



**Frequency Hopping
Spread Spectrum Transmitter
Modular Approval**

Certification Test Report

FCC ID: HSW-910M

ACS Report Number: 04-0132-15C

**Manufacturer: Cirronet, Inc.
Equipment Type: Transceiver
Model: WIT910**

**Radiated Spurious Emission Plots –
Yagi Antenna**

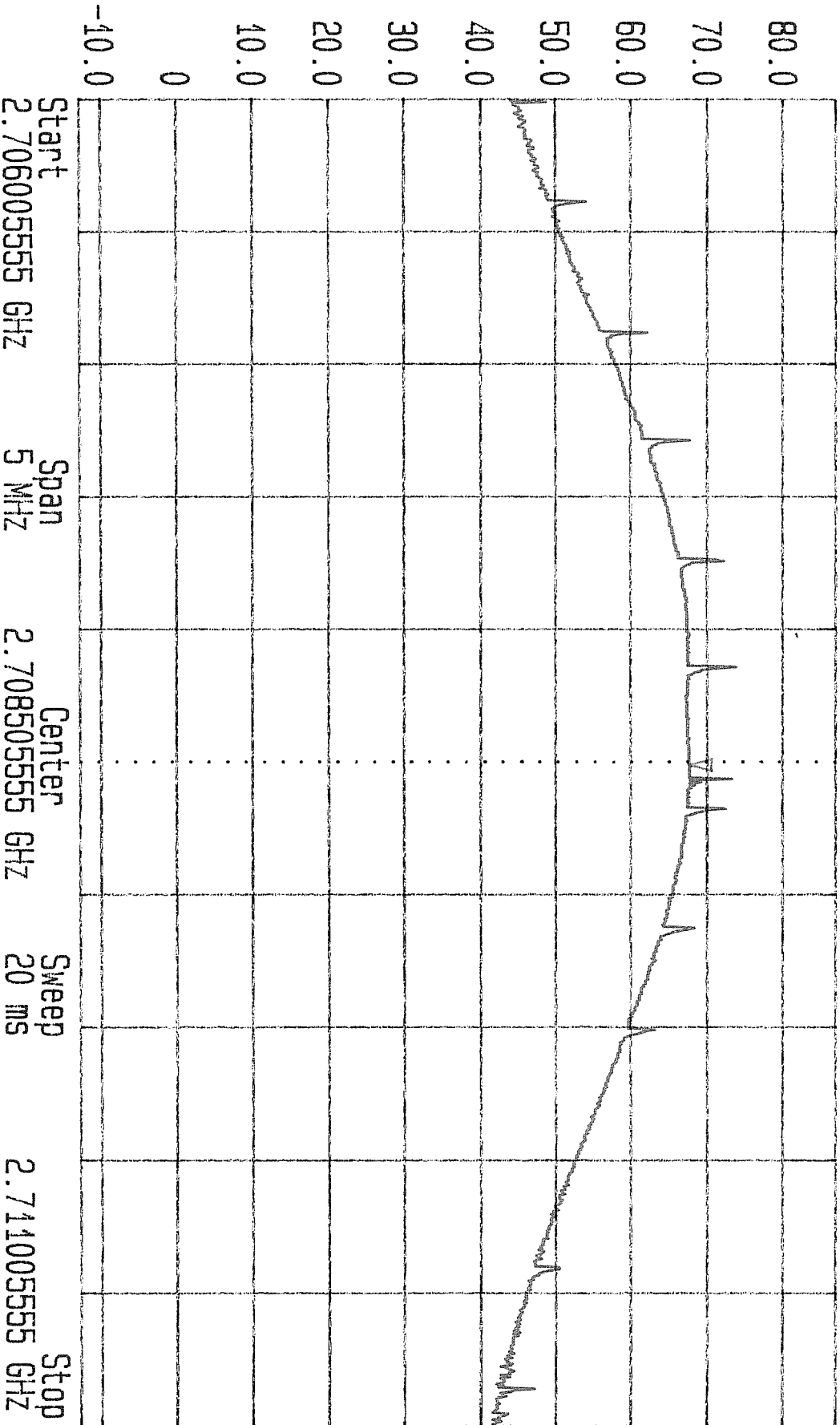


Low Channel



Date 19. May. '04 Time 14:49:43
Ref. Lvl 87.00 dBuV
Marker 67.83 dBuV
2.708522 GHz

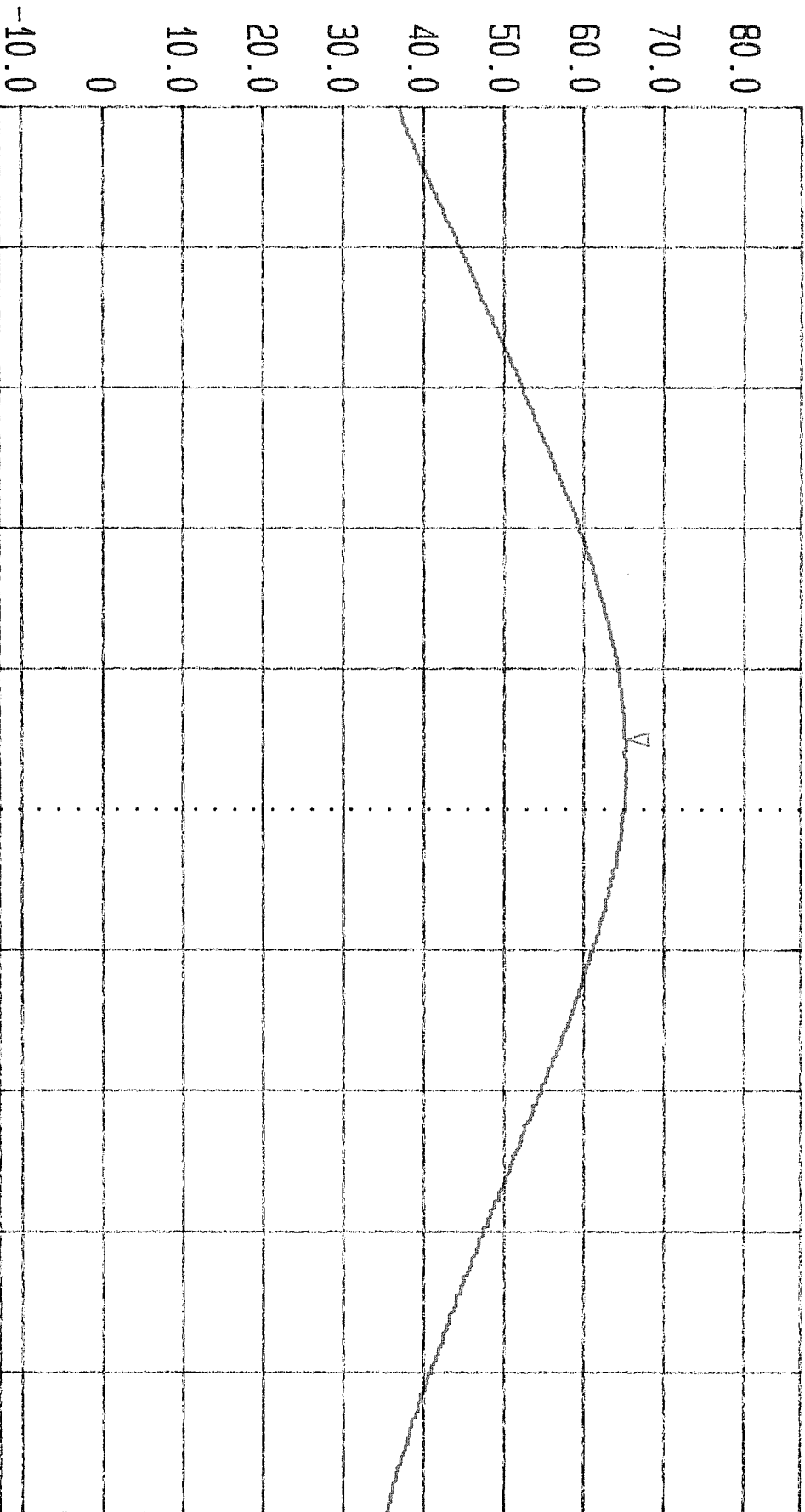
Res. BW 1.0 MHz [3dB]
TG. Lvl off
CF. Stp 902.600 MHz
Vid. BW 1 MHz
RF. Att 10 dB
Unit [dBuV]



Start 2.70605555 GHz
Span 5 MHz
Center 2.708505555 GHz
Sweep 20 ms
Stop 2.711005555 GHz



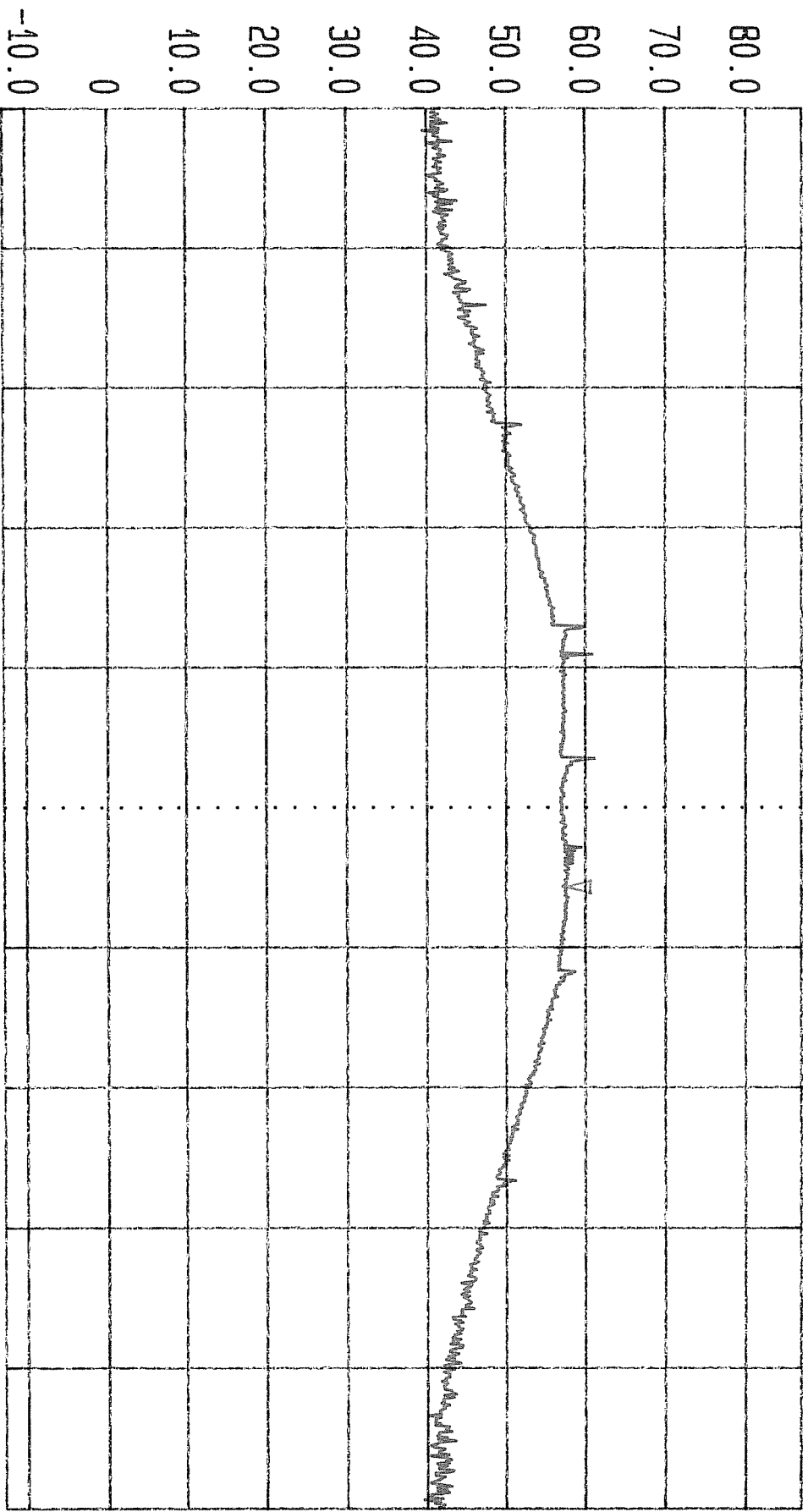
Date 19.May.'04 Time 14:52:58 Res.BW 1.0 MHz [3dB]
Ref.Lvl 87.00 dBuV Marker 65.29 dBuV CF.Lvl 16.Lvl 1.0 MHz [3dB] Vid.BW 10 Hz
Unit [dBuV]



Start 2.706005555 GHz Span 5 MHz Center 2.708505555 GHz Sweep 7.6 s Stop 2.711005555 GHz



Date 19.May.'04 Time 14:57:34 Res.Bw 1.0 MHz [3dB]
 Ref.Lvl 87.00 dBuV Marker 57.75 dBuV CF.Stp off Vid.Bw 1 MHz
 3.611394 GHz 902.600 MHz RF.Att Unit [dBuV]

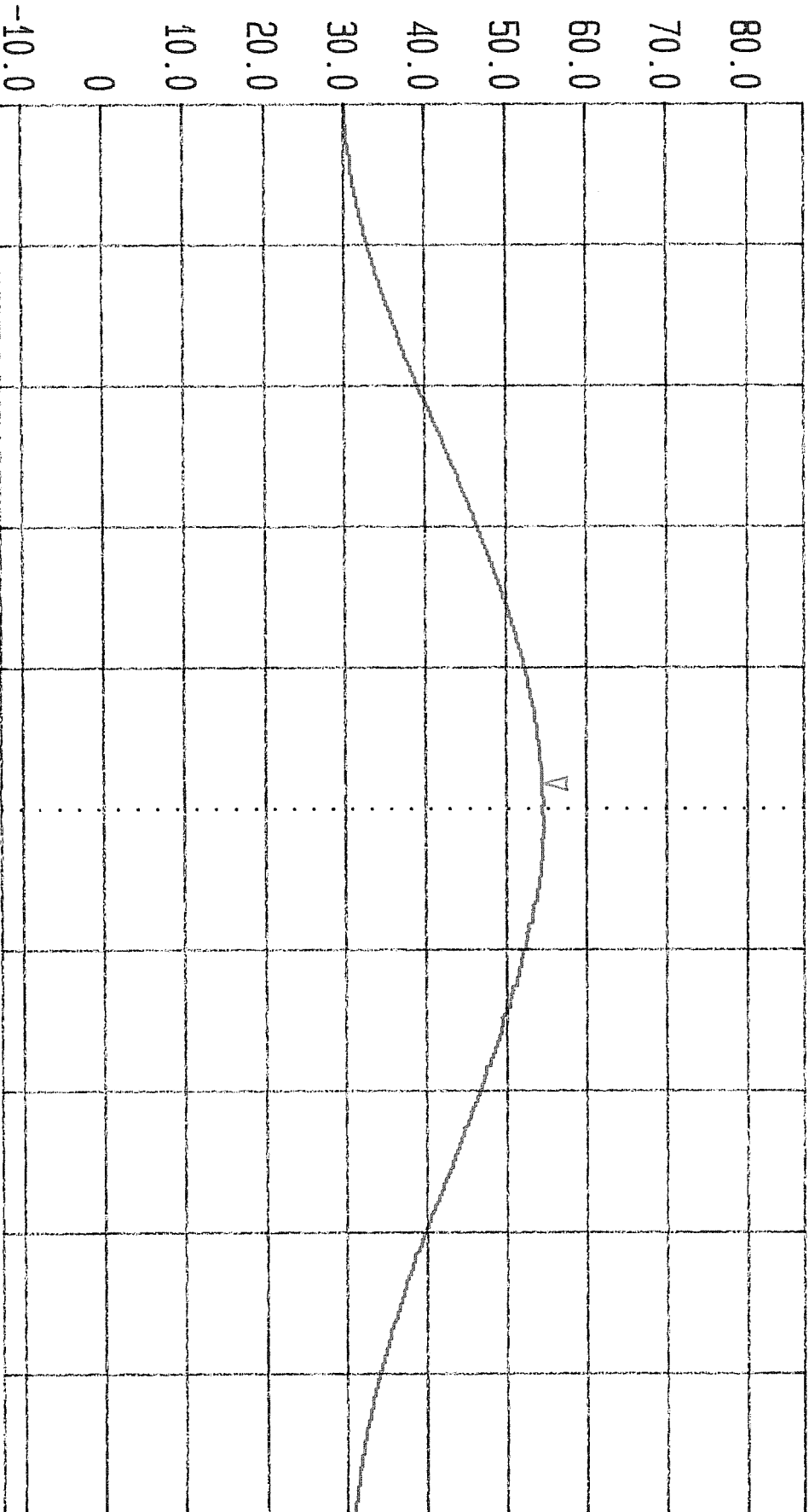


Start 3.608605555 GHz Span 5 MHz Center 3.611105555 GHz Sweep 20 ms Stop 3.613605555 GHz



