

# ELITE ELECTRONIC ENGINEERING CO

MKR 1.859 GHz  
-11.10 dBm

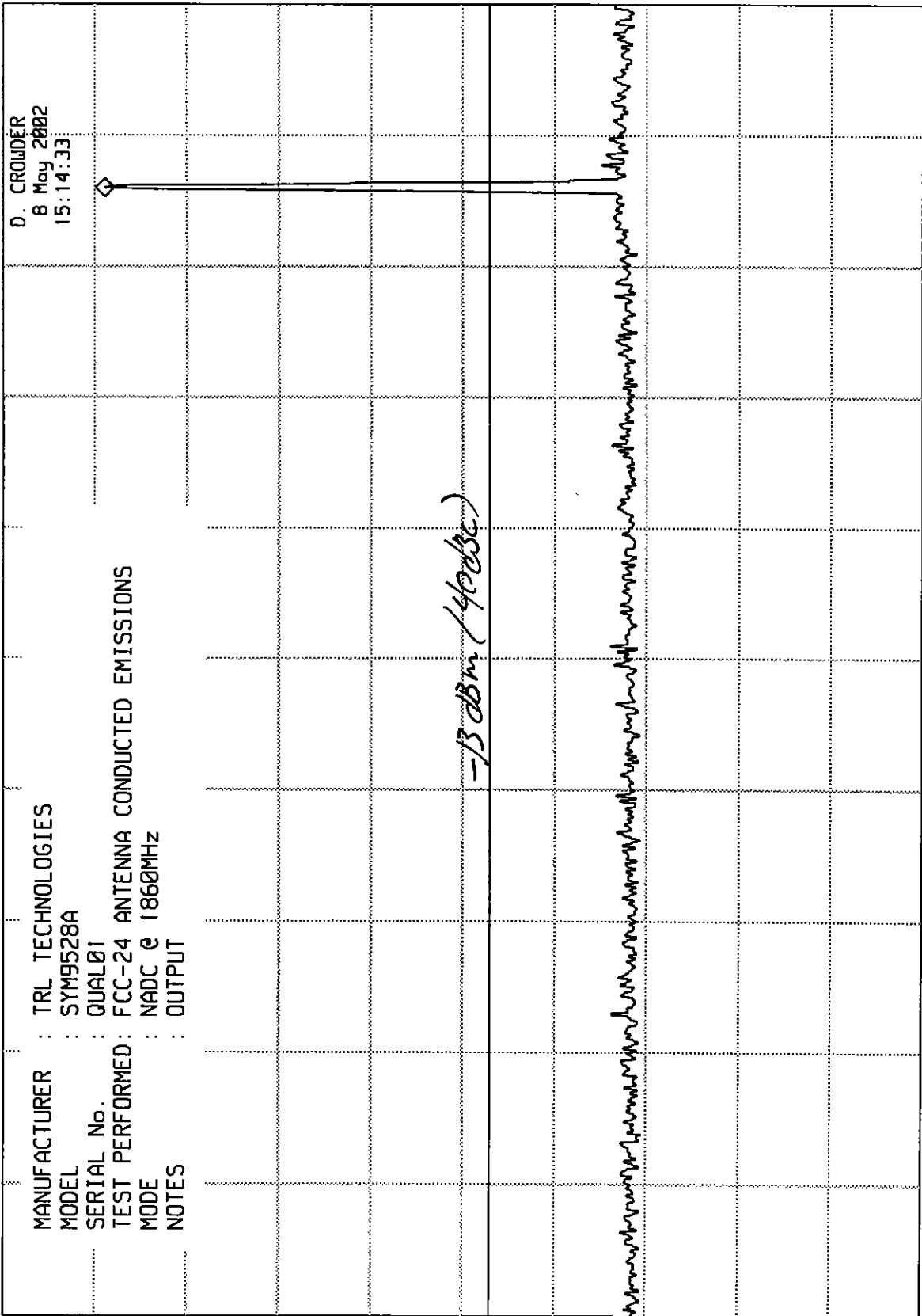
hp

REF 0.0 dBm      ATTN 20 dB + 40 dB Ext

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm



START 1.00 GHz      STOP 2.00 GHz  
RES BW 1 MHz (i)      UBW 3 MHz  
SWP 25.0 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 17.97 GHz  
-57.50 dBm

REF -10.0 dBm      ATTEN 10 dB +40 dB

hp

10 dB/

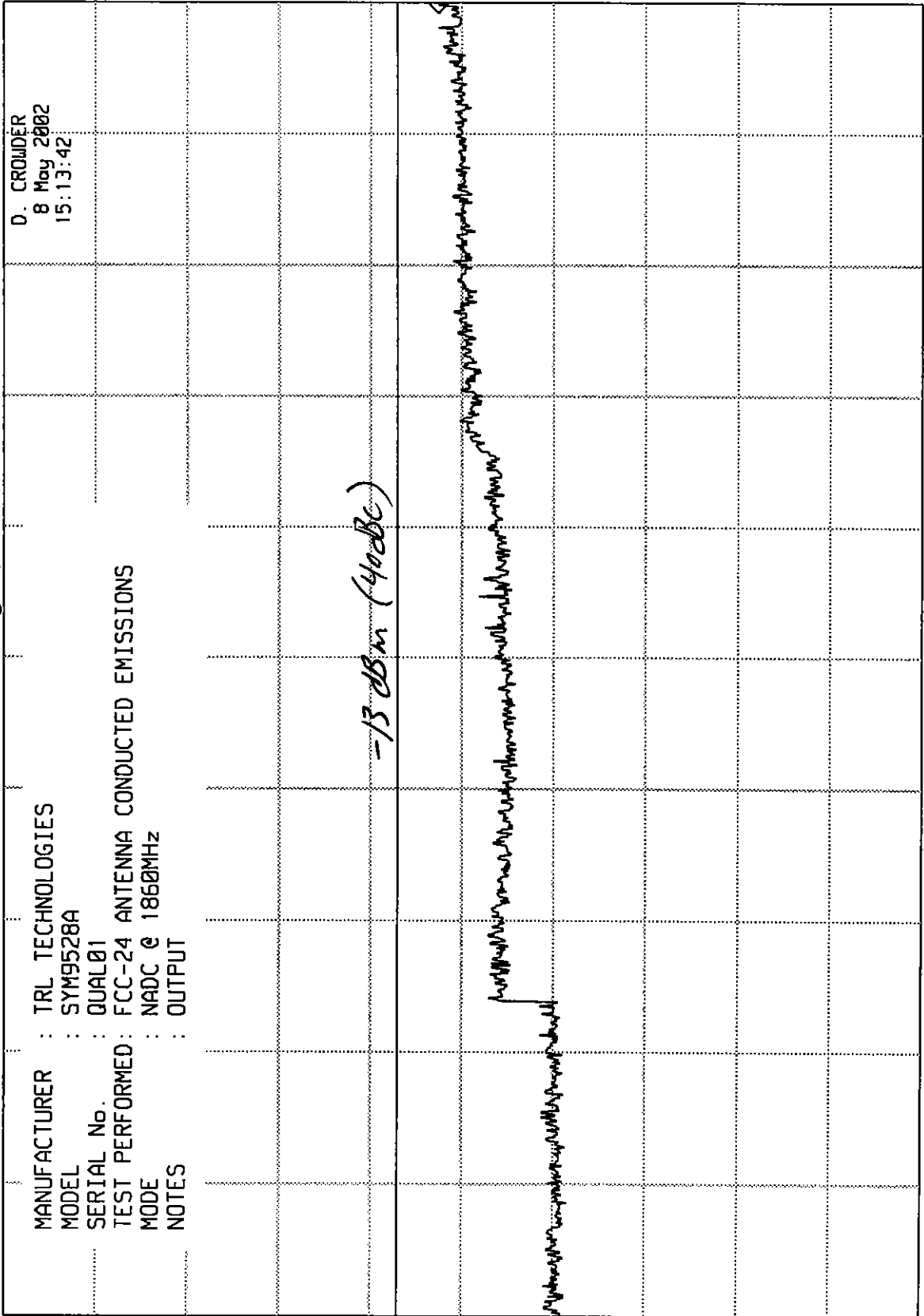
OFFSET

-10.0

dB

DL

-53.0  
dBm



START 2.0 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 18.0 GHz  
SWP 400 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 997.1 MHz  
-64.10 dBm

