

FCC Part 15 Certification
Test Report

**5.8 GHz Digital Transmission System
Radio Module**

FCC ID: HSW-5811M

FCC Rule Part: 15.247

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.

Model: WIT5811

Data Plots B

**Radiated Spurious
Emissions**

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

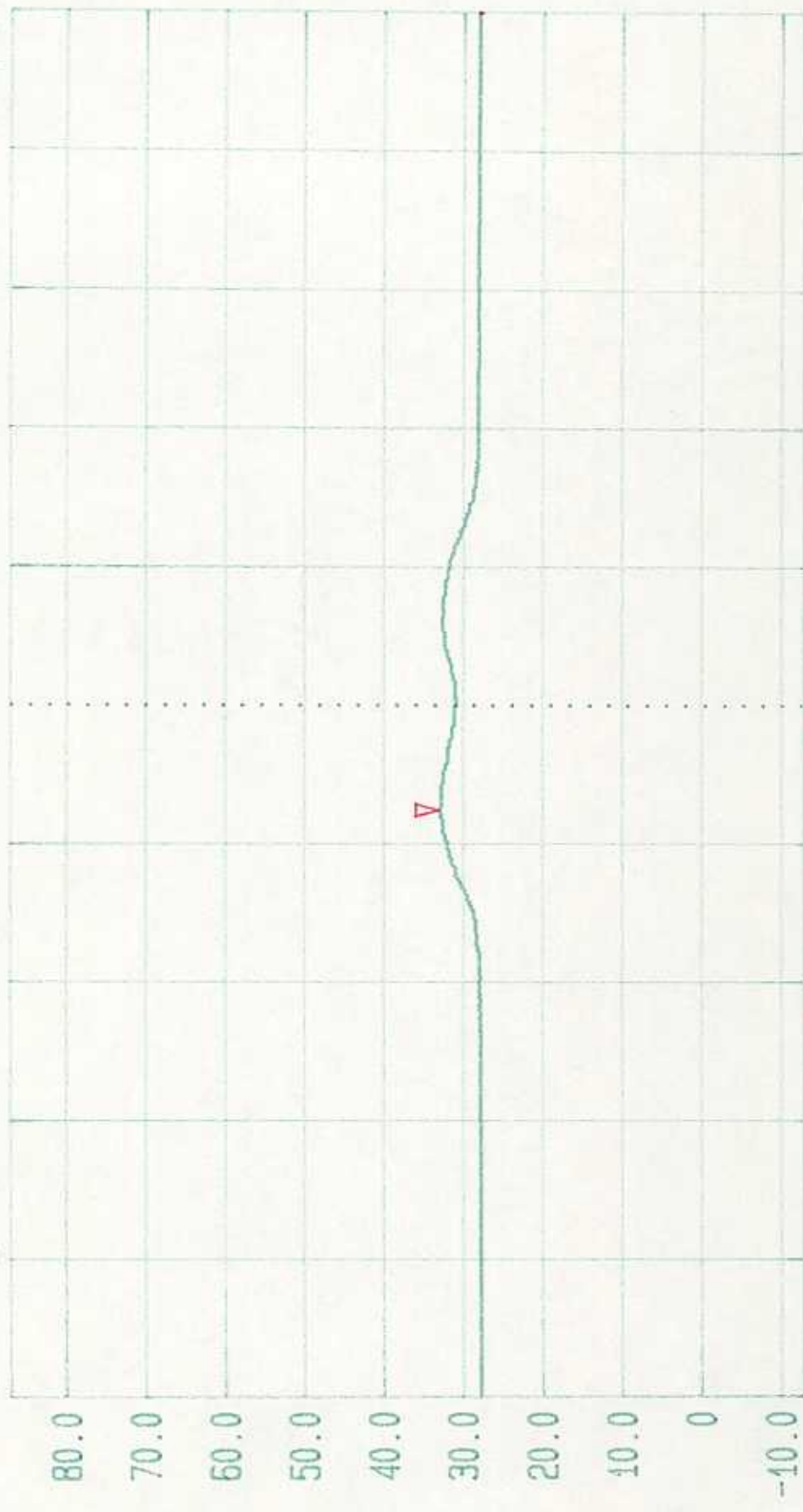
Test: Radiated Spurious Emissions
Channel: Low
Antenna: 0dBi Omni



Date 13. Aug. '03 Time 01:58:07

Ref. Lvl 87.00 dBuV
Marker 32.84 dBuV
11.45906 GHz

Res. Bw 1 MHz [imp]
TG. Lvl off
CF. Stp 5.730 GHz
Vid. Bw 10 Hz
AF. Att 10 dB
Unit [dBuV]



Start 11.45481 GHz
Span 10 MHz
Center 11.45981 GHz
Sweep 15.0 s
Stop 11.46481 GHz



Date 06.Aug.'03 Time 23:46:01

Ref.Lvl 87.00 dBuV

Marker

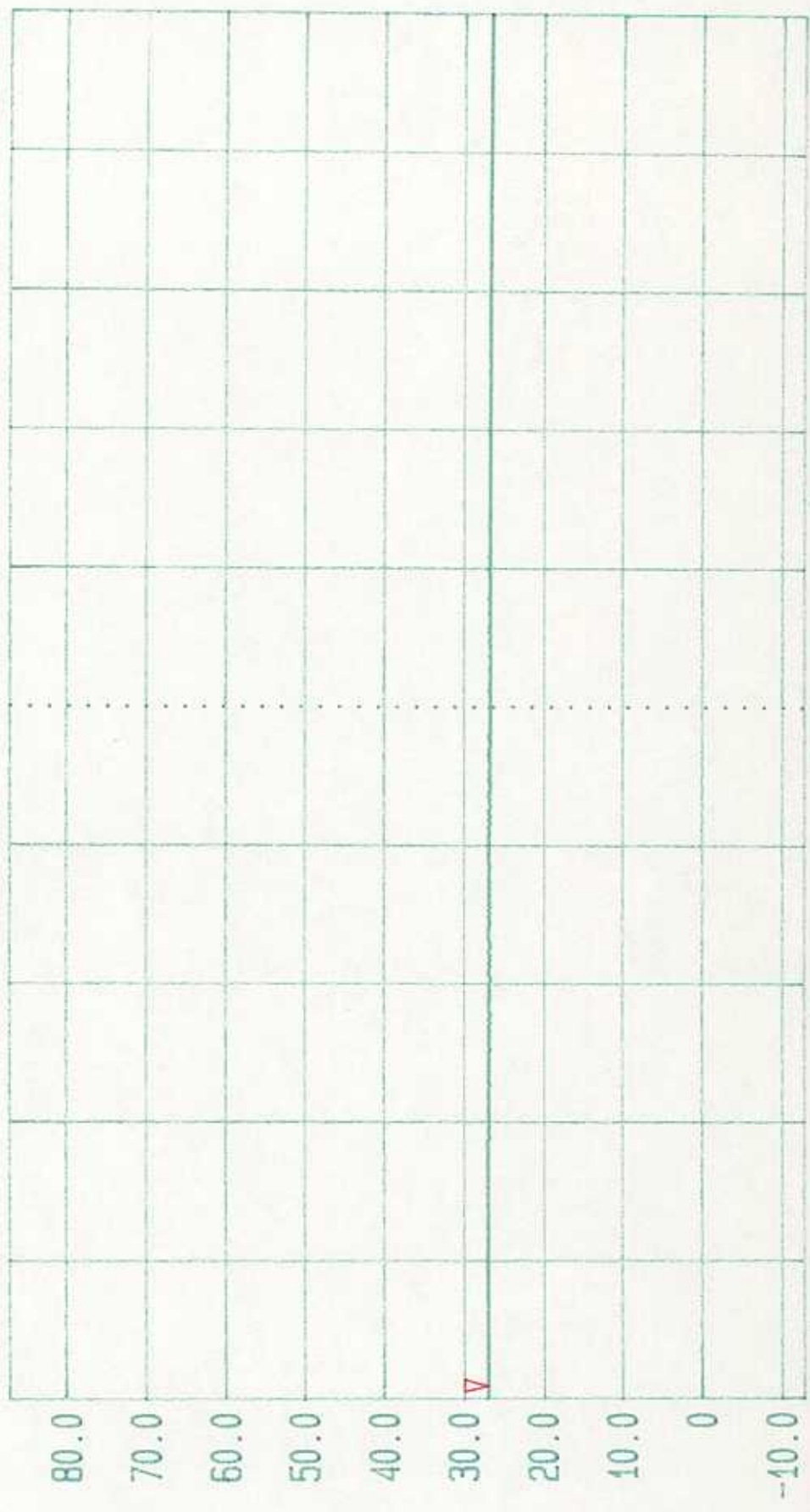
26.77 dBuV
17.18483 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
Off
5.729 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dBuV]



Start
17.18473 GHz

Span
10 MHz

Center
17.18973 GHz

Sweep
15.0 s

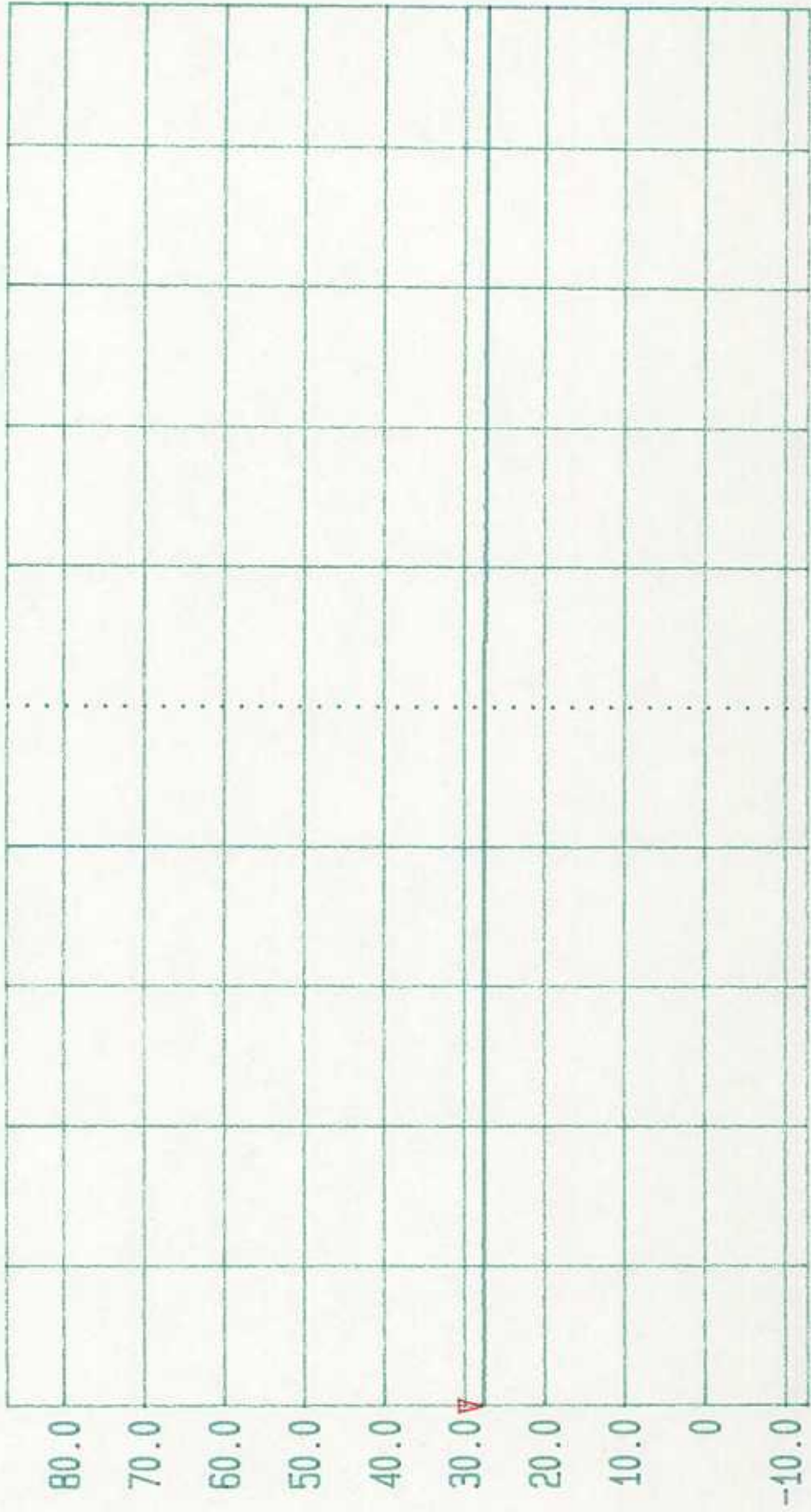
Stop
17.19473 GHz



Date 07.Aug.'03 Time 22:38:21

Ref.Lvl 87.00 dB μ V
Marker 27.84 dB μ V
22.91491 GHz

Res.Bw 1 MHz [imp]
TG.Lvl off
CF.Stp 5.730 GHz
Vid.Bw 10 Hz
AF.Att 10 dB
Unit [dB μ V]



Start 22.91491 GHz
Span 10 MHz
Center 22.91991 GHz
Sweep 15.0 s
Stop 22.92491 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

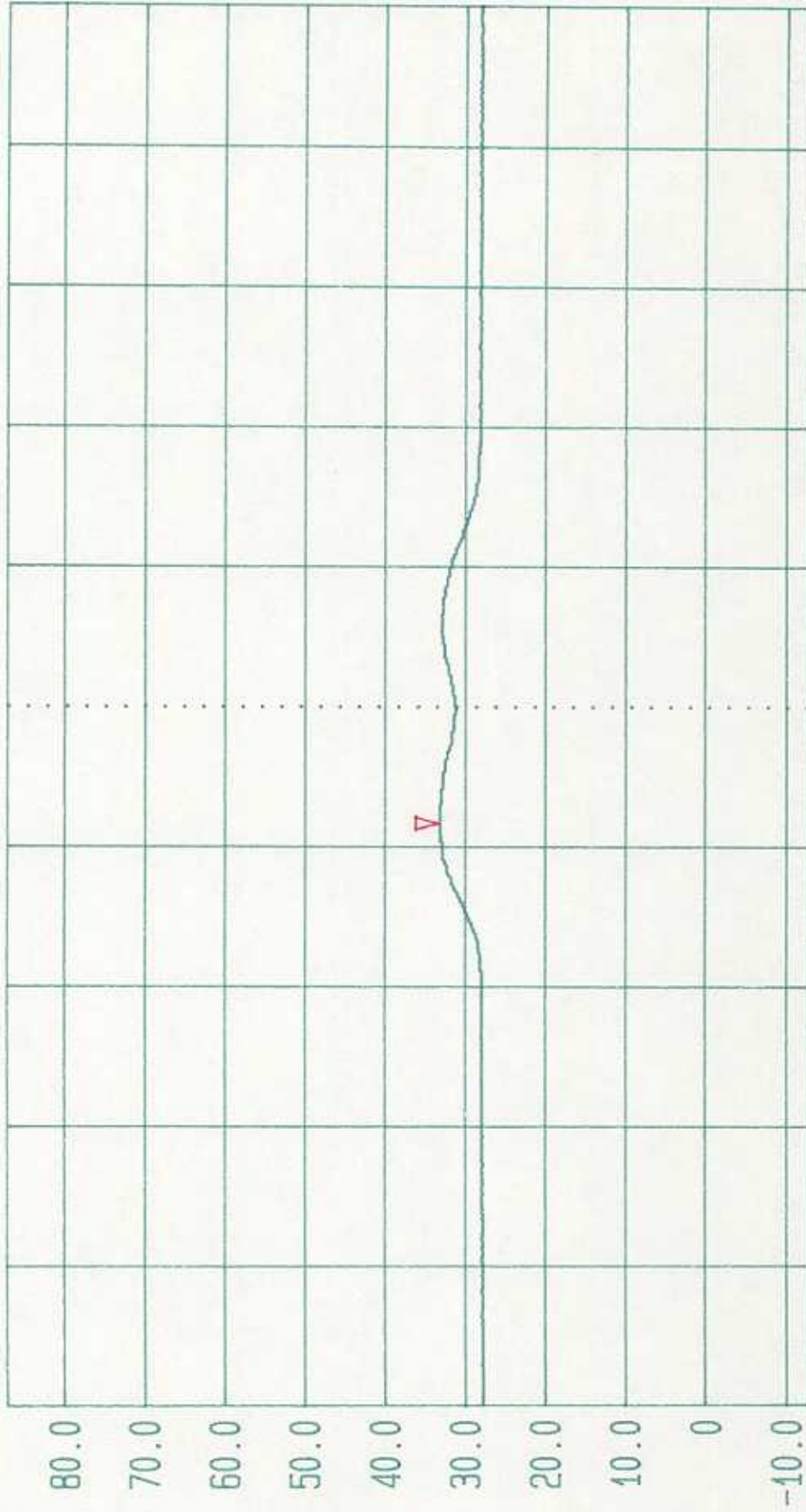
Test: Radiated Spurious Emissions
Channel: Low
Antenna: 14dBi Corner



Date 13.Aug.'03 Time 03:04:43

Ref.Lvl 87.00 dB μ V
Marker 33.20 dB μ V
11.45899 GHz

Res.Bw 1 MHz [imp] Off
TG.Lvl
CF.Stp
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start 11.45482 GHz Span 10 MHz Center 11.45982 GHz Sweep 15.0 s Stop 11.46482 GHz

