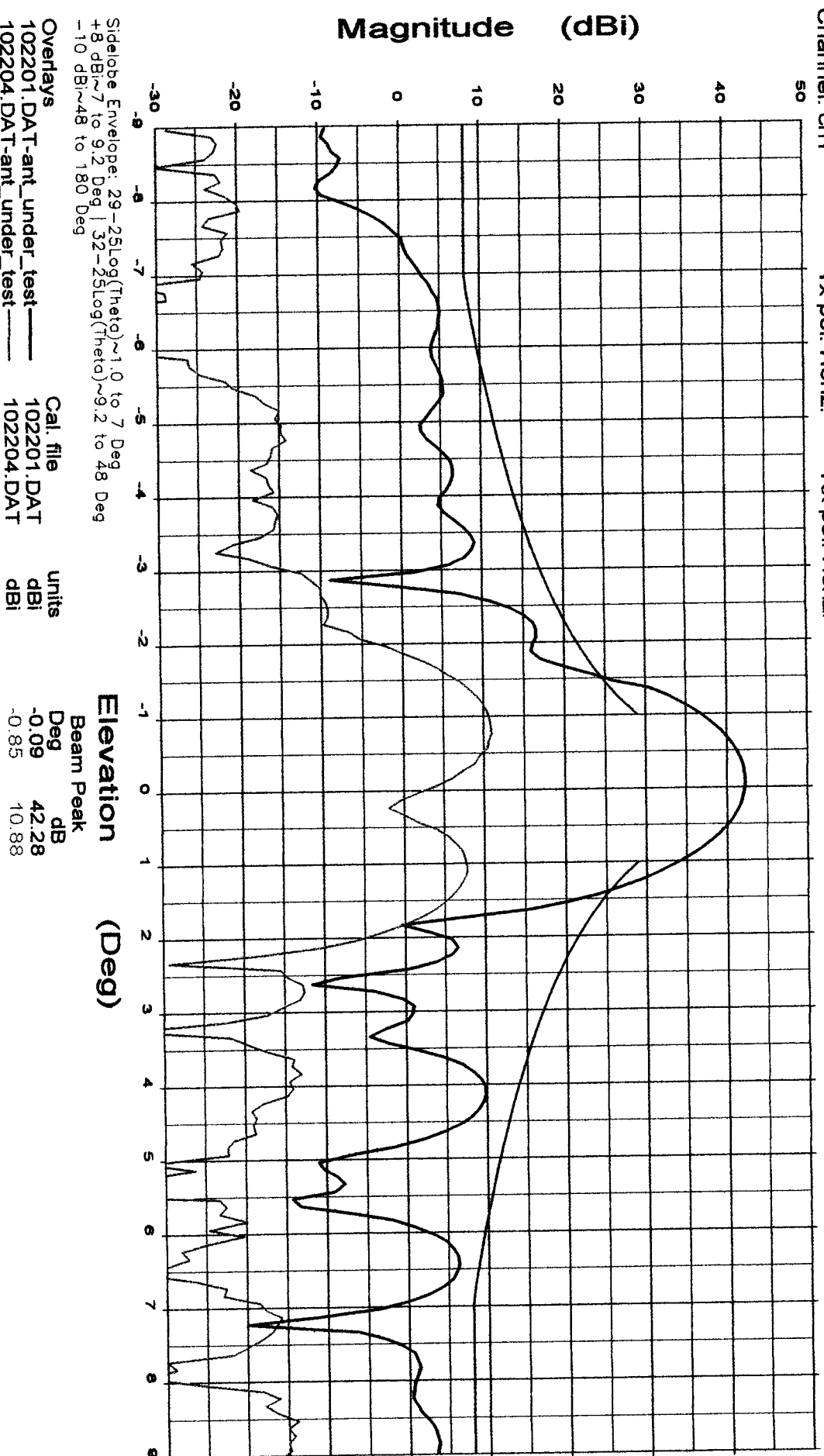
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.000 GHz

Operator: D. Lutz

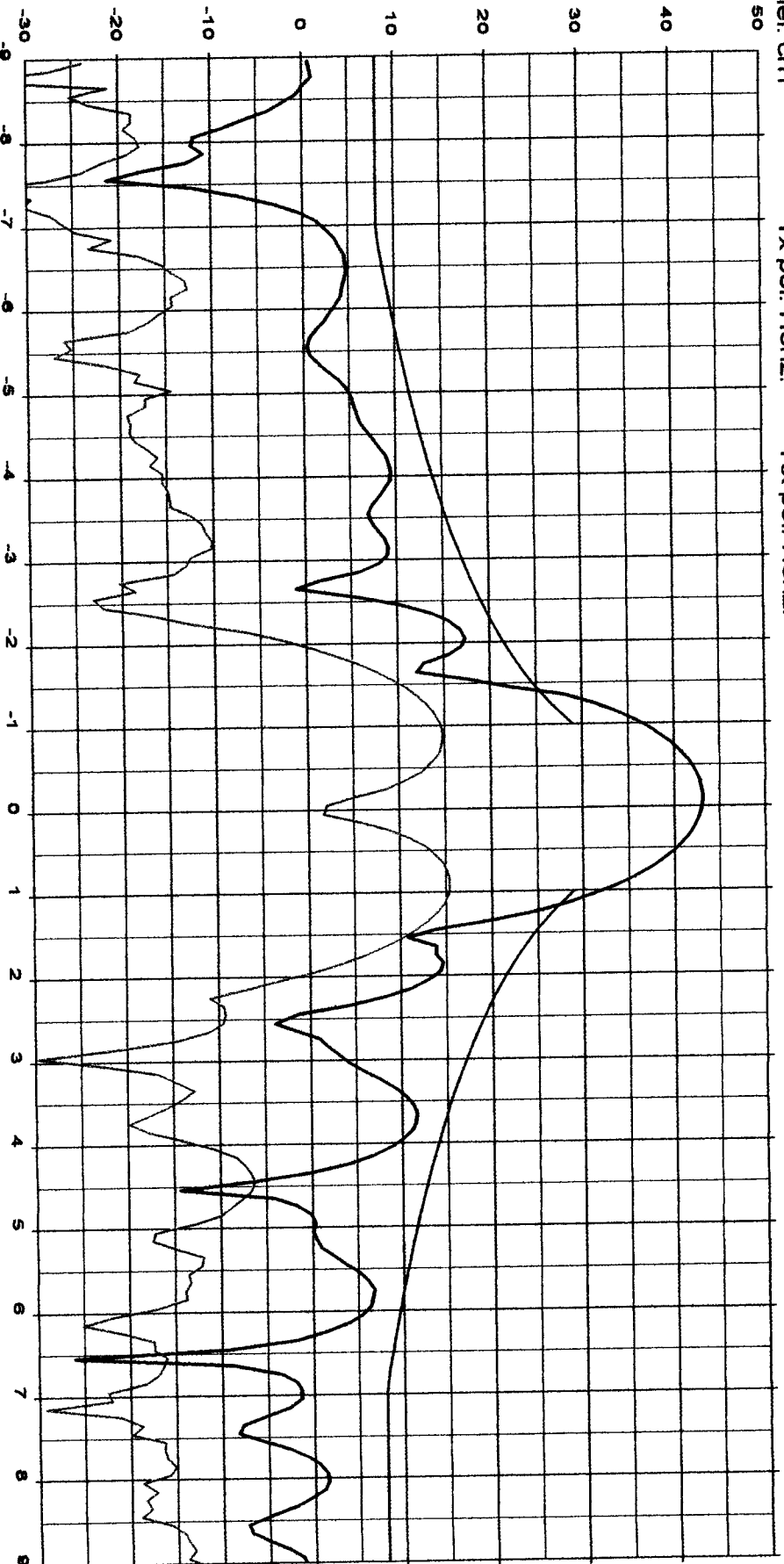
Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.