hp

REF 7.0 dBm

ATTEN 30 dB + 40 dB Ext

10 dB/

OFFSET

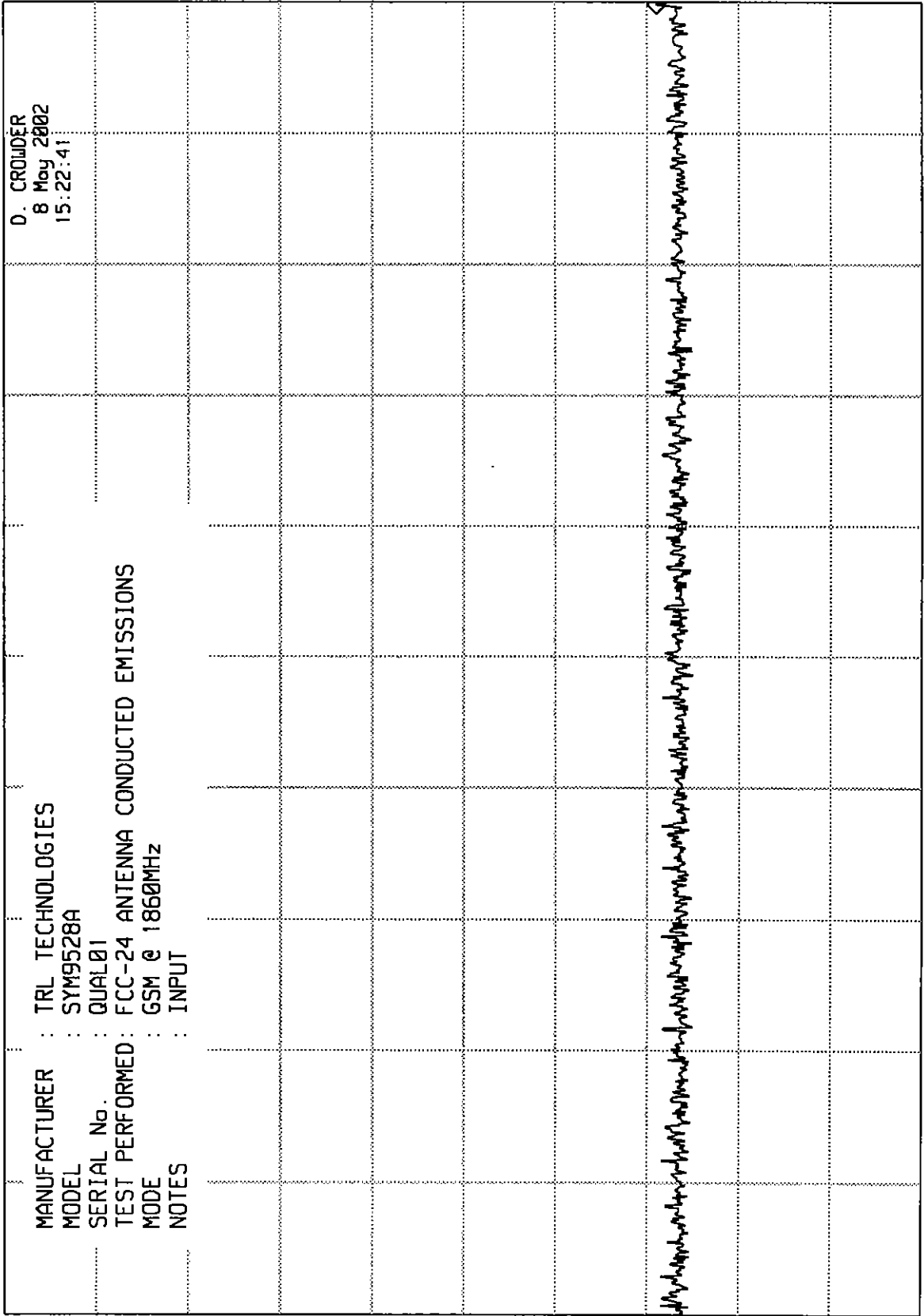
-10.0

dB

DL

-53.0

dBm



START 30 MHz

RES BW 100 kHz (i)

VBW 1 MHz

STOP 1.000 GHz

SWP 728 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 1.859 GHz  
-23.00 dBm

REF 0.0 dBm      ATTN 20 dB + 40 dB Ext

hp

10 dB/

OFFSET

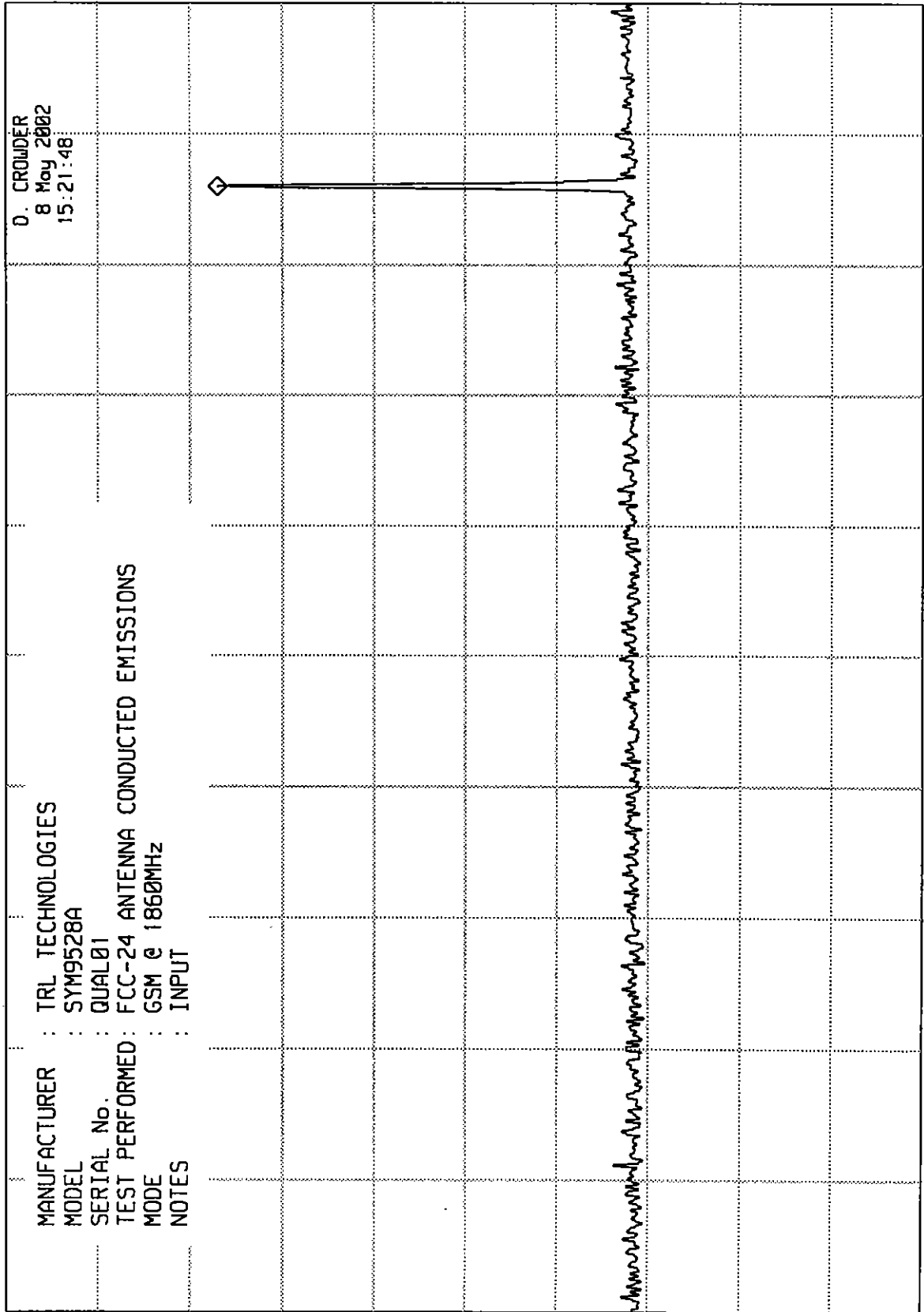
-10.0

dB

DL

-53.0

dBm



START 1.00 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 2.00 GHz  
SWP 25.0 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 17.71 GHz  
-57.90 dBm