Date 19.May.'04 Time 15:00:58
Ref.Lvl 87.00 dBuV
Marker 54.70 dBuV
3.611022 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 902.600 MHz
Vid.Bw 10 Hz
RF.Att Unit
[dBuV]

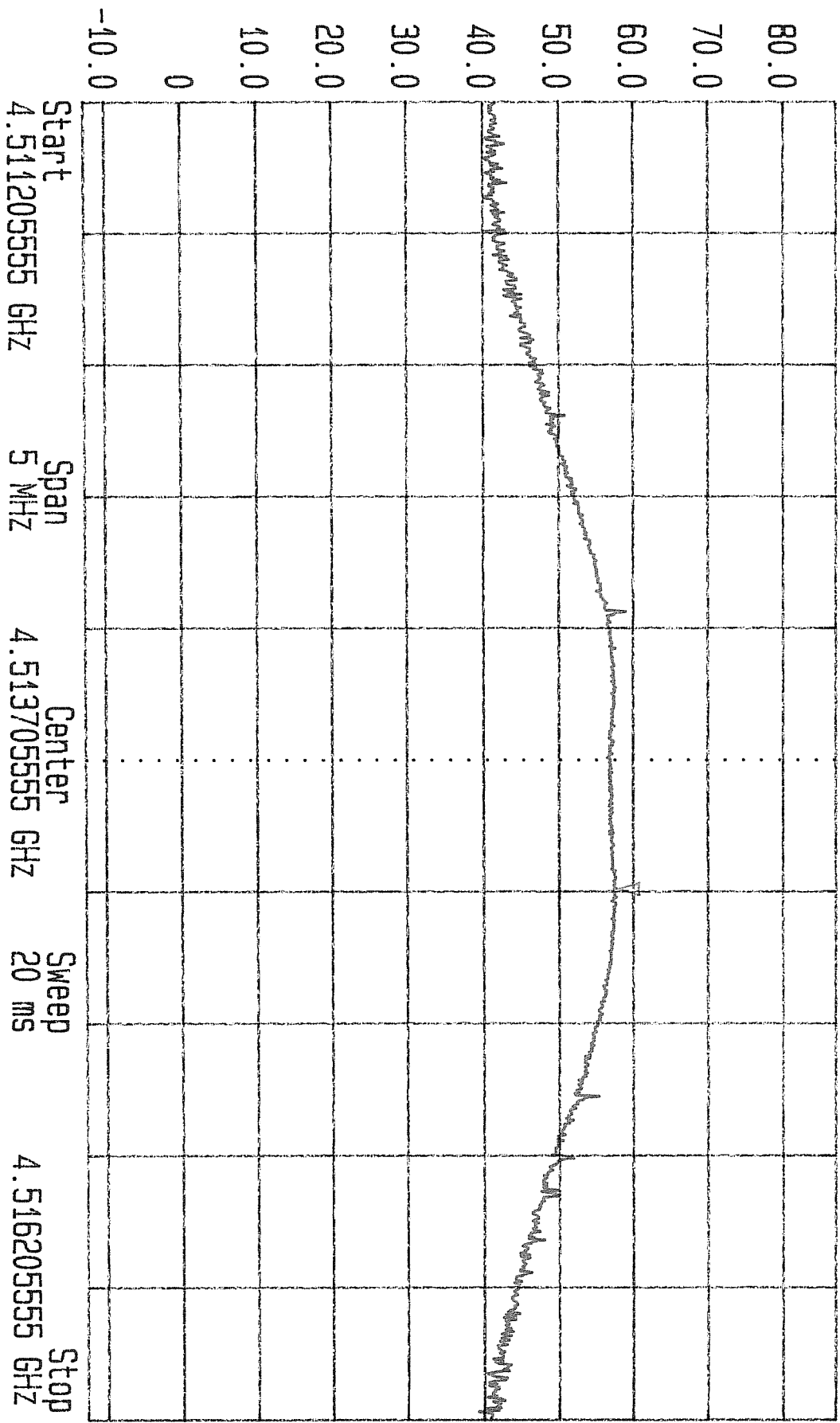


Start 3.608605555 GHz Span 5 MHz Center 3.611055555 GHz Sweep 7.6 s Stop 3.613605555 GHz



Date 19. May. '04 Time 15:06:20
Ref. Lvl 87.00 dBuV
Marker 4.514194 GHz

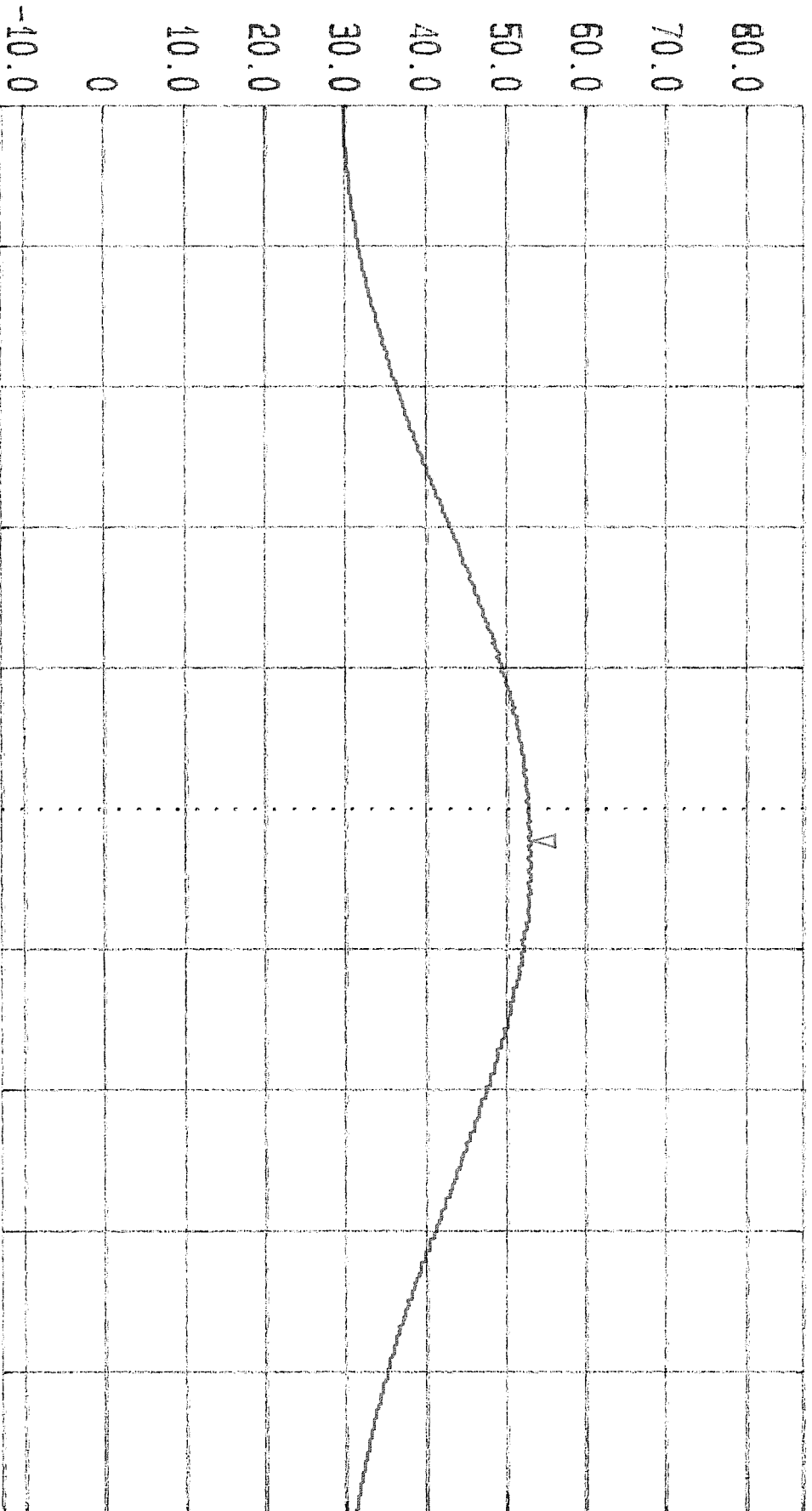
Res. Bw 1.0 MHz [3dB]
RG.Lvl 16
CF. Stp off
Vid. Bw 1 MHz
RF. Att 10 dB
Unit [dBuV]



Start 4.51205555 GHz Span 5 MHz Center 4.513705555 GHz Sweep 20 ms Stop 4.516205555 GHz



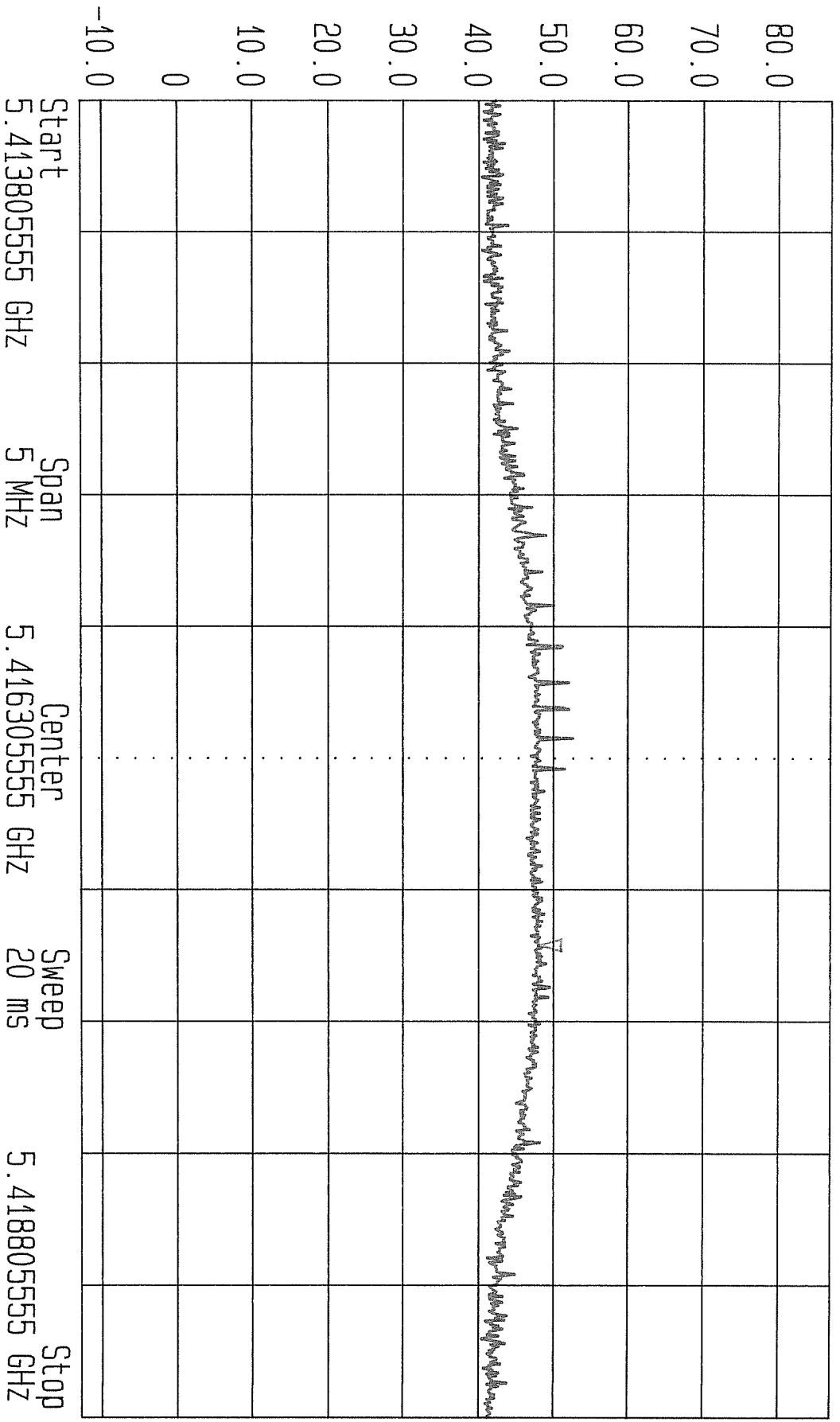
Date 19.May.'04 Time 15:15:13 Res.BW 1.0 MHz [3dB]
Ref.Lvl 87.00 dBuV Marker 53.16 dBuV CF.Stp 16.Lvl 0ff Vid.BW 10 Hz
4.513822 GHz 902.600 MHz AF.Att Unit [dBuV]



Start 4.511205555 GHz Span 5 MHz Center 4.513705555 GHz Sweep 7.6 s Stop 4.516205555 GHz