Magnitude (dBi)



Sidelobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg
+8 dBi~7 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg
-10 dBi~48 to 180 Deg

Overlays

102201.DAT-ant_under_test—

Cal. file
102201.DAT

units
dBi

Elevation (Deg)

Beam Peak
Deg dB
-0.11 43.11
0.91 15.44

File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.250 GHz

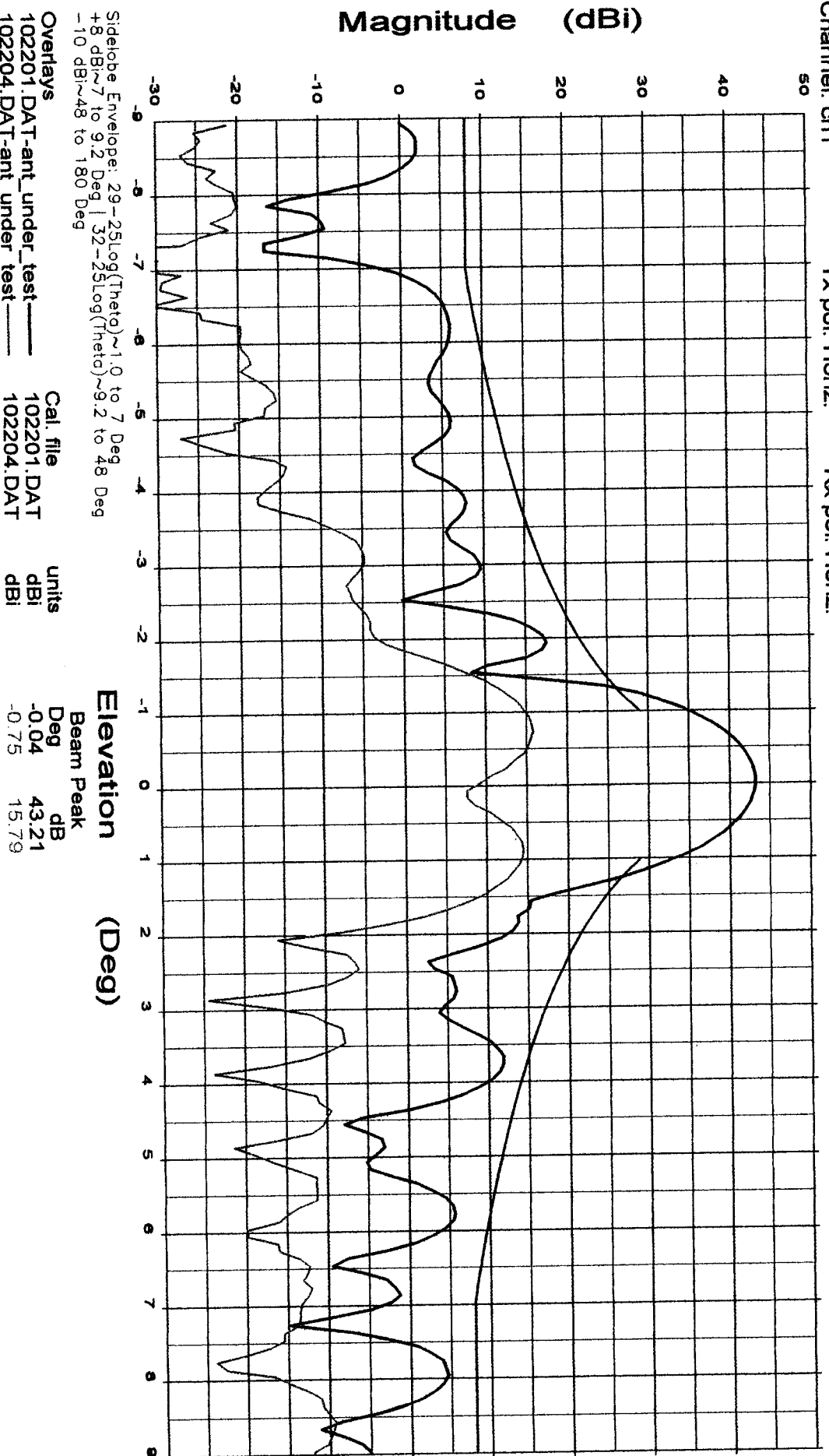
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.500 GHz

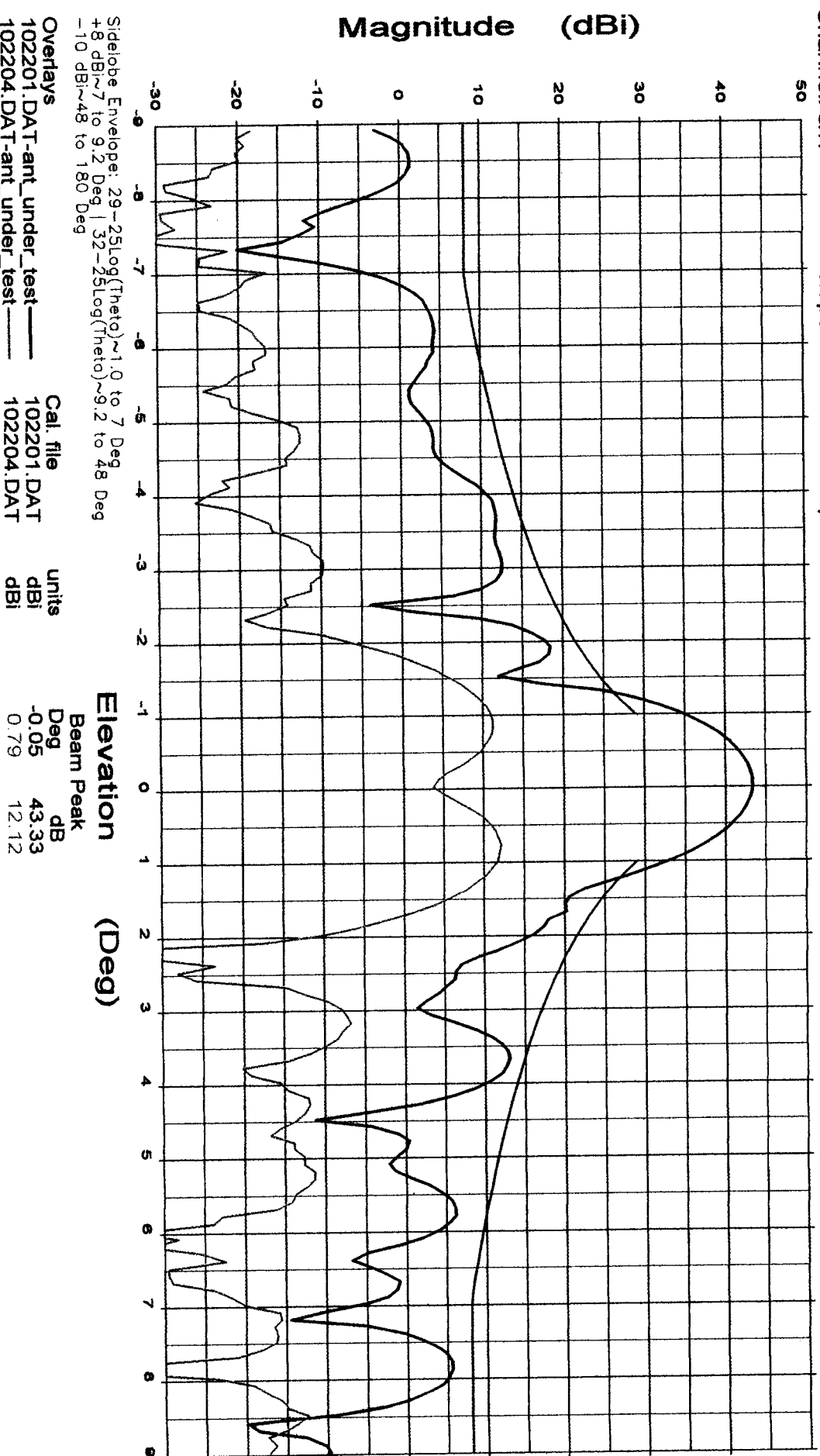
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 10.950 GHz

