

GENERAL DYNAMICS

C4 Systems

Antenna Test Report

Test No. 1427

Typical Performance of Prodelin 1.8Meter C-Band Rx-Only
Linear Polarization Antenna System. Series 1183



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GENERAL DYNAMICS
C4 Systems



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Newton, NC 28658
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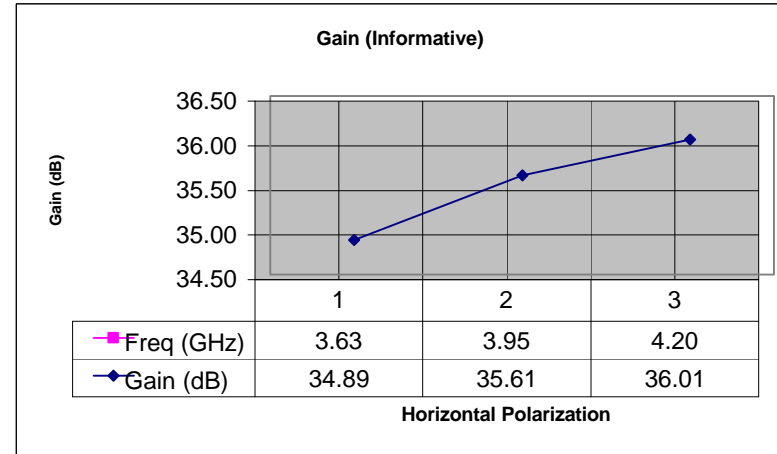
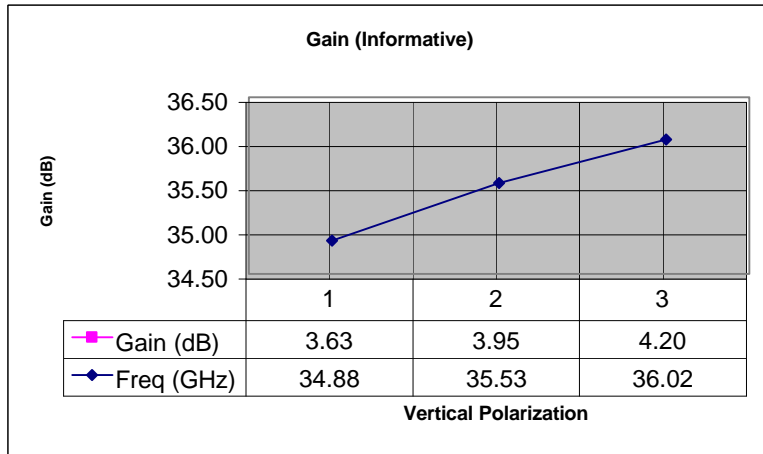


Section I



Project: 1.8M .6 f/d C-Band Linear Rx-Only Antenna System
Test No.1427

Gain Analysis





Section II



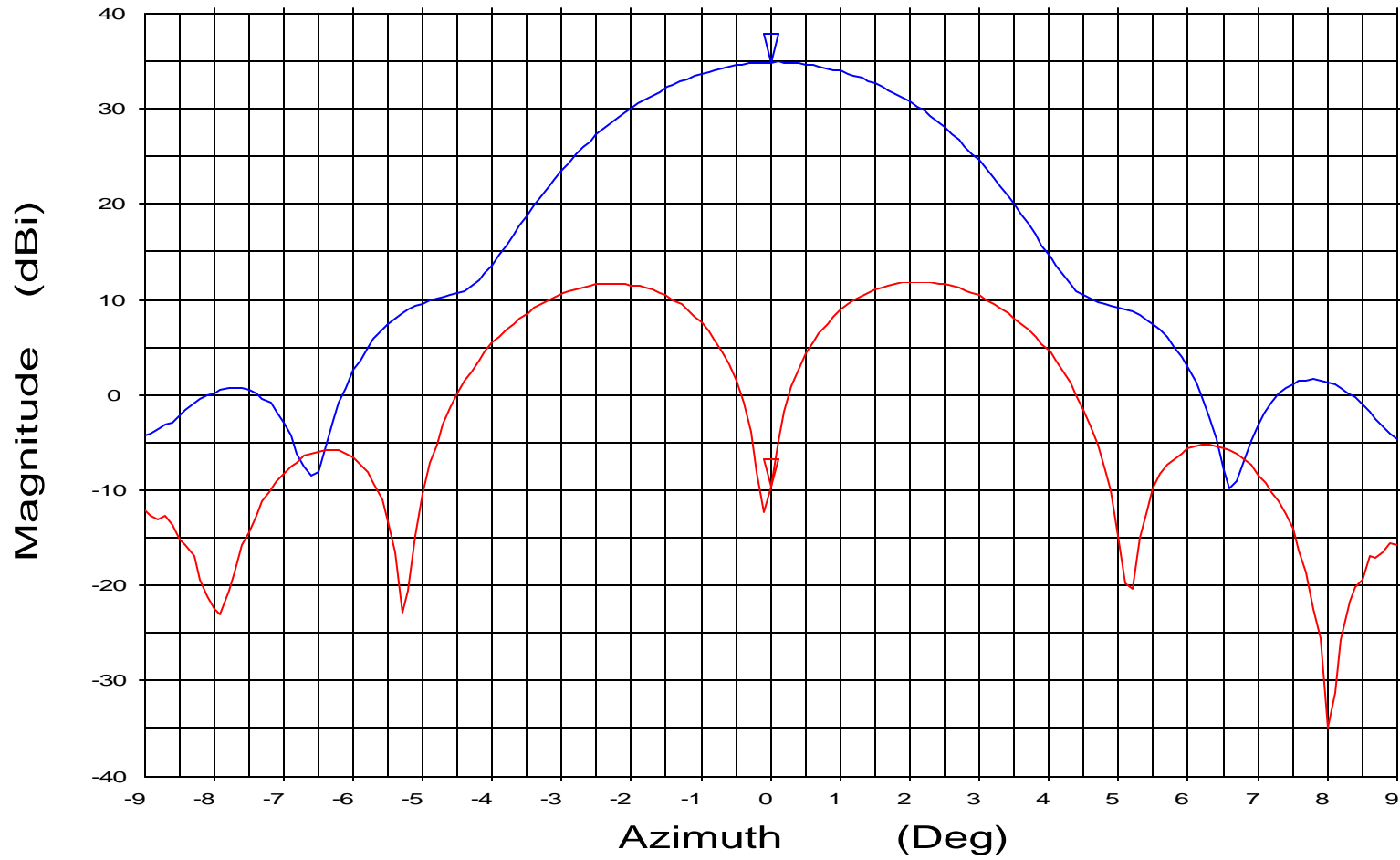
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Gain Analysis	
Position	Gain (dB)
0.000	34.883
0.000	-9.664

Overlays

- 142724.DAT-ant_under_test
- 142726.DAT-ant_under_test

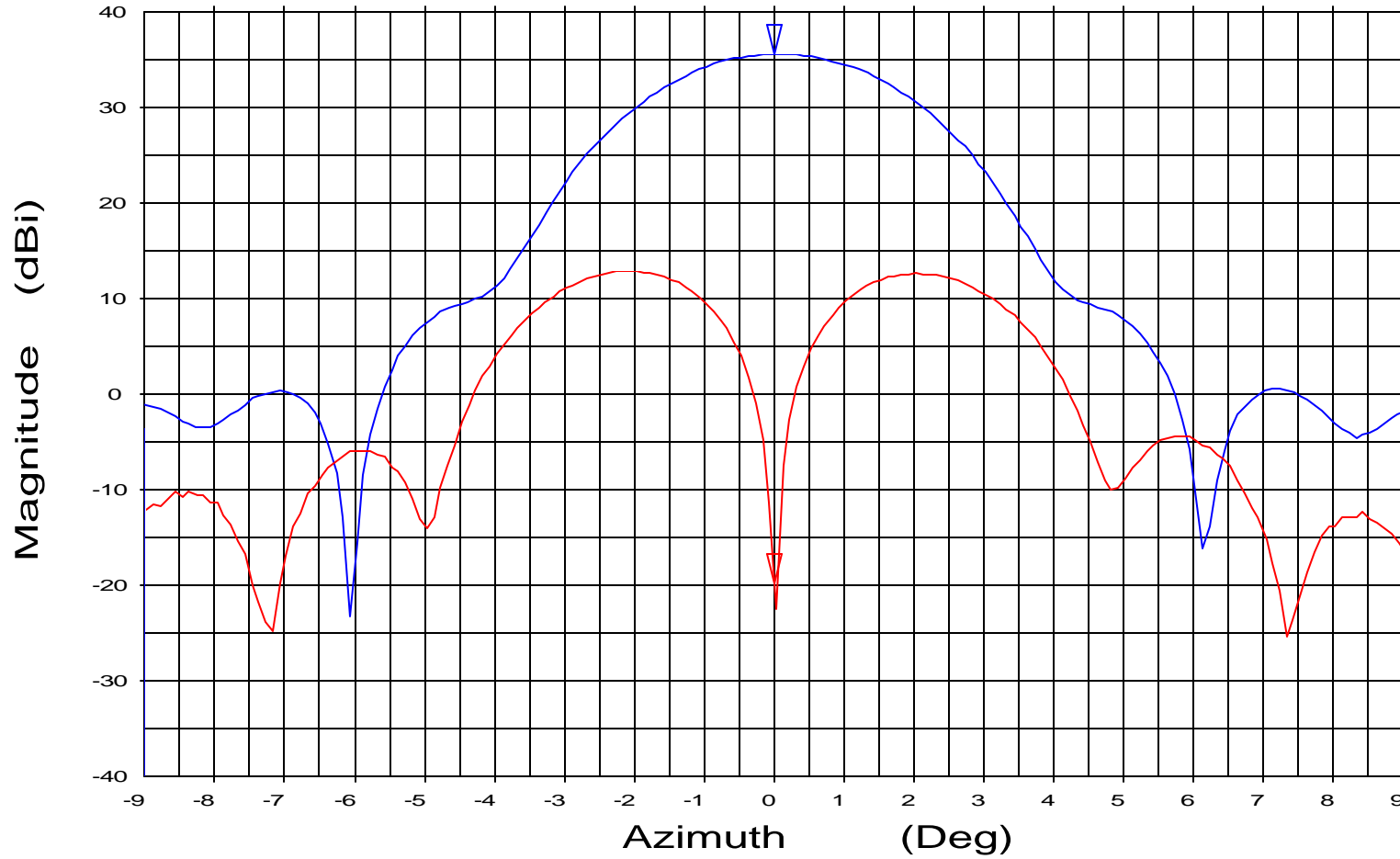
1.8M .6f/d C-Band Rx- Only Antenna System

Frequency : 3.950 GHz

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

Tx pol: Vert.

Rx pol: Vert.



