



Document no:
SWE-DISH-03:010

IPT Suitcase

Procedure:

Antenna range measurement

Antenna no:
**XC90-66K
073-03**

Function:
Antenna Plots

R

Prepared by: Olsson Christer	Approved by:	Sign:	Encl:0	Date issued: 2003.07.22
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Product Type	SWE-DISH IPT Suitcase
Antenna Serial No	073-3
Configuration	Ku-band (Tx: 14.0-14.5 GHz, Rx: 10.95-12.75 GHz)
Measurement site / antenna range	Arboga, Sweden / AMPA
Environmental condition - wind	Calm
Environmental condition - rain	No
Environmental condition - temperature	+19°C
Measurement date	01/07 2003
Responsible test engineer	Olsson Christer



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1 General information

1.1 Notes

The test results of this test report relate exclusively to the item specified in 1.4. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the Federal Office for SWE-DISH Satellite Systems AB.

1.2 Testing laboratory

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Contact: Peter Ericsson
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1.3 Antenna development

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Hälsingegatan 40 P.O. Box 6495
S-113 82 Stockholm
Sweden
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1.4 Test item

Description of test item:
Type identification:

Microwave Reflector antenna - Gregorian elliptic dual offset, 4 piece
IPT suitcase antenna – XC90-66K

Equipment	Type	Serial number
Reflector system	P.3 SDSS-design	073-03
OMT + tx-reject filter	Mitec	C27948



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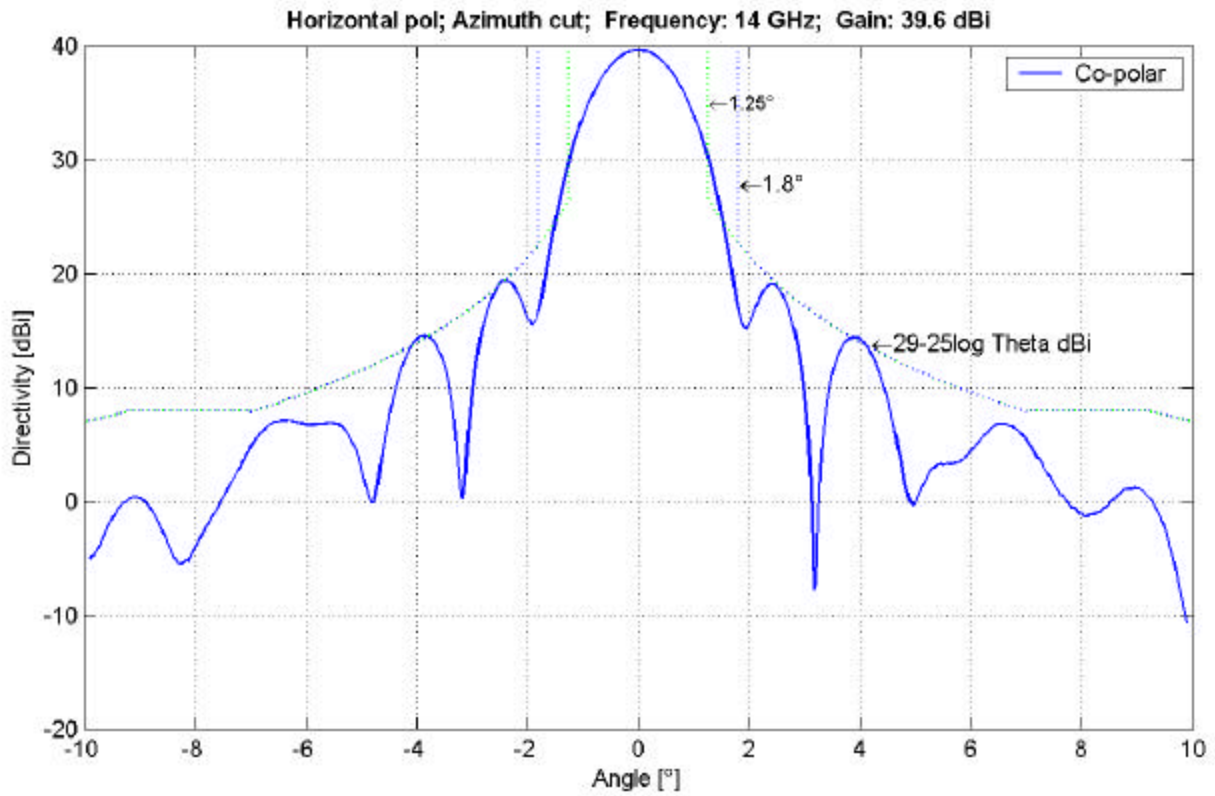
R

