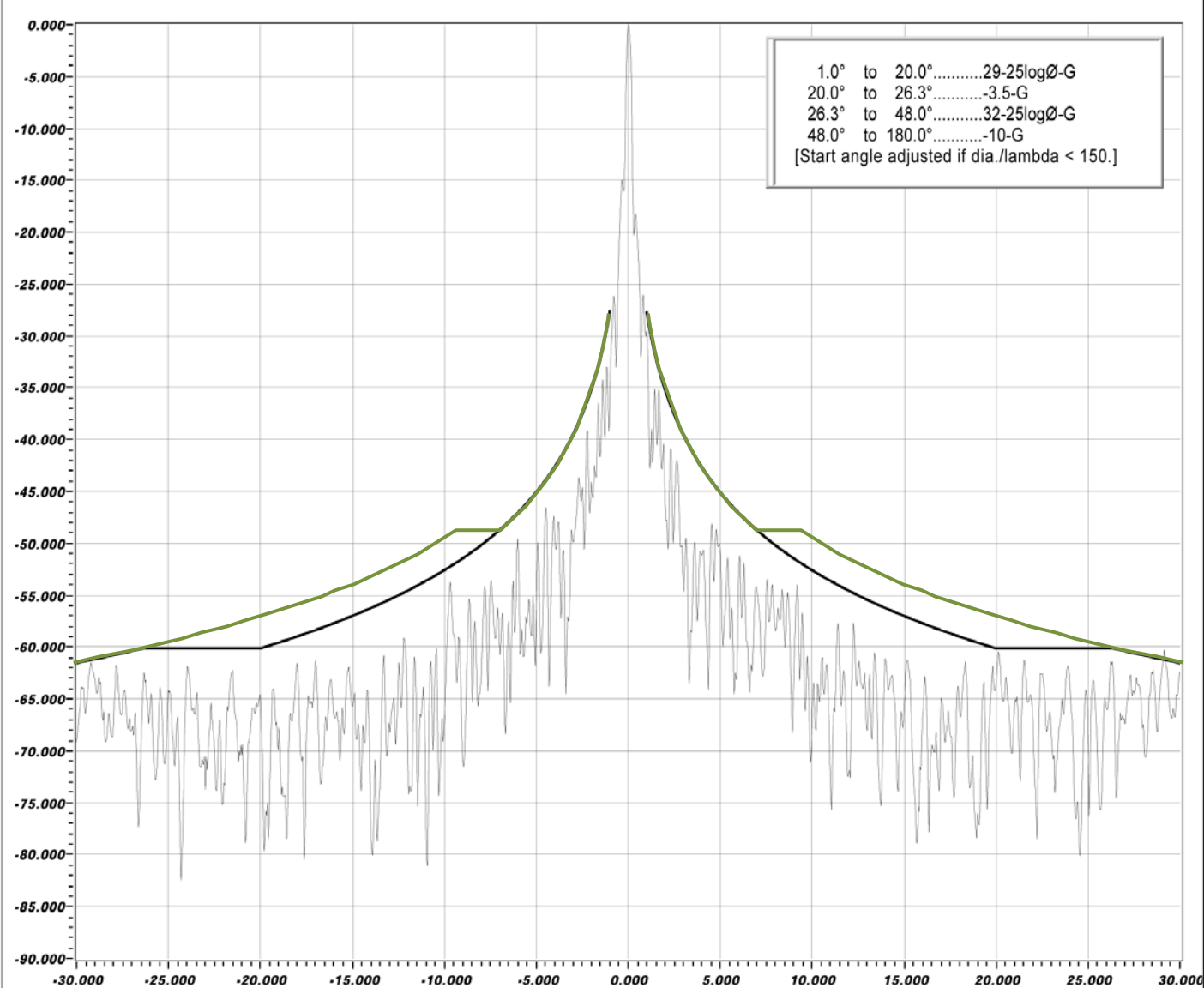


Customer..... GDSatcom Duluth
 Date/Local Time.... 1-19-2010 at 151828
 Job Number..... 13143_03

 Model..... 3.9m Ka
 Location..... Kilgore, Tx
 Weather..... Clear
 Test Engineer.... Zukowski, W. Zuko
 Spacecraft..... Long Range
 Transponder..... NA

RX...Co-pol...LHCP polarization...20.700 GHz

Azimuth

 % Over Curve


Y-scale is power level (dB) relative to beam center; x-scale is angle (degrees, cosine corrected) relative to beam center.

SA Freq (Hz)=20700001748, AZ rate (deg/s)=1.029, EL rate (deg/s)=0.402, RBW (Hz)=30, VBW (Hz)=10

File:	<input type="text" value="% 100119 151828 13143_03 RC-175-LA-20.700.txt"/>	Specified Gain (dB):	<input type="text" value="56.600"/>
Test Frequency (GHz):	<input type="text" value="20.700001748"/>	Azimuth Beam Center (deg):	<input type="text" value="180.080"/>
Ref. Level (dBm):	<input type="text" value="-28.95"/>	Elevation Beam Center (deg):	<input type="text" value="1.870"/>
# Points Displayed:	<input type="text" value="1367"/>	Margin Under Curved (dB):	<input type="text" value="None"/>

