

GENERAL DYNAMICS

C4 Systems

Antenna Test Report
Test No. 1459-Rev. A

Project: 1.8m (.8f/d) Series 1194
Ku-Band Rx/Tx Antenna System



East Maiden Antenna Test Facility
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Maiden, North Carolina 28650
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Prodelin Corporation®

1500 Prodelin Drive
Newton, NC 28658

Antenna Patterns

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Section I

Frequencies Tested

RX

10.95 GHz

11.95 GHz

12.20 GHz

12.45 GHz

12.75 GHz

TX

13.75 GHz

14.00 GHz

14.25 GHz

14.50 GHz

Section II

Gain Analysis

1.8M (.8 f/d)

Series 1194

Ku-Band RX/TX Antenna System

Test No. 1459

Frequency	Polarization	Gain
10.95 (GHz)	Vertical	44.47
11.95 (GHz)	Vertical	45.27
12.20 (GHz)	Vertical	45.49
12.45 (GHz)	Vertical	45.62
12.75 (GHz)	Vertical	45.81

Frequency	Polarization	Gain
10.95 (GHz)	Horizontal	44.48
11.95 (GHz)	Horizontal	45.29
12.20 (GHz)	Horizontal	45.49
12.45 (GHz)	Horizontal	45.60
12.75 (GHz)	Horizontal	45.83

Frequency	Polarization	Gain
13.75 (GHz)	Vertical	46.47
14.00 (GHz)	Vertical	46.64
14.25 (GHz)	Vertical	46.76
14.50 (GHz)	Vertical	46.93

Frequency	Polarization	Gain
13.75 (GHz)	Horizontal	46.49
14.00 (GHz)	Horizontal	46.66
14.25 (GHz)	Horizontal	46.77
14.50 (GHz)	Horizontal	46.99

Section III

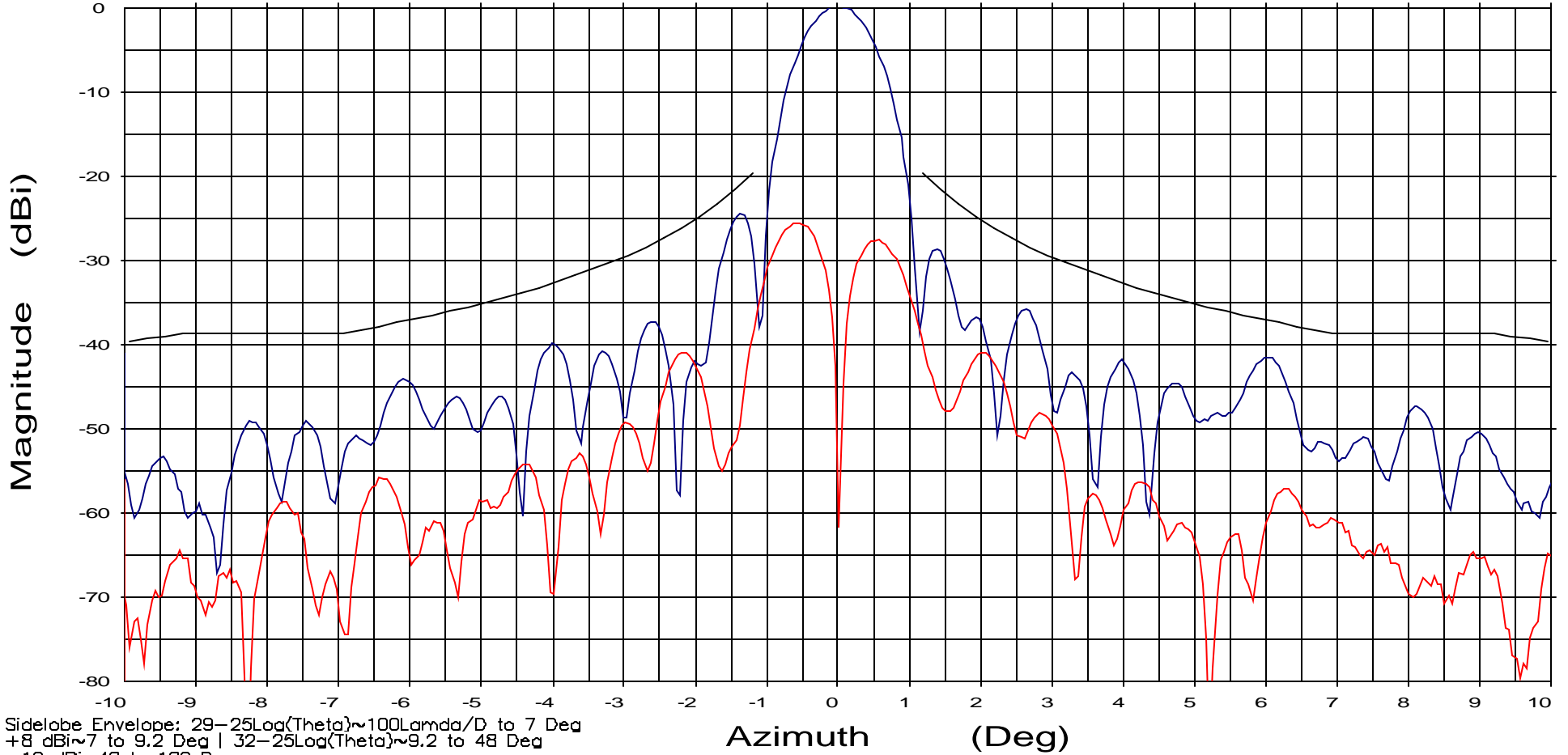
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 13.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays
1459-06.dat-ant_under_test
1459-07.dat-ant_under_test

Cal. file	units
1459-06.dat	dBi
1459-07.dat	dBi

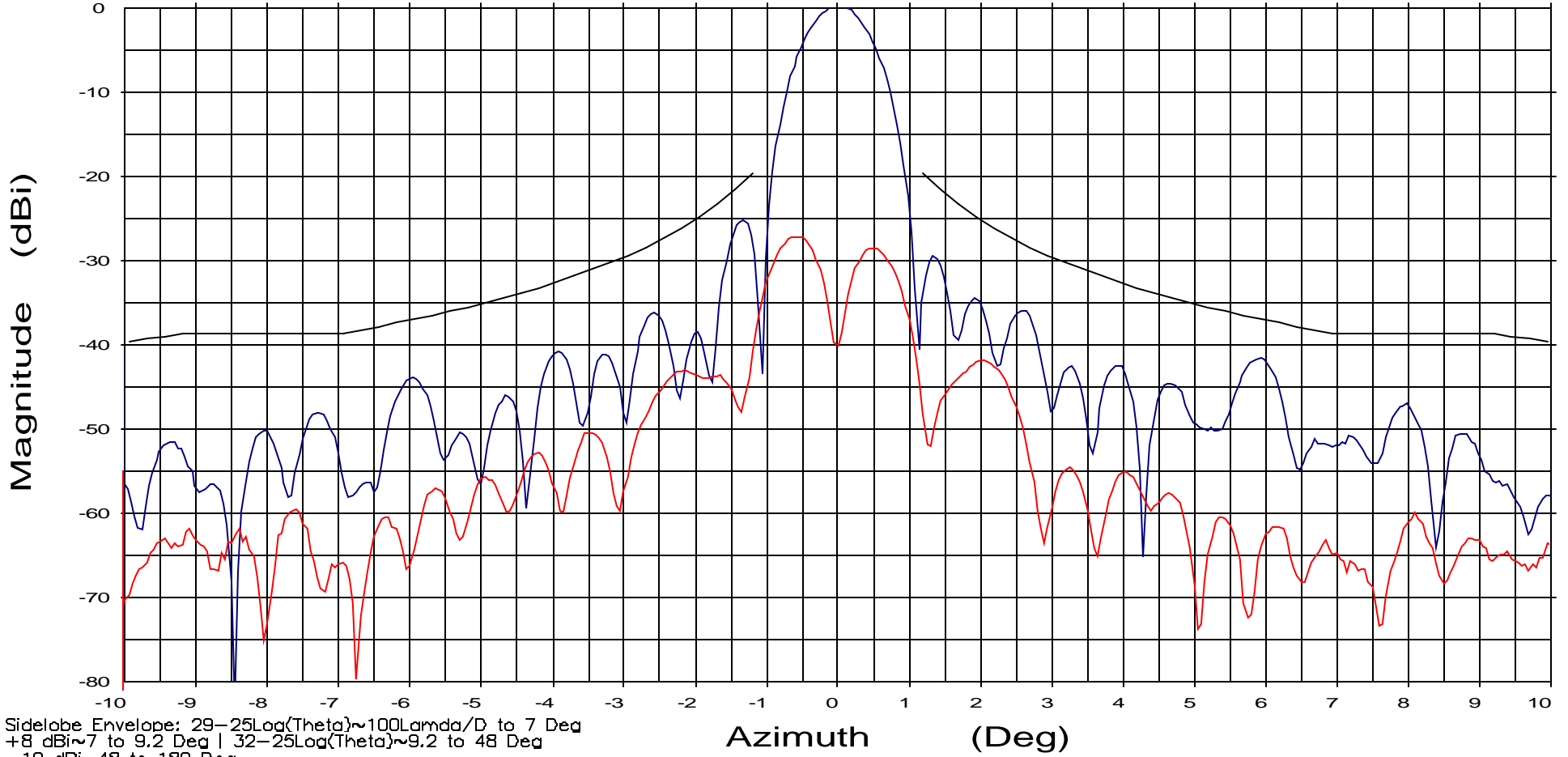
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.000 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays

1459-06.dat-ant_under_test
1459-07.dat-ant_under_test

Cal. file

1459-06.dat
1459-07.dat

units

dBi
dBi

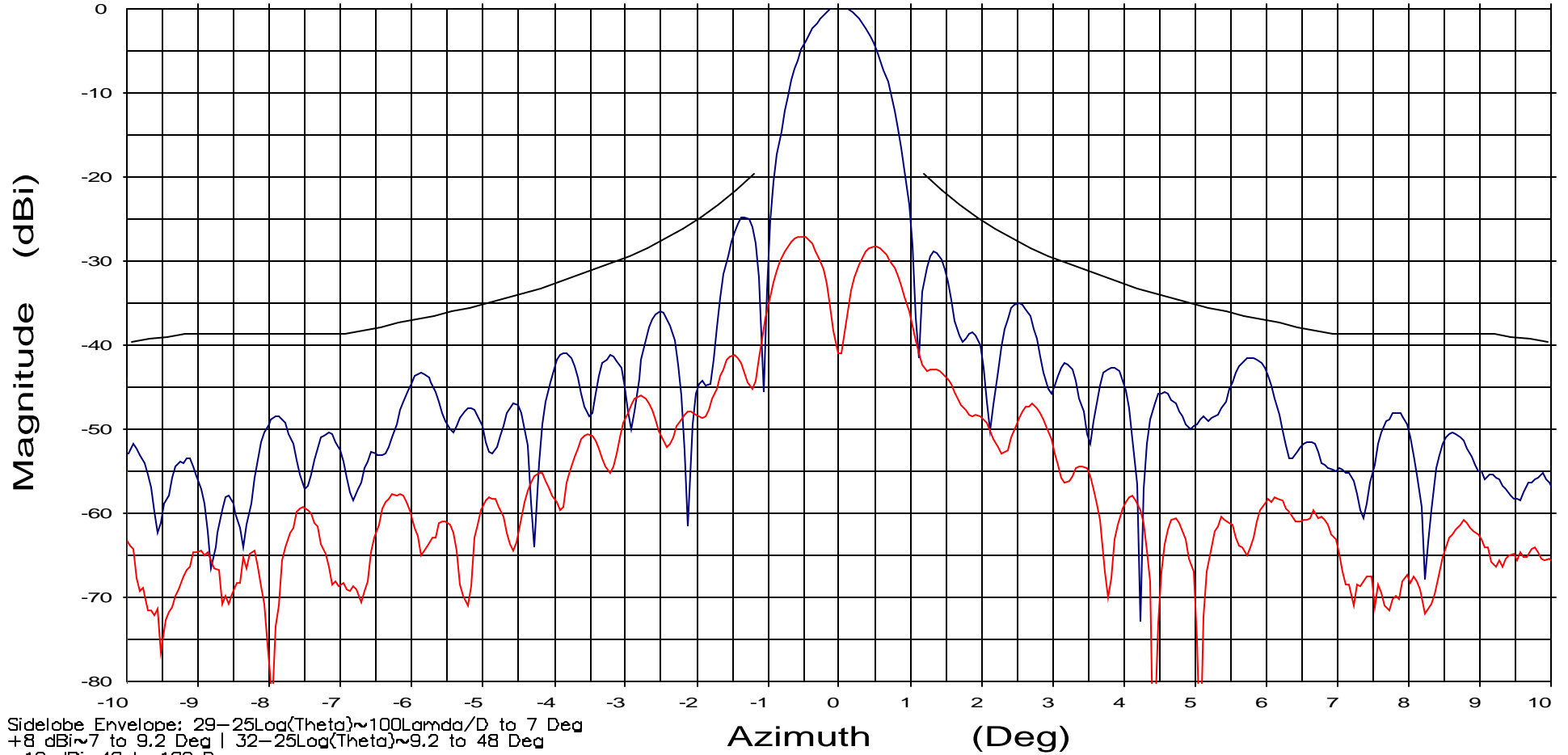
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.250 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-06.dat-ant_under_test	1459-06.dat	dBi
1459-07.dat-ant_under_test	1459-07.dat	dBi

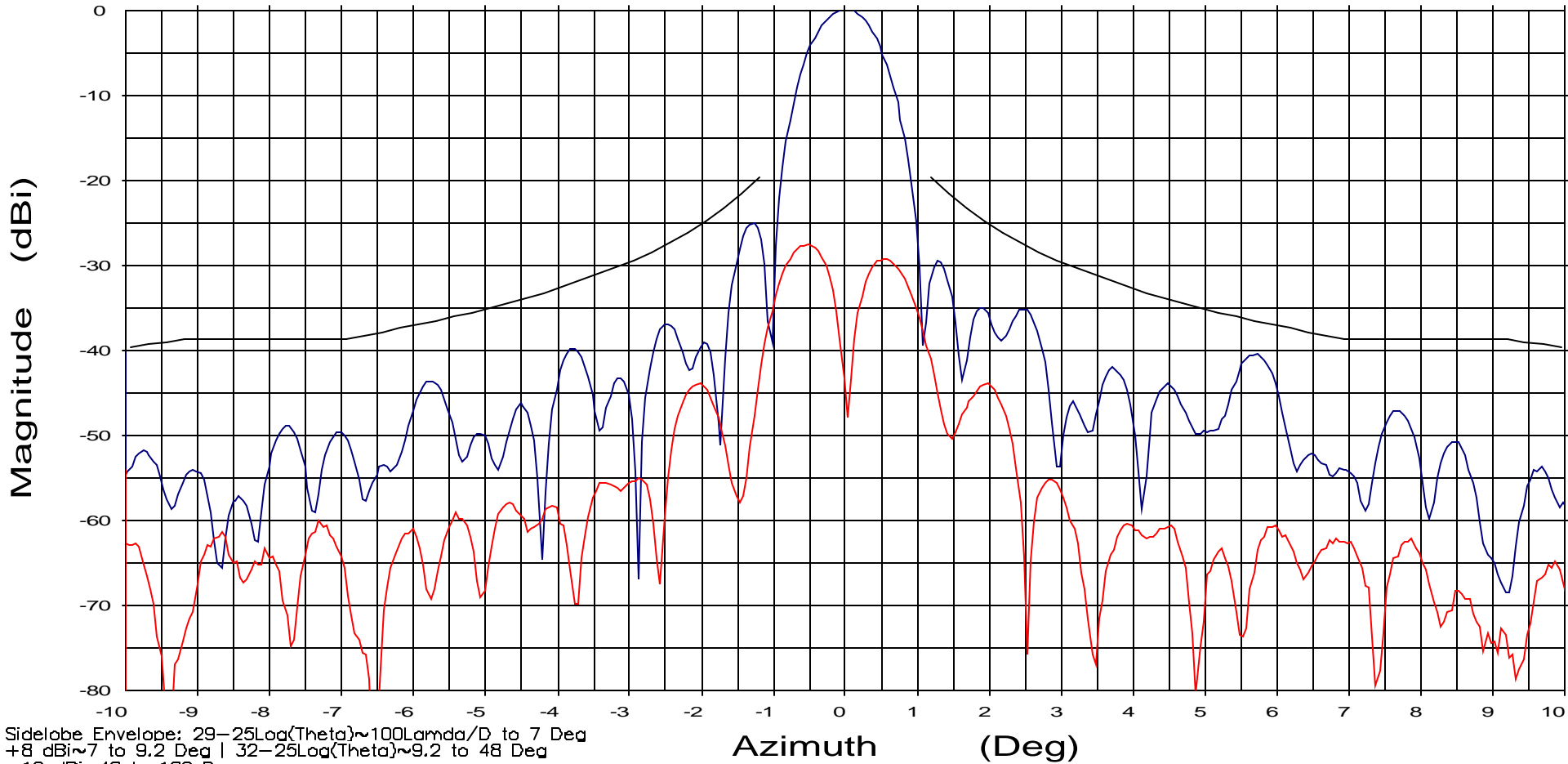
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.500 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test
1459-07.dat-ant_under_test

Cal. file	units
1459-06.dat	dBi
1459-07.dat	dBi

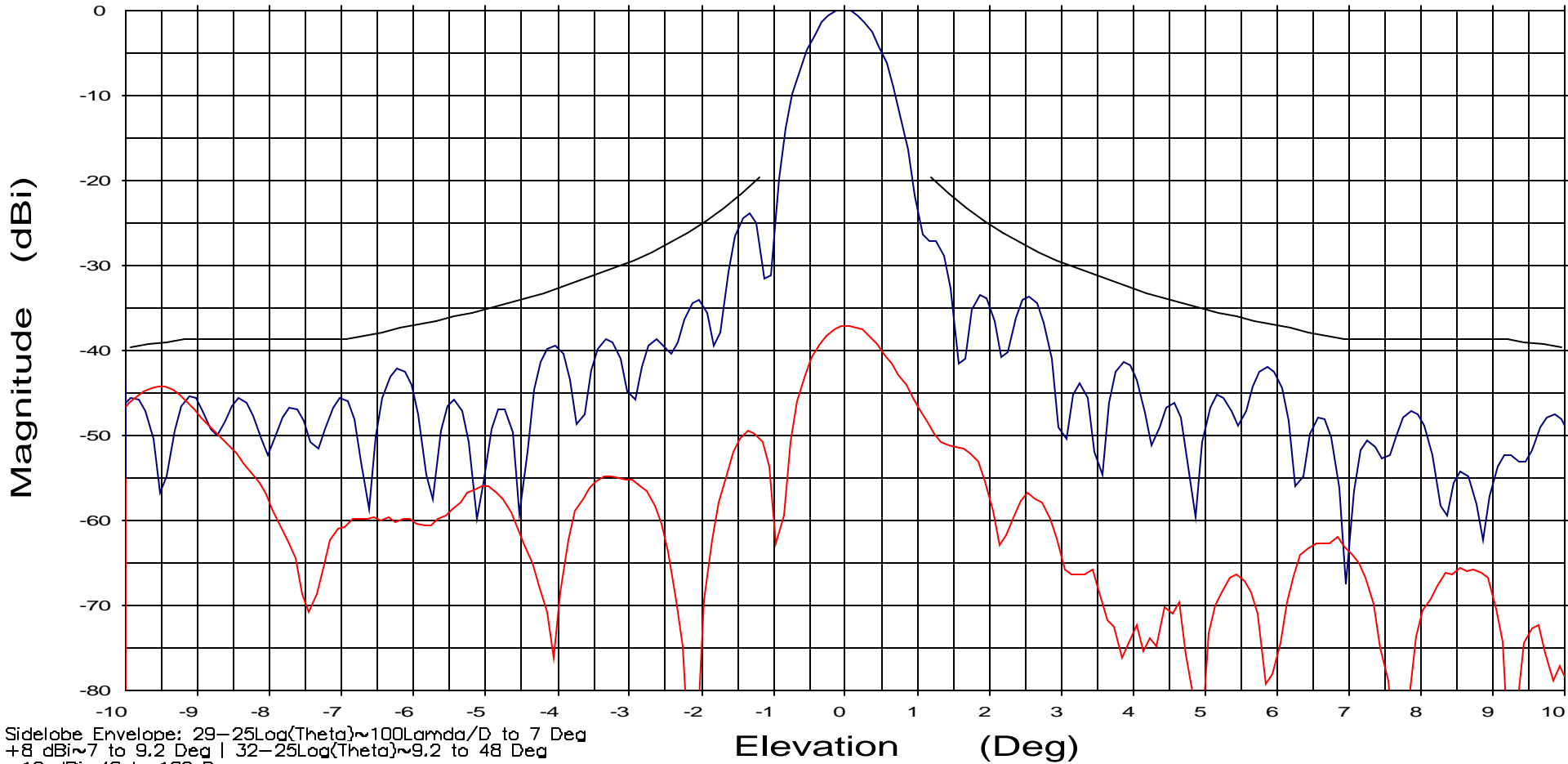
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 13.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
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Rx pol: Vert.



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-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-22.dat-ant_under_test	1459-22.dat	dBi
1459-24.dat-ant_under_test	1459-24.dat	dBi

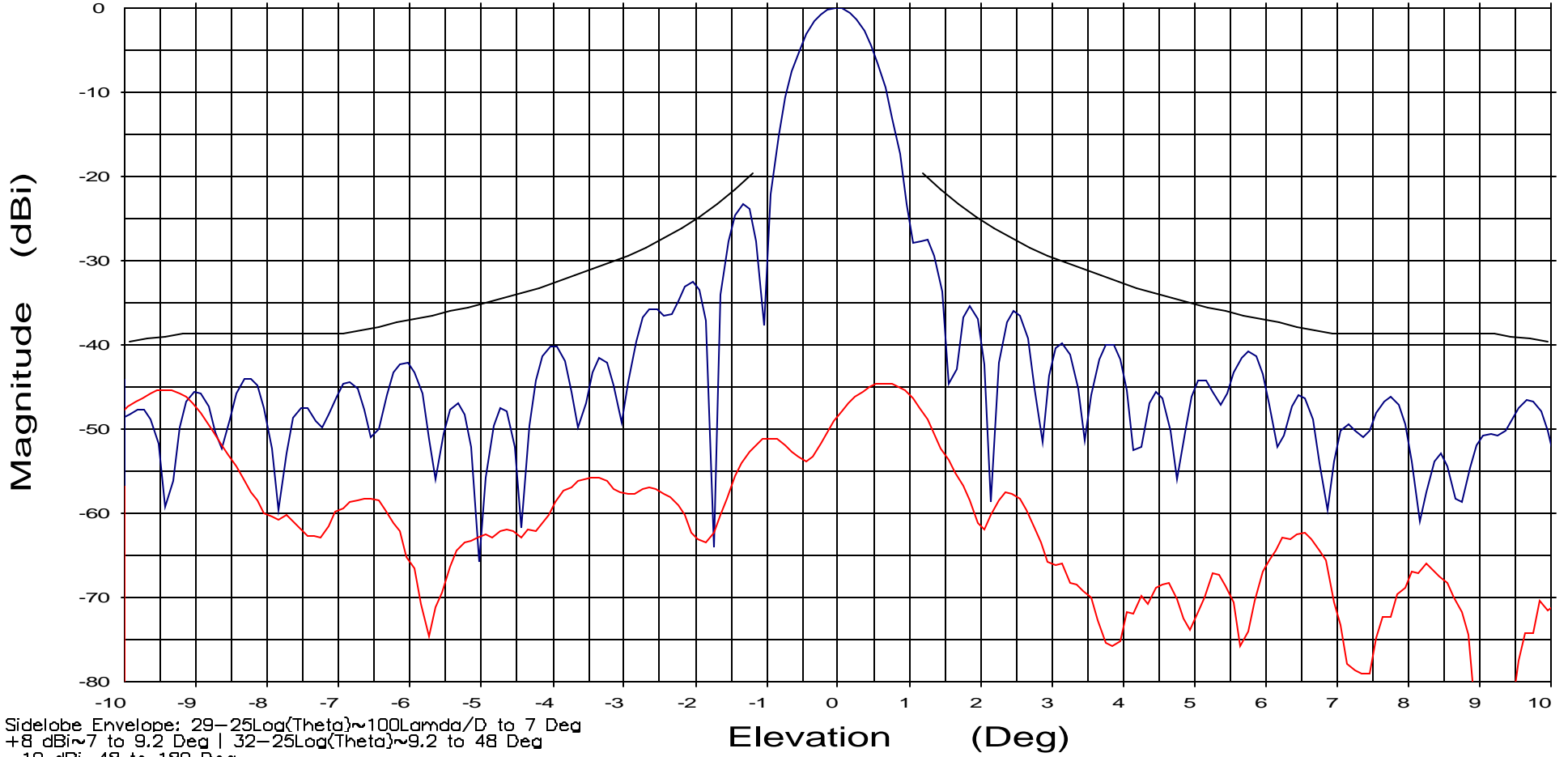
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SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.000 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-22.dat-ant_under_test	1459-22.dat	dBi
1459-24.dat-ant_under_test	1459-24.dat	dBi

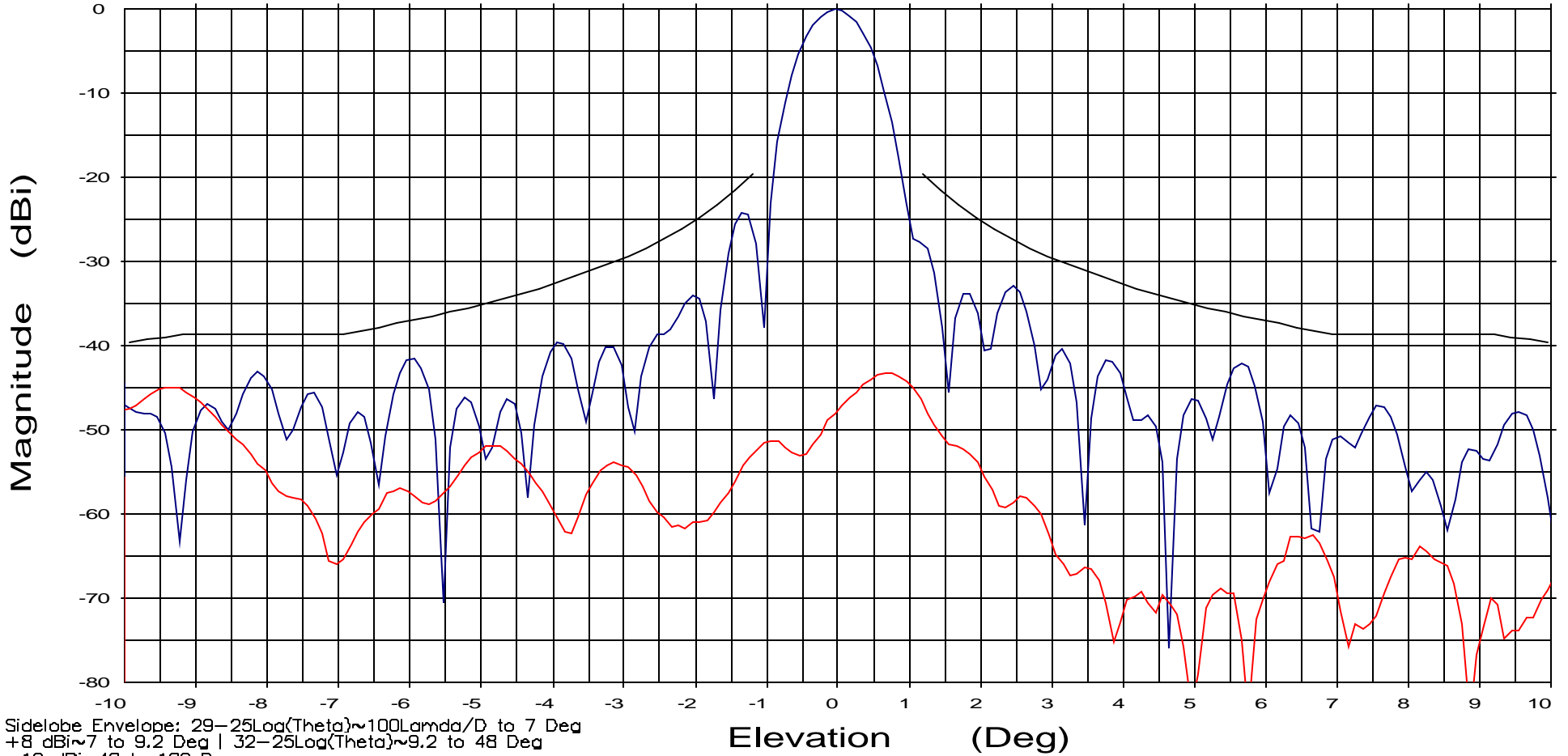
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.250 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
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-10 dBi ~ 48 to 180 Deg

Overlays

1459-22.dat-ant_under_test
1459-24.dat-ant_under_test

Cal. file

1459-22.dat
1459-24.dat

units

dBi
dBi

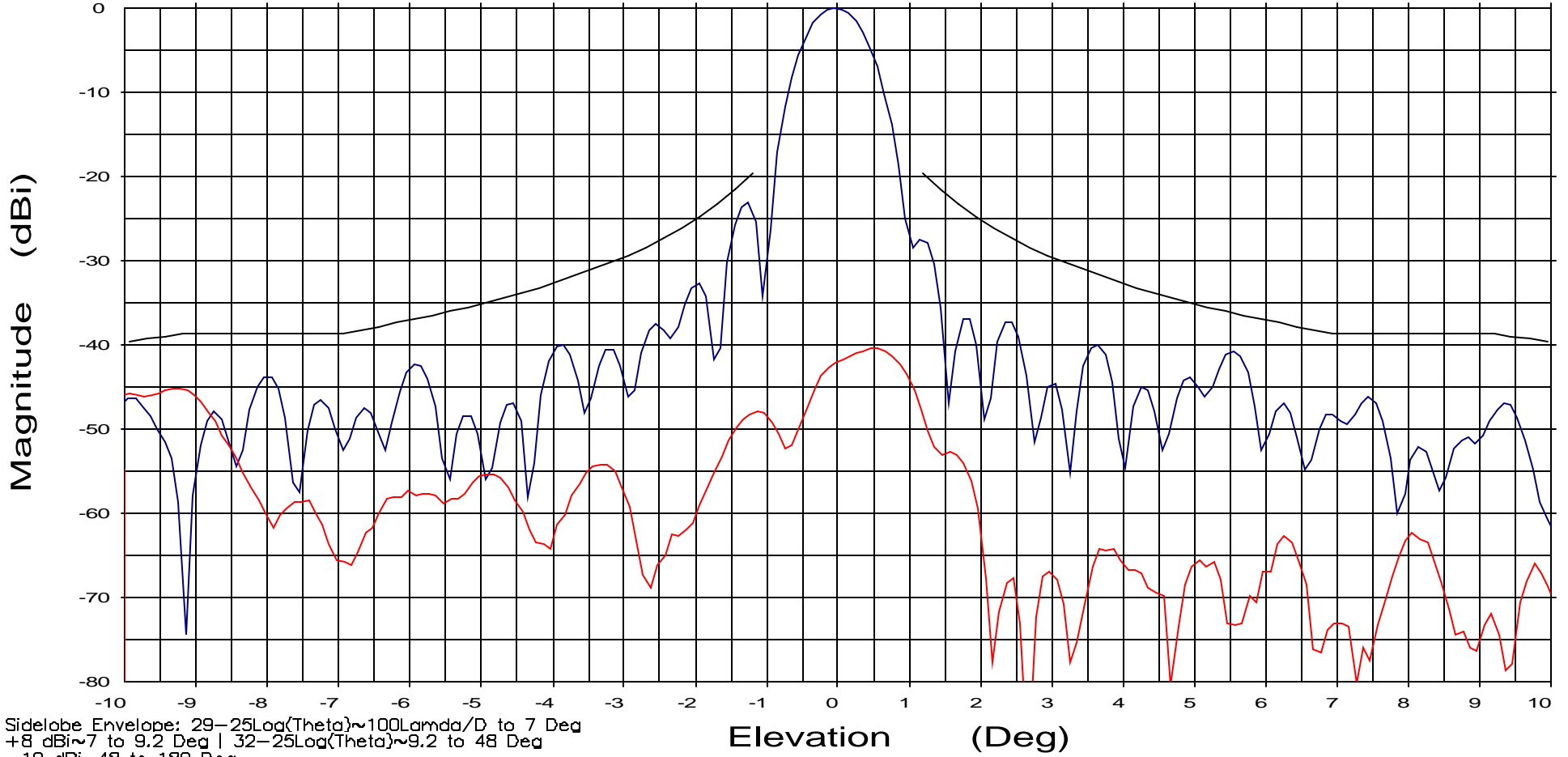
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.500 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

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Overlays

1459-22.dat-ant_under_test
1459-24.dat-ant_under_test

Cal. file

1459-22.dat
1459-24.dat

units

dBi
dBi

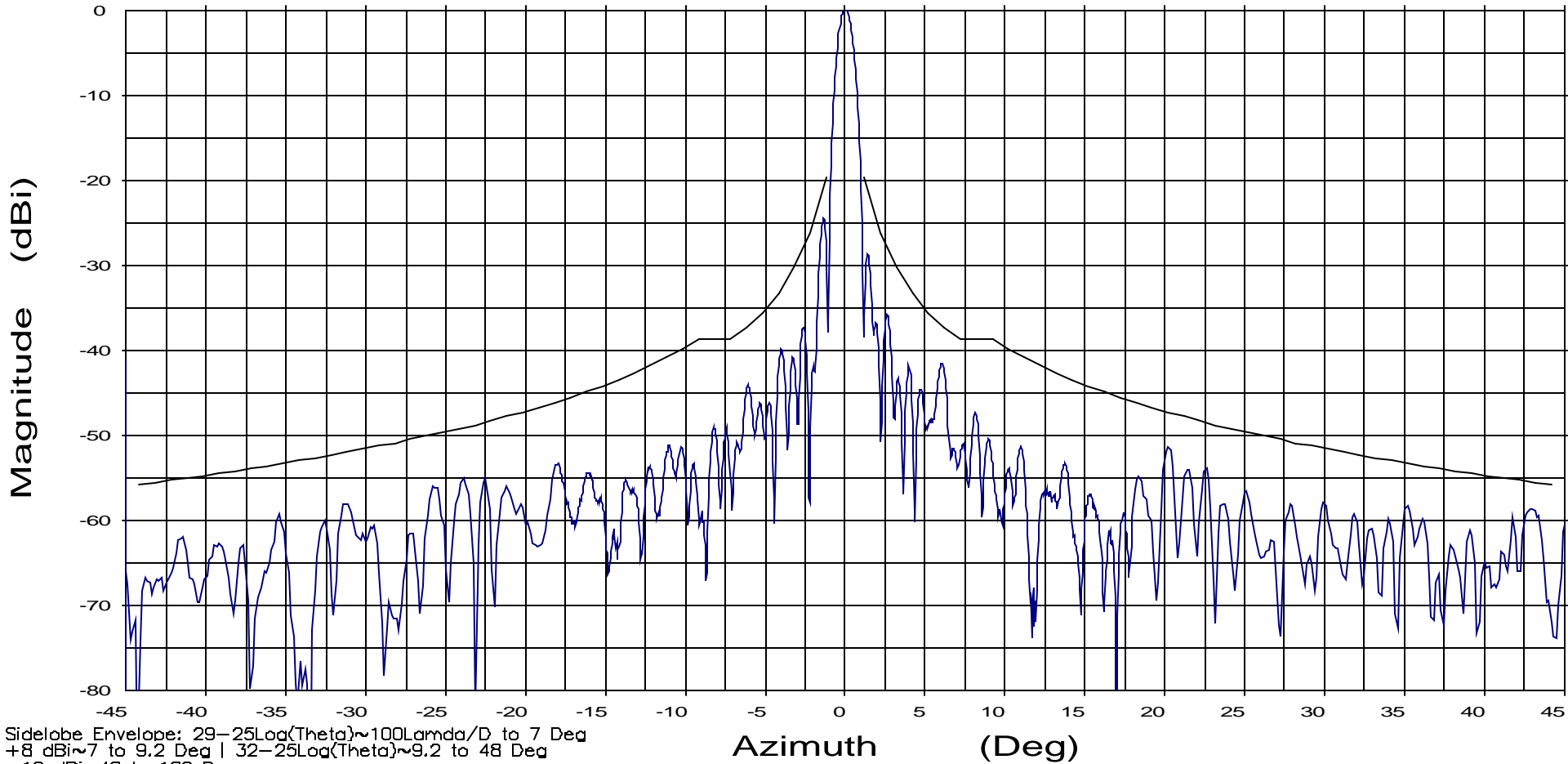
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 13.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
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-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test