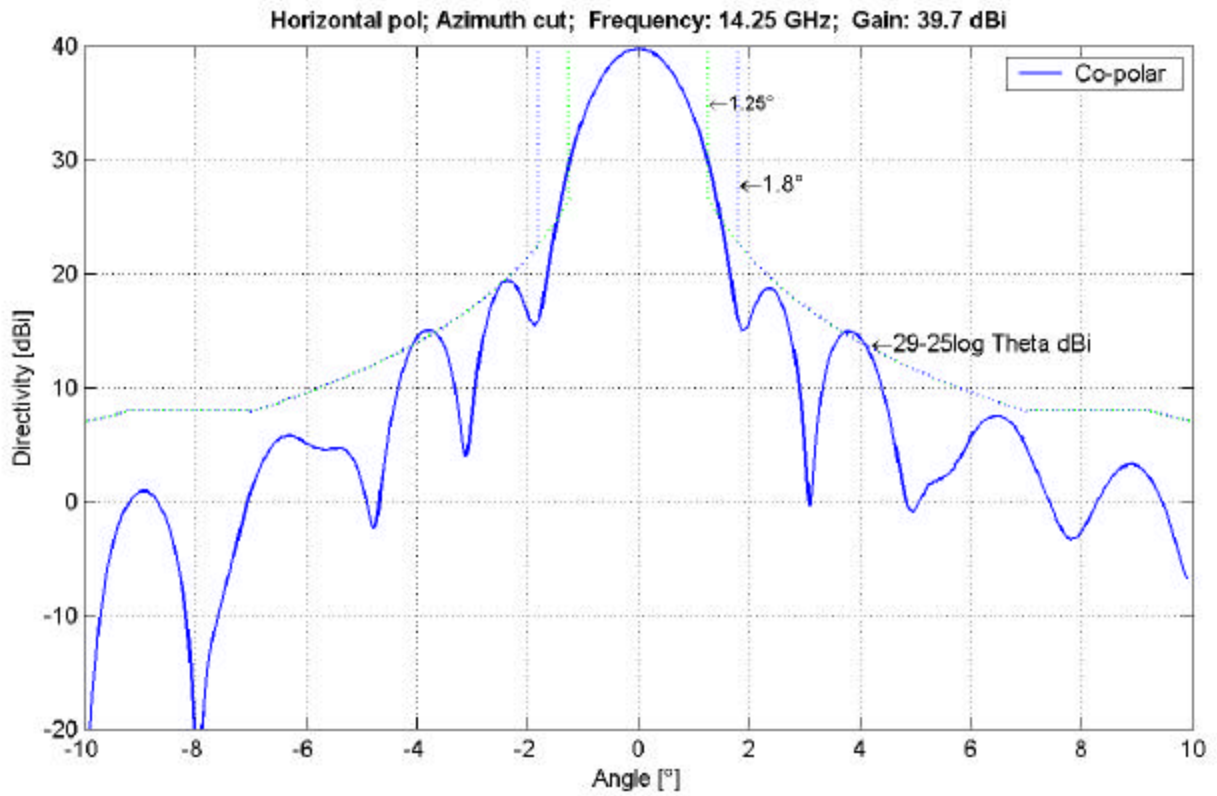
1.4.1 Operating conditions

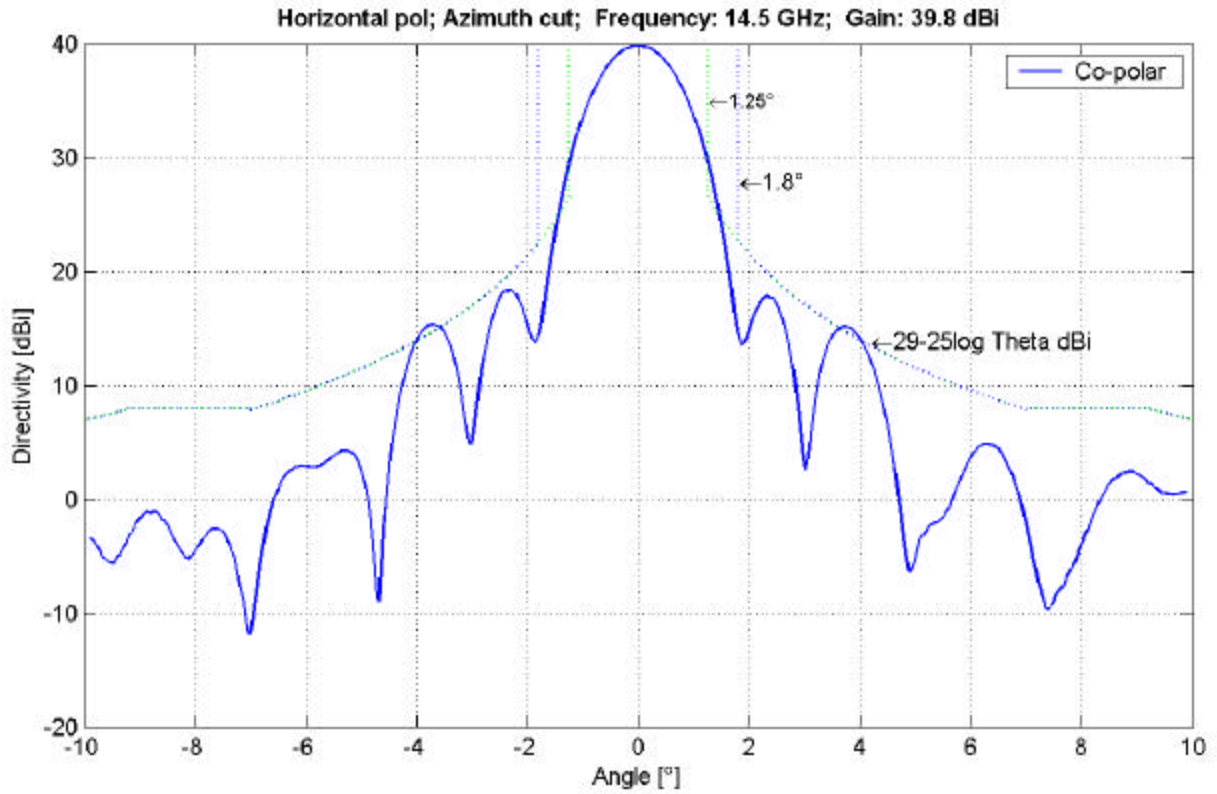
The antenna was tested on a calibrated antenna range, the electromagnetic wave was transmitted from a reference antenna towards the test device.