Gain Analysis	
Position	Gain (dB)
0.000	35.532
0.000	-19.740

Overlays
142724.DAT-ant_under_test — blue line
142726.DAT-ant_under_test — red line

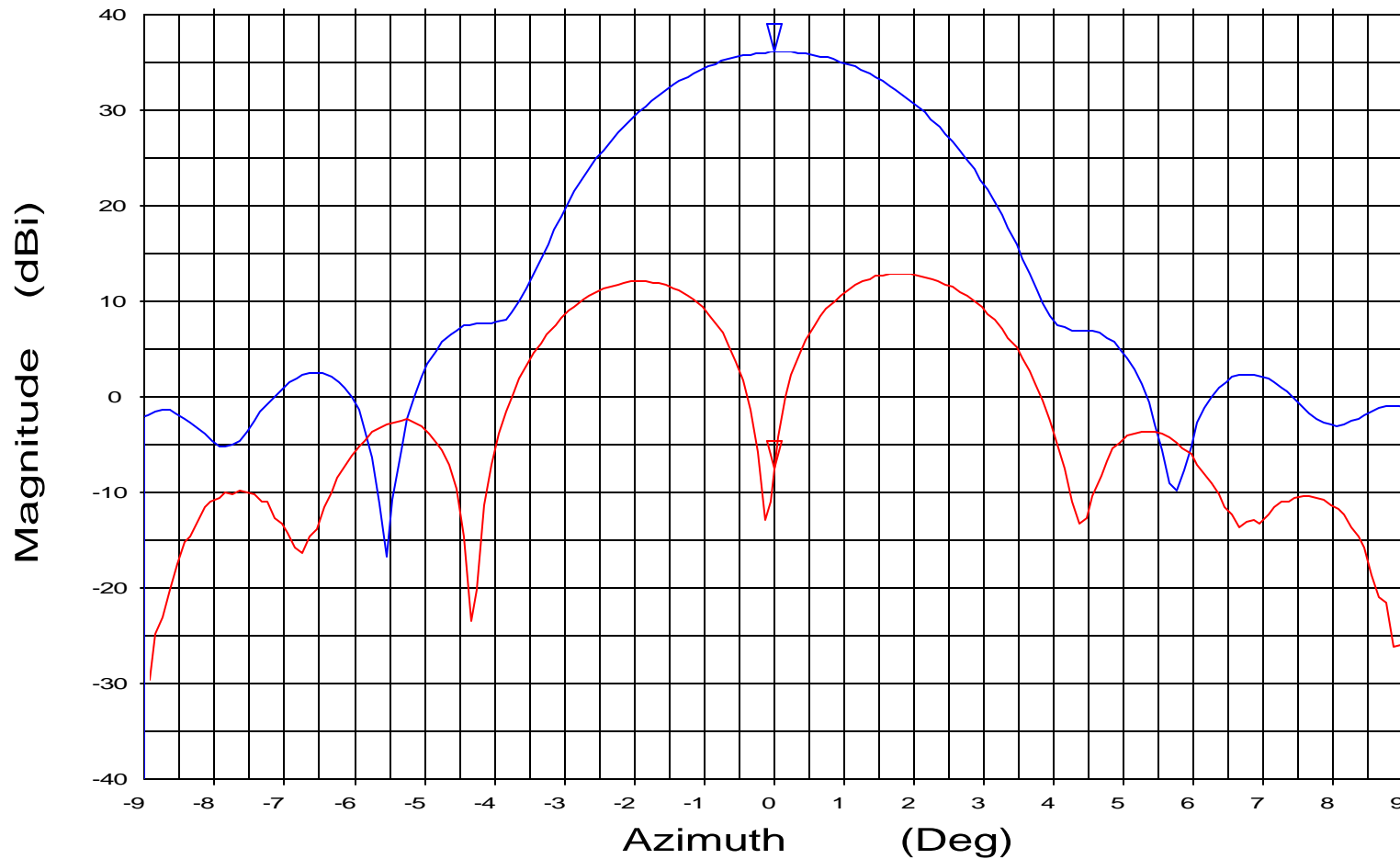
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Gain Analysis	
Position	Gain (dB)
0.000	36.025
0.000	-7.588

Overlays

- 142724.DAT-ant_under_test
- 142726.DAT-ant_under_test

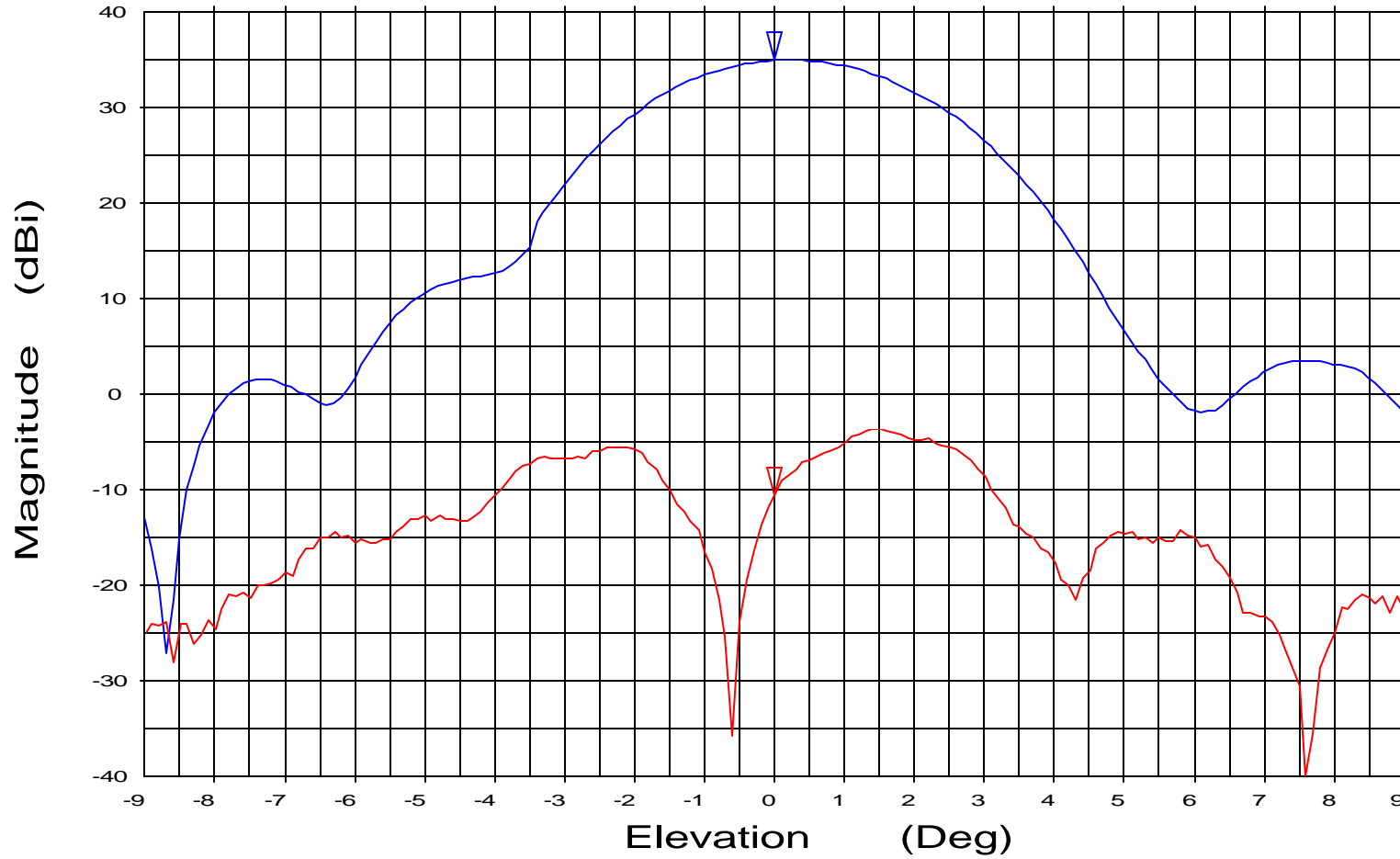
1.8M .6f/d C-Band Rx- Only Antenna System

Frequency : 3.625 GHz

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

Tx pol: Vert.

Rx pol: Vert.



Gain Analysis	
Position	Gain (dB)
0.000	34.859
0.000	-10.645

Overlays
142725.DAT-ant_under_test — blue line
142727.DAT-ant_under_test — red line

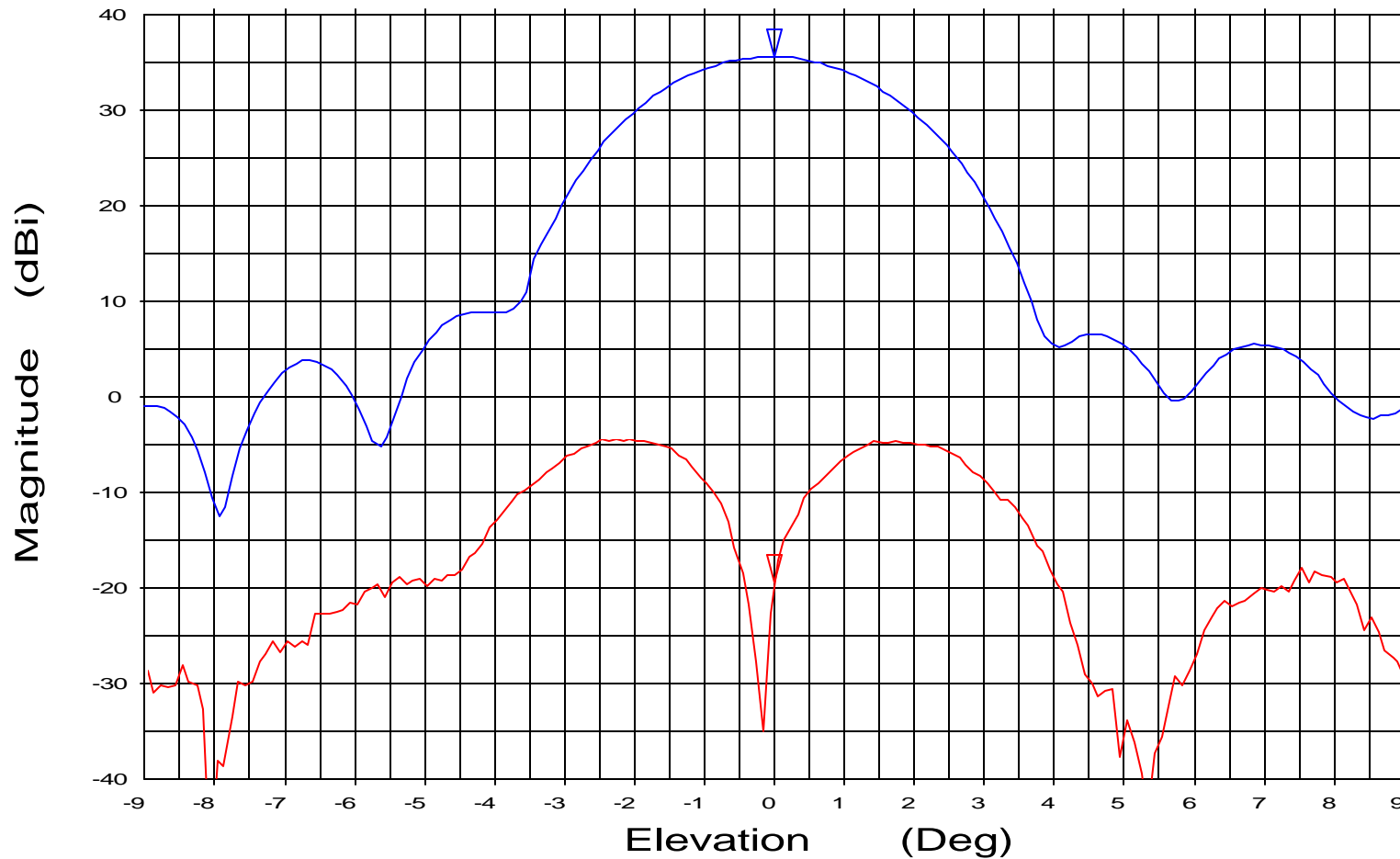
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Gain Analysis	
Position	Gain (dB)
0.000	35.516
0.000	-19.502