11.45982 GHz
33.20 dB μ V
13.AUG.03
03:04:43



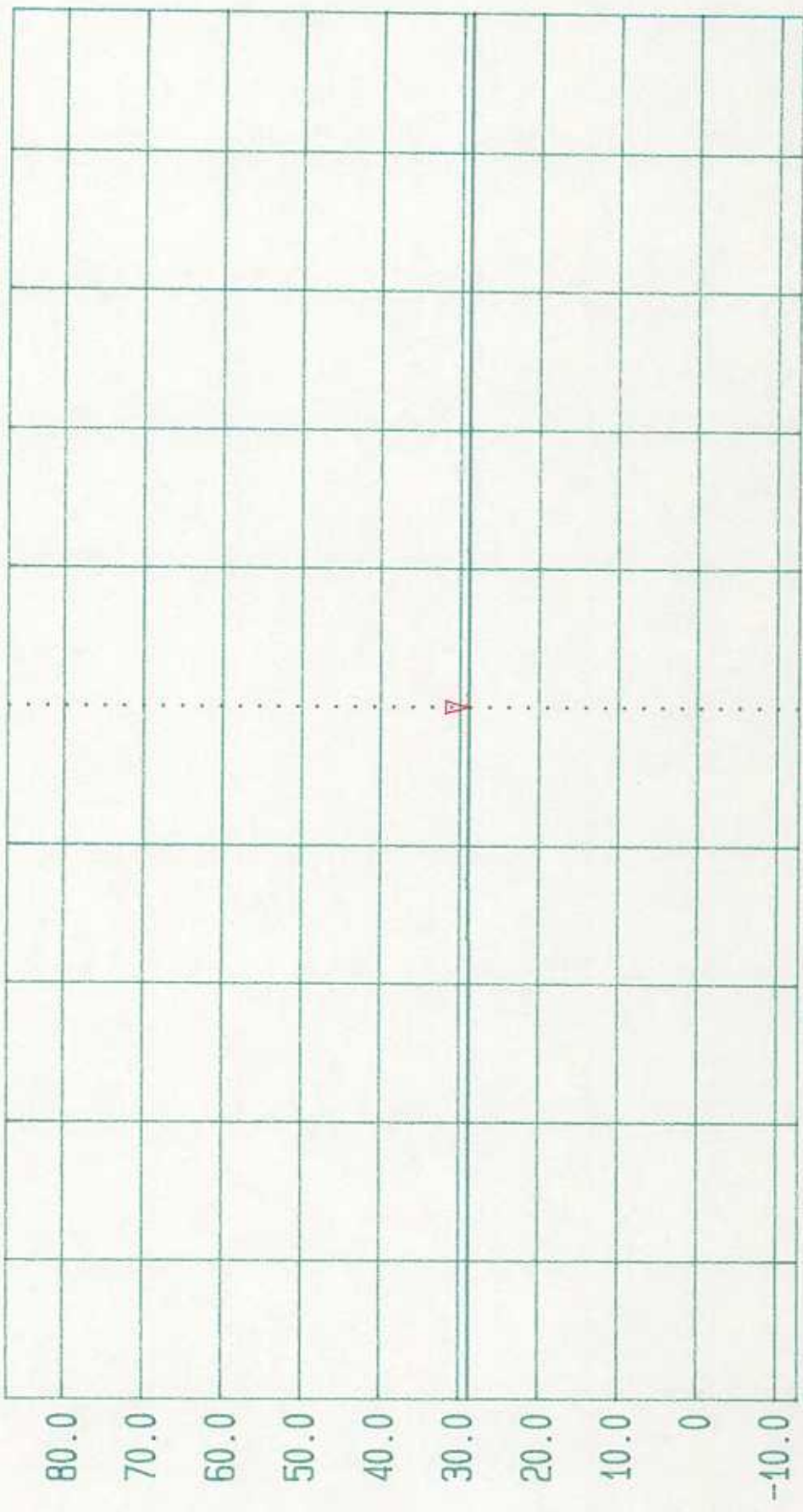
Date 05.Aug.'03 Time 21:47:42

Ref.Lvl 87.00 dB μ V

Marker 28.90 dB μ V

17.18976 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl Off
CF.Stp 5.729 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]

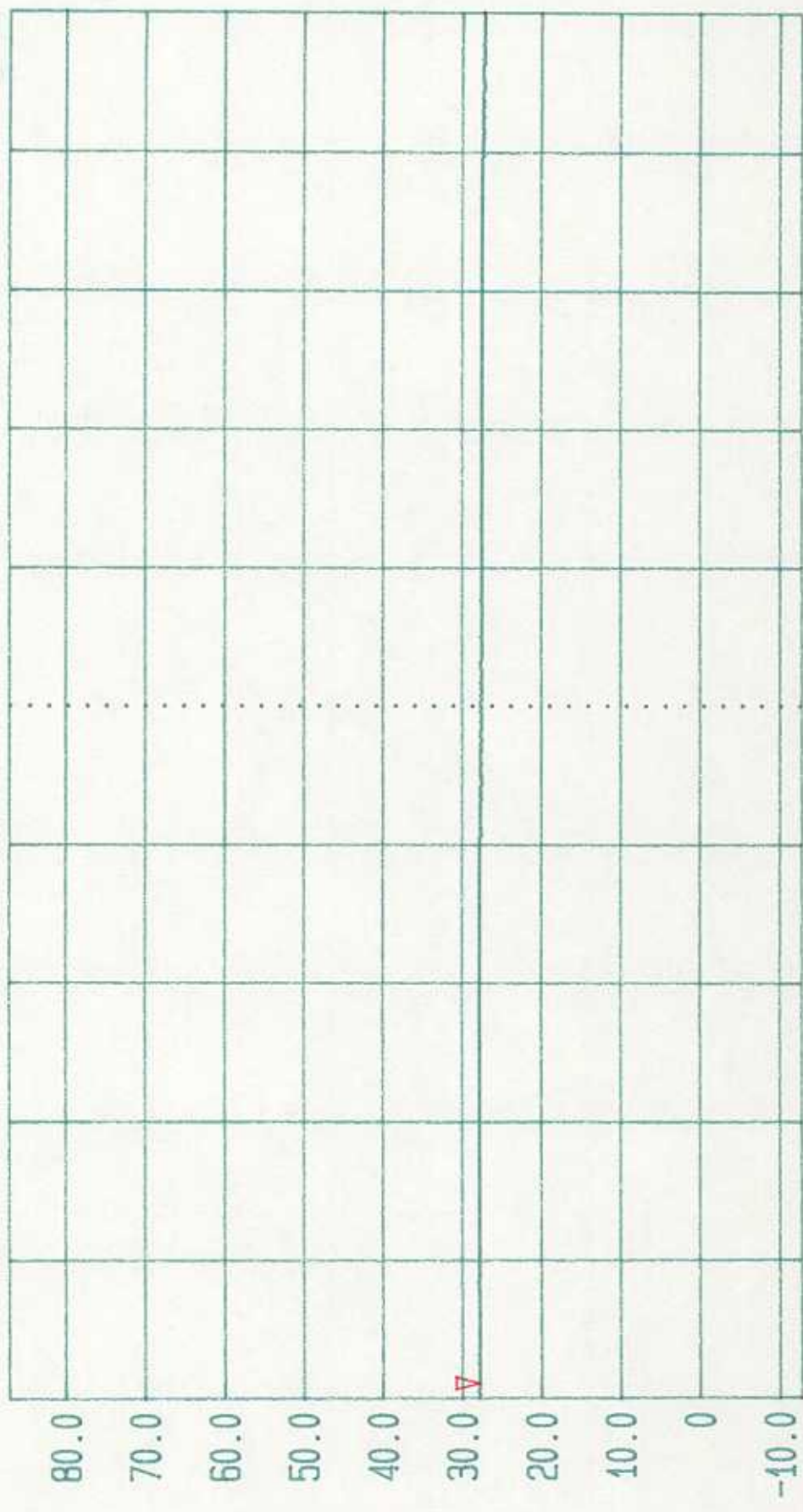


Start 17.18476 GHz Span 10 MHz Center 17.18976 GHz Sweep 15.0 s Stop 17.19476 GHz



Date 07. Aug. '03 Time 20:54:57
Ref. Lvl 87.00 dB μ V
Marker 27.76 dB μ V
22.91440 GHz

Res. Bw 1 MHz [imp] 10 Hz
TG. Lvl Off
CF. Stp 5.729 GHz
Vid. Bw RF. Att 10 dB
Unit [dB μ V]



Start 22.91428 GHz
Span 10 MHz
Center 22.91928 GHz
Sweep 15.0 s
Stop 22.92428 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: Low
Antenna: 14dBi Patch



Date 13.Aug.'03 Time 02:06:03

Ref.Lvl 87.00 dBuV

Marker

34.39 dBuV

11.45901 GHz

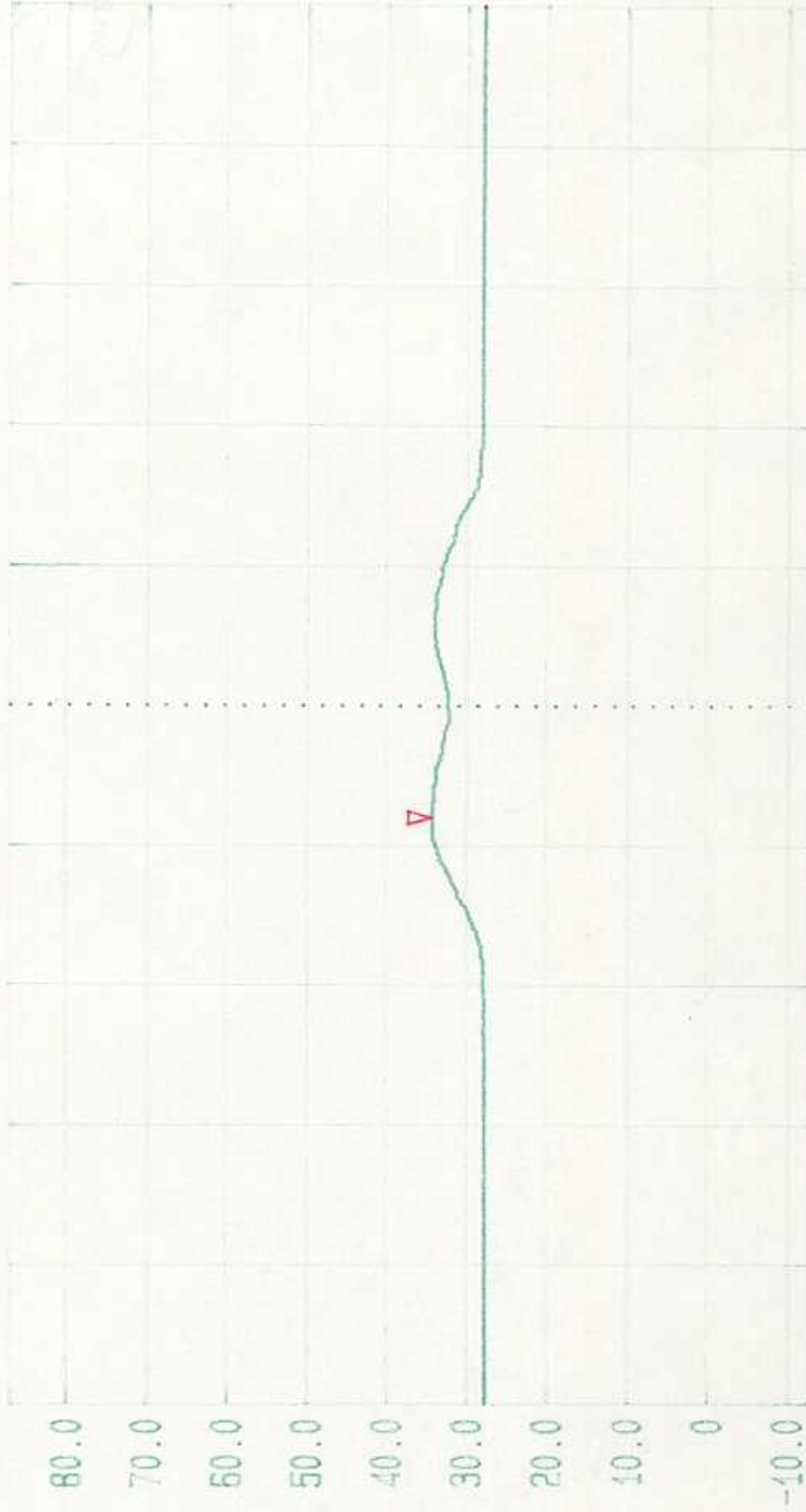
Res.Bw 1 MHz [imp]

1 MHz [imp]

Vid.Bw 10 Hz

HF.Att 10 dB

Unit [dBuV]



Start 11.45481 GHz

Span 10 MHz

Center 11.45981 GHz

Sweep 15.0 s

Stop 11.46481 GHz



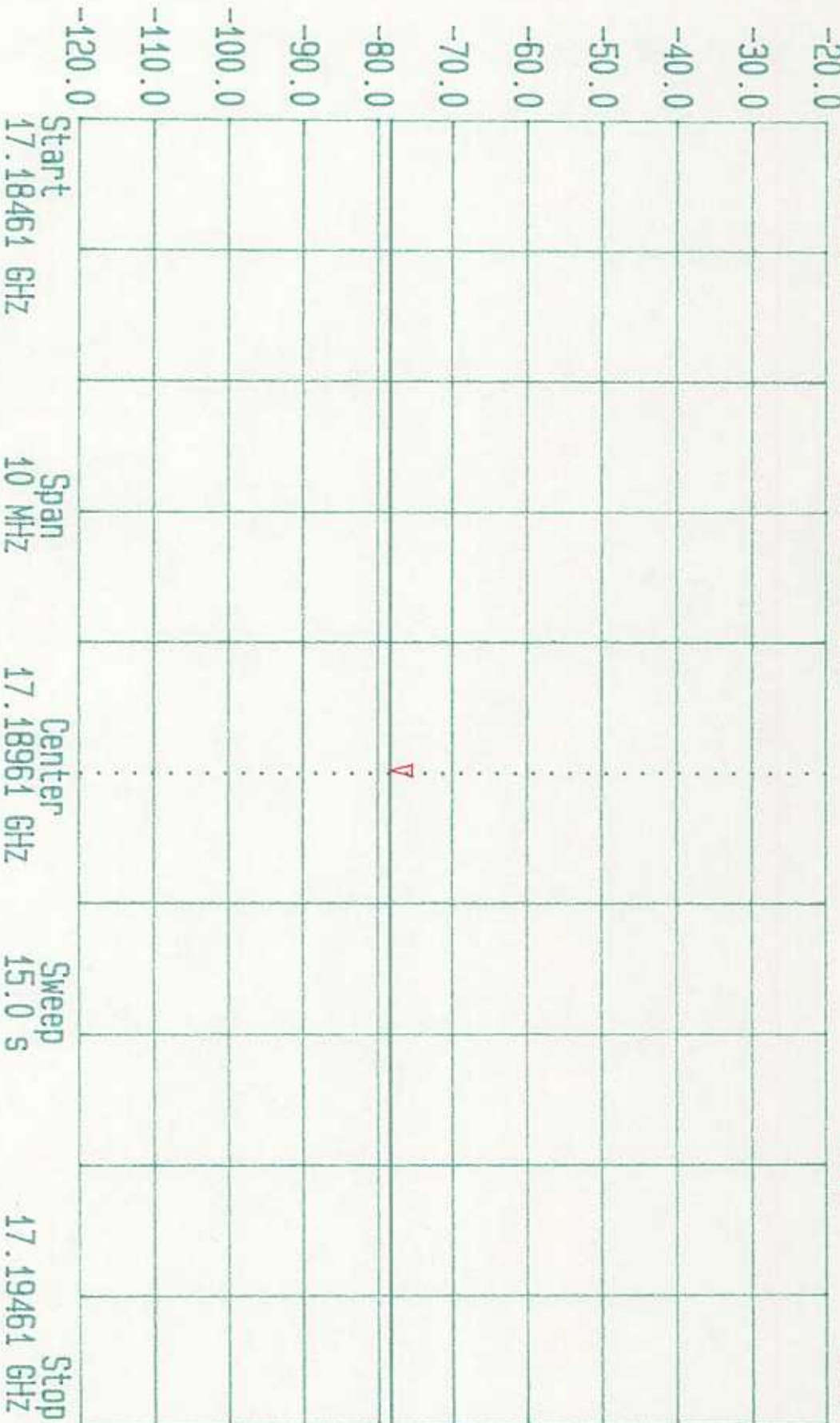
Date 06.Aug.'03 Time 21:11:52
 Ref.Lvl1 -20.00 dBm
 Marker 17.18960 GHz

Res.BW 1.0 MHz [3dB]
 TG.Lvl1
 CF.Stp

1.0 MHz [3dB]
 5.729 GHz
 off

Vid.Bw
 RF.Att
 Unit

10 Hz
 10 dB
 [dBm]

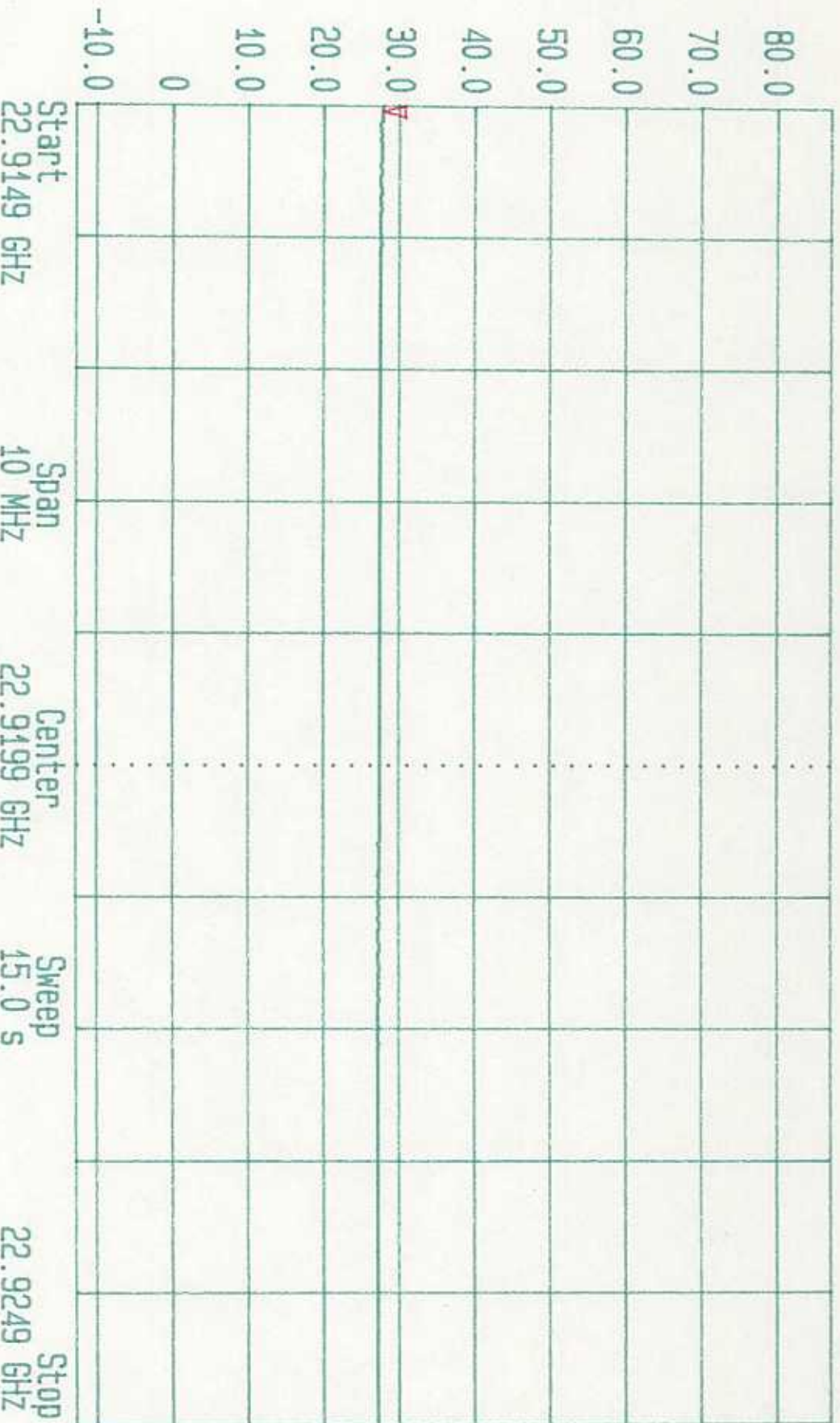




Date 07. Aug. '03 Time 21:27:24
 Ref. Lvl 87.00 dBµV Marker 22.91495 GHz
 27.58 dBµV