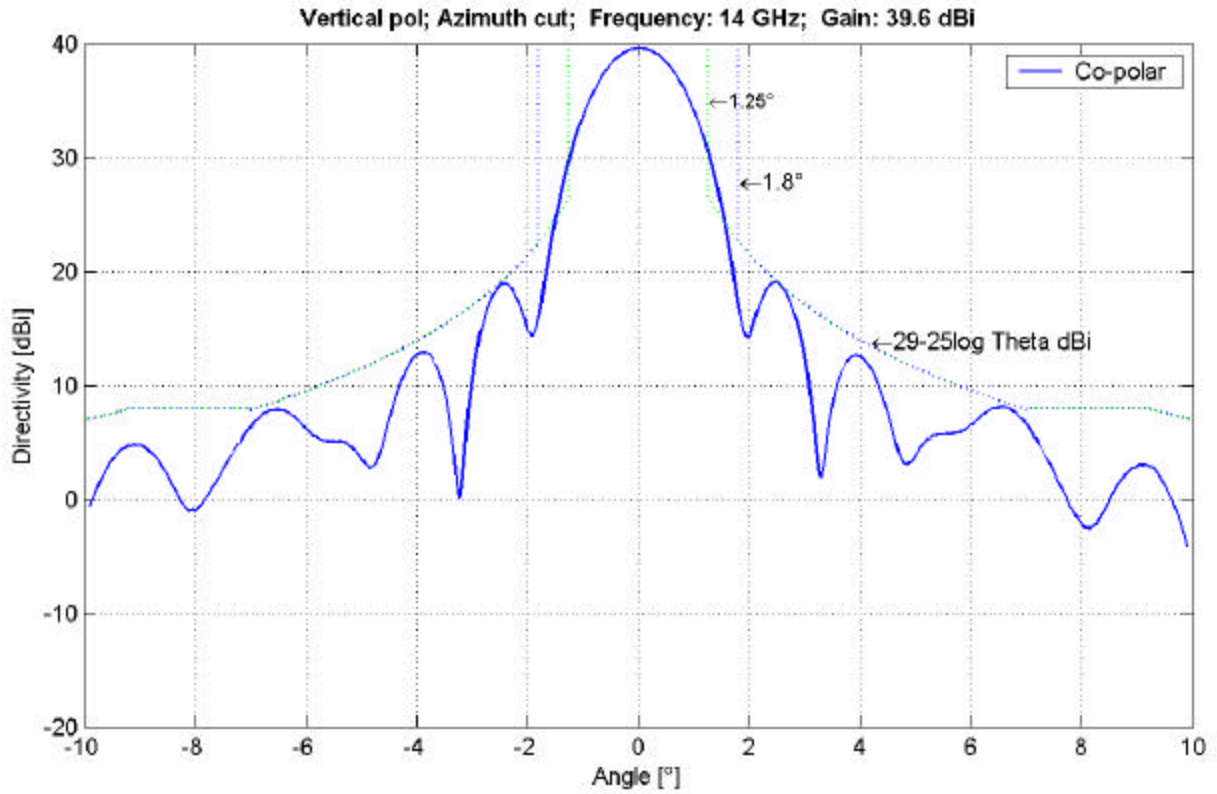
2 Test results

Plote Name	Description
2.1	Horizontal Polarisation, Azimuth cut, Co-polar, Sweep $\pm 10^\circ$, 14.00GHz
2.2	Horizontal Polarisation, Azimuth cut, Co-polar, Sweep $\pm 10^\circ$, 14.25GHz
2.3	Horizontal Polarisation, Azimuth cut, Co-polar, Sweep $\pm 10^\circ$, 14.50GHz
2.4	Vertical Polarisation, Azimuth cut, Co-polar, Sweep $\pm 10^\circ$, 14.00GHz
2.5	Vertical Polarisation, Azimuth cut, Co-polar, Sweep $\pm 10^\circ$, 14.25GHz
2.6	Vertical Polarisation, Azimuth cut, Co-polar, Sweep $\pm 10^\circ$, 14.50GHz
2.7	Horizontal Polarisation, Azimuth cut, Co-polar, Sweep $\pm 180^\circ$, 14.25GHz
2.8	Vertical Polarisation, Azimuth cut, Co-polar, Sweep $\pm 180^\circ$, 14.25GHz
2.9	Horizontal Polarisation, Elevation cut, Co-polar, Sweep $\pm 45^\circ$, 14.25GHz
2.10	Vertical Polarisation, Elevation cut, Co-polar, Sweep $\pm 45^\circ$, 14.25GHz
2.11	Horizontal Polarisation, Azimuth cut, Cross-polar, Sweep $\pm 10^\circ$, 14.00GHz
2.12	Horizontal Polarisation, Azimuth cut, Cross-polar, Sweep $\pm 10^\circ$, 14.25GHz
2.13	Horizontal Polarisation, Azimuth cut, Cross-polar, Sweep $\pm 10^\circ$, 14.50GHz
2.14	Vertical Polarisation, Azimuth cut, Cross-polar, Sweep $\pm 10^\circ$, 14.00GHz
2.15	Vertical Polarisation, Azimuth cut, Cross-polar, Sweep $\pm 10^\circ$, 14.25GHz
2.16	Vertical Polarisation, Azimuth cut, Cross-polar, Sweep $\pm 10^\circ$, 14.50GHz