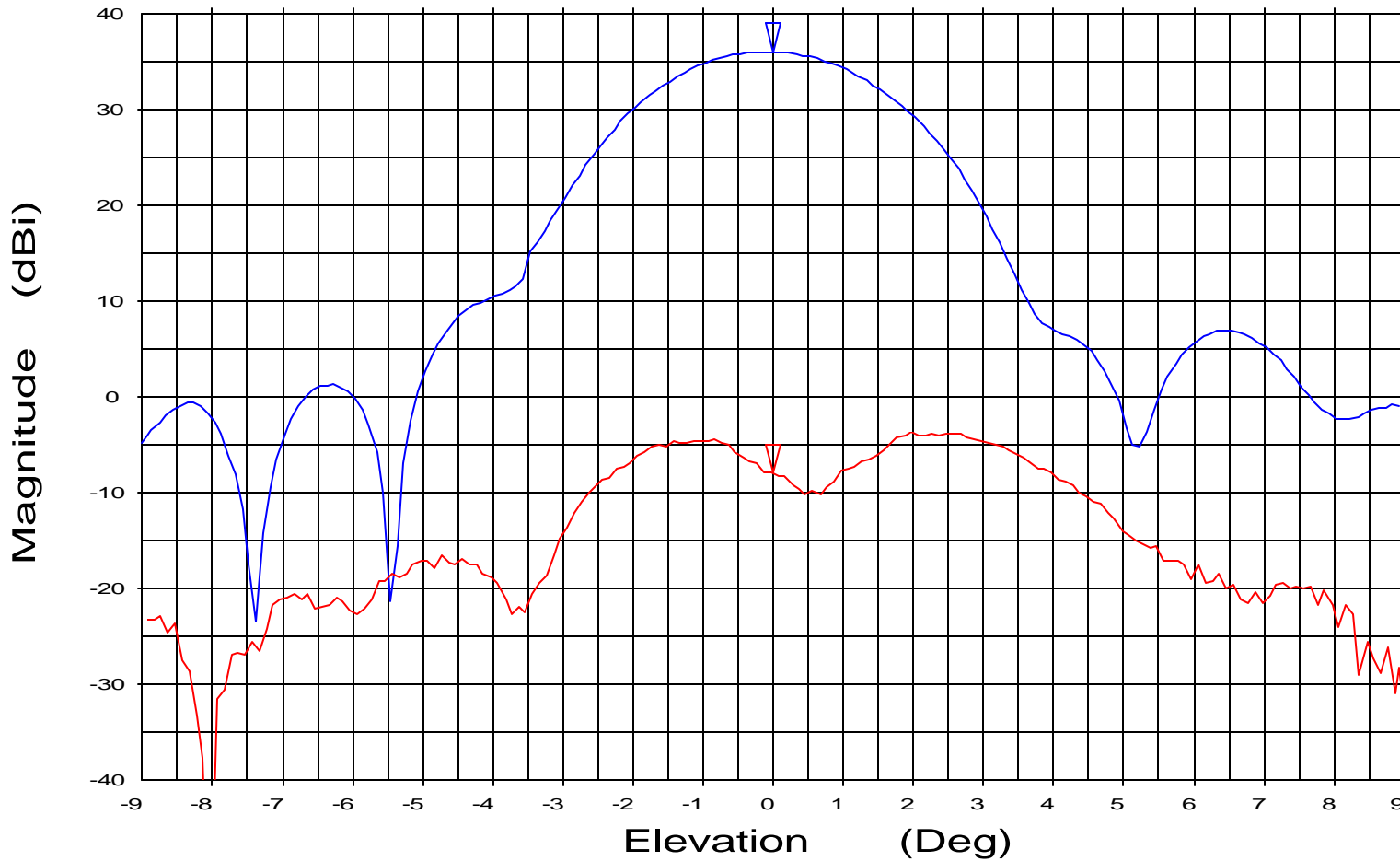
Overlays

- 142725.DAT-ant_under_test
- 142727.DAT-ant_under_test

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

Tx pol: Vert.

Rx pol: Vert.



Gain Analysis	
Position	Gain (dB)
0.000	35.964
0.000	-7.962

Overlays
142725.DAT-ant_under_test — blue line
142727.DAT-ant_under_test — red line

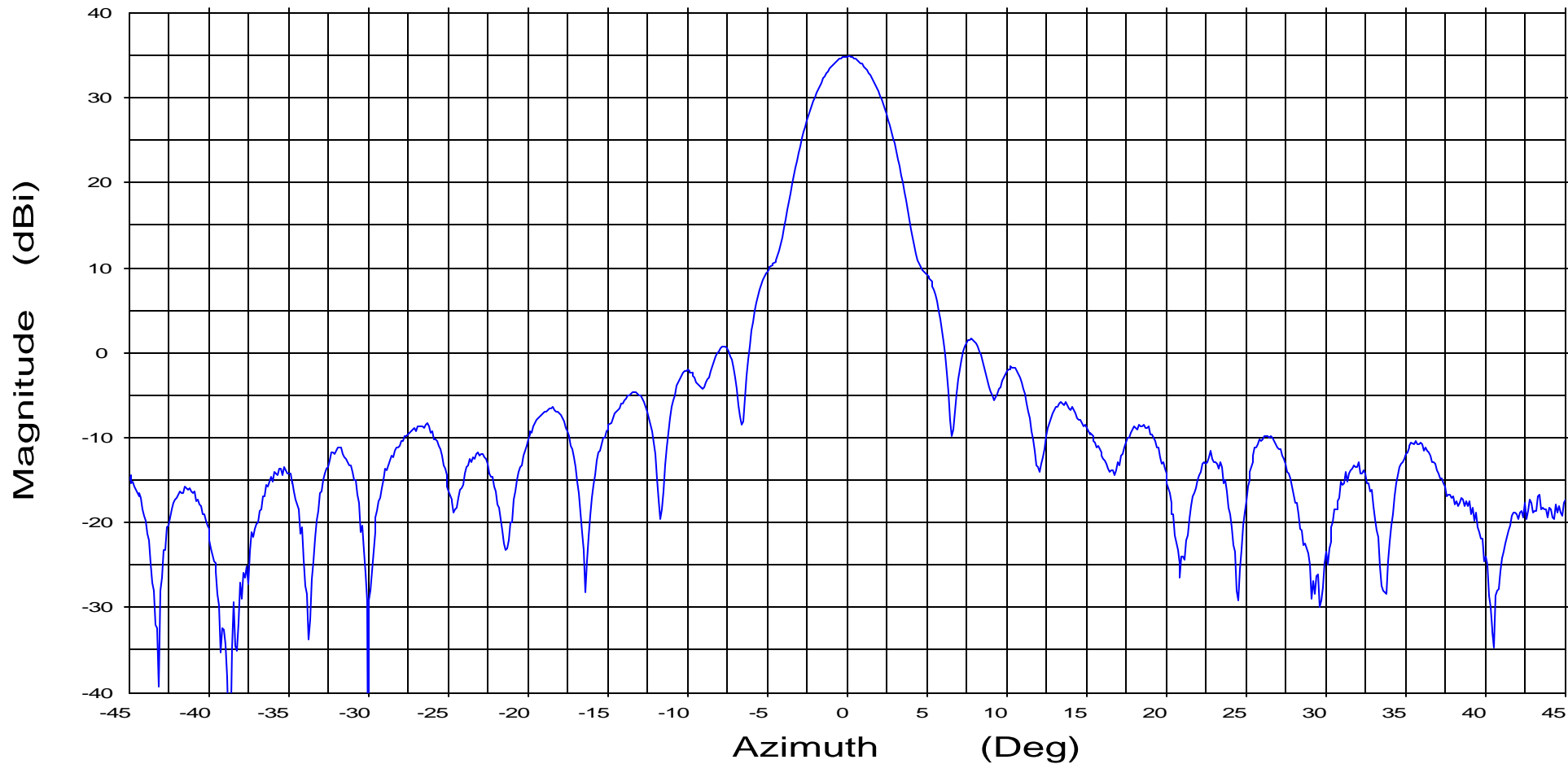
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

142724.DAT-ant_under_test

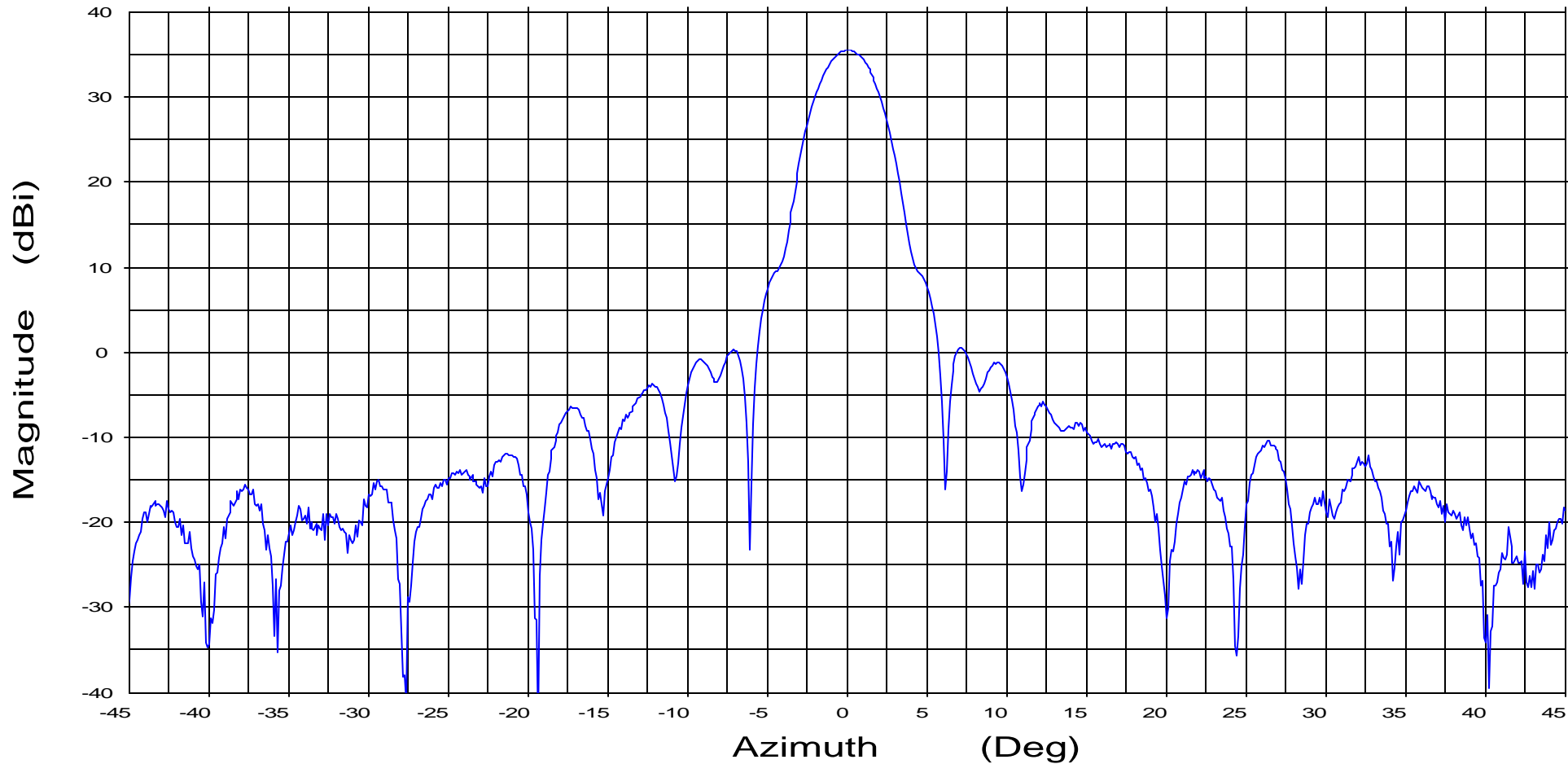
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