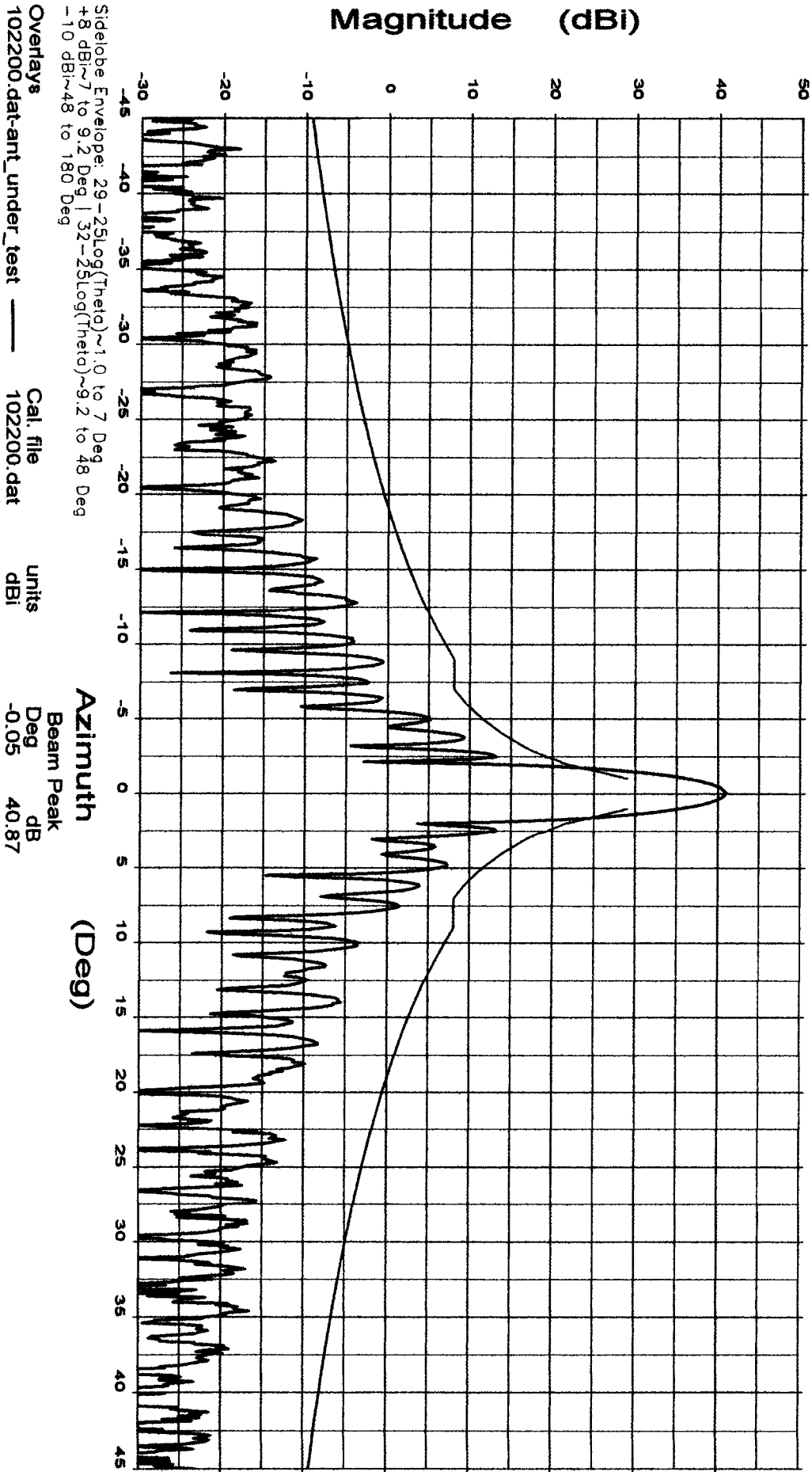
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 11.950 GHz

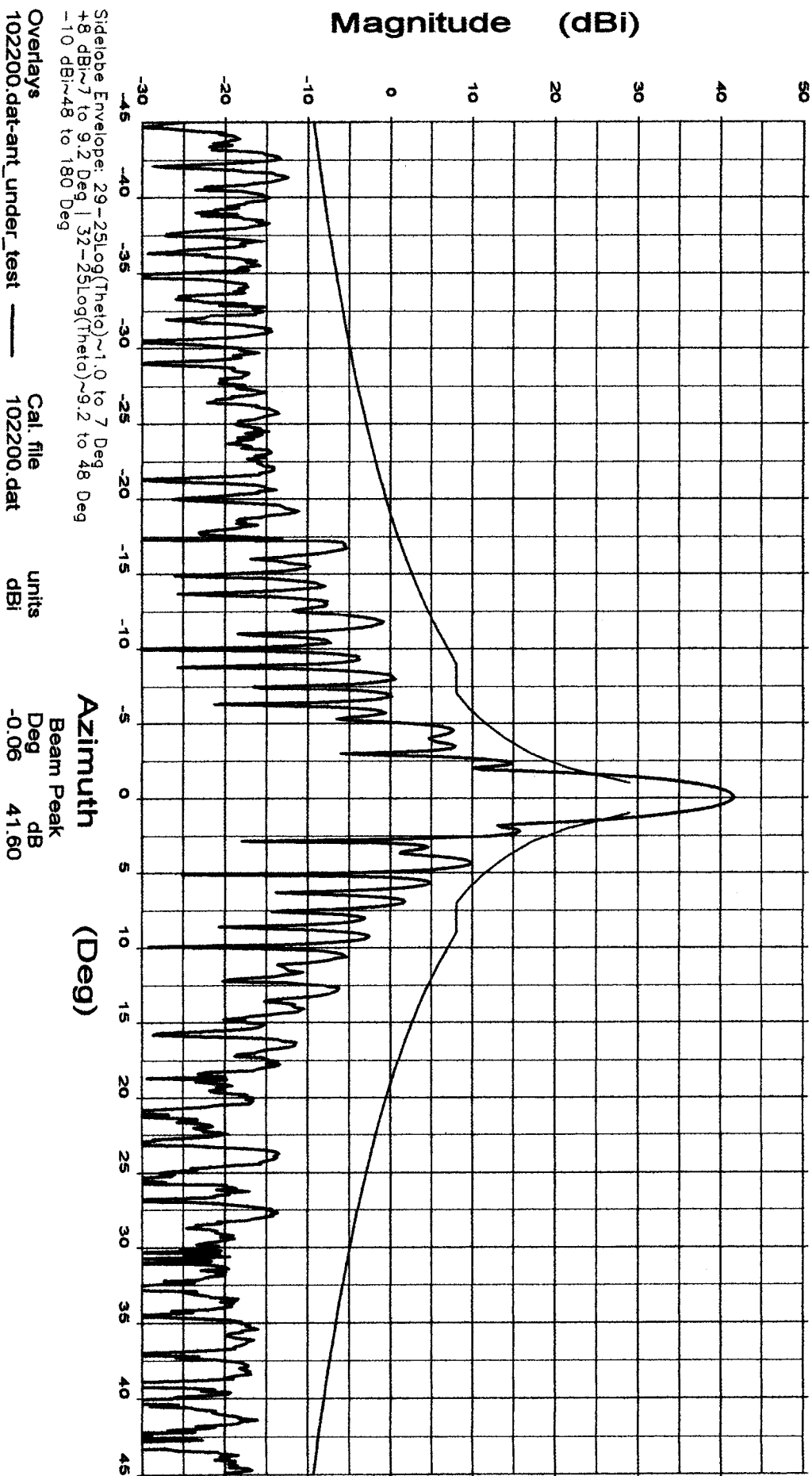
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