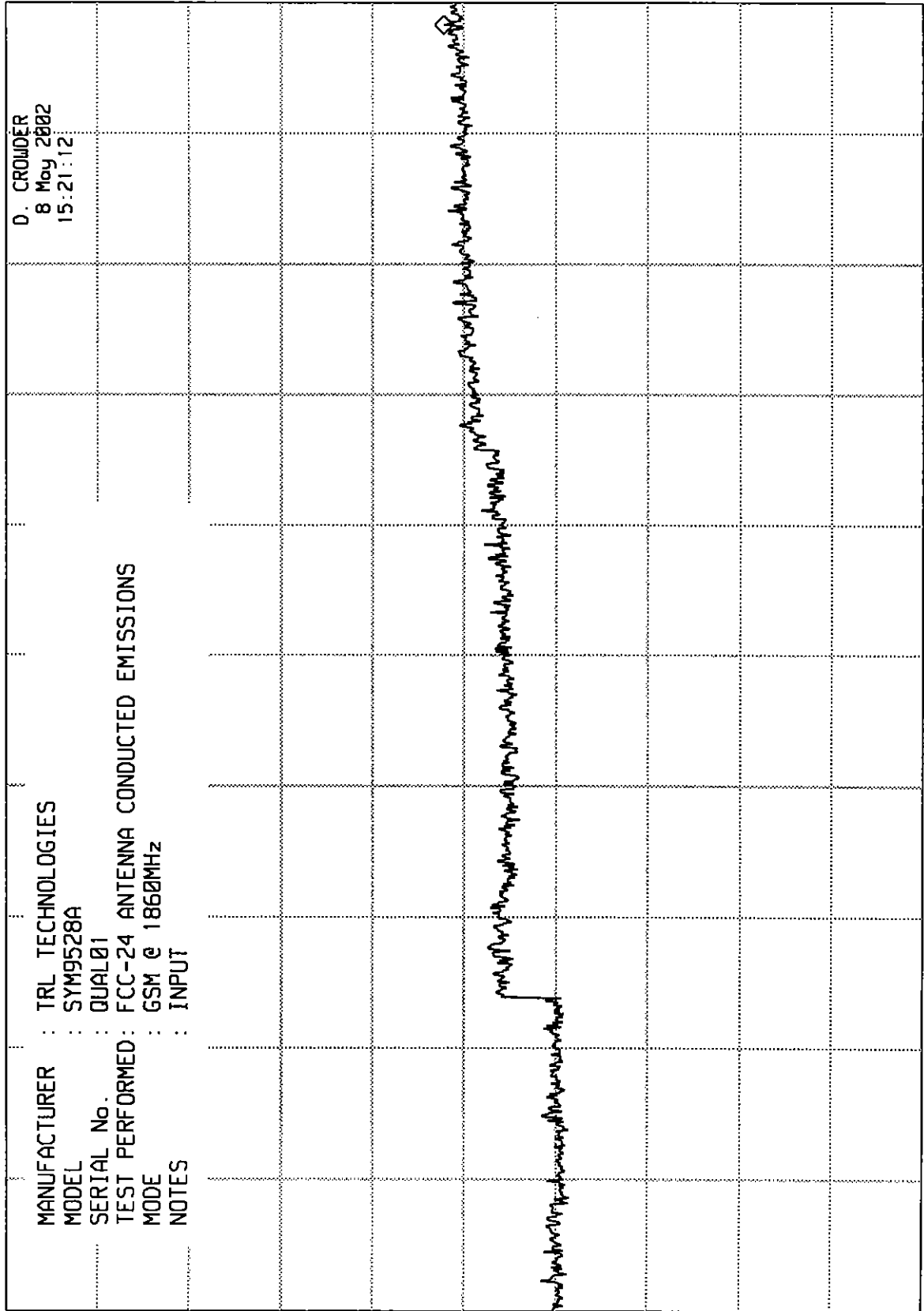
REF -10.0 dBm      ATTN 10 dB + 40 dB Ext

hp

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm



START 2.0 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 18.0 GHz  
SWP 400 msec

MKR 85.3 MHz  
-64.60 dBm

REF 7.0 dBm      ATTN 30 dB + 40 dB 60 dB

D. CROWDER  
8 May 2002  
15:18:25

10 dB/

# OFFSET

-10.0

36

70

-53.0 dBm

MANUFACTURER : TRL TECHNOLOGIES

MODEL : SYM9528A

SERIAL No. : QWAL01

TEST PERFORMED: FCC-24 ANTENNA CONDUCTED EMISSIONS

MODE : GSM @ 1860MHz

NOTES : OUTPUT

$-13dBm$  ( $43dBc$ )