142724.DAT-ant_under_test

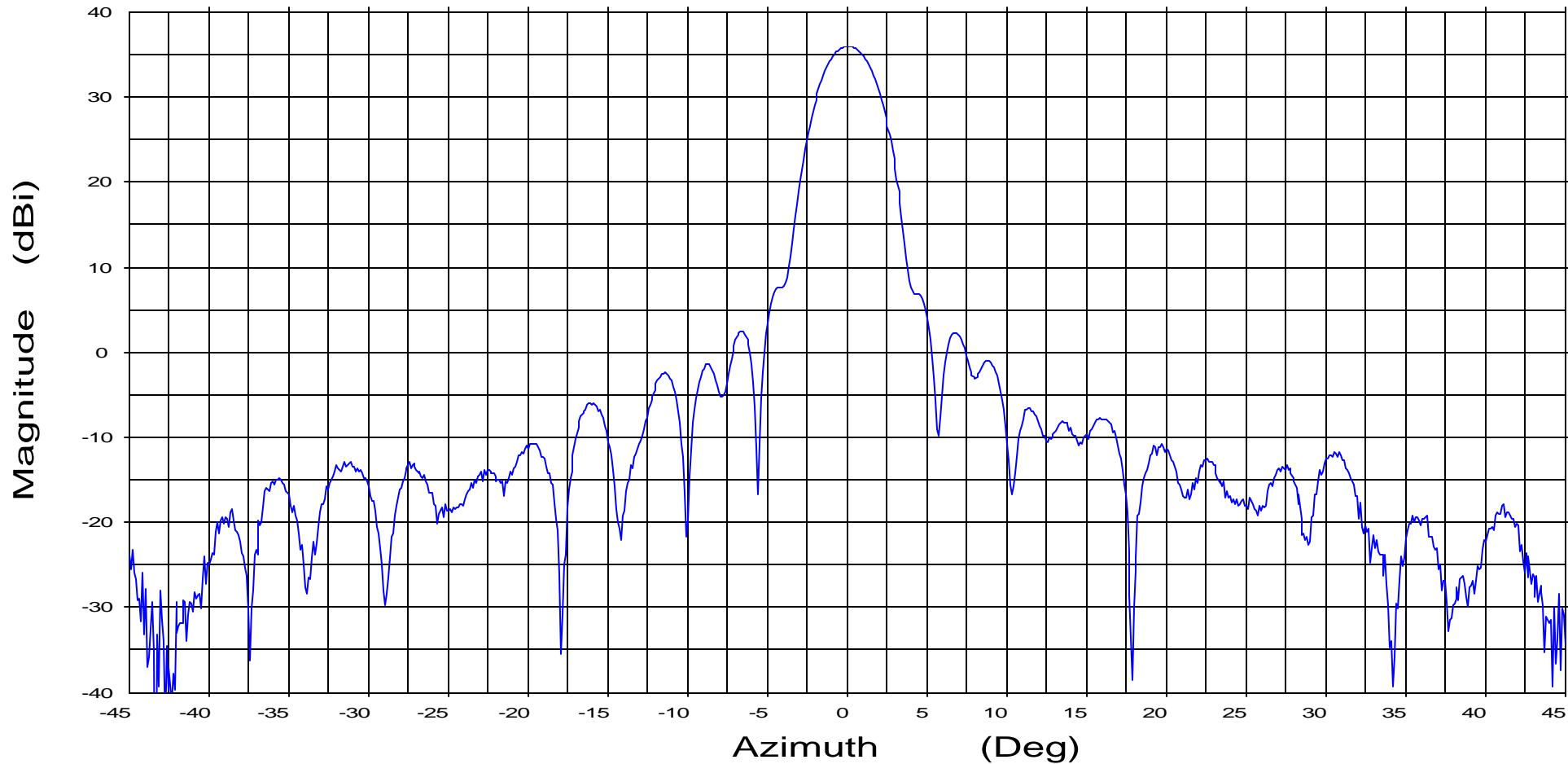
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

142724.DAT-ant_under_test

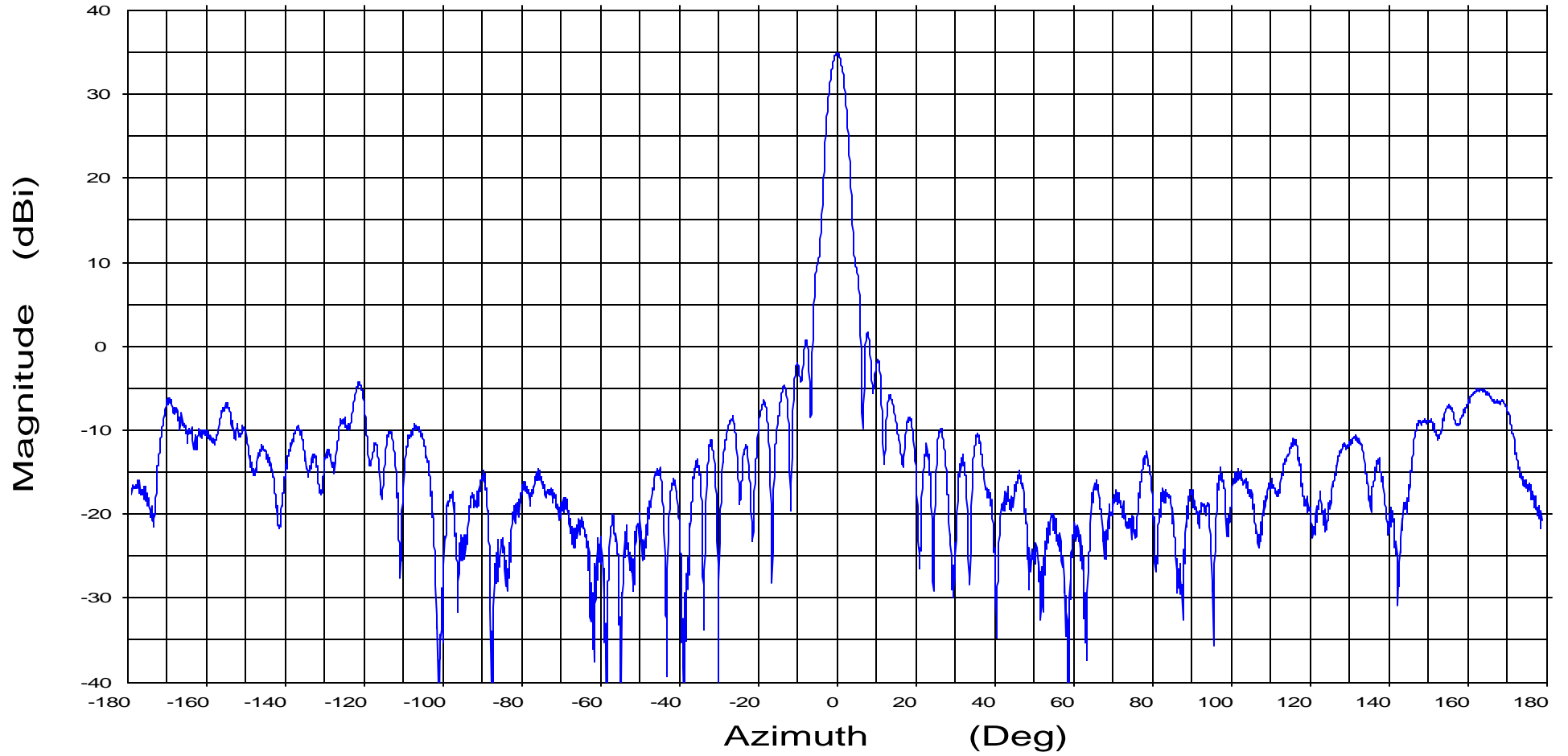
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



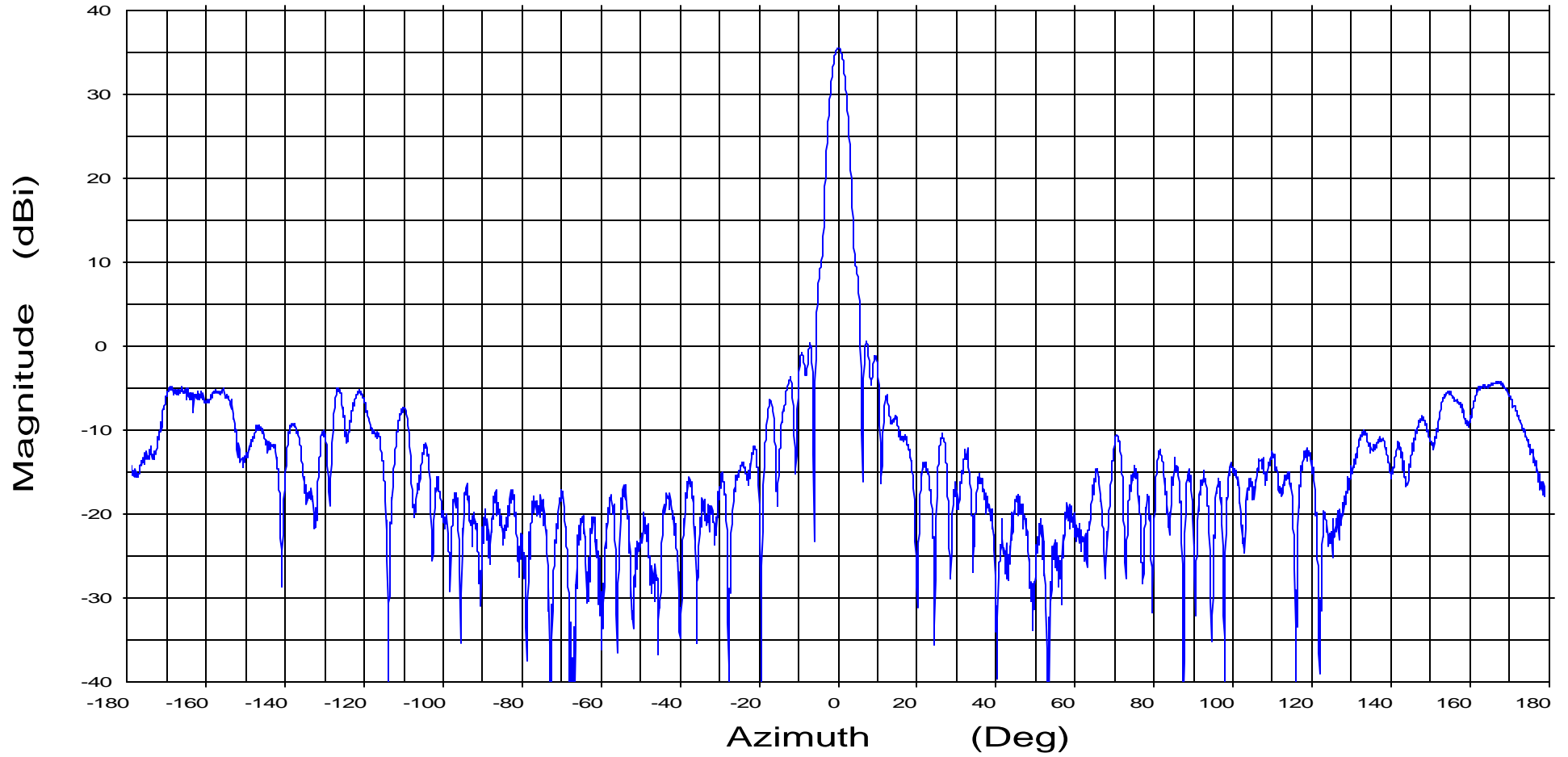
Overlays

142724.DAT-ant_under_test

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

Tx pol: Vert.

Rx pol: Vert.



Overlays
142724.DAT-ant_under_test

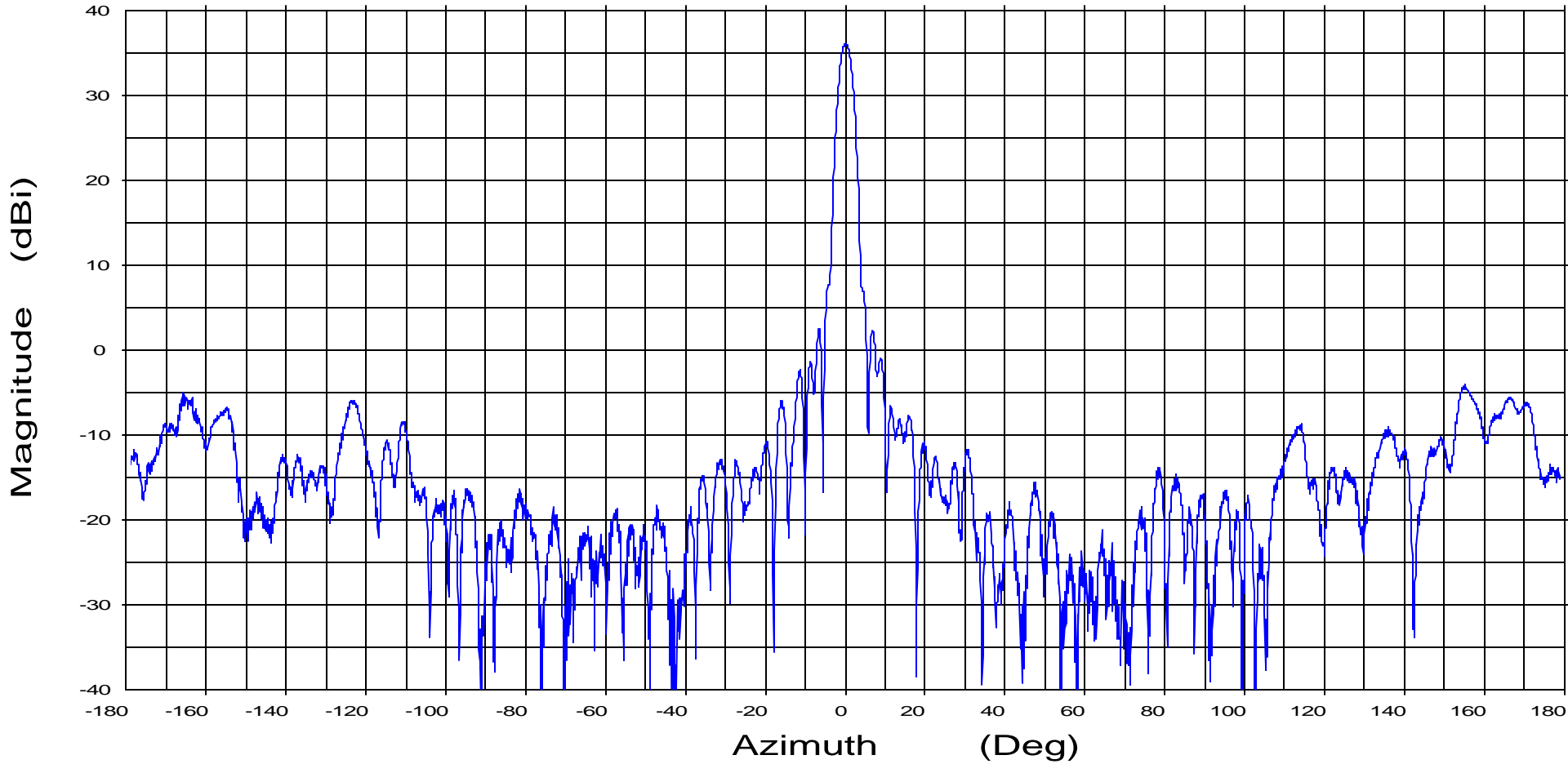
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