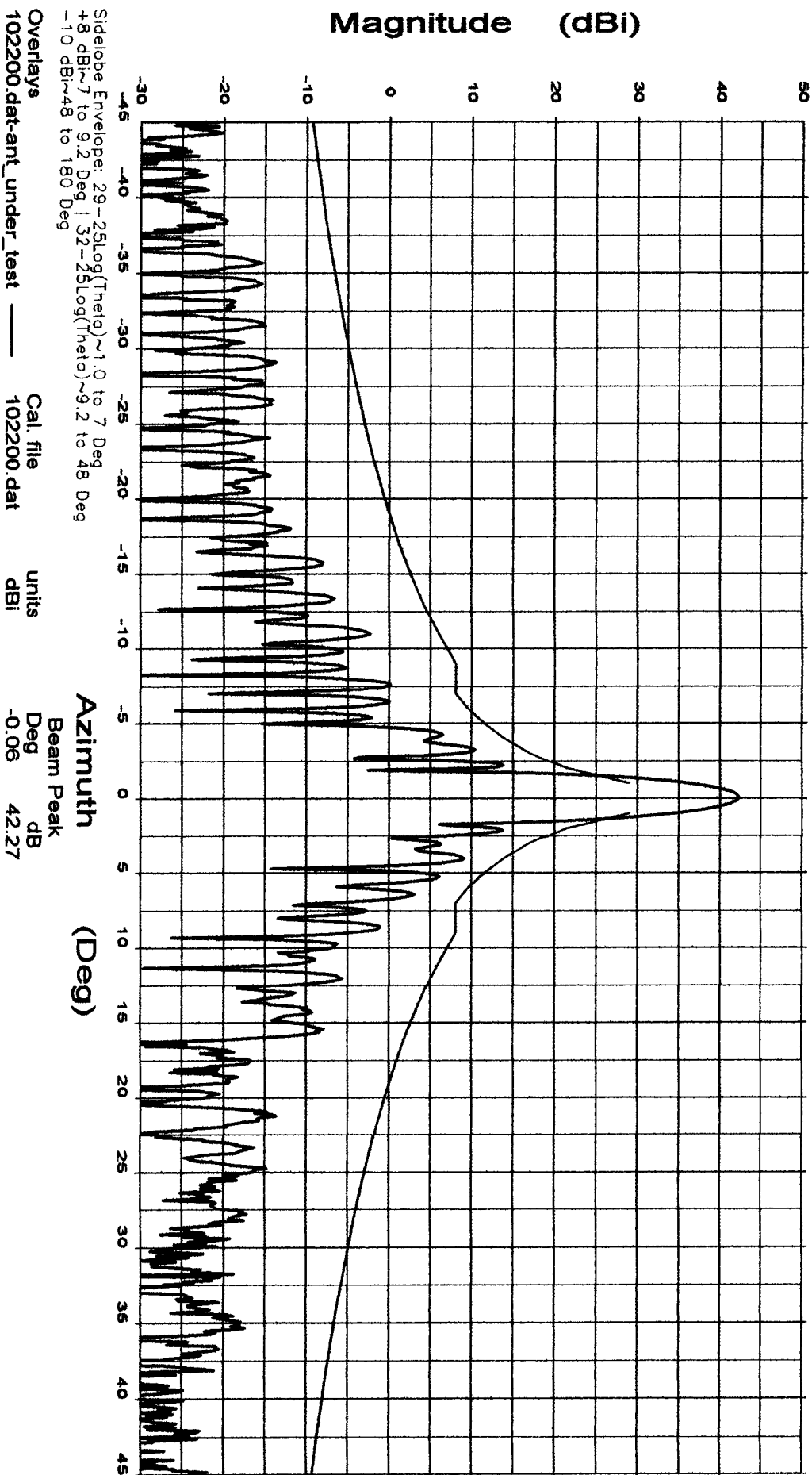
1.2M .8 f/d Ku-Band Antenna System

Frequency: 12.200 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.000 GHz

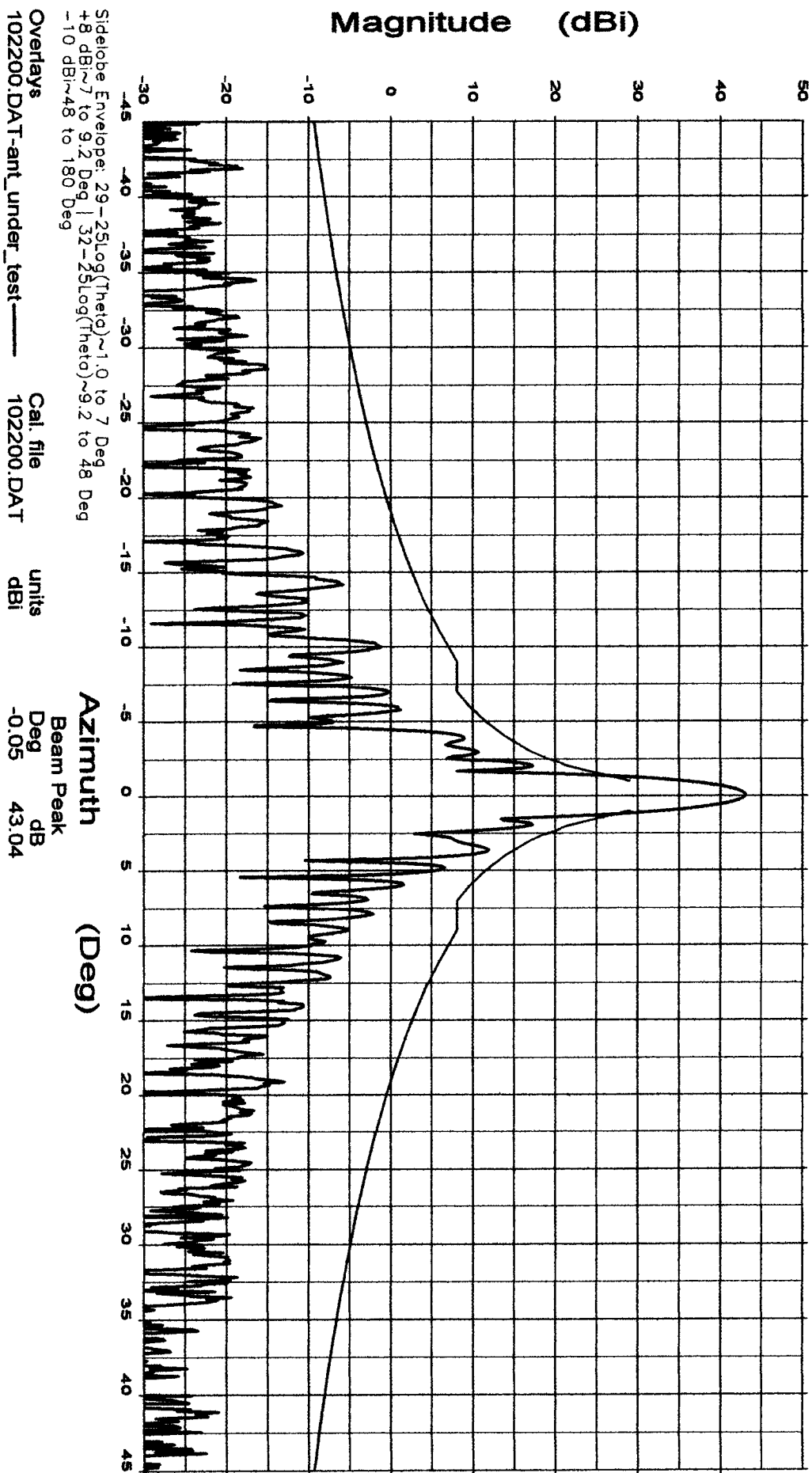
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.250 GHz

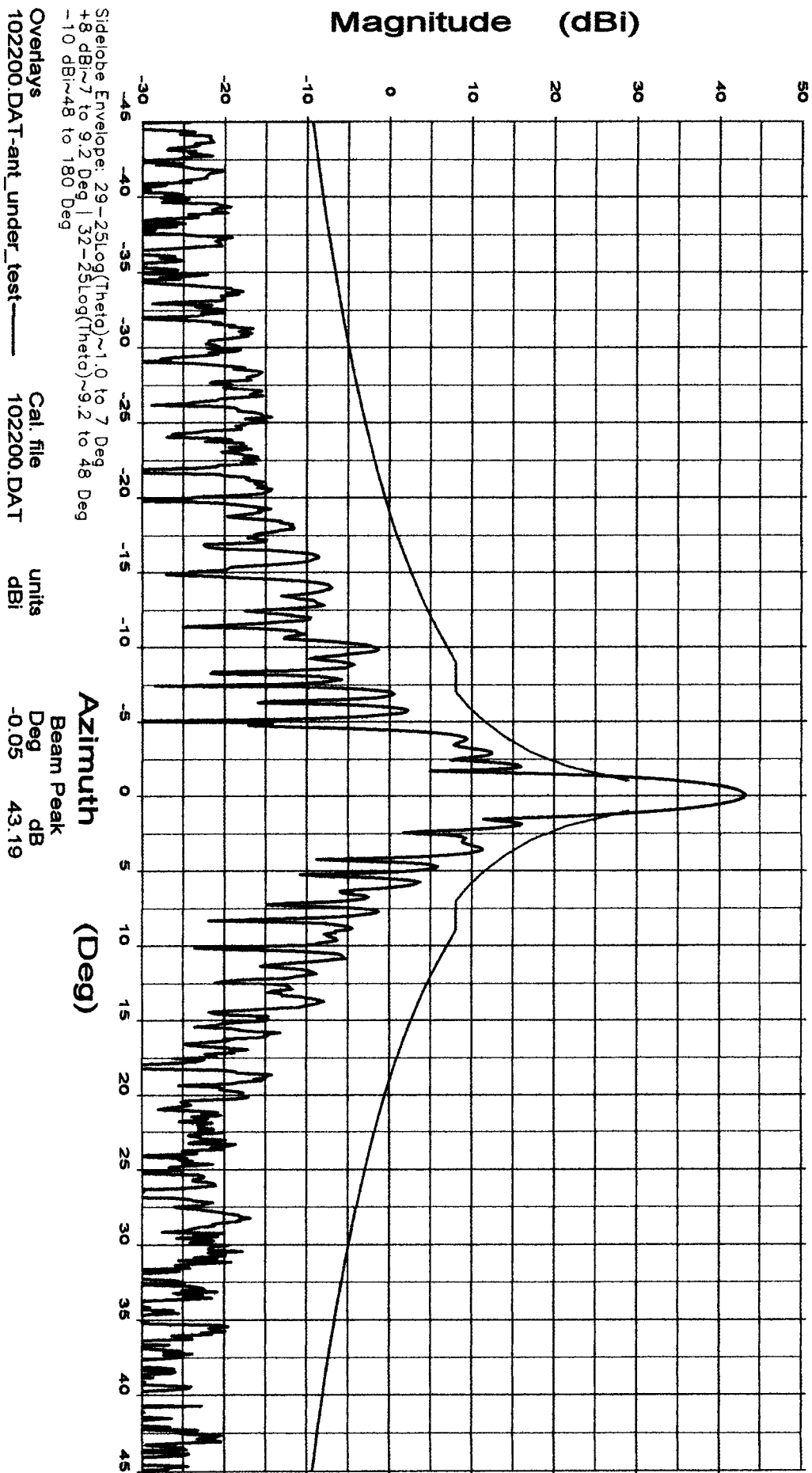
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.500 GHz