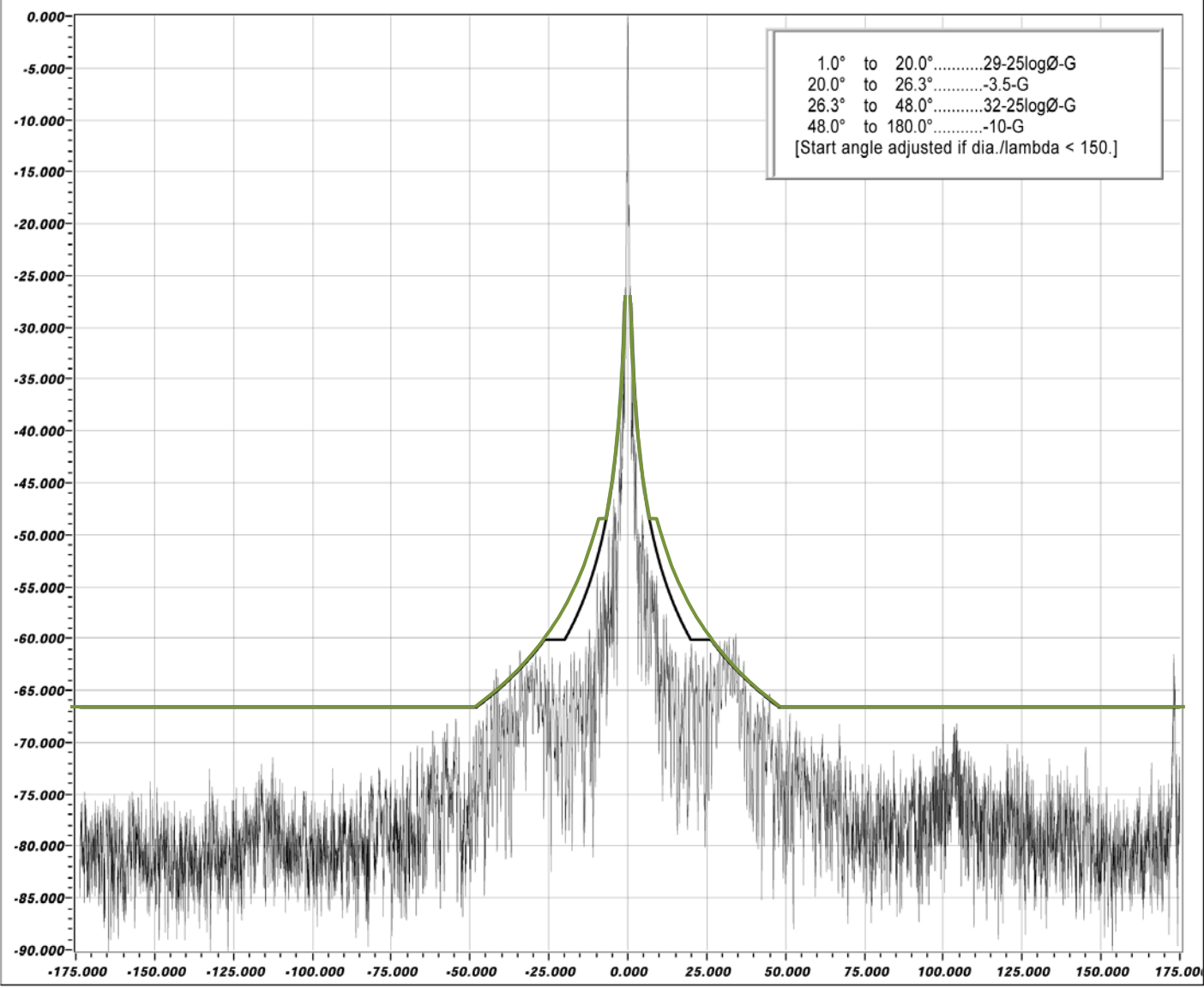
Versions
 61030 FAST
 60129 PACK

Customer..... GDSatcom Duluth
 Date/Local Time.... 1-19-2010 at 151828
 Job Number..... 13143_03

 Model..... 3.9m Ka
 Location..... Kilgore, Tx
 Weather..... Clear
 Test Engineer..... Zukowski, W. Zuko
 Spacecraft..... Long Range
 Transponder..... NA

RX...Co-pol...LHCP polarization...20.700 GHz

Azimuth

 % Over Curve 1.1


Y-scale is power level (dB) relative to beam center; x-scale is angle (degrees, cosine corrected) relative to beam center.

SA Freq (Hz)=20700001748, AZ rate (deg/s)=1.029, EL rate (deg/s)=0.402, RBW (Hz)=30, VBW (Hz)=10

 File: % 100119 151828 13143_03 RC-175-LA-20.700.txt

 Test Frequency (GHz): 20.700001748

 Ref. Level (dBm): -28.95

 # Points Displayed: 8056

 Versions
 61030 FAST
 60129 PACK

 Specified Gain (dB): 56.600

 Azimuth Beam Center (deg): 180.080

 Elevation Beam Center (deg): 1.870

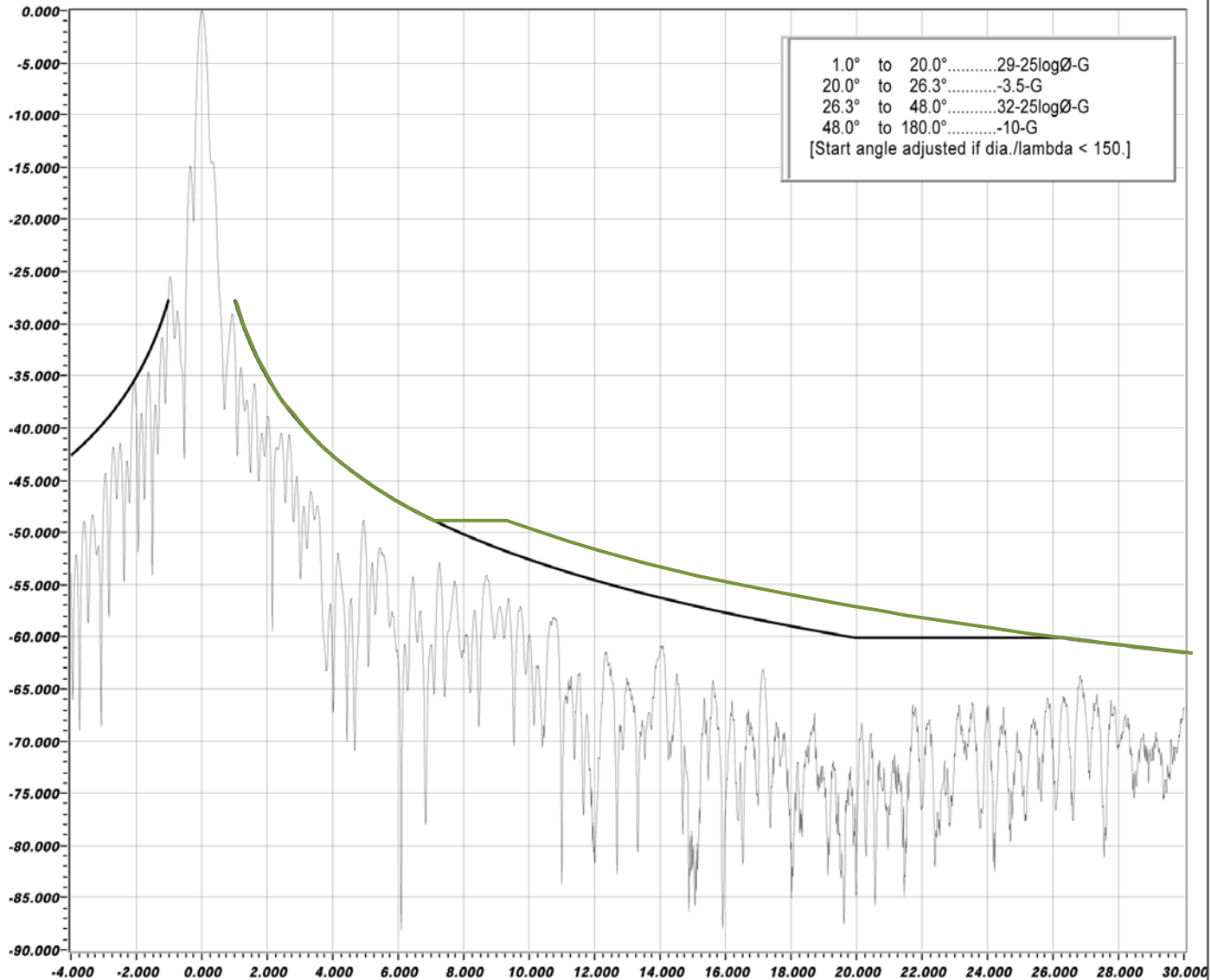
 Margin Under Curved (dB): None

Customer..... GDSatcom Duluth
 Date/Local Time..... 1-19-2010 at 152604
 Job Number..... 13143_03

 Model..... 3.9m Ka
 Location..... Kilgore, Tx
 Weather..... Clear
 Test Engineer..... Zukowski, W. Zuko
 Spacecraft..... Long Range
 Transponder..... NA

RX...Co-pol...LHCP polarization...20.700 GHz

Elevation

 % Over Curve 0.1


Y-scale is power level (dB) relative to beam center; x-scale is angle (degrees, cosine corrected) relative to beam center.