142724.DAT-ant_under_test

Section III



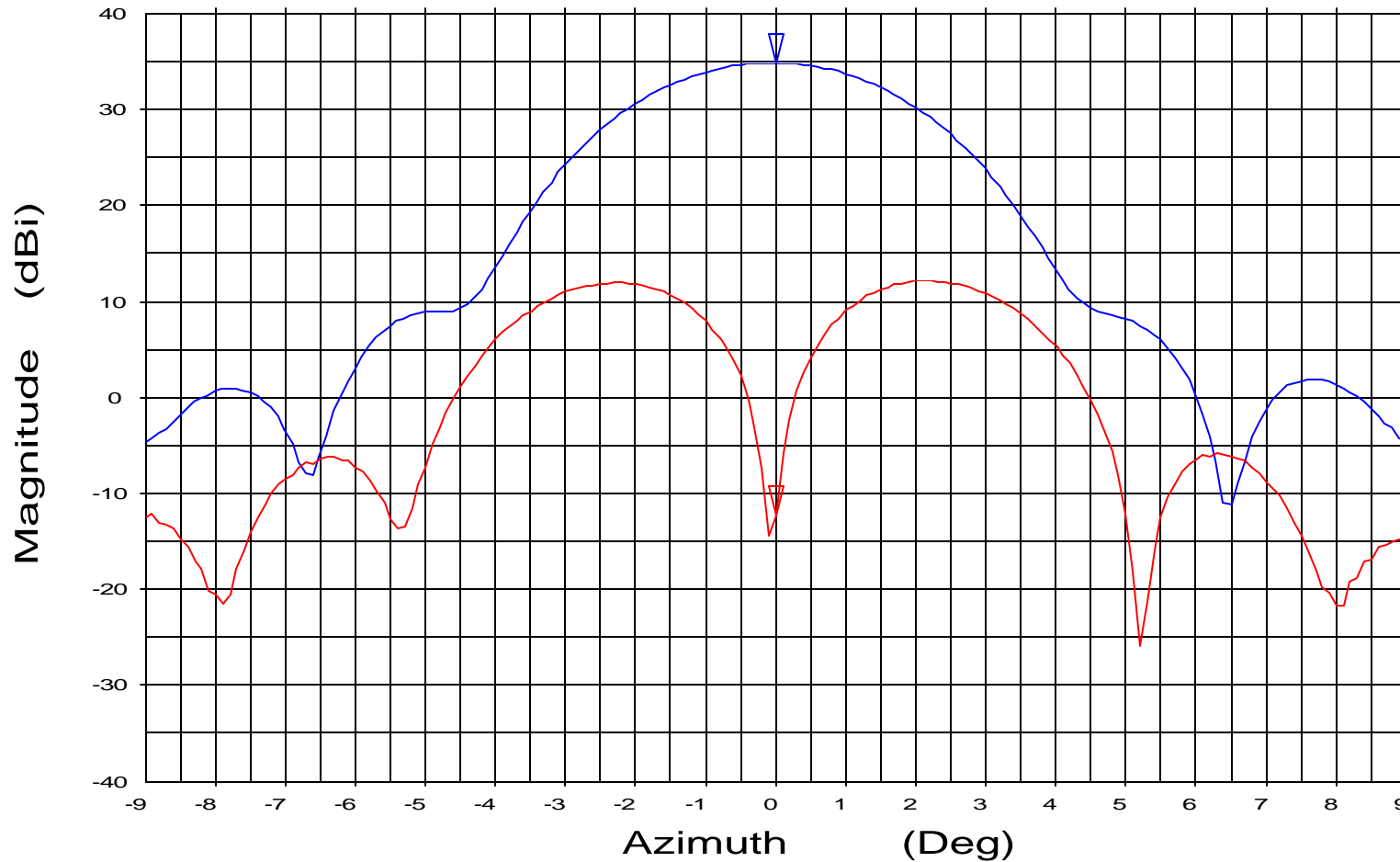
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Gain Analysis	
Position	Gain (dB)
0.000	34.893
0.000	-12.276

Overlays
142728.DAT-ant_under_test — blue line
142730.DAT-ant_under_test — red line

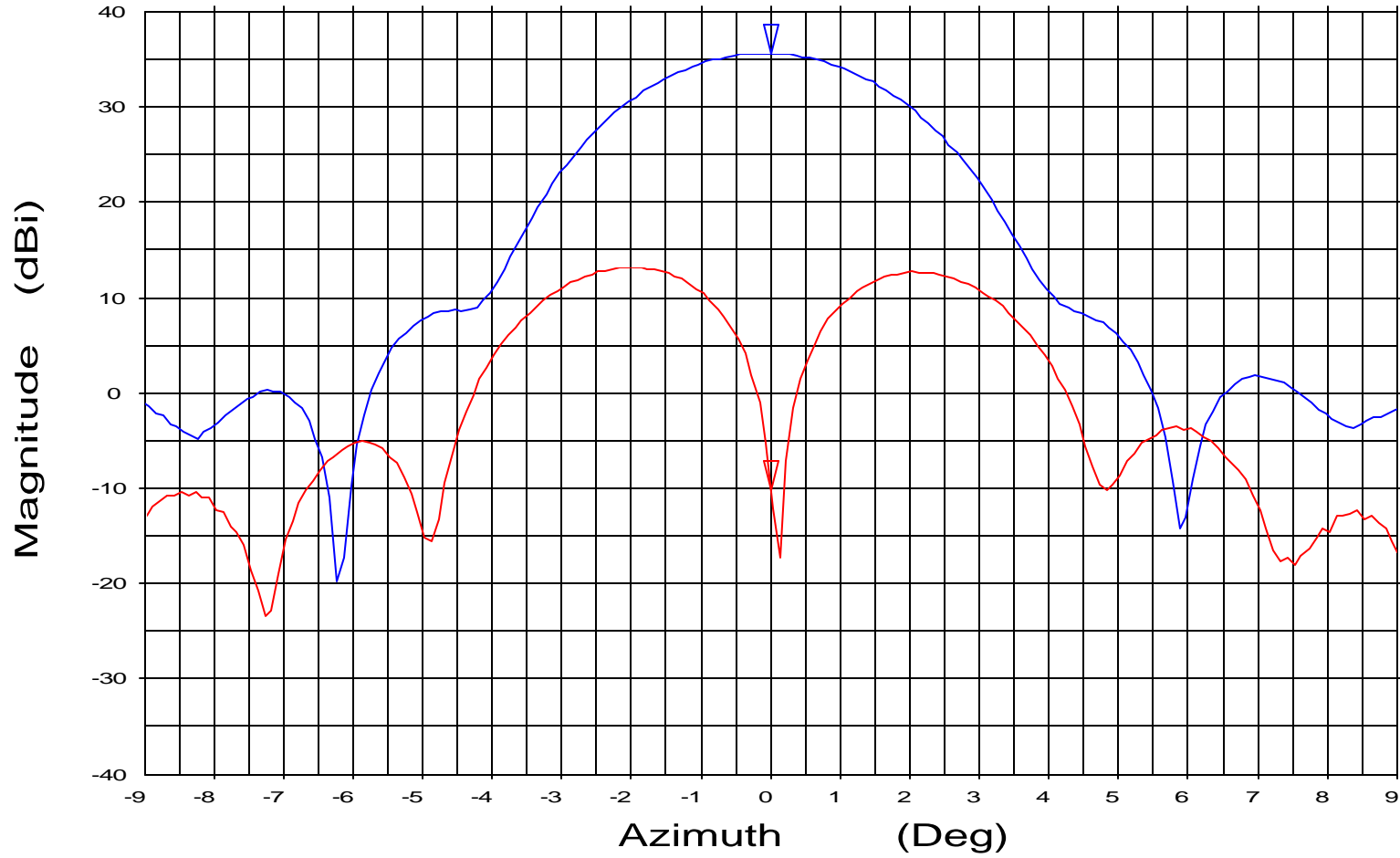
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Gain Analysis	
Position	Gain (dB)
0.000	35.617
0.000	-10.142

Overlays

- 142728.DAT-ant_under_test
- 142730.DAT-ant_under_test

1.8M .6f/d C-Band Rx- Only Antenna System

Frequency : 4.200 GHz

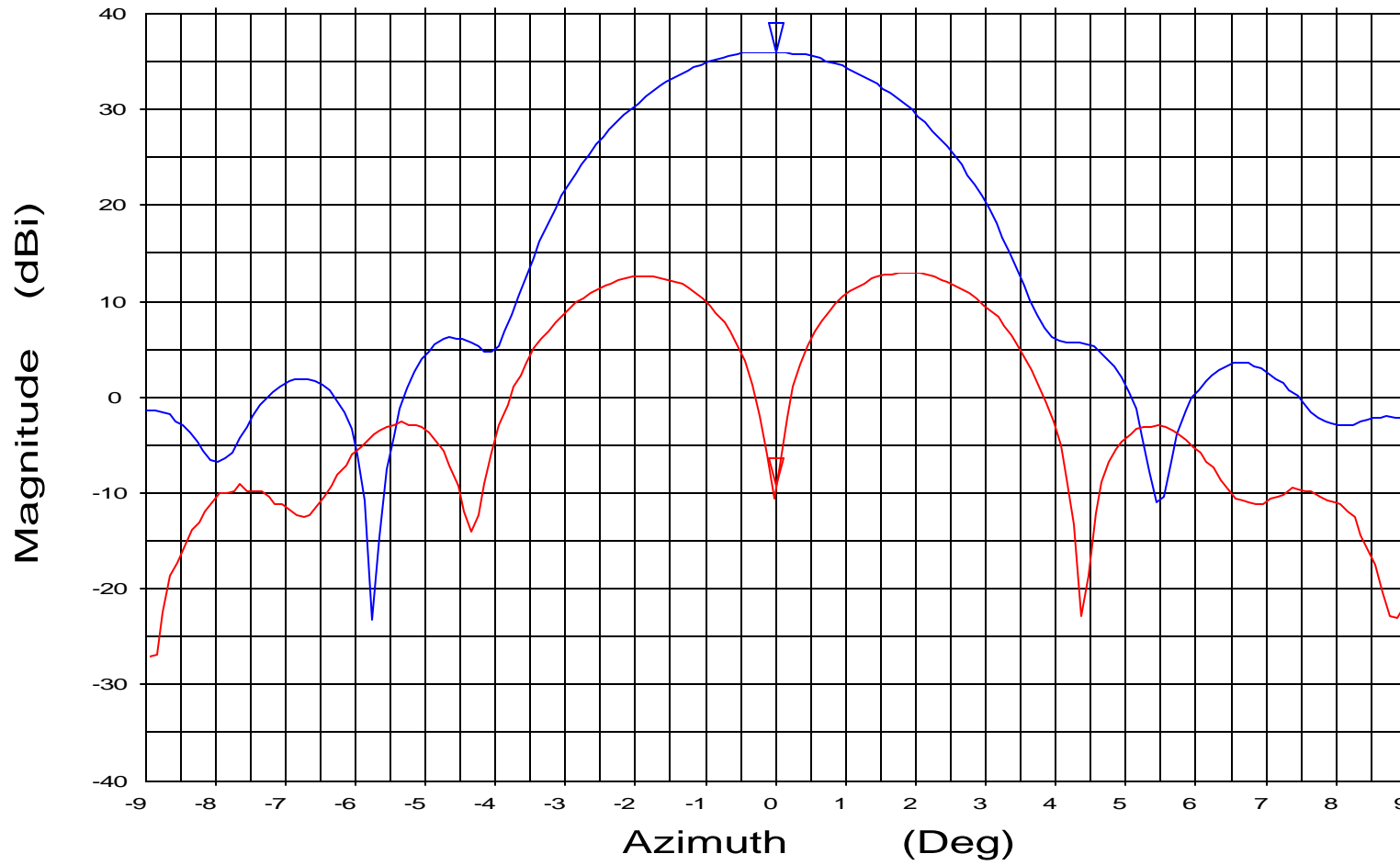
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Gain Analysis	
Position	Gain (dB)
0.000	36.014
0.000	-9.321