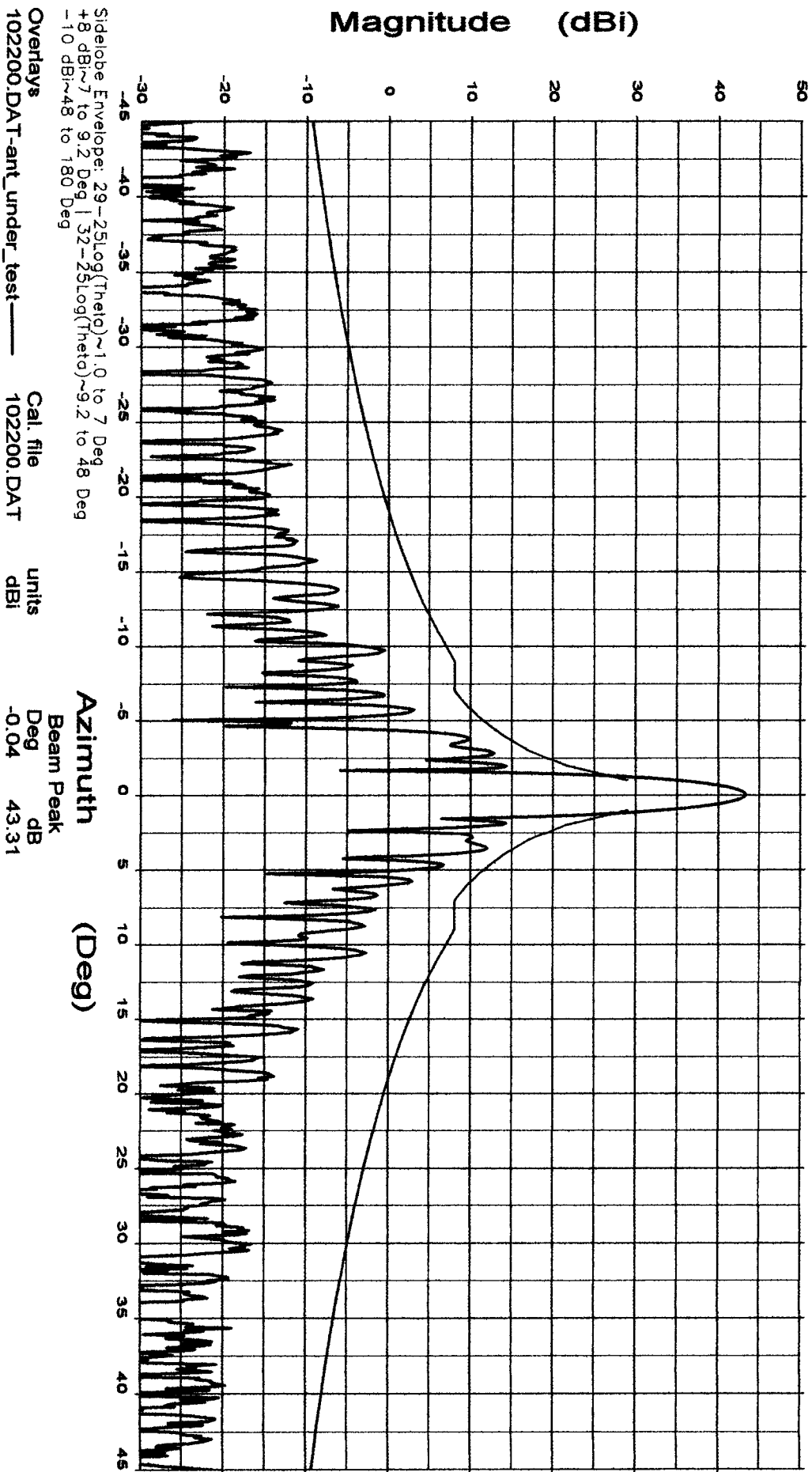
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 10.950 GHz

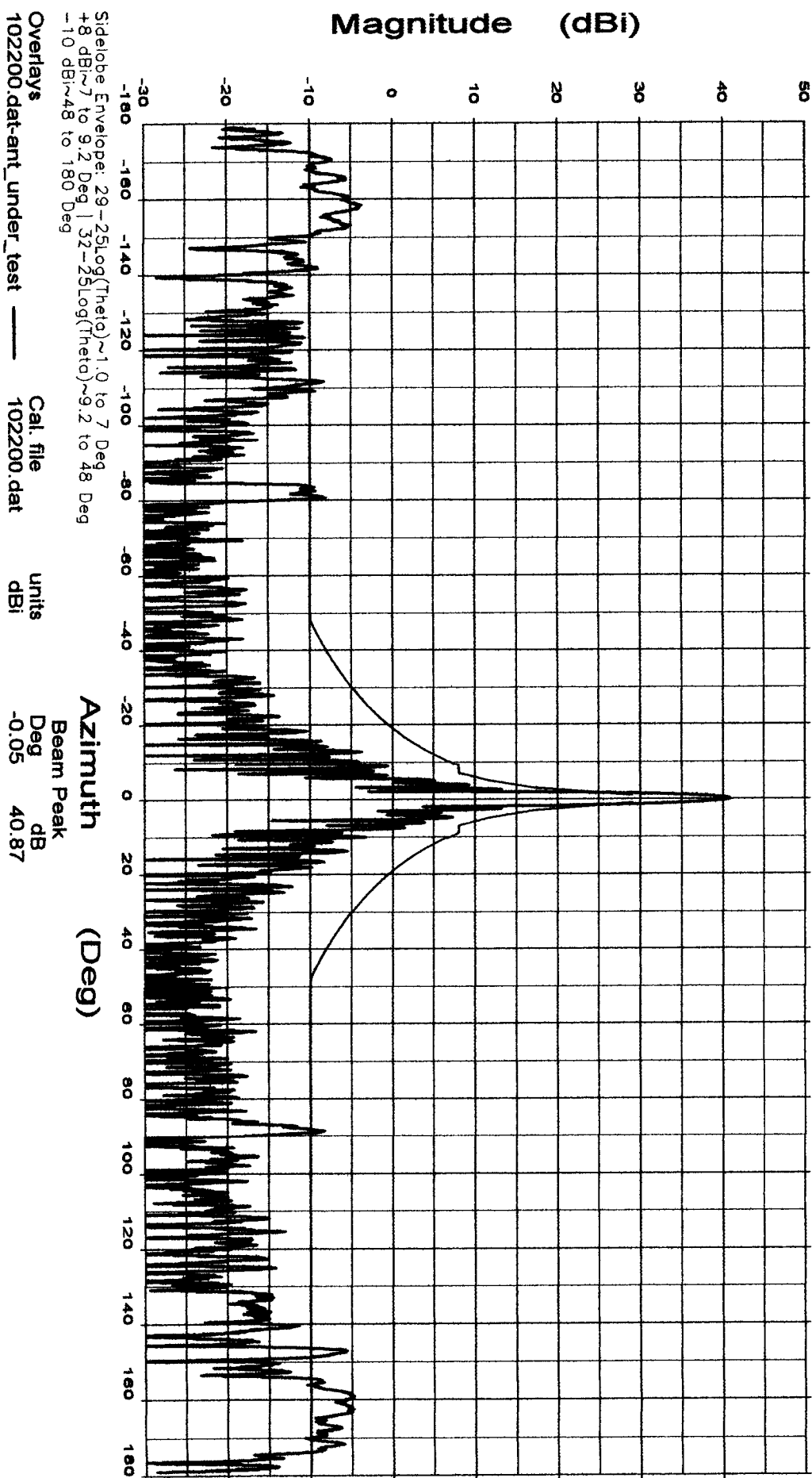
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 11.950 GHz