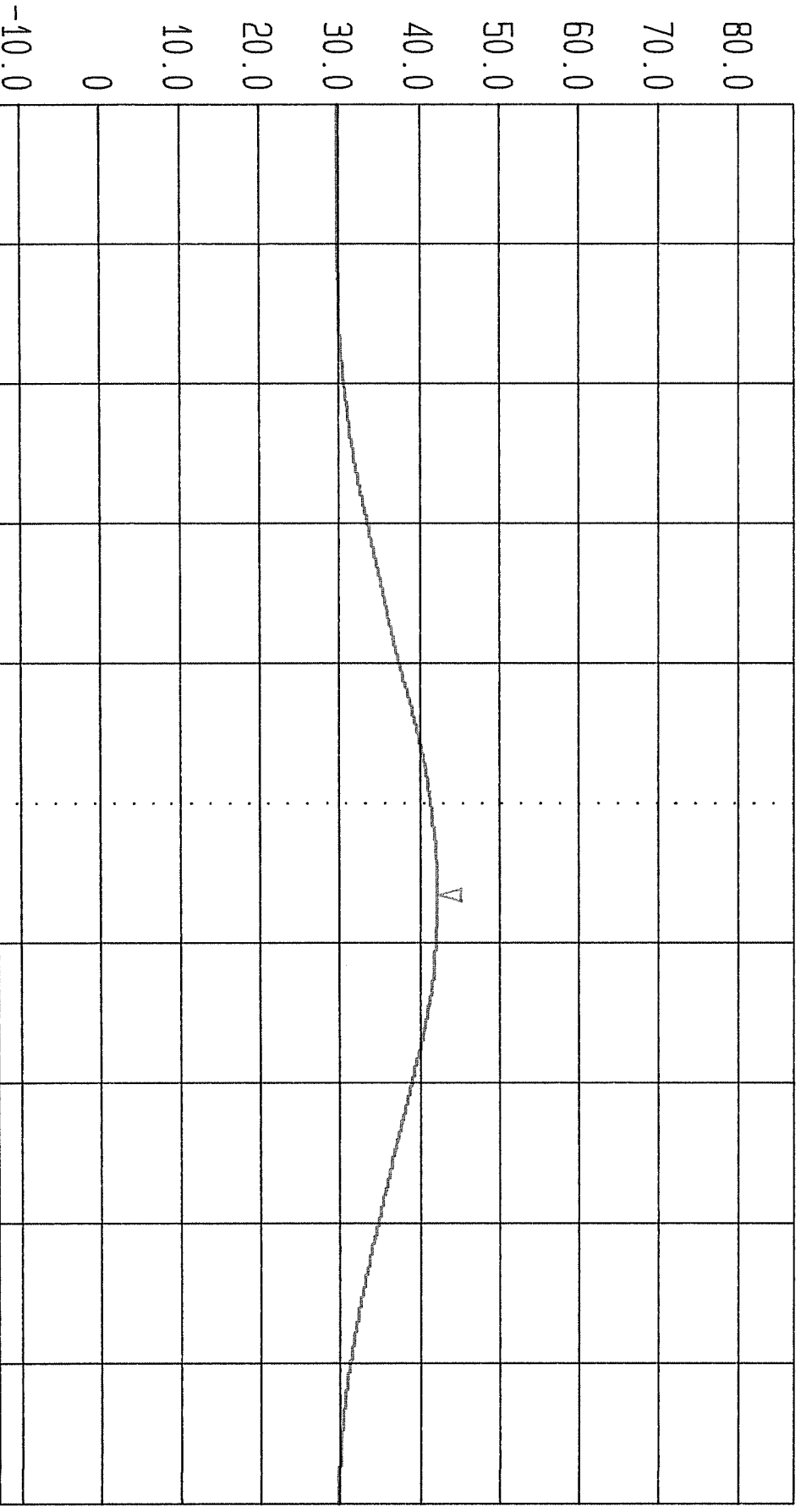


Date 19.May.'04 Time 15:23:38 Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
 Ref.Lvl 87.00 dBuV Marker 48.31 dBuV TG.Lvl off RF.Att 10 dB
 5.417022 GHz CF.Stp 902.600 MHz Unit [dBuV]





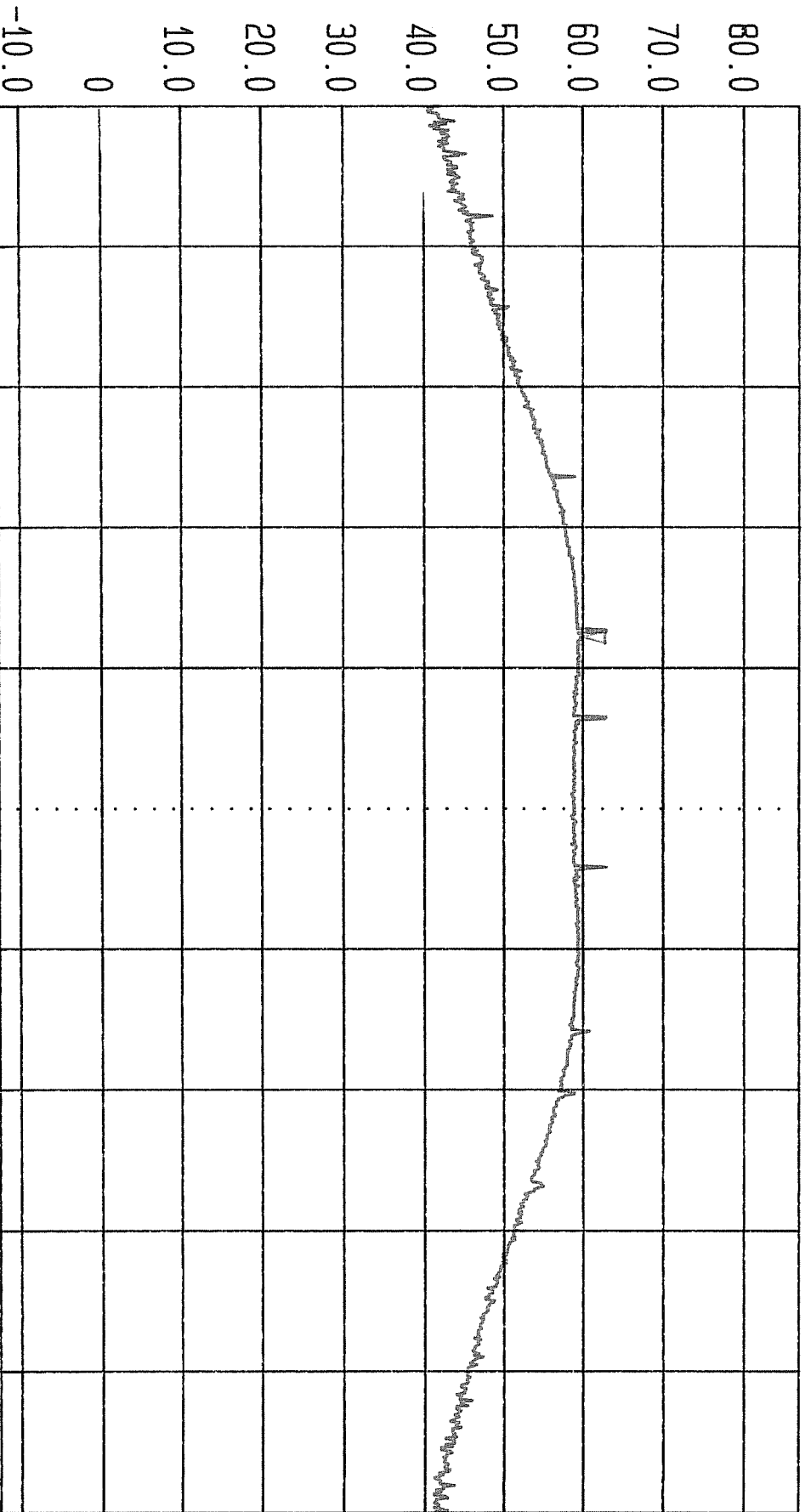
Date 19. May. '04 Time 15:27:03 Res. Bw 1.0 MHz [3dB]
Ref. Lvl 87.00 dB μ V Marker 42.31 dB μ V CF. Stp off Vid. Bw 10 Hz
5.416638 GHz 902.600 MHz RF. Att Unit [dB μ V]



Start 5.413805555 GHz Span 5 MHz Center 5.416305555 GHz Sweep 7.6 s Stop 5.418805555 GHz



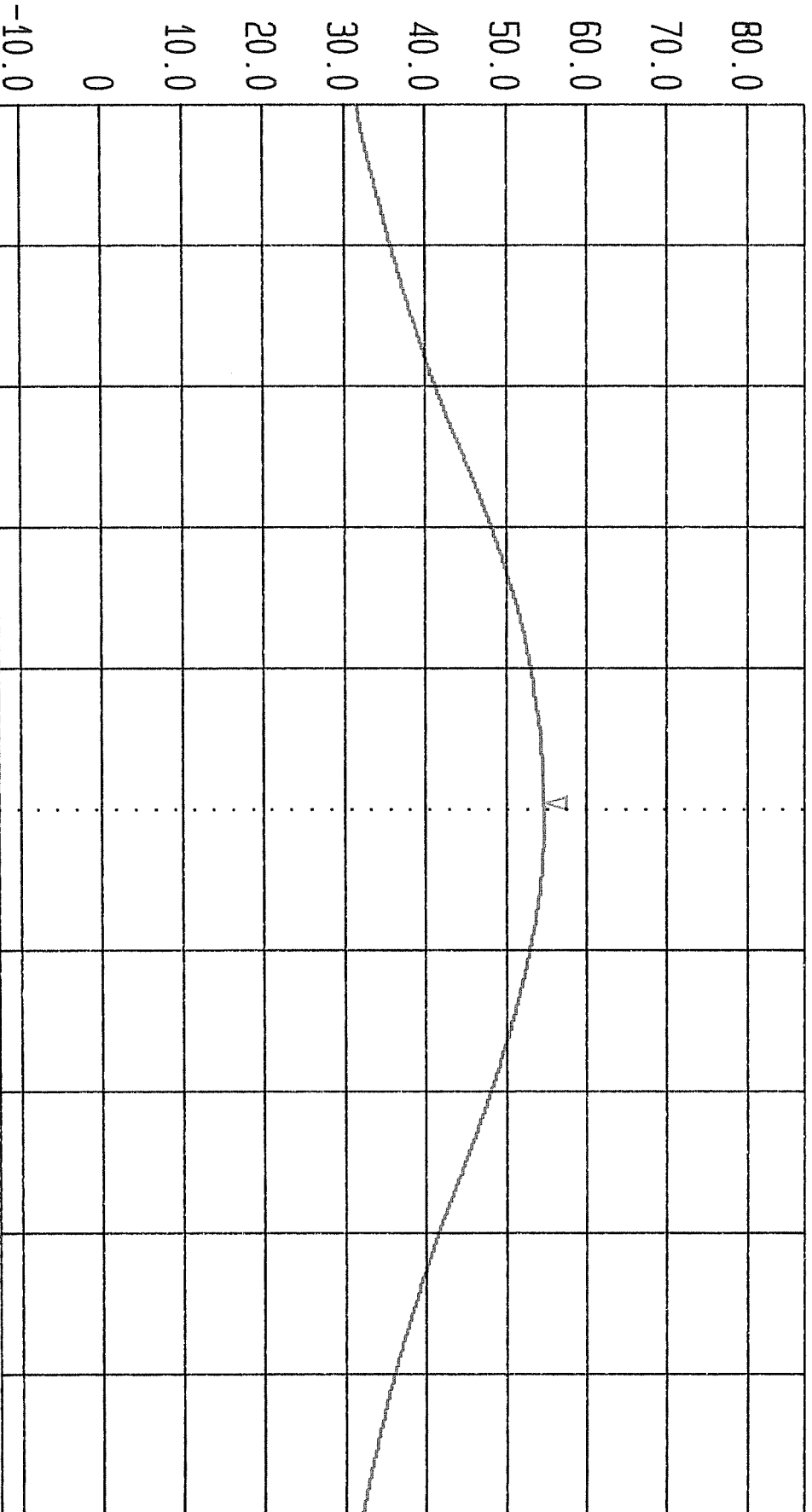
Date 19.May.'04 Time 15:47:10 Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
Ref.Lvl 87.00 dBuV Marker 59.83 dBuV TG.Lvl off RF.Att Unit [dBuV]
CF.Stp 6.318794 GHz 902.600 MHz



Start 6.316905555 GHz Span 5 MHz Center 6.319405555 GHz Sweep 20 ms Stop 6.321905555 GHz



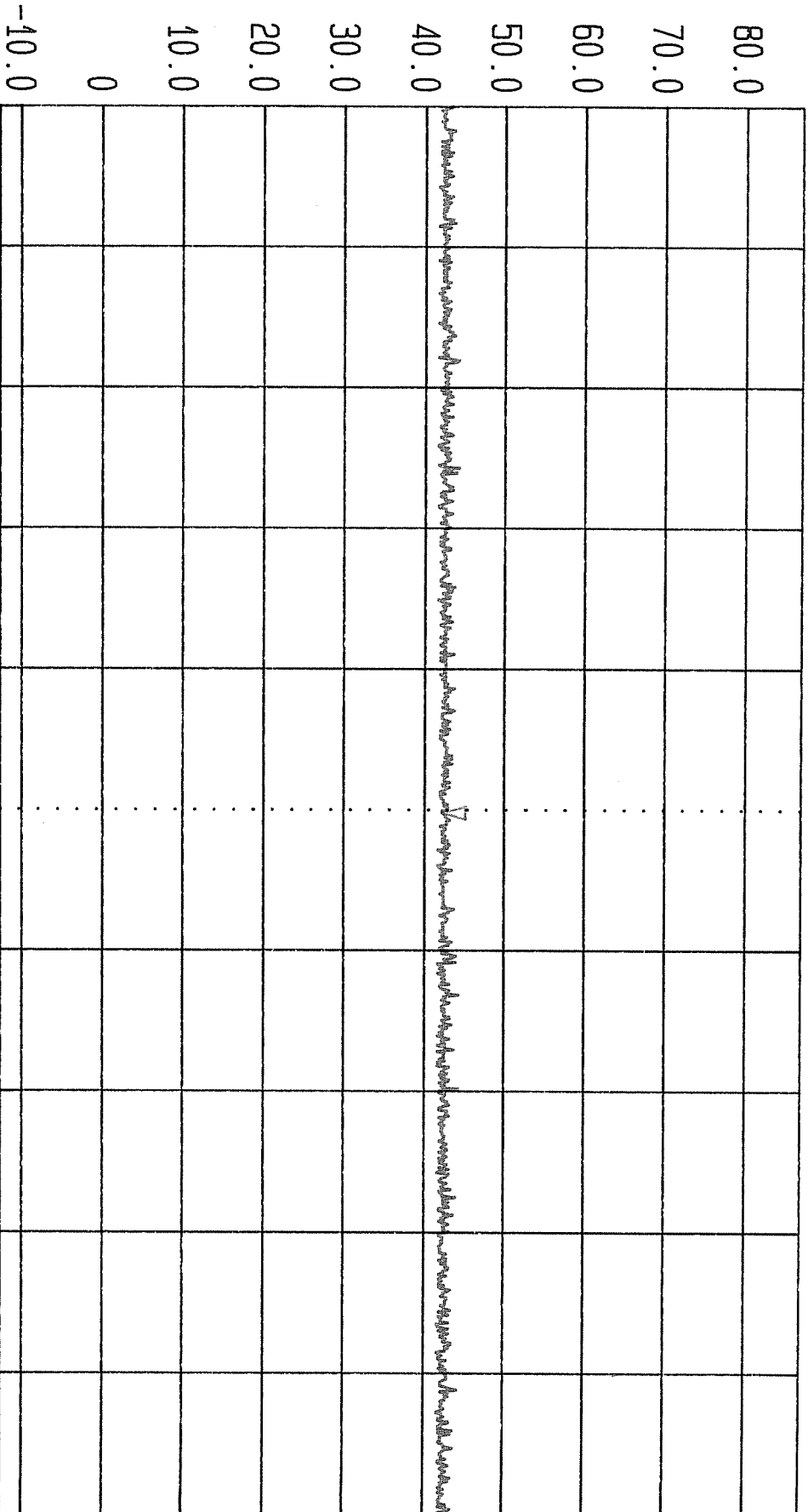
Date 19.May.'04 Time 15:50:33 Res.Bw 1.0 MHz [3dB]
 Ref.Lvl 87.00 dBuV Marker 55.01 dBuV CF.Stp 902.600 MHz off Vid.Bw 10 Hz
 6.319388 GHz RF.Att Unit [dBuV]