Overlays

- 142728.DAT-ant_under_test
- 142730.DAT-ant_under_test

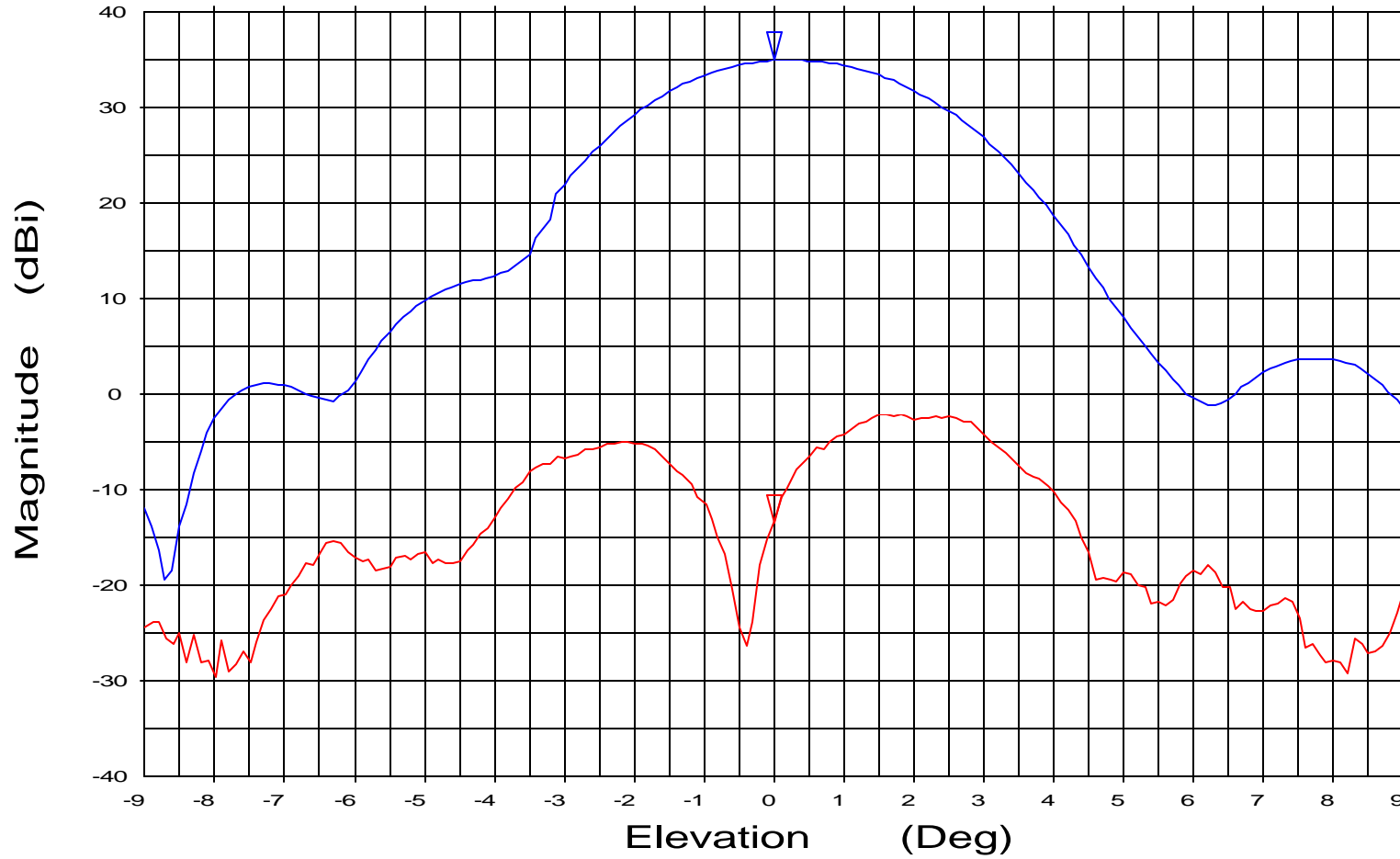
1.8M .6f/d C-Band Rx- Only Antenna System

Frequency : 3.625 GHz

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

Tx pol: Horiz.

Rx pol: Horiz.



Gain Analysis	
Position	Gain (dB)
0.000	34.855
0.000	-13.535

Overlays
142729.DAT-ant_under_test — blue line
142731.DAT-ant_under_test — red line

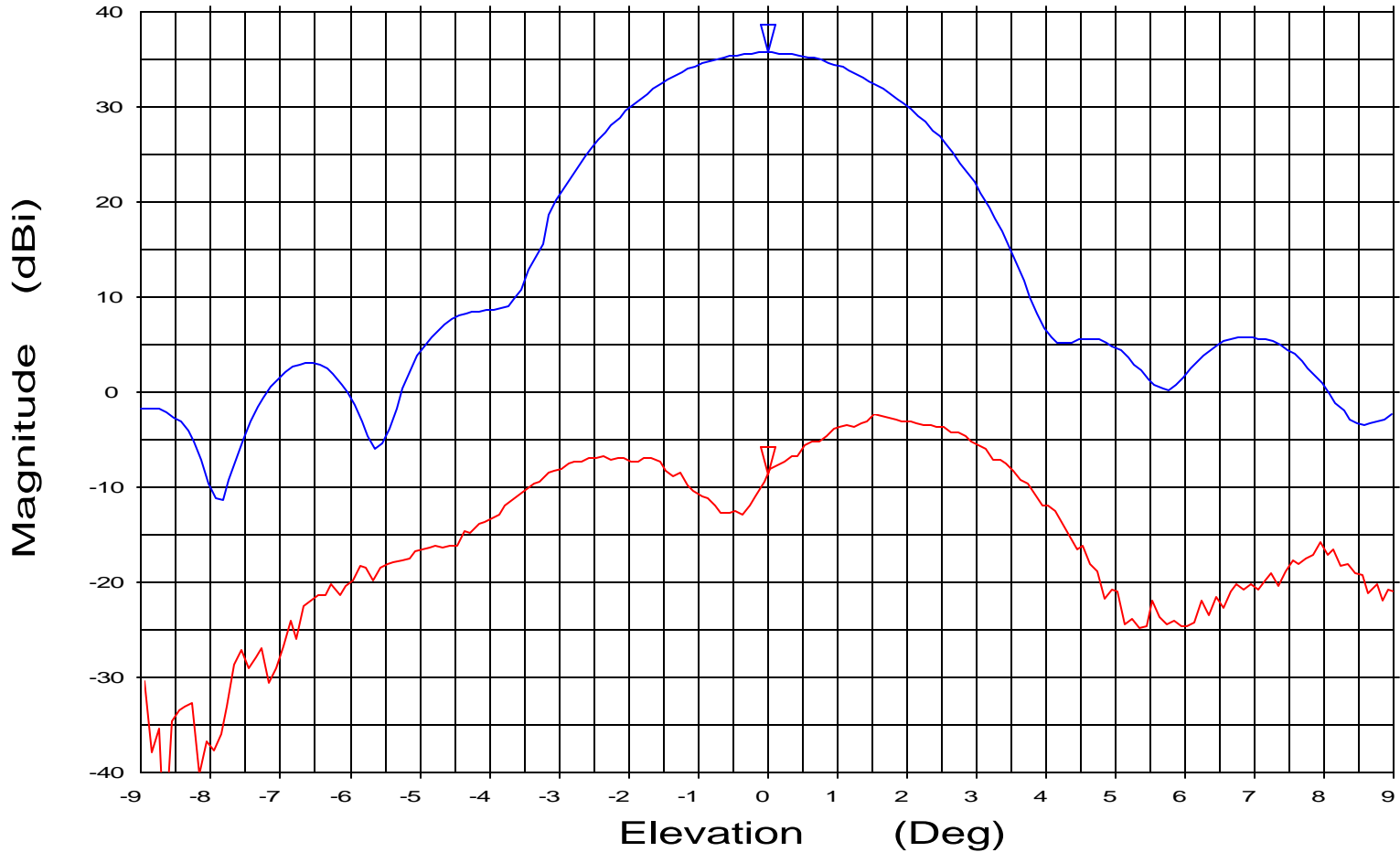
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Gain Analysis	
Position	Gain (dB)
0.000	35.625
0.000	-8.682

Overlays
142729.DAT-ant_under_test — blue line
142731.DAT-ant_under_test — red line

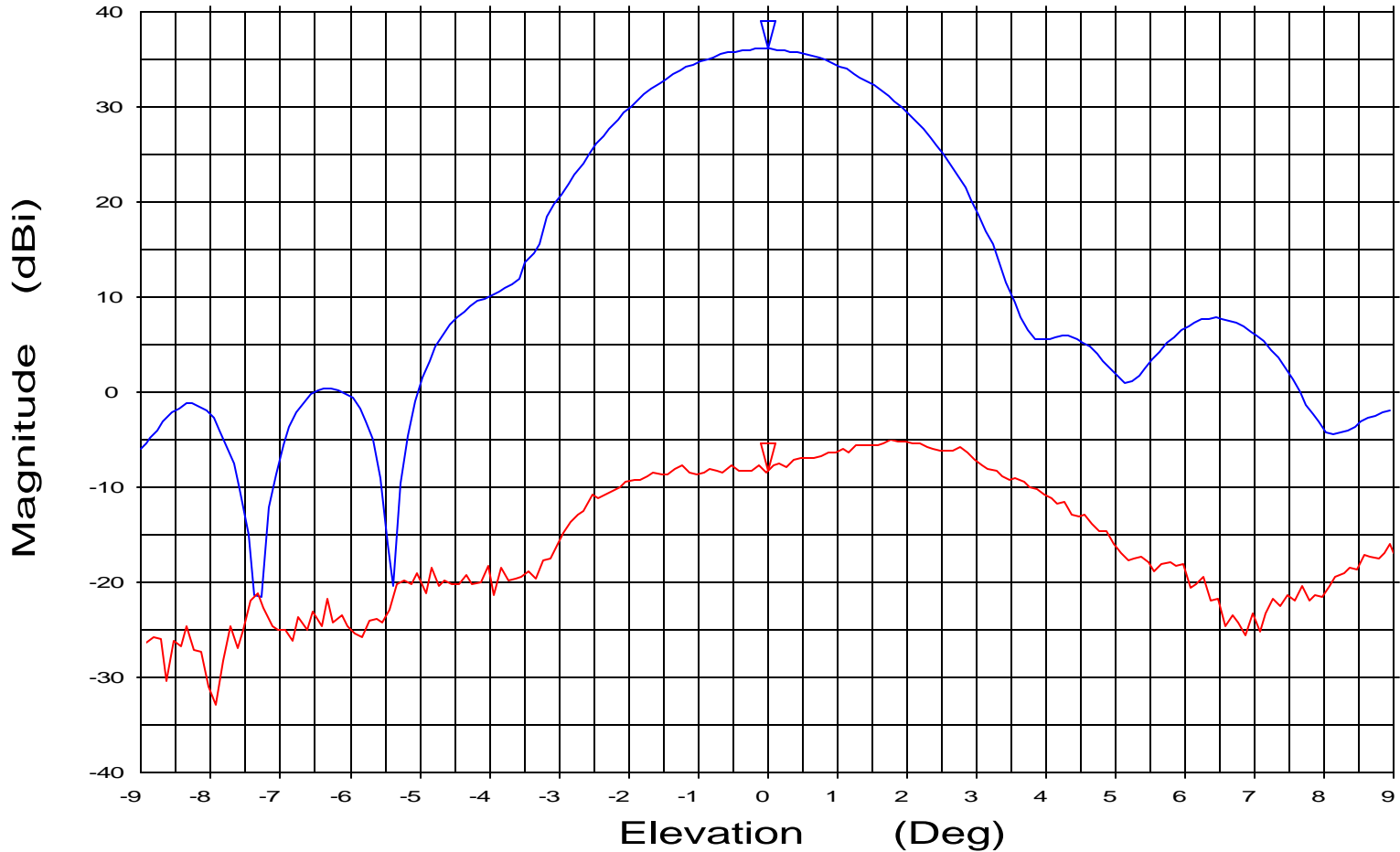
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Gain Analysis	
Position	Gain (dB)
0.000	36.019
0.000	-8.266