Res. Bw 1 MHz [imp]
 TG. Lvl off
 CF. Stp 5.730 GHz

Vid. Bw 10 Hz
 RF. Att 10 dB [dBµV]
 Unit



Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: Low
Antenna: Large Omni



Date 13.Aug.'03 Time 03:57:18

Ref.Lvl 87.00 dB μ V

Marker

32.84 dB μ V

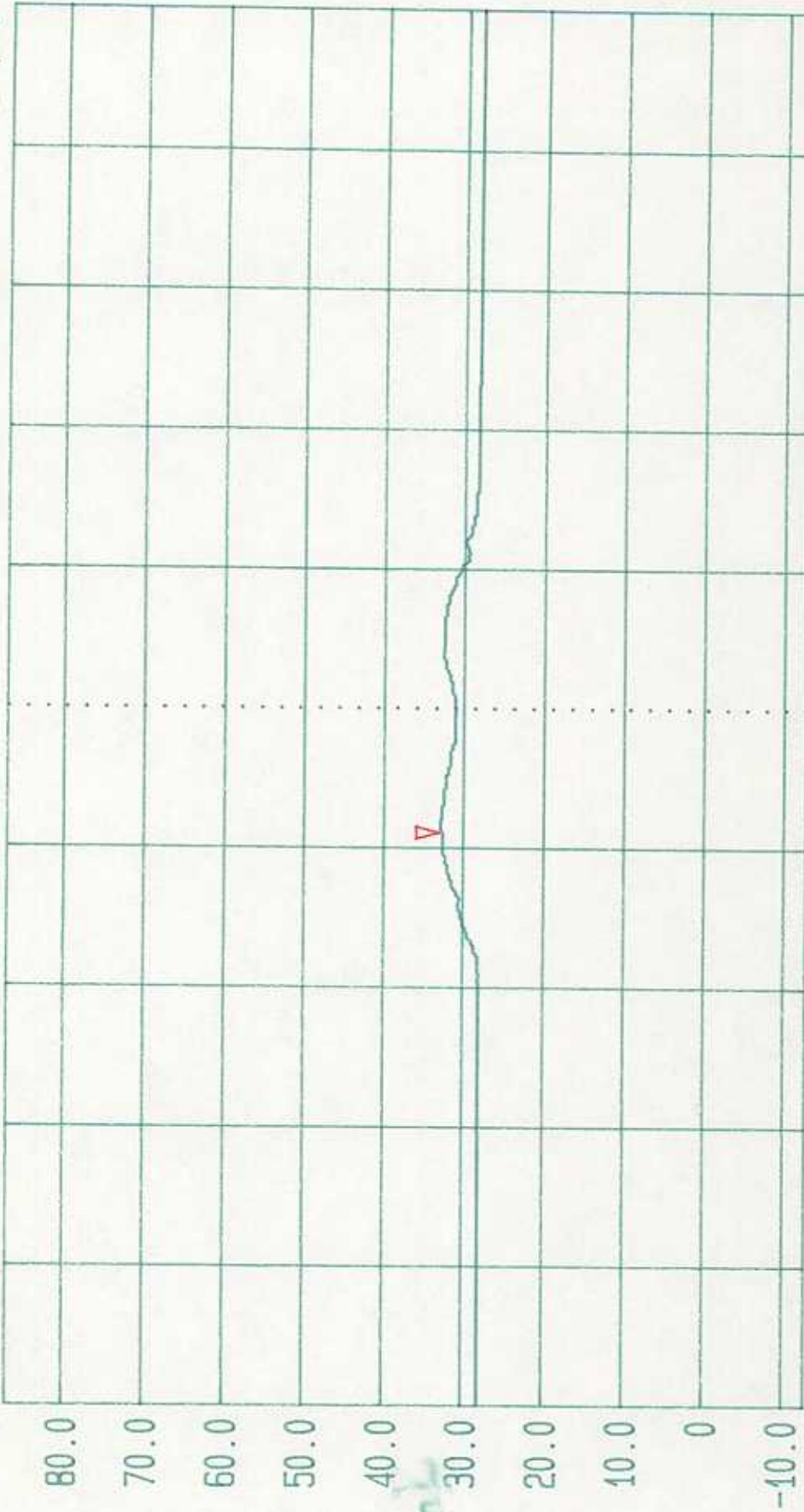
11.45907 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.729 GHz

Vid.Bw
AF.Att
Unit

10 Hz
10 dB
[dB μ V]



Start
11.45495 GHz

Span
10 MHz

Center
11.45995 GHz

Sweep
15.0 s

Stop
11.46495 GHz

APP

APP

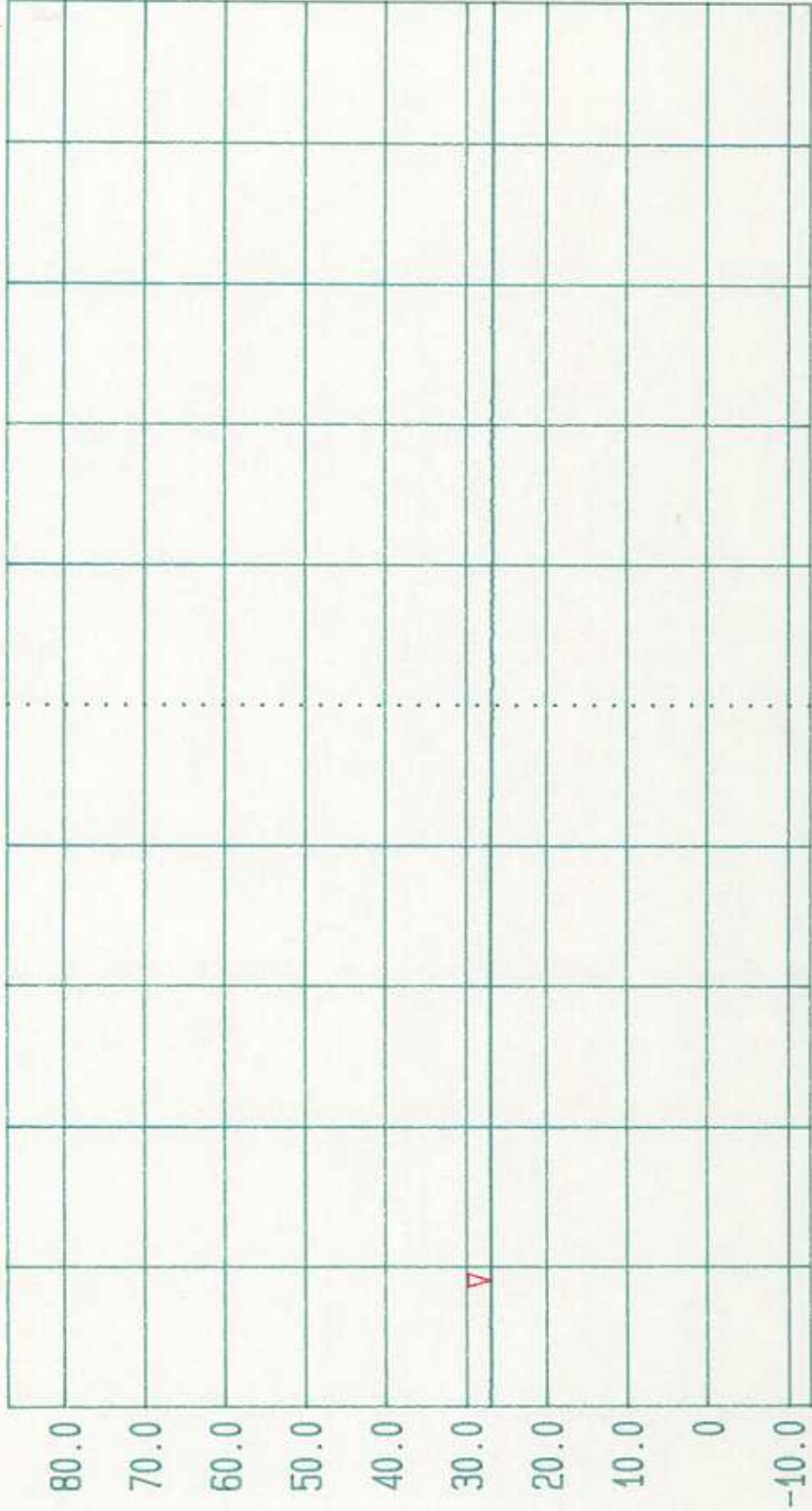
87.00 = 20



Date 07. Aug. '03 Time 03:33:03

Ref. Lvl 87.00 dBμV
Marker 26.97 dBμV
17.27659 GHz

Res. Bw 1 MHz [imp] Off
TG. Lvl 5.775 GHz
CF. Stp 10 dB [dBμV]



Start 17.27568 GHz
Span 10 MHz
Center 17.28068 GHz
Sweep 15.0 s
Stop 17.28568 GHz

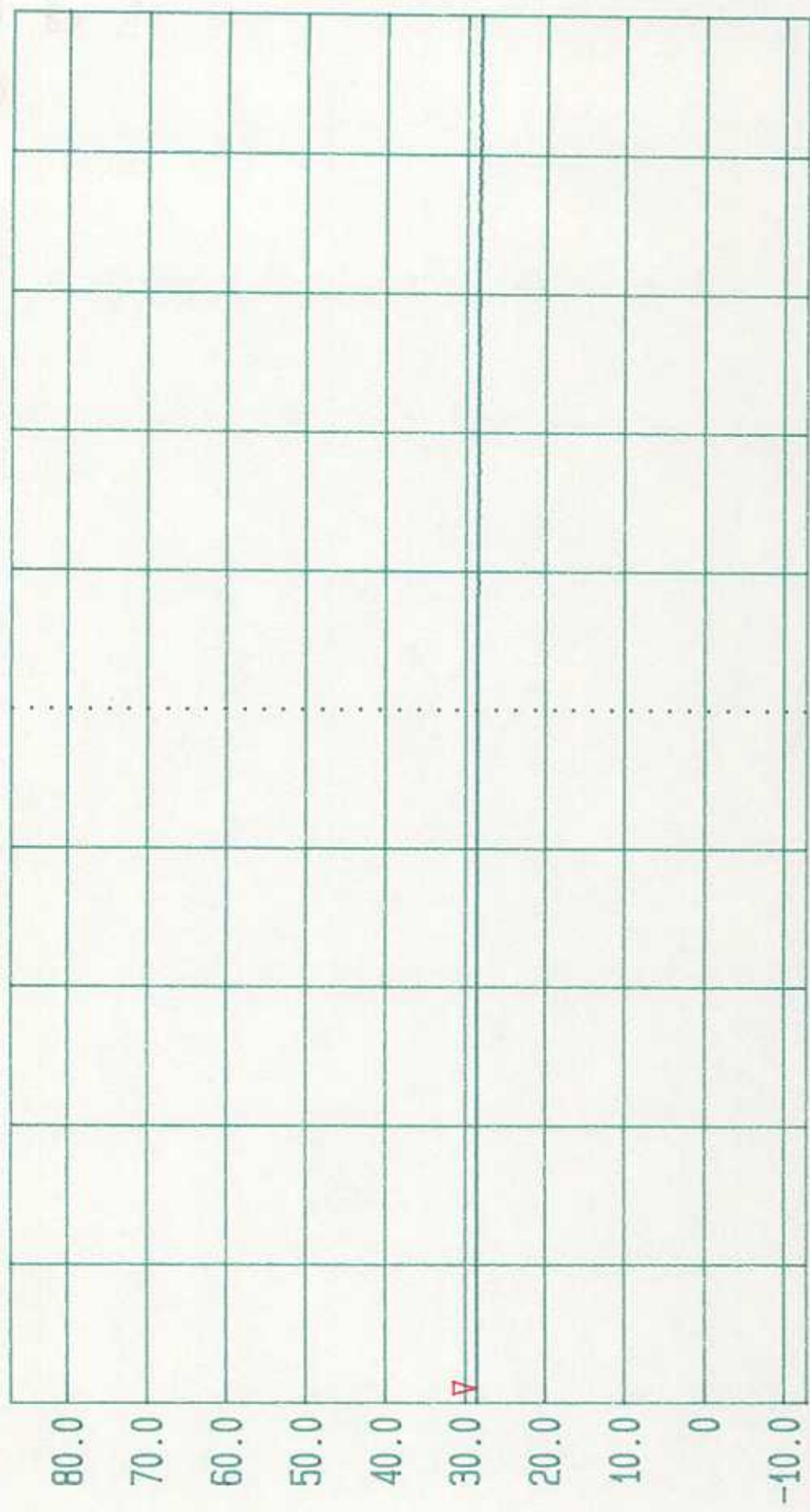
27020



Date 07. Aug. '03 Time 03:55:33

Ref. Lvl 87.00 dB μ V
Marker 28.47 dB μ V
23.05118 GHz

Res. Bw 1 MHz [impJ]
TG. Lvl Off
CF. Stp 5.775 GHz
Vid. Bw 10 Hz
RF. Att 10 dB
Unit [dB μ V]



Start 23.05106 GHz
Span 10 MHz
Center 23.05606 GHz
Sweep 15.0 s
Stop 23.06106 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: Center
Antenna: 0dBi Omni



Date 13.Aug.'03 Time 01:51:09

Ref.Lvl 87.00 dB μ V

Marker

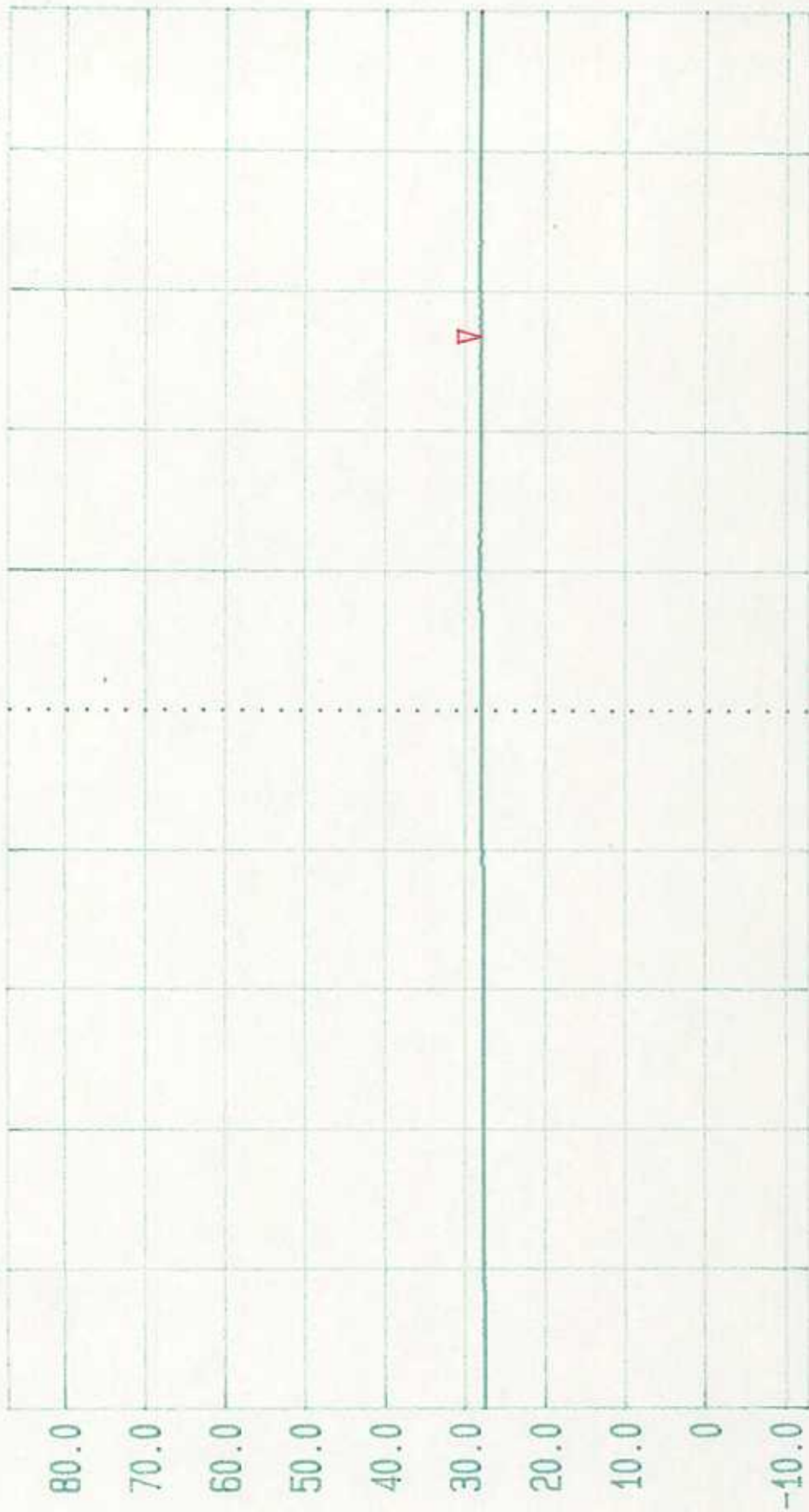
28.09 dB μ V
11.55307 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz limpl
off
5.775 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dB μ V]