SA Freq (Hz)=20700001748, AZ rate (deg/s)=1.029, EL rate (deg/s)=0.402, RBW (Hz)=30, VBW (Hz)=10

 File: % 100119 152604 13143_03 RC-90-LE-20.700.txt

 Specified Gain: 56.600

 Test Frequency (GHz): 20.700001748

 Azimuth Beam Center (deg): 180.080

 Ref. Level (dBm): -28.73

 Elevation Beam Center (deg): 1.870

 # Points Displayed: 2764

 Margin Under Curve (dB): None

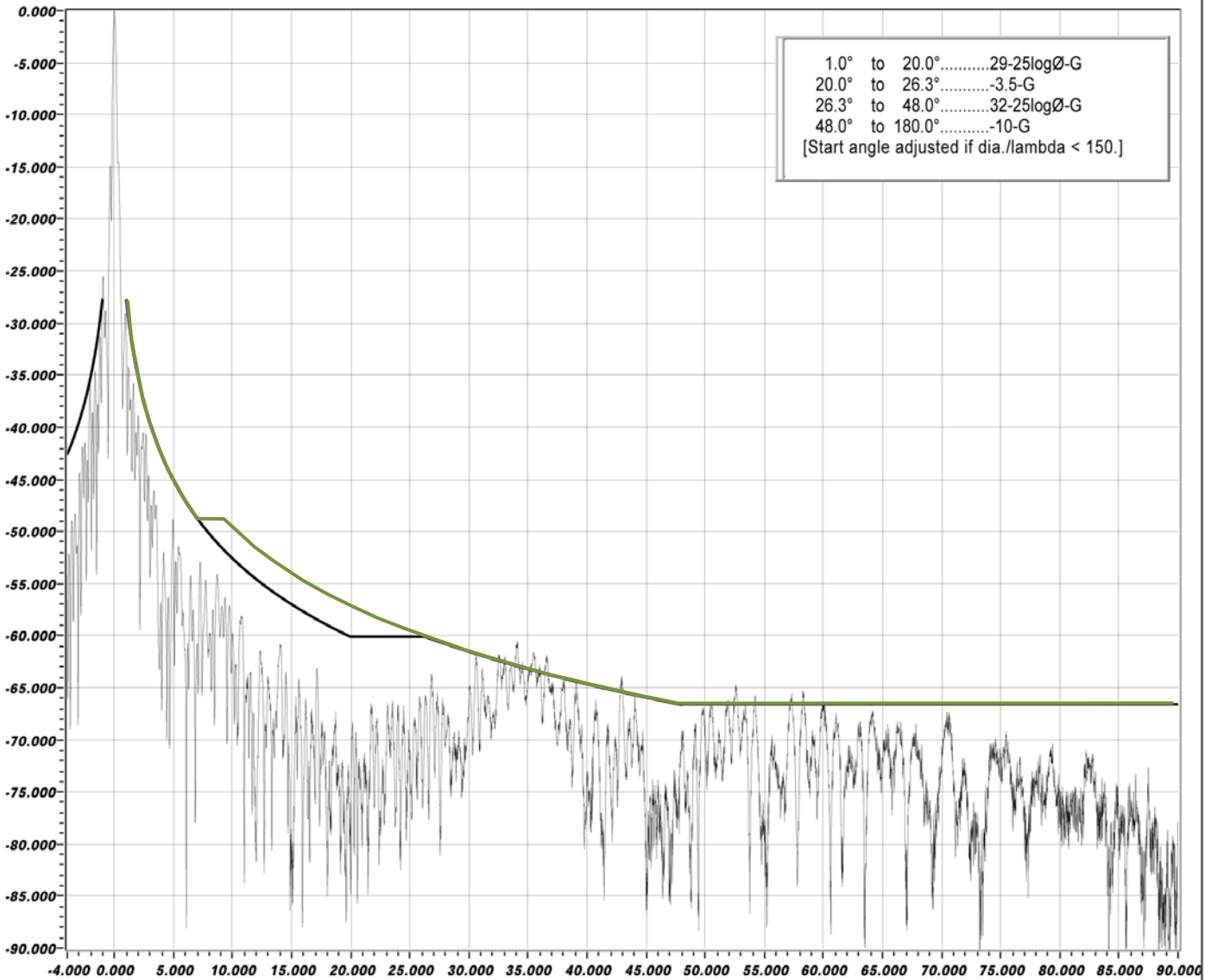
 Versions
 61030 FAST
 60129 PACK

Customer..... GDSatcom Duluth
 Date/Local Time..... 1-19-2010 at 152604
 Job Number..... 13143_03

 Model..... 3.9m Ka
 Location..... Kilgore, Tx
 Weather..... Clear
 Test Engineer..... Zukowski, W. Zuko
 Spacecraft..... Long Range
 Transponder..... NA

RX...Co-pol...LHCP polarization...20.700 GHz

Elevation

 % Over Curve 2.7


Y-scale is power level (dB) relative to beam center; x-scale is angle (degrees, cosine corrected) relative to beam center.

SA Freq (Hz)=20700001748, AZ rate (deg/s)=1.029, EL rate (deg/s)=0.402, RBW (Hz)=30, VBW (Hz)=10