Cal. file
1459-06.dat

units
dBi

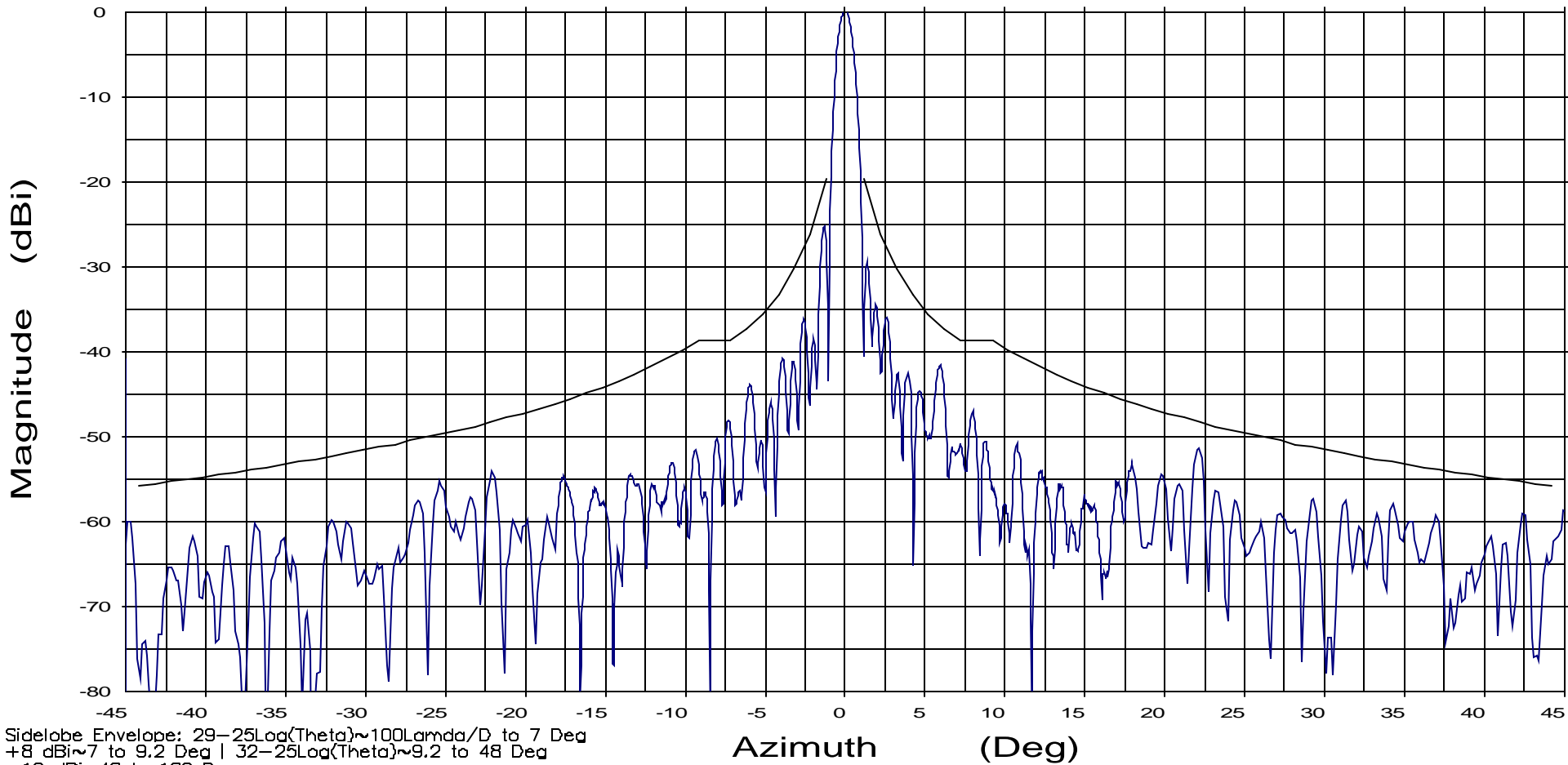
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.000 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: 29-25Log(Theta)~100Lambda/D 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
1459-06.dat-ant_under_test

Cal. file
1459-06.dat

units
dBi

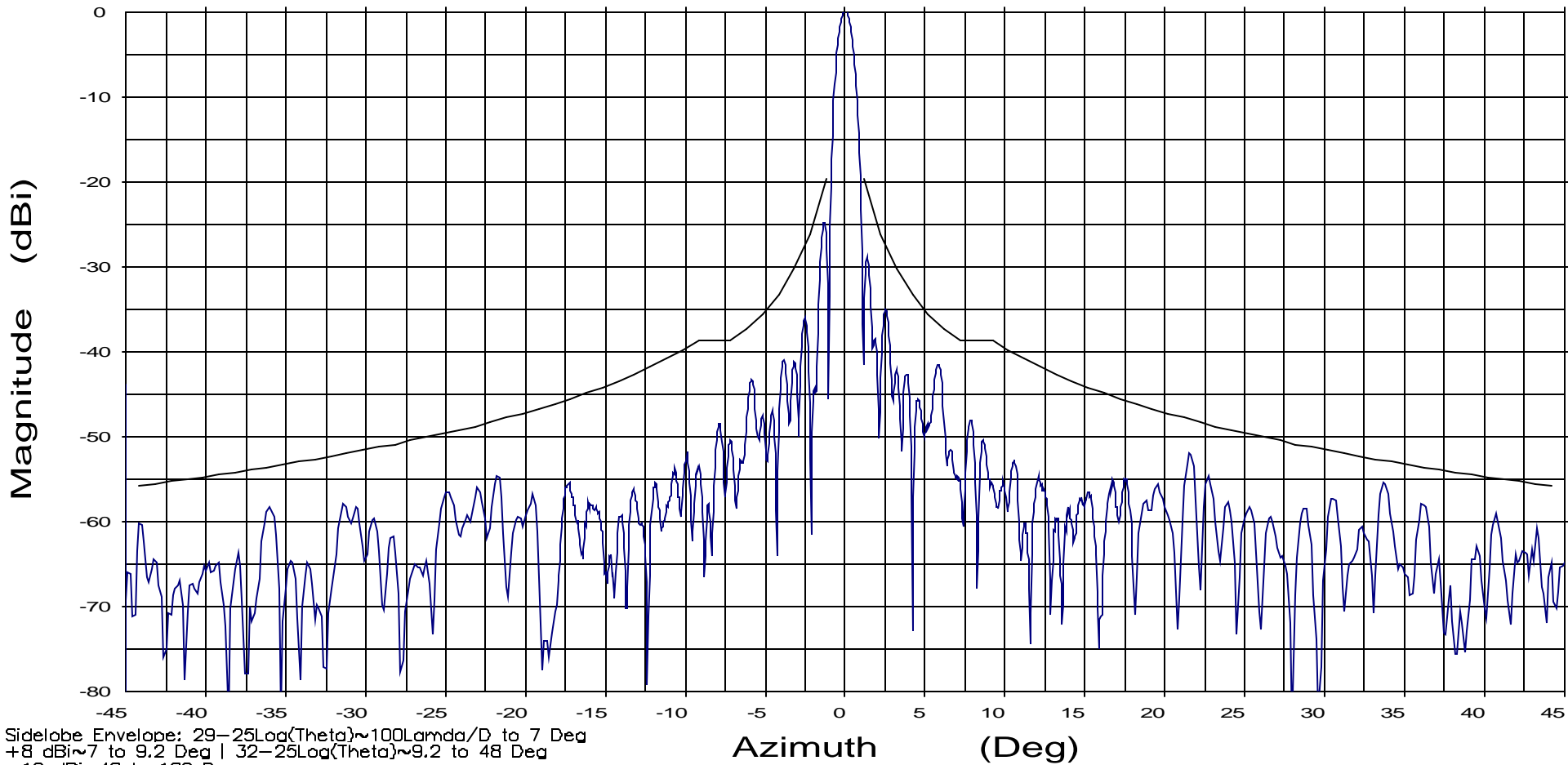
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.250 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test

Cal. file
1459-06.dat

units
dBi

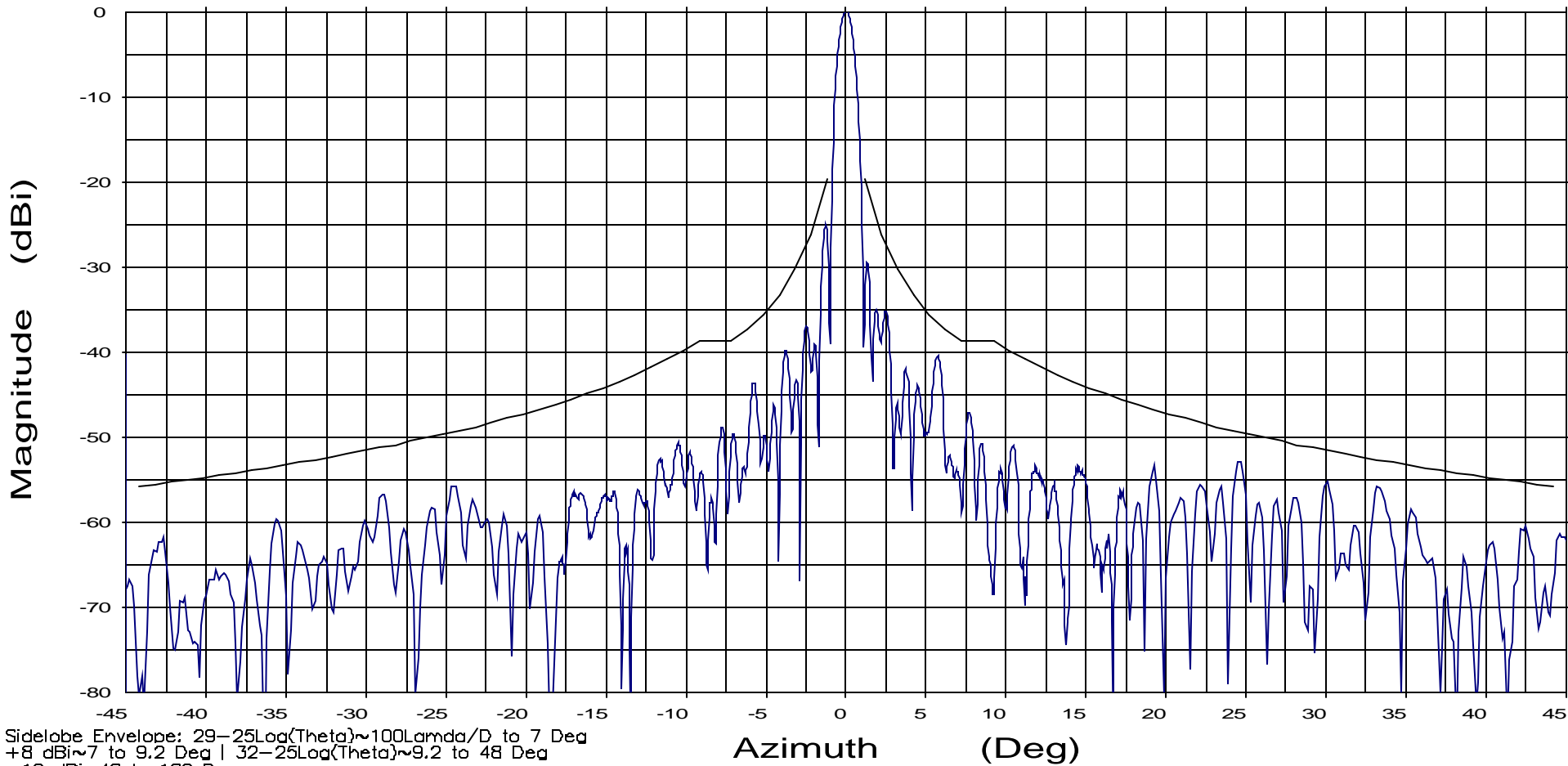
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.500 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda/D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test

Cal. file
1459-06.dat

units
dBi

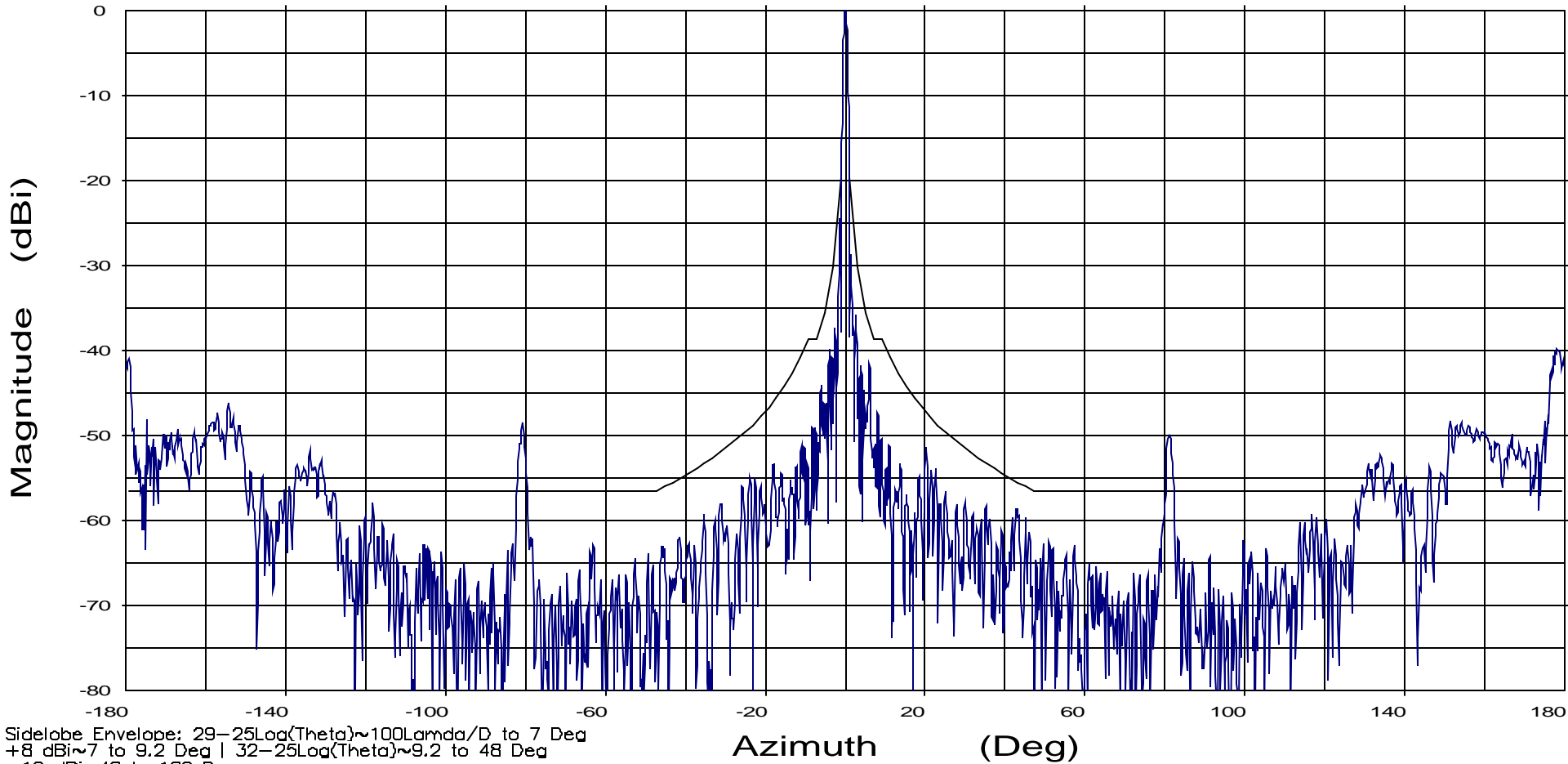
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 13.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test

Cal. file
1459-06.dat

units
dBi

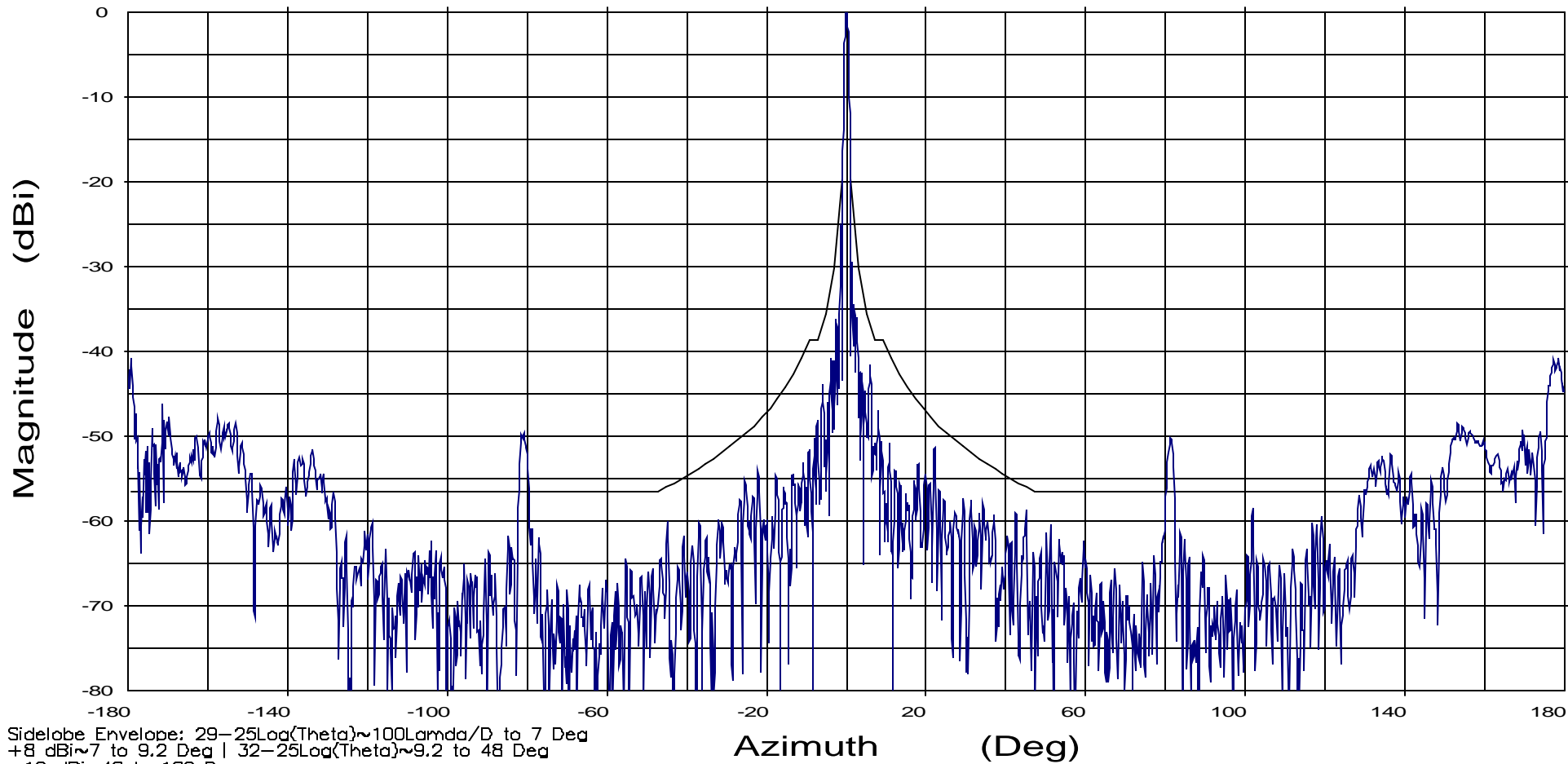
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.000 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



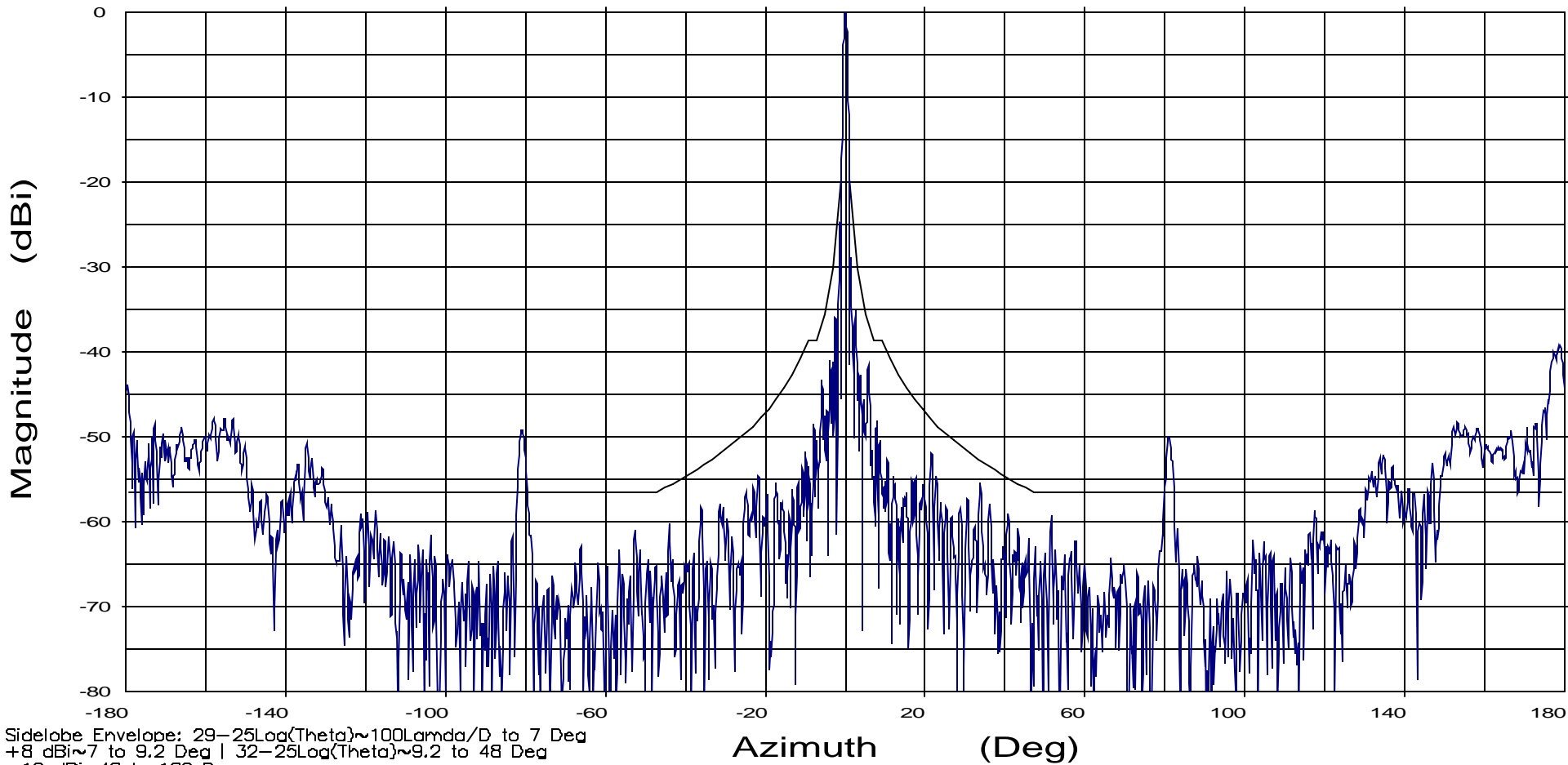
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.250 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test

Cal. file units
1459-06.dat dBi

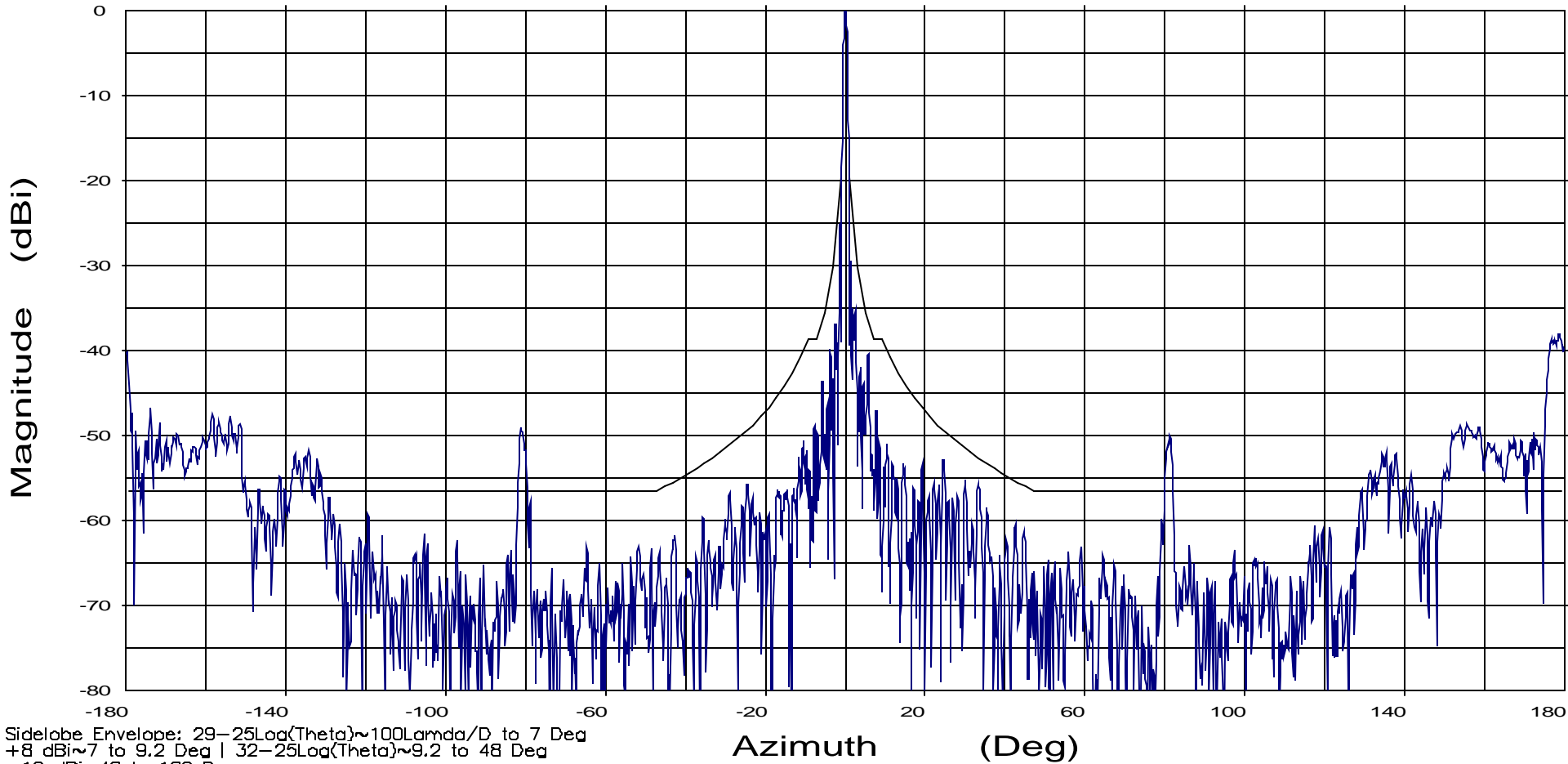
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.500 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays
1459-06.dat-ant_under_test

Cal. file
1459-06.dat

units
dBi

Section IV

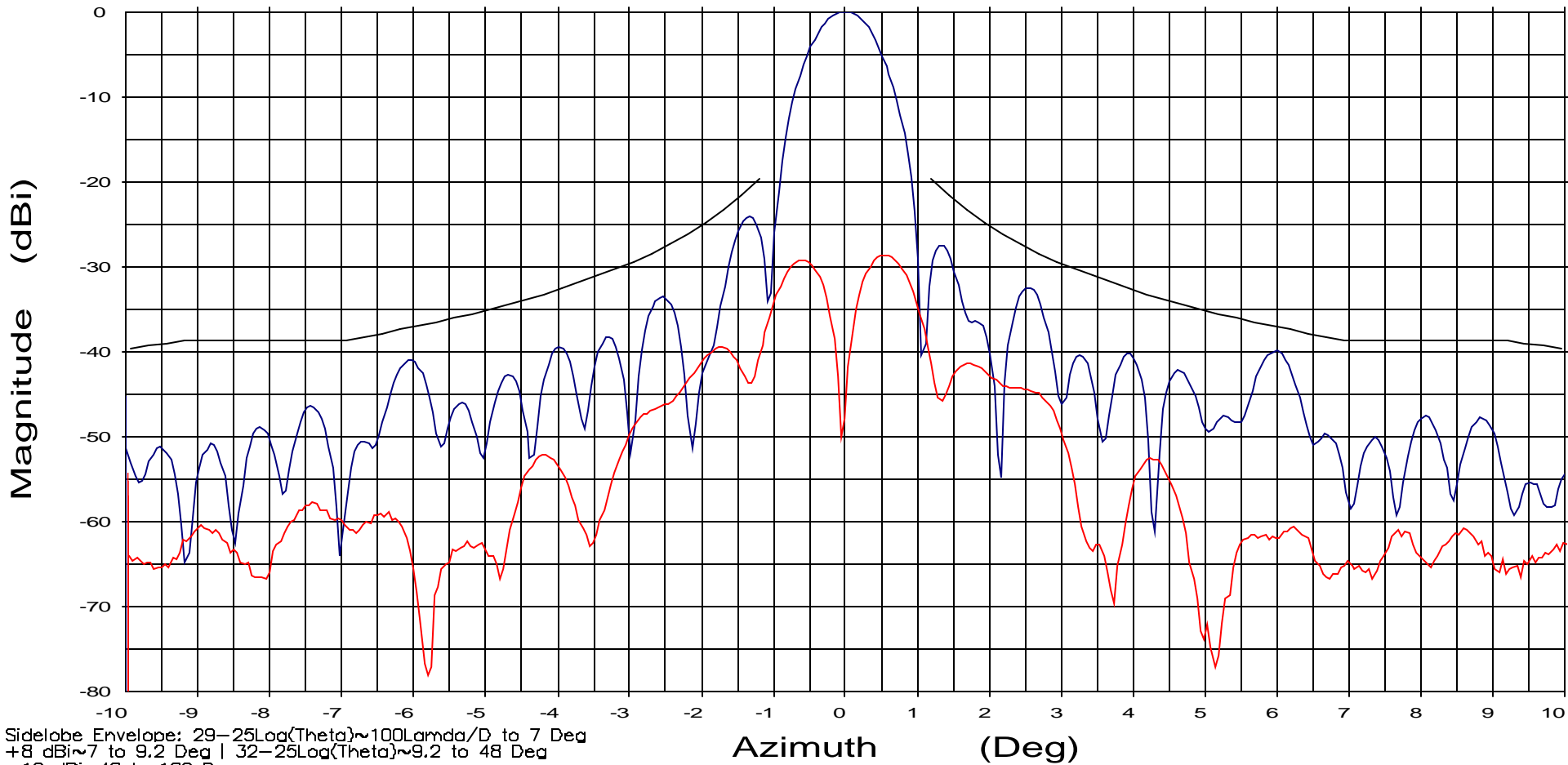
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 13.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-08.dat-ant_under_test	1459-08.dat	dBi
1459-09.dat-ant_under_test	1459-09.dat	dBi

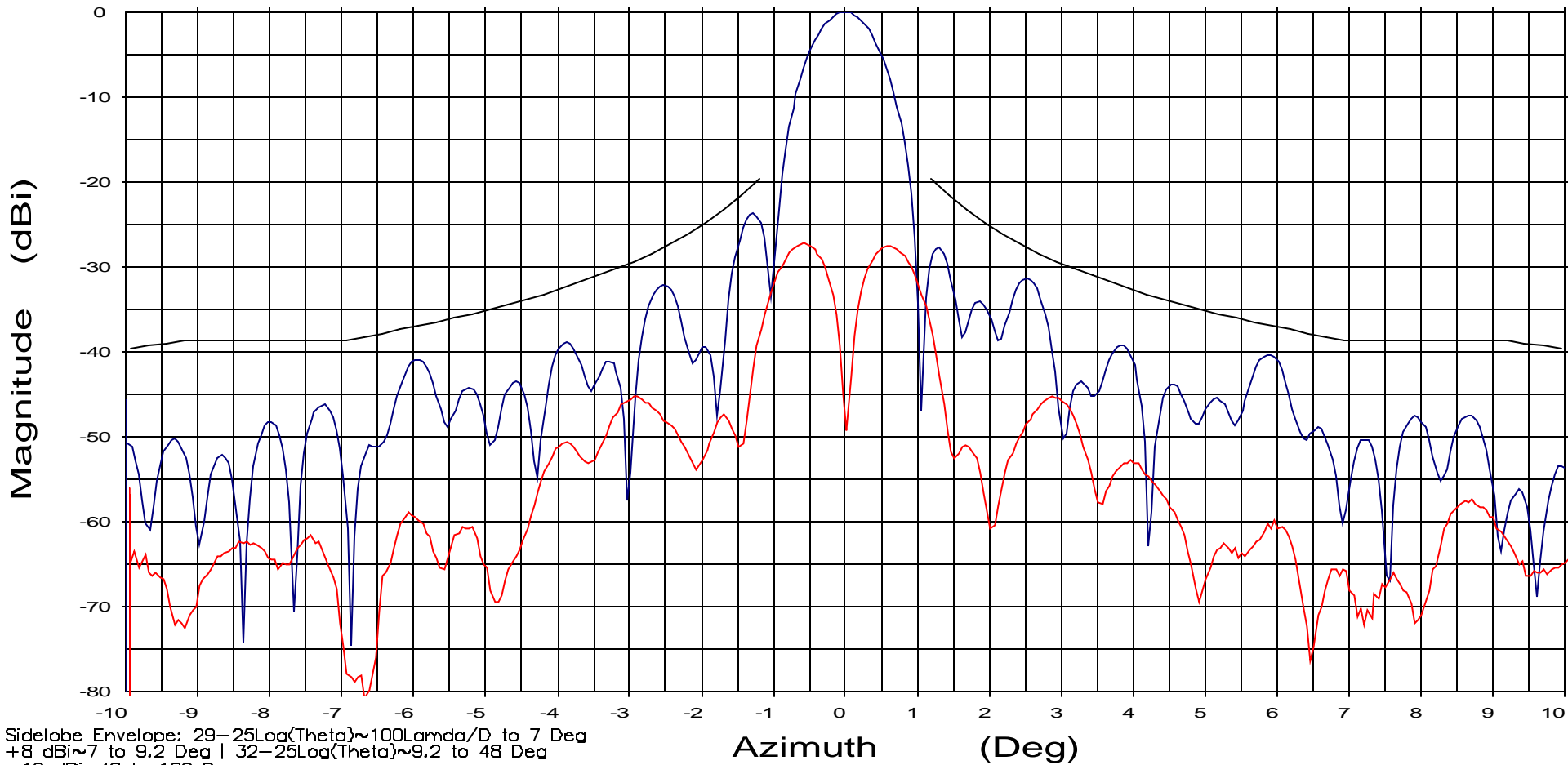
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.000 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays

1459-08.dat-ant_under_test
1459-09.dat-ant_under_test

Cal. file

1459-08.dat
1459-09.dat

units

dBi
dBi

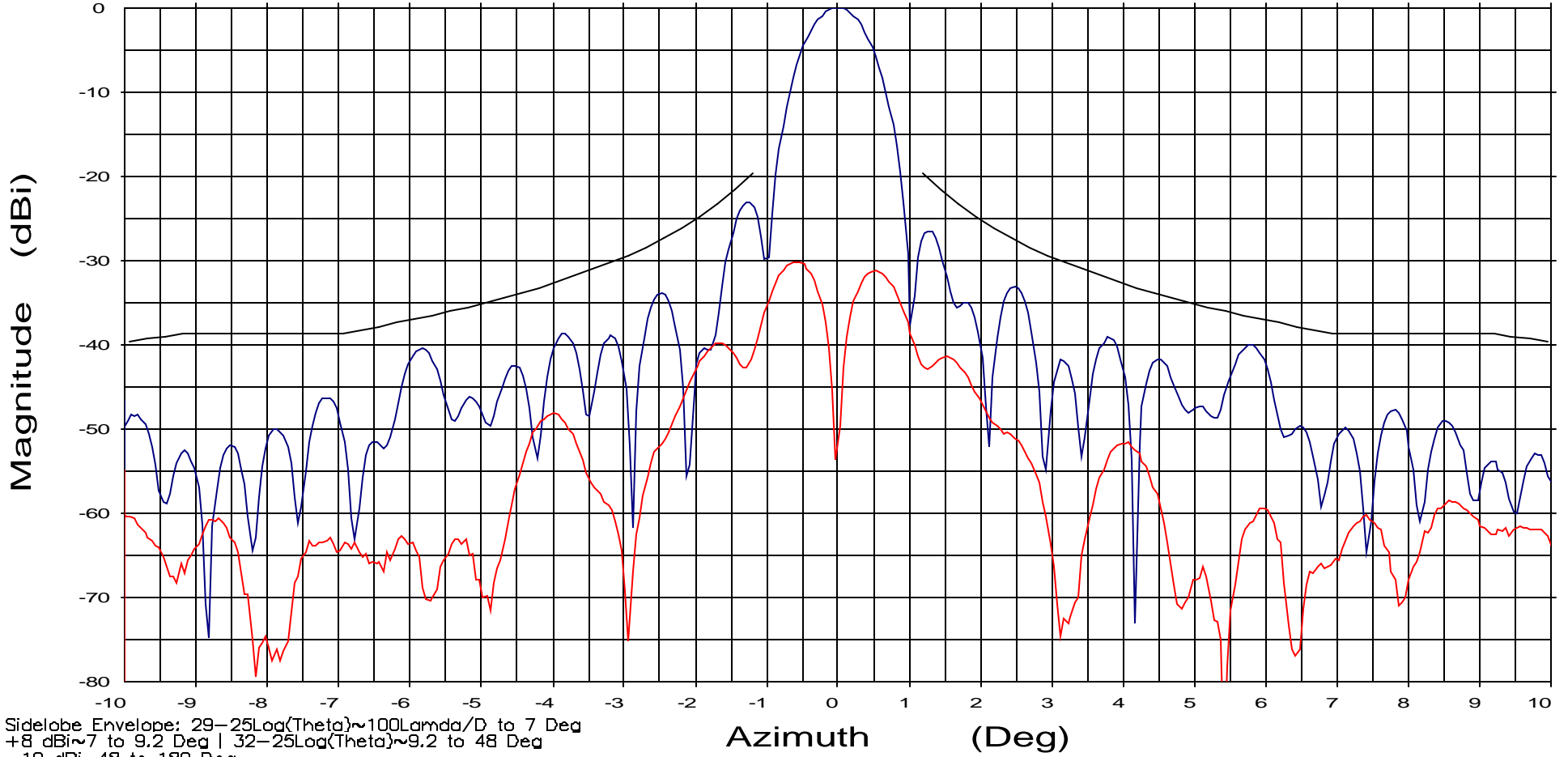
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.250 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-08.dat-ant_under_test	1459-08.dat	dBi
1459-09.dat-ant_under_test	1459-09.dat	dBi

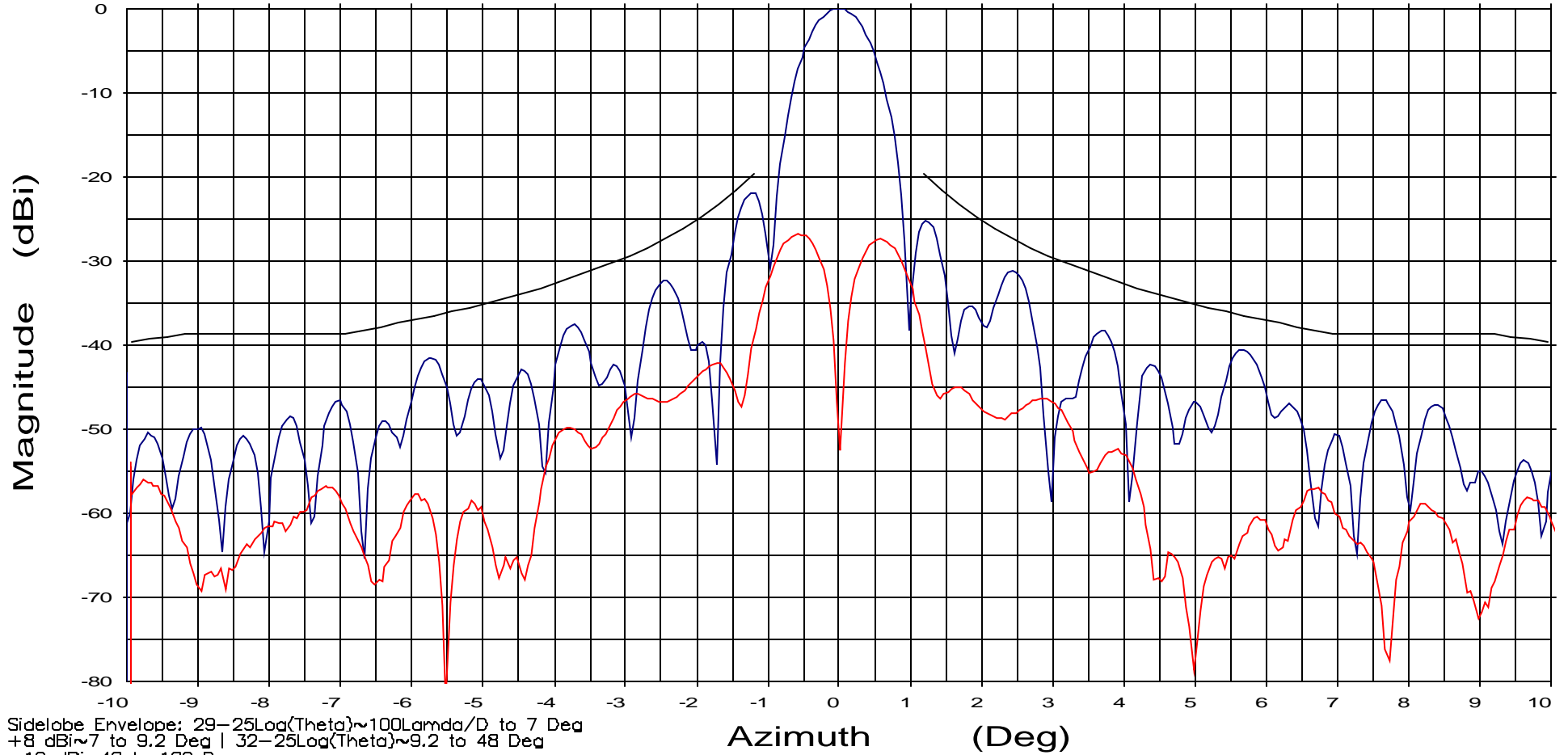
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.500 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-08.dat-ant_under_test	1459-08.dat	dBi
1459-09.dat-ant_under_test	1459-09.dat	dBi

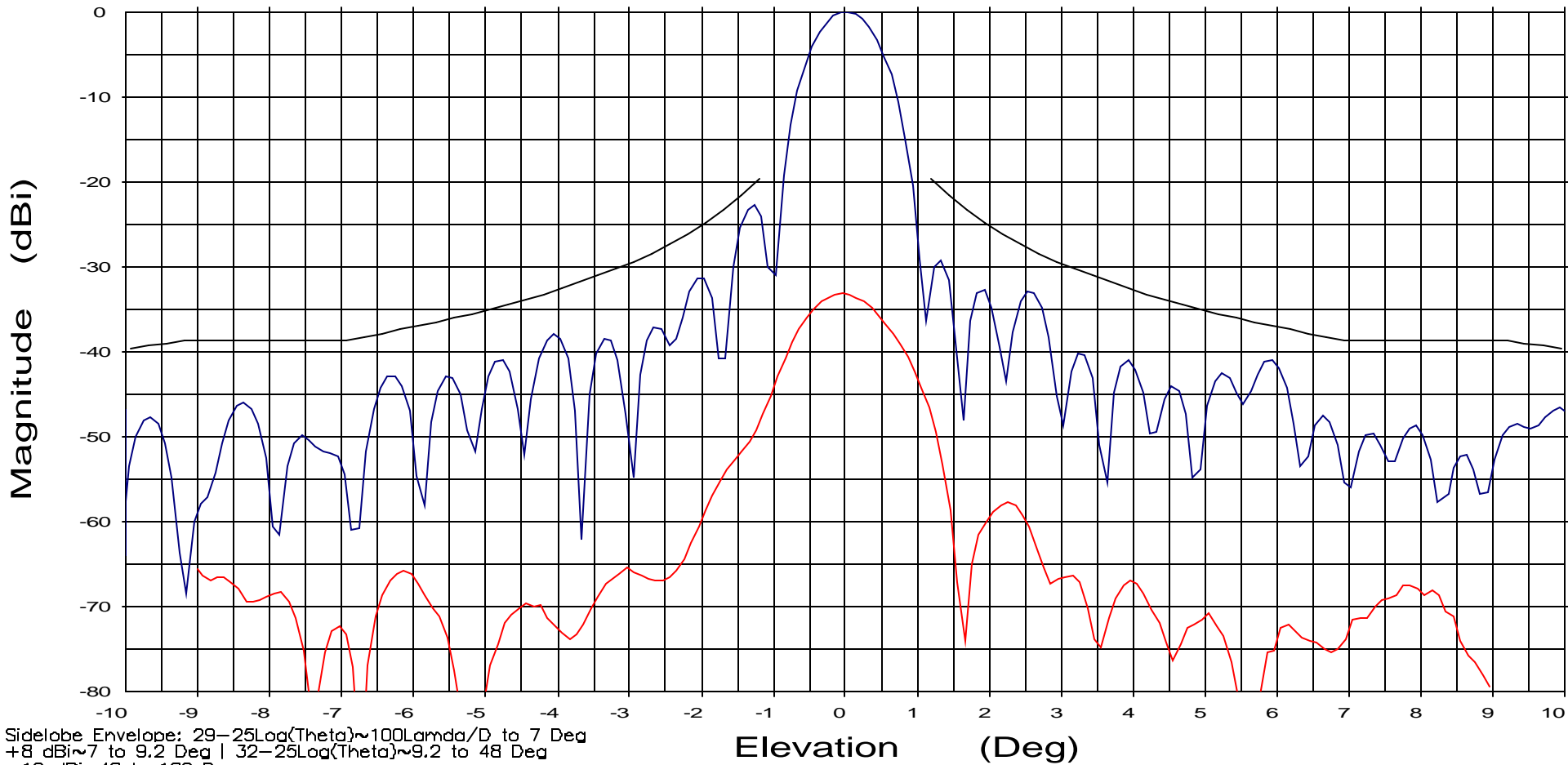
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 13.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-17.dat-ant_under_test	1459-17.dat	dBi
1459-20.dat-ant_under_test	1459-20.dat	dBi

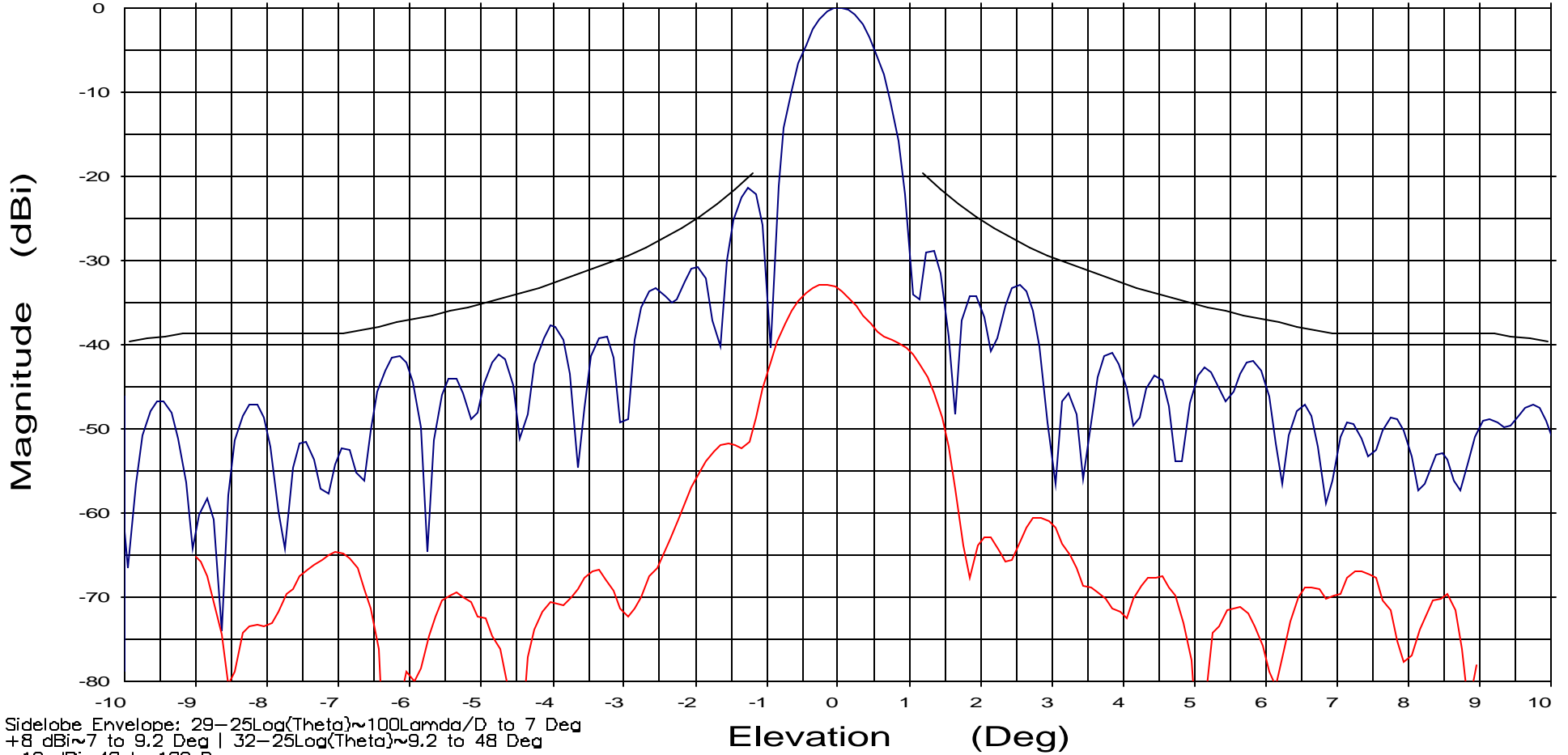
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.000 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays

1459-17.dat-ant_under_test
1459-20.dat-ant_under_test

Cal. file

1459-17.dat
1459-20.dat

units

dBi
dBi

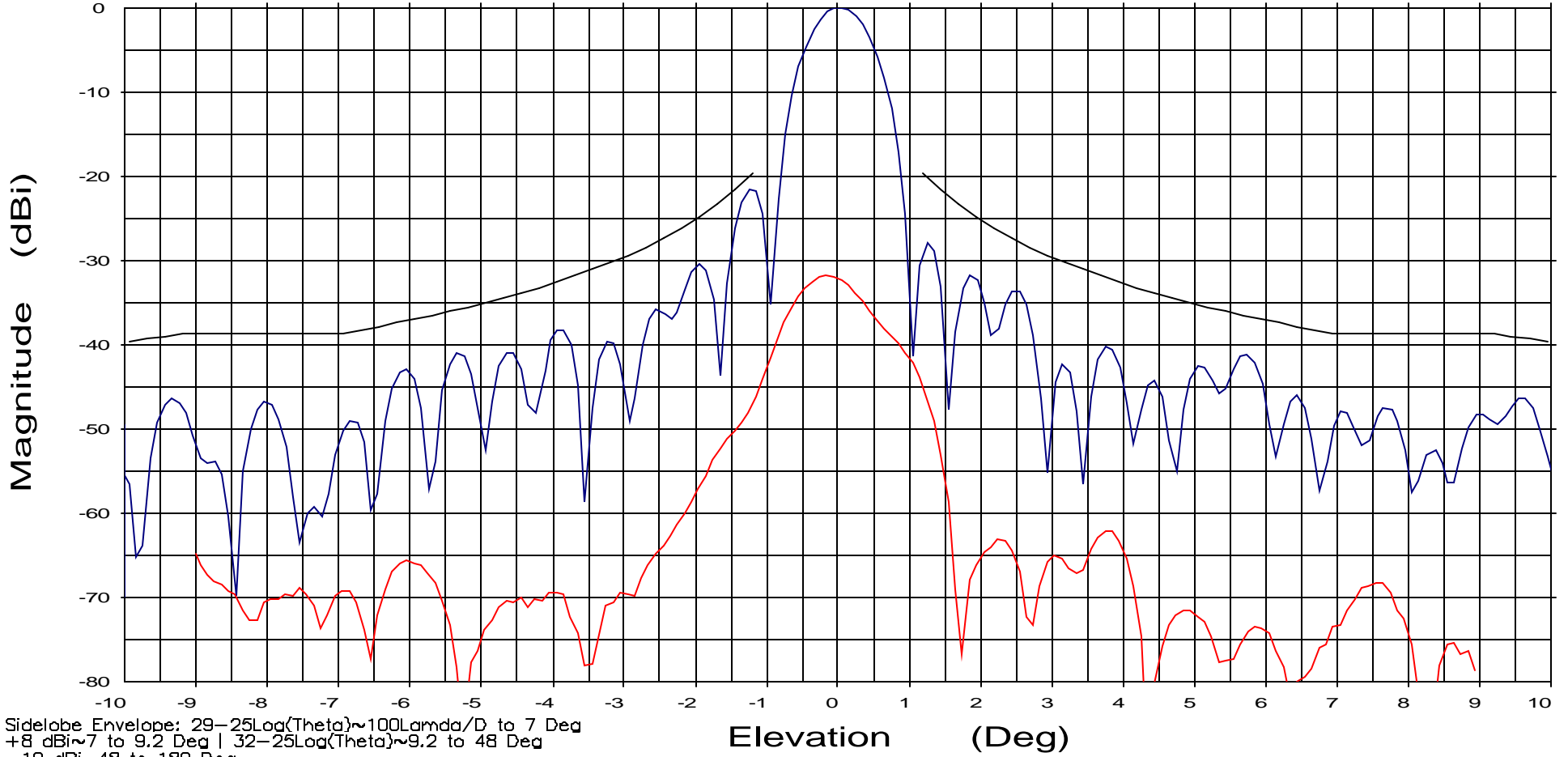
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.250 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays
1459-17.dat-ant_under_test
1459-20.dat-ant_under_test

Cal. file
1459-17.dat
1459-20.dat

units
dBi
dBi

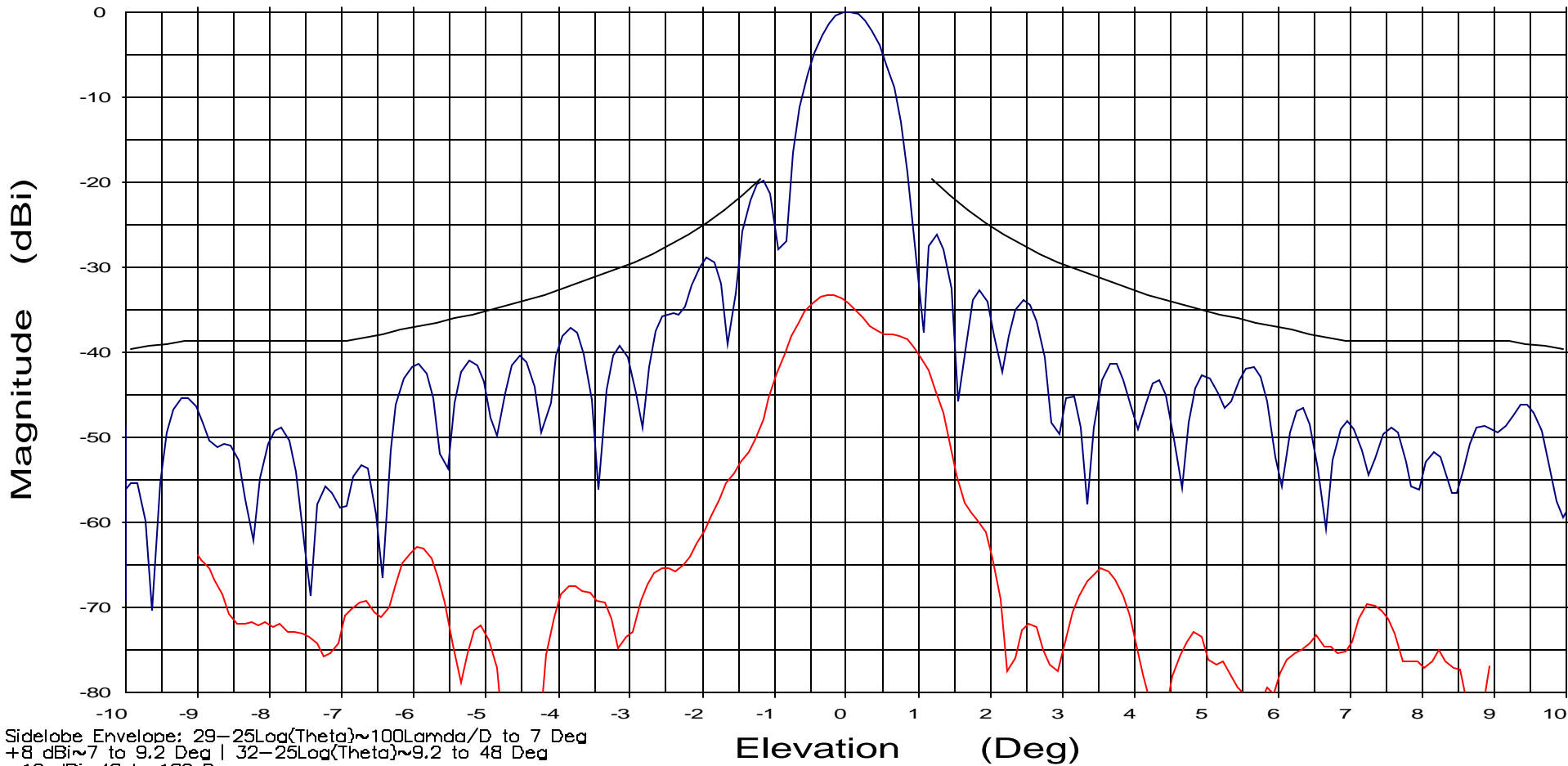
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.500 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays
1459-17.dat-ant_under_test
1459-20.dat-ant_under_test

Cal. file	units
1459-17.dat	dBi
1459-20.dat	dBi

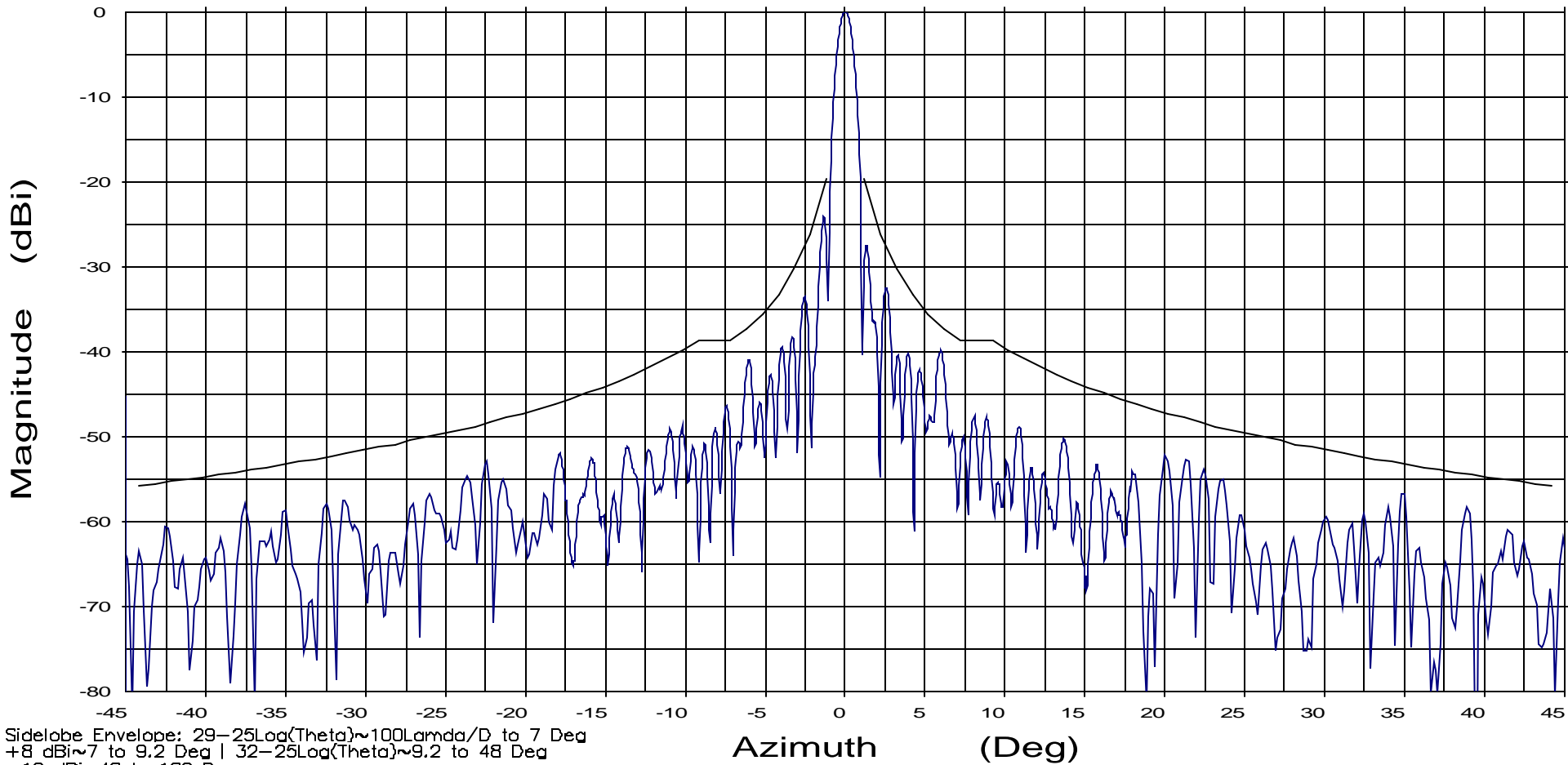
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 13.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file
1459-08.dat

units
dBi

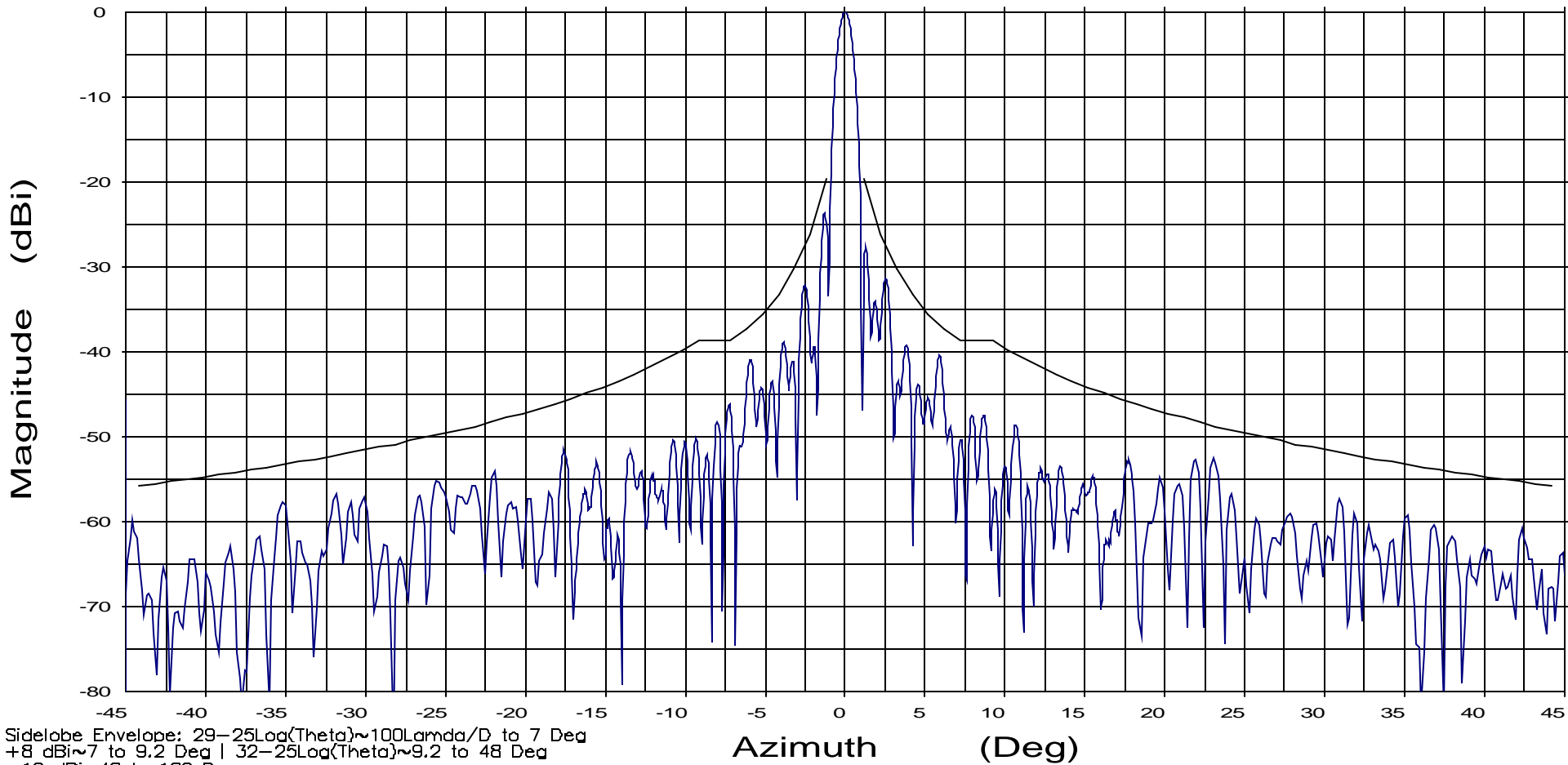
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.000 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
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Overlays
1459-08.dat-ant_under_test

Cal. file
1459-08.dat

units
dBi

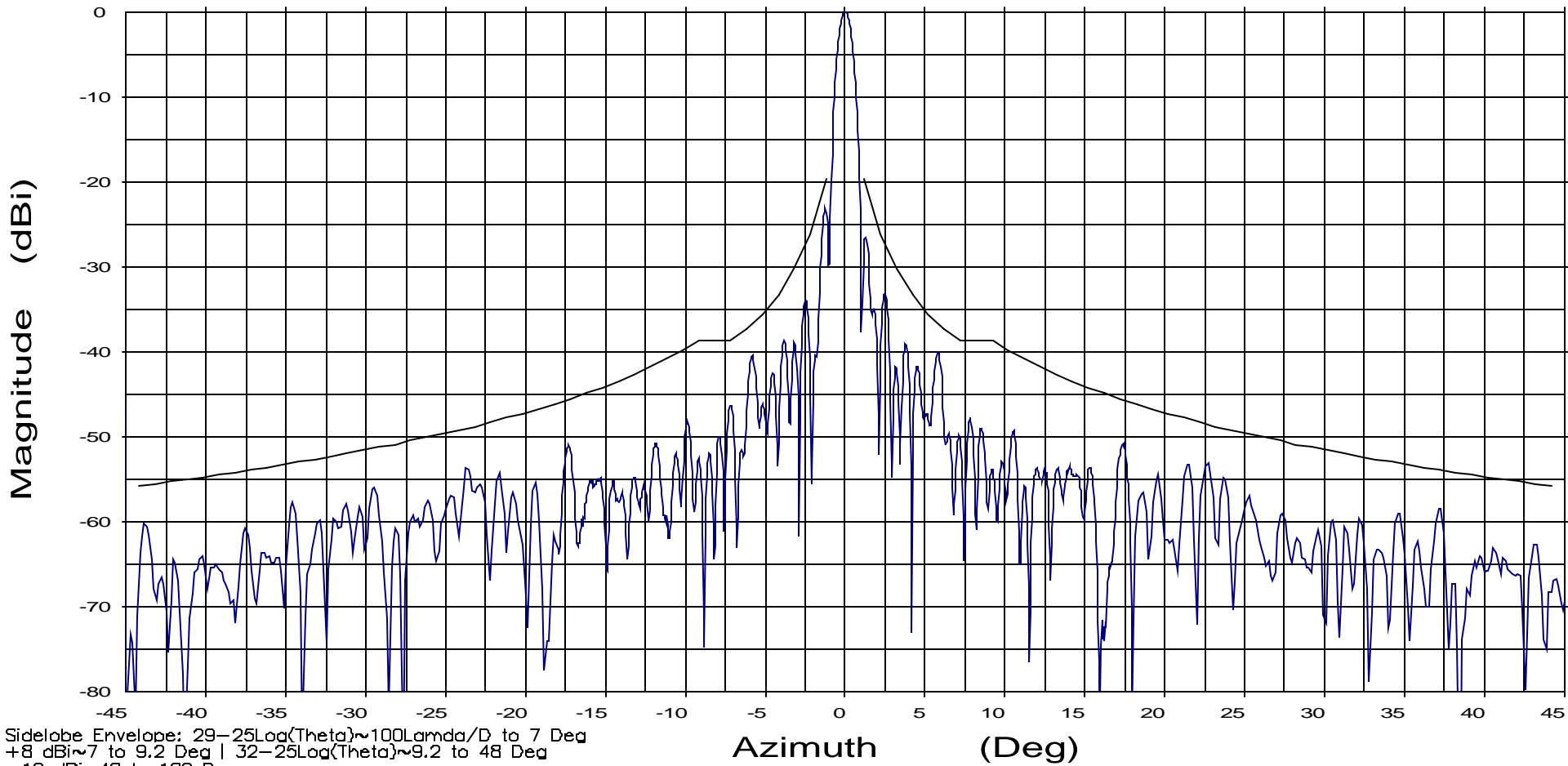
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.250 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