Start 6.316905555 GHz Span 5 MHz Center 6.319405555 GHz Sweep 7.6 s Stop 6.321905555 GHz



Date 19. May. '04 Time 15:42:14 Res. Bw 1.0 MHz [3dB] Vid. Bw 1 MHz
 Ref. Lvl 87.00 dB μ V Marker 42.44 dB μ V CF. Str off RF. Att 10 dB
 8.124116 GHz 902.600 MHz Unit [dB μ V]



Start 8.121605555 GHz Span 5 MHz Center 8.124105555 GHz Sweep 20 ms Stop 8.126605555 GHz

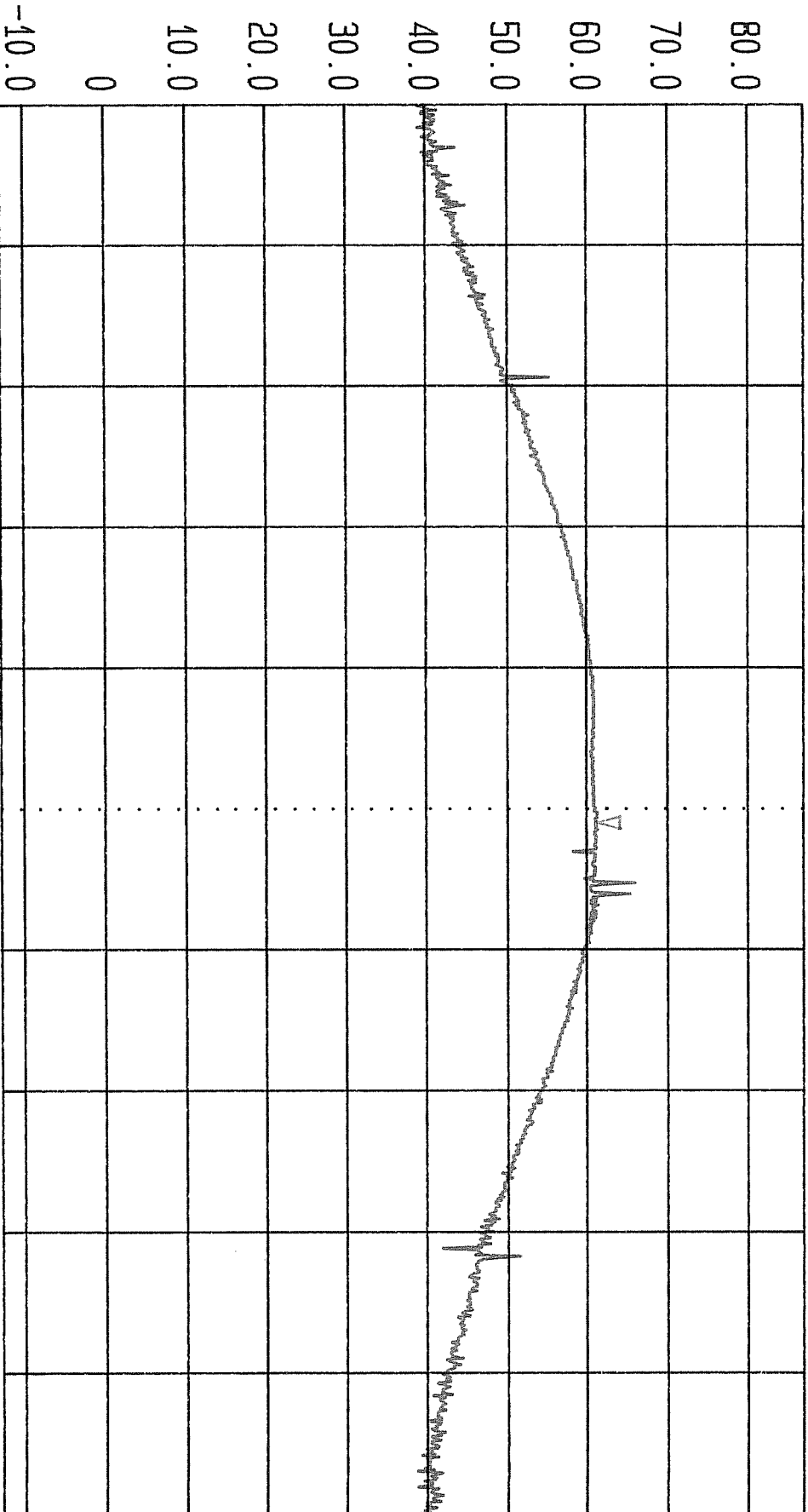


Middle Channel



Date 19. May. '04 Time 16:18:21
 Ref. Lvl 87.00 dBuV Marker 61.31 dBuV
 2.743048 GHz

Res. Bw 1.0 MHz [3dB]
 TG.Lvl off
 CF.Str 914.330 MHz
 Vid. Bw 1 MHz
 RF. Att Unit [dBuV]

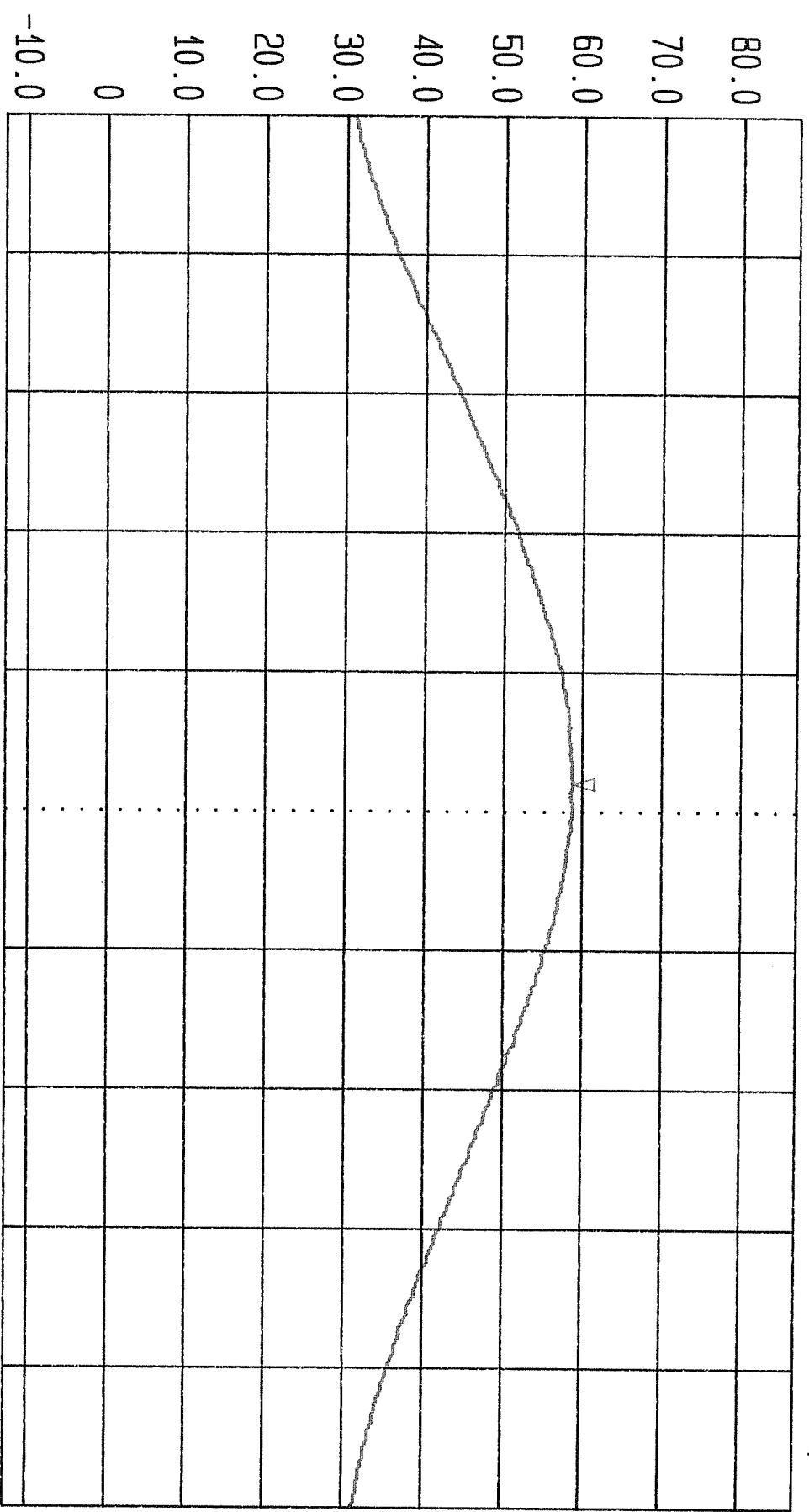


Start 2.740493333 GHz Span 5 MHz Center 2.742993333 GHz Sweep 20 ms Stop 2.745493333 GHz



Date 19.May.'04 Time 16:21:37
 Ref.Lvl 87.00 dBμV Marker 58.79 dBμV
 2.742893 GHz

Res.Bw 1.0 MHz [3dB]
 TG.Lvl off
 CF.Stp 914.330 MHz
 Vid.Bw 10 Hz
 RF.Att Unit
 10 dB [dBμV]



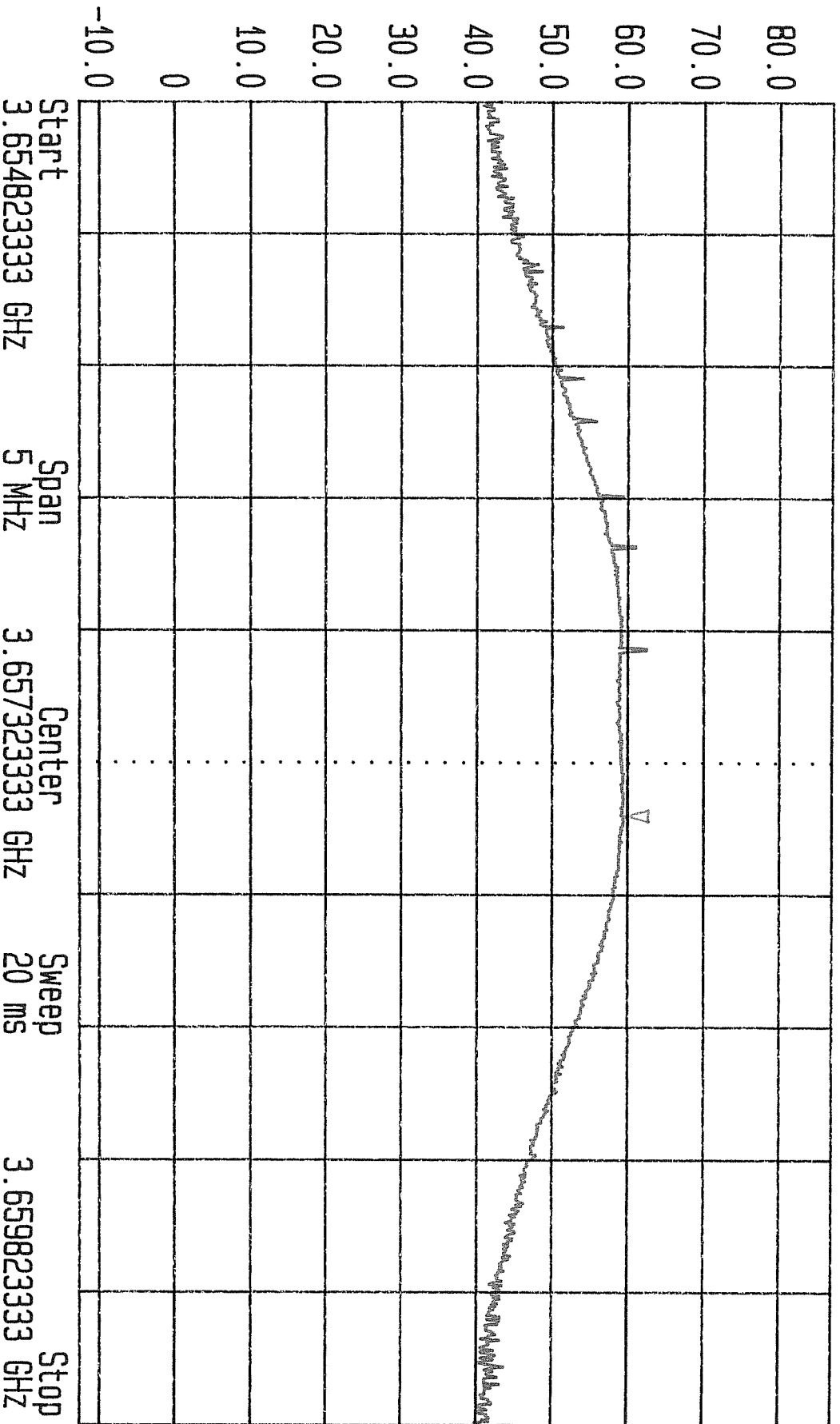
Start 2.740493333 GHz Span 5 MHz Center 2.742993333 GHz Sweep 7.6 s Stop 2.745493333 GHz



Date 19. May. '04 Time 16:54:57
Ref. Lvl 87.00 dB μ V Marker 3.657528 GHz

Res. Bw 1.0 MHz [3dB]
TG. Lvl 16
CF. Stp off

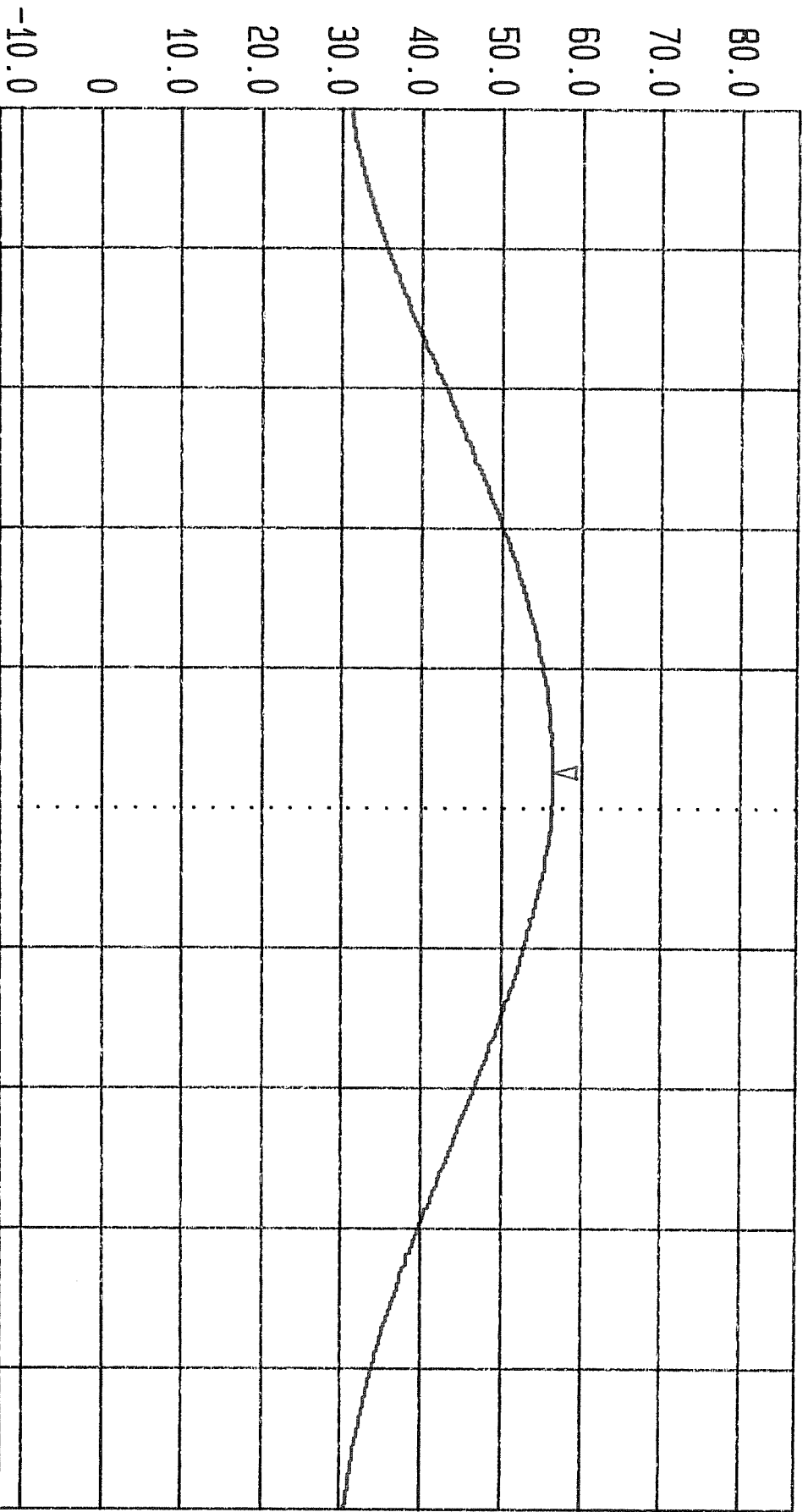
Vid. Bw 1 MHz
RF. Att 10 dB
Unit [dB μ V]