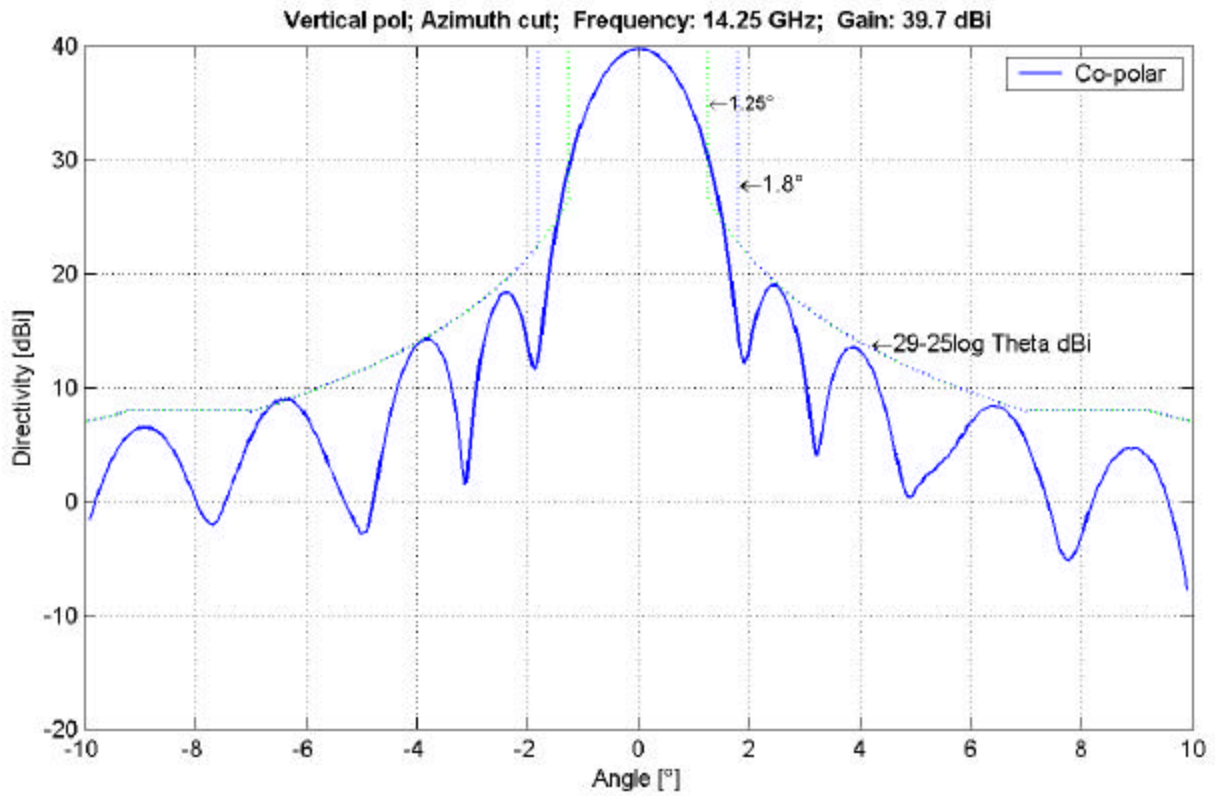
2.1

 Measurement date: 01/07 2003
 Filename (co-pol): HAI7301.DAT

2.2

 Measurement date: 01/07 2003
 Filename (co-pol): HAI7301.DAT

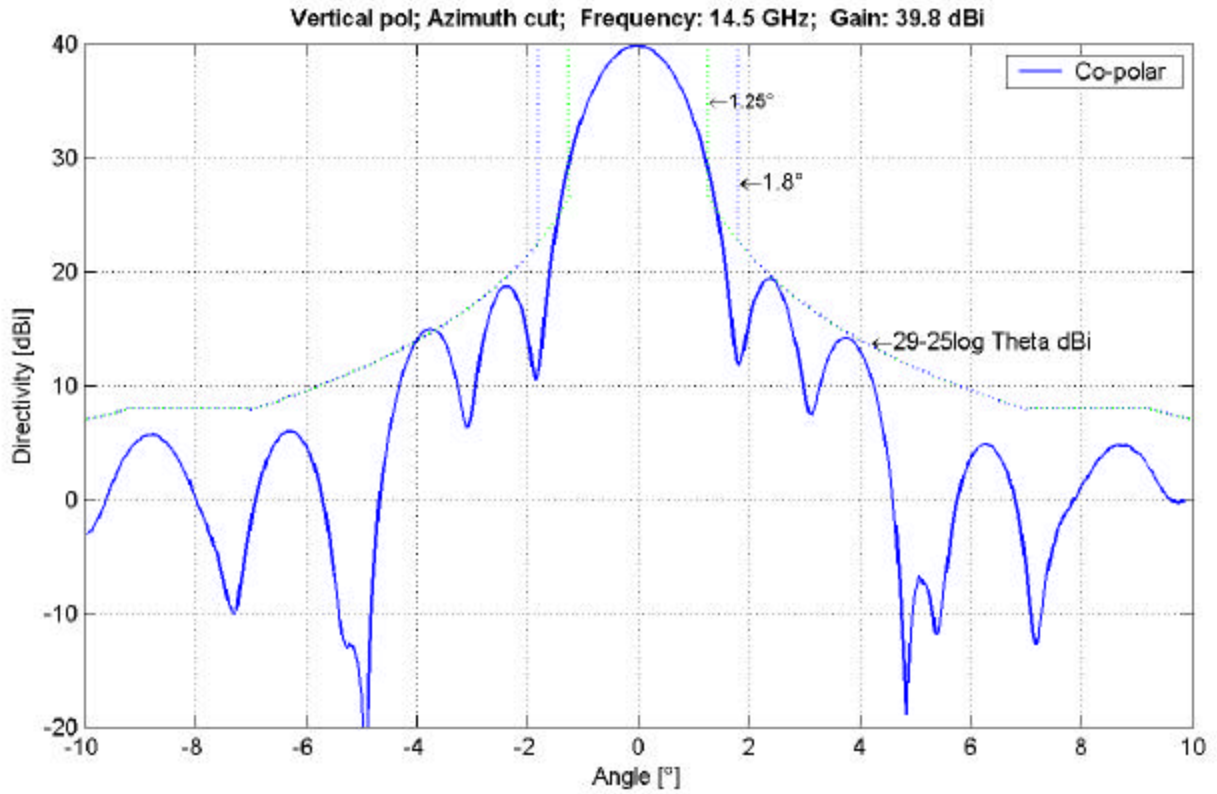
2.3

 Measurement date: 01/07 2003
 Filename (co-pol): HAI7301.DAT

2.4


Measurement date: 01/07 2003
 Filename (co-pol): VAI7301.DAT

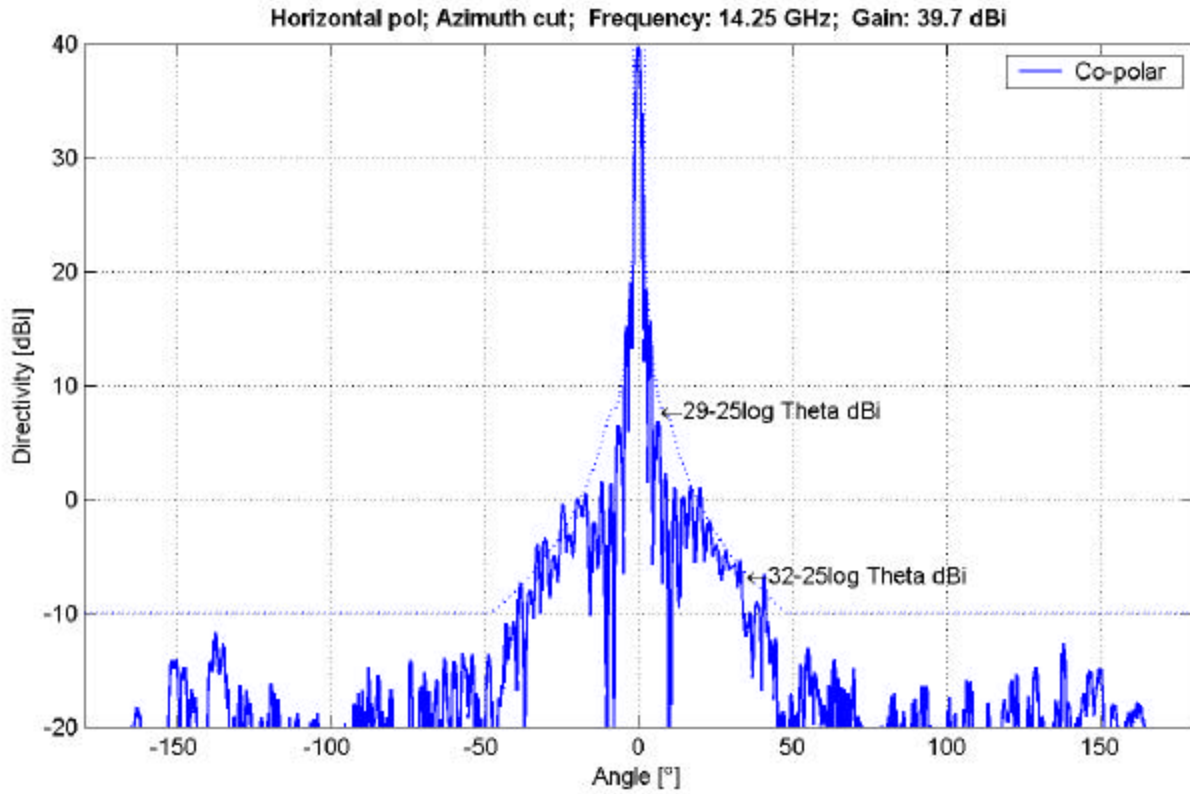