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-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file units
1459-08.dat dBi

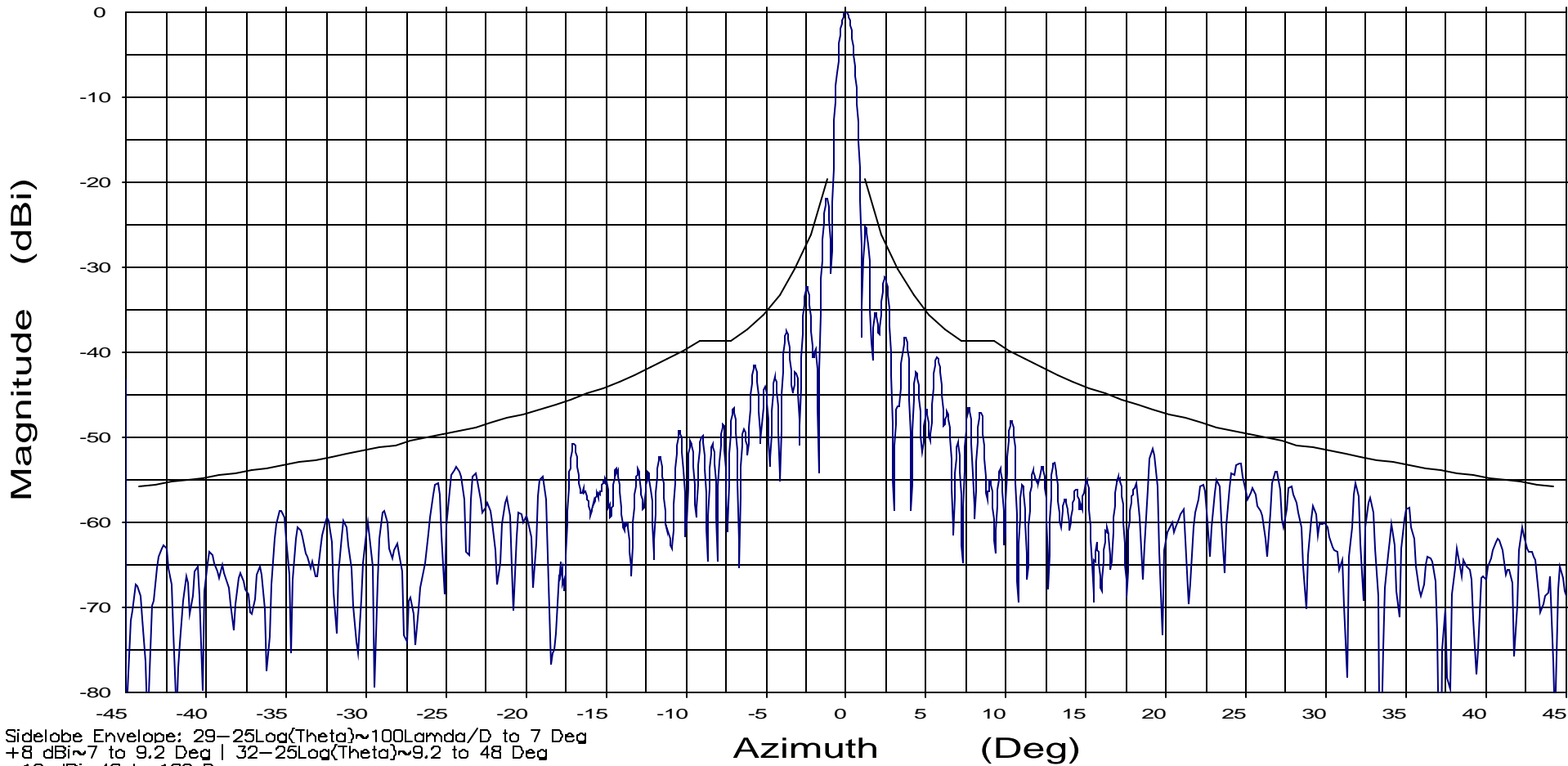
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SERIES 1194
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Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file
1459-08.dat

units
dBi

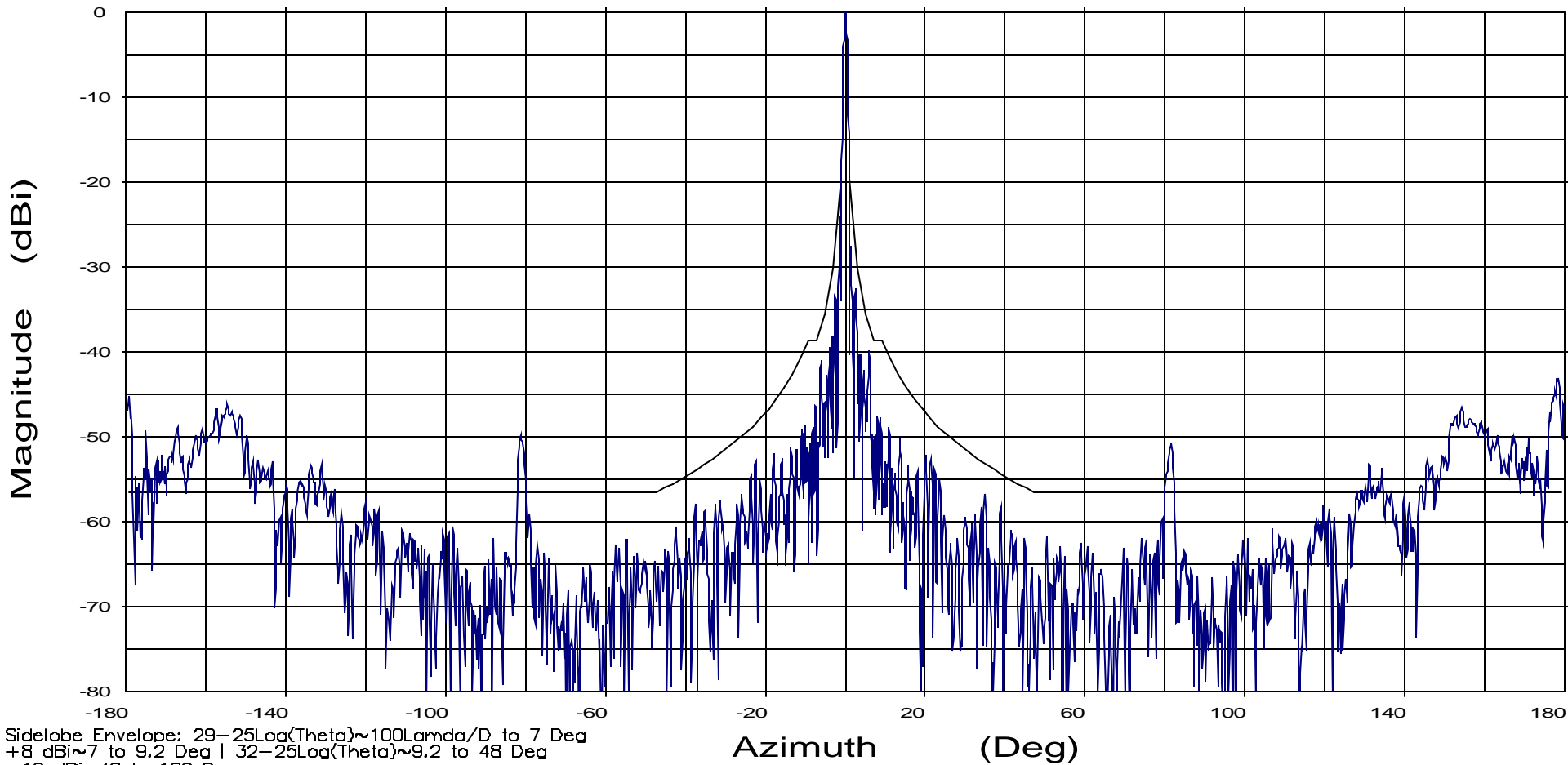
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 13.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file units
1459-08.dat dBi

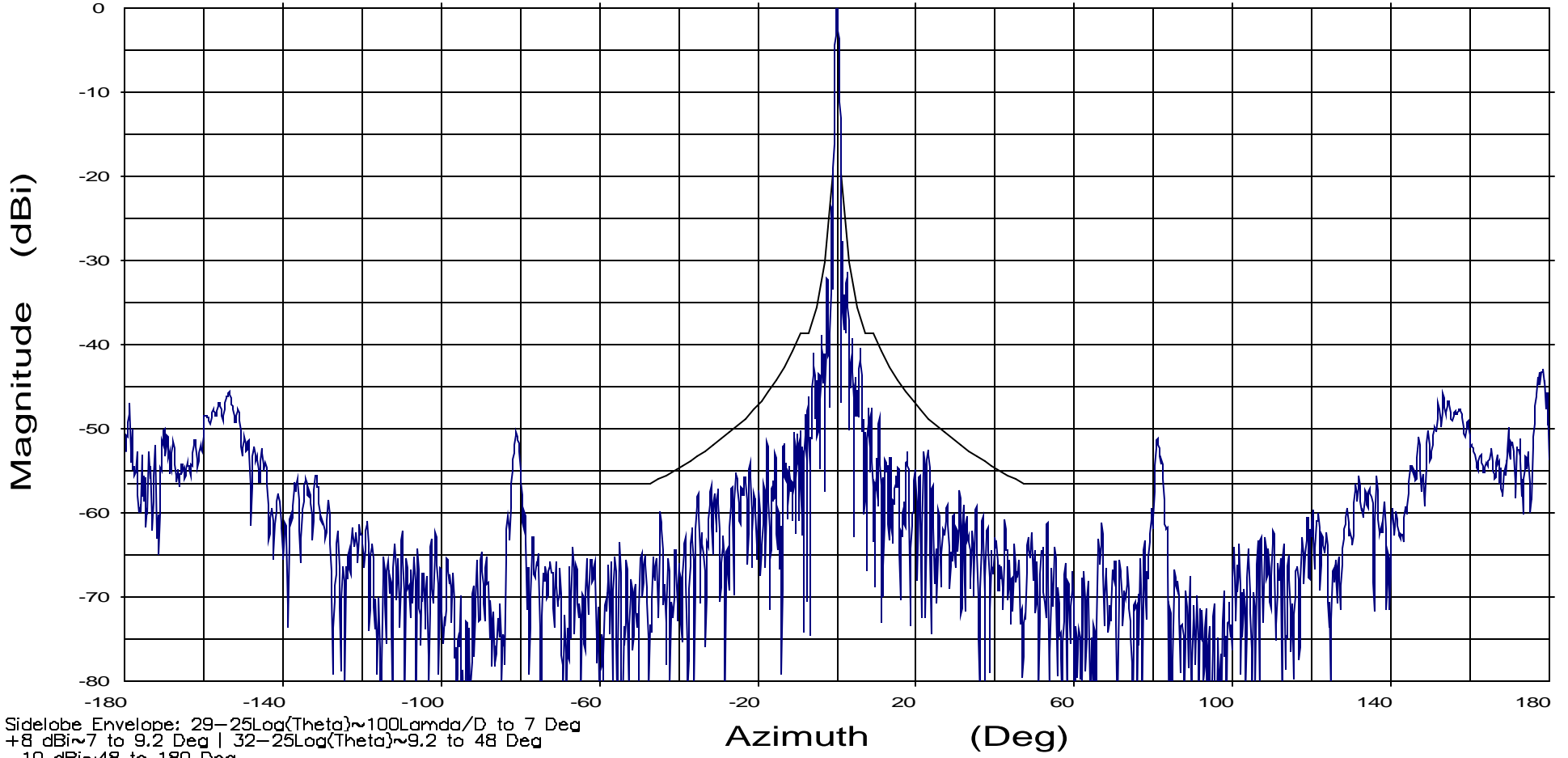
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.000 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file units
1459-08.dat dBi

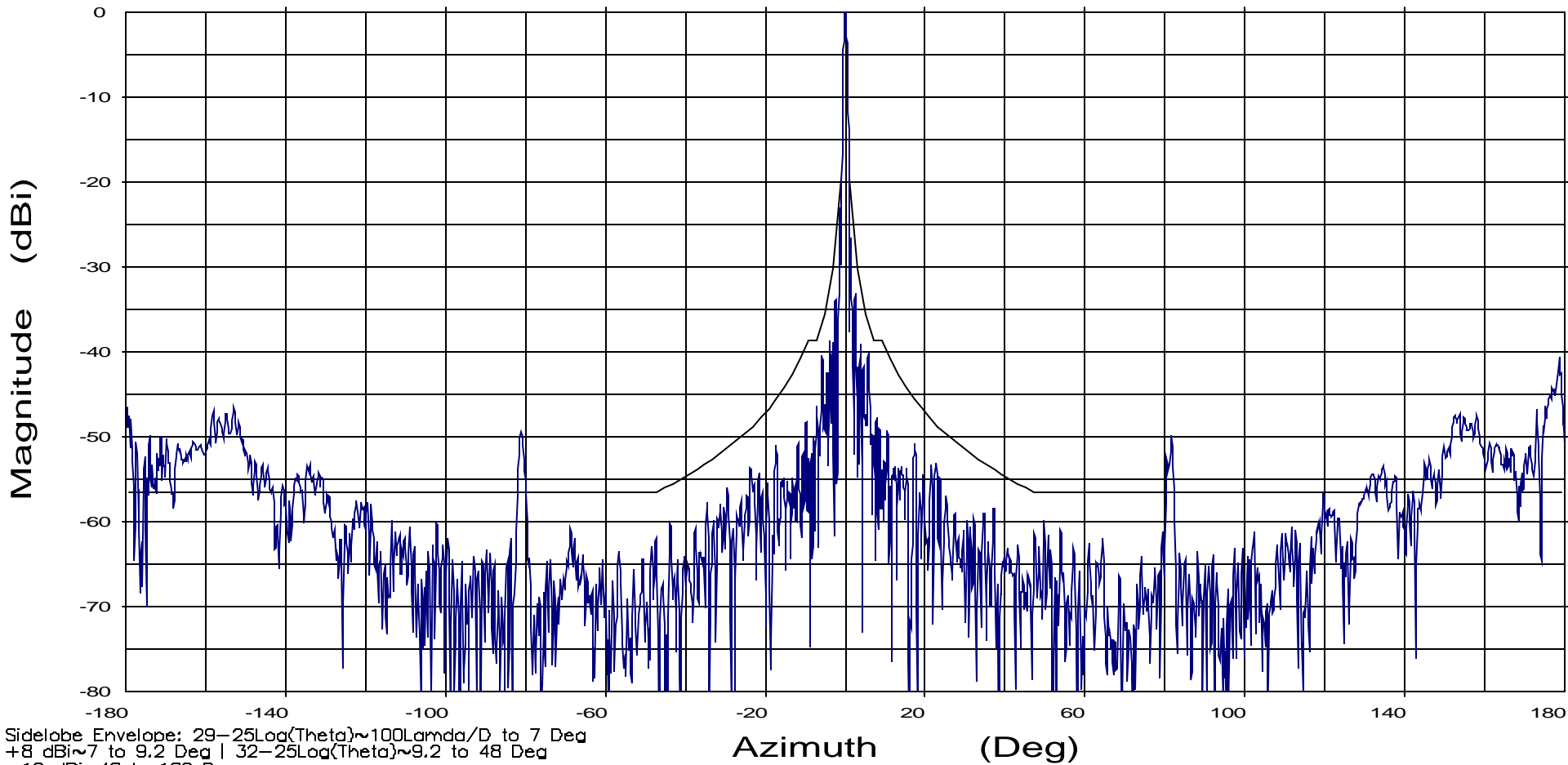
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.250 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file units
1459-08.dat dBi

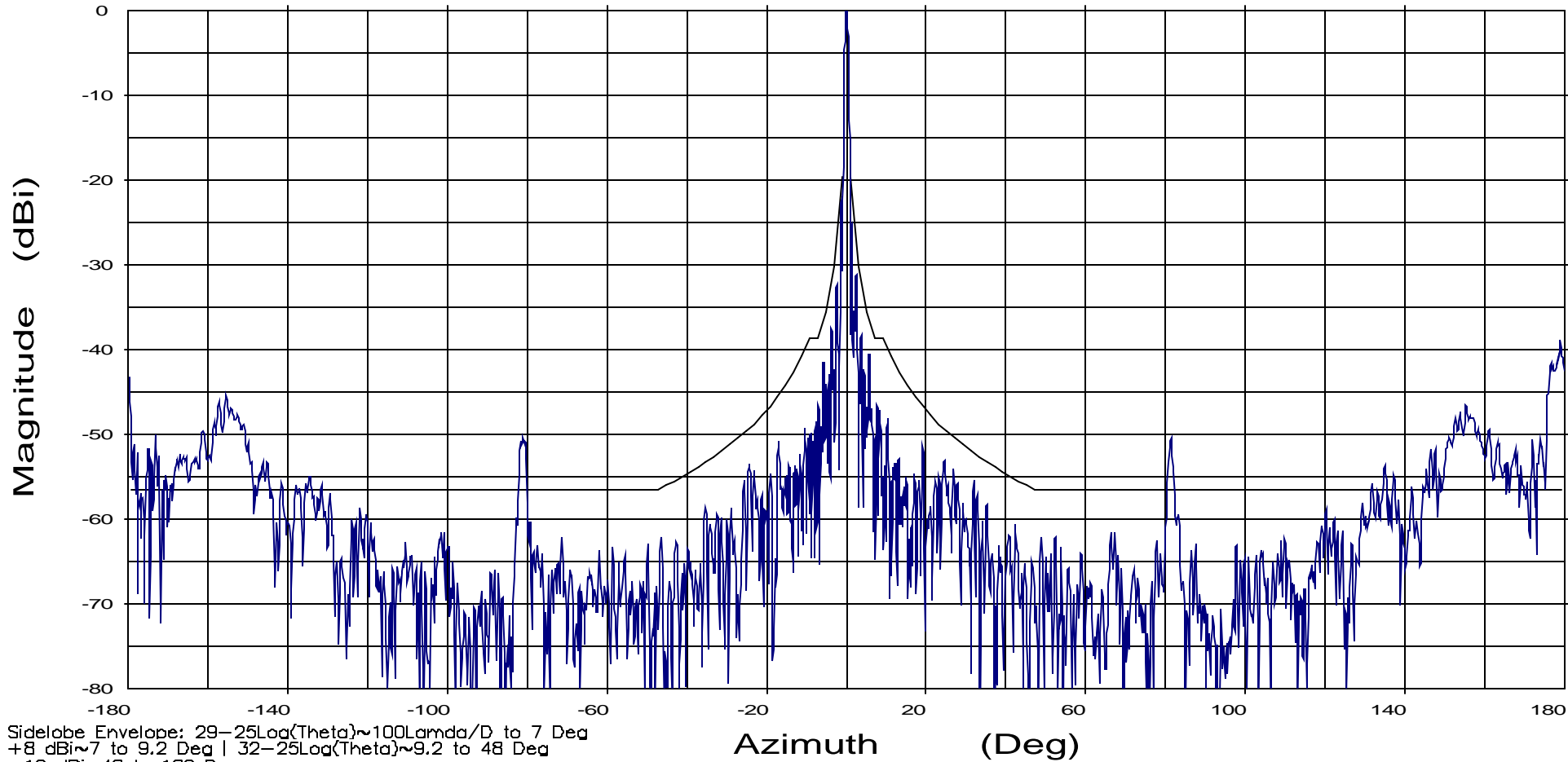
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 14.500 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file units
1459-08.dat dBi

Section V

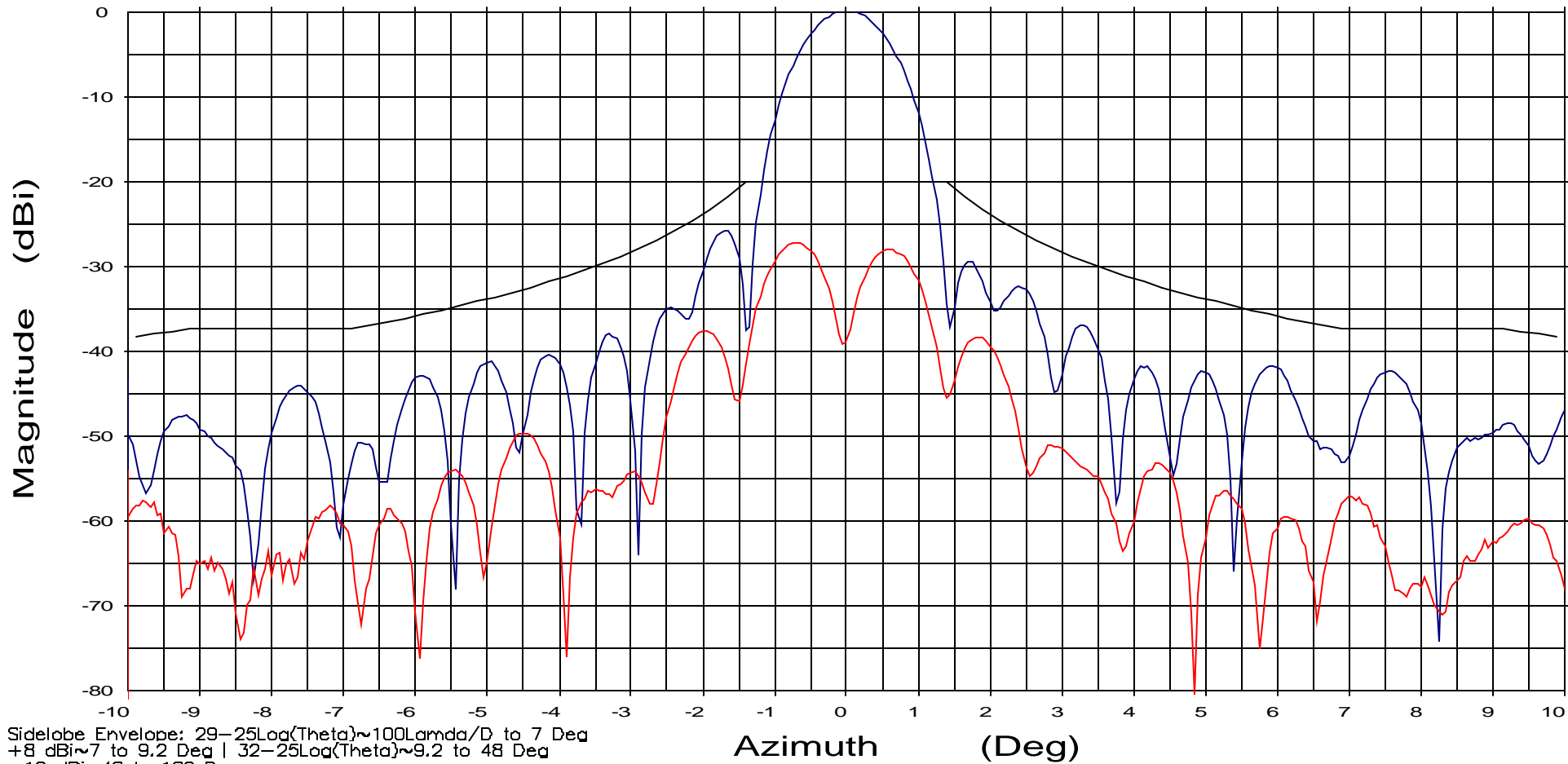
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 10.950 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-06.dat-ant_under_test	1459-06.dat	dBi
1459-07.dat-ant_under_test	1459-07.dat	dBi

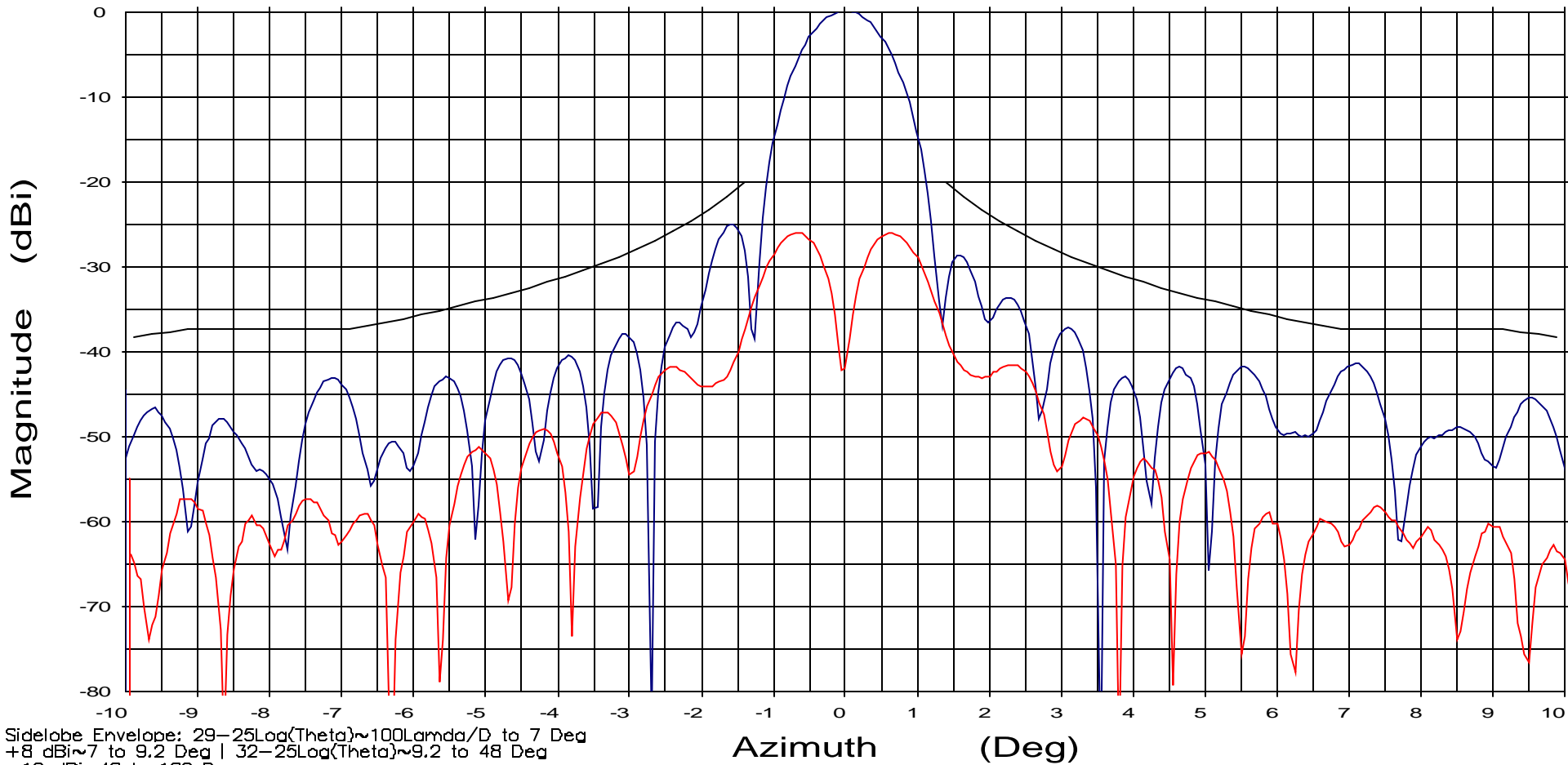
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 11.700 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test
1459-07.dat-ant_under_test

Cal. file	units
1459-06.dat	dBi
1459-07.dat	dBi

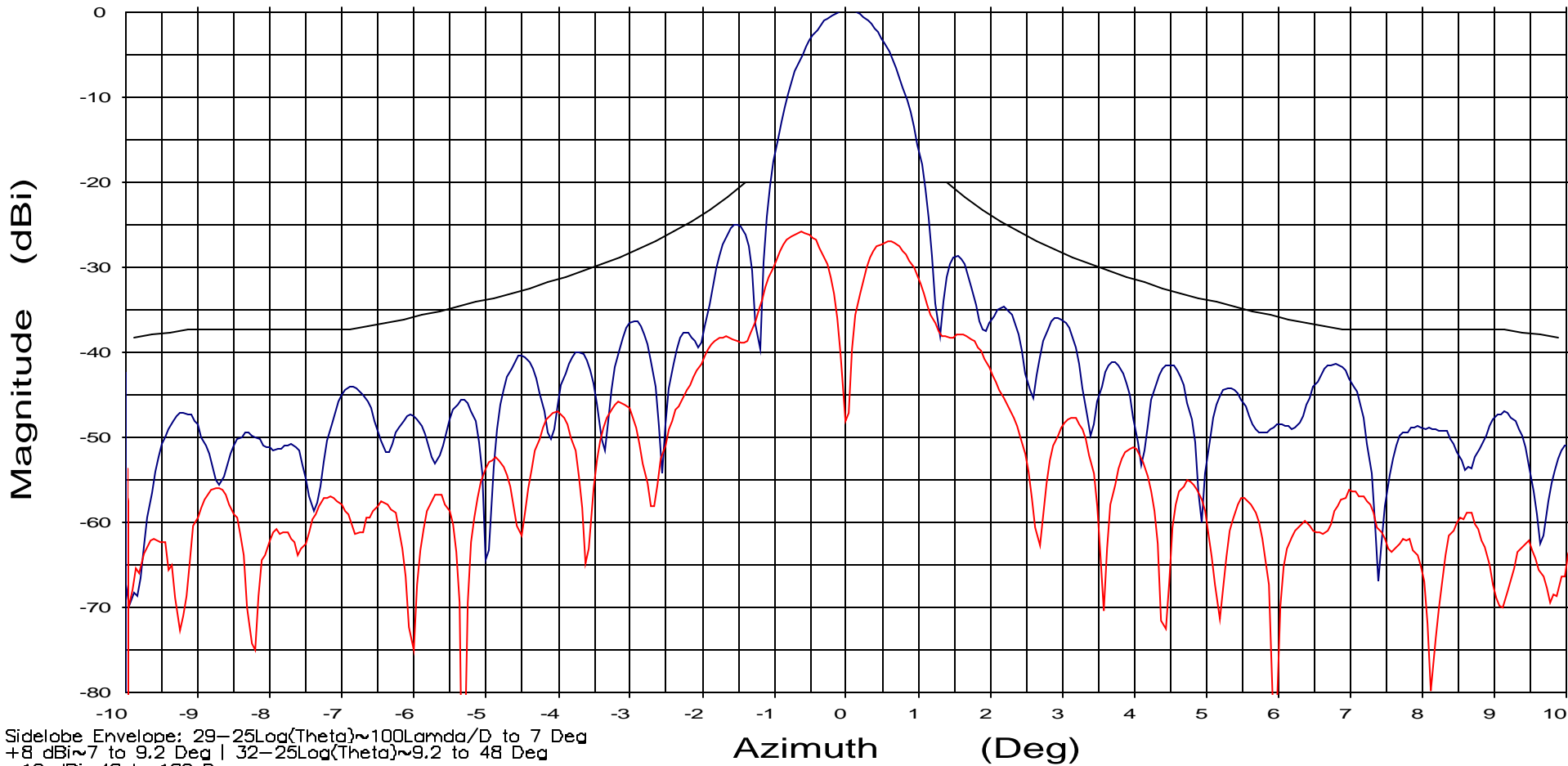
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.200 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-06.dat-ant_under_test	1459-06.dat	dBi
1459-07.dat-ant_under_test	1459-07.dat	dBi

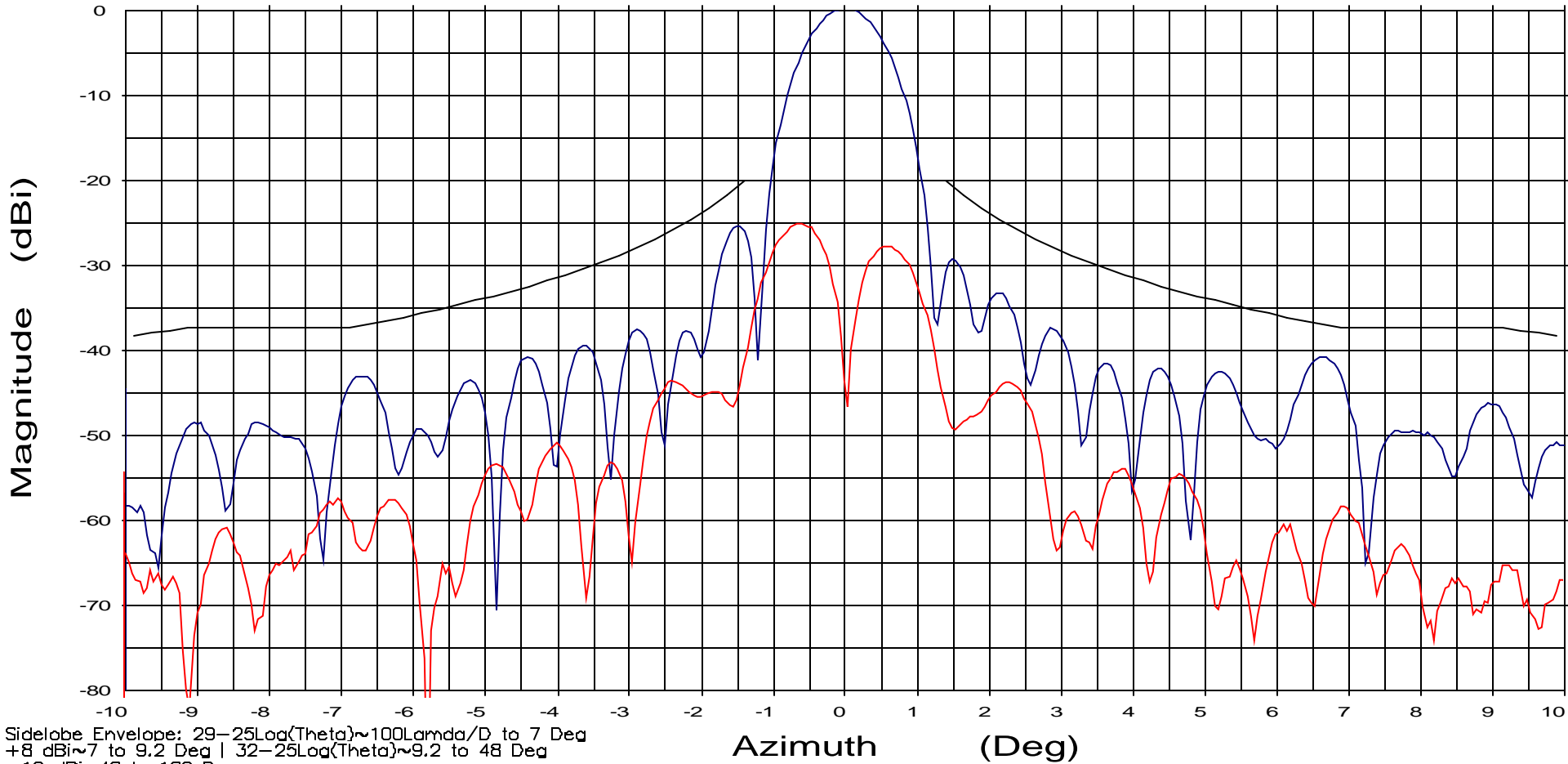
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.450 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-06.dat-ant_under_test	1459-06.dat	dBi
1459-07.dat-ant_under_test	1459-07.dat	dBi