$\frac{d}{dt} \left( \frac{1}{\sqrt{1-v^2/c^2}} \right) = \frac{v}{c^2} \frac{dv}{dt}$

```

START 30 MHz
RES BW 100 kHz(i)
VBW 1 MHz
STOP 1.000 GHz
SWP 728 msec

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ELITE ELECTRONIC ENGINEERING CO

MKR 1.859 GHz  
-10.40 dBm

hp

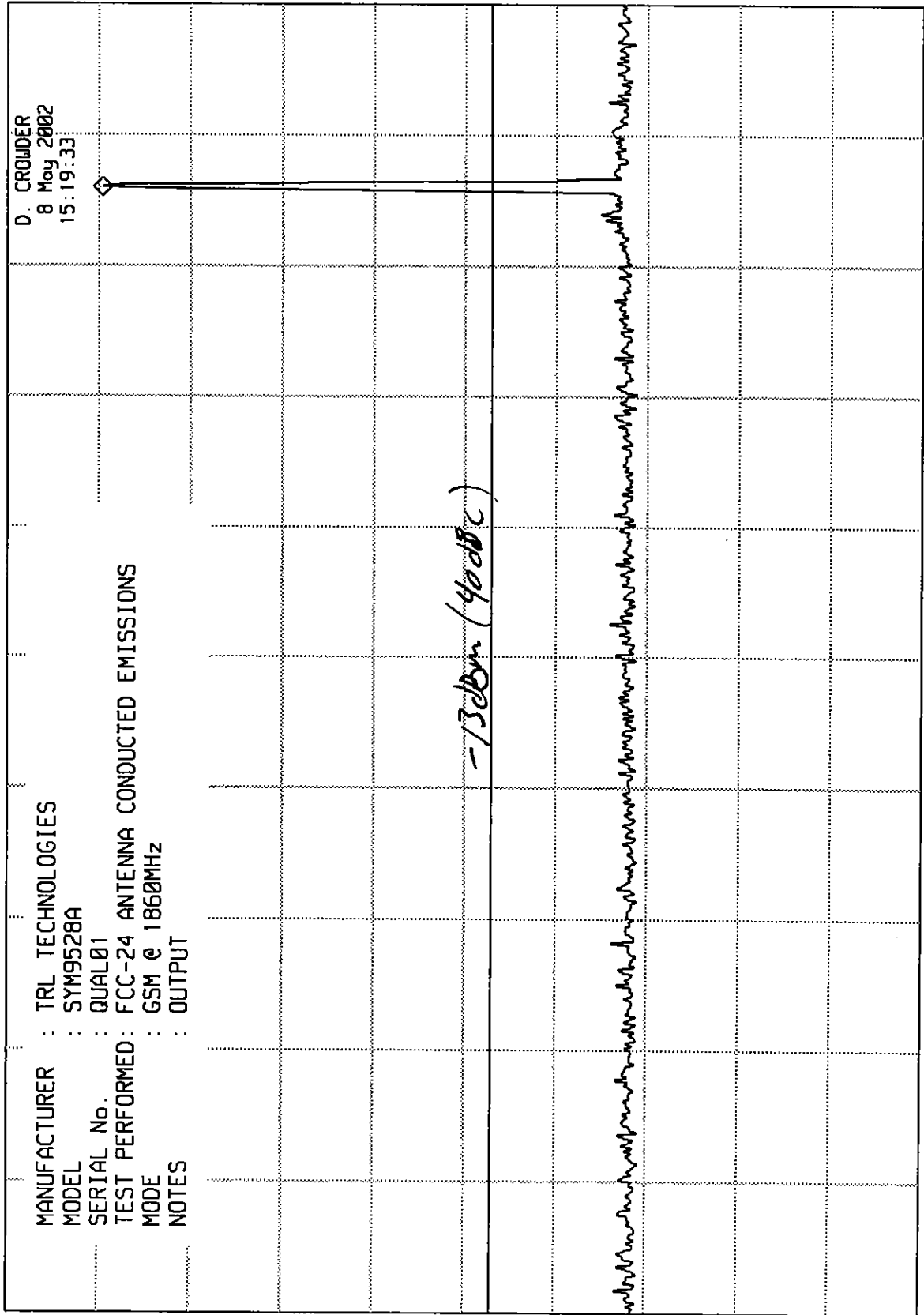
REF 0.0 dBm

ATTEN 20 dB + 40dB EXT

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm



START 1.00 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 2.00 GHz  
SWP 25.0 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 17.62 GHz  
-58.00 dBm

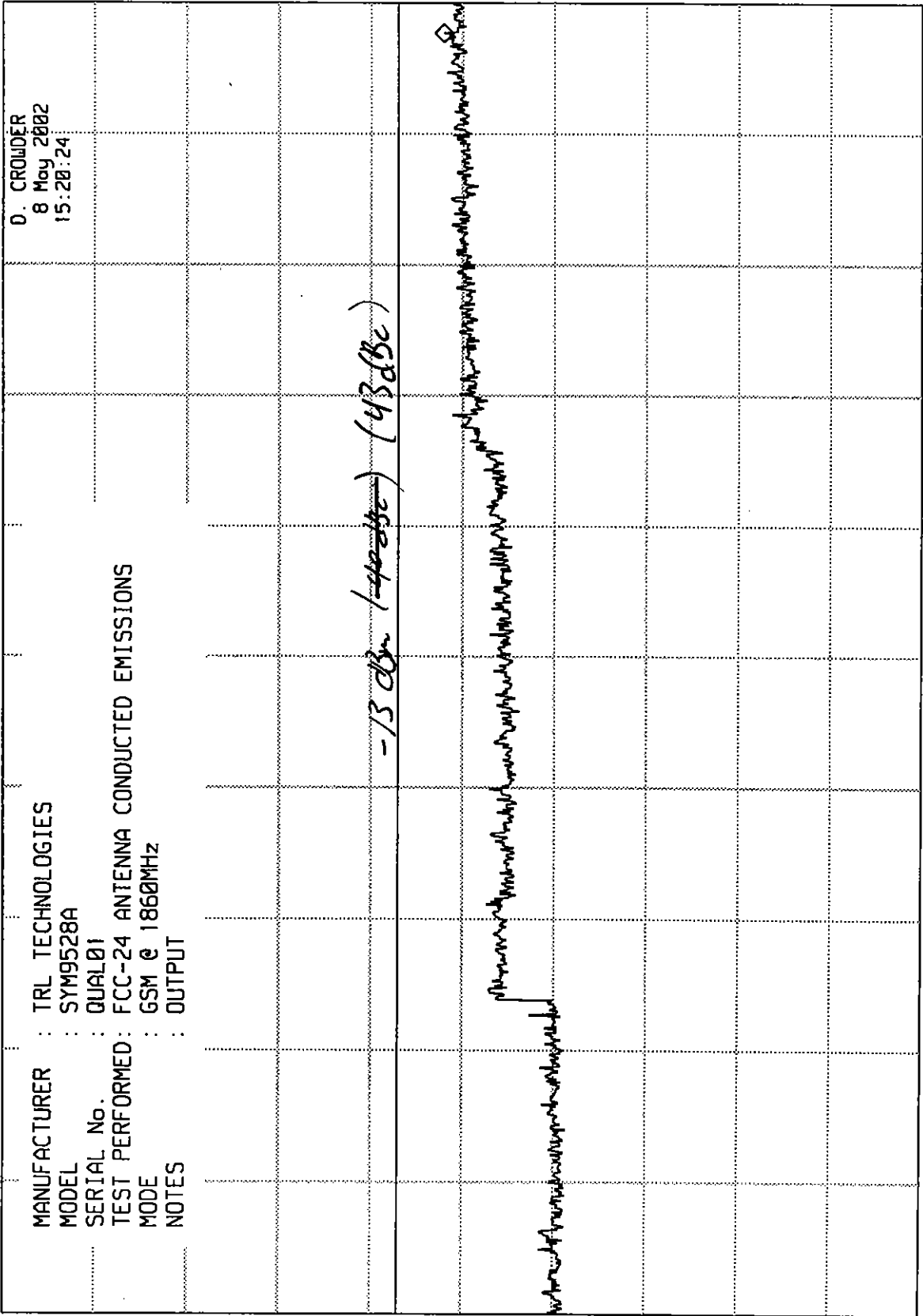
REF -10.0 dBm      ATTN 10 dB + 40 dB Ext

hp

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm



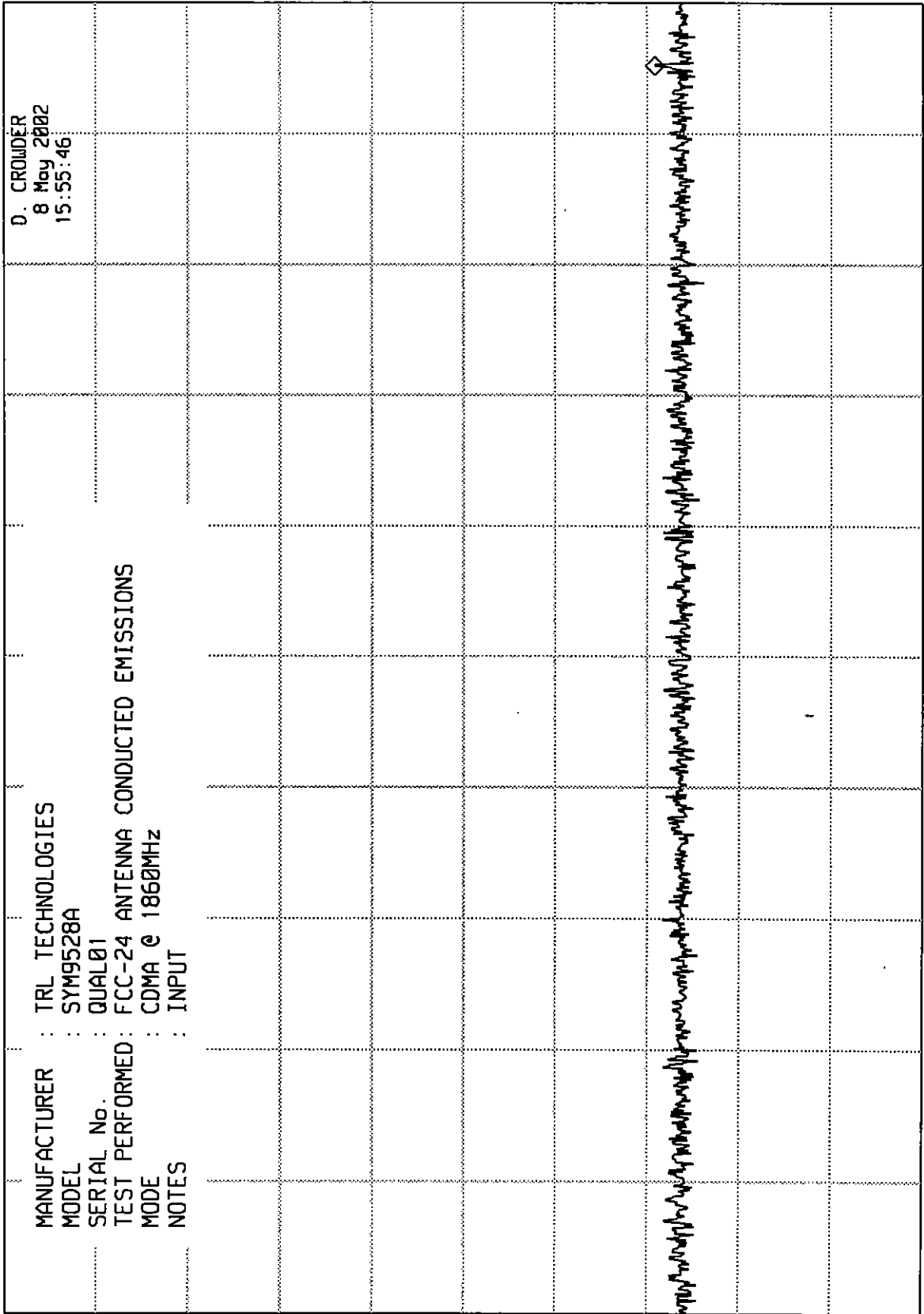