2.5

 Measurement date: 01/07 2003
 Filename (co-pol): VAI7301.DAT

2.6



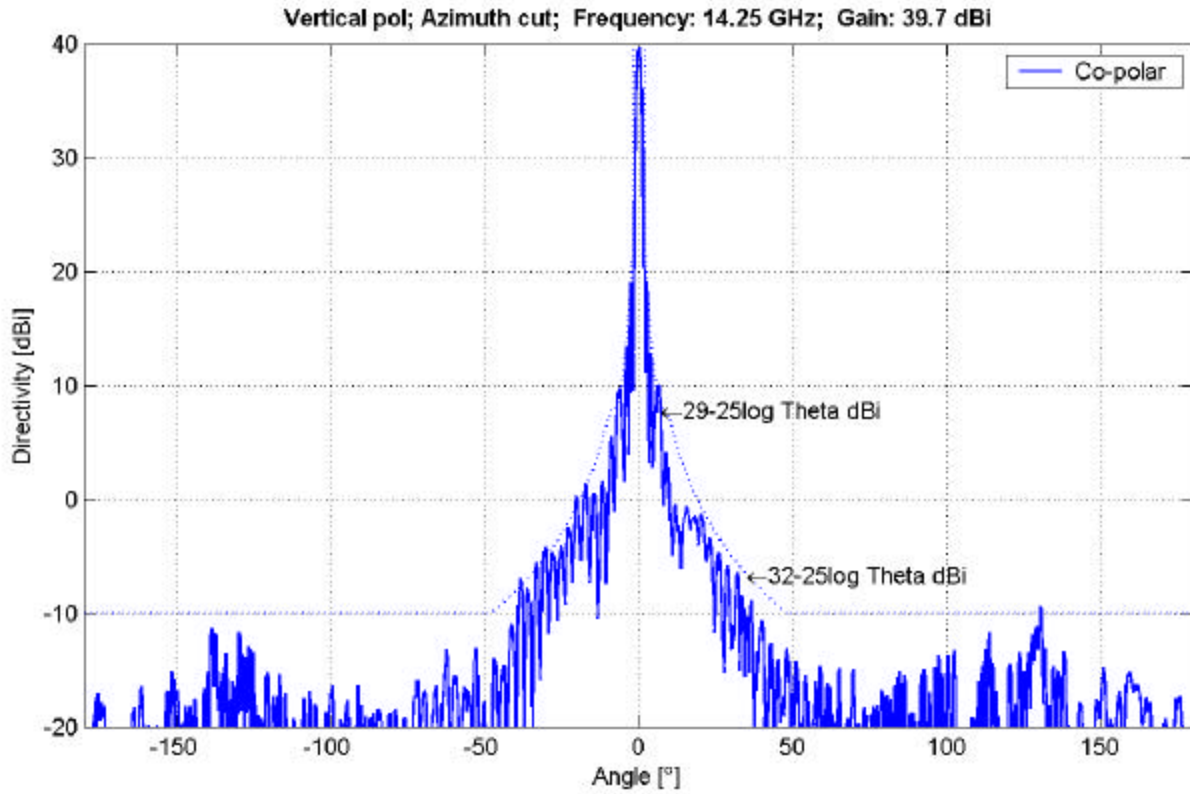
Measurement date: 01/07 2003
Filename (co-pol): VAI7301.DAT

2.7



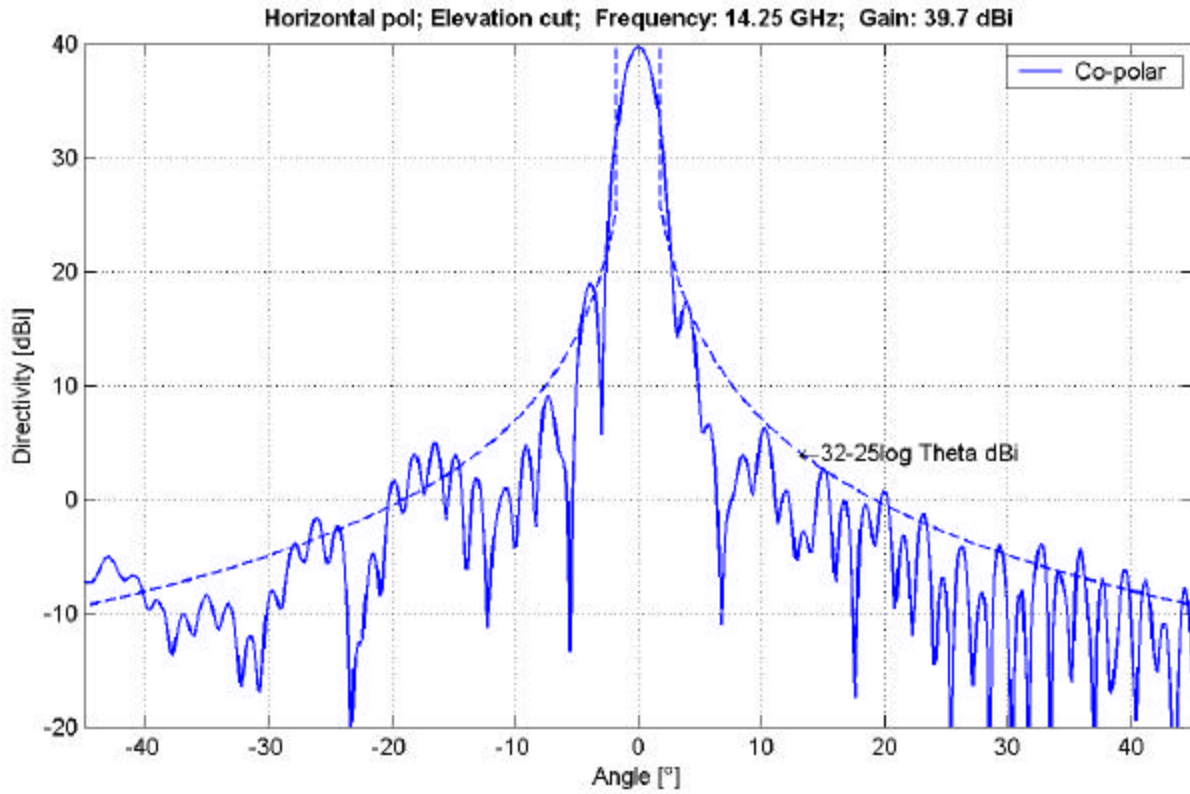
Measurement date: 01/07 2003
Filename (co-pol): HAI7302

2.8



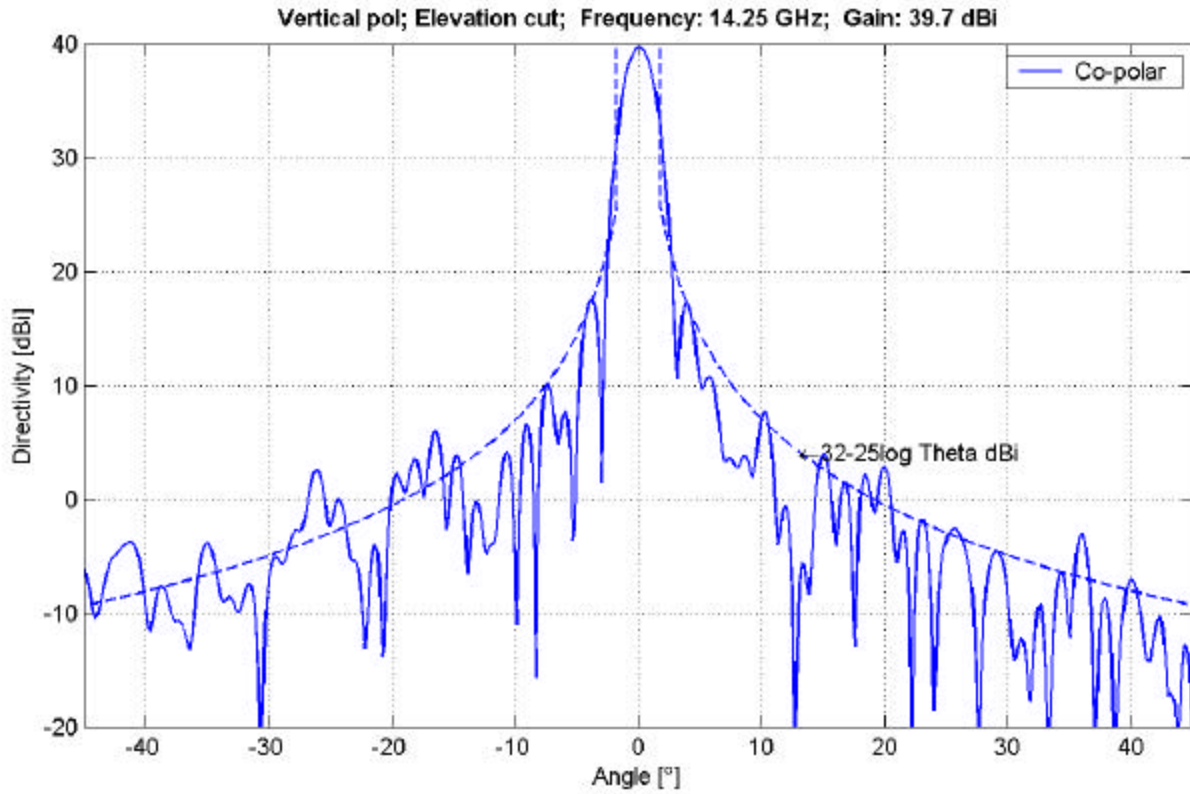
Measurement date: 01/07 2003
Filename (co-pol): HAI7302