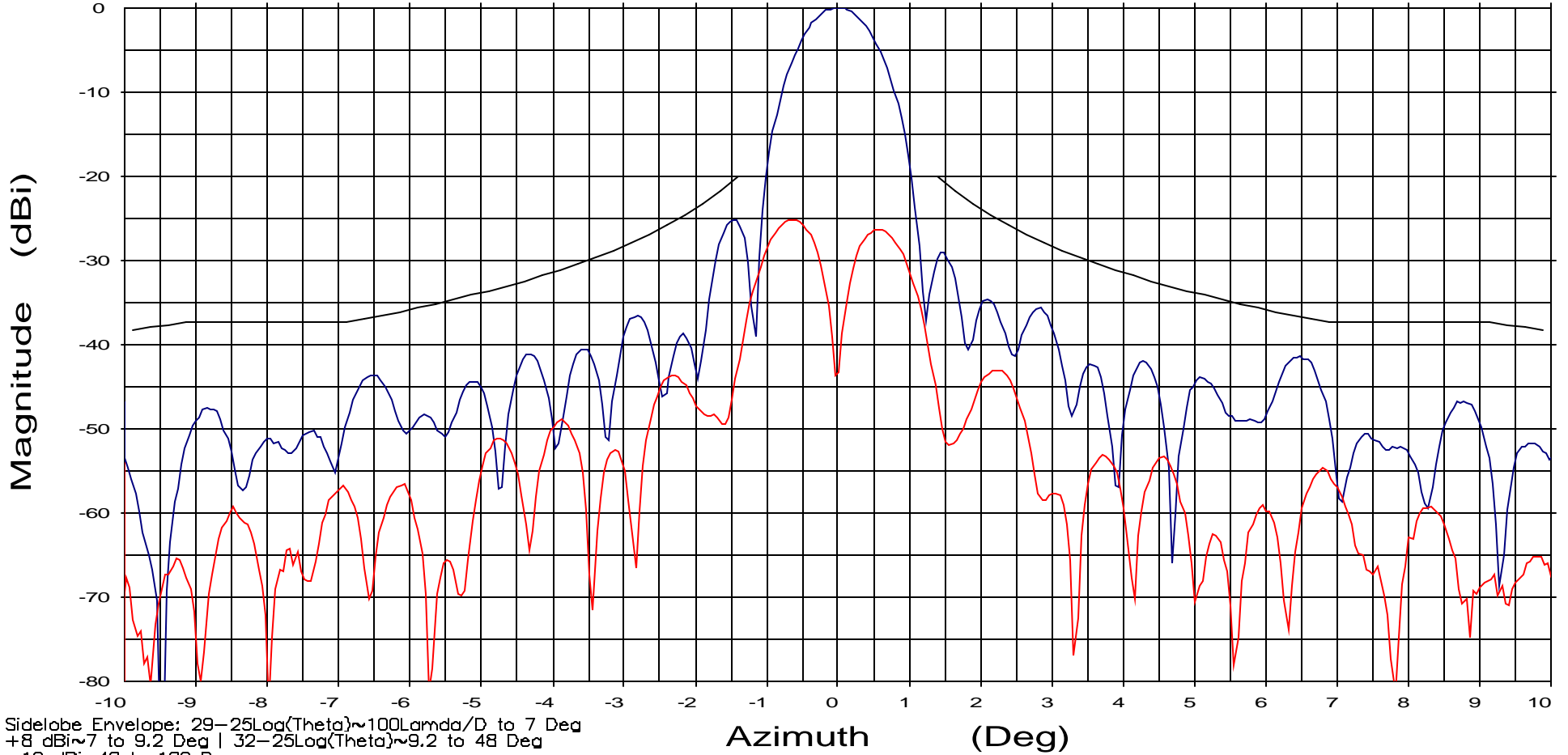
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test
1459-07.dat-ant_under_test

Cal. file	units
1459-06.dat	dBi
1459-07.dat	dBi

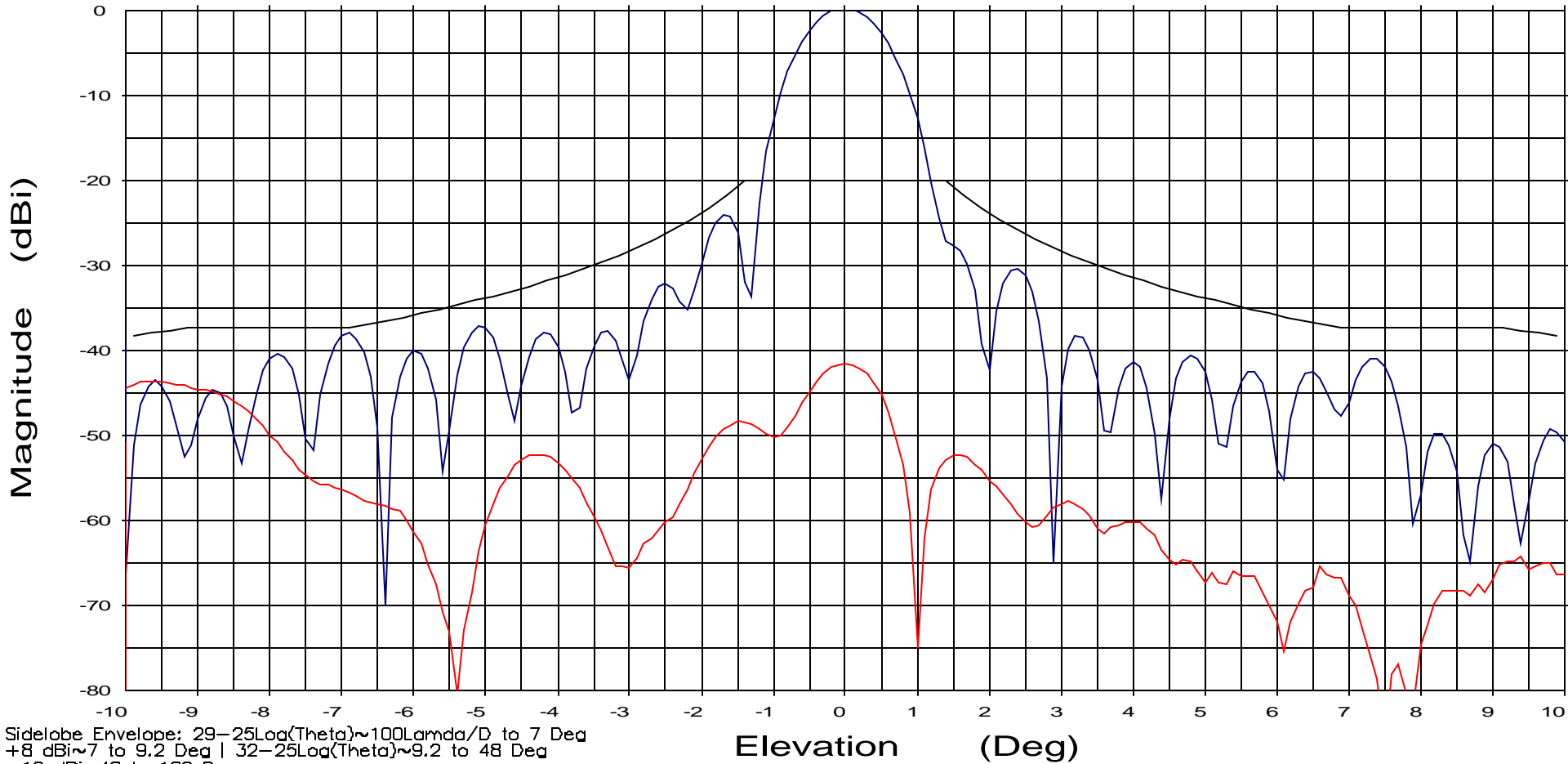
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 10.950 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\Theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\Theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays

1459-22.dat-ant_under_test
1459-24.dat-ant_under_test

Cal. file

1459-22.dat
1459-24.dat

units

dBi
dBi

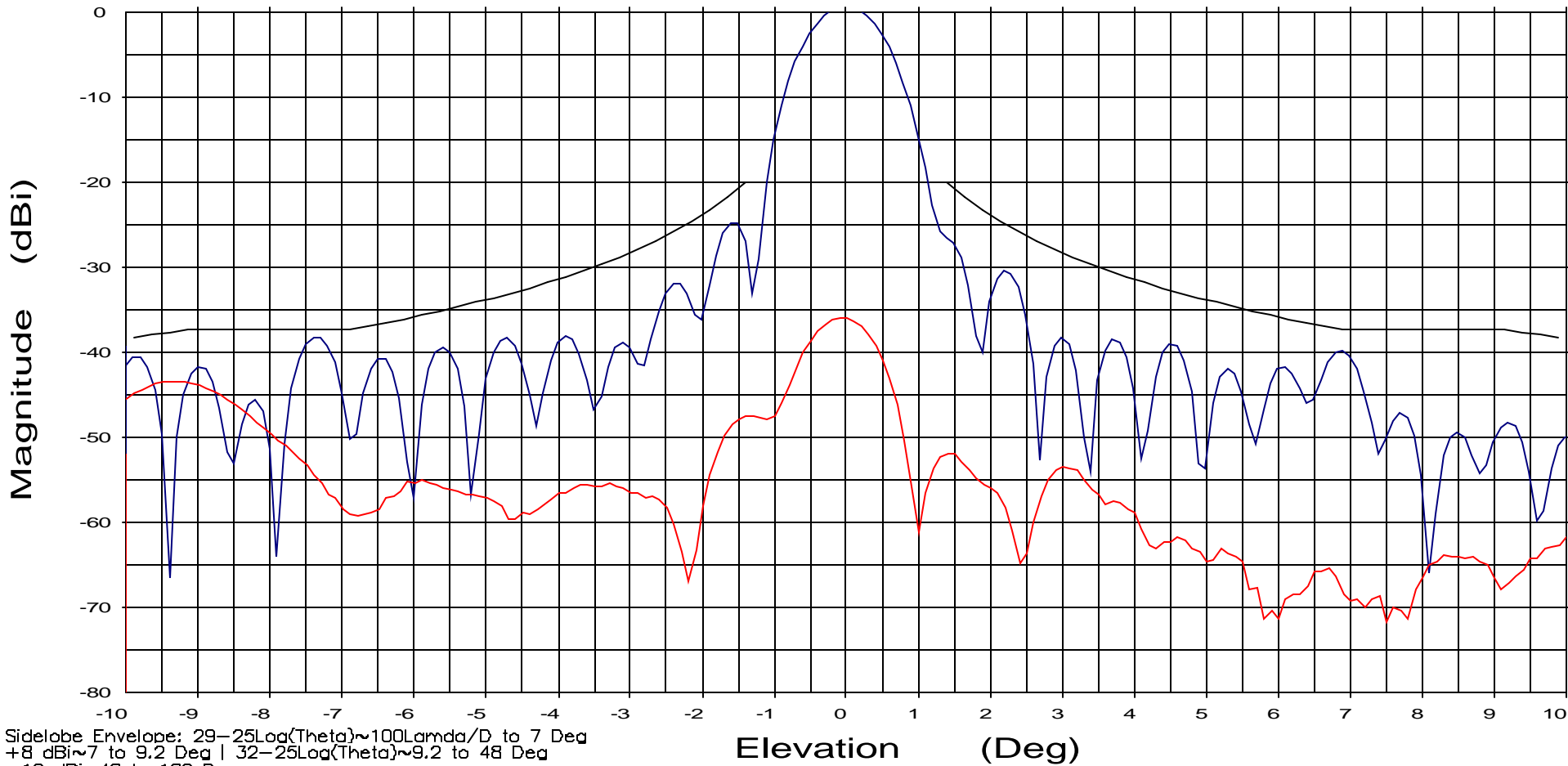
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 11.700 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-22.dat-ant_under_test	1459-22.dat	dBi
1459-24.dat-ant_under_test	1459-24.dat	dBi

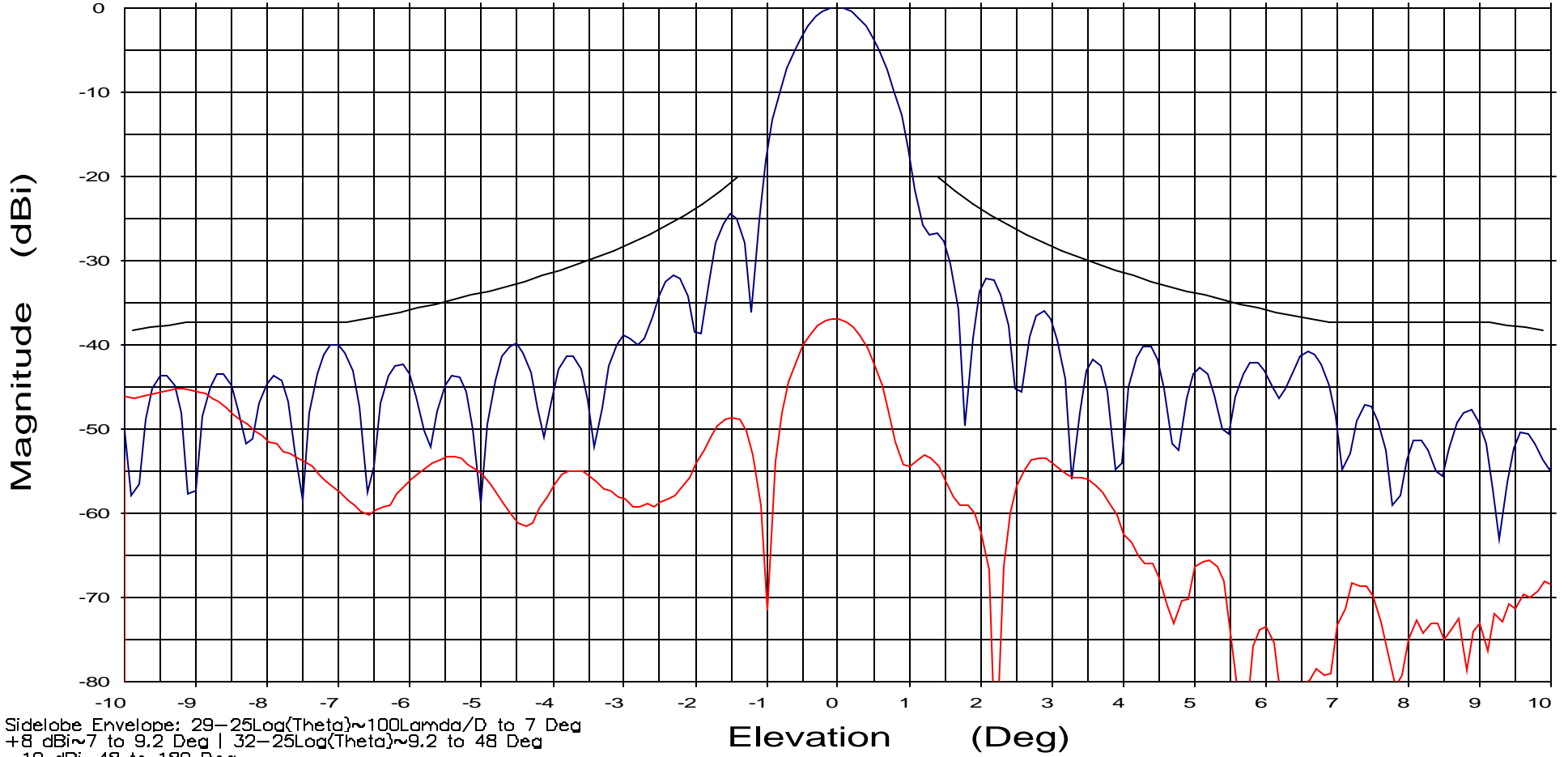
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.200 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays

1459-22.dat-ant_under_test
1459-24.dat-ant_under_test

Cal. file

1459-22.dat
1459-24.dat

units

dBi
dBi

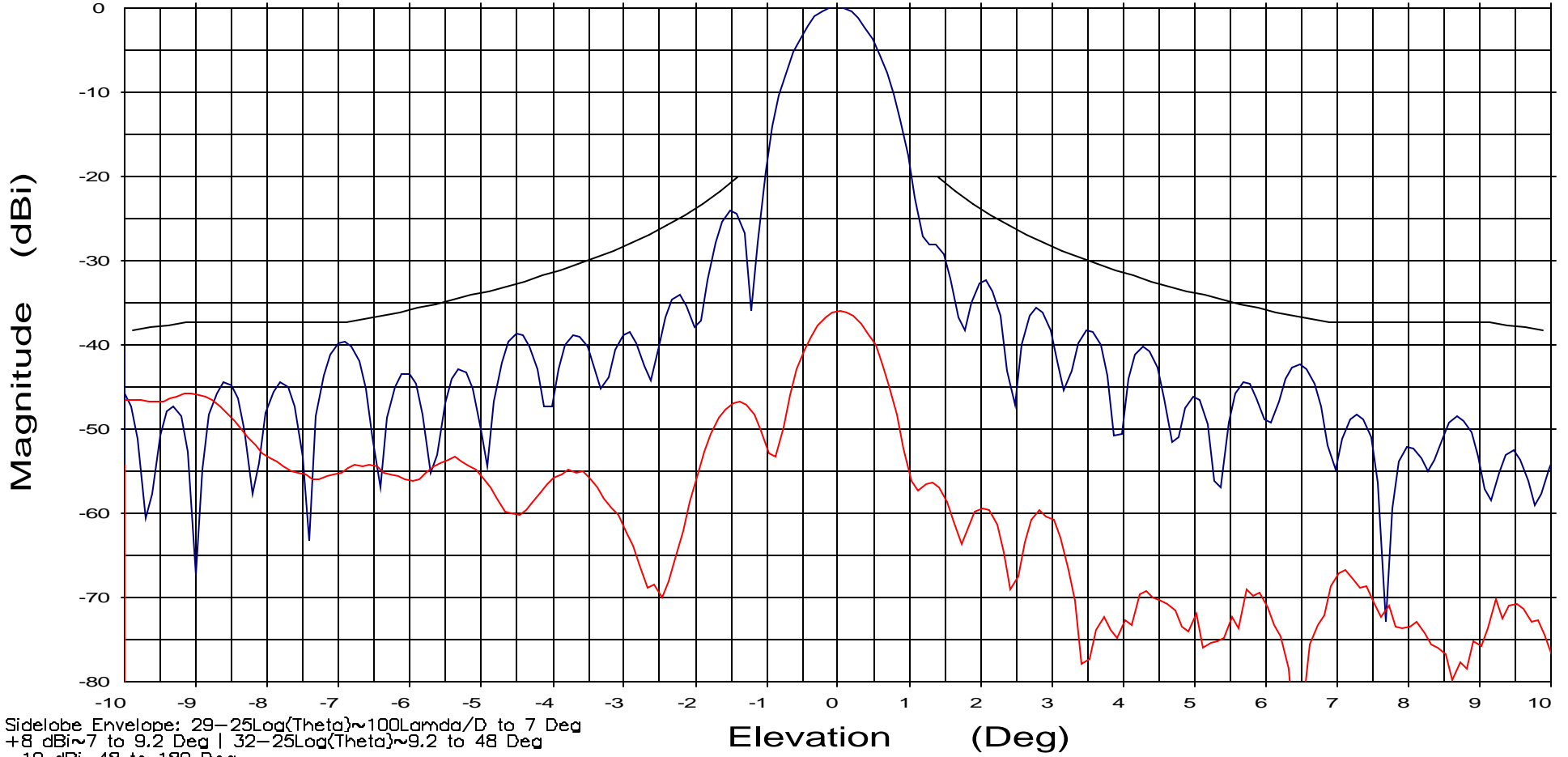
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.450 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays

1459-22.dat-ant_under_test
1459-24.dat-ant_under_test

Cal. file

1459-22.dat
1459-24.dat

units

dBi
dBi

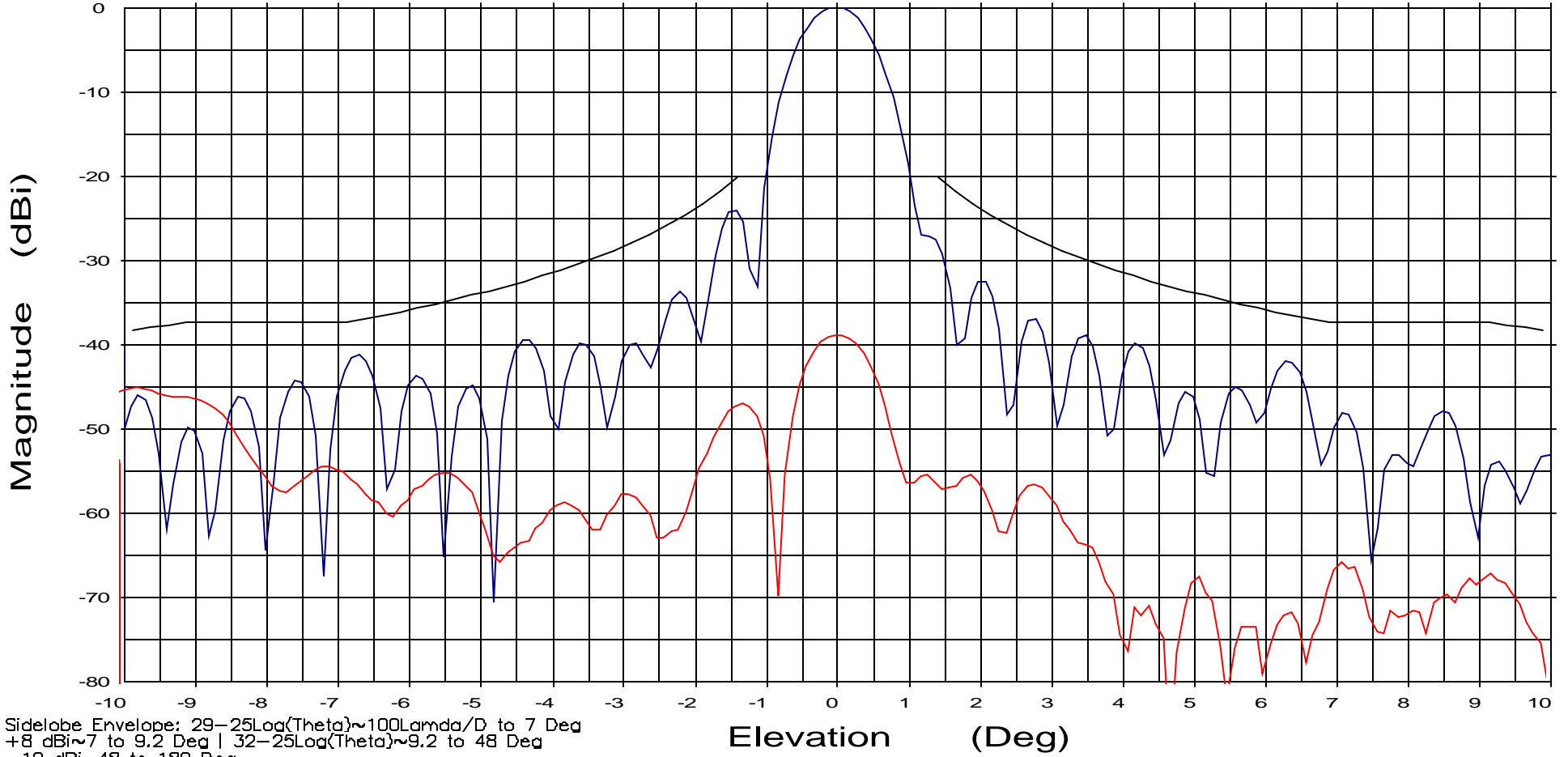
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays

1459-22.dat-ant_under_test
1459-24.dat-ant_under_test

Cal. file

1459-22.dat
1459-24.dat

units

dBi
dBi

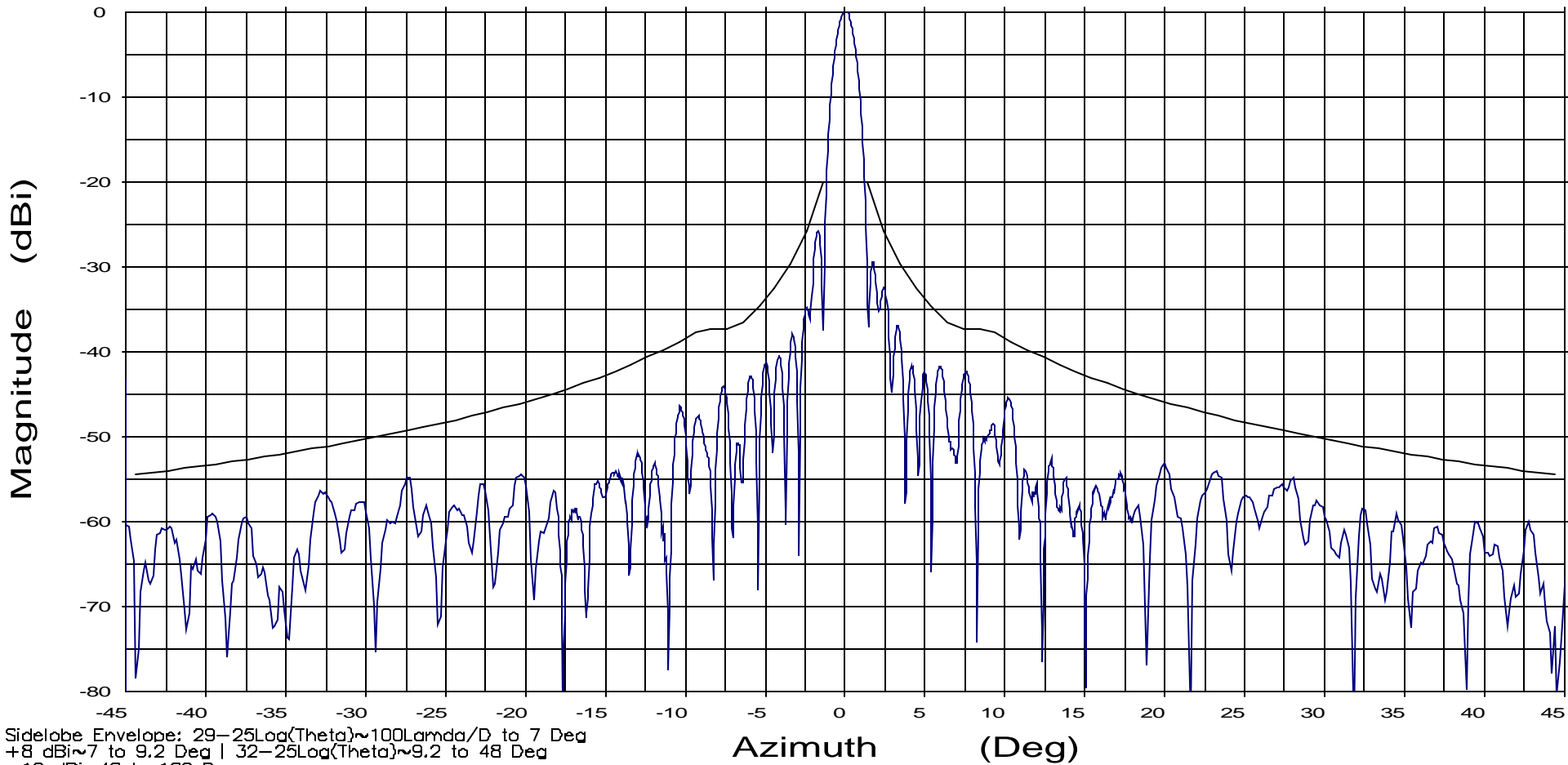
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 10.950 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays
1459-06.dat-ant_under_test

Cal. file
1459-06.dat

units
dBi

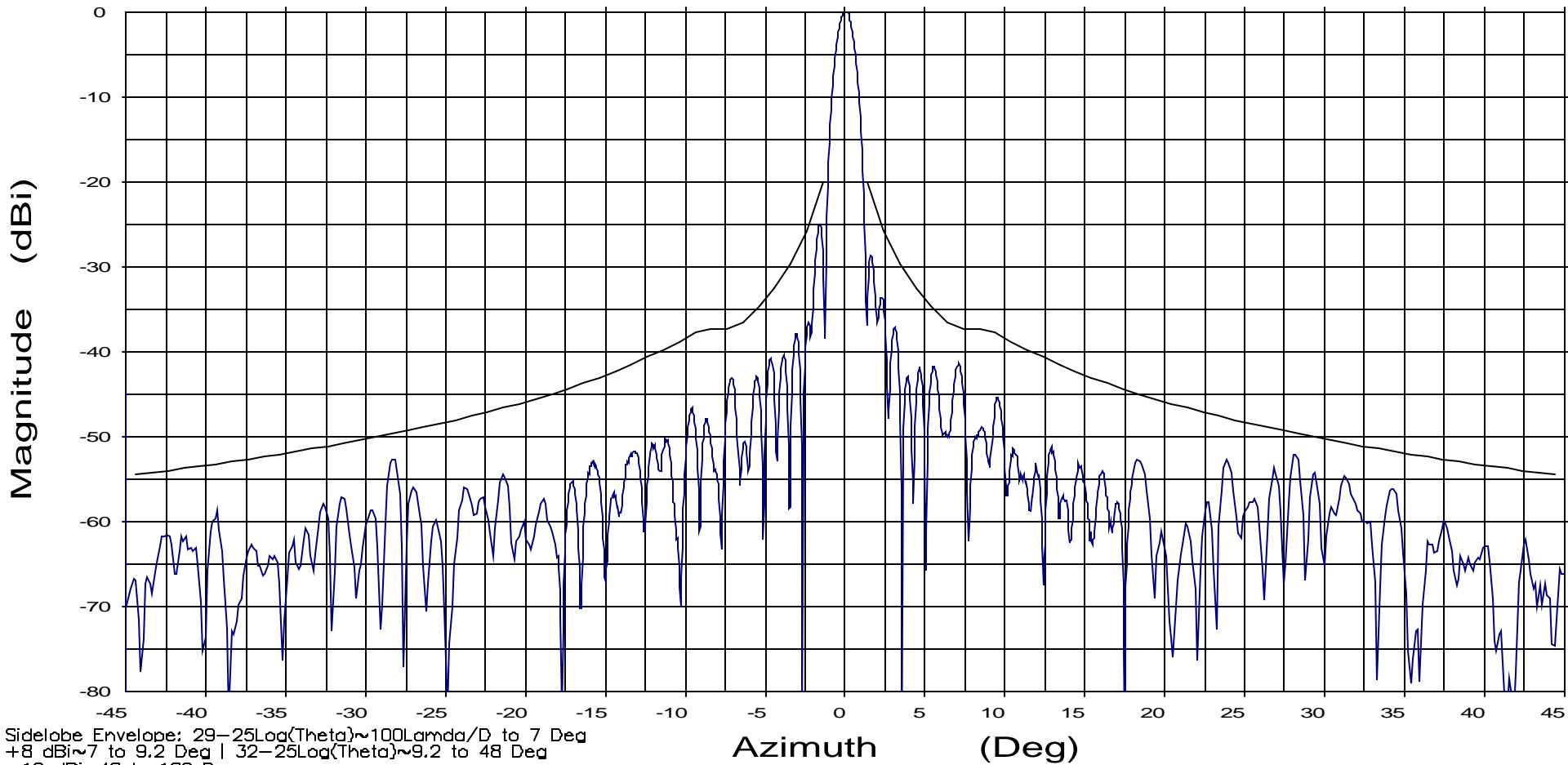
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 11.700 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test

Cal. file
1459-06.dat

units
dBi

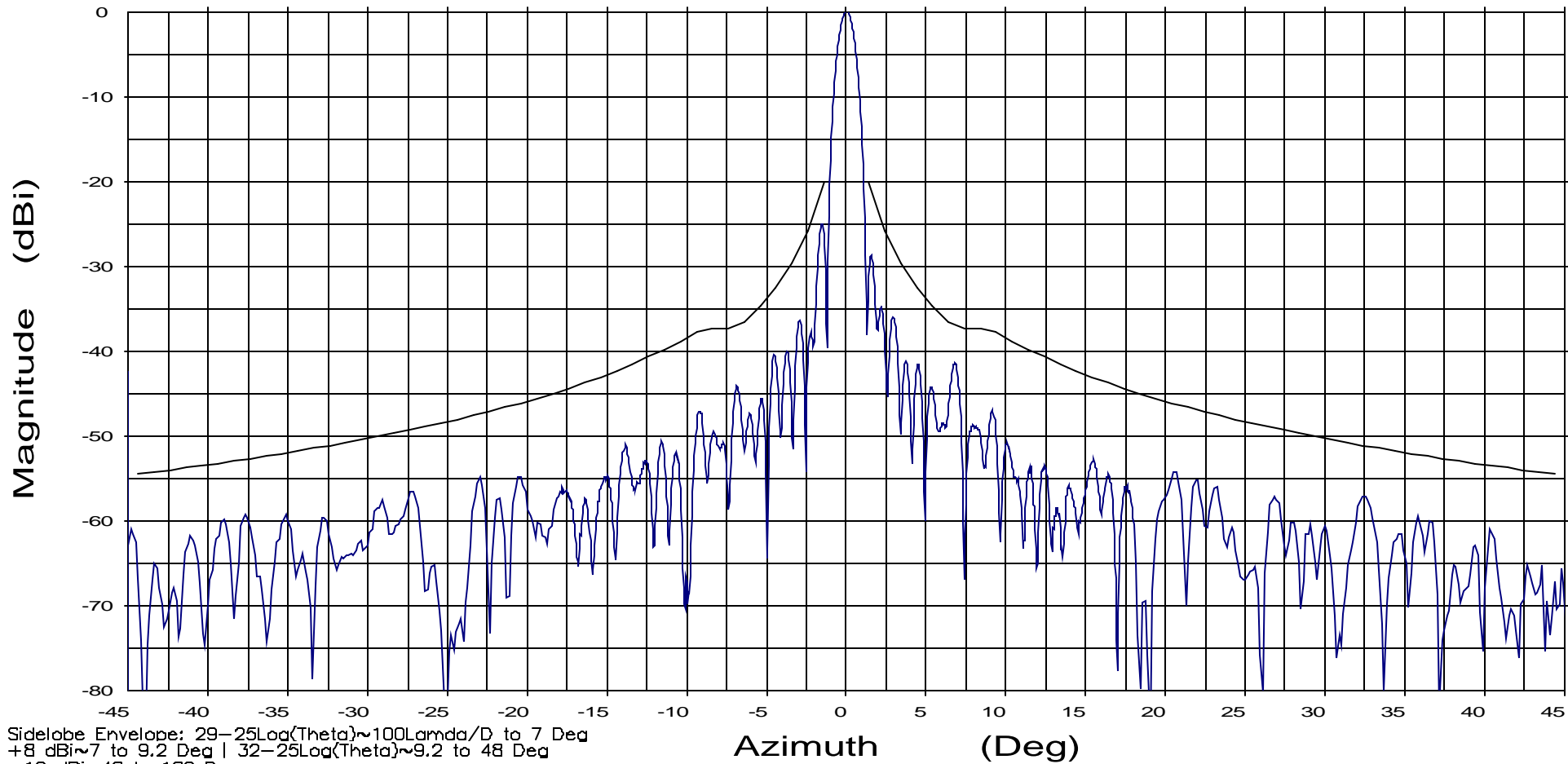
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.200 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test