Start
11.54538 GHz

Span
10 MHz

Center
11.55038 GHz

Sweep
15.0 s

Stop
11.55538 GHz



Date 07. Aug. '03 Time 01:40:46

Ref. Lvl 87.00 dBuV

Marker

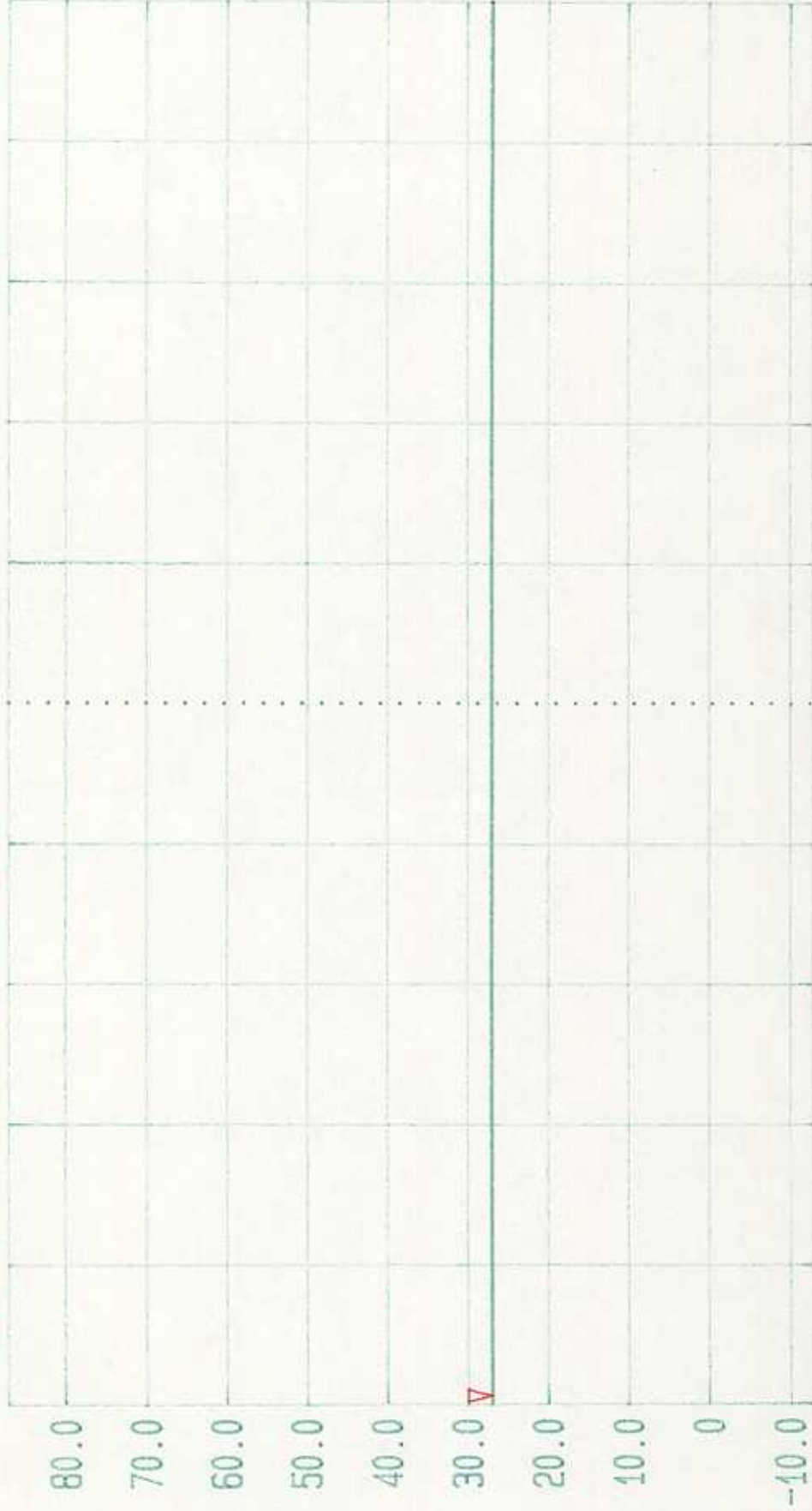
26.85 dBuV
17.32095 GHz

Res. Bw
TG. Lvl
CF. Stop

1 MHz [impJ]
Off
5.775 GHz

Vid. Bw
RF. Att
Unit

10 Hz
10 dB
[dBuV]



Start
17.32087 GHz

Span
10 MHz

Center
17.32587 GHz

Sweep
15.0 s

Stop
17.33087 GHz



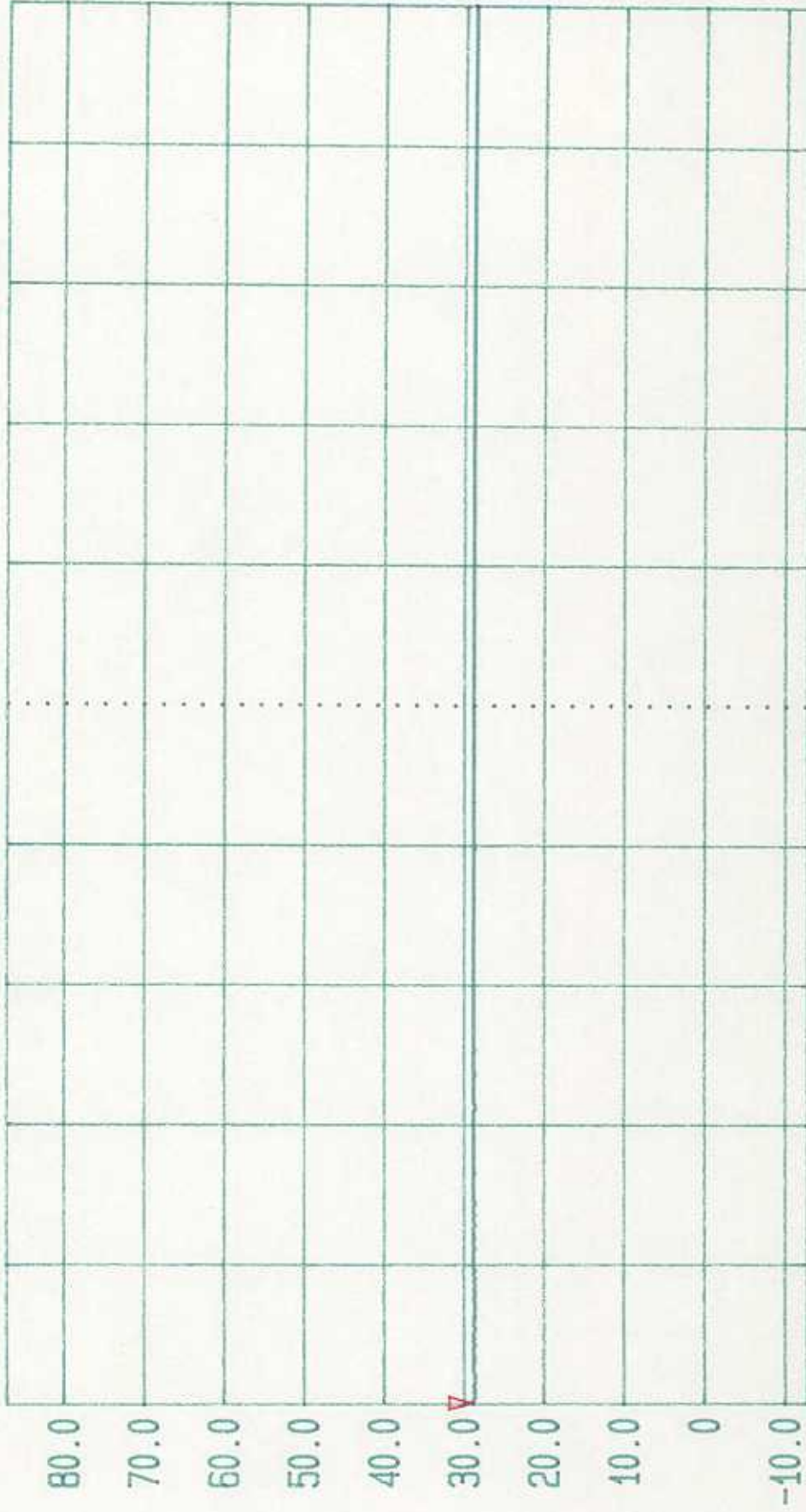
Date 07.Aug.'03 Time 22:26:53

Ref.Lvl 87.00 dB μ V
Marker 28.68 dB μ V
23.09525 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
Off
5.775 GHz

Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start
23.09523 GHz

Span
10 MHz

Center
23.10023 GHz

Sweep
15.0 s

Stop
23.10523 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

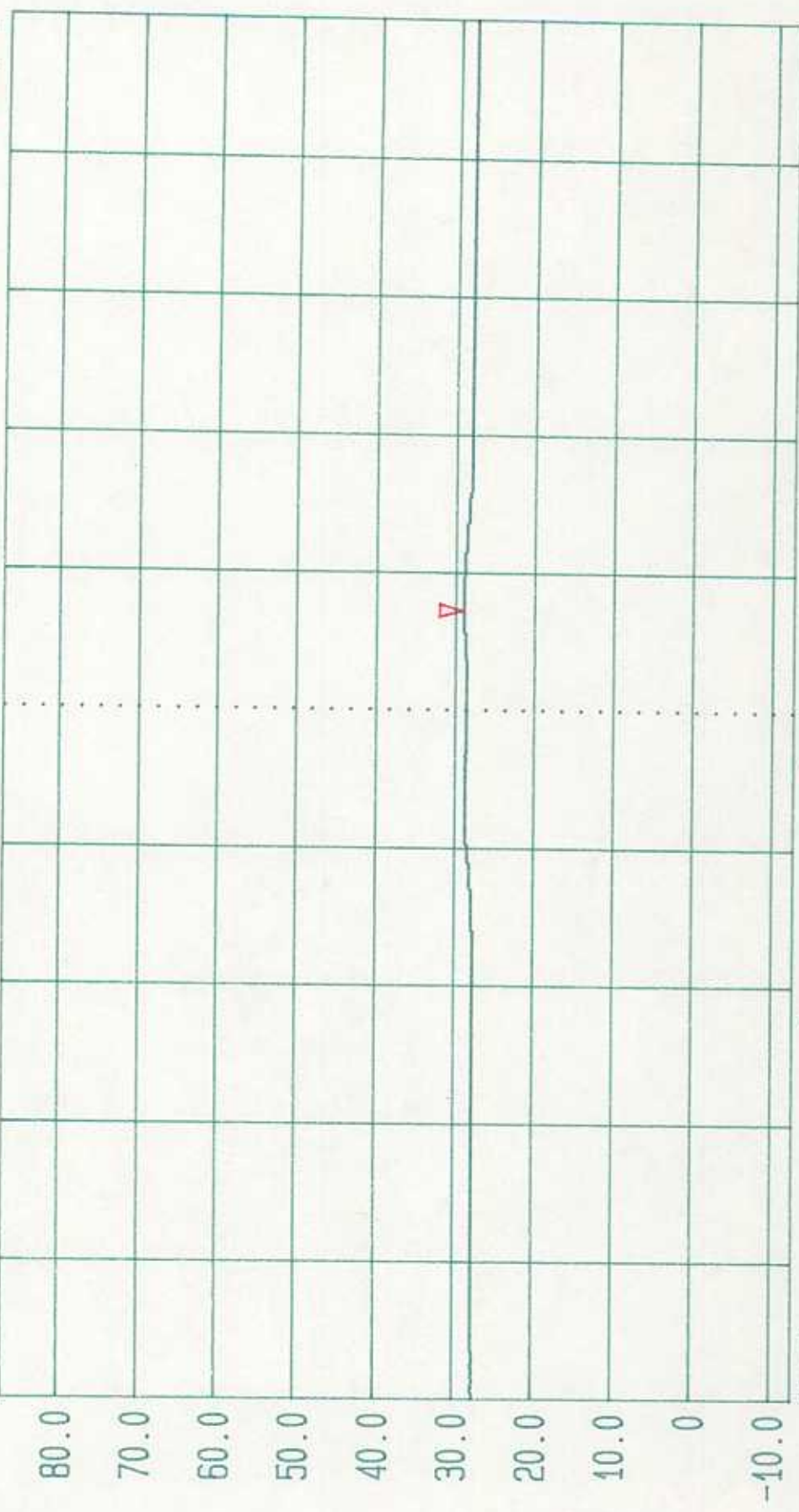
Test: Radiated Spurious Emissions
Channel: Center
Antenna: 14dBi Corner



Date 13. Aug. '03 Time 03:12:18

Ref. Lvl 87.00 dB μ V
Marker 29.08 dB μ V
11.55135 GHz

Res. Bw 1 MHz [imp] Vid. Bw 10 Hz
TG. Lvl Off
CF. Stp 5.775 GHz RF. Att 10 dB
Unit [dB μ V]



Start 11.54562 GHz Span 10 MHz Sweep 15.0 s Stop 11.55562 GHz
Center 11.55062 GHz

Handwritten notes:
11.55135 GHz
29.08 dB μ V
11.55135 GHz



Date 05.Aug.'03 Time 23:10:40

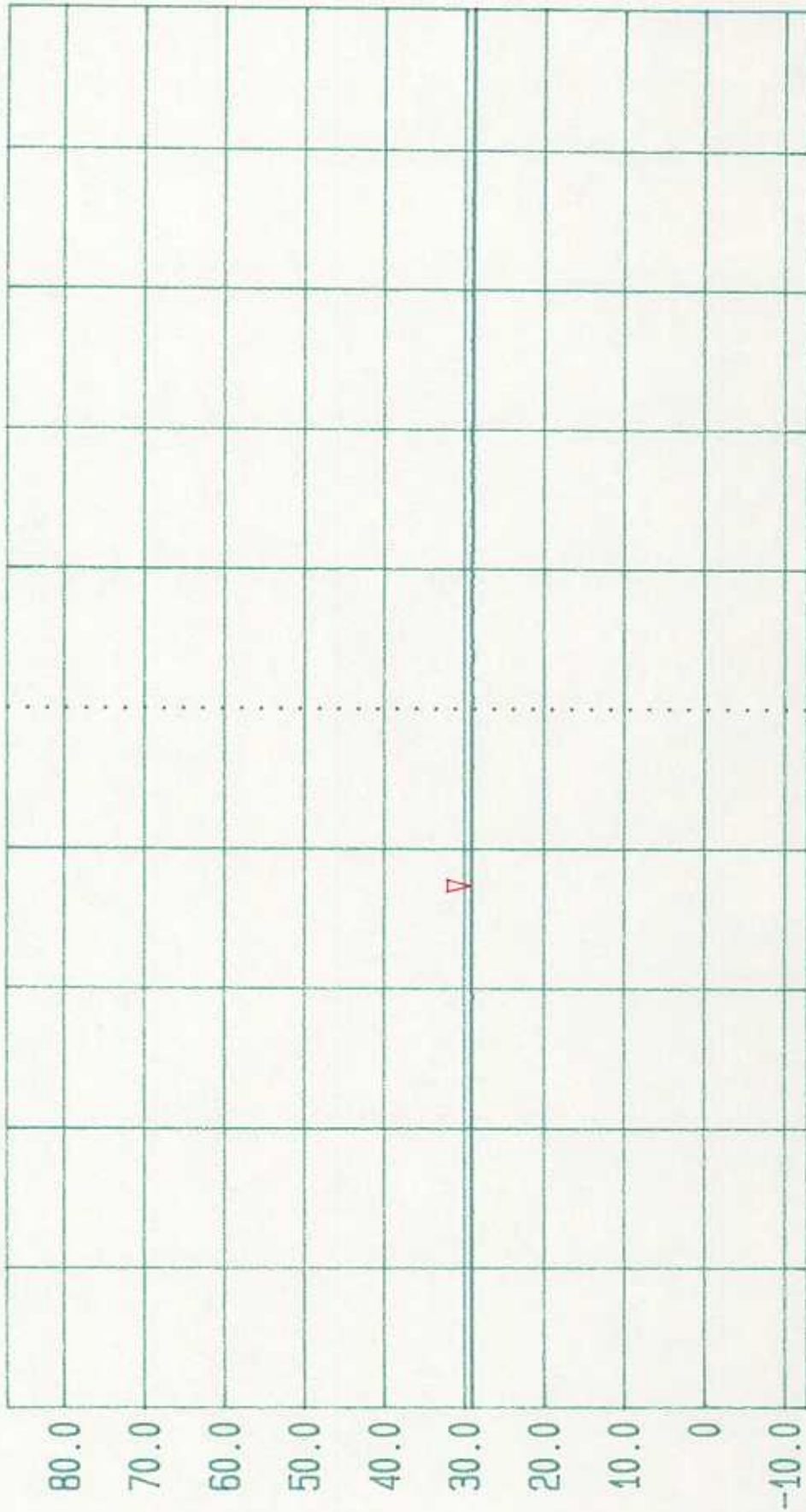
Ref.Lvl 87.00 dB μ V

Marker

28.98 dB μ V
17.32494 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp

Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start 17.3212 GHz

Span 10 MHz

Center 17.3262 GHz

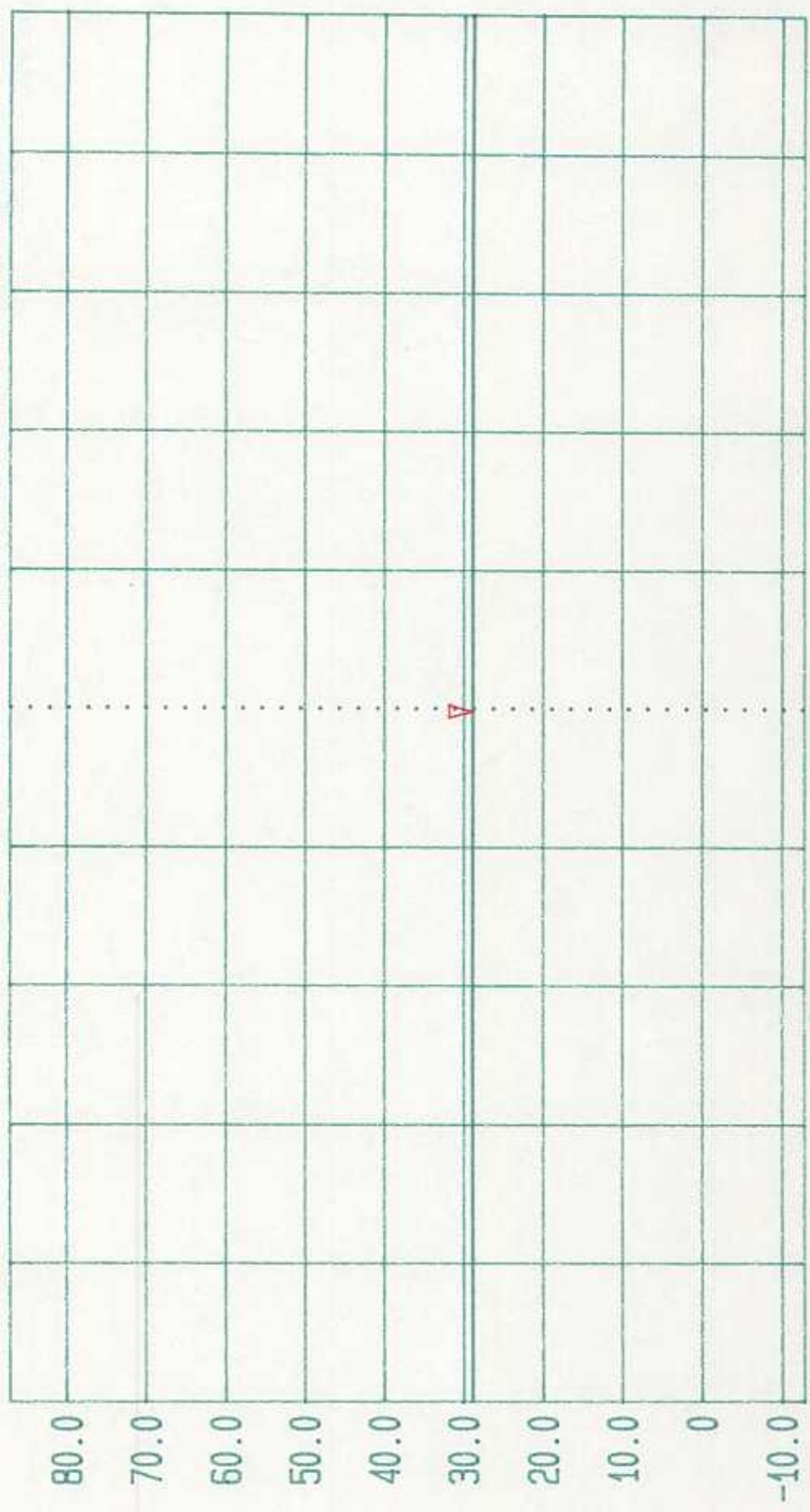
Sweep 15.0 s

Stop 17.3312 GHz



Date 07.Aug.'03 Time 21:04:09
Ref.Lvl 87.00 dB μ V
Marker 28.80 dB μ V
23.10127 GHz

Res.Bw 1 MHz [imp] Off
TG.Lvl
CF.Stp
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start 23.09628 GHz
Span 10 MHz
Center 23.10128 GHz
Sweep 15.0 s
Stop 23.10628 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: Center
Antenna: 14dBi Patch