2.9

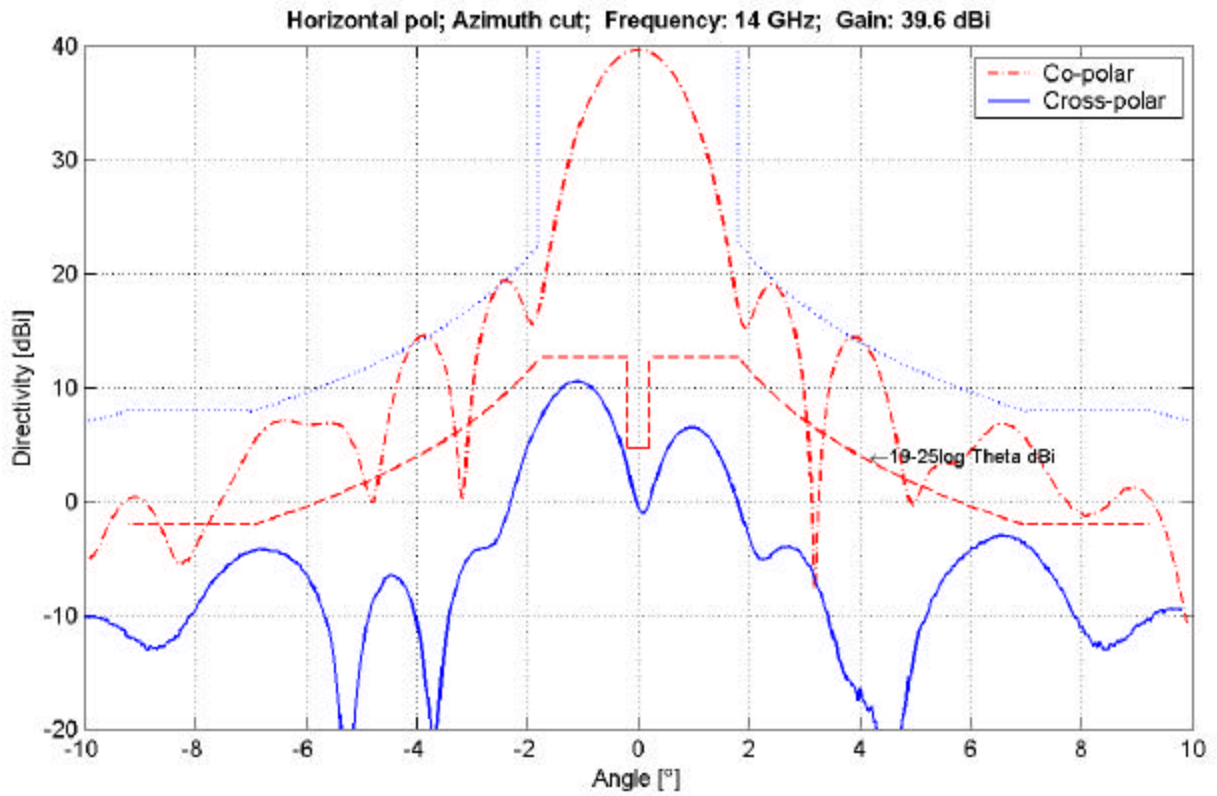


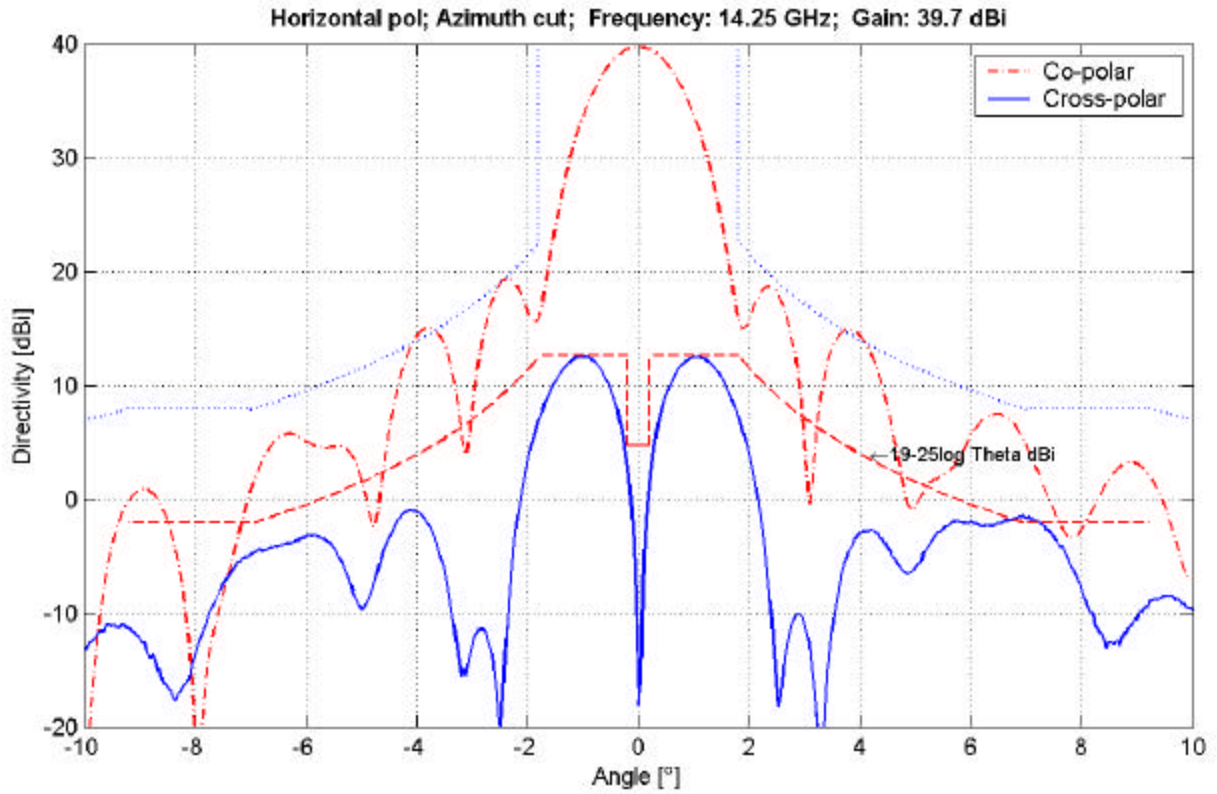
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Filename (co-pol): HEI7302