 File: % 100119 152604 13143_03 RC-90-LE-20.700.txt

 Specified Gain: 56.600

 Test Frequency (GHz): 20.700001748

 Azimuth Beam Center (deg): 180.080

 Ref. Level (dBm): -28.73

 Elevation Beam Center (deg): 1.870

 # Points Displayed: 7670

 Margin Under Curve (dB): None

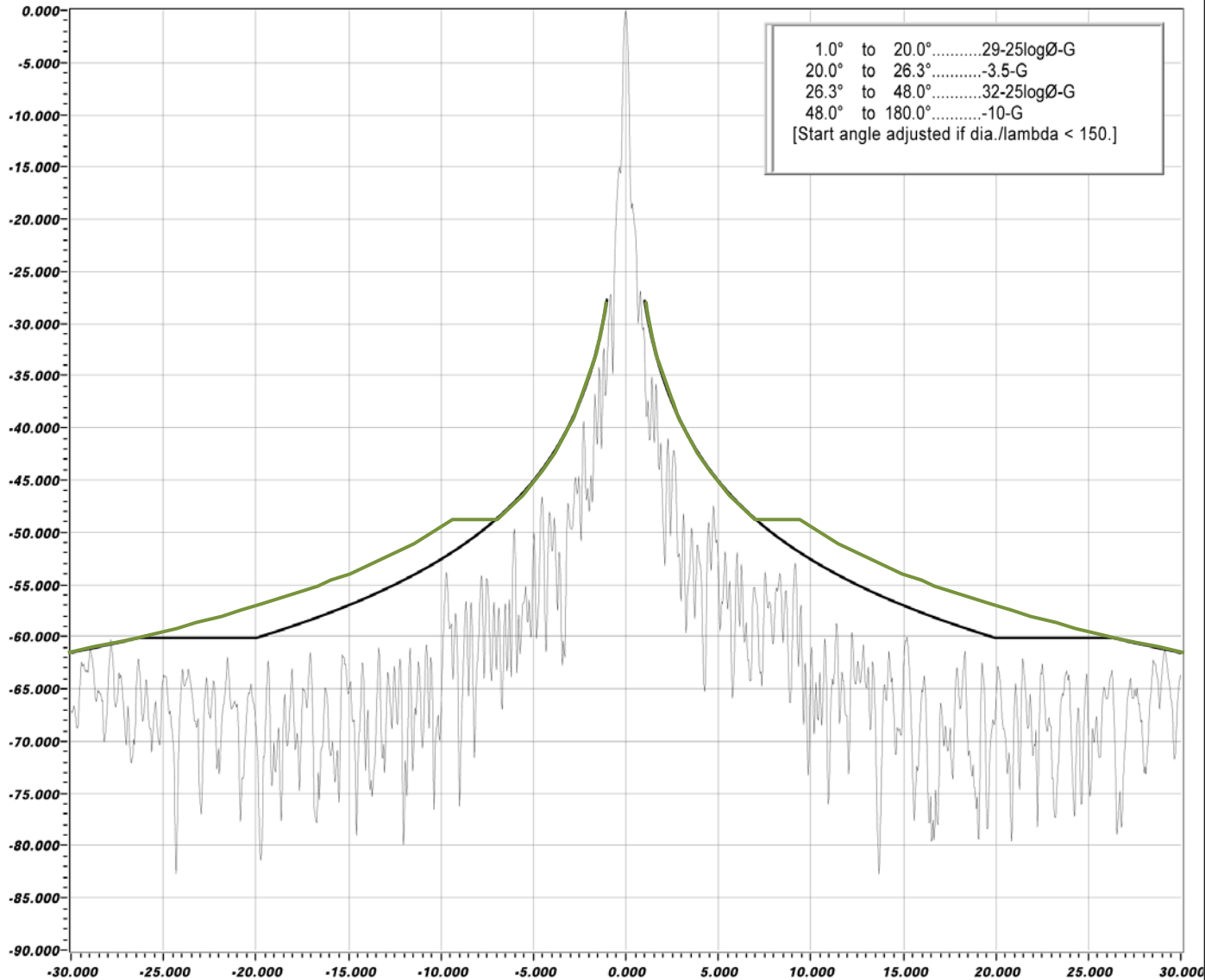
 Versions
 61030 FAST
 60129 PACK

Customer..... GDSatcom Duluth
 Date/Local Time.... 1-19-2010 at 181437
 Job Number..... 13143_03

 Model..... 3.9m Ka
 Location..... Kilgore, Tx
 Weather..... Clear
 Test Engineer..... Zukowski, W. Zuko
 Spacecraft..... Long Range
 Transponder..... NA

RX...Co-pol...RHCP polarization...20.700 GHz

Azimuth

 % Over Curve


Y-scale is power level (dB) relative to beam center; x-scale is angle (degrees, cosine corrected) relative to beam center.

SA Freq (Hz)=20700001749, AZ rate (deg/s)=1.029, EL rate (deg/s)=0.402, RBW (Hz)=30, VBW (Hz)=10

 File:

 Test Frequency (GHz):

 Ref. Level (dBm):

 # Points Displayed:

 Versions
 61030 FAST
 60129 PACK

 Specified Gain (dB):

 Azimuth Beam Center (deg):

 Elevation Beam Center (deg):

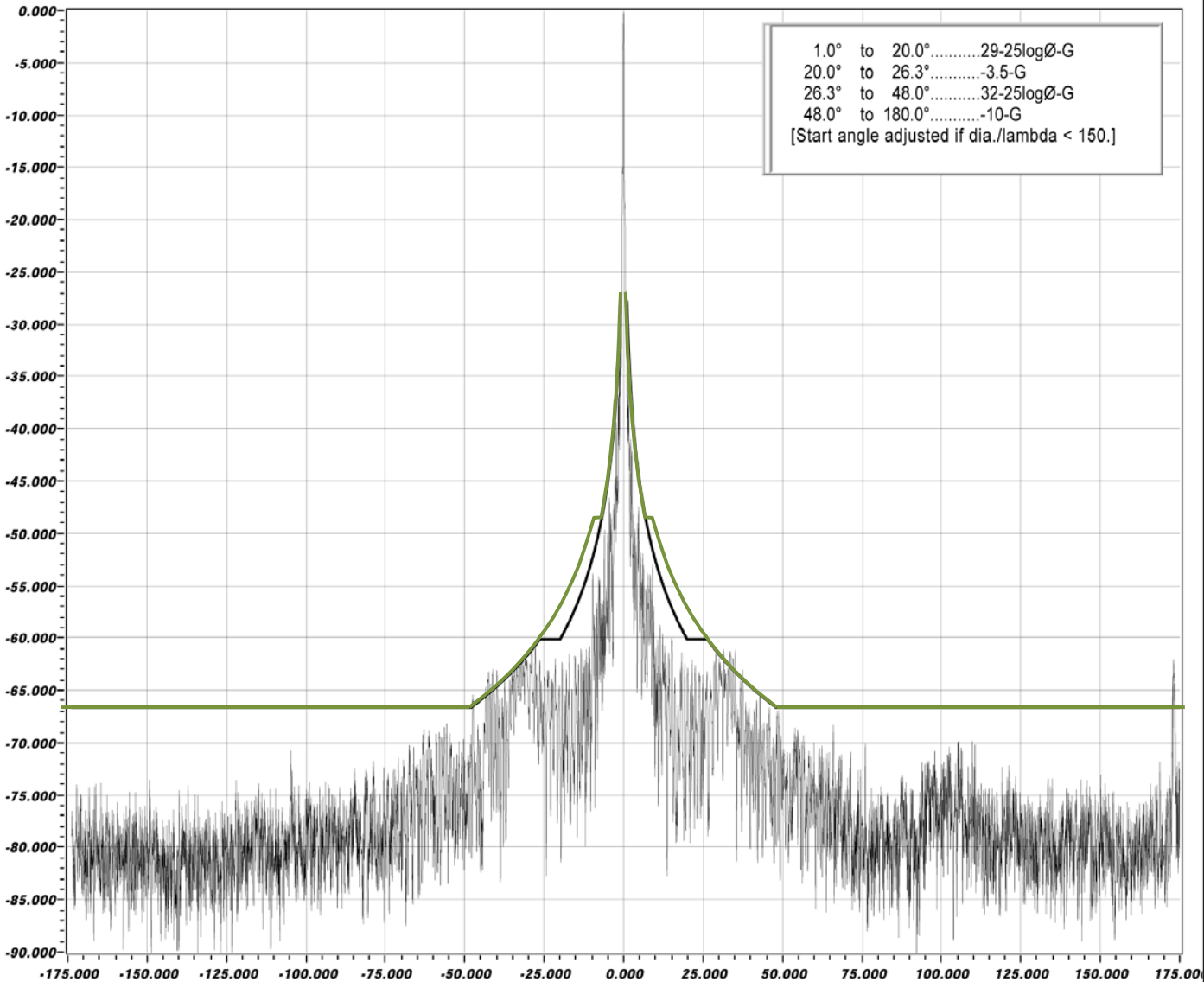
 Margin Under Curved (dB):

Customer..... GDSatcom Duluth
 Date/Local Time.... 1-19-2010 at 181437
 Job Number..... 13143_03

 Model..... 3.9m Ka
 Location..... Kilgore, Tx
 Weather..... Clear
 Test Engineer..... Zukowski, W. Zuko
 Spacecraft..... Long Range
 Transponder..... NA

RX...Co-pol...RHCP polarization...20.700 GHz

Azimuth

 % Over Curve


Y-scale is power level (dB) relative to beam center; x-scale is angle (degrees, cosine corrected) relative to beam center.