Date 13. Aug. '03 Time 02:53:28

Ref. Lvl 87.00 dB μ V

Marker

29.01 dB μ V

11.55138 GHz

11.55138 GHz

Res. Bw 1 MHz [imp] Off
TG. Lvl
CF. Stp

Vid. Bw 10 Hz

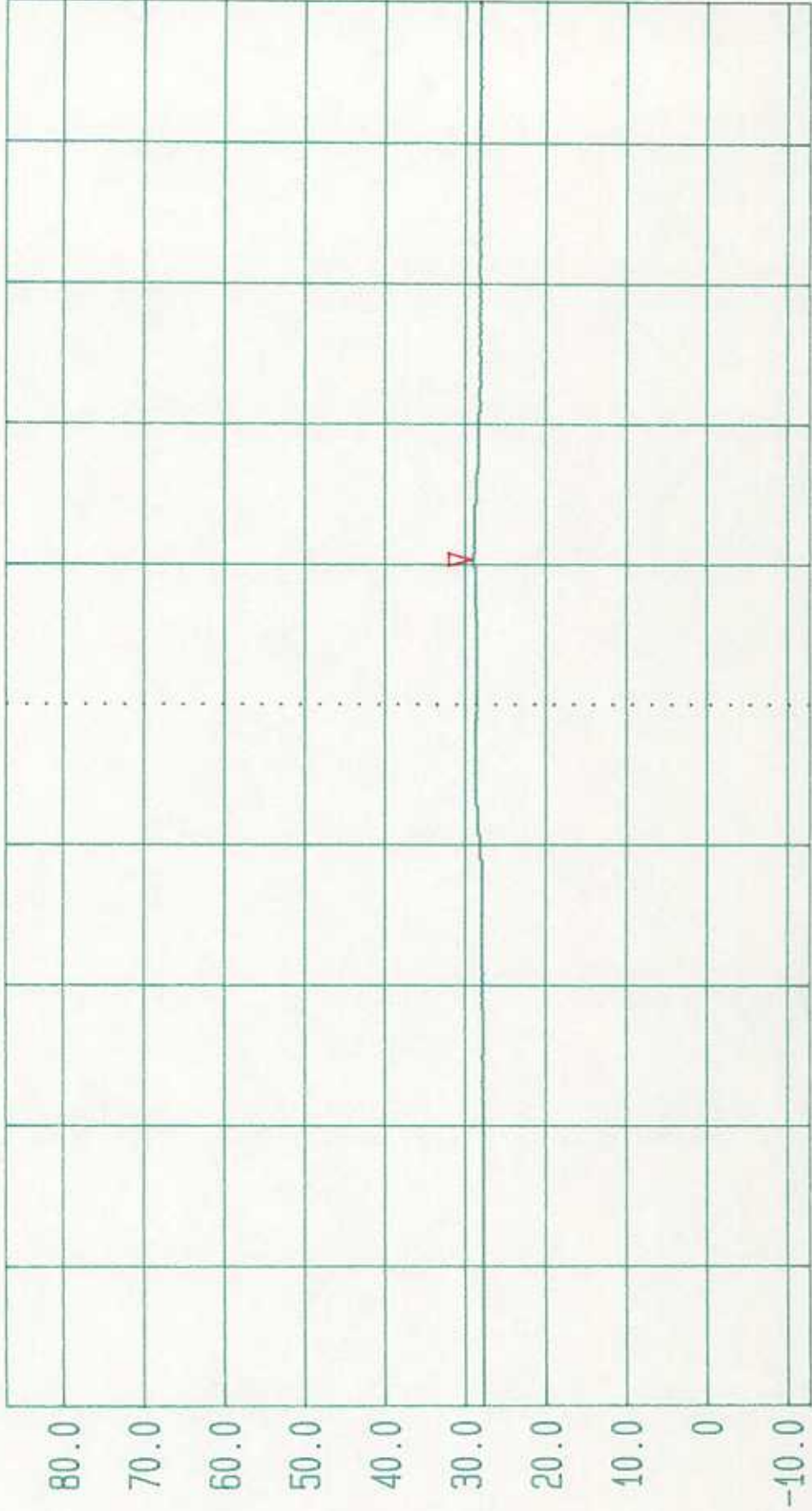
5.775 GHz

RF. Att

Unit

10 dB

[dB μ V]



Start 11.54534 GHz
Span 10 MHz
Center 11.55034 GHz
Sweep 15.0 s
Stop 11.55534 GHz



Date 06.Aug.'03 Time 22:05:56

Ref.Lvl 87.00 dB μ V

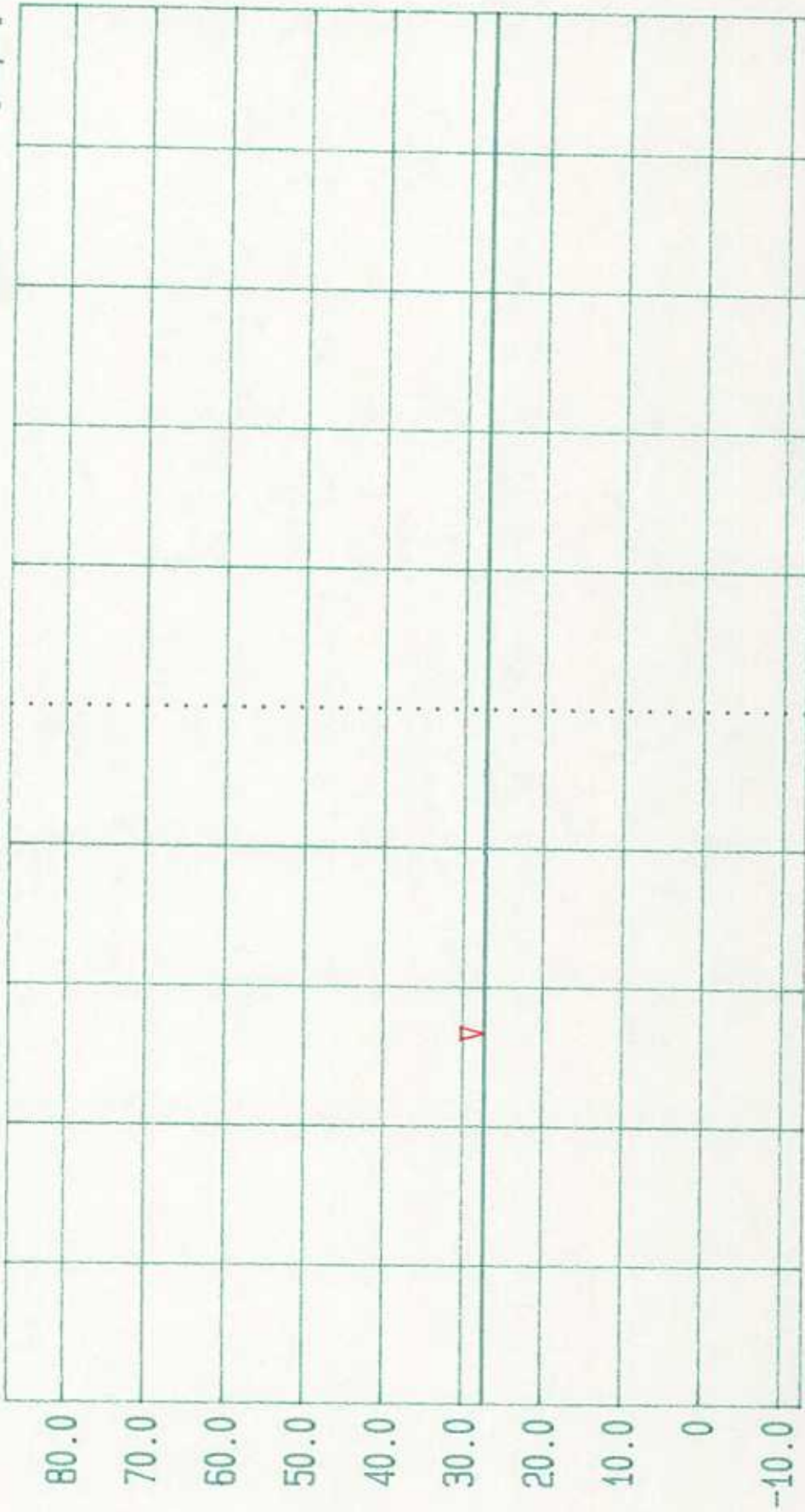
Marker

27.18 dB μ V
17.32360 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.775 GHz

Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start
17.32093 GHz

Span
10 MHz

Center
17.32593 GHz

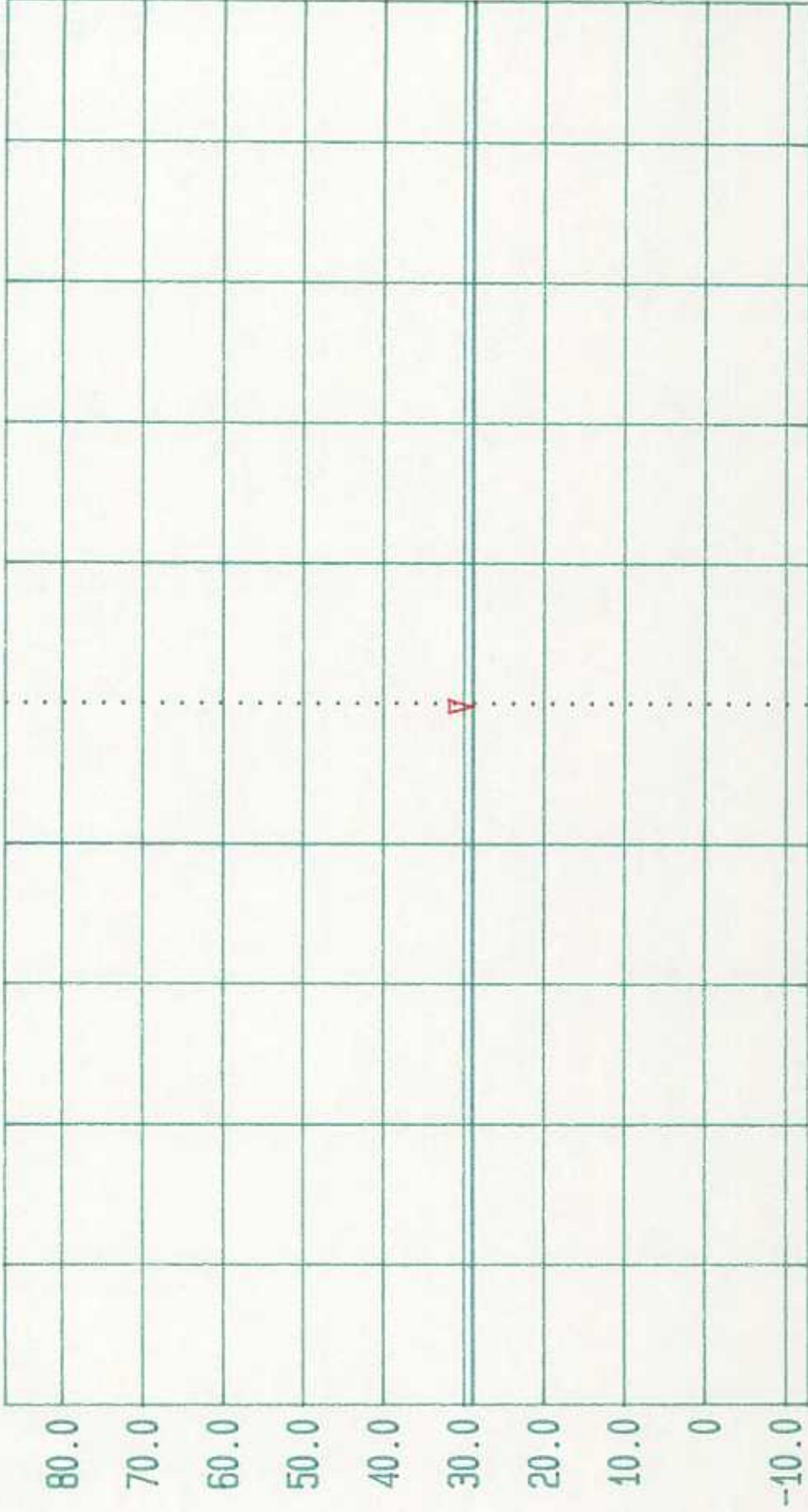
Sweep
15.0 s

Stop
17.33093 GHz



Date 07. Aug. '03 Time 21:36:48
Ref. Lvl 87.00 dB μ V
Marker 28.88 dB μ V
23.10122 GHz

Res. Bw 1 MHz [imp]
TG. Lvl Off
CF. Stp 5.775 GHz
Vid. Bw 10 Hz
RF. Att 10 dB
Unit [dB μ V]



Start 23.09624 GHz
Span 10 MHz
Center 23.10124 GHz
Sweep 15.0 s
Stop 23.10624 GHz

Data Plots

ACS Report Number: 03-0143-15BC

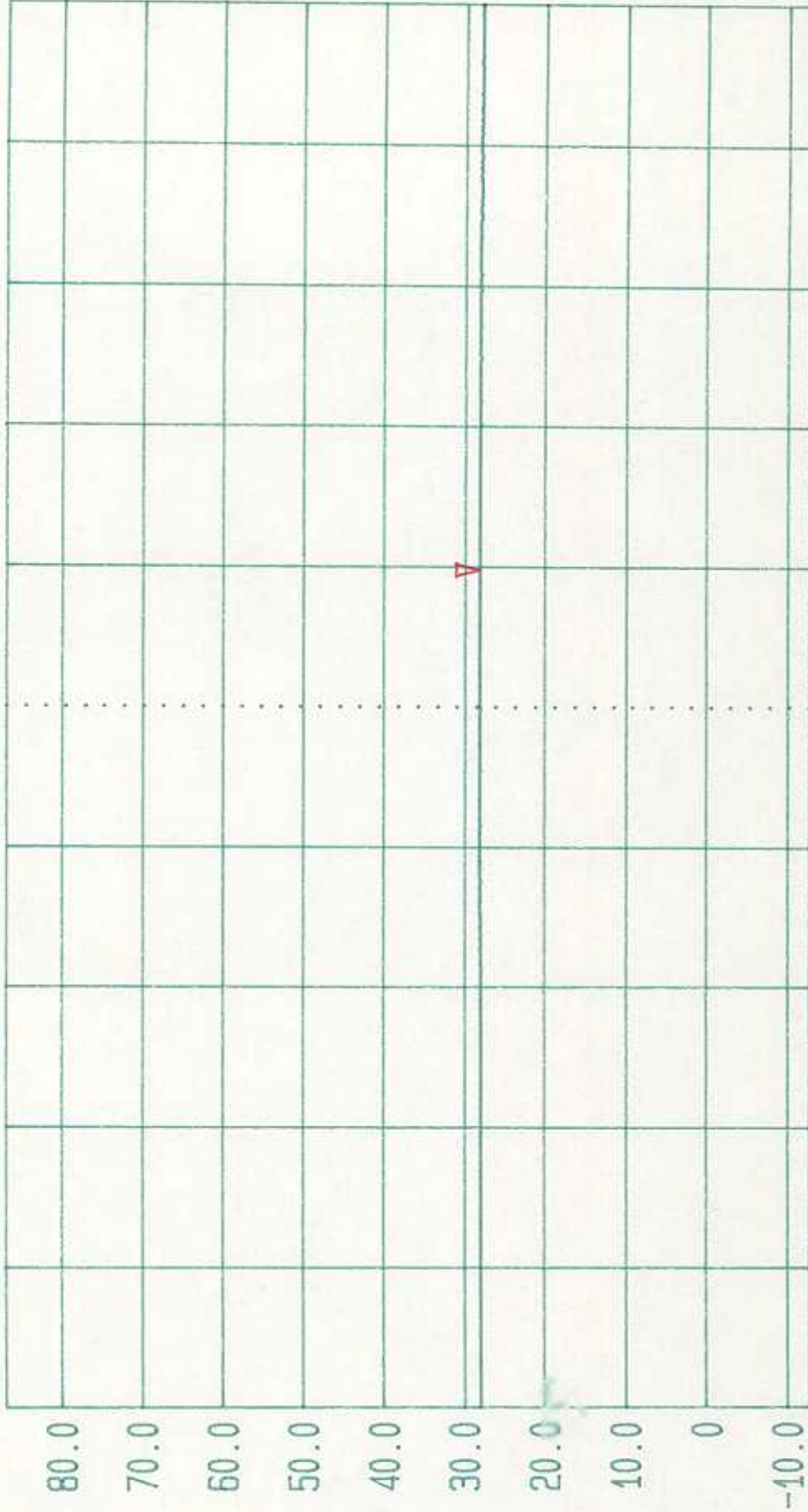
Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: Center
Antenna: Large Omni



Date 13. Aug. '03 Time 03:49:17
Ref. Lvl 87.00 dB μ V
Marker 28.14 dB μ V
11.55161 GHz

Res. Bw 1 MHz [imp] Off
TG. Lvl
CF. Stp
Vid. Bw 10 Hz
RF. Att 10 dB
Unit [dB μ V]



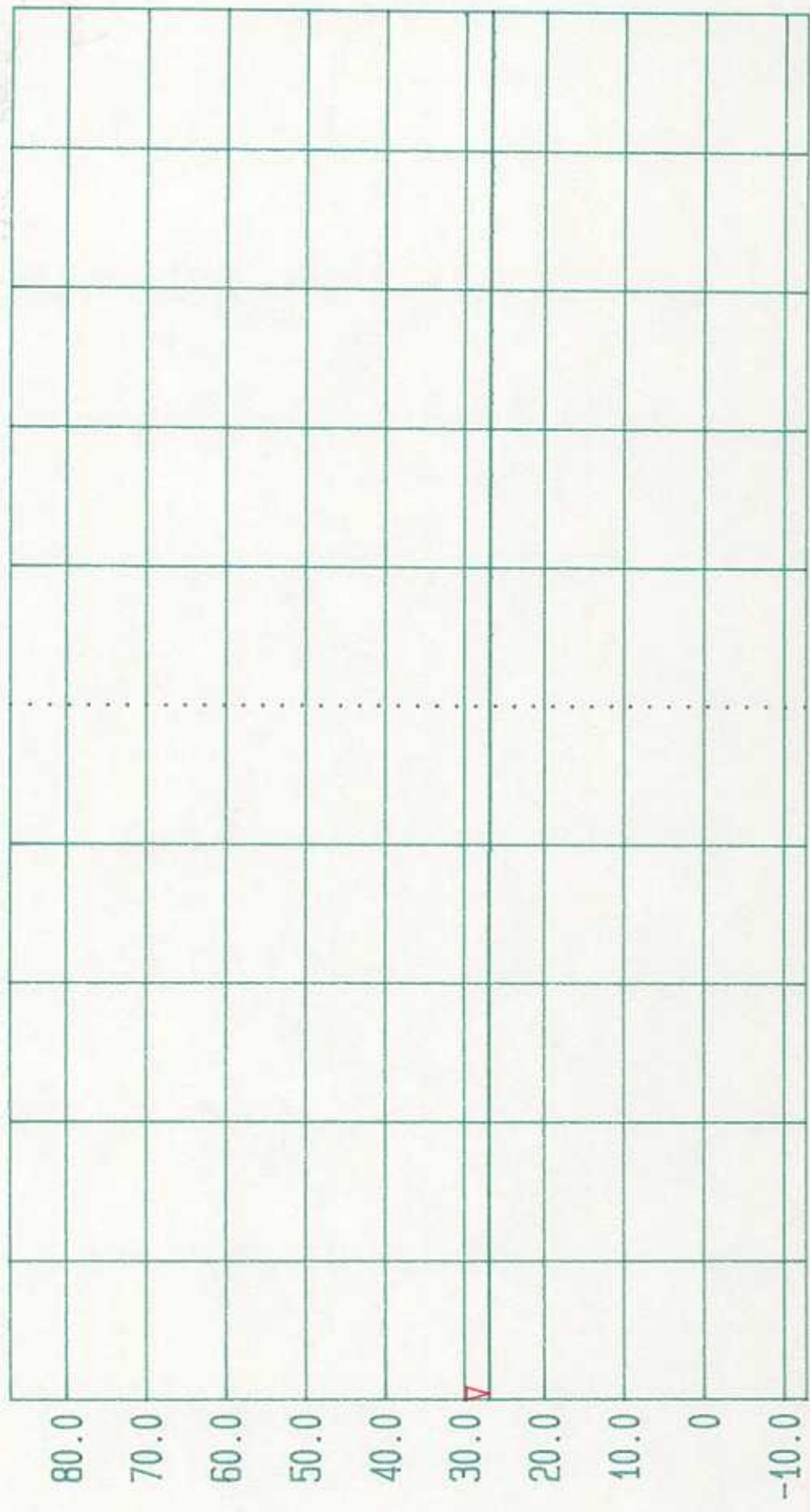
Start 11.54562 GHz
Span 10 MHz
Center 11.55062 GHz
Sweep 15.0 s
Stop 11.55562 GHz