Date 19.May.'04 Time 16:58:56
Ref.Lvl 87.00 dB μ V Marker 56.69 dB μ V
3.657201 GHz

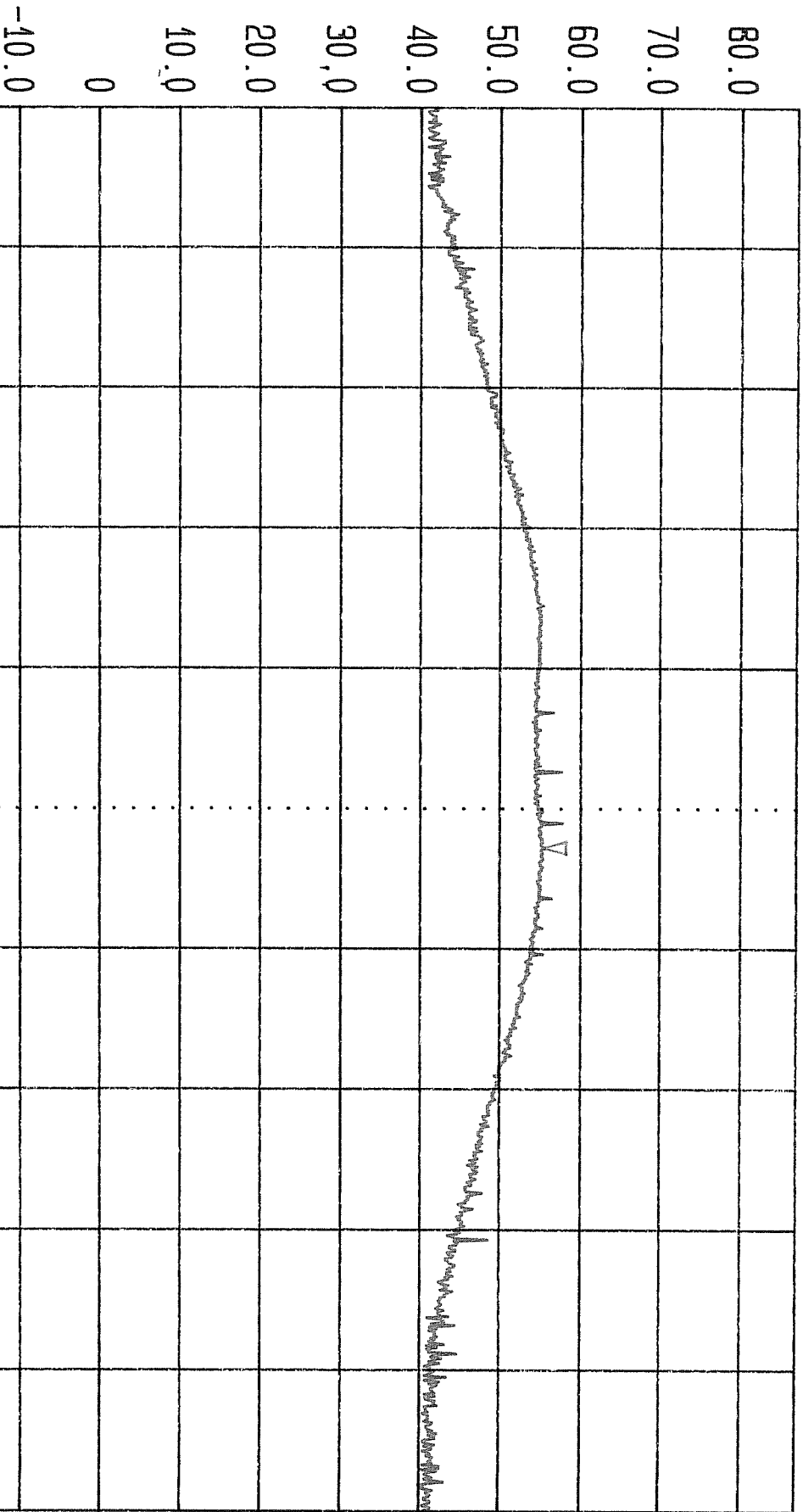
Res.BW 1.0 MHz [3dB]
TG.Lvl off
CF.Stp 914.330 MHz
Vid.BW 10 Hz
RF.Att Unit
10 dB [dB μ V]



Start 3.654823333 GHz Span 5 MHz Center 3.657323333 GHz Sweep 7.6 s Stop 3.659823333 GHz



Date 19. May. '04 Time 16:33:08 Res. Bw 1.0 MHz [3dB]
Ref. Lvl 87.00 dB μ V Marker 55.36 dB μ V CF. Stp 16 MHz off Vid. Bw 1 MHz
Unit [dB μ V]



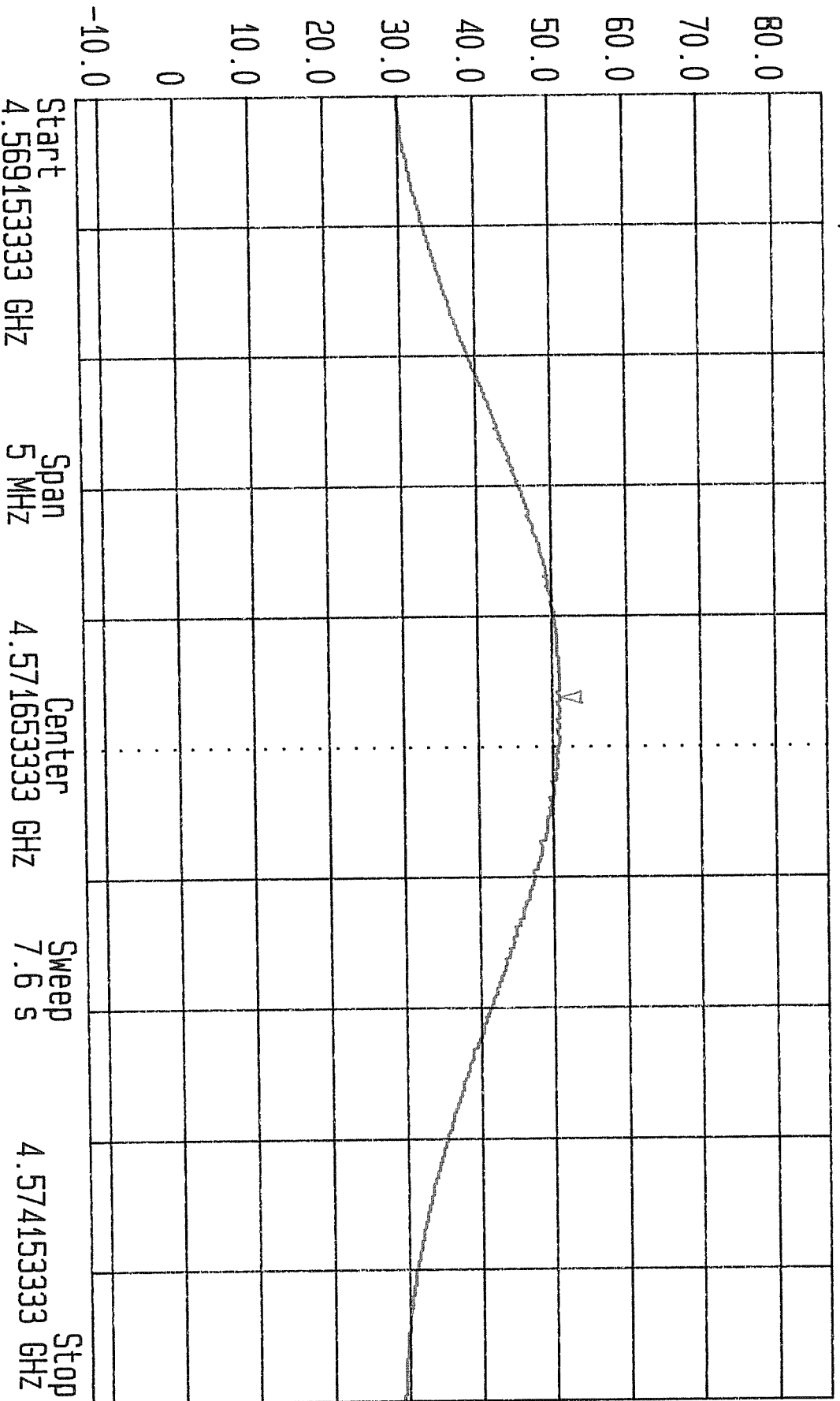
Start 4.569153333 GHz Span 5 MHz Center 4.571653333 GHz Sweep 20 ms Stop 4.574153333 GHz



Date 19.May.'04 Time 16:36:19
 Ref.Lvl 87.00 dBuV Marker 51.33 dBuV
 4.571469 GHz

Res.Bw 1.0 MHz [3dB]
 TG.Lvl off
 CF.Strp 914.330 MHz

Vid.Bw 10 Hz
 RF:Att Unit [dBuV]