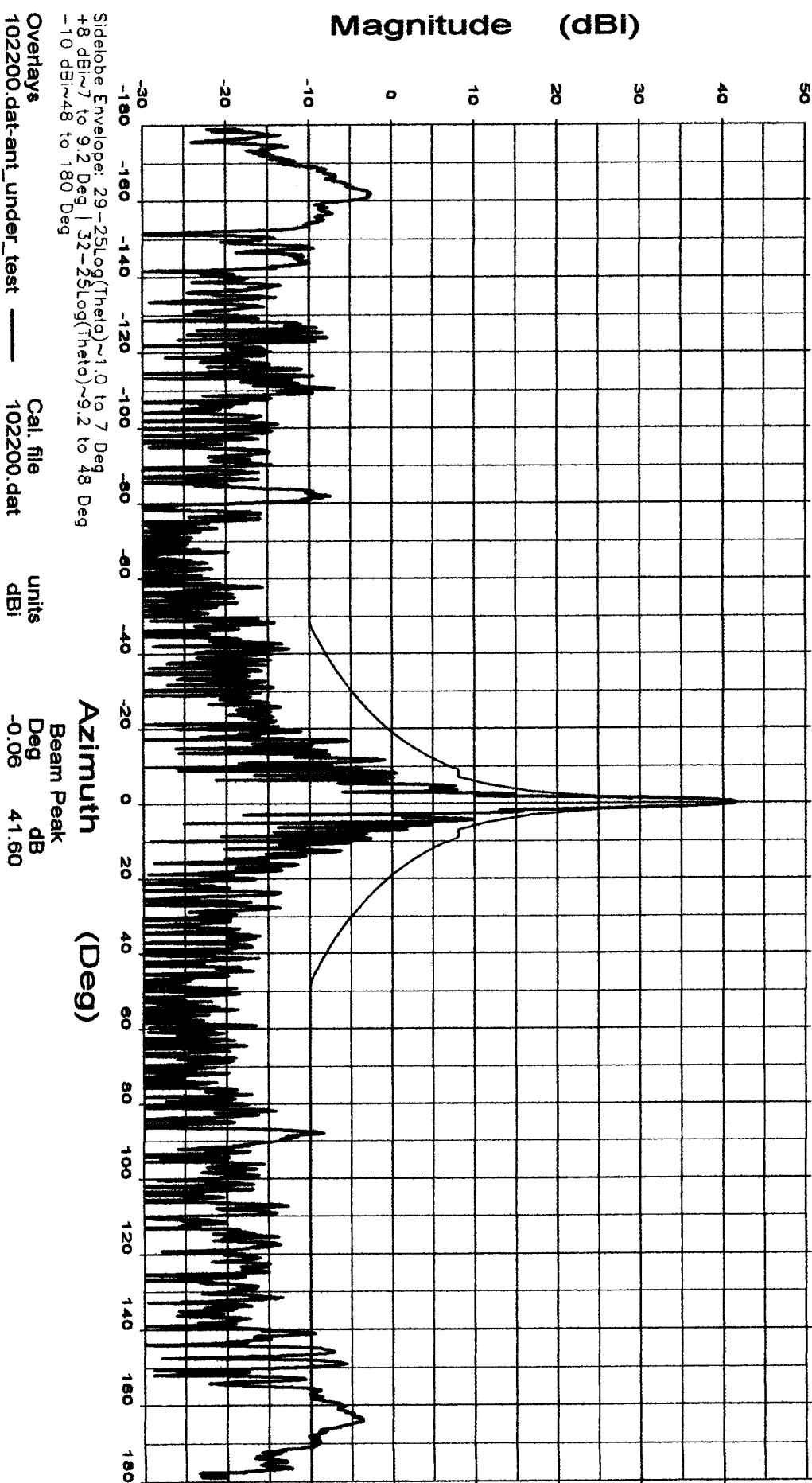
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