SA Freq (Hz)=20700001749, AZ rate (deg/s)=1.029, EL rate (deg/s)=0.402, RBW (Hz)=30, VBW (Hz)=10

 File:

 Test Frequency (GHz):

 Ref. Level (dBm):

 # Points Displayed:

 Versions
 61030 FAST
 60129 PACK

 Specified Gain (dB):

 Azimuth Beam Center (deg):

 Elevation Beam Center (deg):

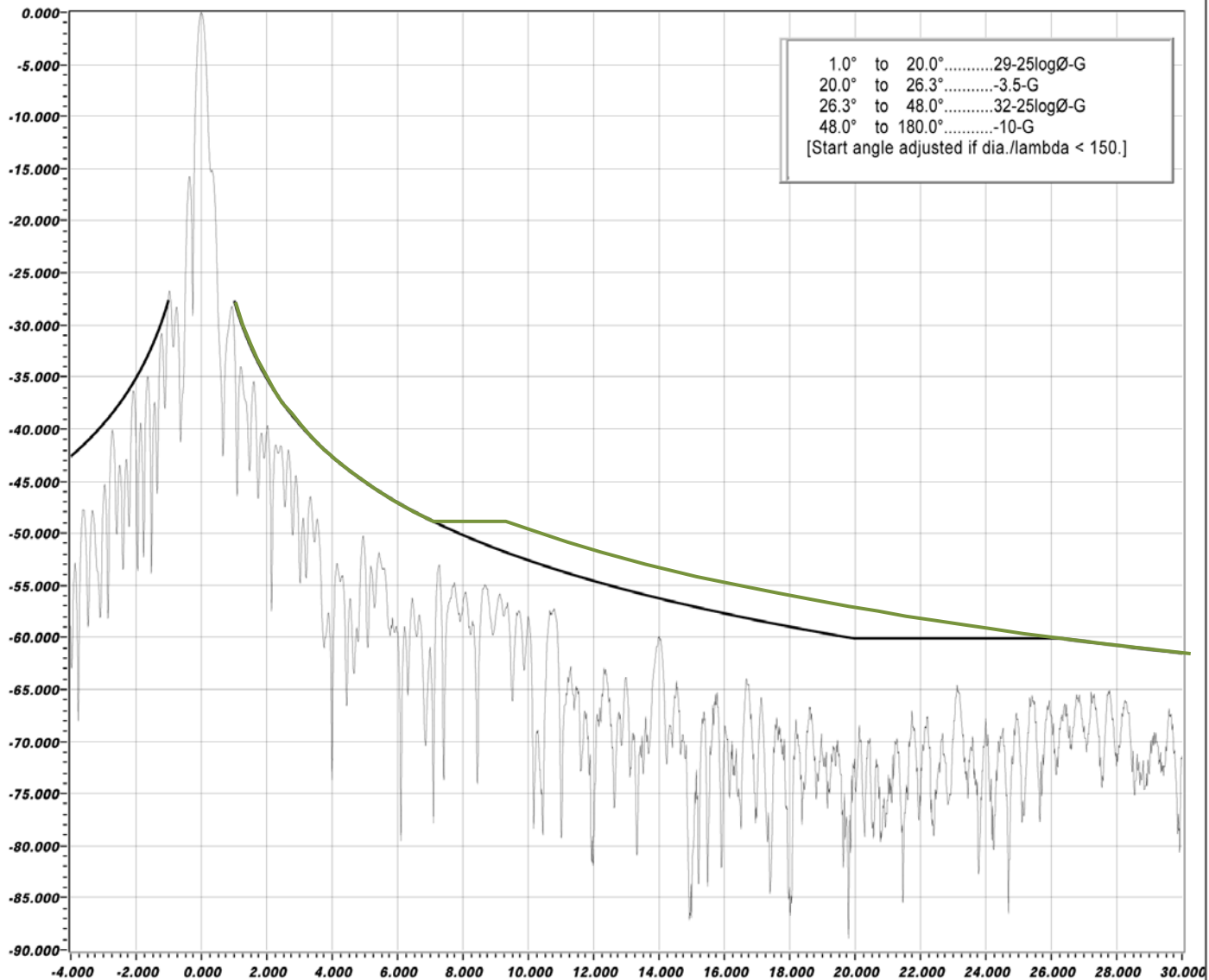
 Margin Under Curved (dB):

Customer..... GDSatcom Duluth
 Date/Local Time..... 1-19-2010 at 182210
 Job Number..... 13143_03

 Model..... 3.9m Ka
 Location..... Kilgore, Tx
 Weather..... Clear
 Test Engineer..... Zukowski, W. Zuko
 Spacecraft..... Long Range
 Transponder..... NA

RX...Co-pol...RHCP polarization...20.700 GHz

Elevation

 % Over Curve


Y-scale is power level (dB) relative to beam center; x-scale is angle (degrees, cosine corrected) relative to beam center.

SA Freq (Hz)=20700001749, AZ rate (deg/s)=1.029, EL rate (deg/s)=0.402, RBW (Hz)=30, VBW (Hz)=10

 File:

 Specified Gain:

 Test Frequency (GHz):

 Azimuth Beam Center (deg):

 Ref. Level (dBm):

 Elevation Beam Center (deg):

 # Points Displayed:

 Margin Under Curve (dB):