Start 4.569153333 GHz

Span 5 MHz

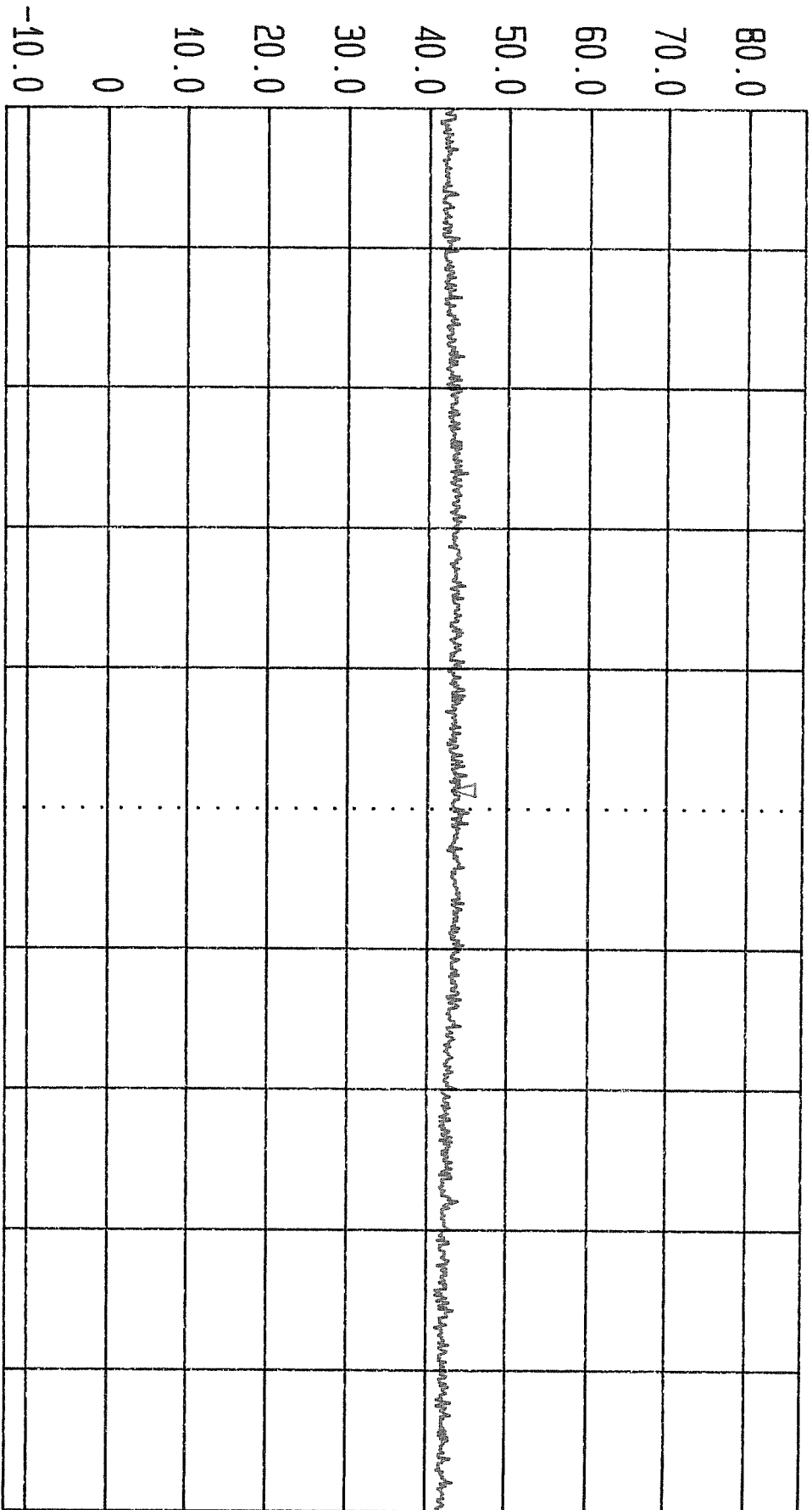
Center 4.571653333 GHz

Sweep 7.6 s

Stop 4.574153333 GHz

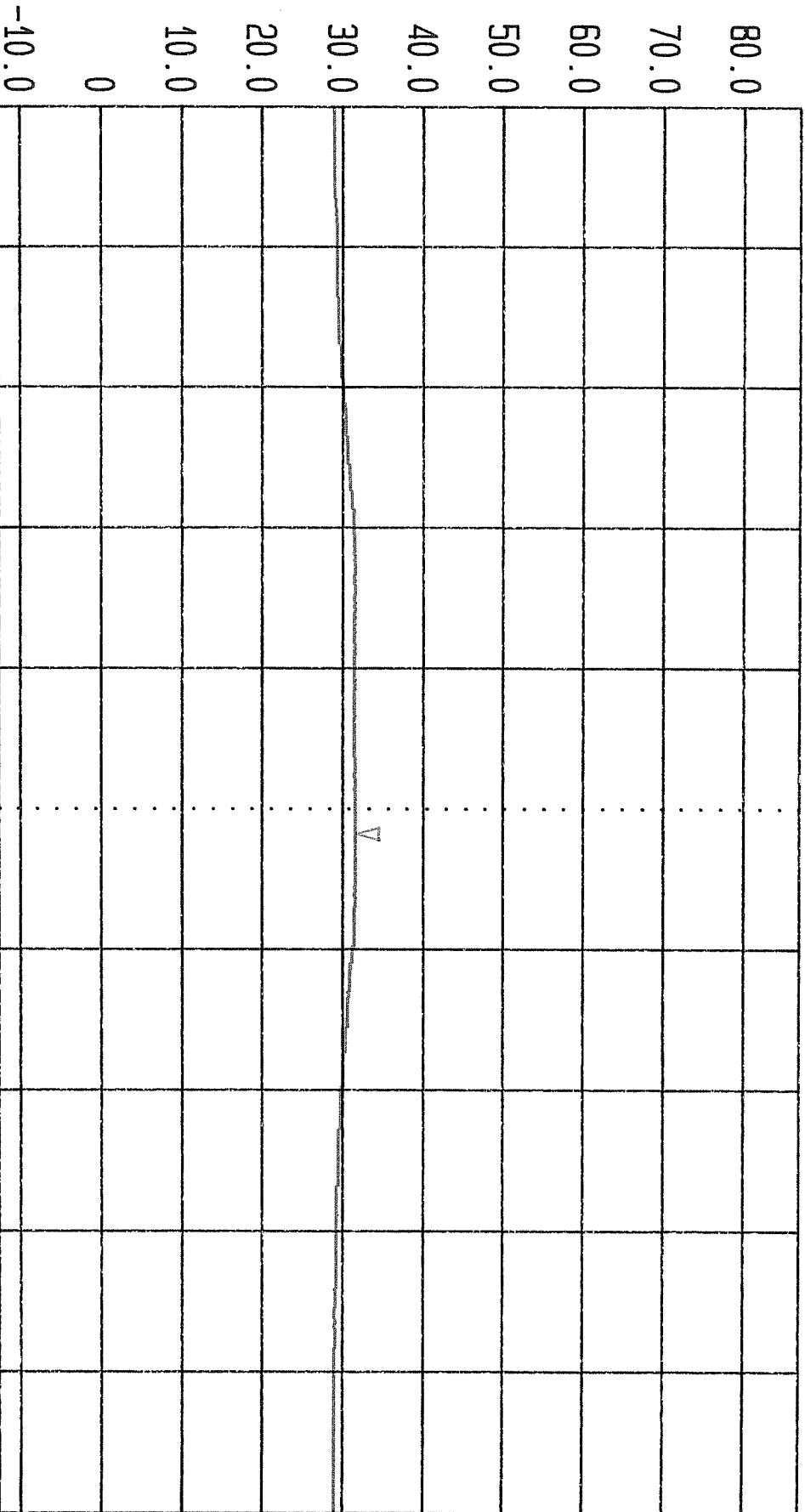


Date 19. May. '04 Time 16:40:39 Res. Bw 1.0 MHz [3dB]
 Ref. Lvl 87.00 dBµV Marker 43.15 dBµV TG. Lvl 1 MHz
 7.314582 GHz CF. Str 914.330 MHz off
 RF. Att 10 dB
 Unit [dBµV] Vid. Bw 1 MHz





Date 19. May. '04 Time 15:44:02 Res. Bw 1.0 MHz [3dB]
 Ref. Lvl 87.00 dBµV Marker 31.90 dBµV CF. Lvl 16. Lvl 10 Hz
 7.314737 GHz Vid. Bw 10 dB
 914.330 MHz off [dBµV]

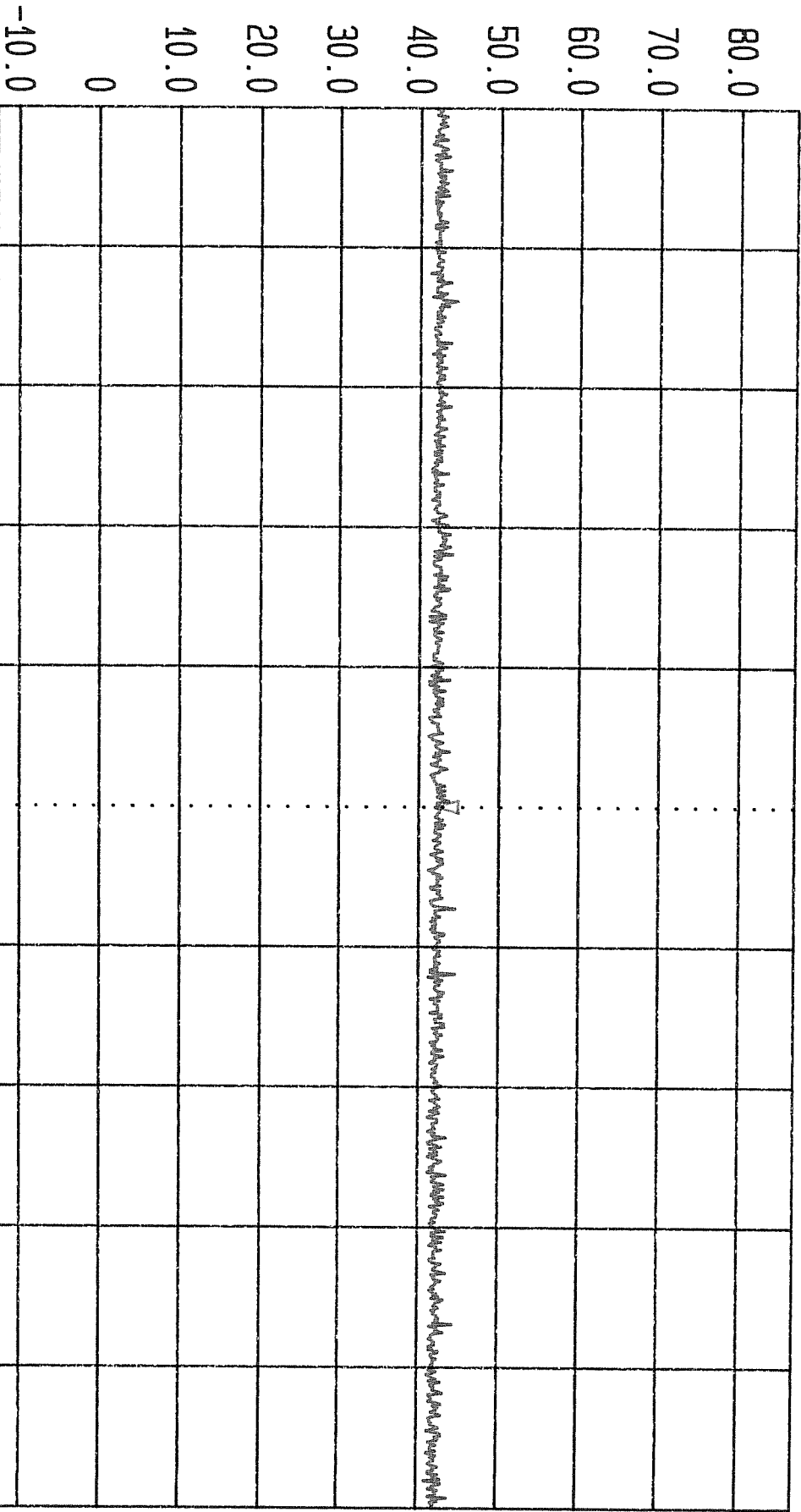


Start 7.312143333 GHz Span 5 MHz Center 7.314643333 GHz Sweep 7.6 s Stop 7.317143333 GHz



Date 19. May. '04 Time 16:47:14
 Ref. Lvl 87.00 dBuV Marker 42.01 dBuV
 8.228978 GHz

Res. BW 1.0 MHz [3dB]
 TG. Lvl off
 CF. Stp 914.330 MHz
 Vid. BW 1 MHz
 RF. Att 10 dB
 Unit [dBuV]



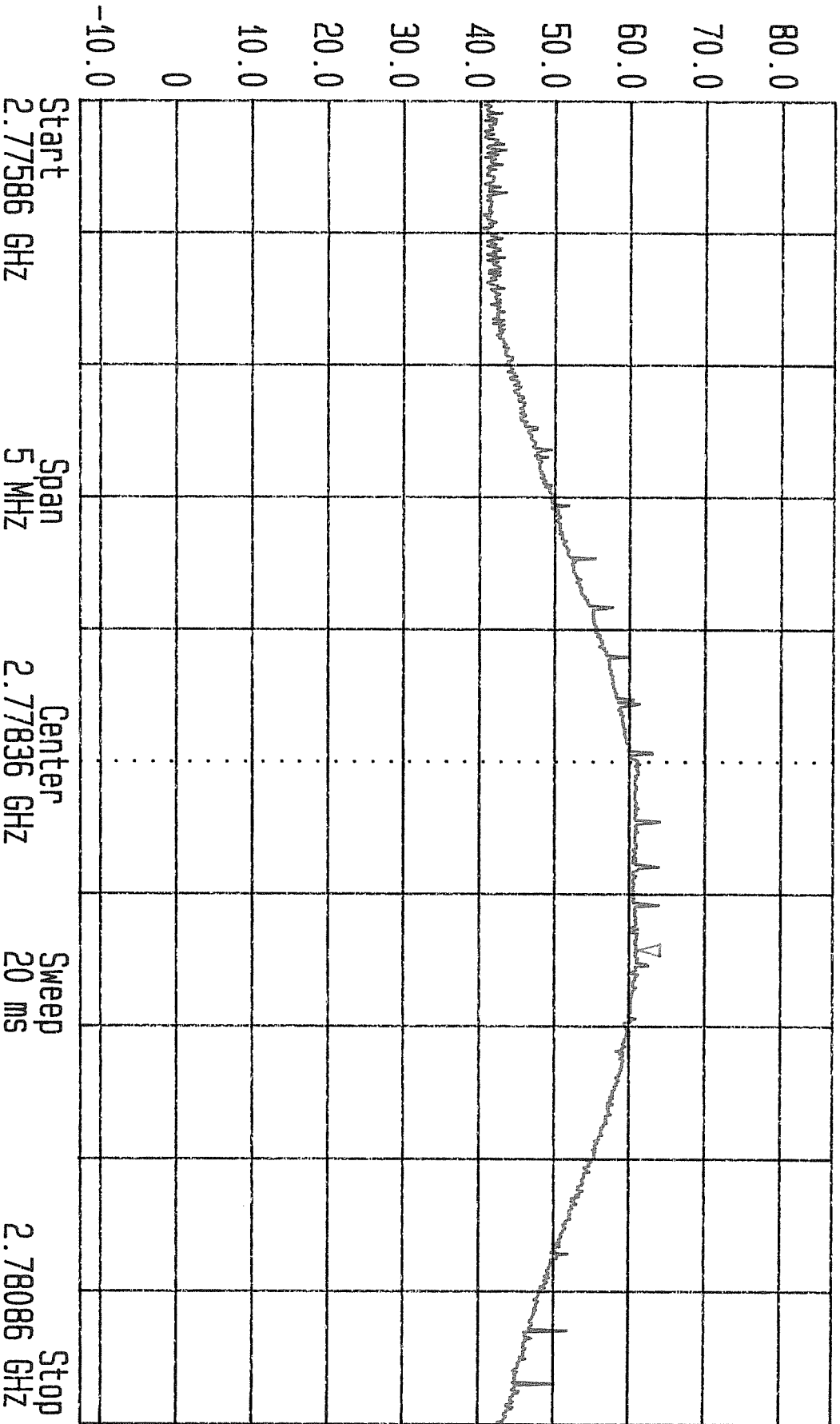
Start 8.226473333 GHz Span 5 MHz Center 8.228973333 GHz Sweep 20 ms Stop 8.231473333 GHz



High Channel

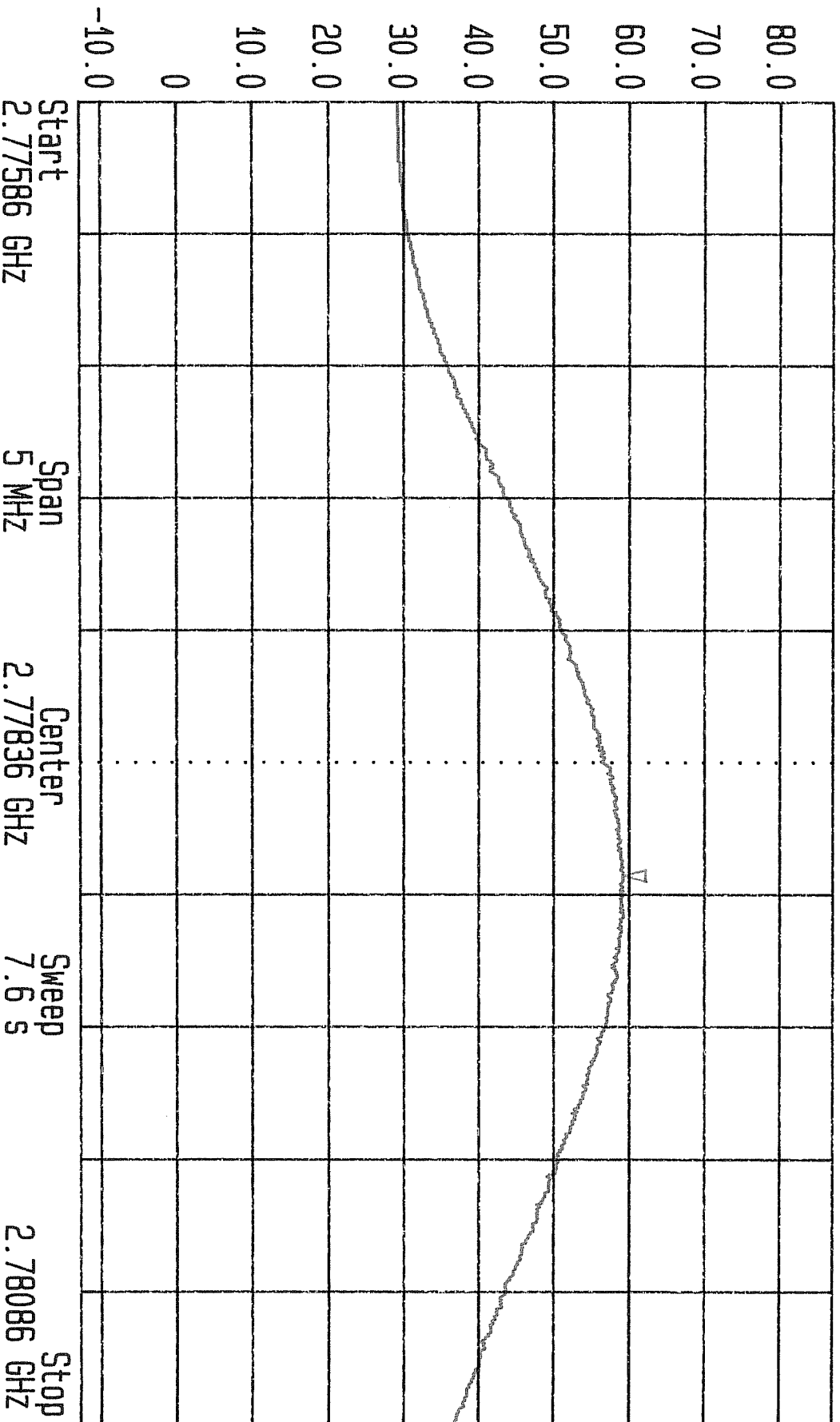


Date 19.May.'04 Time 17:10:22 Res.BW 1.0 MHz [3dB]
Ref.Lvl 87.00 dBuV Marker 61.26 dBuV TG.Lvl off Vid.BW 1 MHz
CF.Str 2.779076 GHz 926.180 MHz RF:Att 10 dB
Unit [dBuV]