Overlays
142729.DAT-ant_under_test — blue line
142731.DAT-ant_under_test — red line

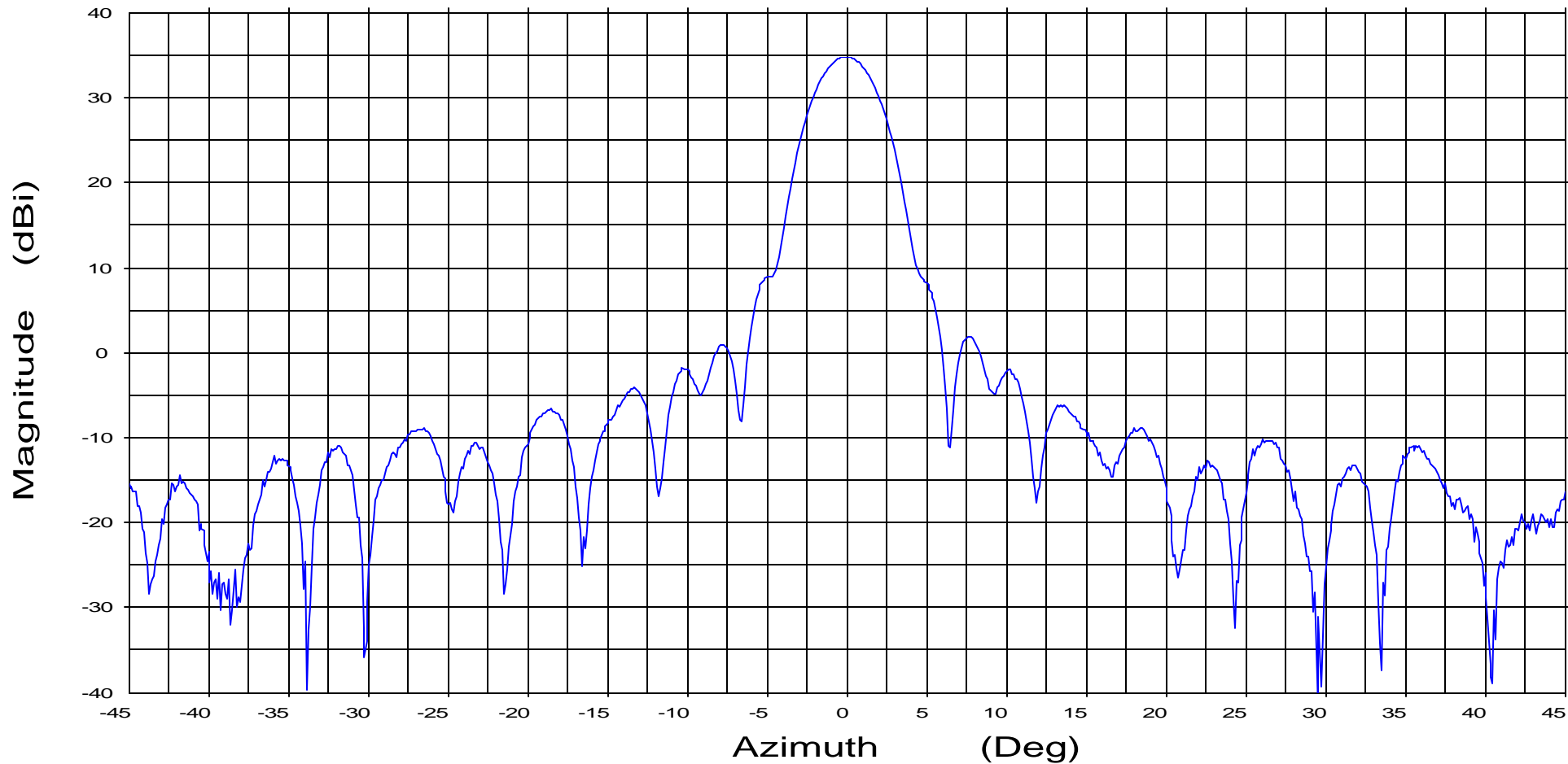
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

142728.DAT-ant_under_test

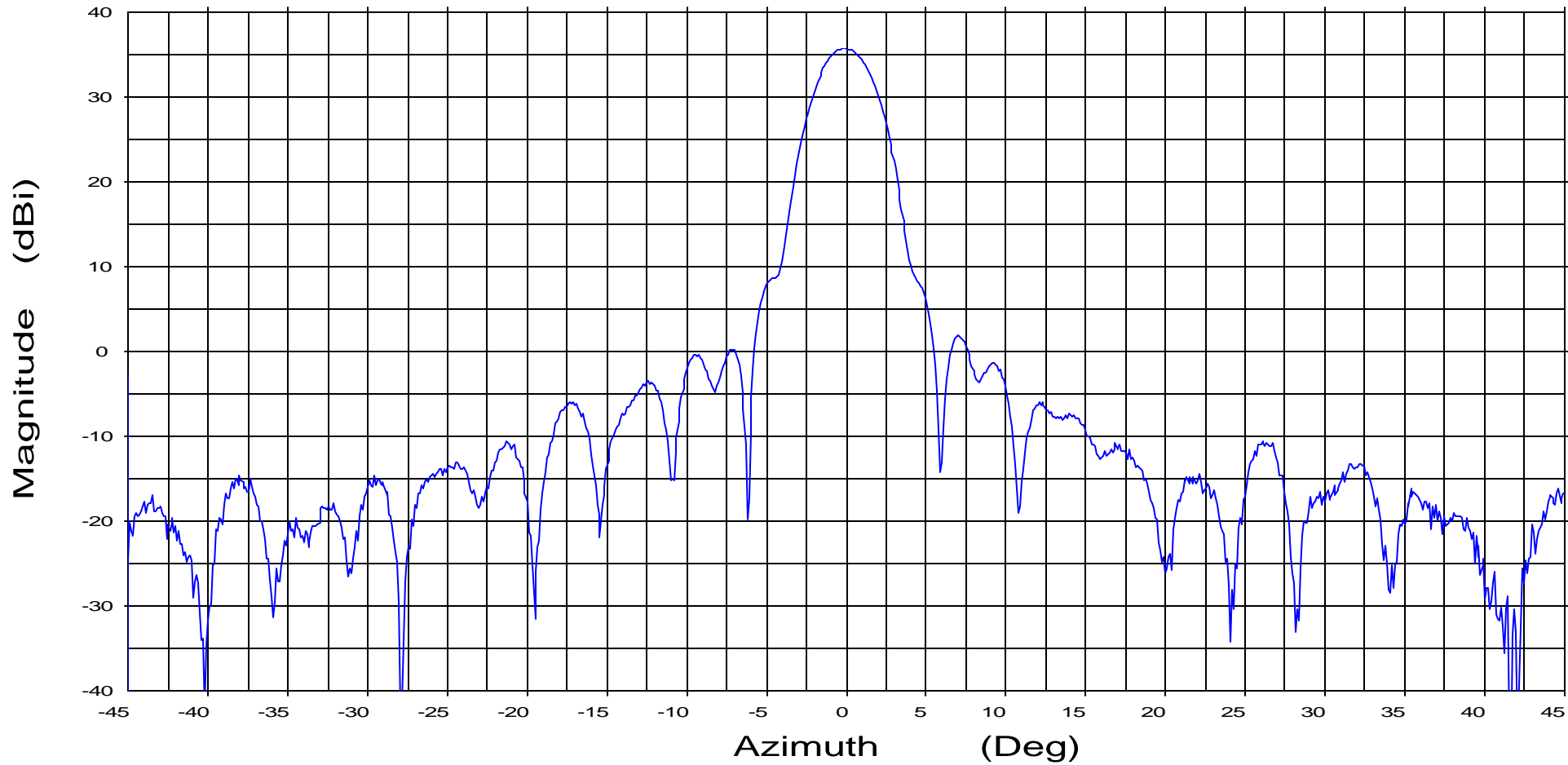
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

142728.DAT-ant_under_test

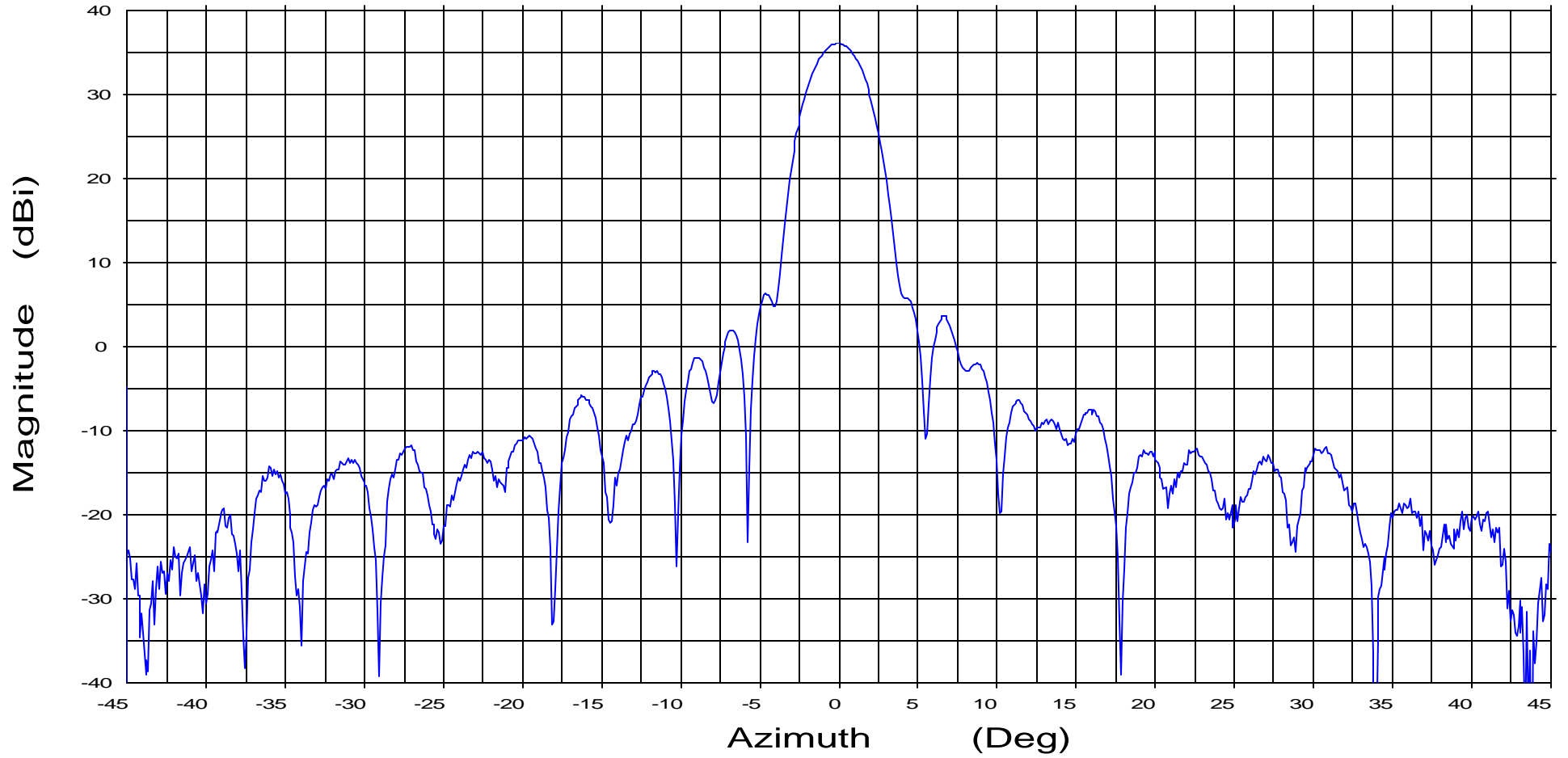
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