3710-10



Date 07.Aug.'03 Time 03:09:44
Ref.Lvl 87.00 dBμV
Marker 26.87 dBμV
17.32120 GHz

Res.Bw 1 MHz [imp] Off
TG.Lvl CF.Stp
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dBμV]

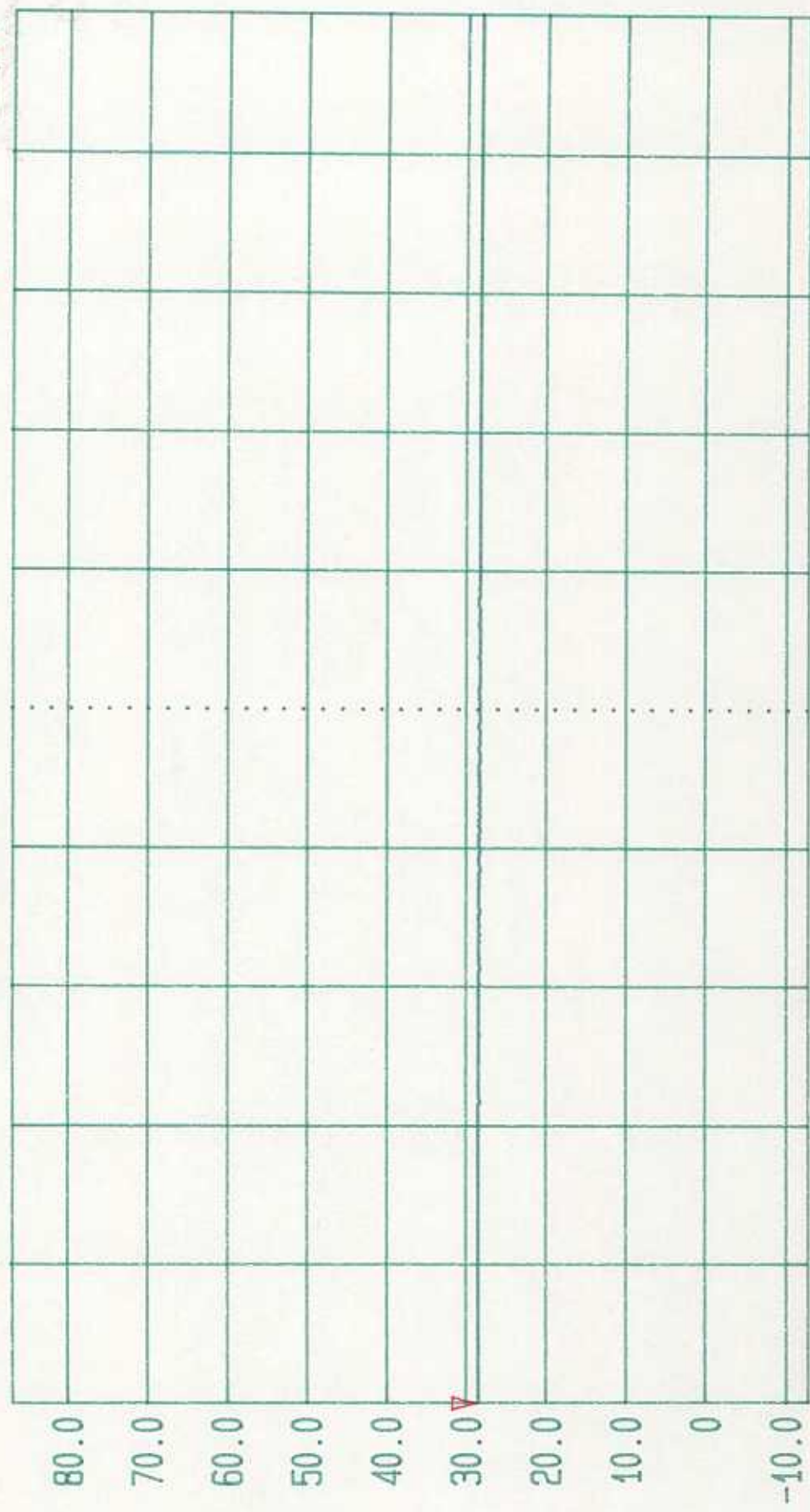


Start 17.32114 GHz Span 10 MHz Center 17.32614 GHz Sweep 15.0 s Stop 17.33114 GHz



Date 07. Aug. '03 Time 04:04:48
Ref.Lvl1 87.00 dB μ V
Marker 28.85 dB μ V
23.09584 GHz

Res.Bw 1 MHz [imp] off
TG.Lvl1 5.775 GHz
CF.Stp
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start 23.09584 GHz
Center 23.10084 GHz
Span 10 MHz
Sweep 15.0 s
Stop 23.10584 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: High
Antenna: 0dBi Omni



Date 13. Aug. '03 Time 01:43:41

Ref. Lvl 87.00 dB μ V

Marker

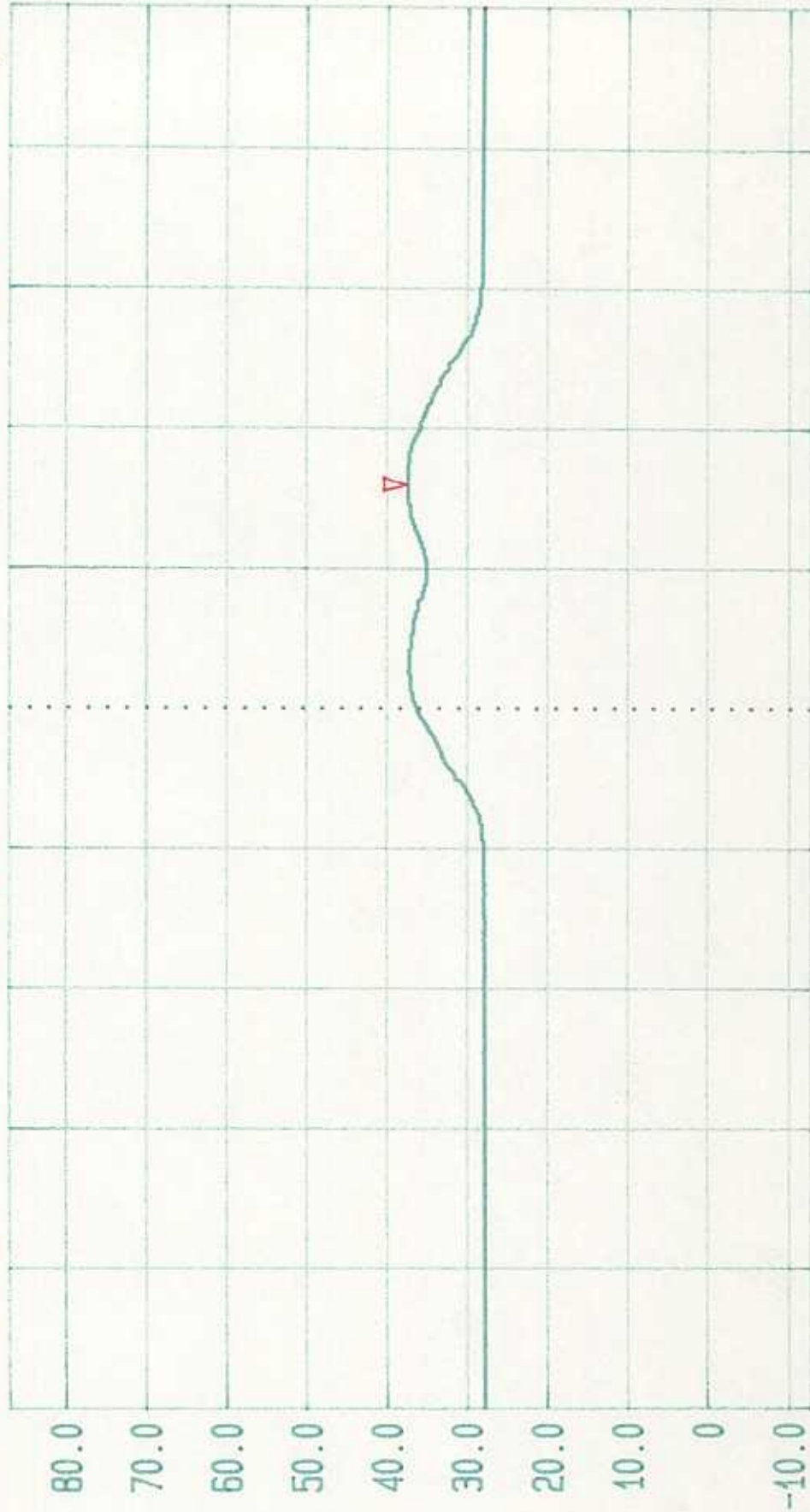
37.44 dB μ V
11.64239 GHz

Res. Bw
TG. Lvl
CF. Stp

1 MHz [imp]
Off
5.820 GHz

Vid. Bw
RF. Att
Unit

10 Hz
10 dB
[dB μ V]



Start
11.63579 GHz

Span
10 MHz

Center
11.64079 GHz

Sweep
15.0 s

Stop
11.64579 GHz



Date 07. Aug. '03 Time 02:07:41

Ref. Lvl 87.00 dB μ V

Marker

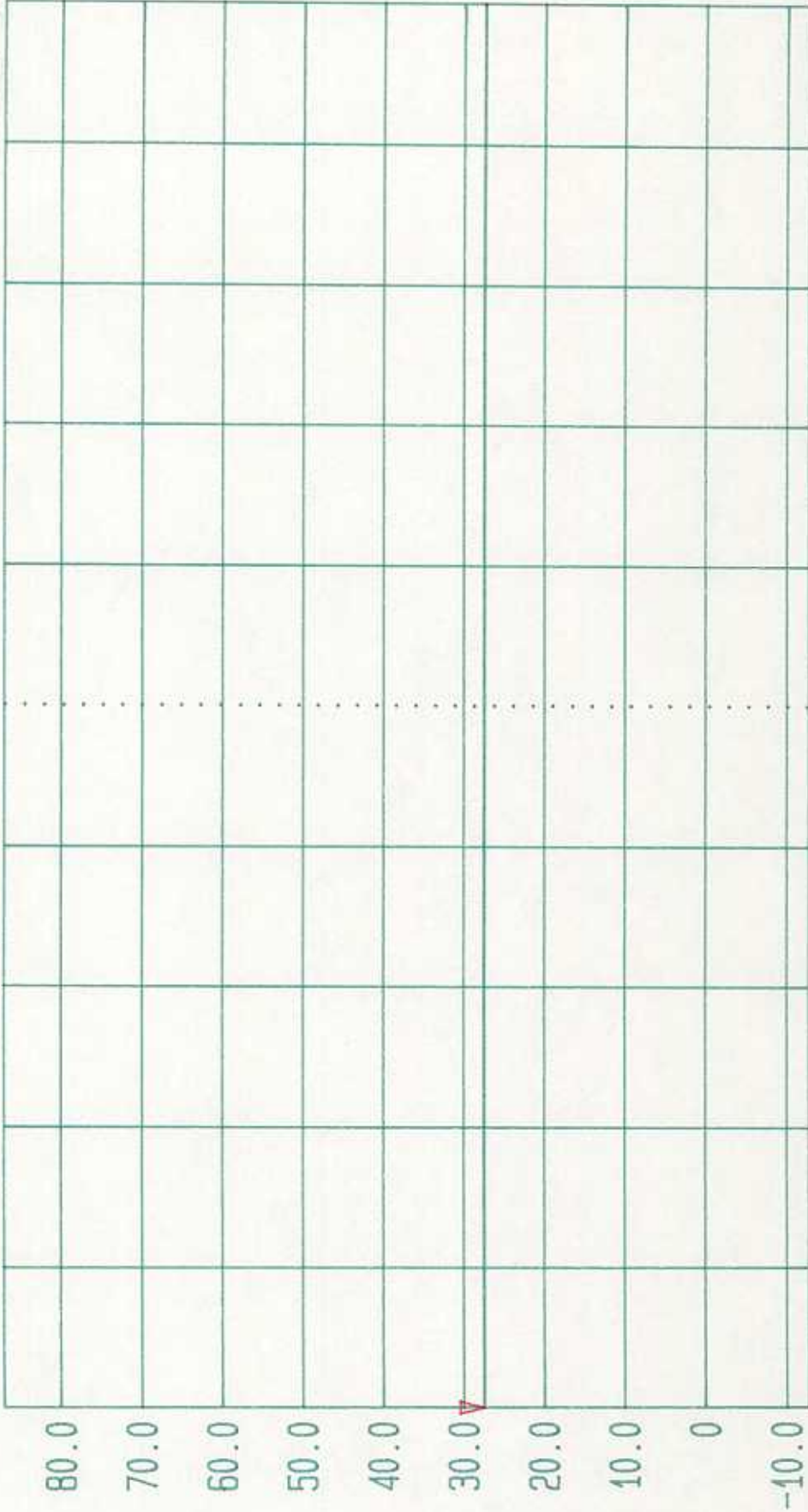
27.33 dB μ V
17.45753 GHz

Res. Bw
TG. Lvl
CF. Stp

1 MHz [imp]
off
5.820 GHz

Vid. Bw
RF. Att
Unit

10 Hz
10 dB
[dB μ V]



Start
17.45752 GHz

Span
10 MHz

Center
17.46252 GHz

Sweep
15.0 s

Stop
17.46752 GHz



Date 07.Aug.'03 Time 22:16:54

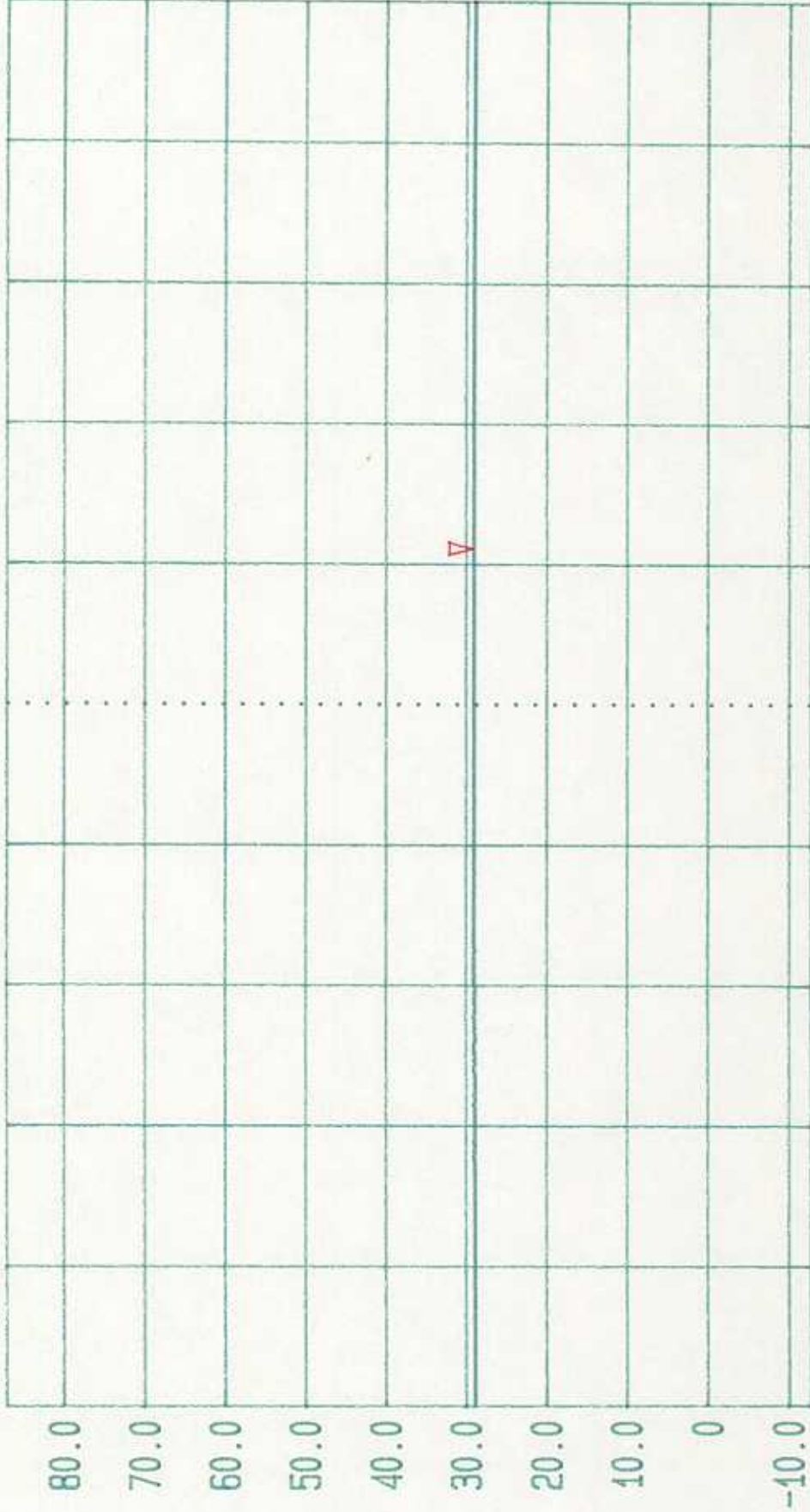
Ref.Lvl 87.00 dB μ V
Marker 29.08 dB μ V
23.28187 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
Off
5.775 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dB μ V]