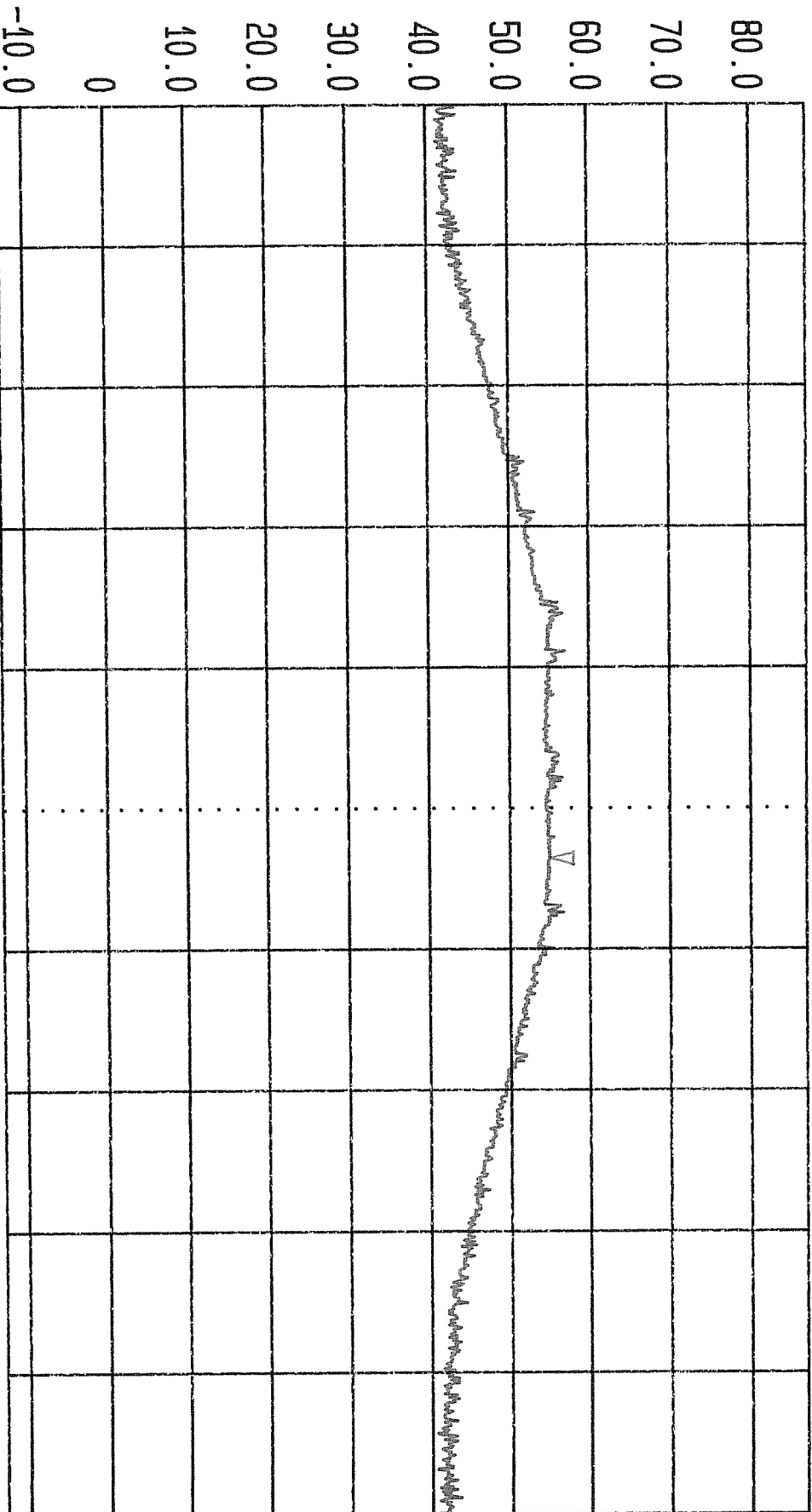


Date 19. May. '04 Time 17:13:27 Res. Bw 1.0 MHz [3dB]
Ref. Lvl 87.00 dBμV Marker 59.28 dBμV CF. Lvl 16. Lvl 1
CF. Strp 926.180 MHz off Vid. Bw 10 Hz
Unit [dBμV]





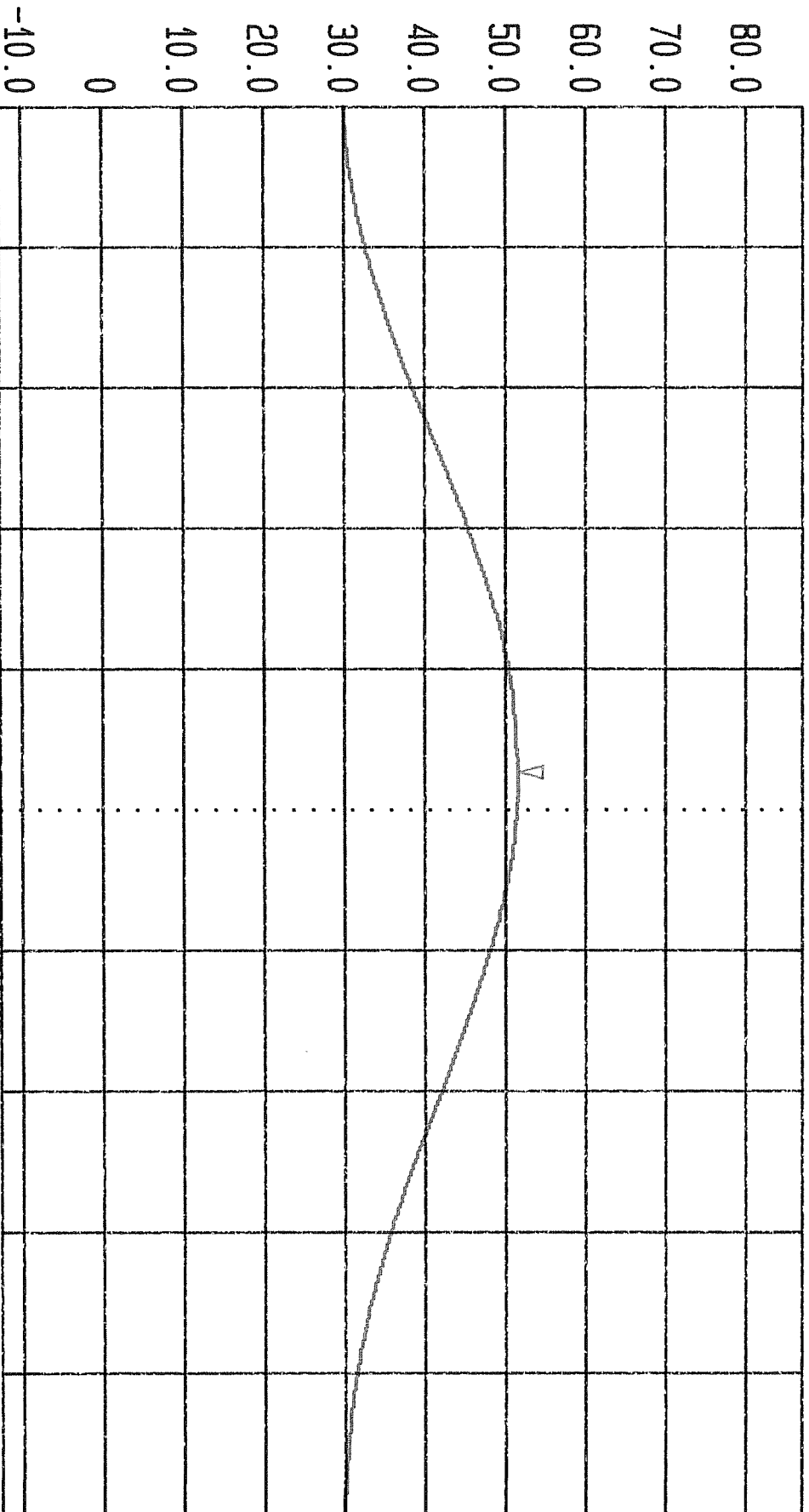
Date 19. May. '04 Time 17:17:39 Res. Bw 1.0 MHz [3dB] Vid. Bw 1 MHz
 Ref. Lvl 87.00 dB μ V Marker 55.11 dB μ V CF. Stp TG. Lvl 1.0 MHz off RF. Att 10 dB
 3.705428 GHz 926.180 MHz Unit [dB μ V]



Start 3.702751111 GHz Span 5 MHz Center 3.705251111 GHz Sweep 20 ms Stop 3.707751111 GHz



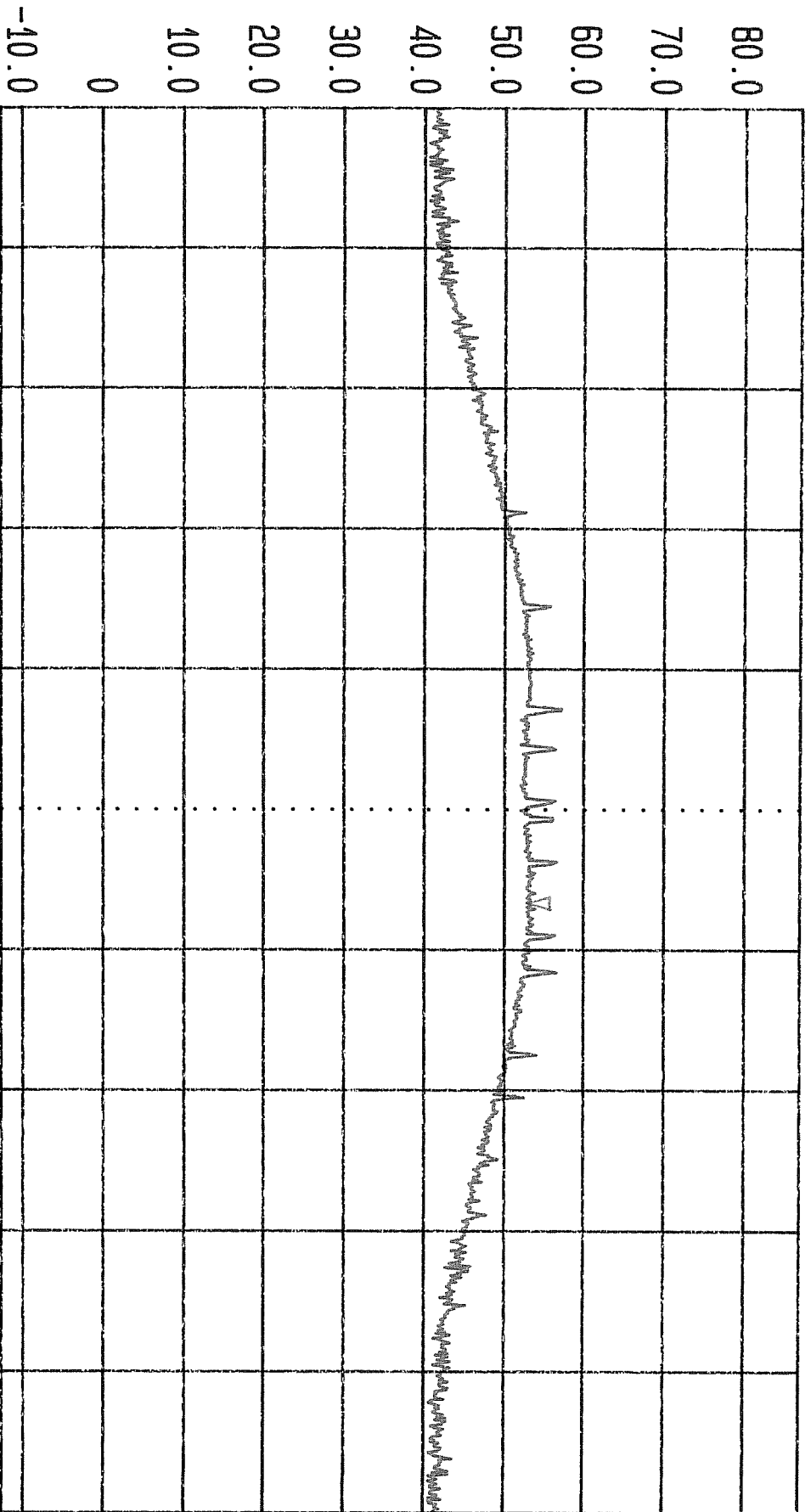
Date 19.May.'04 Time 17:20:44 Res.Bw 1.0 MHz [3dB] Vid.Bw 10 Hz
 Ref.Lvl 87.00 dBuV Marker 51.78 dBuV CF.Strp off RF.Att Unit [dBuV]
 3.705123 GHz 926.180 MHz



Start 3.702751111 GHz Span 5 MHz Center 3.705251111 GHz Sweep 7.6 s Stop 3.707751111 GHz