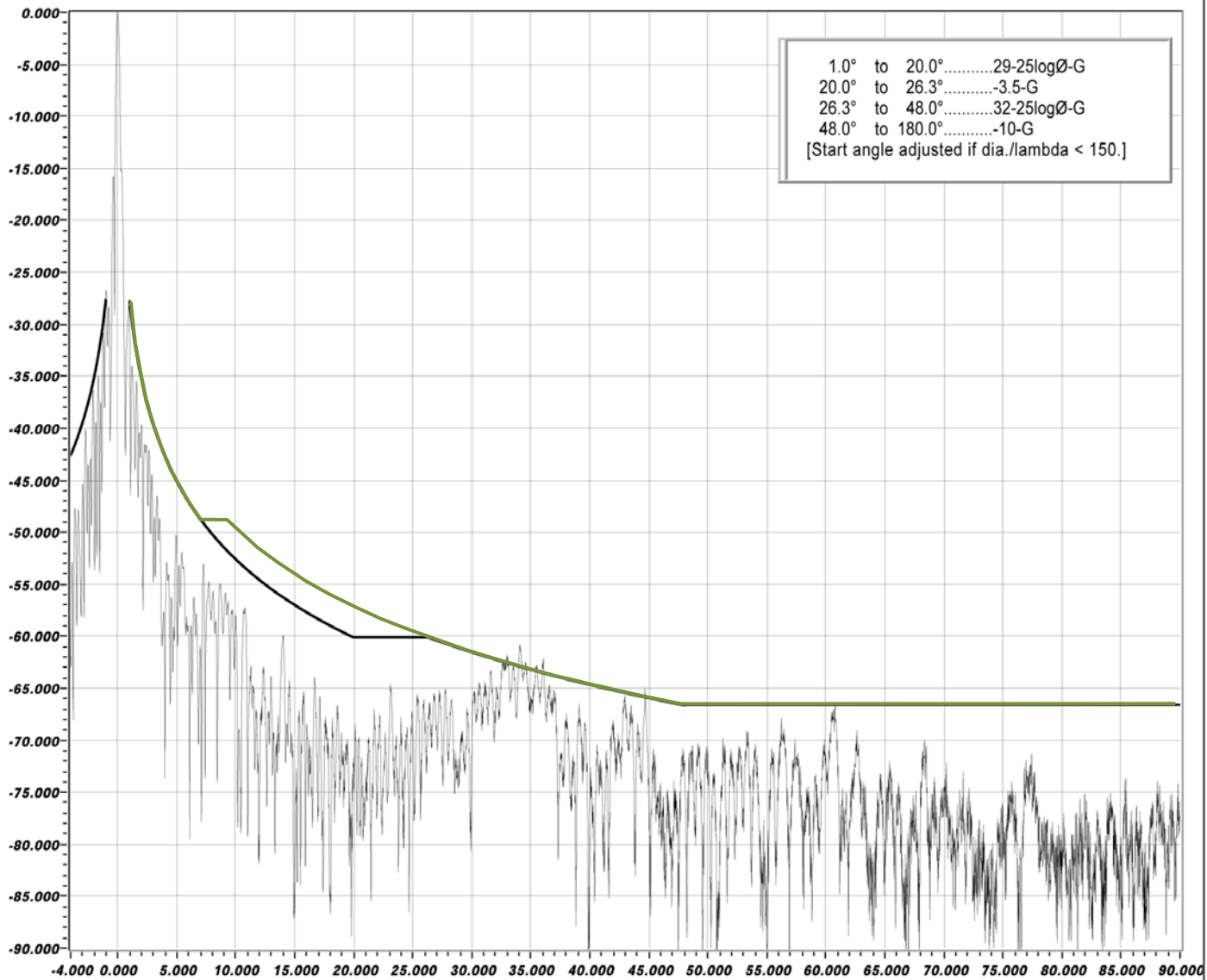
 Versions
 61030 FAST
 60129 PACK

Customer..... GDSatcom Duluth
 Date/Local Time..... 1-19-2010 at 182210
 Job Number..... 13143_03

 Model..... 3.9m Ka
 Location..... Kilgore, Tx
 Weather..... Clear
 Test Engineer..... Zukowski, W. Zuko
 Spacecraft..... Long Range
 Transponder..... NA

RX...Co-pol...RHCP polarization...20.700 GHz

Elevation

 % Over Curve


Y-scale is power level (dB) relative to beam center; x-scale is angle (degrees, cosine corrected) relative to beam center.

SA Freq (Hz)=20700001749, AZ rate (deg/s)=1.029, EL rate (deg/s)=0.402, RBW (Hz)=30, VBW (Hz)=10

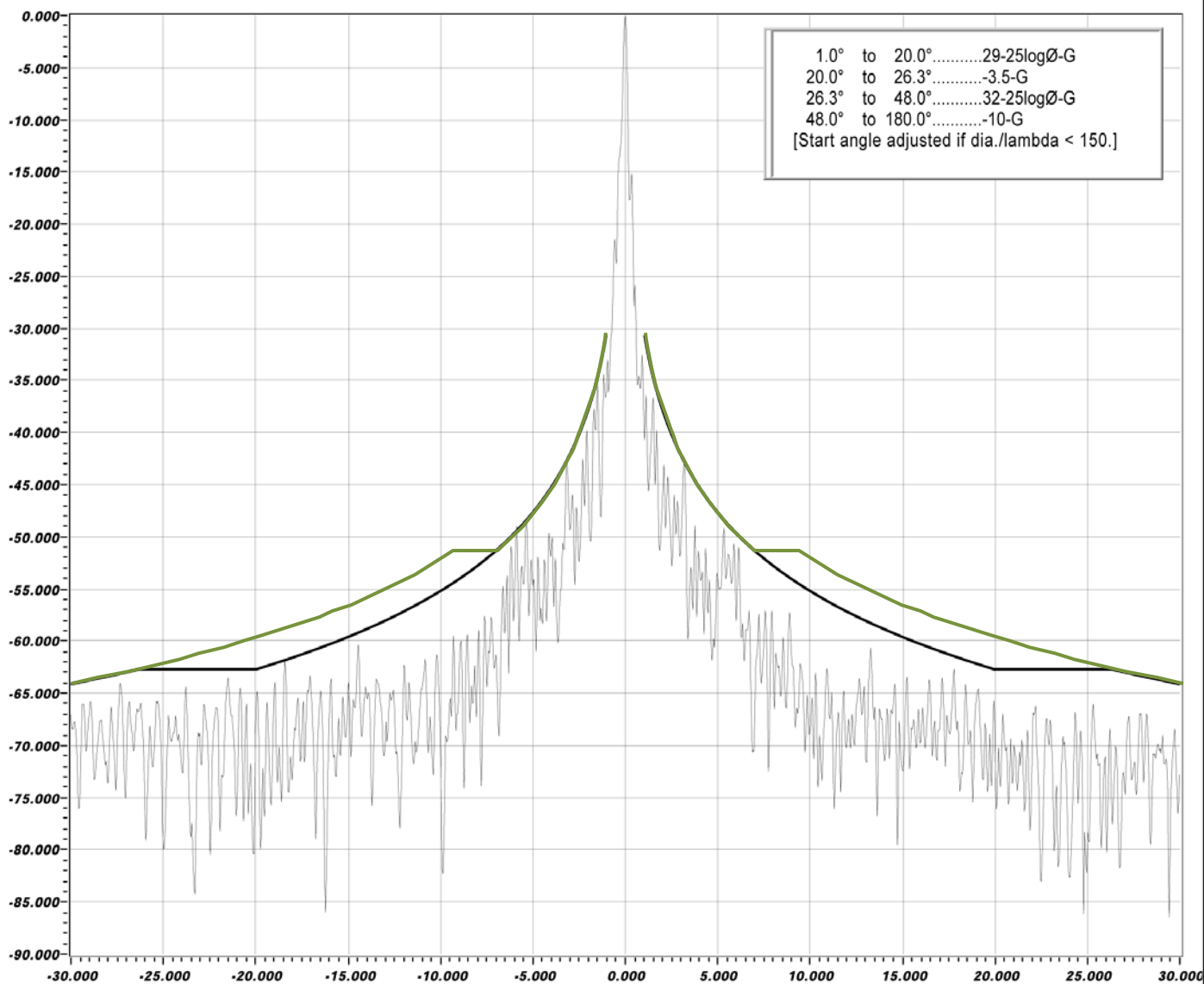
File:	<input type="text" value="% 100119 182210 13143_03 RC-90-RE-20.700.txt"/>	Specified Gain:	<input type="text" value="56.600"/>
Test Frequency (GHz):	<input type="text" value="20.700001749"/>	Azimuth Beam Center (deg):	<input type="text" value="180.080"/>
Ref. Level (dBm):	<input type="text" value="-28.39"/>	Elevation Beam Center (deg):	<input type="text" value="1.870"/>
# Points Displayed:	<input type="text" value="7642"/>	Margin Under Curve (dB):	<input type="text" value="None"/>

Customer..... GDSatcom Duluth
 Date/Local Time.... 1-19-2010 at 110008
 Job Number..... 13143_03

 Model..... 3.9m Ka
 Location..... Kilgore, Tx
 Weather..... Clear
 Test Engineer..... Zukowski, W. Zuko
 Spacecraft..... Long Range
 Transponder..... NA

TX...Co-pol...LHCP polarization...30.500 GHz

Azimuth

 % Over Curve


Y-scale is power level (dB) relative to beam center; x-scale is angle (degrees, cosine corrected) relative to beam center.