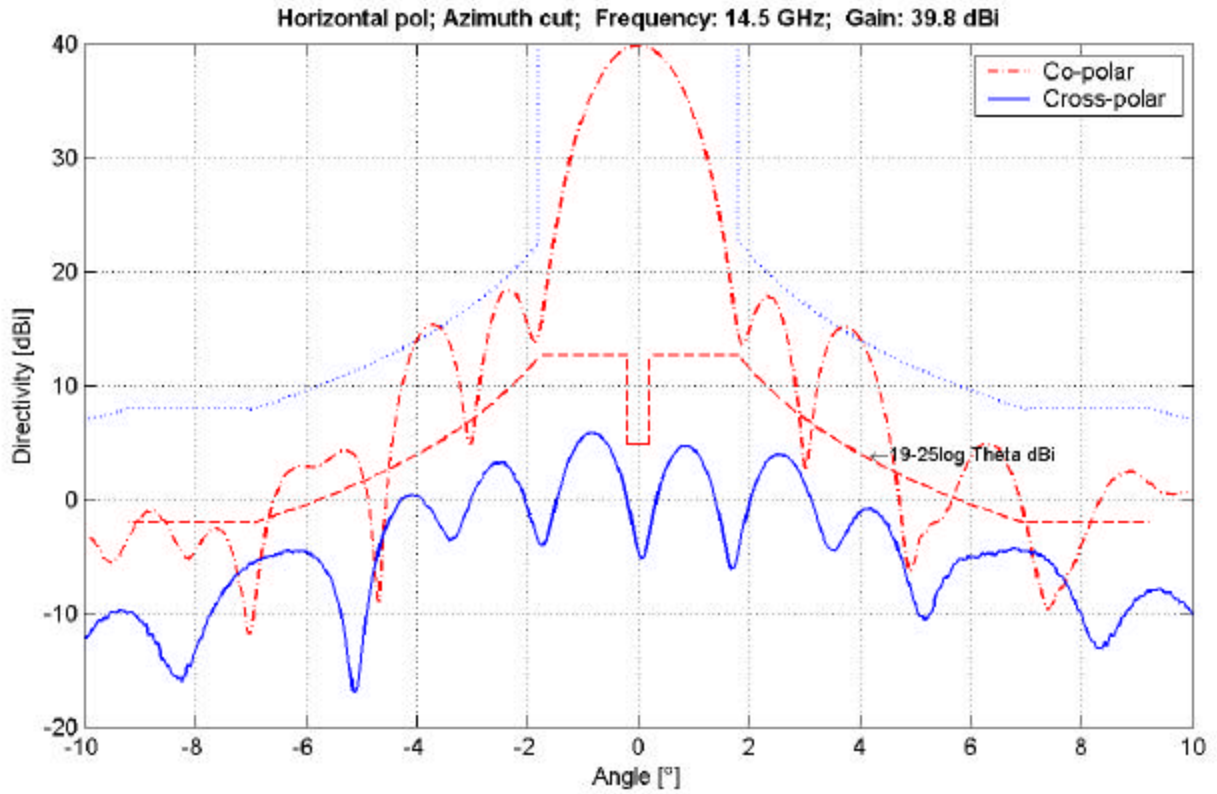
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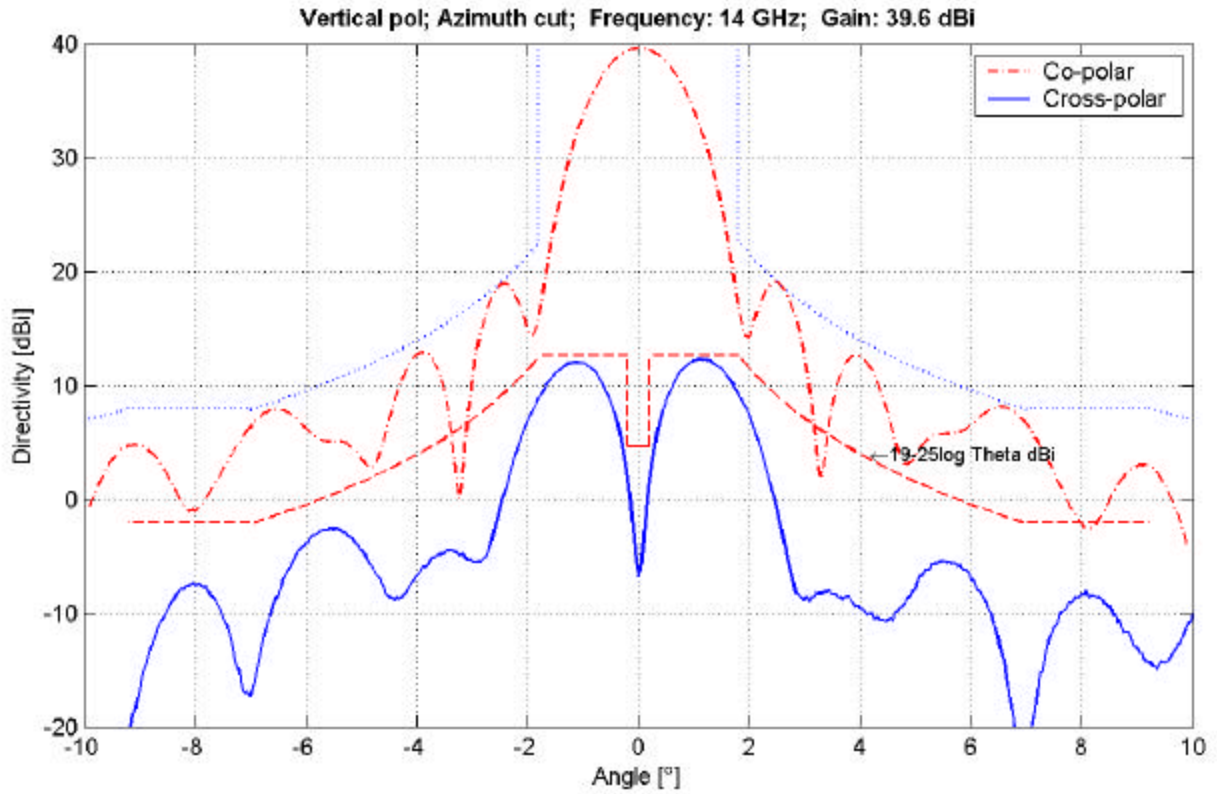