Cal. file units
1459-06.dat dBi

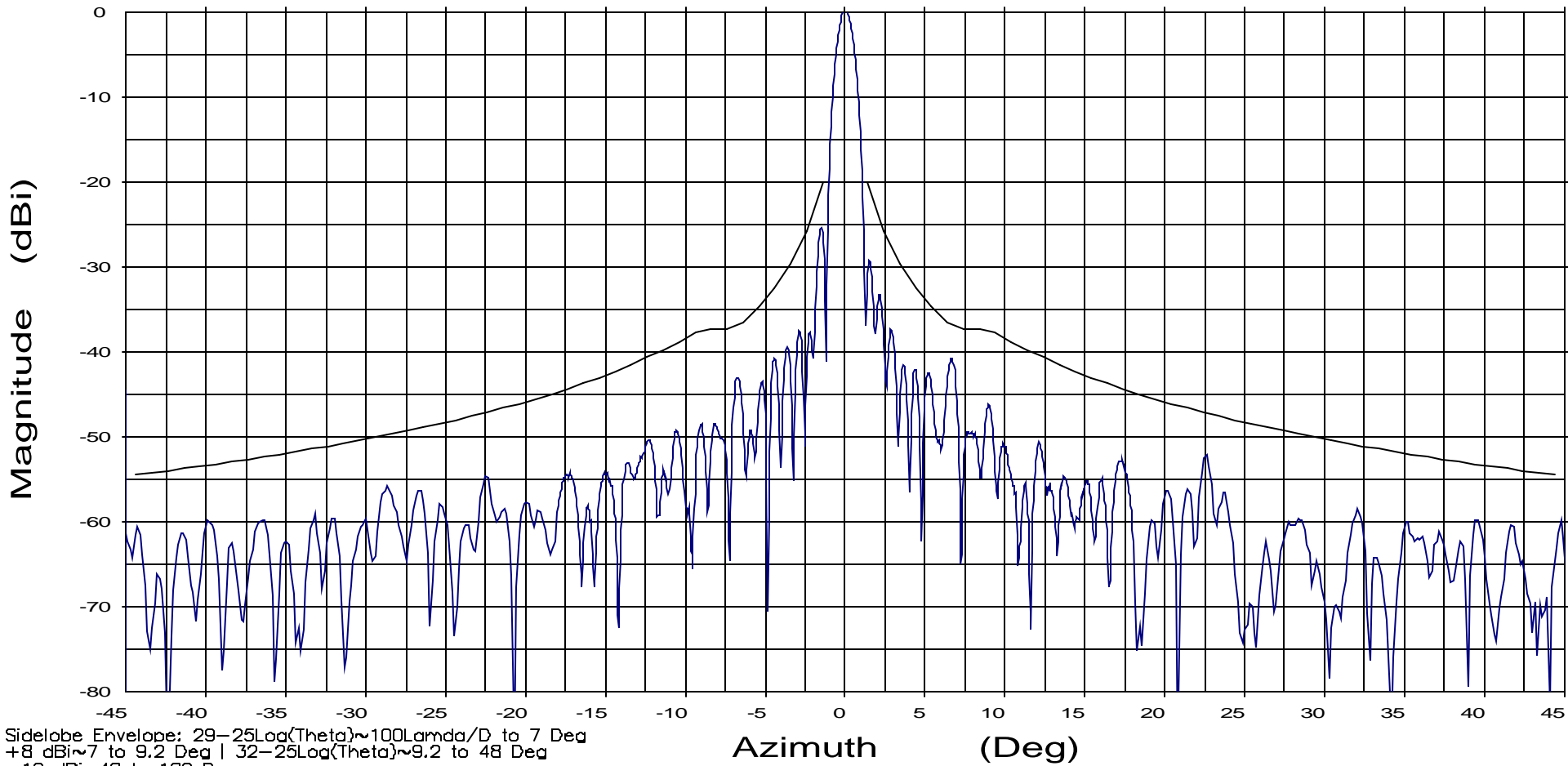
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.450 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test

Cal. file
1459-06.dat

units
dBi

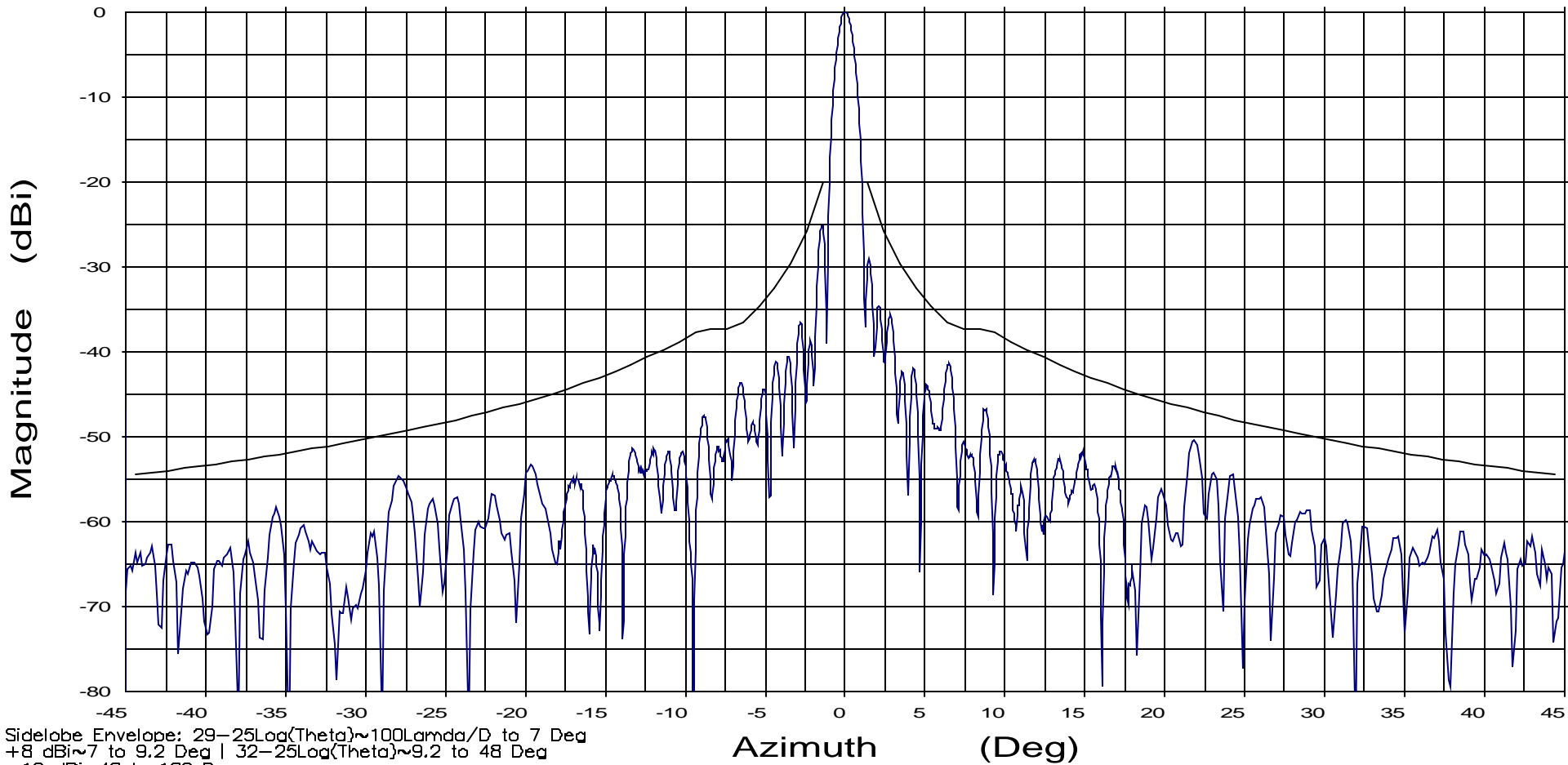
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test

Cal. file
1459-06.dat

units
dBi

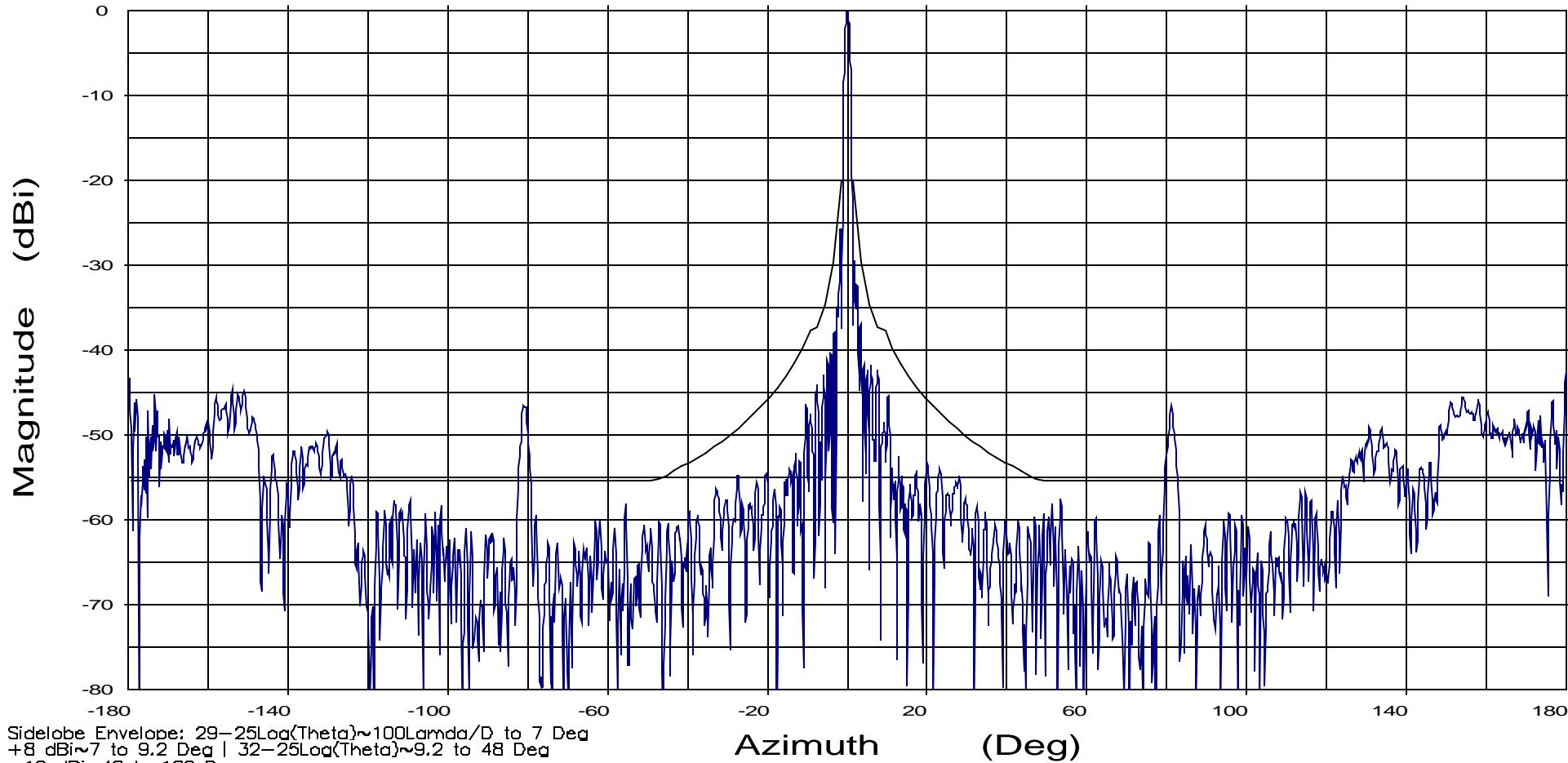
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 10.950 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test

Cal. file
1459-06.dat

units
dBi

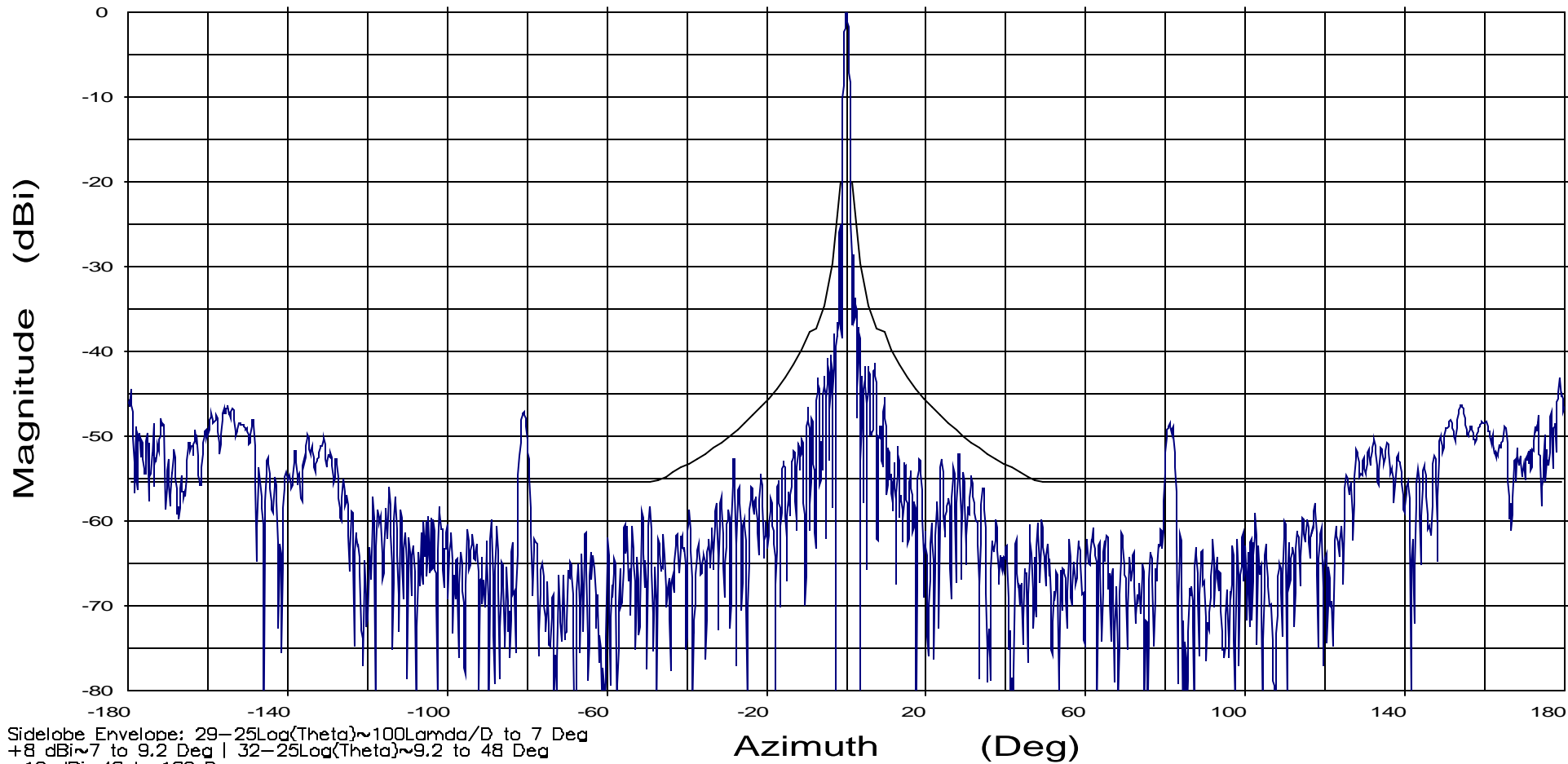
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 11.700 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test

Cal. file units
1459-06.dat dBi

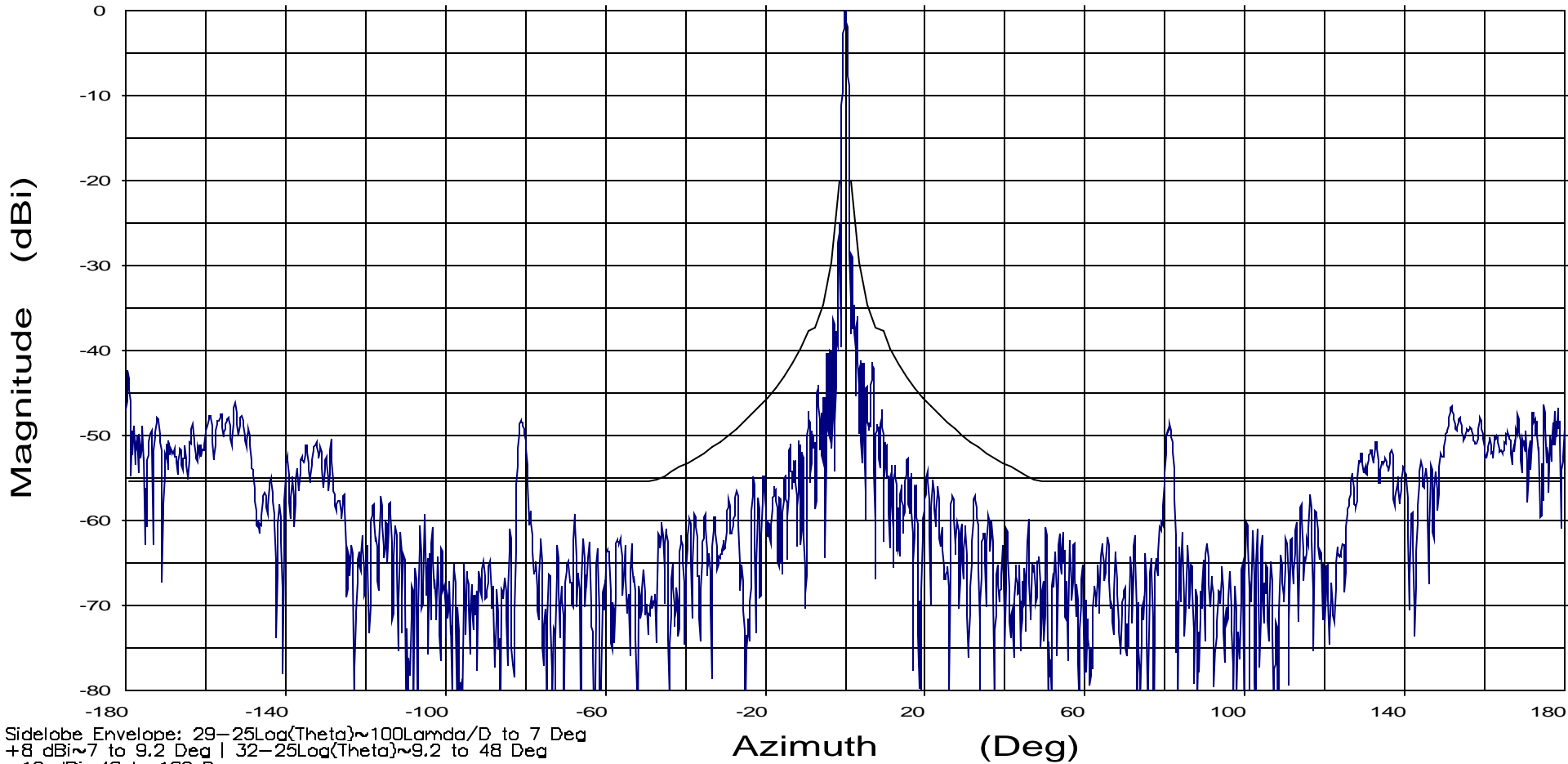
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.200 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-06.dat-ant_under_test

Cal. file units
1459-06.dat dBi

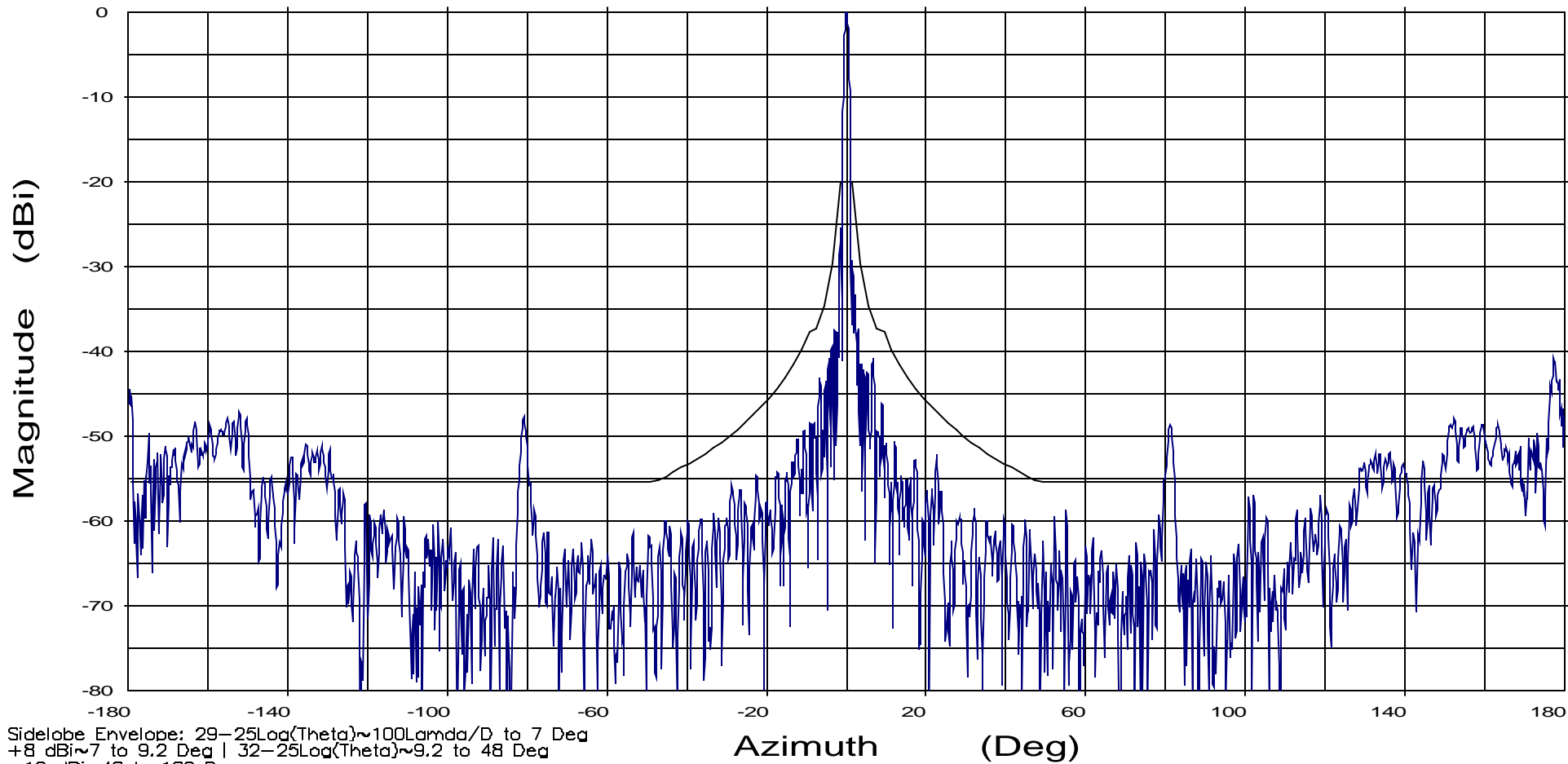
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.450 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays
1459-06.dat-ant_under_test

Cal. file
1459-06.dat

units
dBi

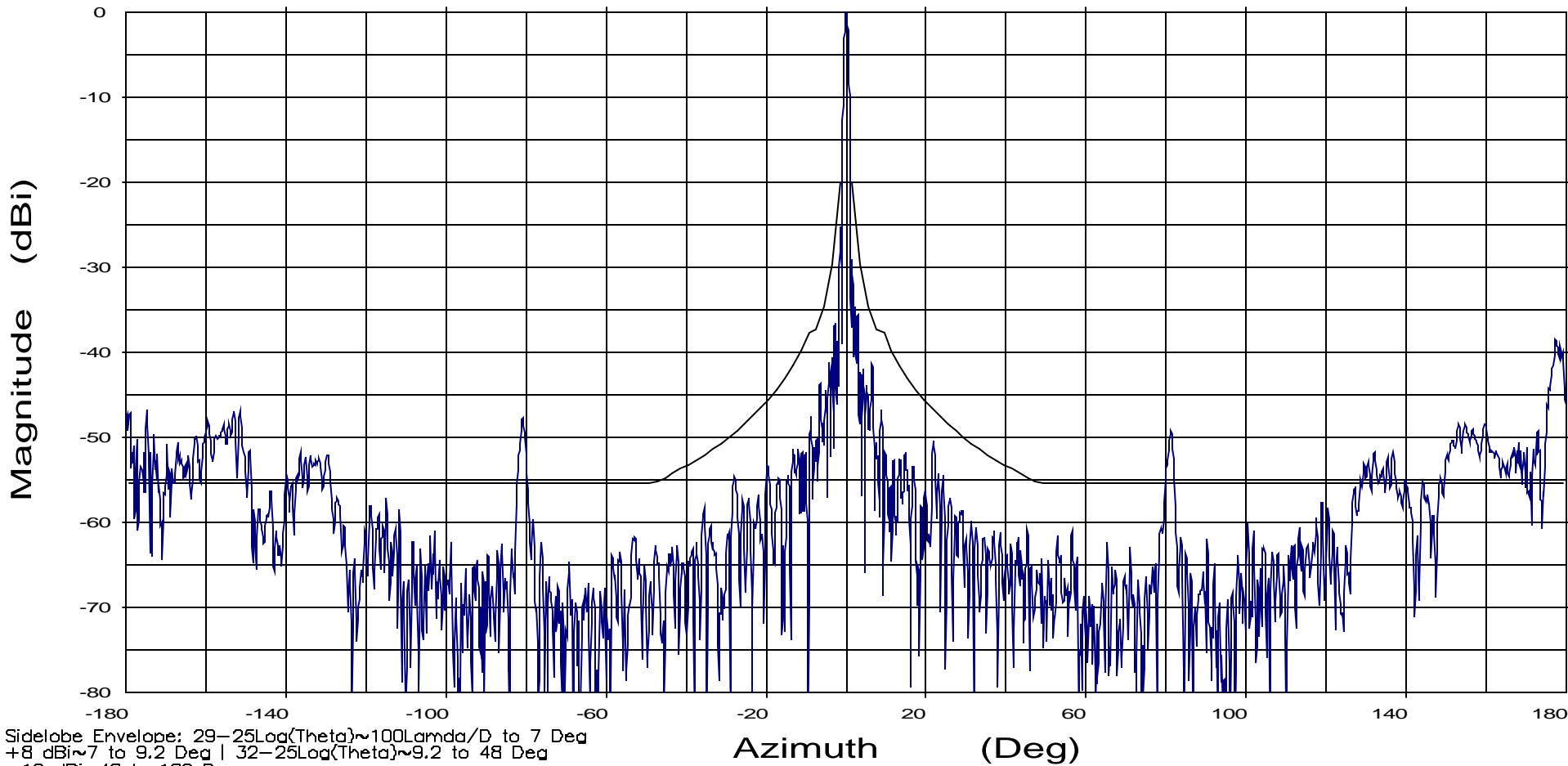
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: 29-25Log(Theta)~100Lambda/D 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
1459-06.dat-ant_under_test

Cal. file units
1459-06.dat dBi

Section VI

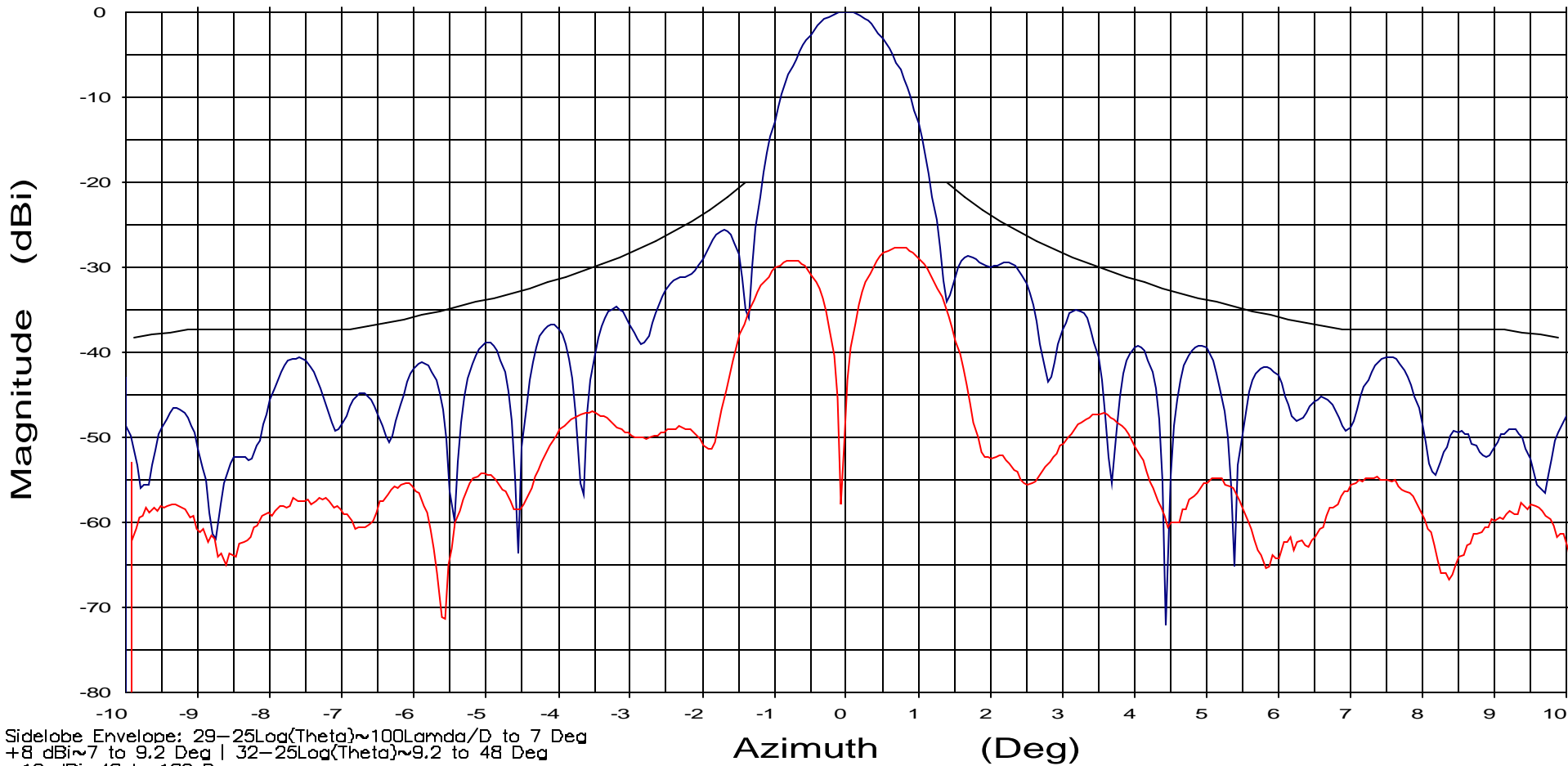
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 10.950 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-08.dat-ant_under_test	1459-08.dat	dBi
1459-09.dat-ant_under_test	1459-09.dat	dBi

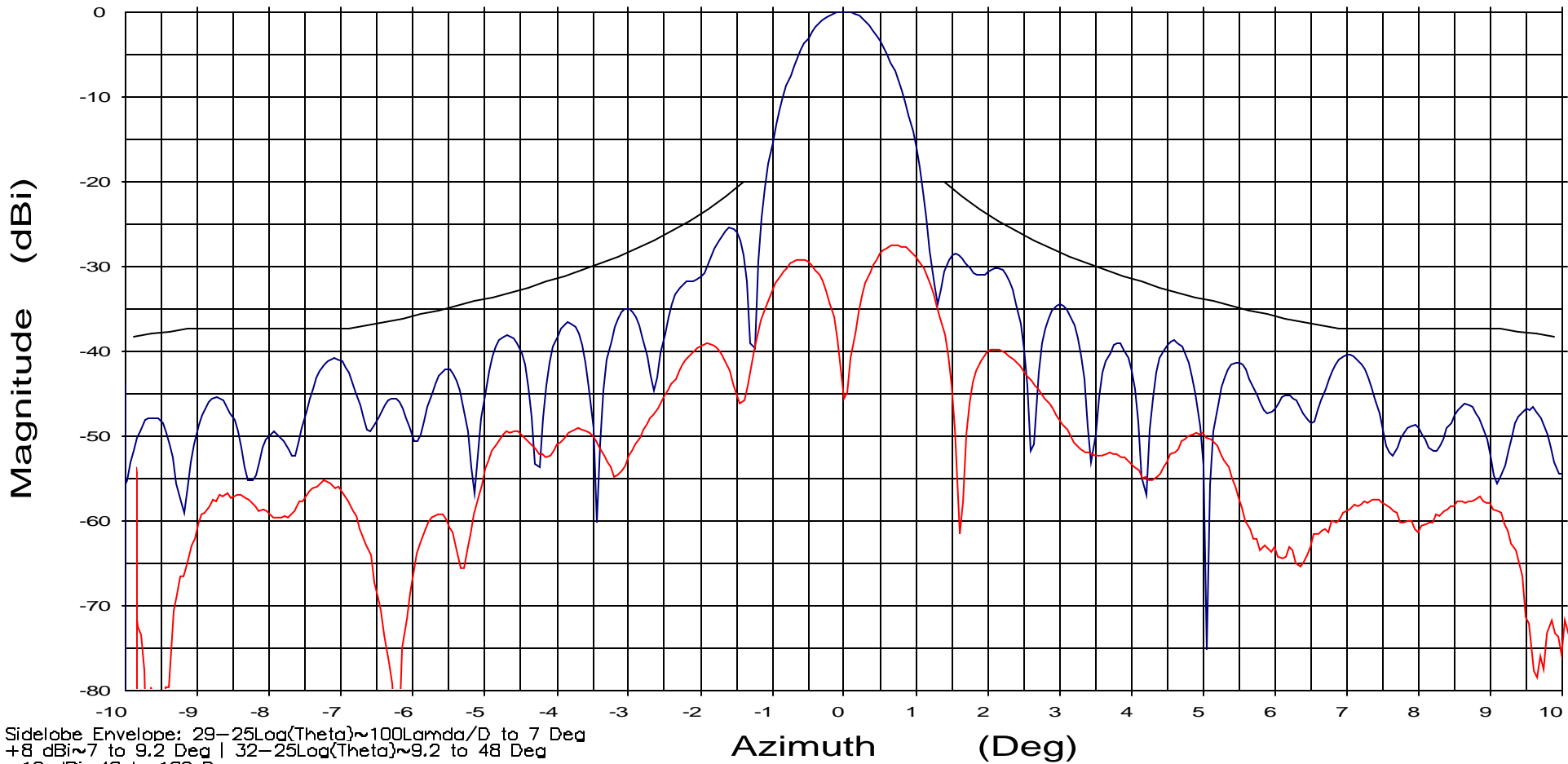
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 11.700 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-08.dat-ant_under_test	1459-08.dat	dBi
1459-09.dat-ant_under_test	1459-09.dat	dBi