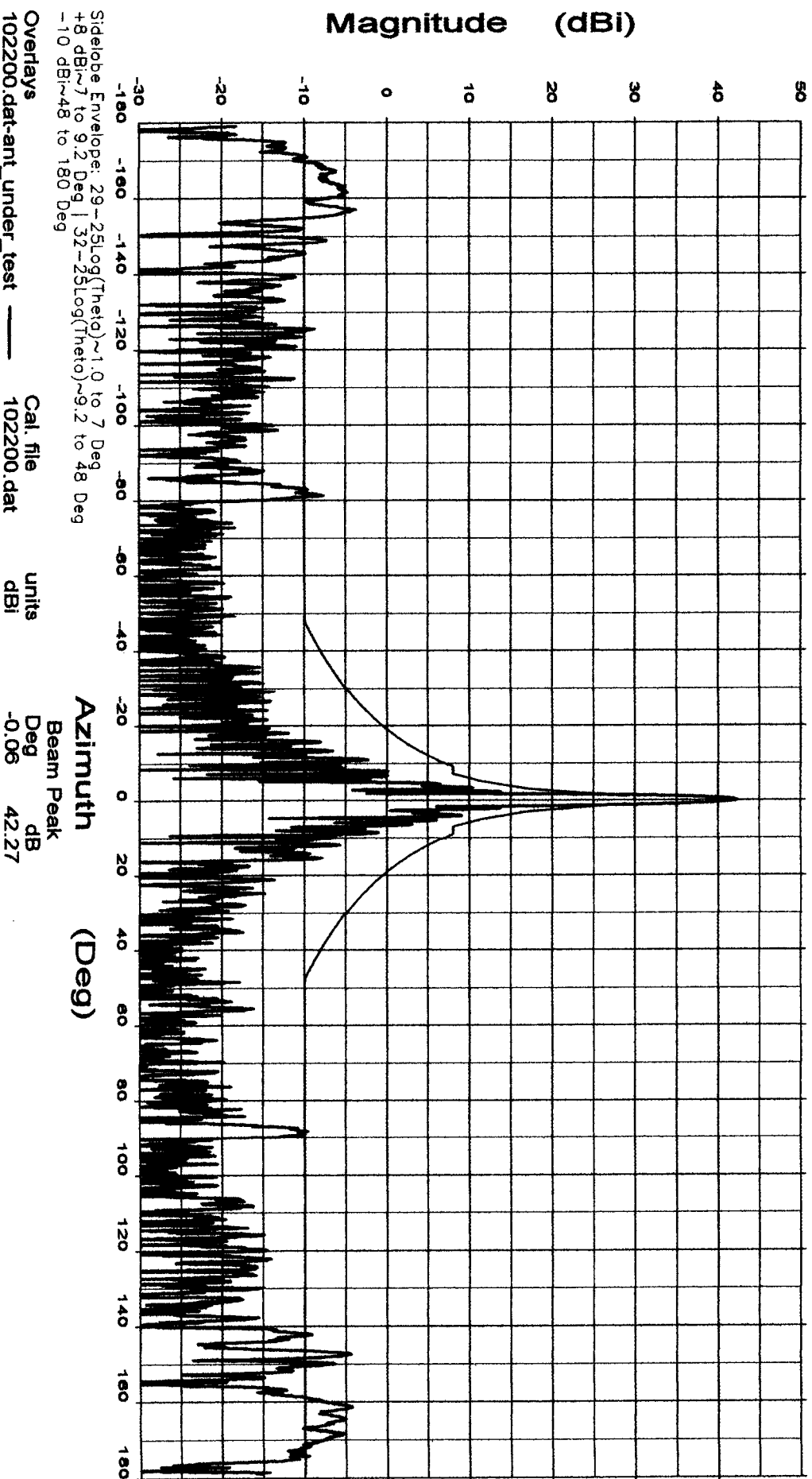
1.2M .8 f/d Ku-Band Antenna System

Frequency: 12.200 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.000 GHz

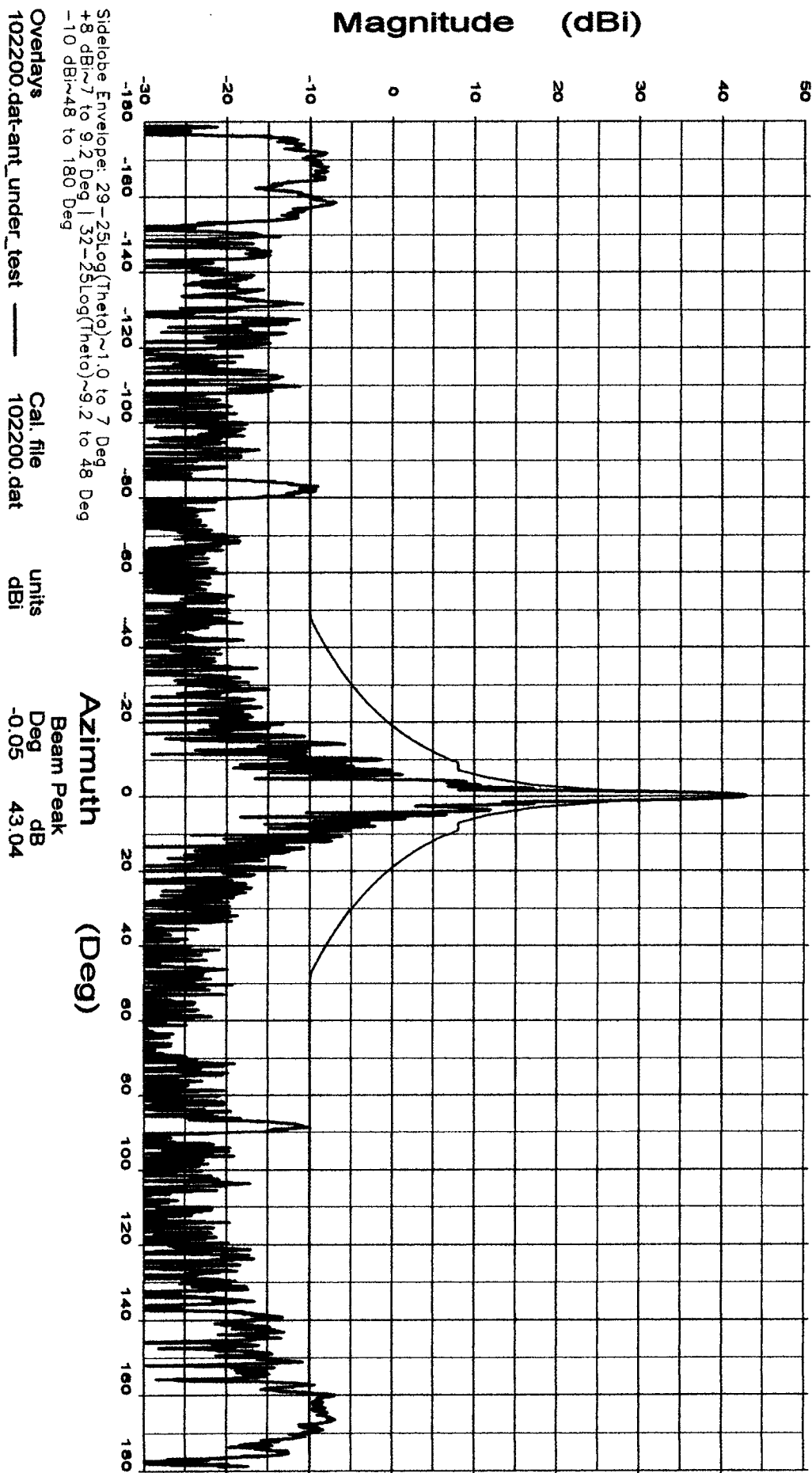
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.250 GHz