Start
23.27575 GHz

Span
10 MHz

Center
23.28075 GHz

Sweep
15.0 s

Stop
23.28575 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

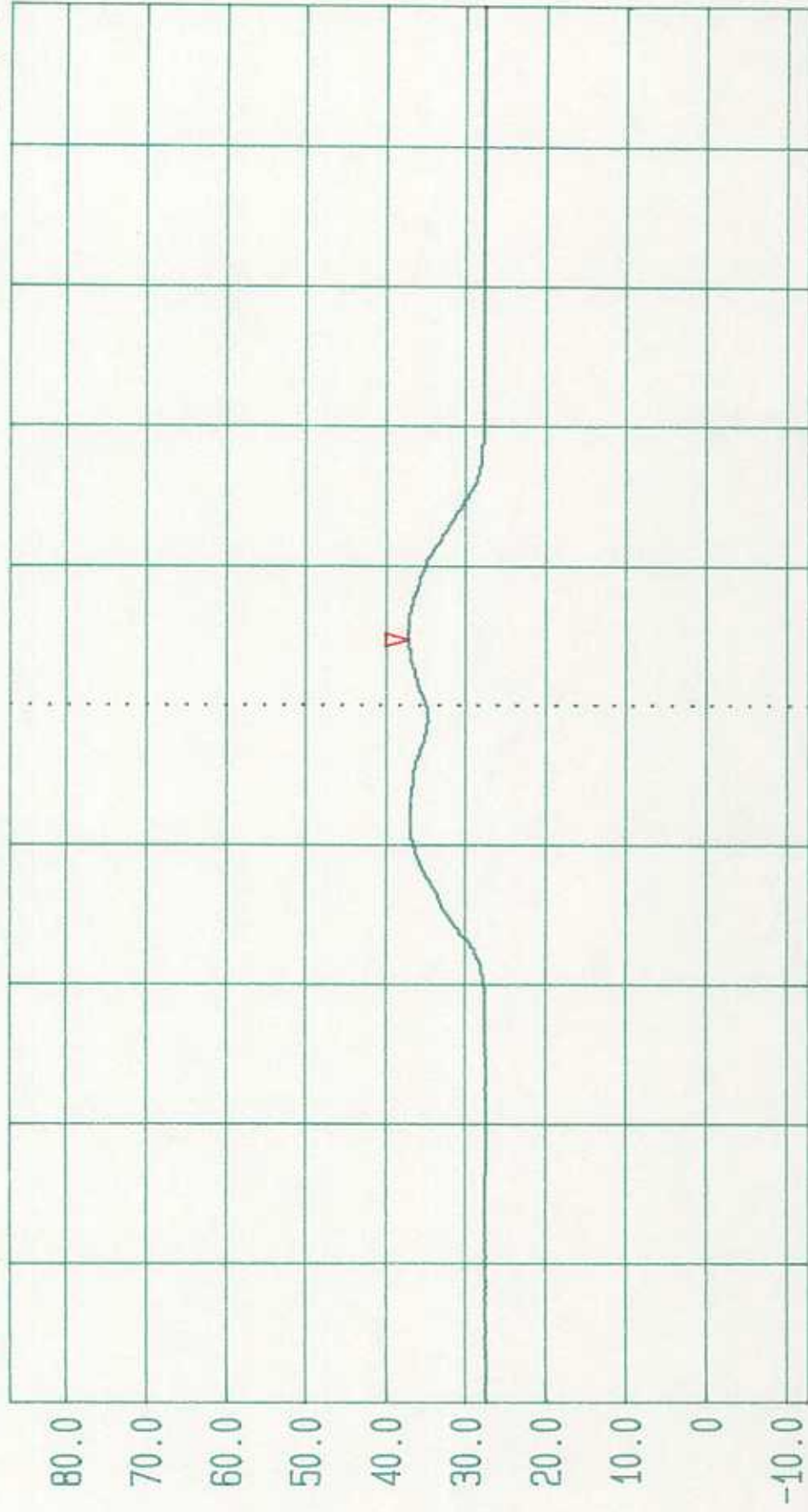
Test: Radiated Spurious Emissions
Channel: High
Antenna: 14dBi Corner



Date 13. Aug. '03 Time 03:20:19

Ref.Lvl 87.00 dB μ V
Marker 37.26 dB μ V
11.64218 GHz

Res.Bw TG.Lvl1 CF.Stp
1 MHz [imp] Off
5.820 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start 11.63671 GHz Span 10 MHz Center 11.64171 GHz Sweep 15.0 s Stop 11.64671 GHz

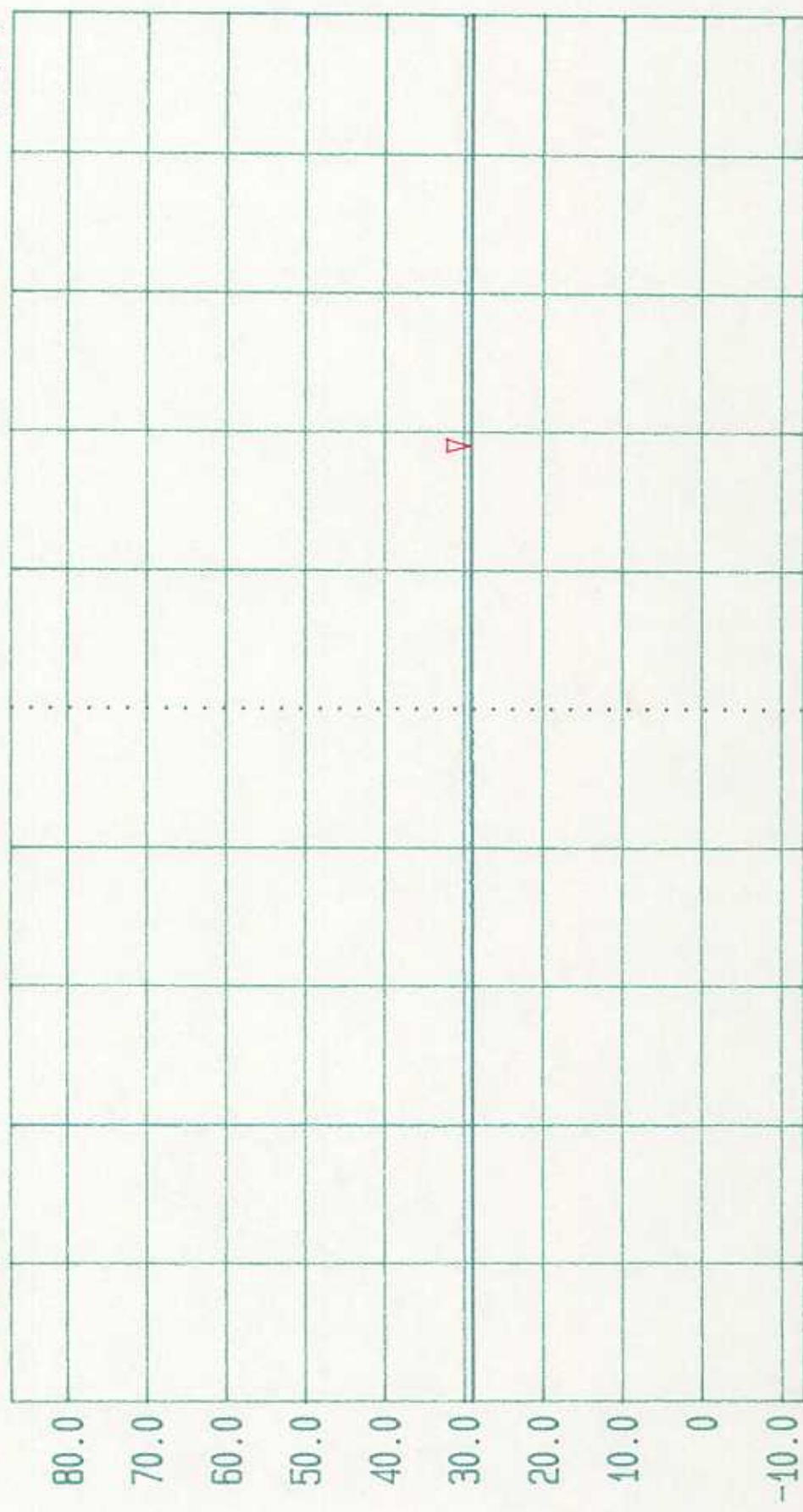


Date 05.Aug.'03 Time 23:35:35

Ref.Lvl 87.00 dB μ V
Marker 29.06 dB μ V
17.46457 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 5.820 GHz

Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



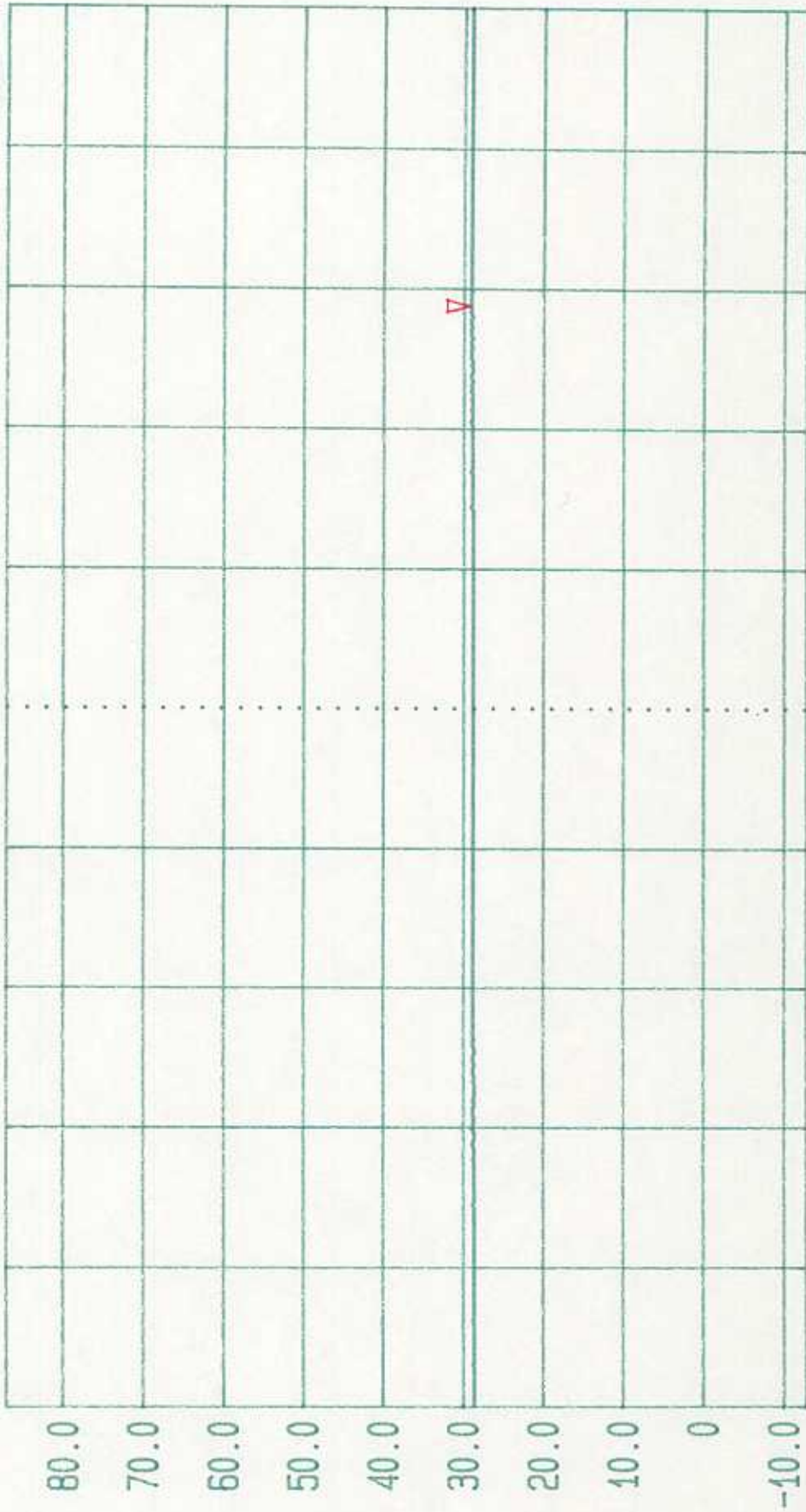
Start 17.45767 GHz Span 10 MHz Center 17.46267 GHz Sweep 15.0 s Stop 17.46767 GHz



Date 07.Aug.'03 Time 21:12:43

Ref.Lvl 87.00 dB μ V
Marker 28.98 dB μ V
23.28612 GHz

Res.Bw 1 MHz [imp] Vid.Bw 10 Hz
TG.Lvl Off
CF.Stp 5.820 GHz RF.Att 10 dB
Unit [dB μ V]



Start 23.27824 GHz Span 10 MHz Center 23.28324 GHz Sweep 15.0 s Stop 23.28824 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

Test: Radiated Spurious Emissions
Channel: High
Antenna: 14dBi Patch



Date 13.Aug.'03 Time 02:46:58

Ref.Lvl 87.00 dB μ V

Marker

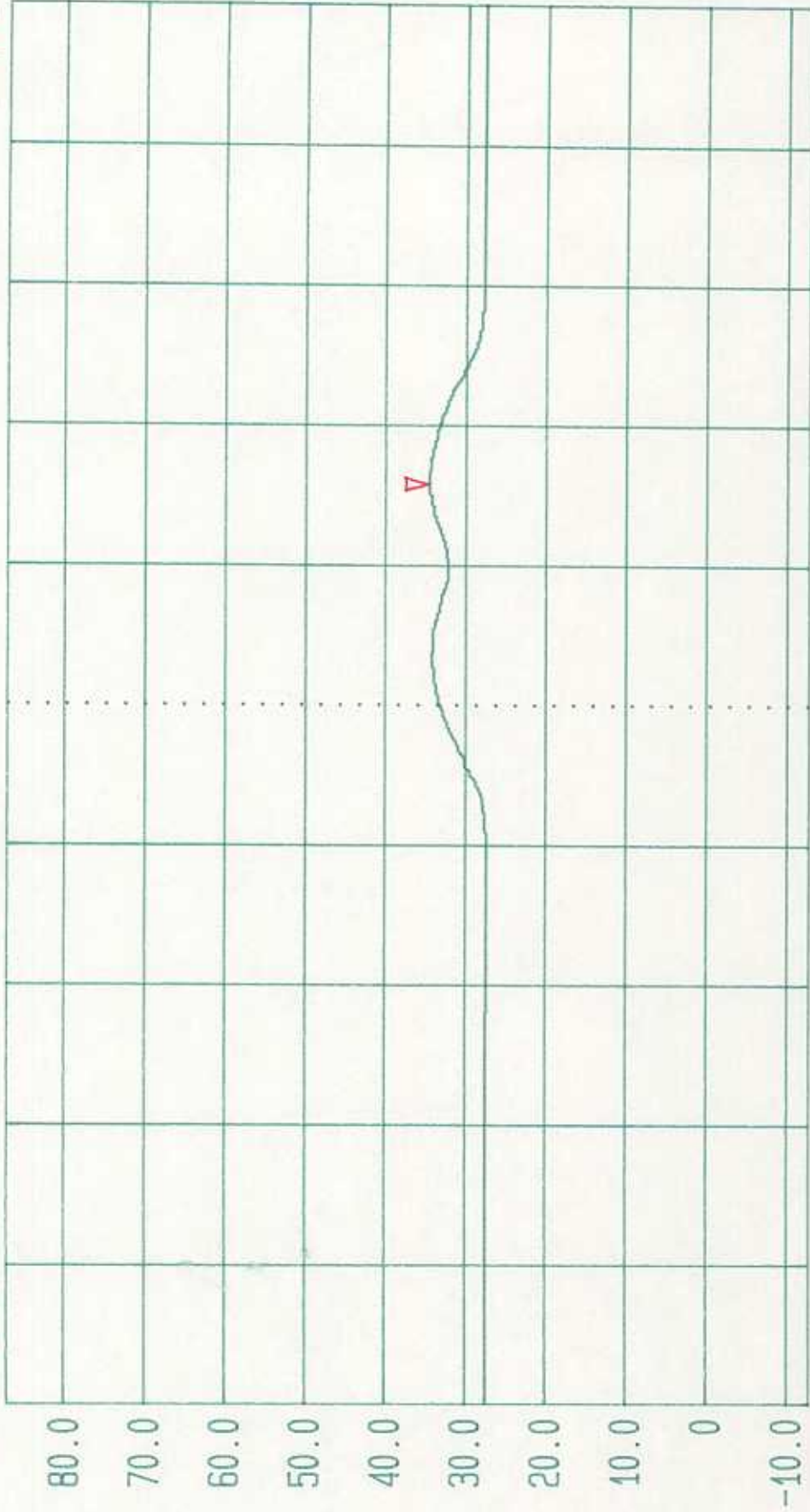
34.59 dB μ V
11.64236 GHz

Res.Bw
TG.Lvl
CF.Stp

1 MHz [imp]
off
5.820 GHz

Vid.Bw
RF.Att
Unit

10 Hz
10 dB
[dB μ V]



Start
11.63577 GHz

Span
10 MHz

Center
11.64077 GHz

Sweep
15.0 s

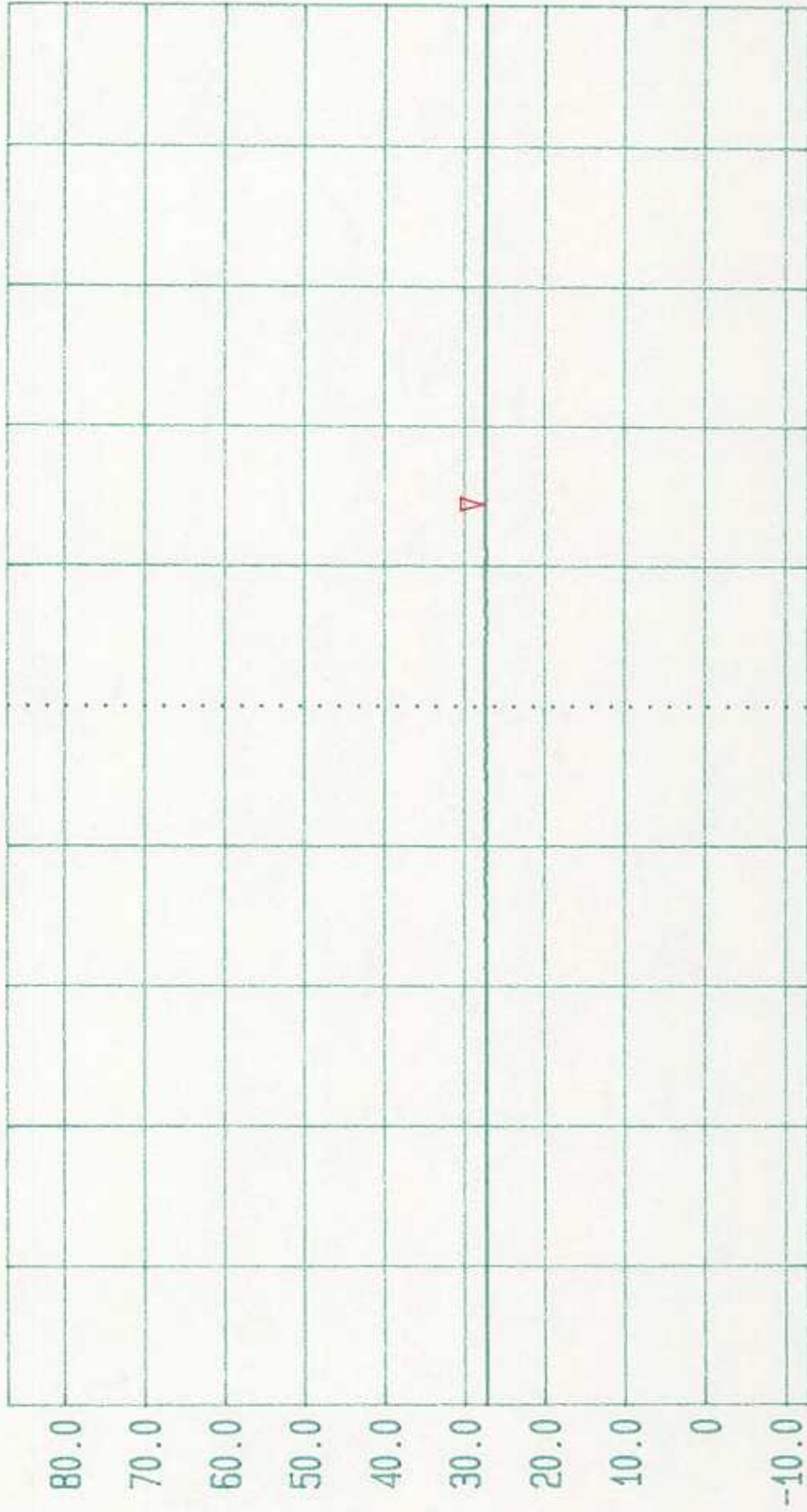
Stop
11.64577 GHz



Date 06.Aug.'03 Time 22:35:59

Ref.Lvl 87.00 dB μ V
Marker 27.30 dB μ V
17.46391 GHz

Res.Bw 1 MHz [imp]
TG.Lvl off
CF.Stp 5.820 GHz
Vid.Bw 10 Hz
AF.Att 10 dB
Unit [dB μ V]