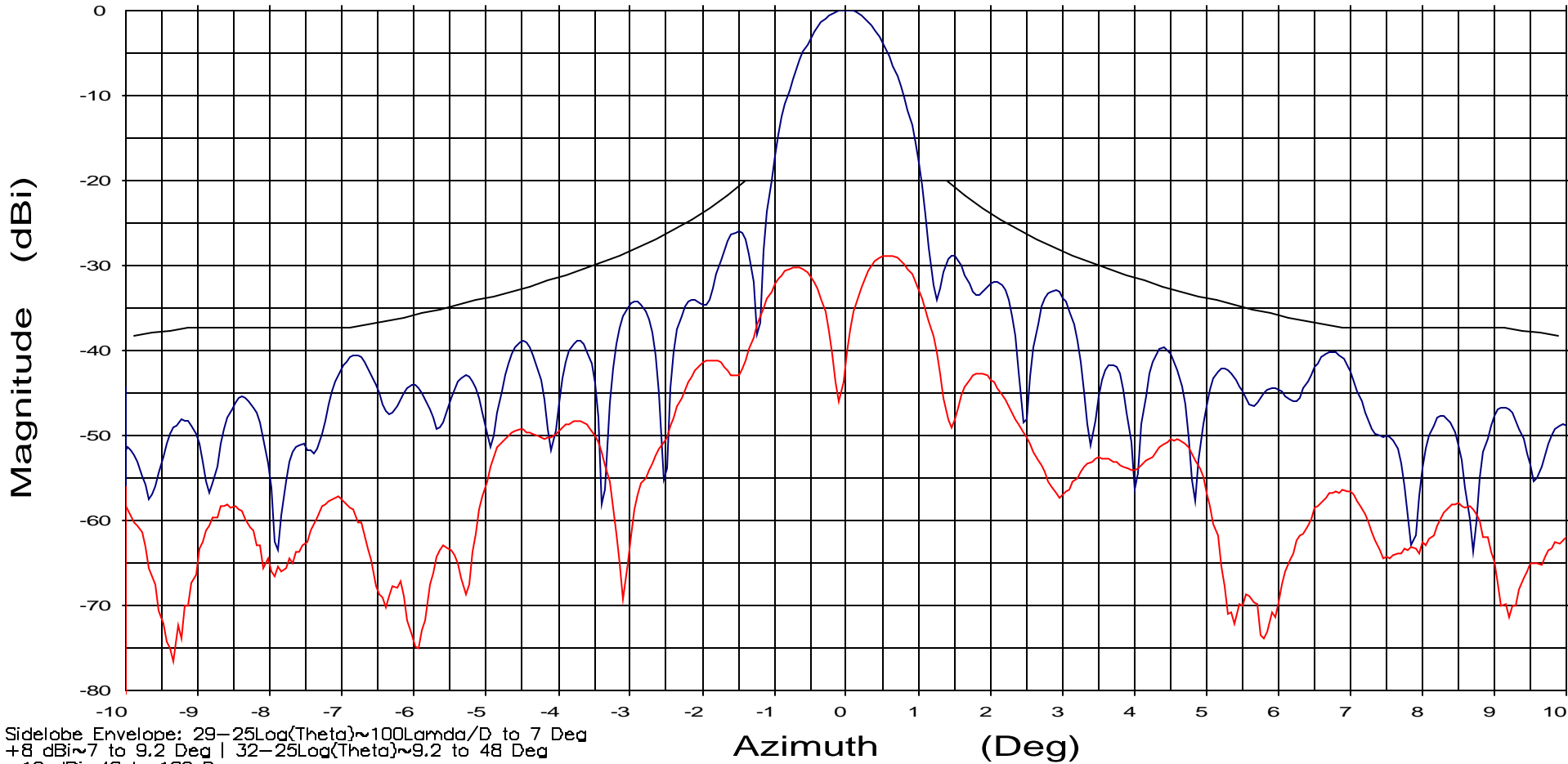
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.200 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-08.dat-ant_under_test	1459-08.dat	dBi
1459-09.dat-ant_under_test	1459-09.dat	dBi

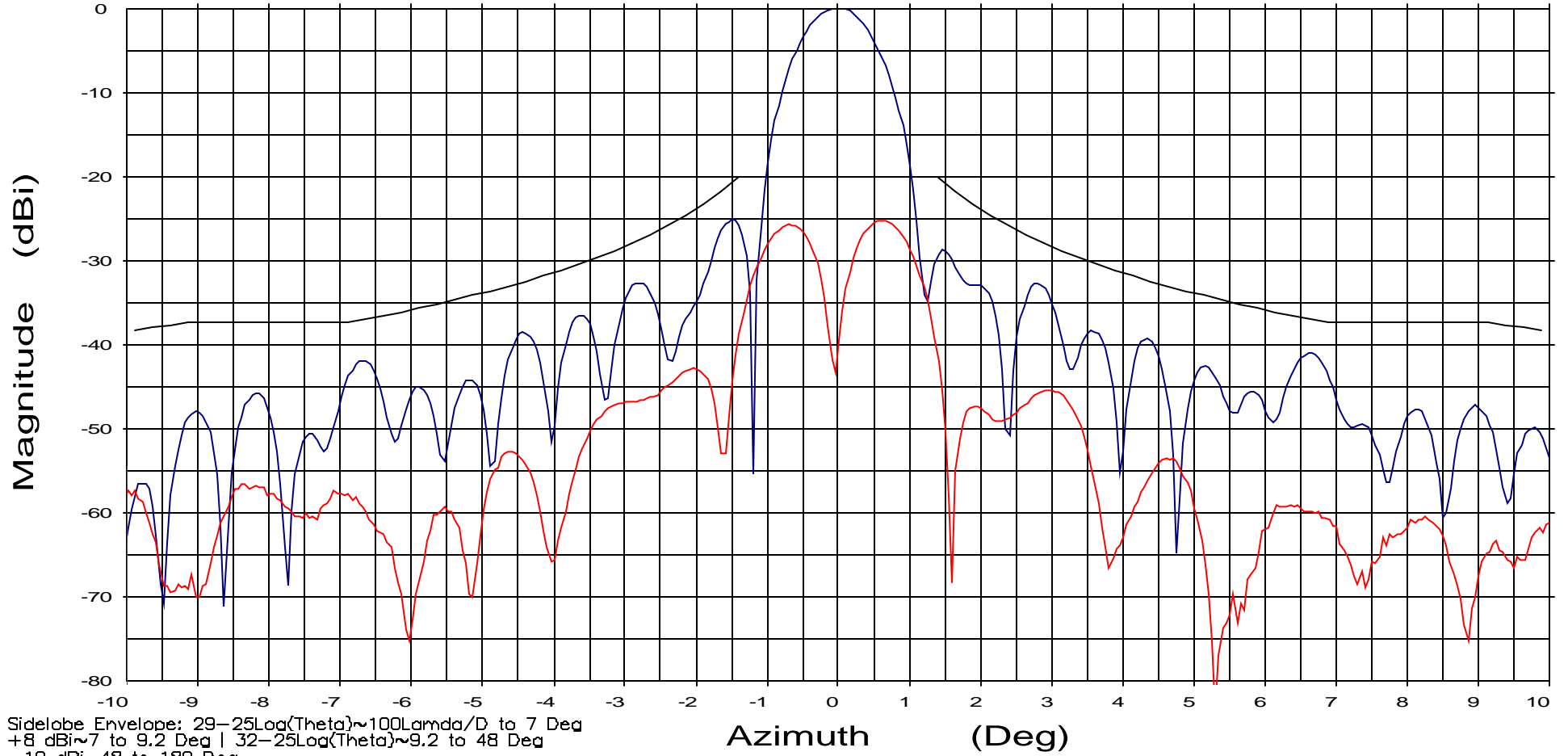
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.450 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-08.dat-ant_under_test	1459-08.dat	dBi
1459-09.dat-ant_under_test	1459-09.dat	dBi

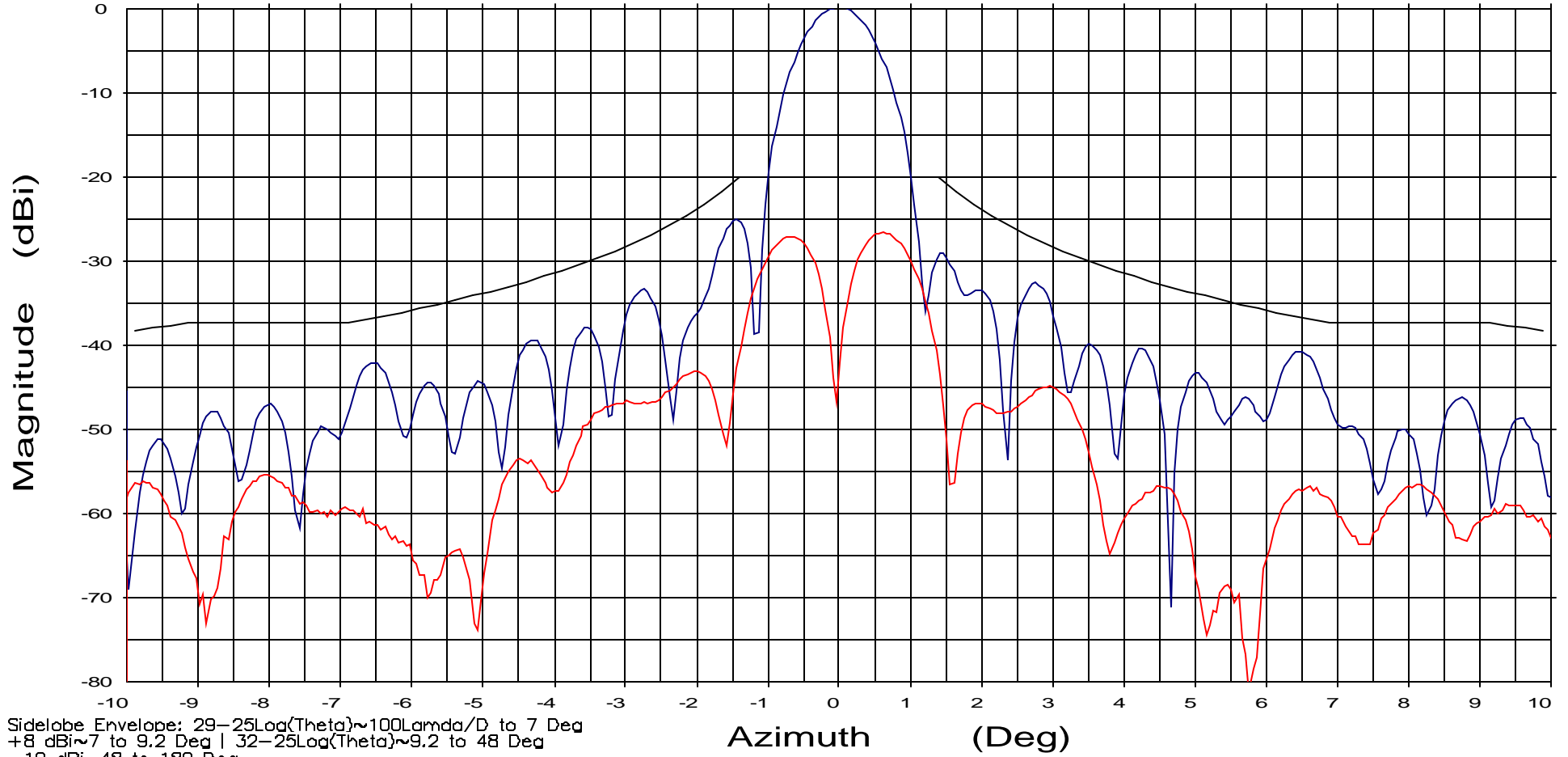
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-08.dat-ant_under_test	1459-08.dat	dBi
1459-09.dat-ant_under_test	1459-09.dat	dBi

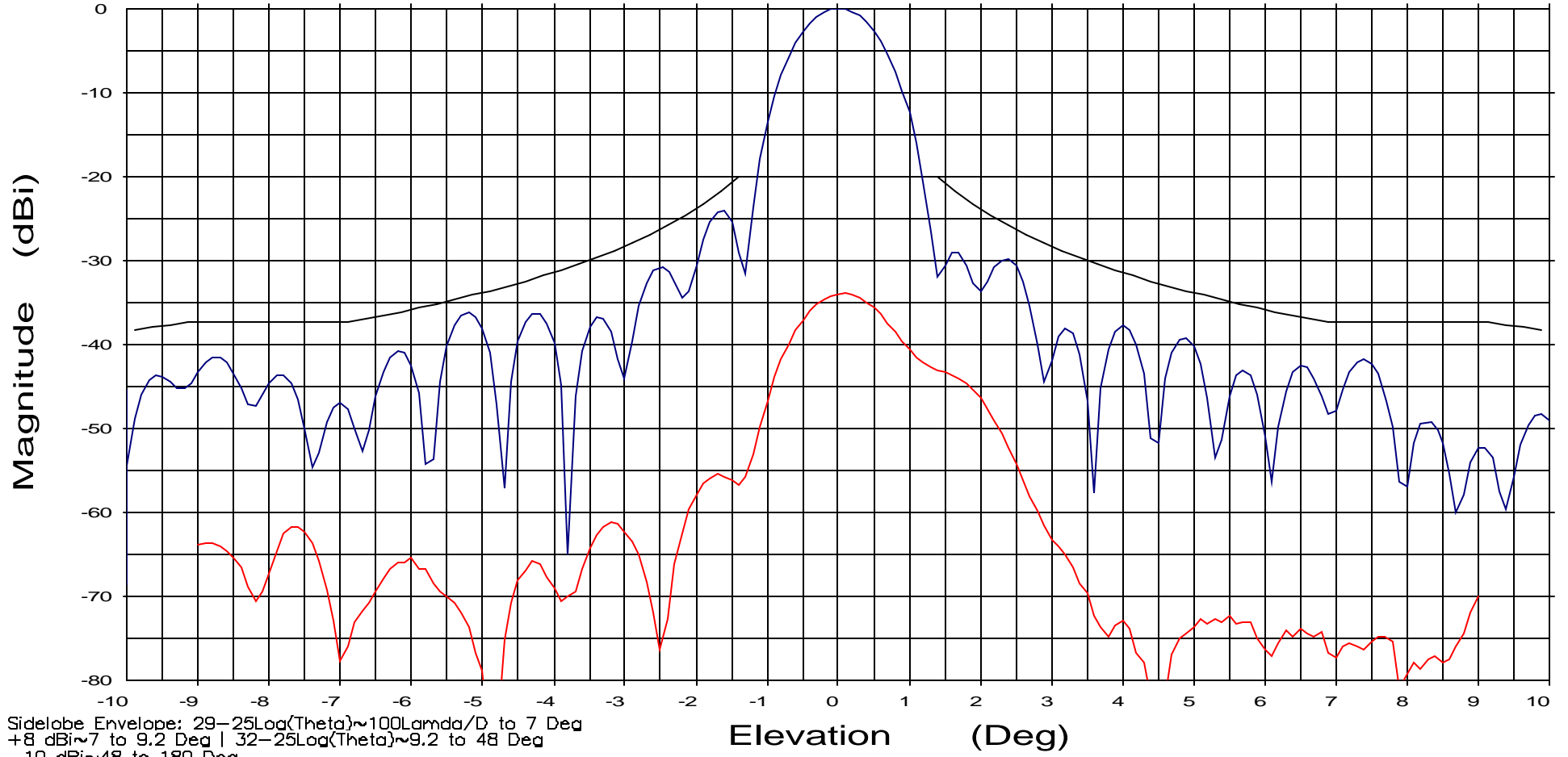
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 10.950 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays
1459-17.dat-ant_under_test
1459-20.dat-ant_under_test

Cal. file	units
1459-17.dat	dBi
1459-20.dat	dBi

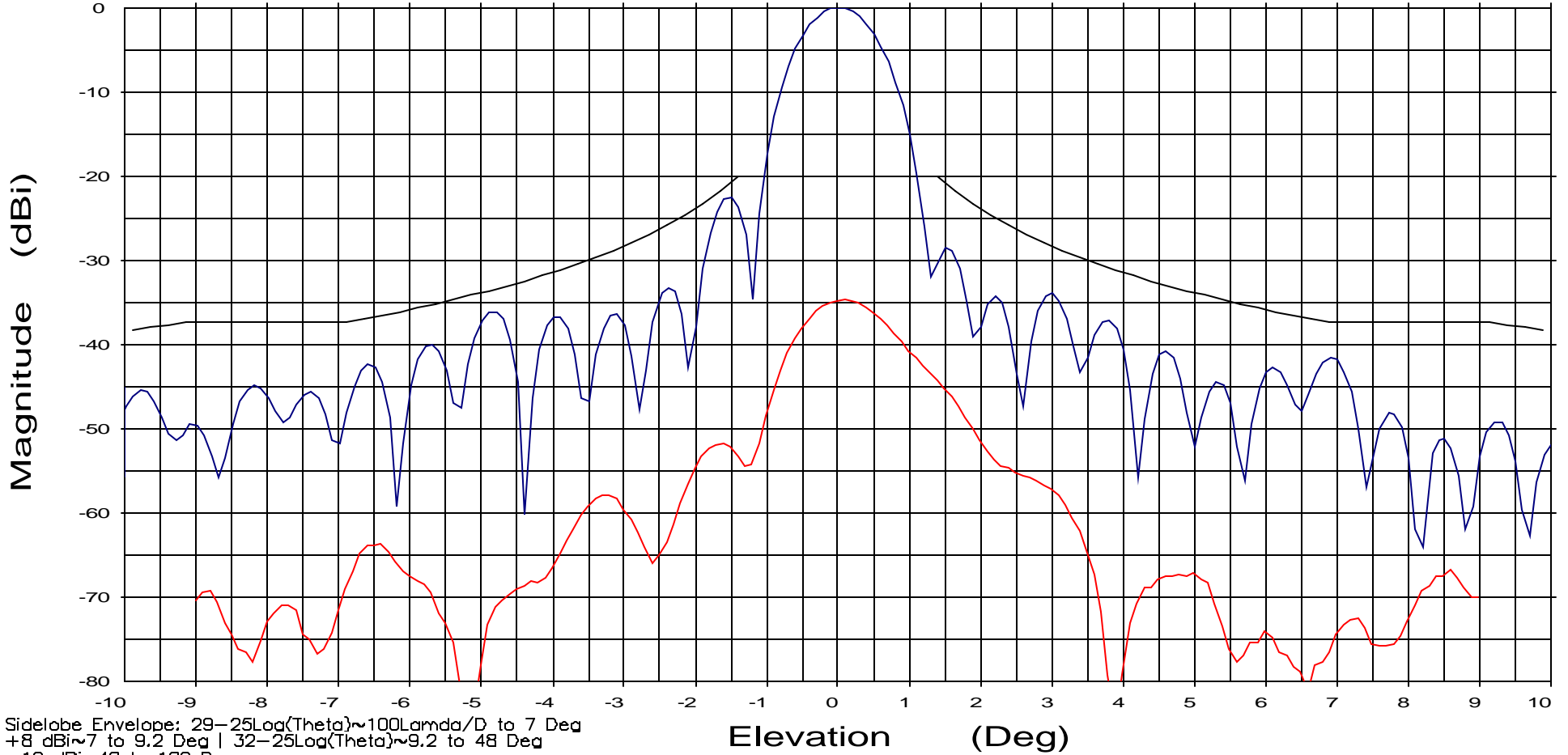
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 11.700 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-17.dat-ant_under_test	1459-17.dat	dBi
1459-20.dat-ant_under_test	1459-20.dat	dBi

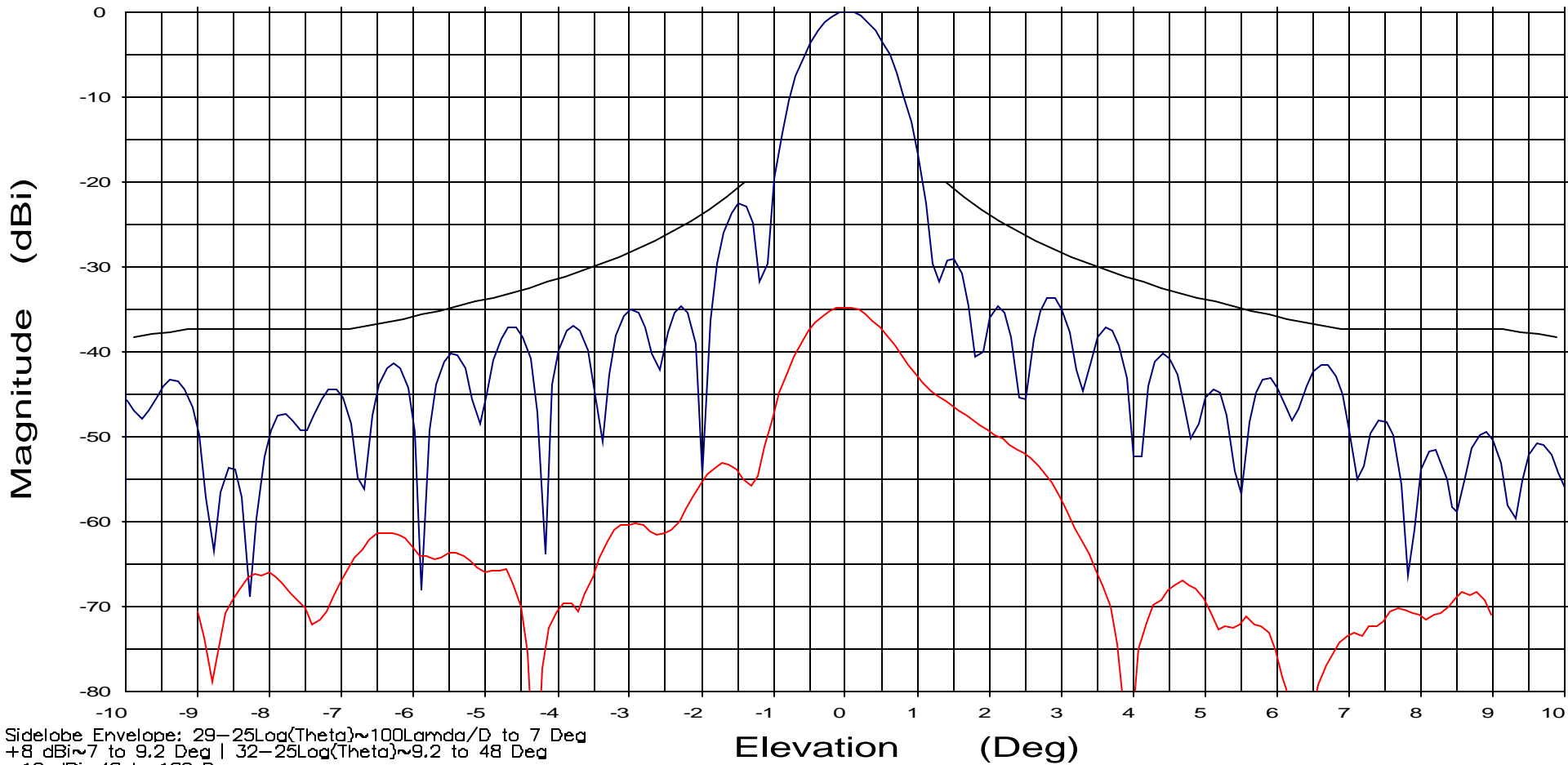
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.200 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays

1459-17.dat-ant_under_test
1459-20.dat-ant_under_test

Cal. file
1459-17.dat
1459-20.dat

units
dBi
dBi

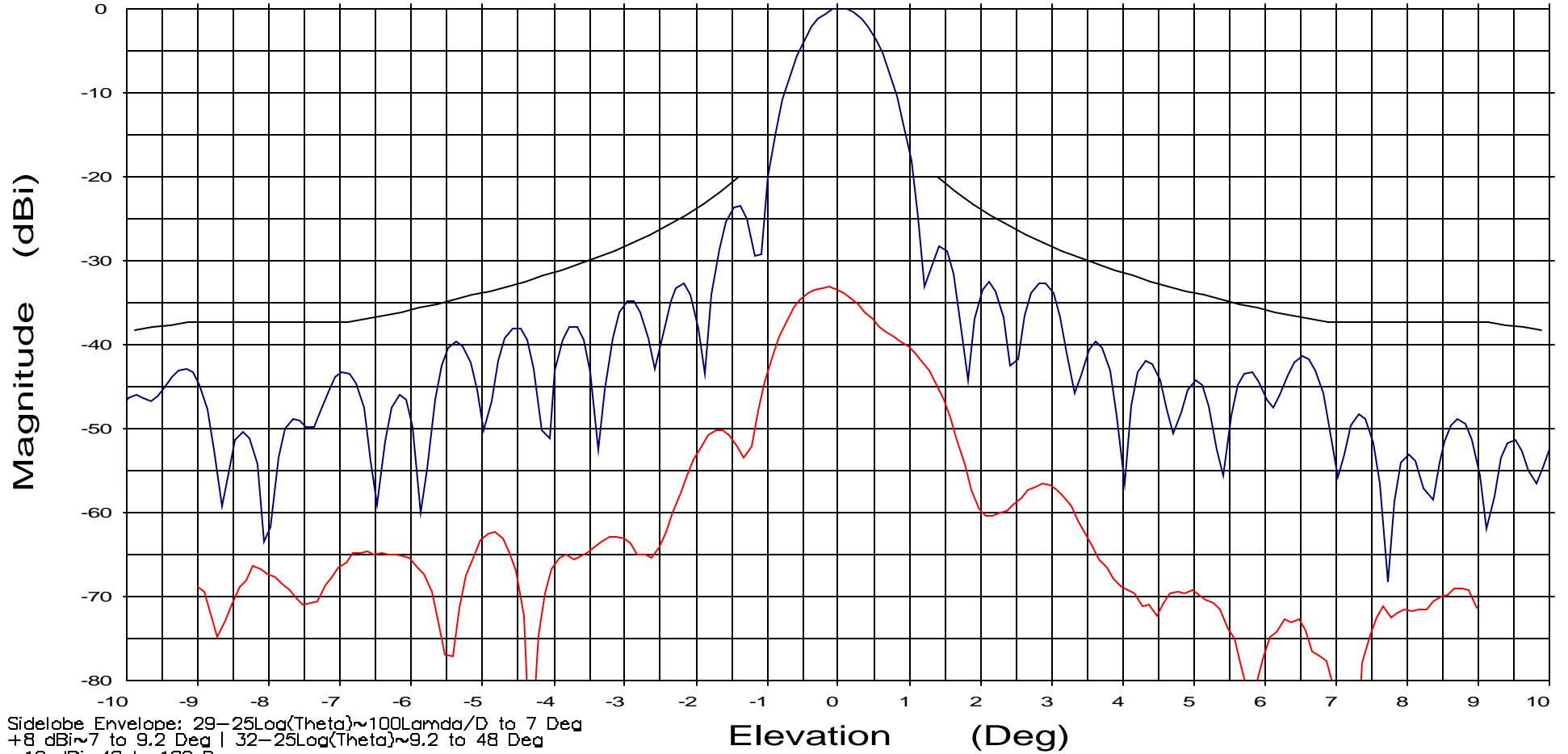
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.450 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays	Cal. file	units
1459-17.dat-ant_under_test	1459-17.dat	dBi
1459-20.dat-ant_under_test	1459-20.dat	dBi

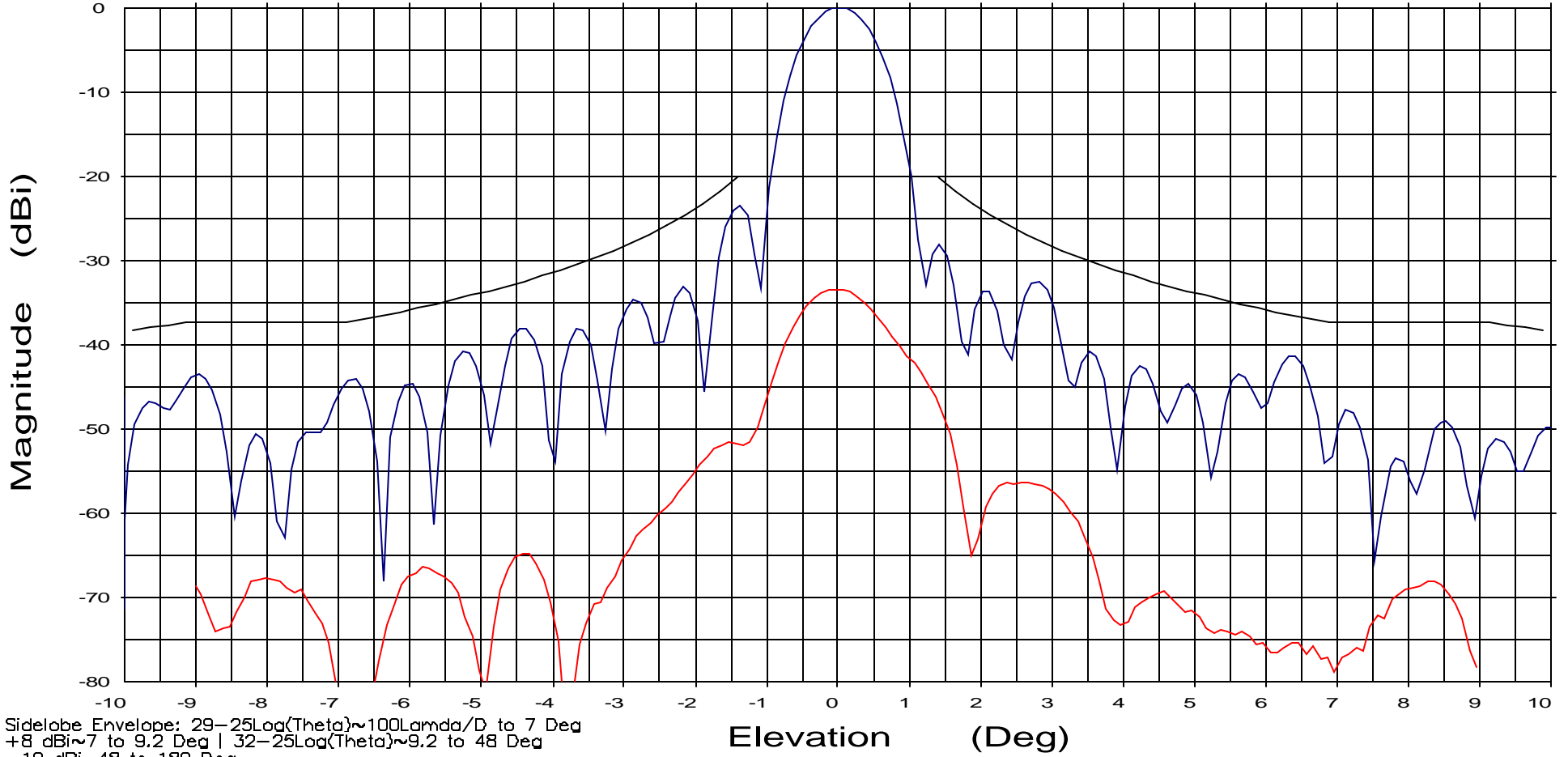
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays
1459-17.dat-ant_under_test
1459-20.dat-ant_under_test