SA Freq (Hz)=30500002664, AZ rate (deg/s)=1.029, EL rate (deg/s)=0.402, RBW (Hz)=30, VBW (Hz)=10

 File:

 Test Frequency (GHz):

 Ref. Level (dBm):

 # Points Displayed:

 Versions
 61030 FAST
 60129 PACK

 Specified Gain (dB):

 Azimuth Beam Center (deg):

 Elevation Beam Center (deg):

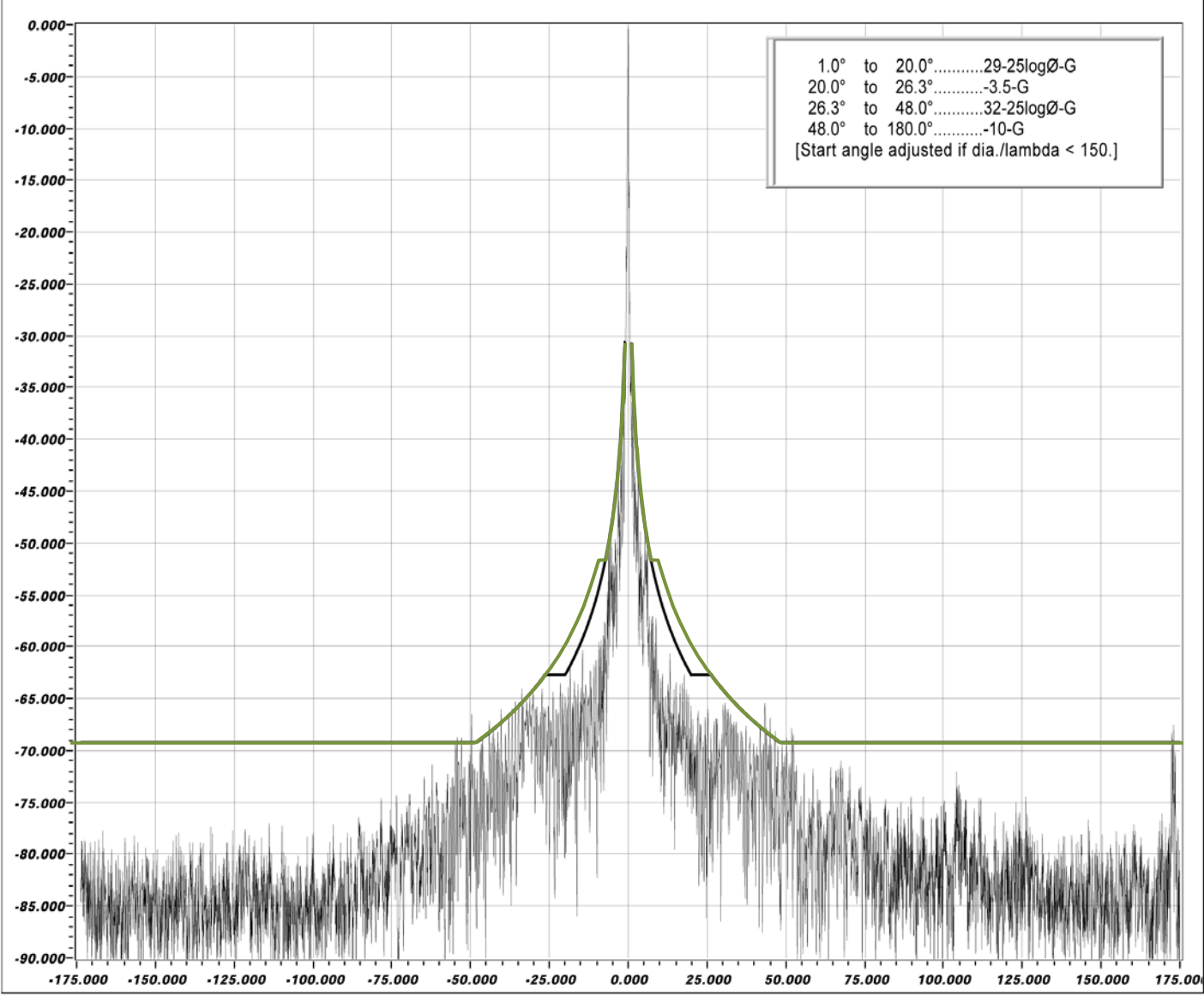
 Margin Under Curved (dB):

Customer..... GDSatcom Duluth
 Date/Local Time.... 1-19-2010 at 110008
 Job Number..... 13143_03

 Model..... 3.9m Ka
 Location..... Kilgore, Tx
 Weather..... Clear
 Test Engineer..... Zukowski, W. Zuko
 Spacecraft..... Long Range
 Transponder..... NA

TX...Co-pol...LHCP polarization...30.500 GHz

Azimuth

 % Over Curve


Y-scale is power level (dB) relative to beam center; x-scale is angle (degrees, cosine corrected) relative to beam center.

SA Freq (Hz)=30500002664, AZ rate (deg/s)=1.029, EL rate (deg/s)=0.402, RBW (Hz)=30, VBW (Hz)=10

File:	<input type="text" value="% 100119 110008 13143_03 TC-175-LA-30.500.txt"/>	Specified Gain (dB):	<input type="text" value="59.200"/>
Test Frequency (GHz):	<input type="text" value="30.500002664"/>	Azimuth Beam Center (deg):	<input type="text" value="180.080"/>
Ref. Level (dBm):	<input type="text" value="-37.43"/>	Elevation Beam Center (deg):	<input type="text" value="1.870"/>
# Points Displayed:	<input type="text" value="8091"/>	Margin Under Curved (dB):	<input type="text" value="None"/>