START 2.0 GHz      STOP 18.0 GHz  
RES BW 1 MHz (i)      SWP 400 msec      VBW 3 MHz

ELITE ELECTRONIC ENGINEERING CO

MKR 952.5 MHz  
-63.90 dBm

REF 7.0 dBm ATTN 30 dB + 40 dB Ext

hp 10 dB/  
OFFSET  
-10.0  
dB  
DL -53.0  
dBm



START 30 MHz RES BW 100 kHz (i) STOP 1.000 GHz  
VBW 1 MHz SWP 728 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 1.860 GHz  
-25.10 dBm

REF 0.0 dBm      ATTN 20 dB + 40 dB EXT

hp

10 dB/

OFFSET

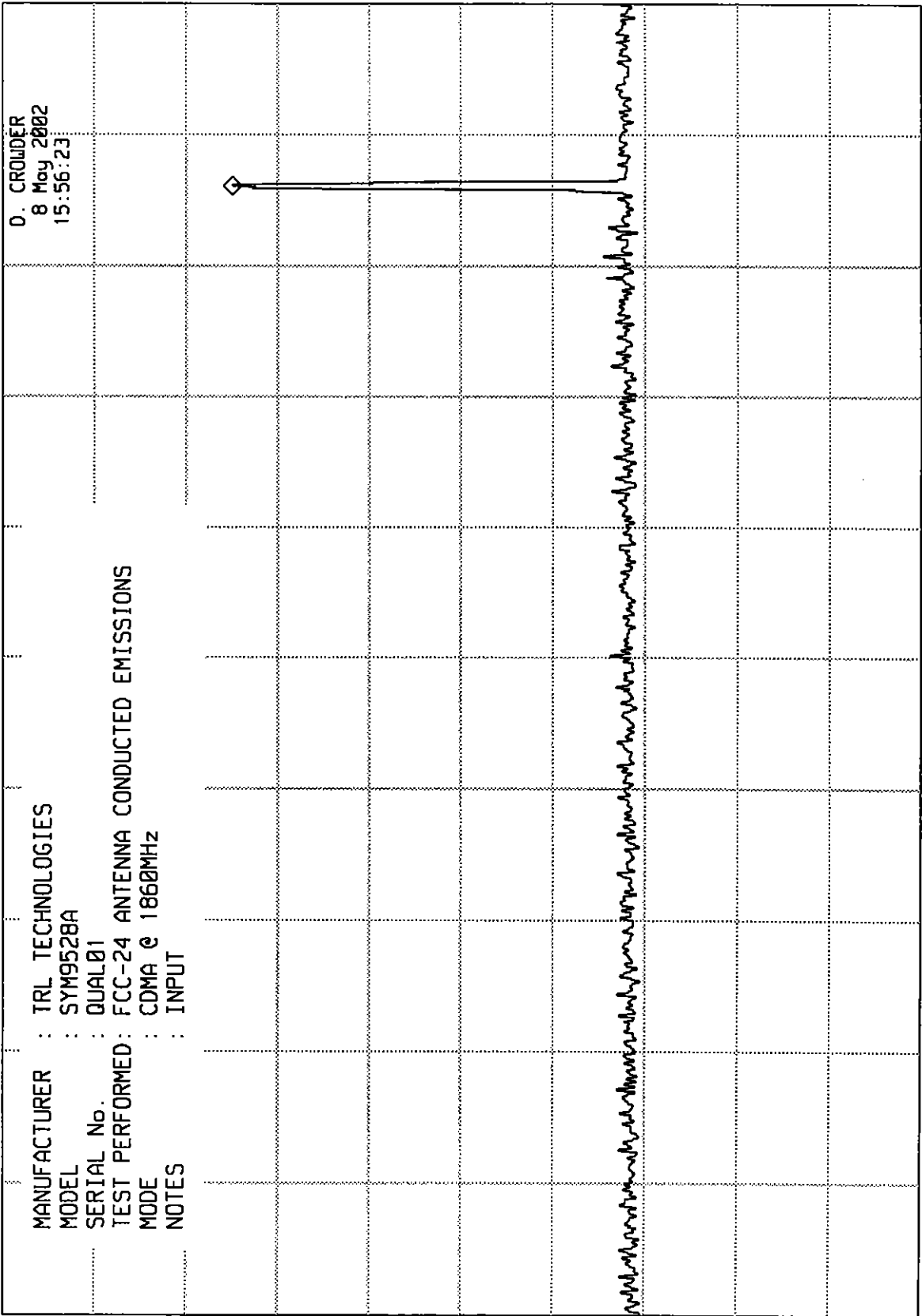
-10.0

dB

DL

-53.0

dBm



START 1.00 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 2.00 GHz  
SWP 25.0 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 17.54 GHz  
-58.40 dBm

REF -10.0 dBm      ATTN 10 dB + 40 dB Ext

hp

10 dB/

OFFSET