Cal. file	units
1459-17.dat	dBi
1459-20.dat	dBi

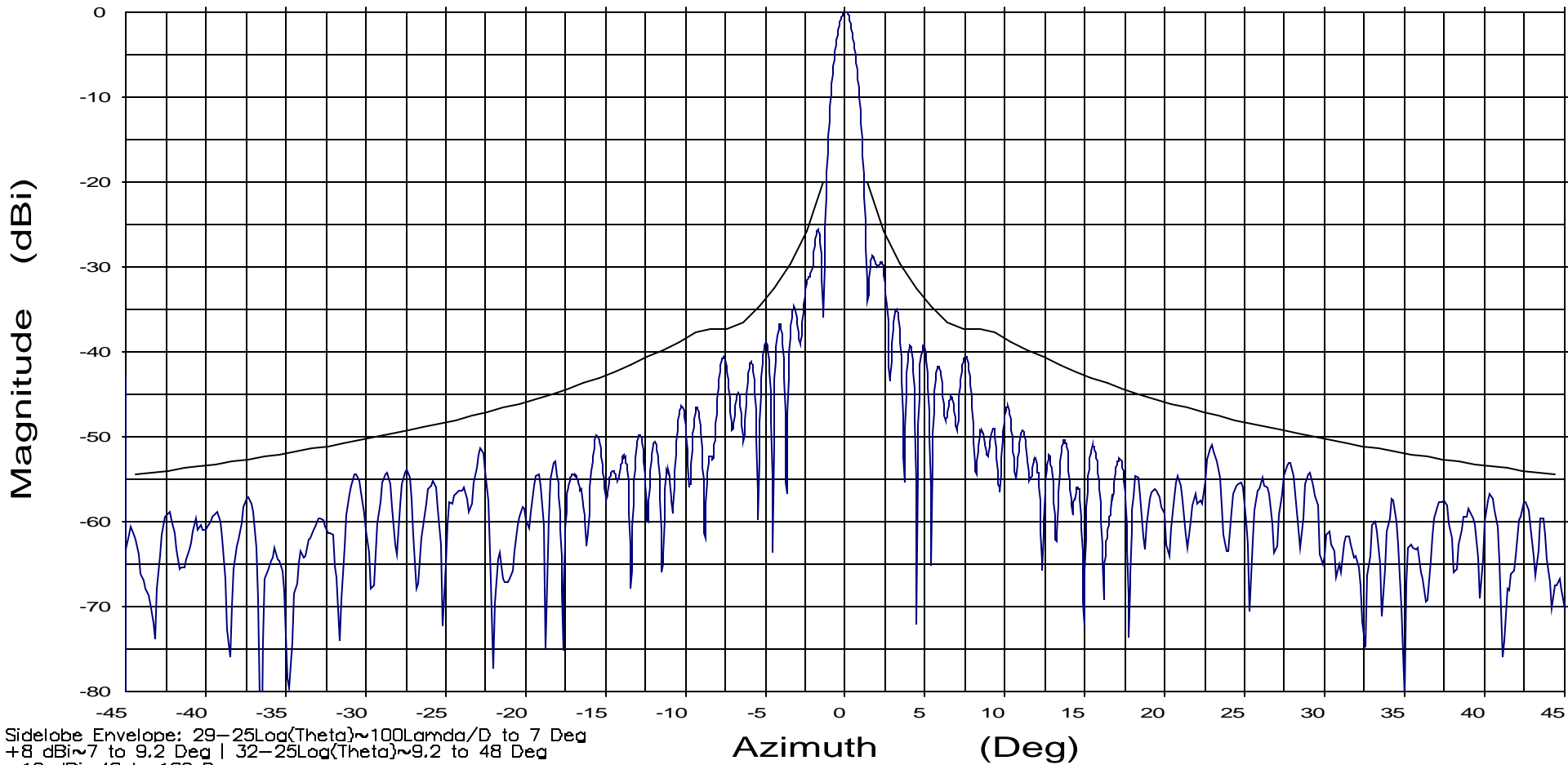
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 10.950 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file
1459-08.dat

units
dBi

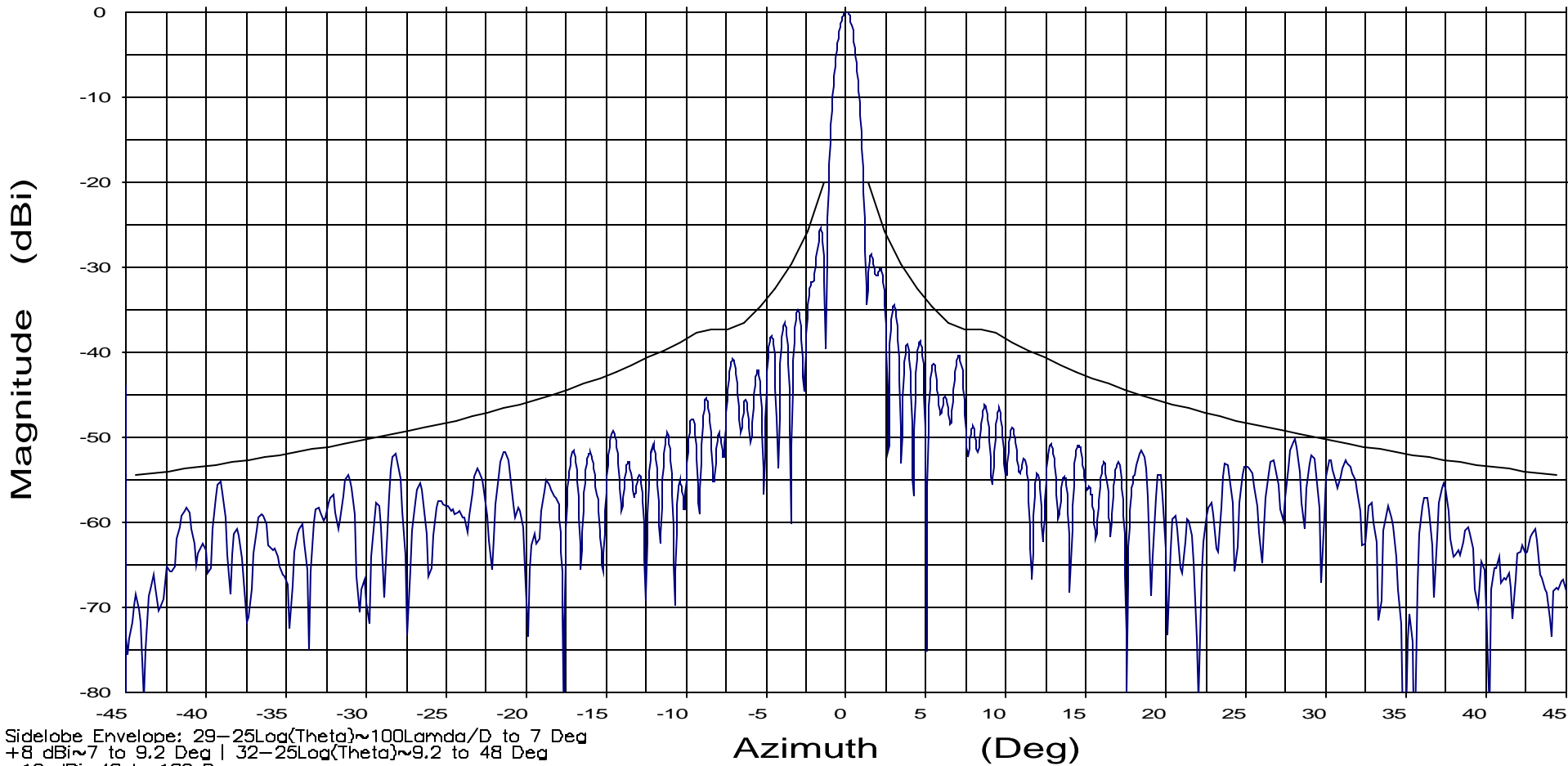
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 11.700 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file
1459-08.dat

units
dBi

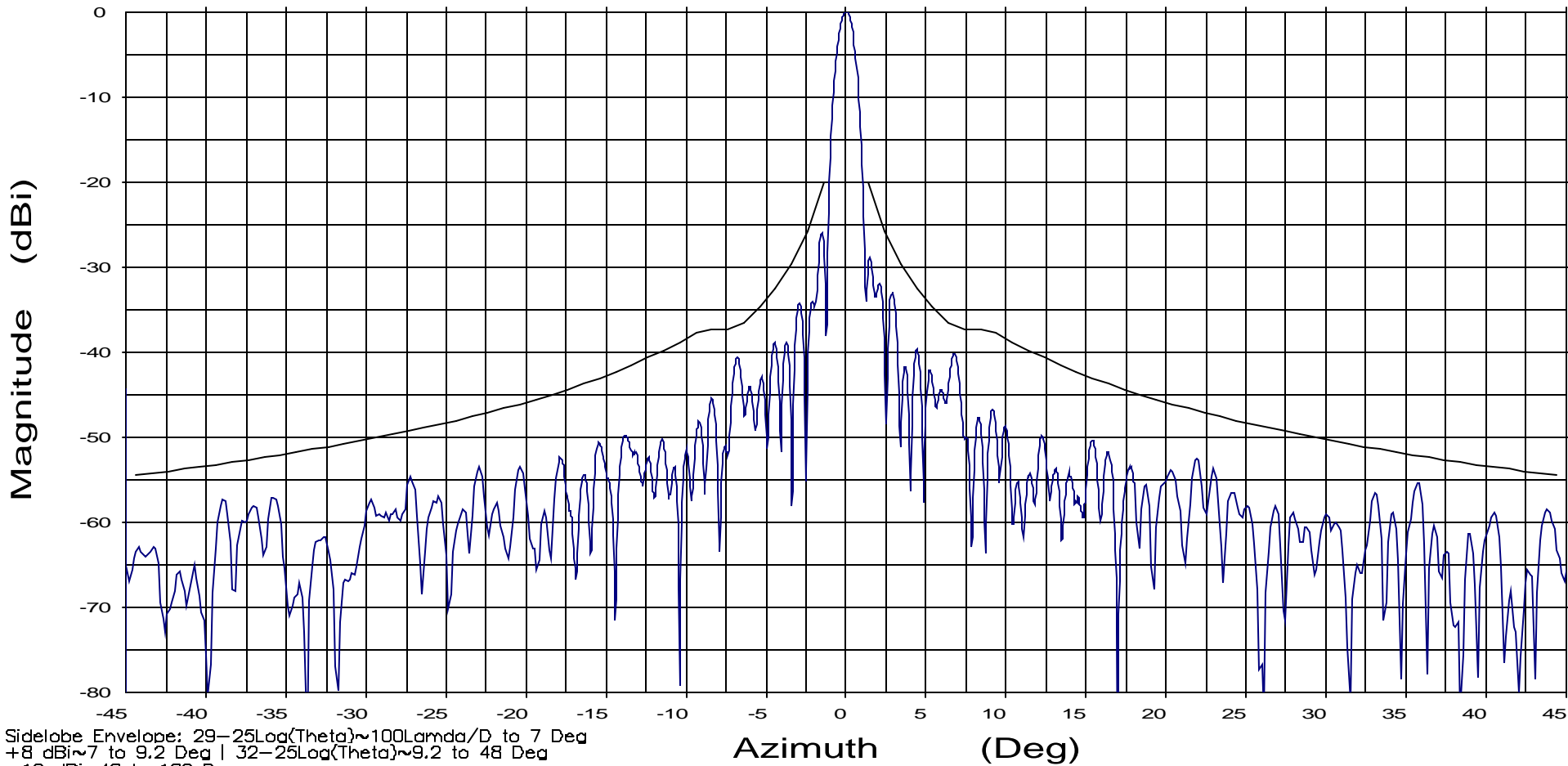
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.200 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file
1459-08.dat

units
dBi

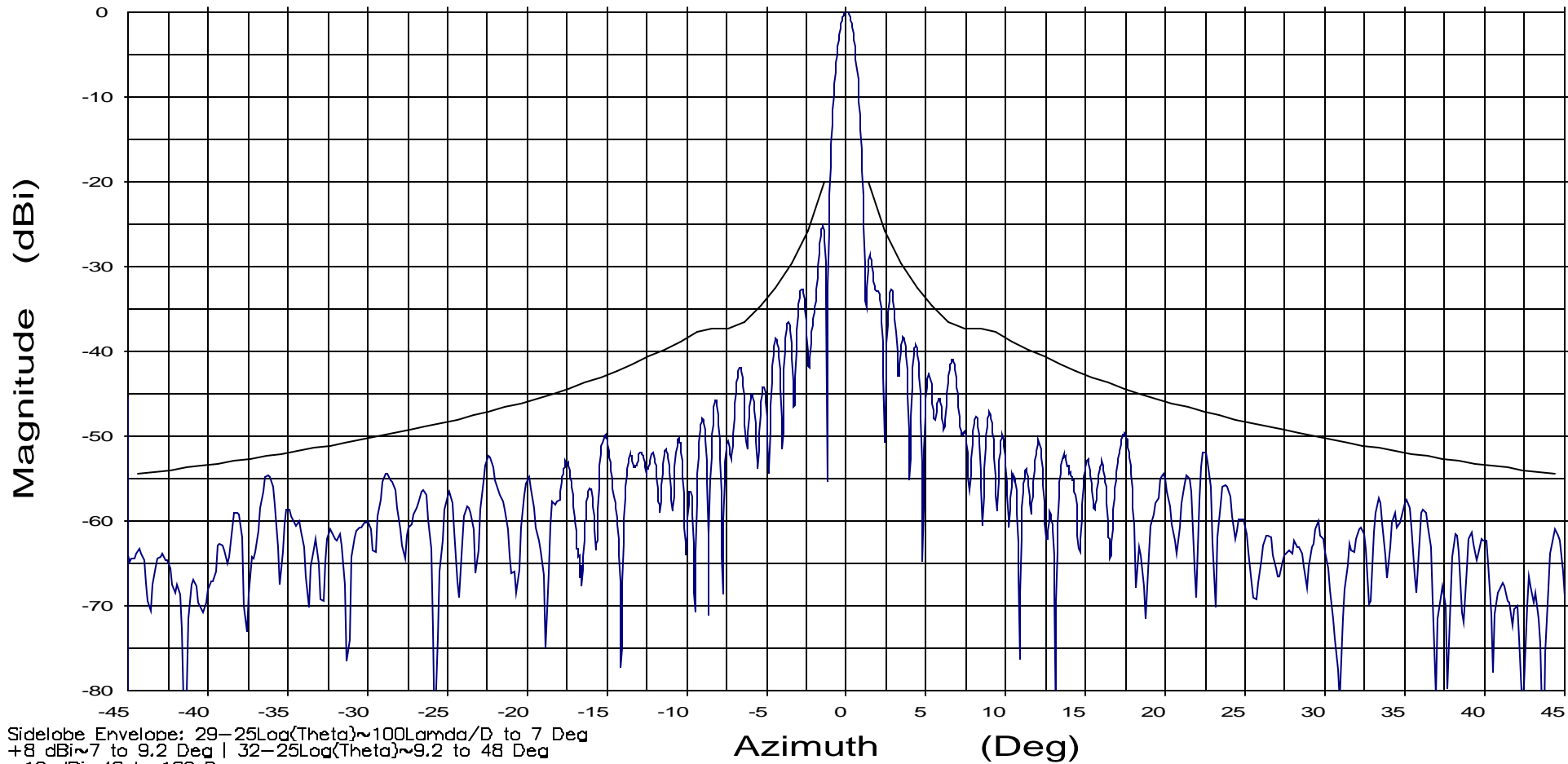
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.450 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file units
1459-08.dat dBi

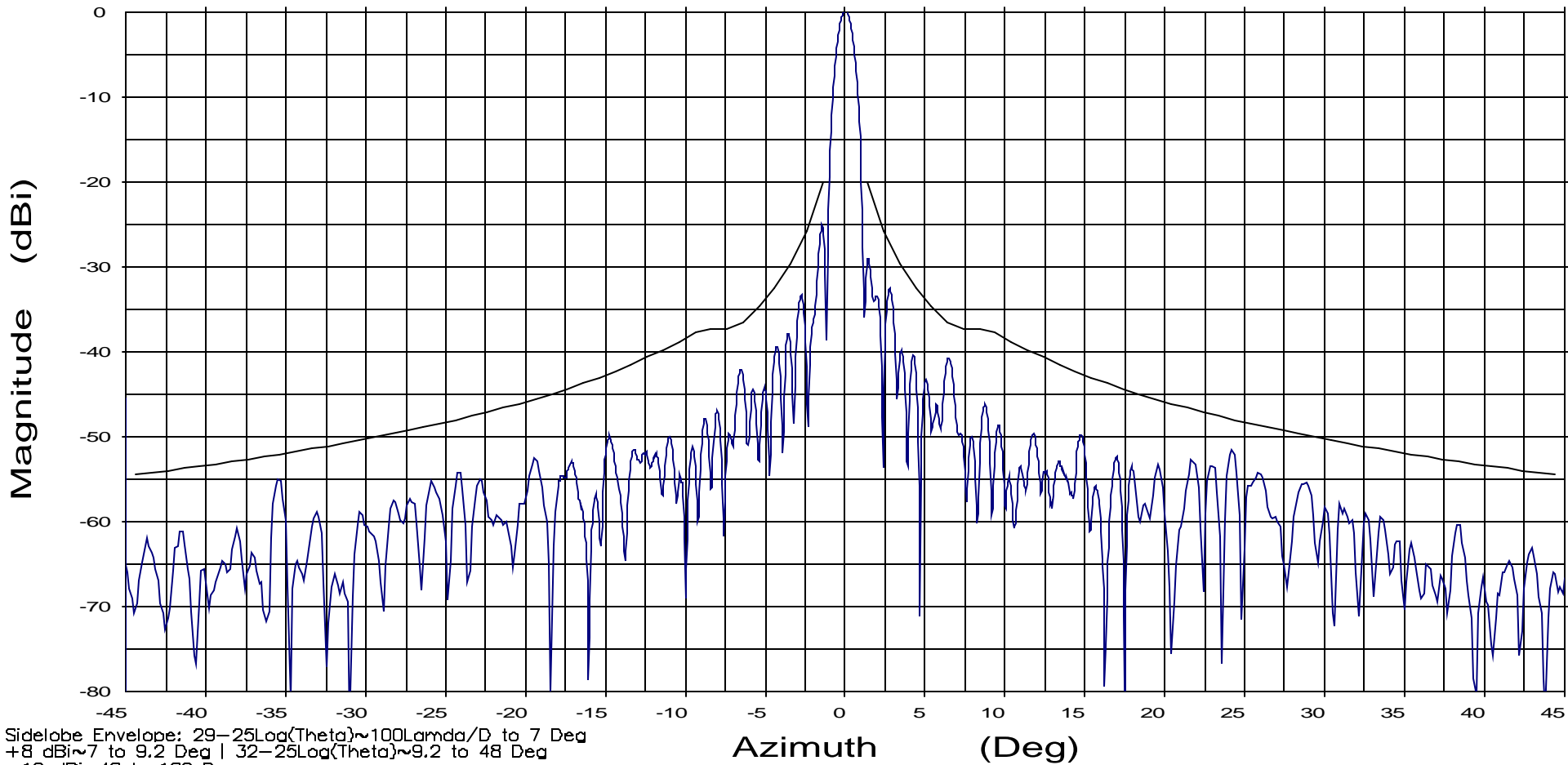
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.750 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file
1459-08.dat

units
dBi

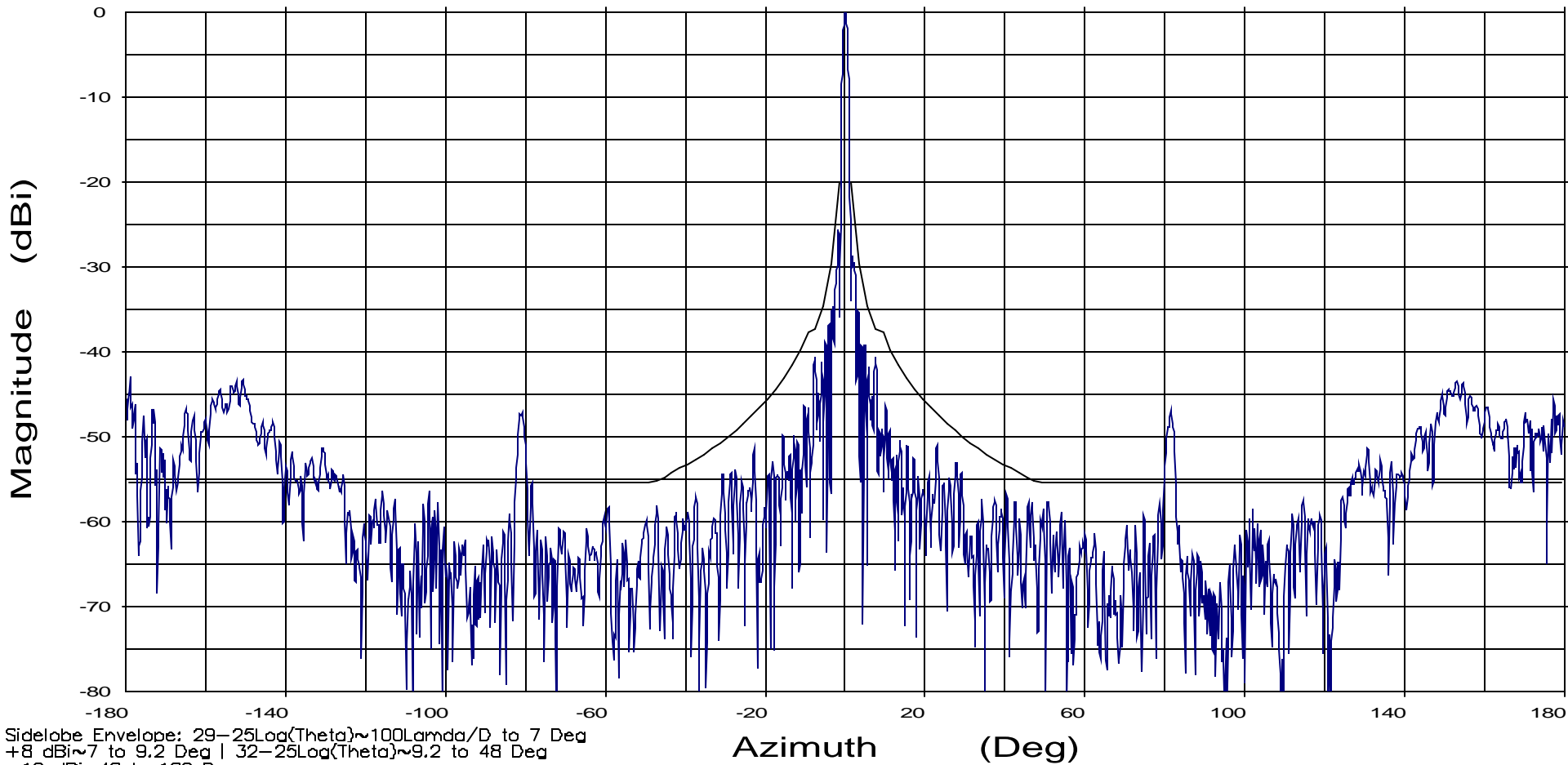
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 10.950 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file units
1459-08.dat dBi

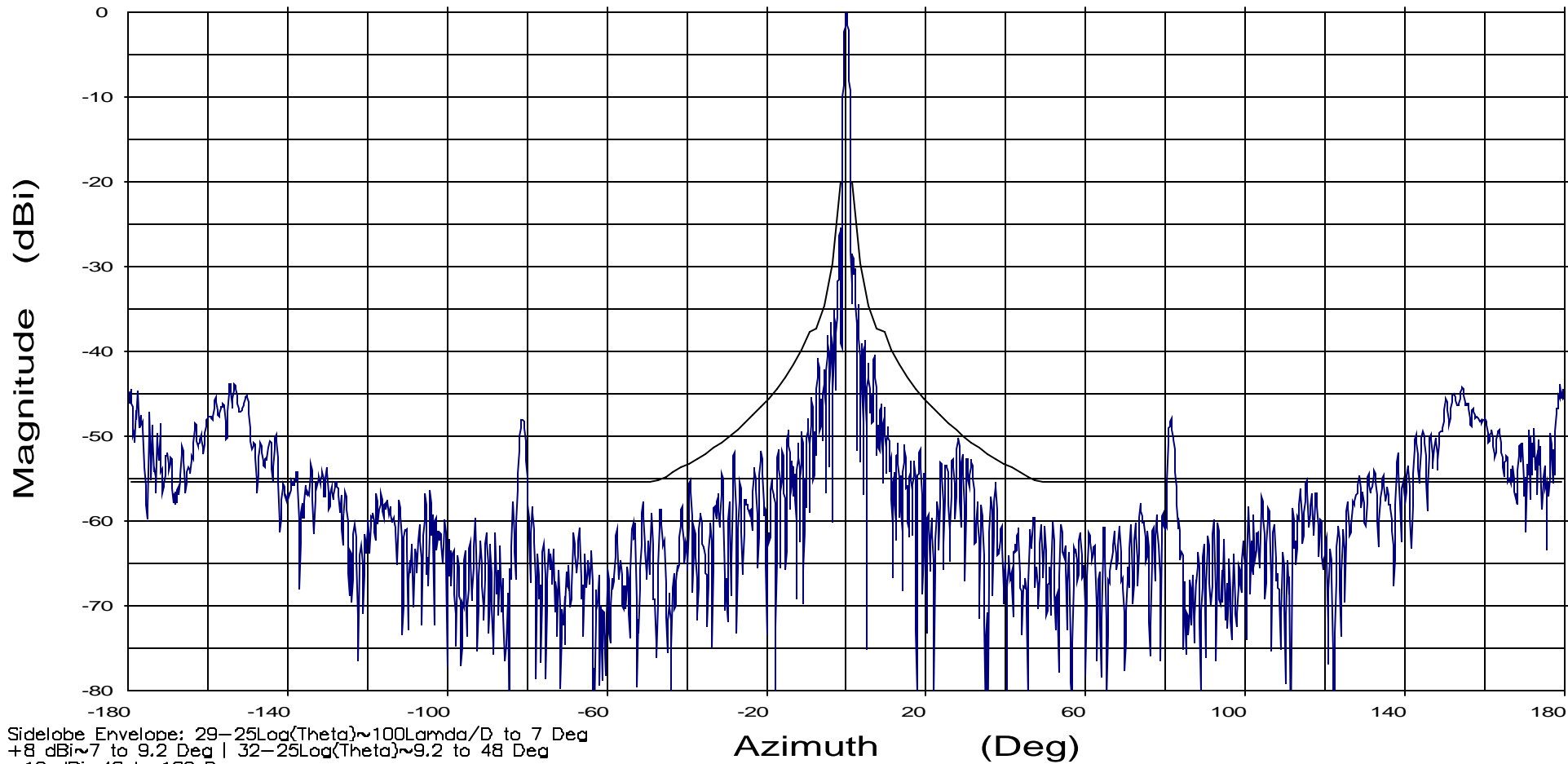
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 11.700 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file
1459-08.dat

units
dBi

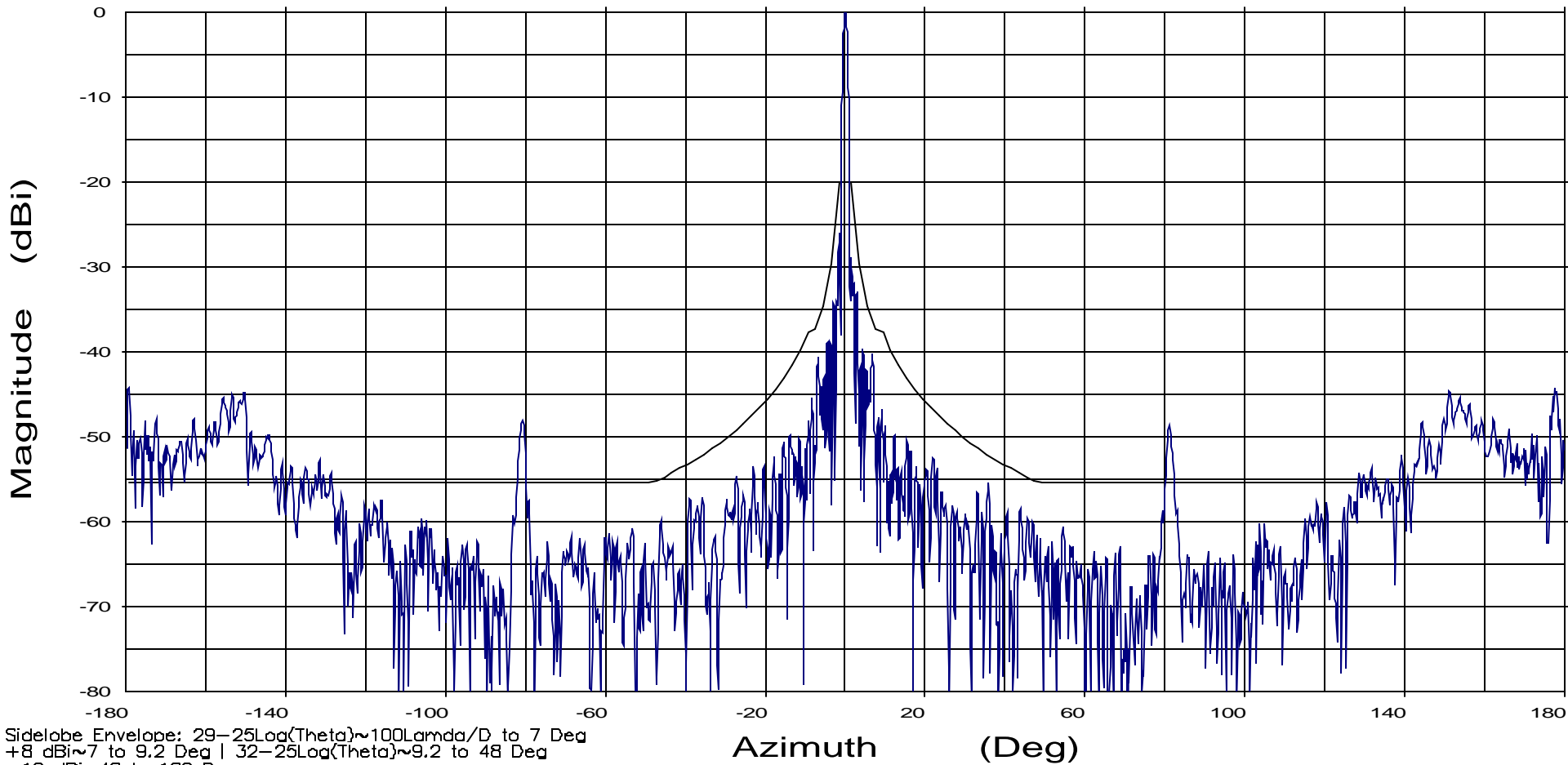
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.200 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file units
1459-08.dat dBi

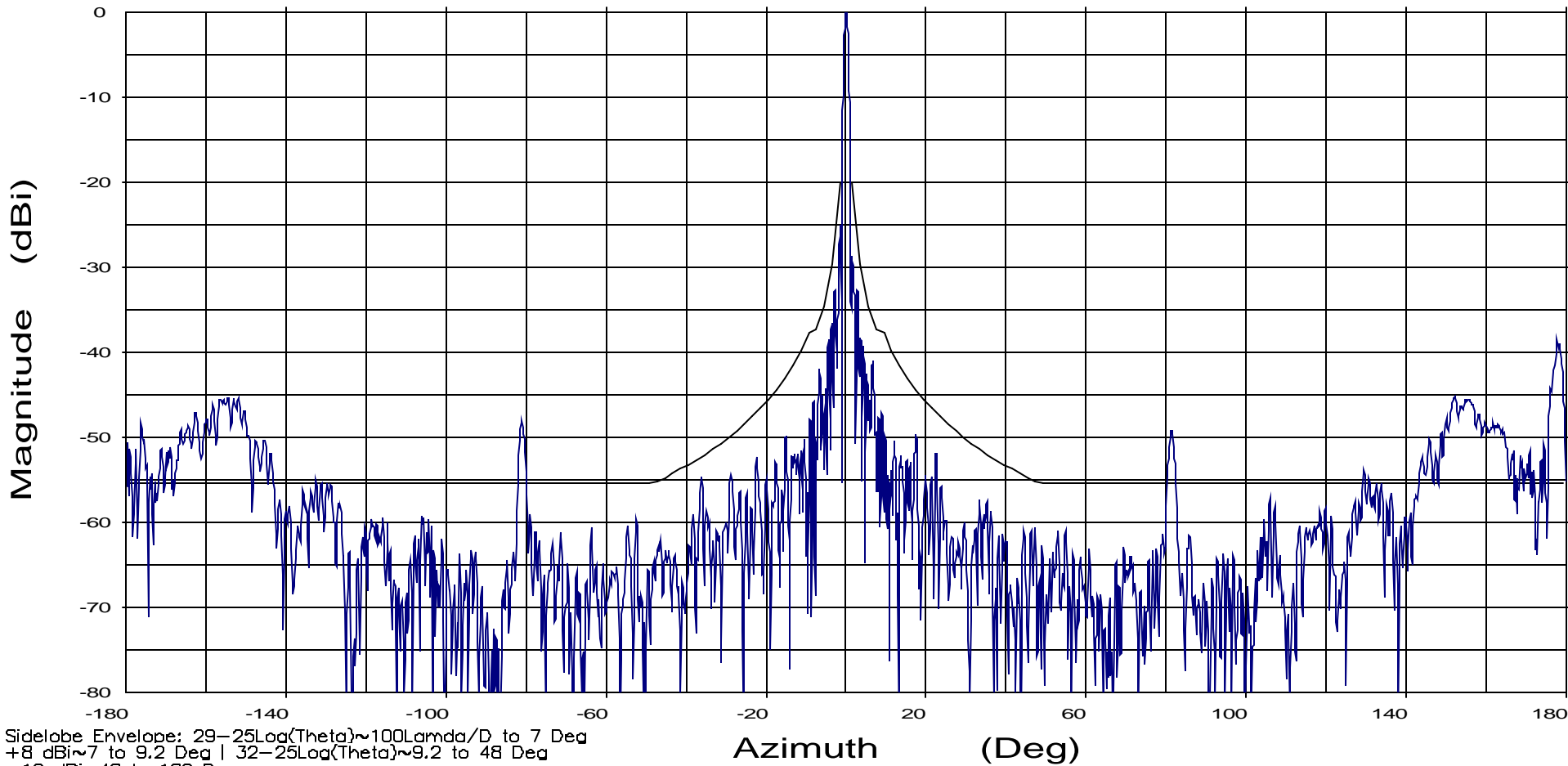
PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.450 GHz

Operator: Keny Poovey
Ser. no.: 1116X05
Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file units
1459-08.dat dBi

PRODELIN 1.8M
SERIES 1194
KU-BAND RX/TX ANTENNA SYSTEM

Frequency : 12.750 GHz

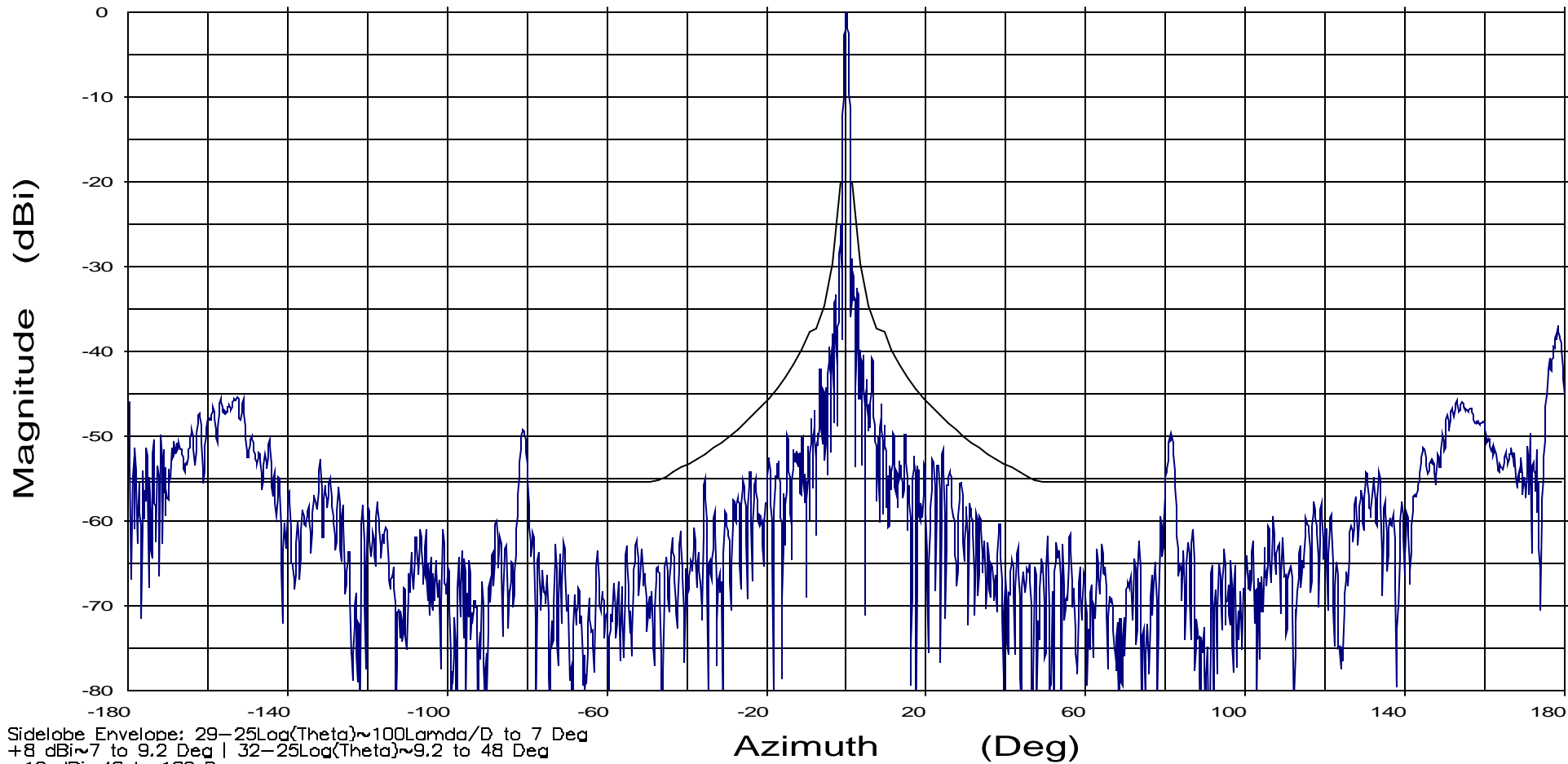
Operator: Keny Poovey

Ser. no.: 1116X05

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Sidelobe Envelope: $29 - 25 \log(\theta) \sim 100 \lambda / D$ to 7 Deg
+8 dBi ~ 7 to 9.2 Deg | $32 - 25 \log(\theta) \sim 9.2$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

Overlays
1459-08.dat-ant_under_test

Cal. file
1459-08.dat

units
dBi