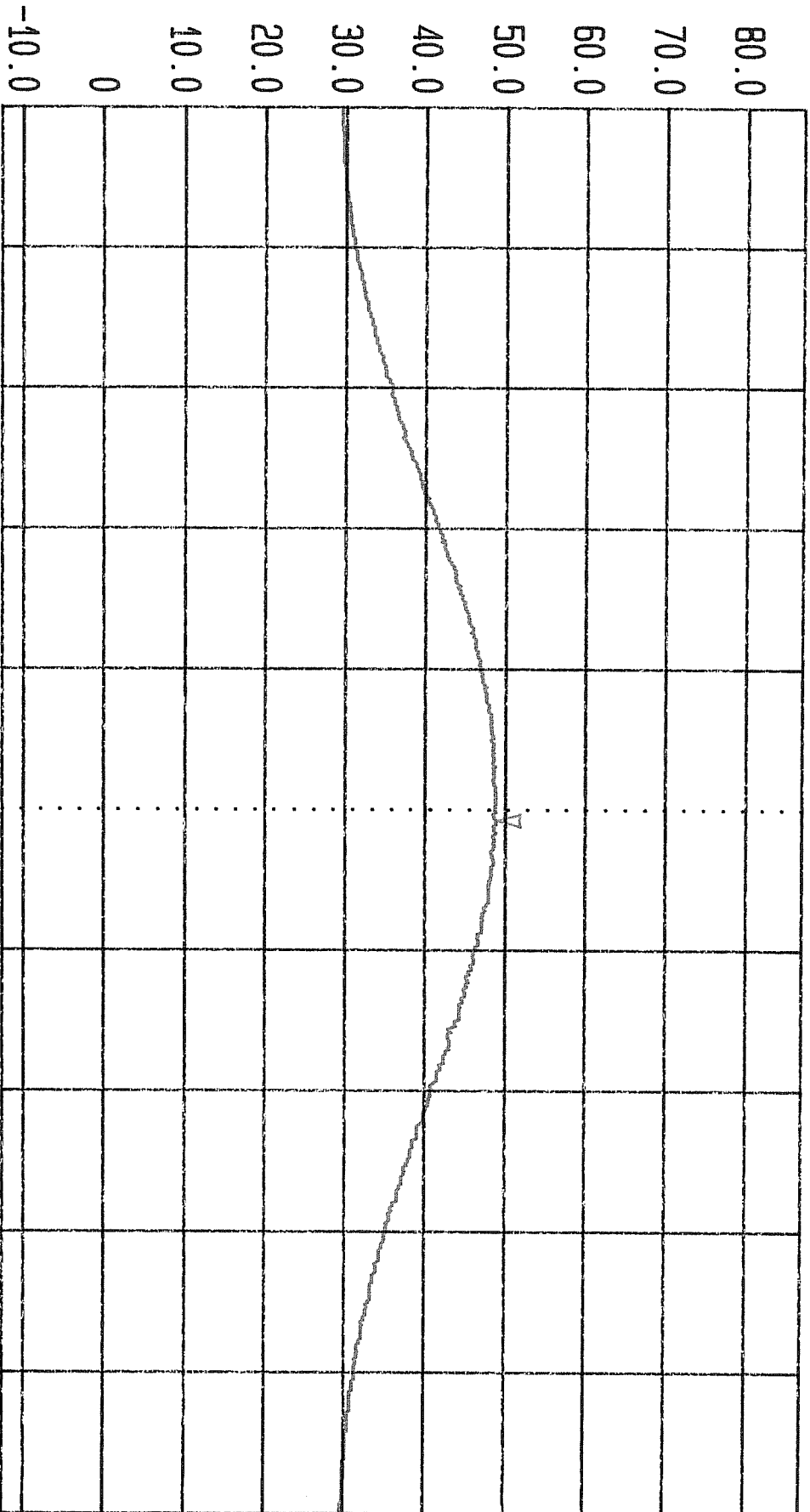
Date 19.May.'04 Time 17:25:34 Res.Bw 1.0 MHz [3dB]
 Ref.Lvl 87.00 dBuV Marker 53.03 dBuV CF.Str TG.Lvl 1
 4.631764 GHz 926.180 MHz off Vid.Bw 1 MHz
 RF Att 10 dB
 Unit [dBuV]



Start 4.628931111 GHz Span 5 MHz Center 4.631431111 GHz Sweep 20 ms Stop 4.633931111 GHz



Date 19.May.'04 Time 17:29:23 Res.Bw 1.0 MHz [3dB]
Ref.Lvl 87.00 dB μ V Marker 48.97 dB μ V TG.Lvl off Vid.Bw 10 Hz
4.631475 GHz CF.Stp 926.180 MHz RF:Att Unit [dB μ V]

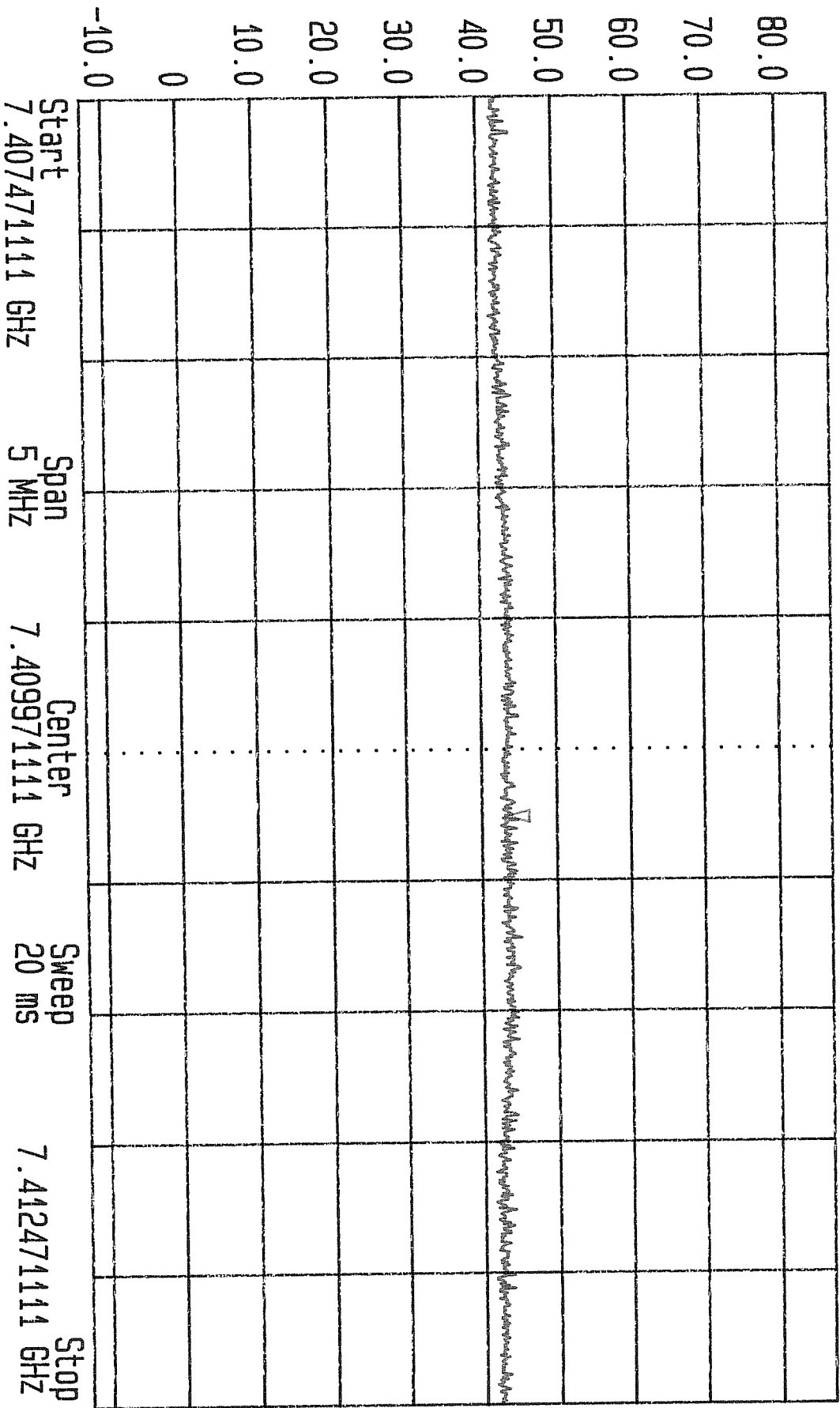


Start 4.628931111 GHz Span 5 MHz Center 4.631431111 GHz Sweep 7.6 s Stop 4.633931111 GHz



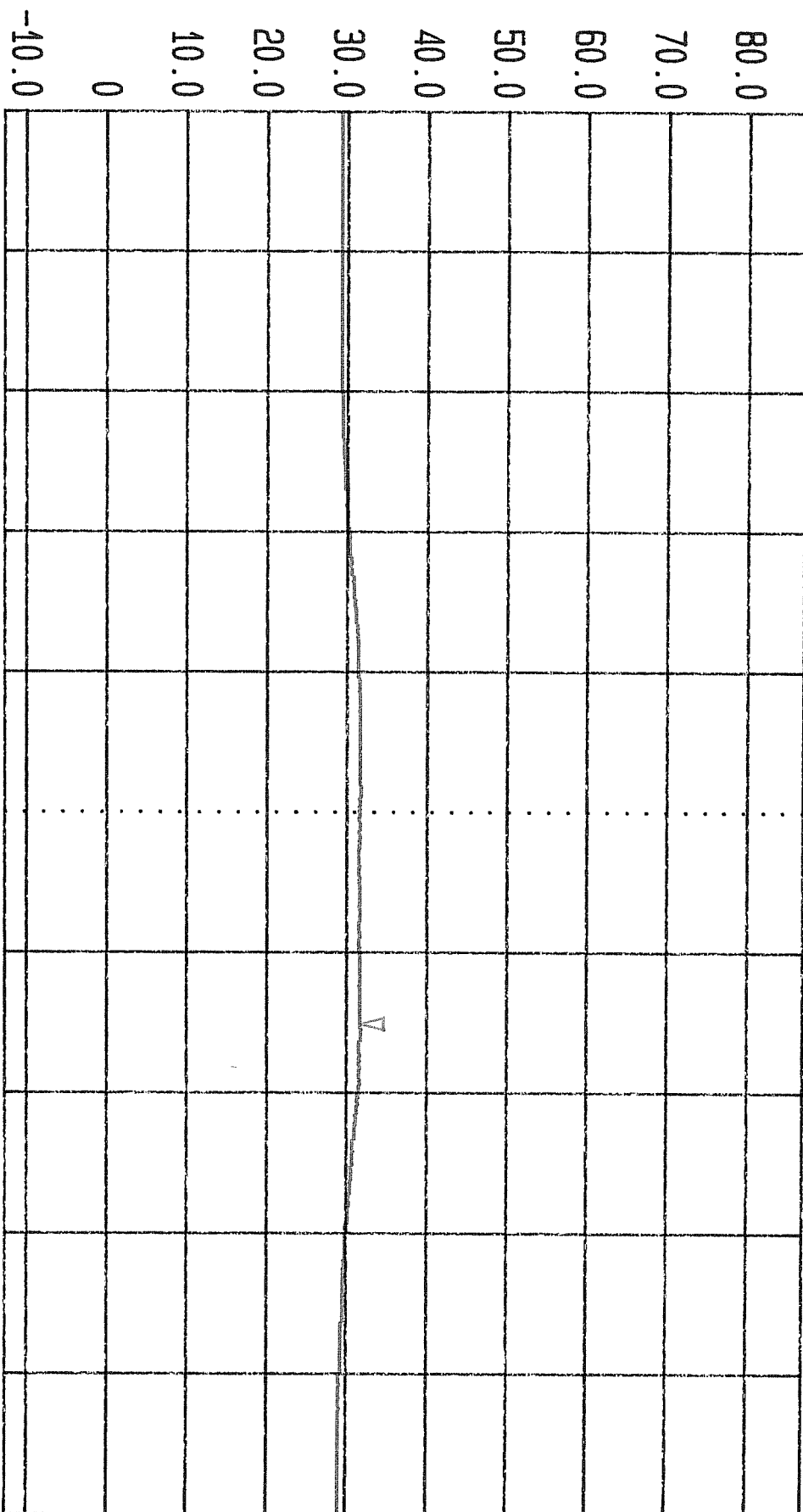
Date 19. May. '04 Time 17:33:55
 Ref. Lvl 87.00 dBµV Marker 43.45 dBµV
 7.410232 GHz

Res. BW 1.0 MHz [3dB]
 TG. Lvl 16.1
 CF. Stp
 926.180 MHz
 Vid. BW 1 MHz
 RF. Att 10 dB
 Unit [dBµV]





Date 19. May. '04 Time 17:37:18 Res. Bw 1.0 MHz [3dB]
Ref. Lvl 87.00 dBuV Marker 31.77 dBuV TG. Lvl off Vid. Bw 10 Hz
7.410732 GHz CF. Stp 926.180 MHz RF: Att Unit [dBuV]

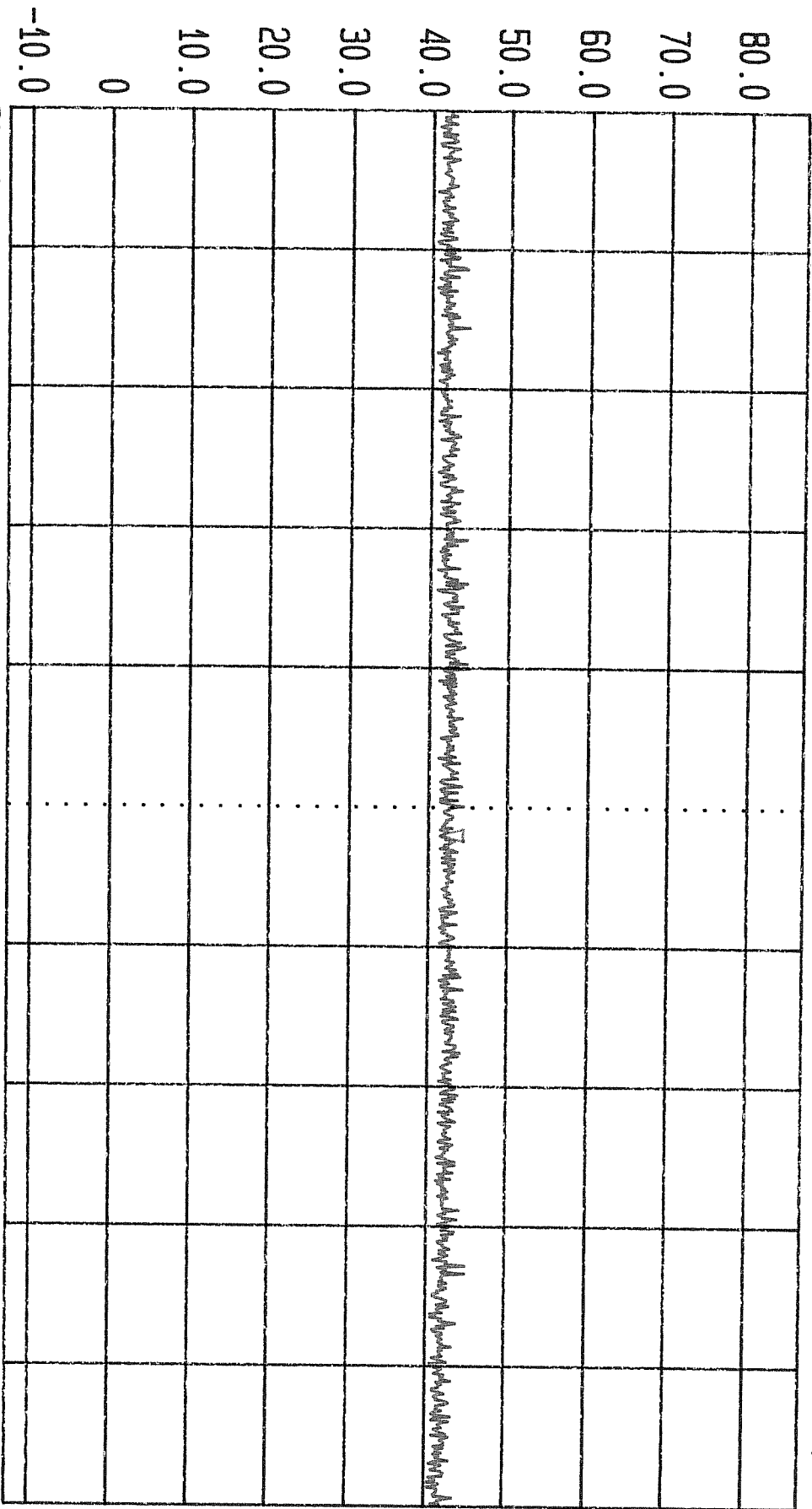


Start 7.407471111 GHz Span 5 MHz Center 7.409971111 GHz Sweep 7.6 s Stop 7.412471111 GHz



Date 19. May. '04 Time 17:42:04
 Ref. Lvl 87.00 dBuV Marker 41.70 dBuV
 8.336256 GHz

Res. Bw 1.0 MHz [3dB]
 TG. Lvl off
 CF. Str 926.180 MHz
 Vid. Bw 1 MHz
 RF: Att 10 dB
 Unit [dBuV]



Start 8.333651111 GHz Span 5 MHz Center 8.336151111 GHz Sweep 20 ms Stop 8.338651111 GHz