142728.DAT-ant_under_test

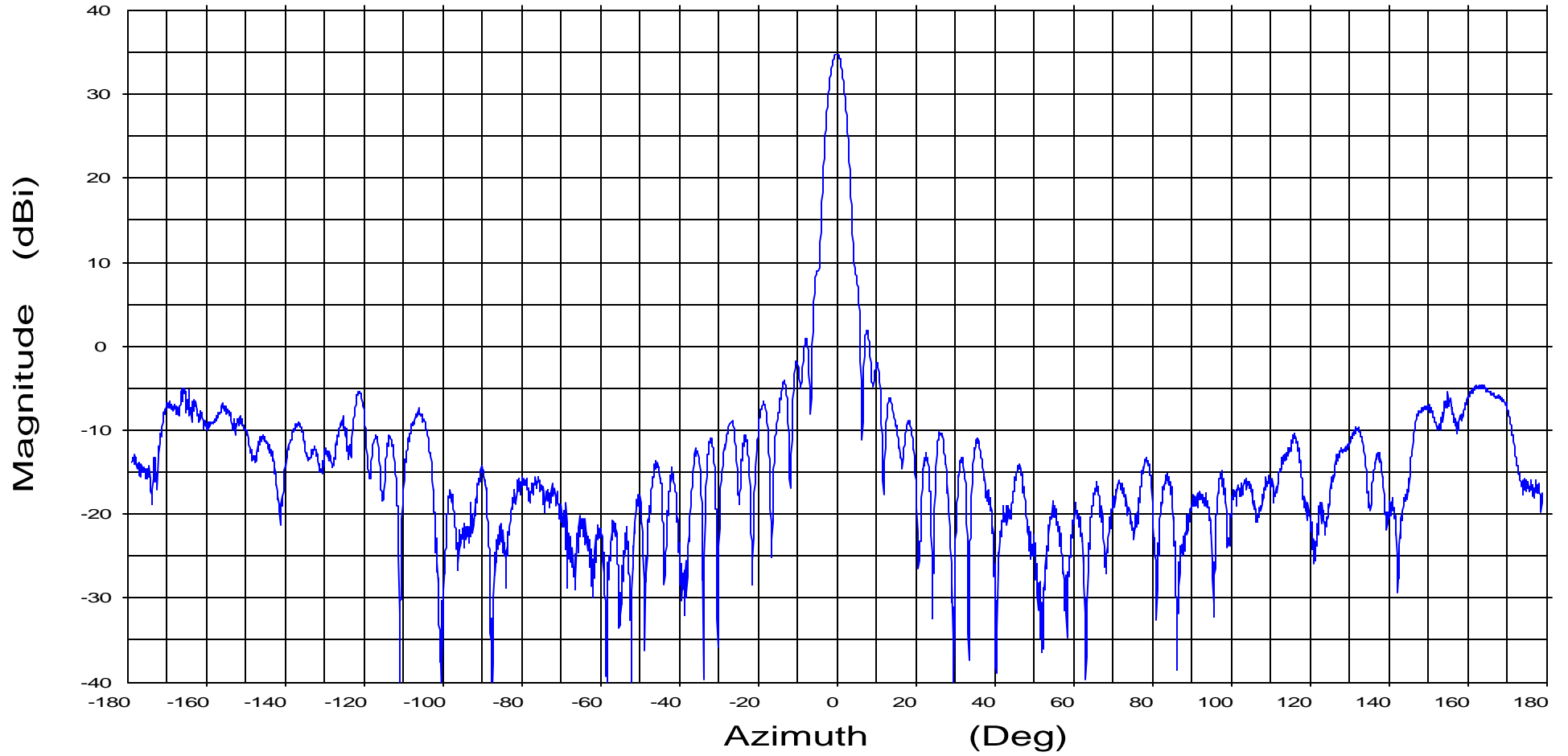
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

142728.DAT-ant_under_test

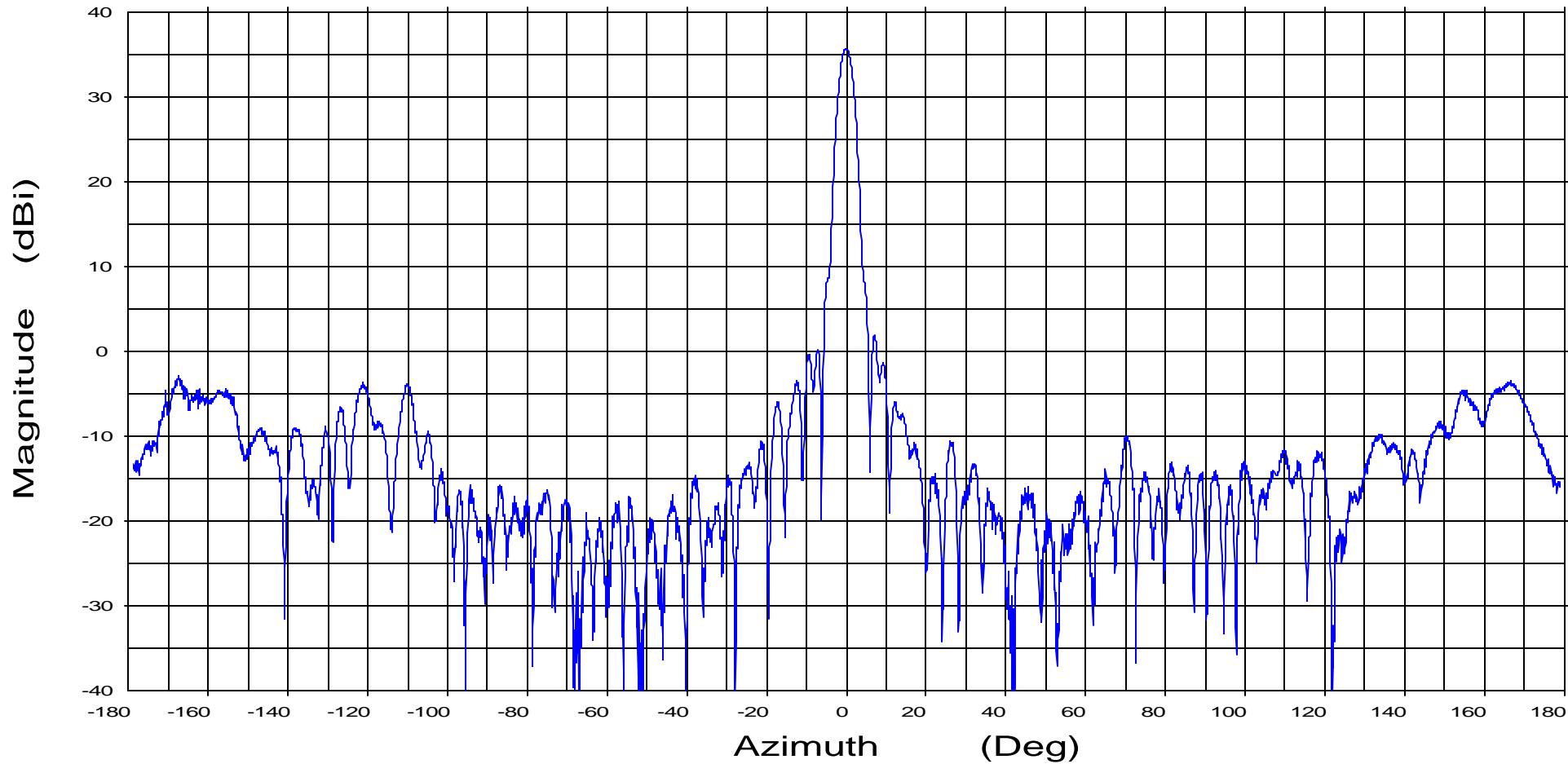
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

142728.DAT-ant_under_test

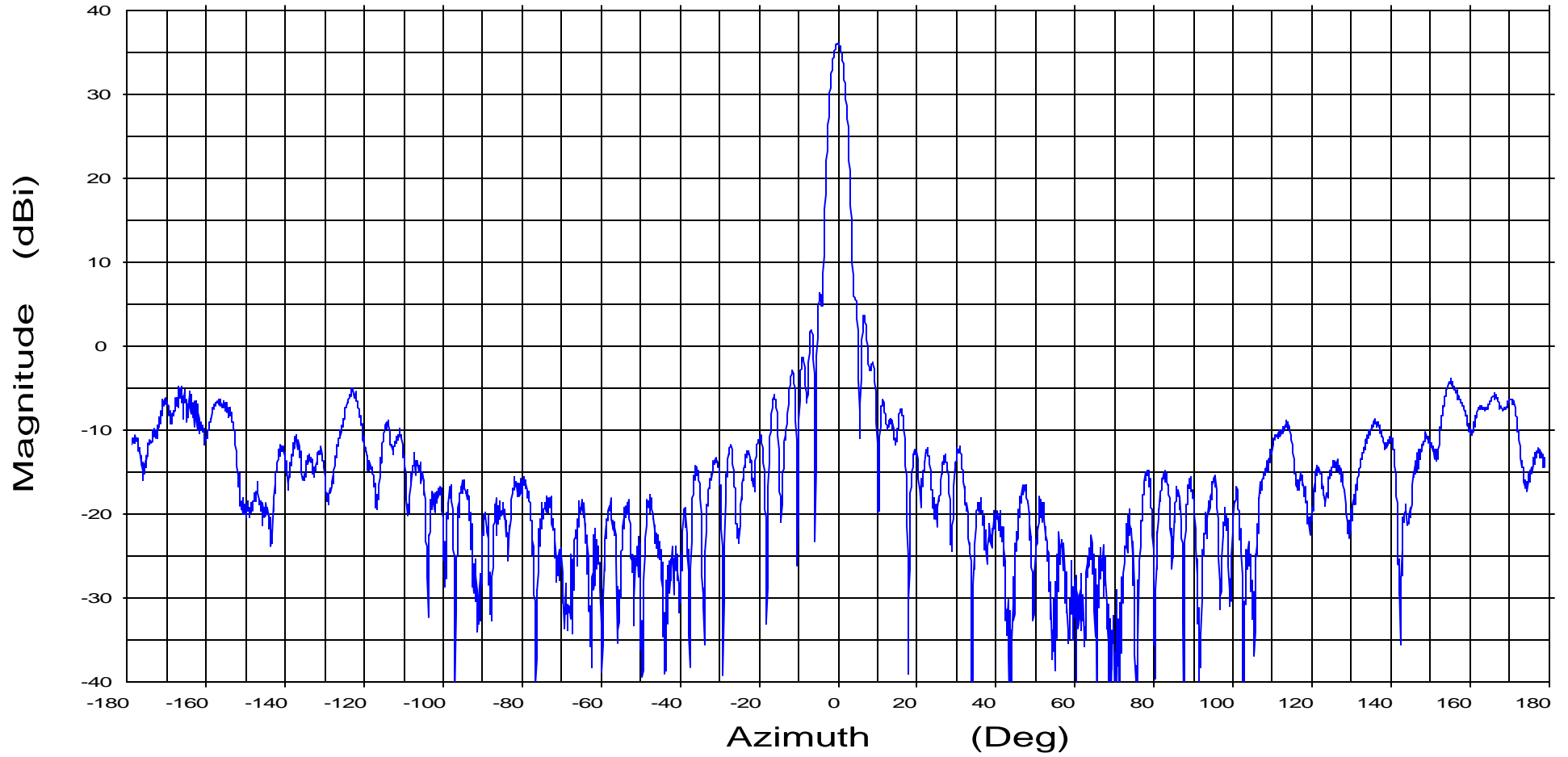
Operator: D. Lutz

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

142728.DAT-ant_under_test