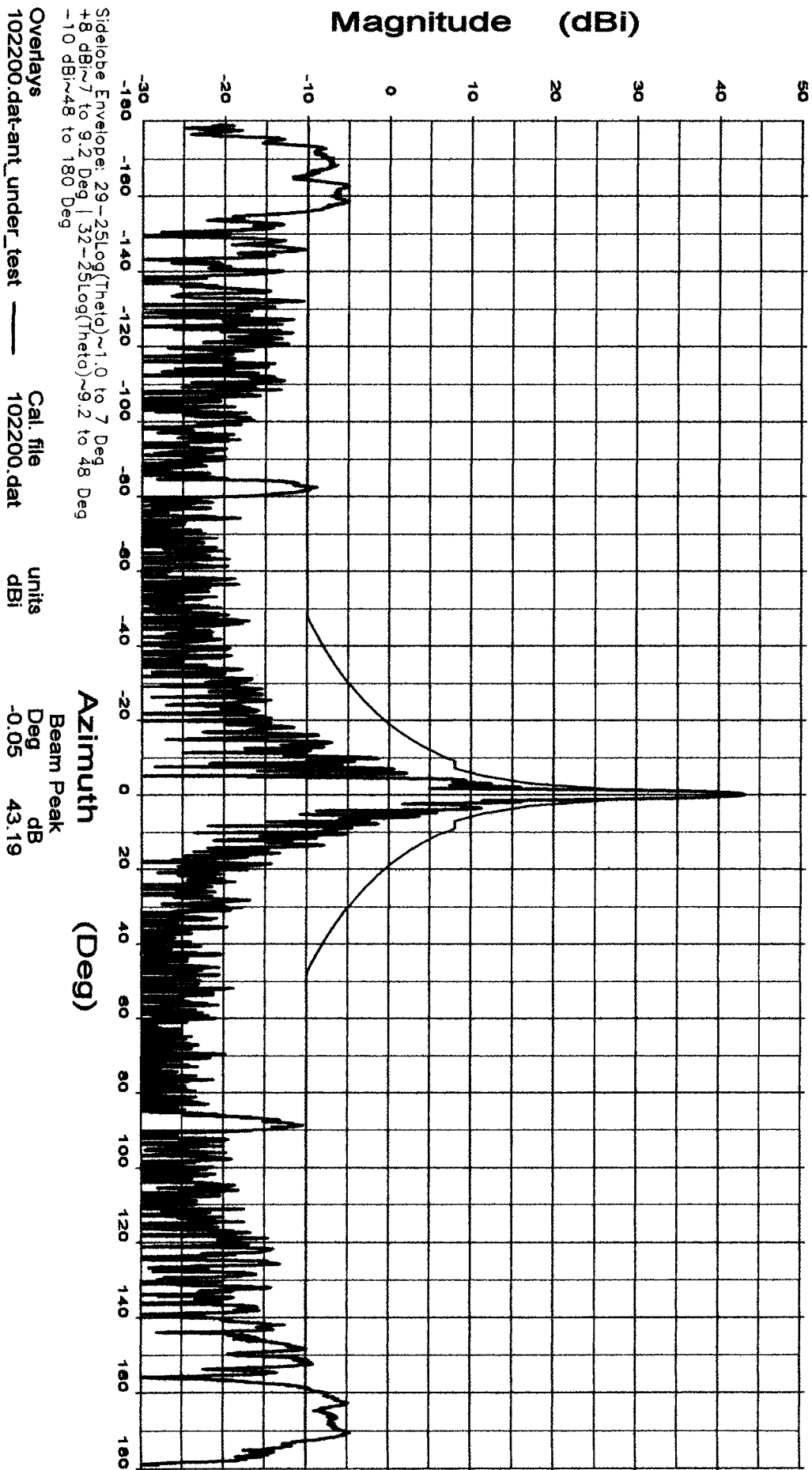
Operator: D. Lutz

Ser. No.

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



File: See Legend

1.2M .8 f/d Ku-Band Antenna System

Frequency : 14.500 GHz

Operator: D. Lutz
Ser. No.
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.