Measurement date: 01/07 2003
Filename (co-pol): VEI7302

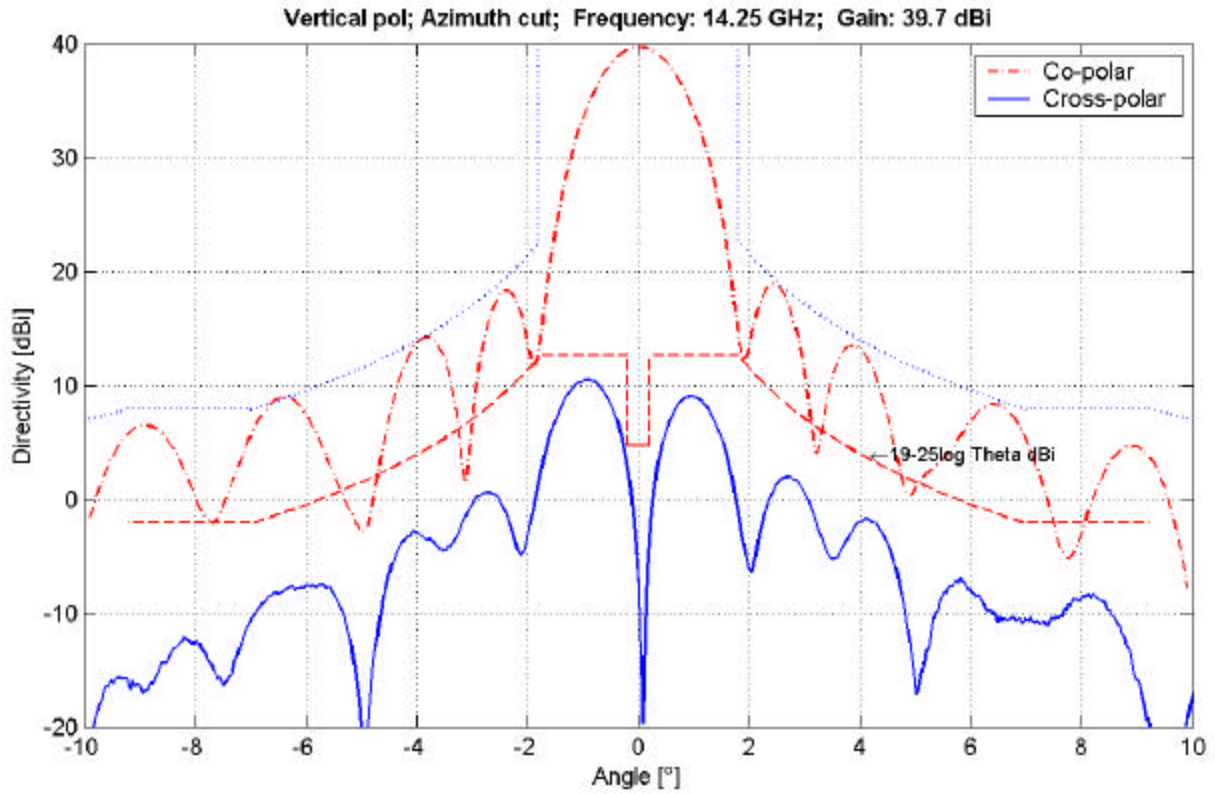
2.11

 Measurement date: 01/07 2003
 Filename (co-pol): HAI7301.DAT

2.12

 Measurement date: 01/07 2003
 Filename (co-pol): HAI7301.DAT

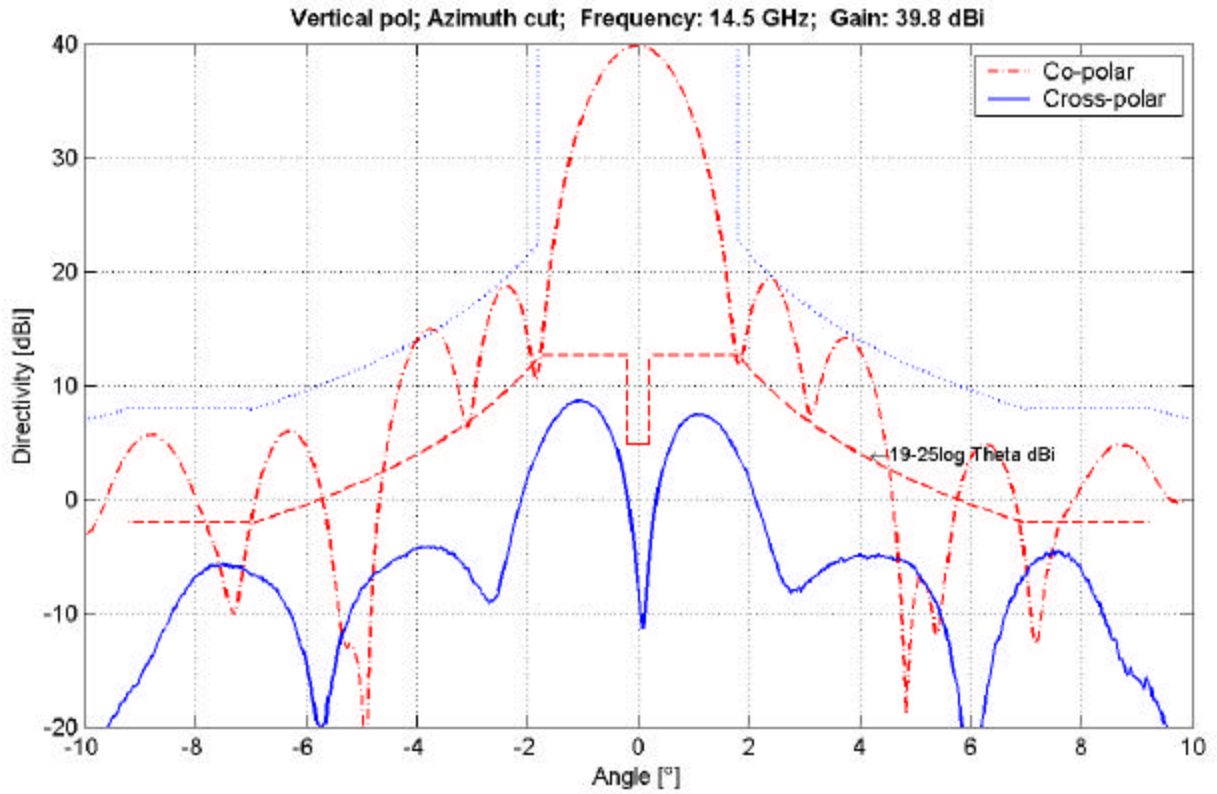
2.13

 Measurement date: 01/07 2003
 Filename (co-pol): HAI7301.DAT

2.14

 Measurement date: 01/07 2003
 Filename (co-pol): VAI7301.DAT

2.15



Measurement date: 01/07 2003
Filename (co-pol): VAI7301.DAT

2.16


Measurement date: 01/07 2003
 Filename (co-pol): VAI7301.DAT