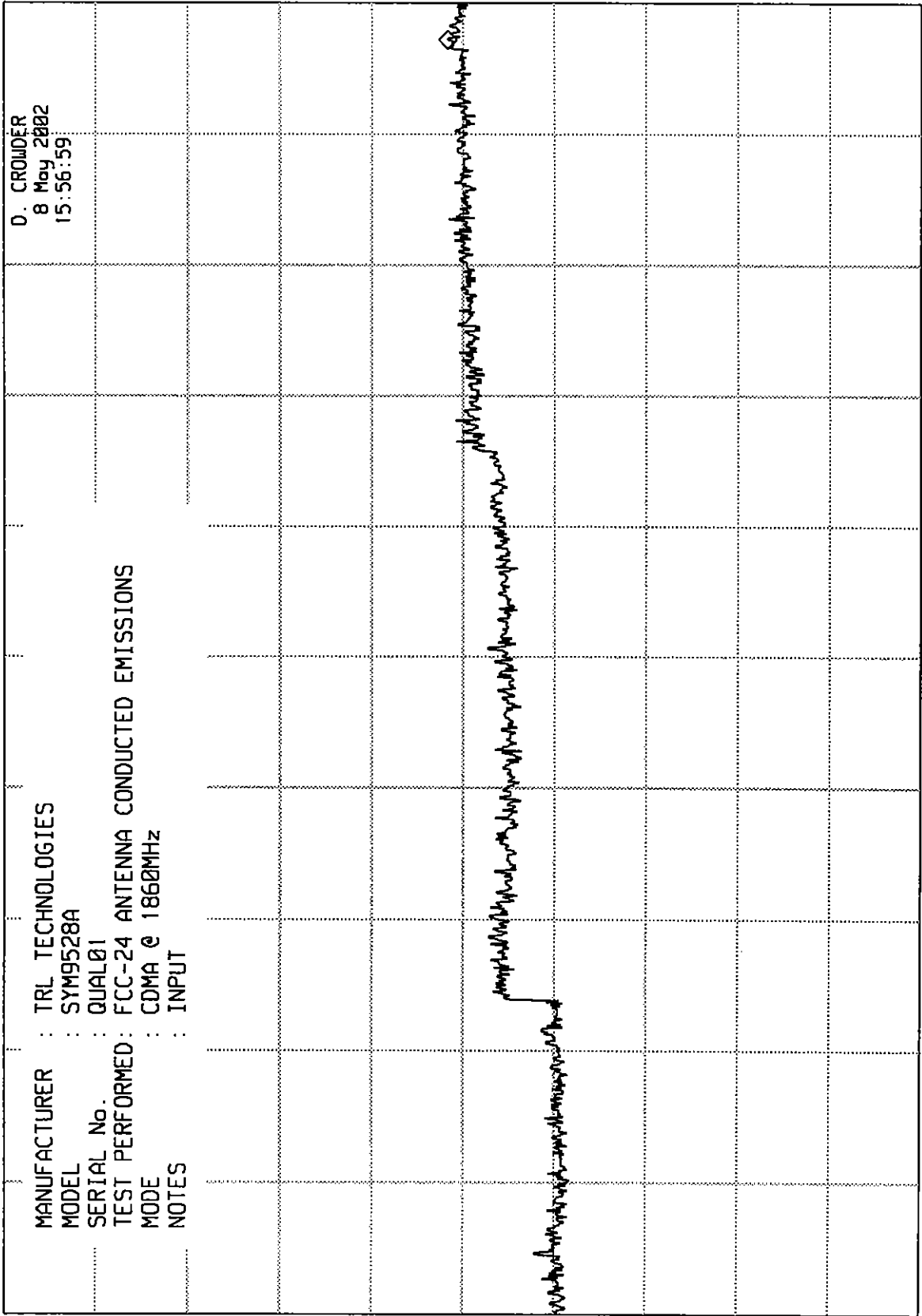
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dB

DL

-53.0

dBm



START 2.0 GHz      STOP 18.0 GHz  
RES BW 1 MHz (i)      VBW 3 MHz      SWP 400 msec

2

ATTEN 30 dB + 40 dB EXT

MANUFACTURER : TRL TECHNOLOGIES

15:59:56:

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.....

DL  
-53.0  
dBm

-13dBm (40dBc)

*[Handwritten signature]*

# ELITE ELECTRONIC ENGINEERING CO

MKR 1.860 GHz  
-11.50 dBm

REF 0.0 dBm      ATTN 20 dB + 40 dB Ext

hp

10 dB/

OFFSET

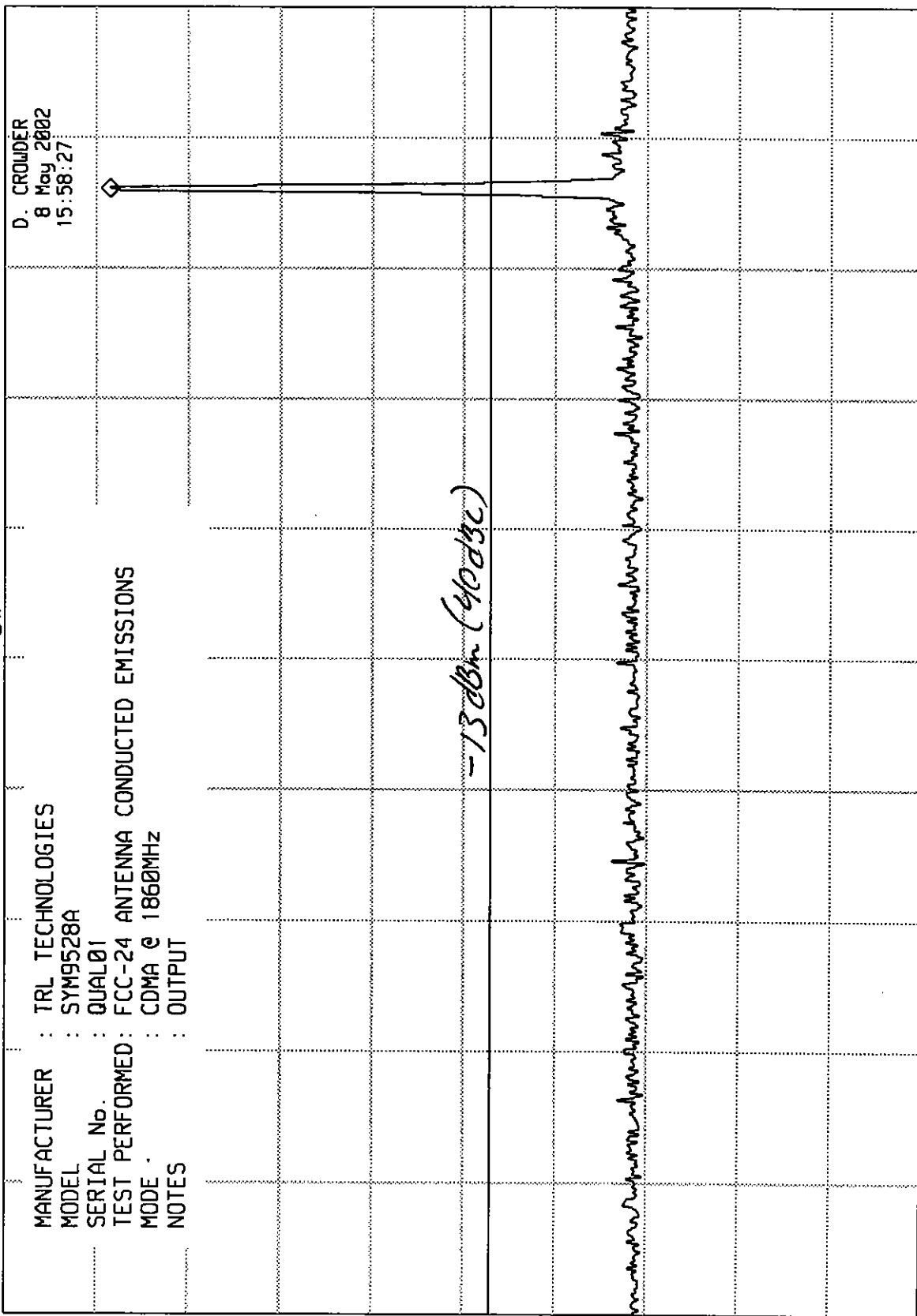
-10.0

dB

DL

-53.0

dBm



START 1.00 GHz      RES BW 1 MHz (i)      STOP 2.00 GHz  
UBW 3 MHz      SWP 25.0 msec

REF -10.0 dBm      ATTN 10 dB + 40 dB Ext

D. CROWDER  
8 May 2002  
15:57:46