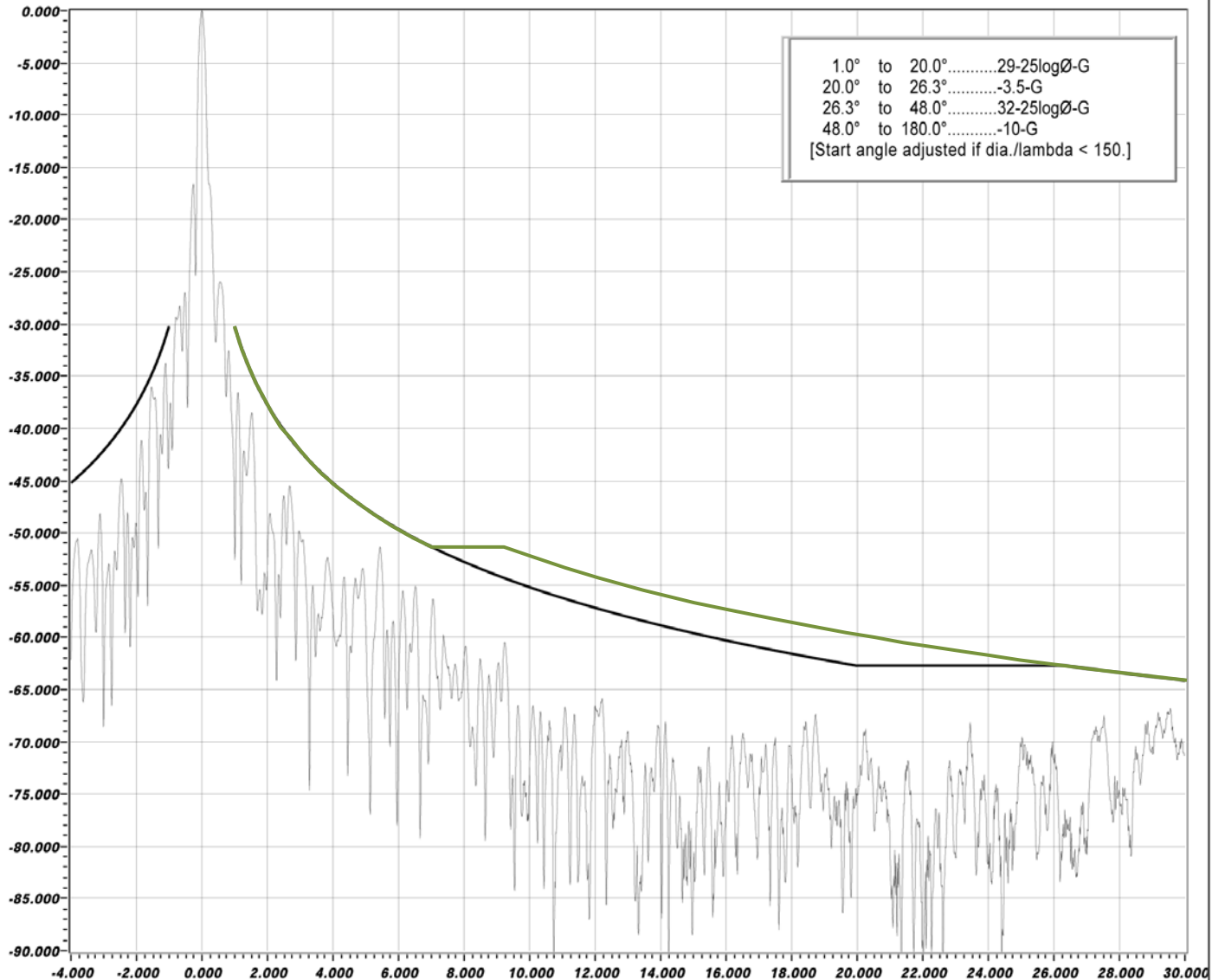
Versions
 61030 FAST
 60129 PACK

Customer..... GDSatcom Duluth
 Date/Local Time..... 1-19-2010 at 110743
 Job Number..... 13143_03

 Model..... 3.9m Ka
 Location..... Kilgore, Tx
 Weather..... Clear
 Test Engineer..... Zukowski, W. Zuko
 Spacecraft..... Long Range
 Transponder..... NA

TX...Co-pol...LHCP polarization...30.500 GHz

Elevation

 % Over Curve


Y-scale is power level (dB) relative to beam center; x-scale is angle (degrees, cosine corrected) relative to beam center.

SA Freq (Hz)=30500002664, AZ rate (deg/s)=1.029, EL rate (deg/s)=0.402, RBW (Hz)=30, VBW (Hz)=10

File:	<input type="text" value="% 100119 110743 13143_03 TC-90-LE-30.500.txt"/>	Specified Gain:	<input type="text" value="59.200"/>
Test Frequency (GHz):	<input type="text" value="30.500002664"/>	Azimuth Beam Center (deg):	<input type="text" value="180.080"/>
Ref. Level (dBm):	<input type="text" value="-36.43"/>	Elevation Beam Center (deg):	<input type="text" value="1.870"/>
# Points Displayed:	<input type="text" value="2772"/>	Margin Under Curve (dB):	<input type="text" value="1.20"/>

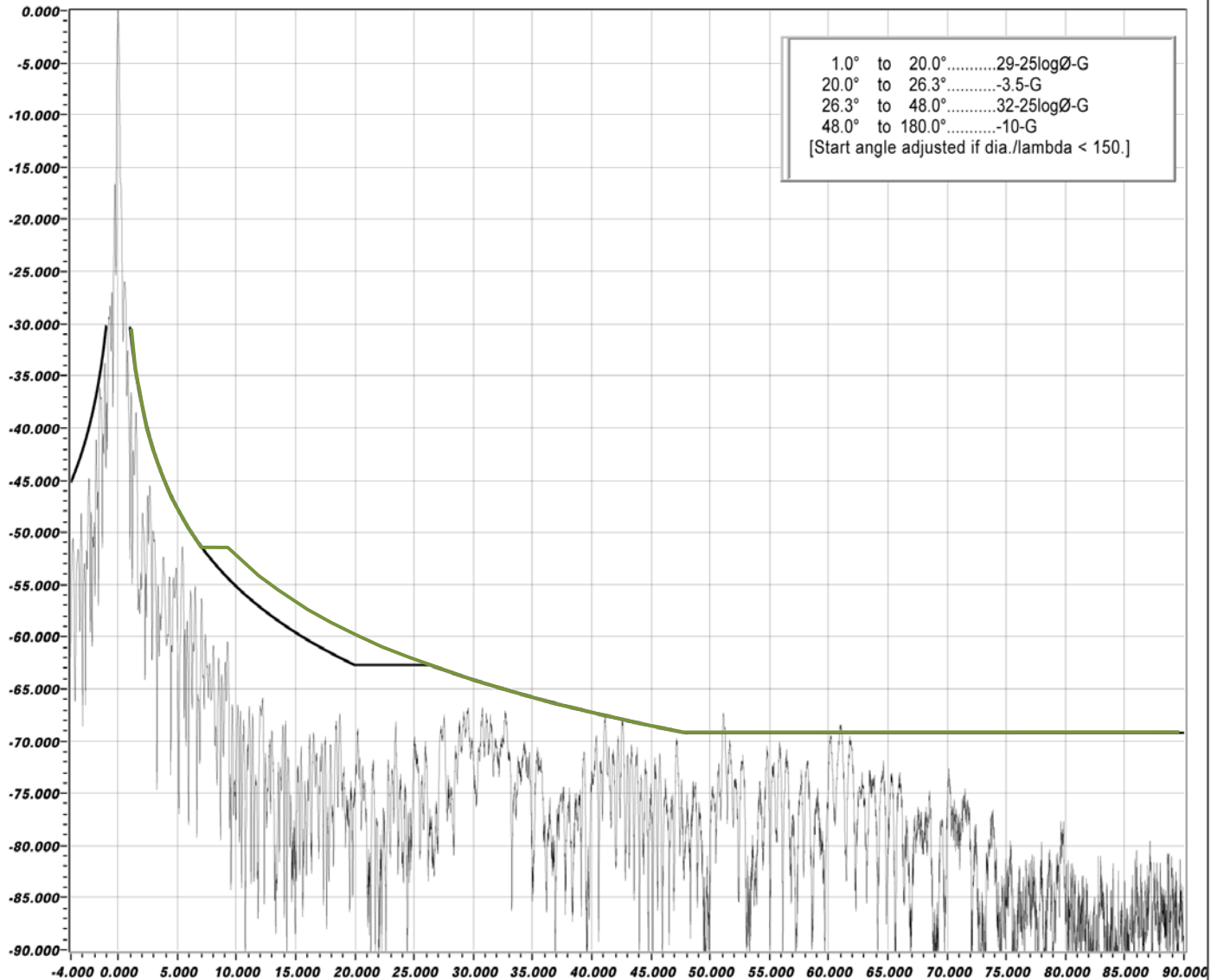
 Versions
 61030 FAST
 60129 PACK

Customer..... GDSatcom Duluth
 Date/Local Time..... 1-19-2010 at 110743
 Job Number..... 13143_03

 Model..... 3.9m Ka
 Location..... Kilgore, Tx
 Weather..... Clear
 Test Engineer..... Zukowski, W. Zuko
 Spacecraft..... Long Range
 Transponder..... NA

TX...Co-pol...LHCP polarization...30.500 GHz

Elevation

 % Over Curve


Y-scale is power level (dB) relative to beam center; x-scale is angle (degrees, cosine corrected) relative to beam center.

SA Freq (Hz)=30500002664, AZ rate (deg/s)=1.029, EL rate (deg/s)=0.402, RBW (Hz)=30, VBW (Hz)=10

 File:

 Specified Gain:

 Test Frequency (GHz):

 Azimuth Beam Center (deg):

 Ref. Level (dBm):

 Elevation Beam Center (deg):

 # Points Displayed:

 Margin Under Curve (dB):

 Versions
 61030 FAST
 60129 PACK