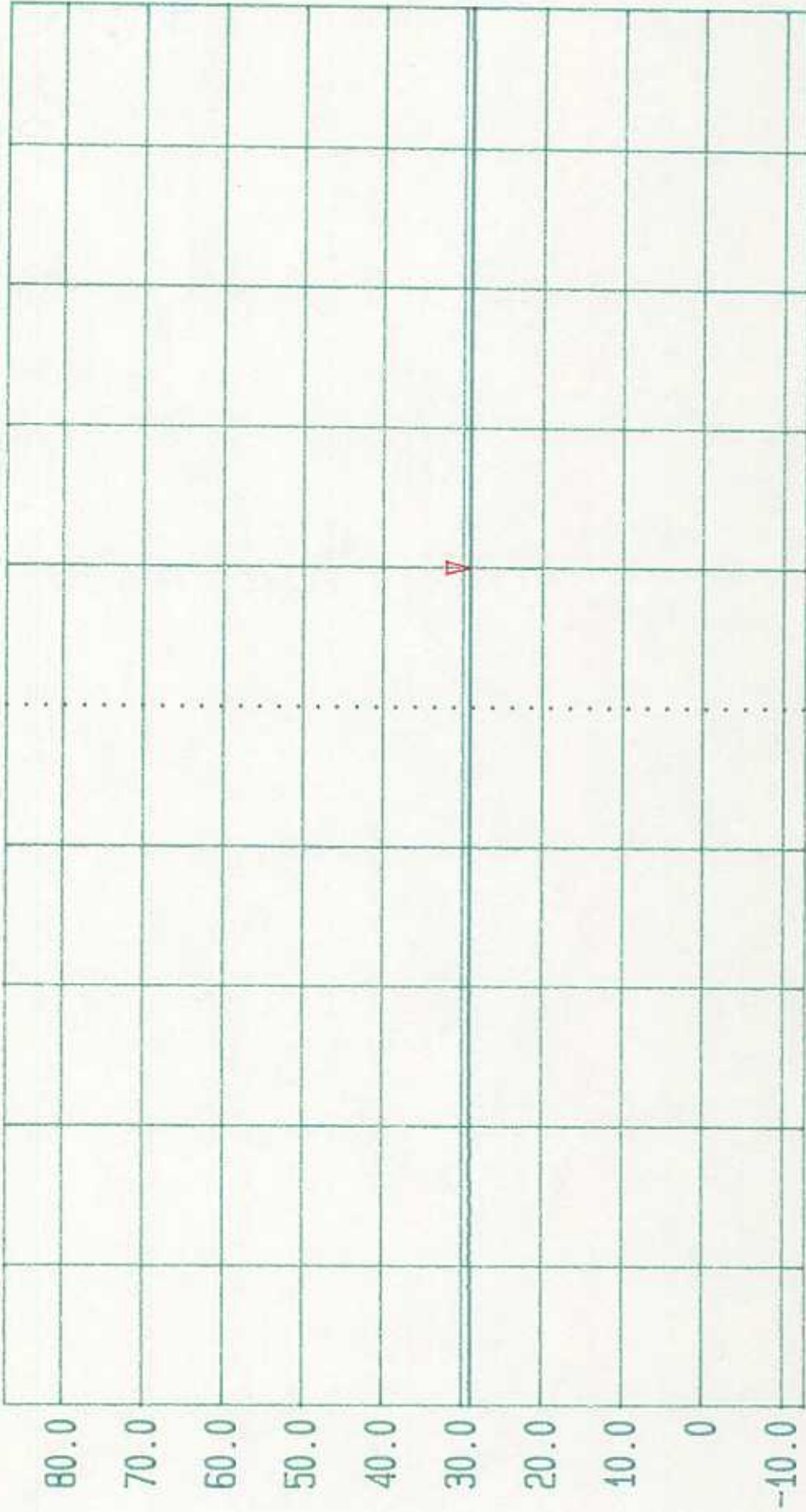
Start 17.45746 GHz
Span 10 MHz
Center 17.46246 GHz
Sweep 15.0 s
Stop 17.46746 GHz



Date 07.Aug.'03 Time 21:49:29

Ref.Lvl 87.00 dB μ V
Marker 29.13 dB μ V
23.28175 GHz

Res.Bw 1 MHz [imp]
TG.Lvl Off
CF.Stp 5.820 GHz
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



Start 23.27575 GHz
Span 10 MHz
Center 23.28075 GHz
Sweep 15.0 s
Stop 23.28575 GHz

Data Plots

ACS Report Number: 03-0143-15BC

Manufacturer: Cirronet, Inc.
Model: WIT5811

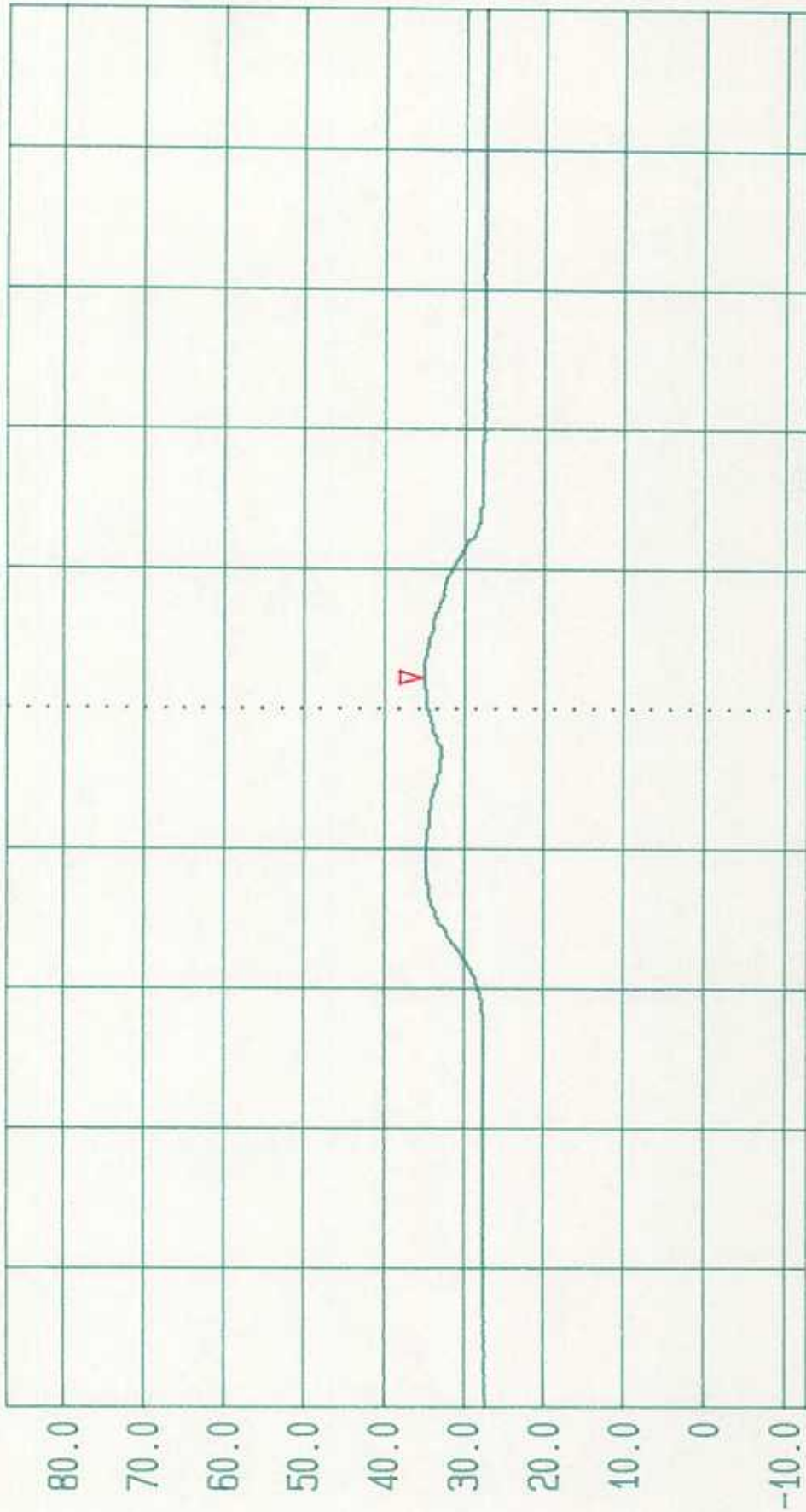
Test: Radiated Spurious Emissions
Channel: High
Antenna: Large Omni



Date 13. Aug. '03 Time 03:42:50

Ref.Lvl 87.00 dB μ V
Marker 35.25 dB μ V
11.64194 GHz

Res.Bw 1 MHz [imp] Off
TG.Lvl
CF.Stp
Vid.Bw 10 Hz
RF.Att 10 dB
Unit [dB μ V]



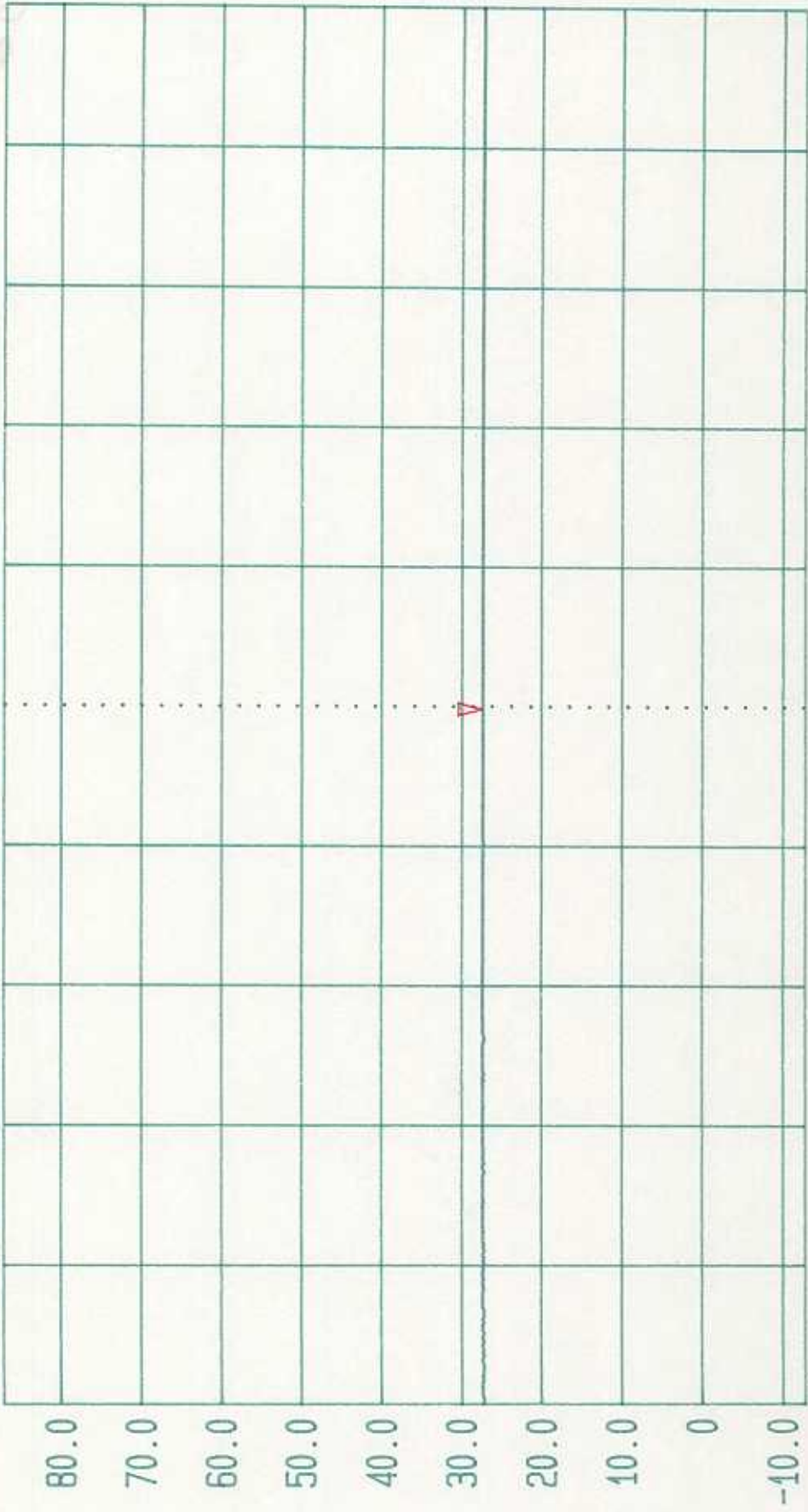
Start 11.63671 GHz
Span 10 MHz
Center 11.64171 GHz
Sweep 15.0 s
Stop 11.64671 GHz

2810-10



Date 07. Aug. '03 Time 02:48:10
Ref. Lvl 87.00 dB μ V
Marker 27.30 dB μ V
17.46251 GHz

Res. Bw 1 MHz [impJ]
TG. Lvl Off
CF. Stp 5.820 GHz
Vid. Bw 10 Hz
RF. Att 10 dB
Unit [dB μ V]



Start 17.45752 GHz
Span 10 MHz
Center 17.46252 GHz
Sweep 15.0 s
Stop 17.46752 GHz



Date 07. Aug. '03 Time 04:28:39

Ref.Lvl
87.00 dB μ V

Marker

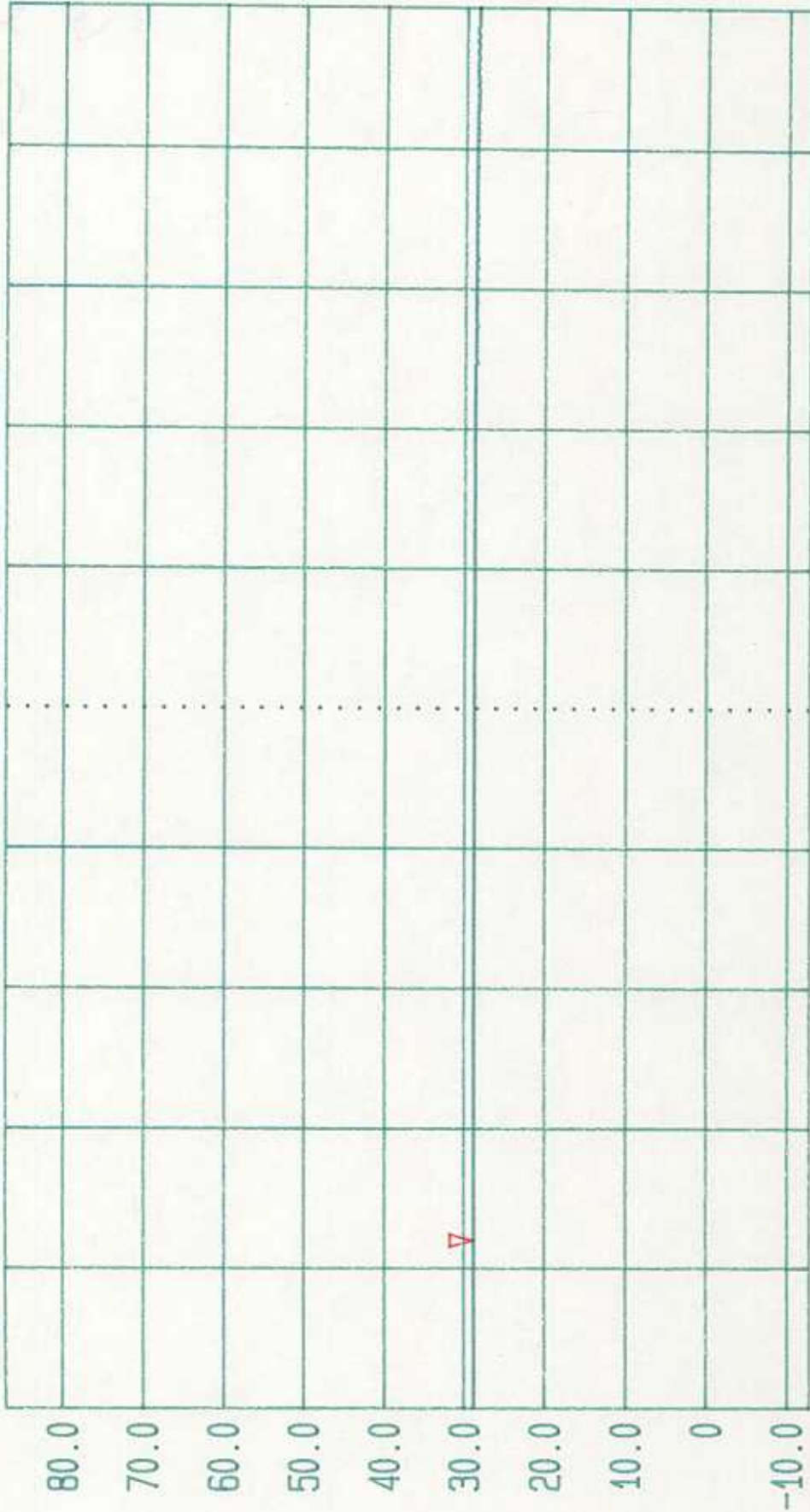
28.85 dB μ V
23.27948 GHz

Res. Bw
TG.Lvl
CF.Stp

1 MHz [imp]
Off
5.820 GHz

Vid. Bw
RF. Att
Unit

10 Hz
10 dB
[dB μ V]



Start
23.27828 GHz

Span
10 MHz

Center
23.28328 GHz

Sweep
15.0 s

Stop
23.28828 GHz