```
MANUFACTURER : TRL TECHNOLOGIES
MODEL : SYM9528A
SERIAL No. : QUAL01
TEST PERFORMED: FCC-24 ANTENNA C
MODE : CDMA @ 1800MHz
NOTES : OUTPUT
```

hp  
10 dB/  
OFFSET  
-10.0  
dB  
DL  
-53.0  
dBm

-13 dBm (40 dBc)

$\frac{d}{dt} \left( \frac{1}{r^2} \right) = -\frac{2}{r^3} \frac{dr}{dt}$

```

START 2.0 GHz      STOP 18.0 GHz
RES BW 1 MHz(:)   SWP 400 msec
                   VBW 3 MHz

```

REF 7.0 dBm      ATTN 30 dB + 40 dB Ex7

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm

```
MANUFACTURER : TRL TECHNOLOGIES
MODEL : SYN9528A
SERIAL No. : QUAL01
TEST PERFORMED: FCC-24 ANTENNA CO
MODE : FM @ 180MHz
NOTES : INPUT
```

D. CROWDER  
8 May 2002  
14:36:34

```

START 30 MHz      STOP 1.000 GHz
RES BW 100 kHz(i) SWP 728 msec
UBW 1 MHz

```

ELITE ELECTRONIC ENGINEERING CO

MKR 1.879 GHz  
-25.40 dBm

REF 0.0 dBm      ATTN 20 dB + ~~50~~ 40 dB EXT

hp

10 dB/

OFFSET

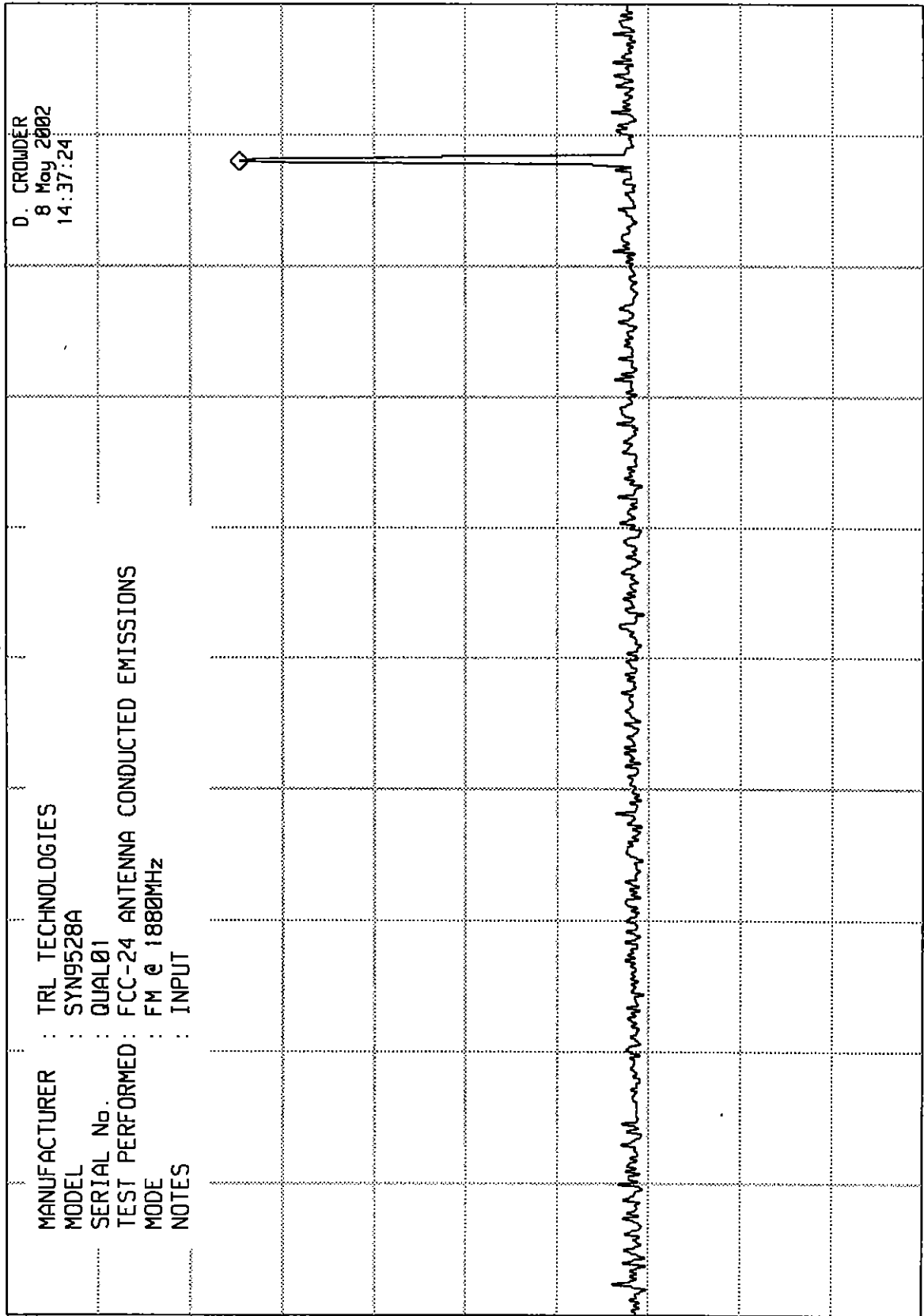
-10.0

dB

DL

-53.0

dBm



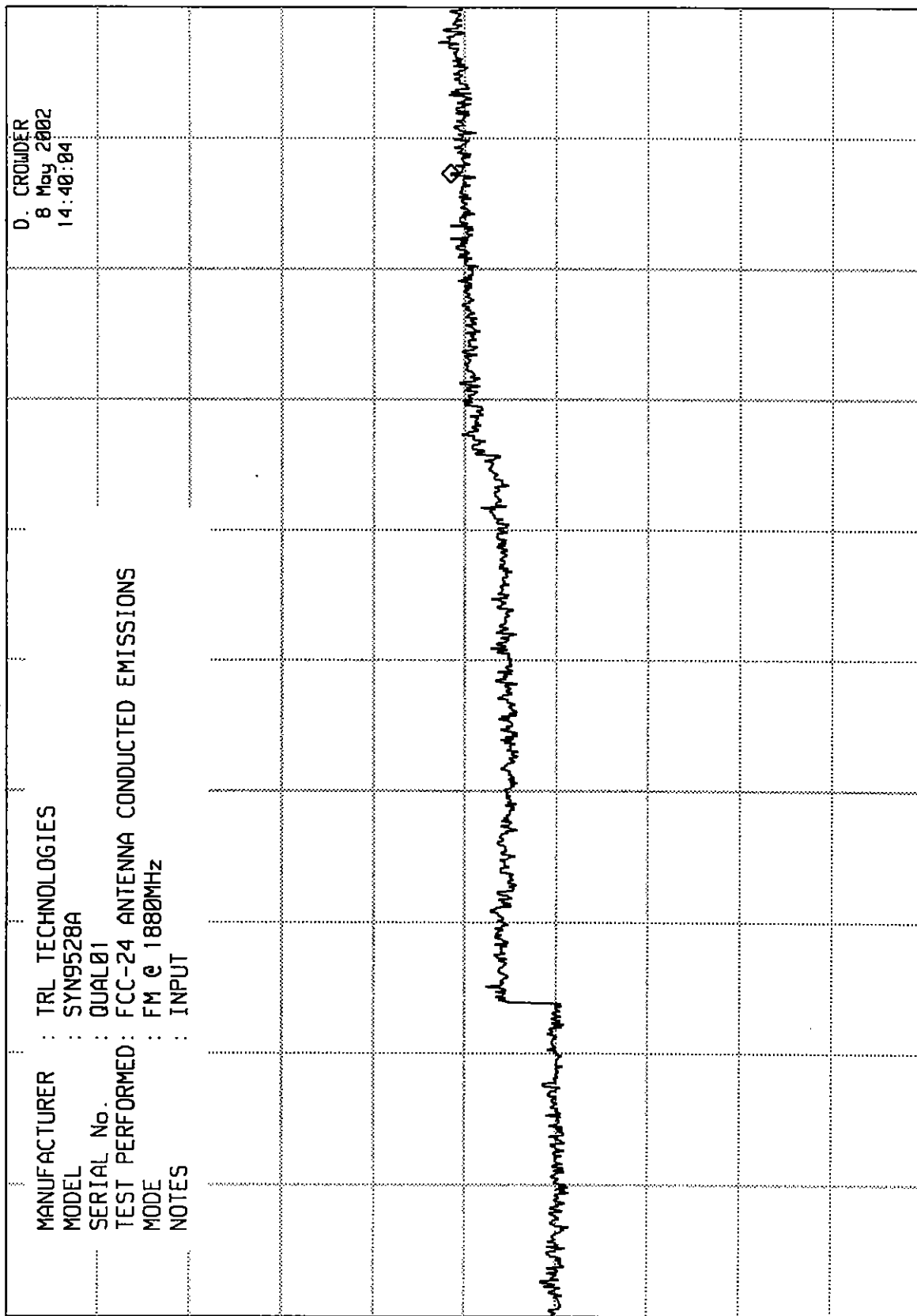
START 1.00 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 2.00 GHz  
SWP 25.0 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 15.95 GHz  
-58.50 dBm

REF -10.0 dBm      ATTN 10 dB + 40 dB Ext

hp 10 dB/  
OFFSET  
-10.0  
dB  
DL -53.0  
dBm



START 2.0 GHz      STOP 18.0 GHz  
RES BW 1 MHz (i)      VBW 3 MHz      SWP 400 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 709.0 MHz  
-64.20 dBm

2

REF 7.0 dBm

ATTEN 30 dB + 40 dB Ext

10 dB/

OFFSET  
-10.0  
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OL  
-53.0  
dBm

MANUFACTURER : TRL TECHNOLOGIES  
MODEL : SYN9528A  
SERIAL No. : QUAL01  
TEST PERFORMED: FCC-24 ANTENNA CO  
MODE : FM @ 1880MHz  
NOTES : OUTPUT

D. CROWDER  
8 May 2002  
14:43:02

$-13 \text{ dBm} (40 \text{ dBc})$

Data Page 118 of 198

START 30 MHz

RES BW 100 kHz(i)

VBW 1 MHz

STOP 1.000 GHz  
SWP 728 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 1.879 GHz  
-12.60 dBm

hp

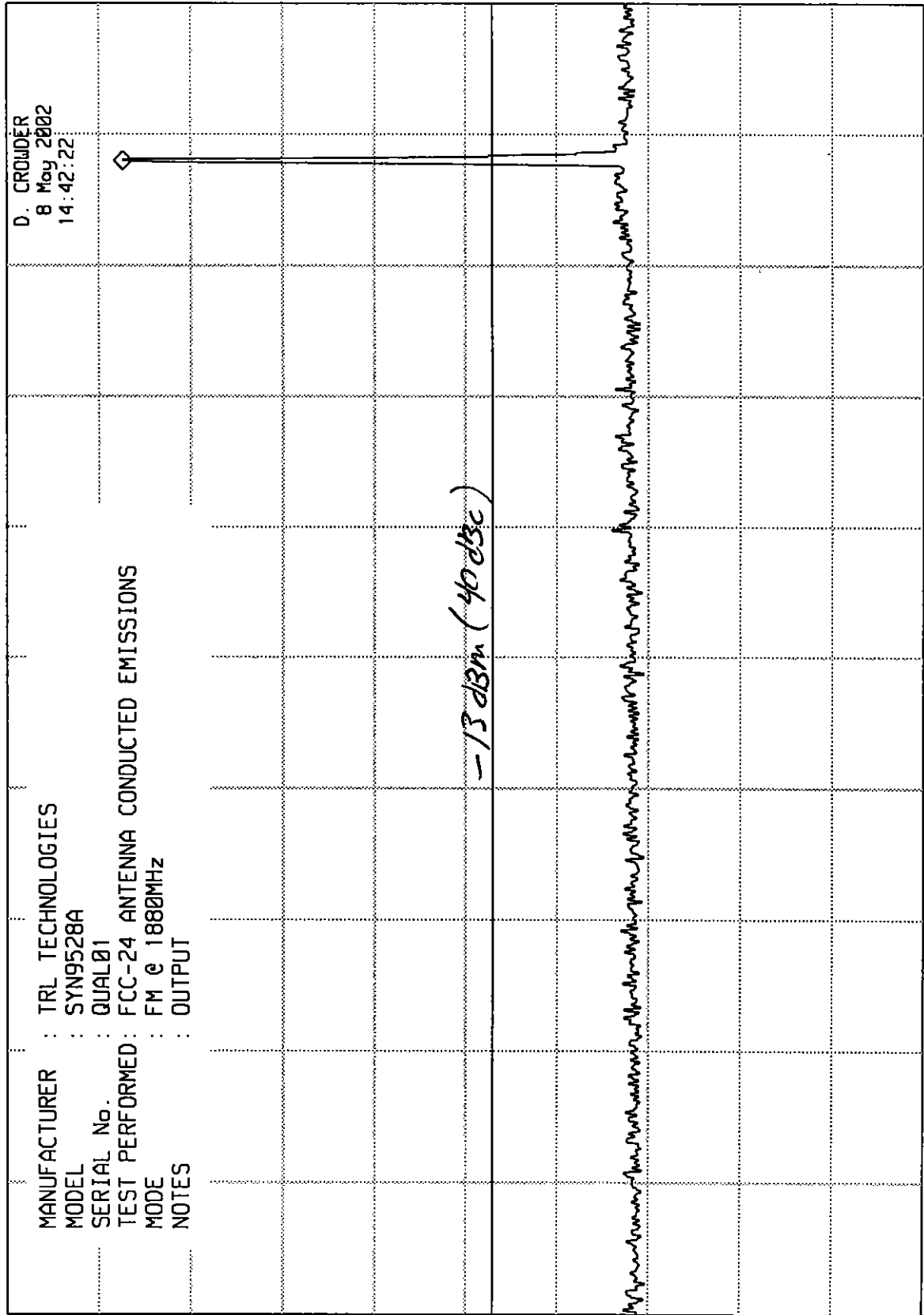
REF 0.0 dBm      ATTN 20 dB + 40 dB Ext

10 dB/

OFFSET  
-10.0

dB

DL  
-53.0  
dBm



START 1.00 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 2.00 GHz  
SWP 25.0 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 16.30 GHz  
-57.80 dBm

REF -10.0 dBm      ATTN 10 dB + 40 dB Ext

hp

10 dB/

OFFSET

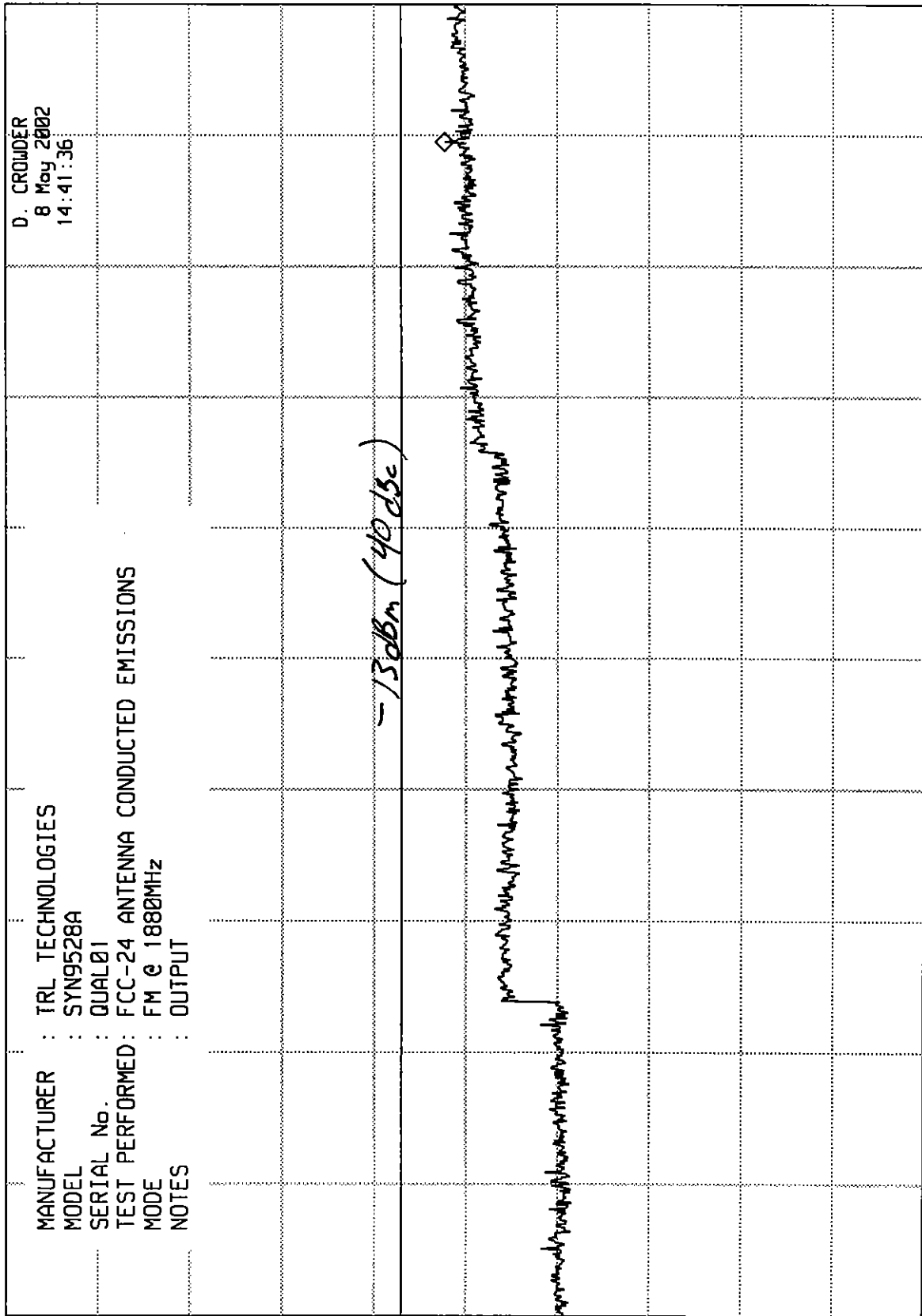
-10.0

dB

DL

-53.0

dBm



START 2.0 GHz      RES BW 1 MHz(i)      VBW 3 MHz      STOP 18.0 GHz  
SWP 400 msec

25

REF 7.0 dBm

ATTEN 30 dB + 40 dB EXT

D. CROWDER  
8 May 2002  
15:09:44

MANUFACTURER : TRL TECHNOLOGIES

MODEL : SYM9528A

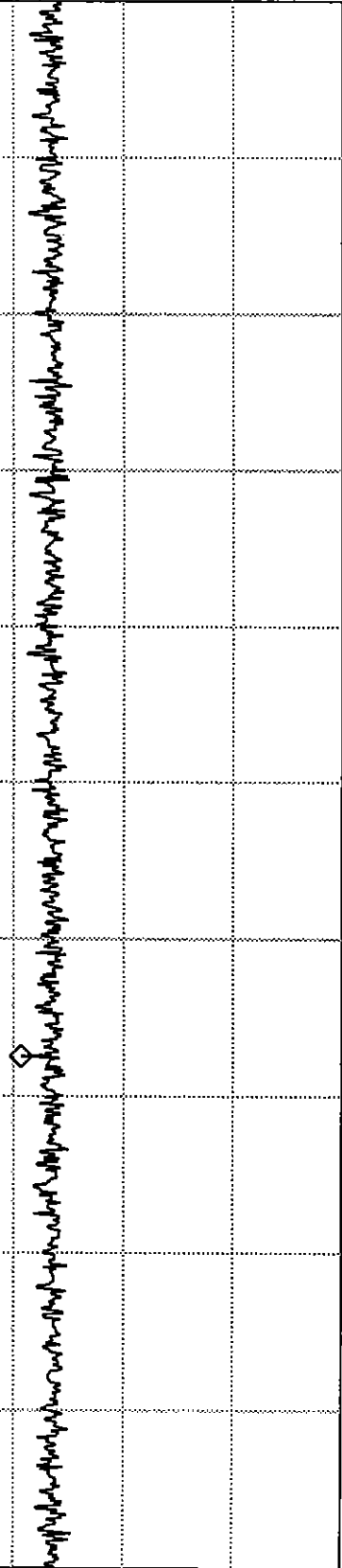
SERIAL No. : QUAL01

TEST PERFORMED: FCC-24 ANTENNA CONDUCTED EMISSIONS

MODE : NADC @ 1880MHZ

NOTES : INPUT

DL  
-53.0  
dBm



START 30 MHZ

RES BW 100 KHZ(i)

VBW 1 MHz

STOP 1.000 GHz  
SWP 728 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 1.879 GHz  
-22.90 dBm

REF 0.0 dBm      ATTN 20 dB + 40 dB Ext

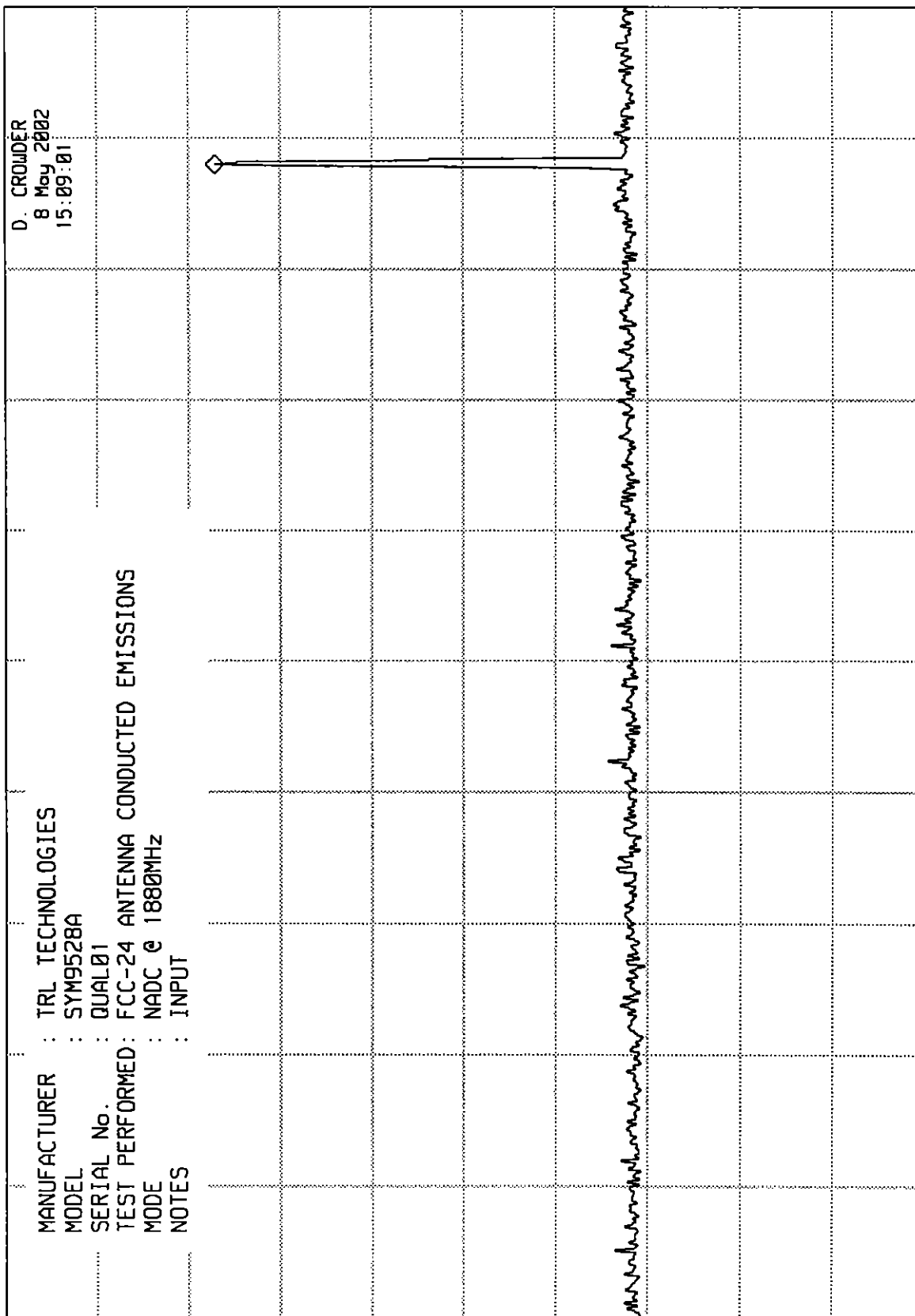
hp

10 dB/

OFFSET  
-10.0

dB

DL  
-53.0  
dBm



START 1.00 GHz      RES BW 1 MHz (i)      STOP 2.00 GHz  
UBW 3 MHz      SWP 25.0 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 17.49 GHz  
-57.70 dBm

REF -10.0 dBm ATTEN 10 dB + 40 dB Ext

hp

10 dB/

OFFSET

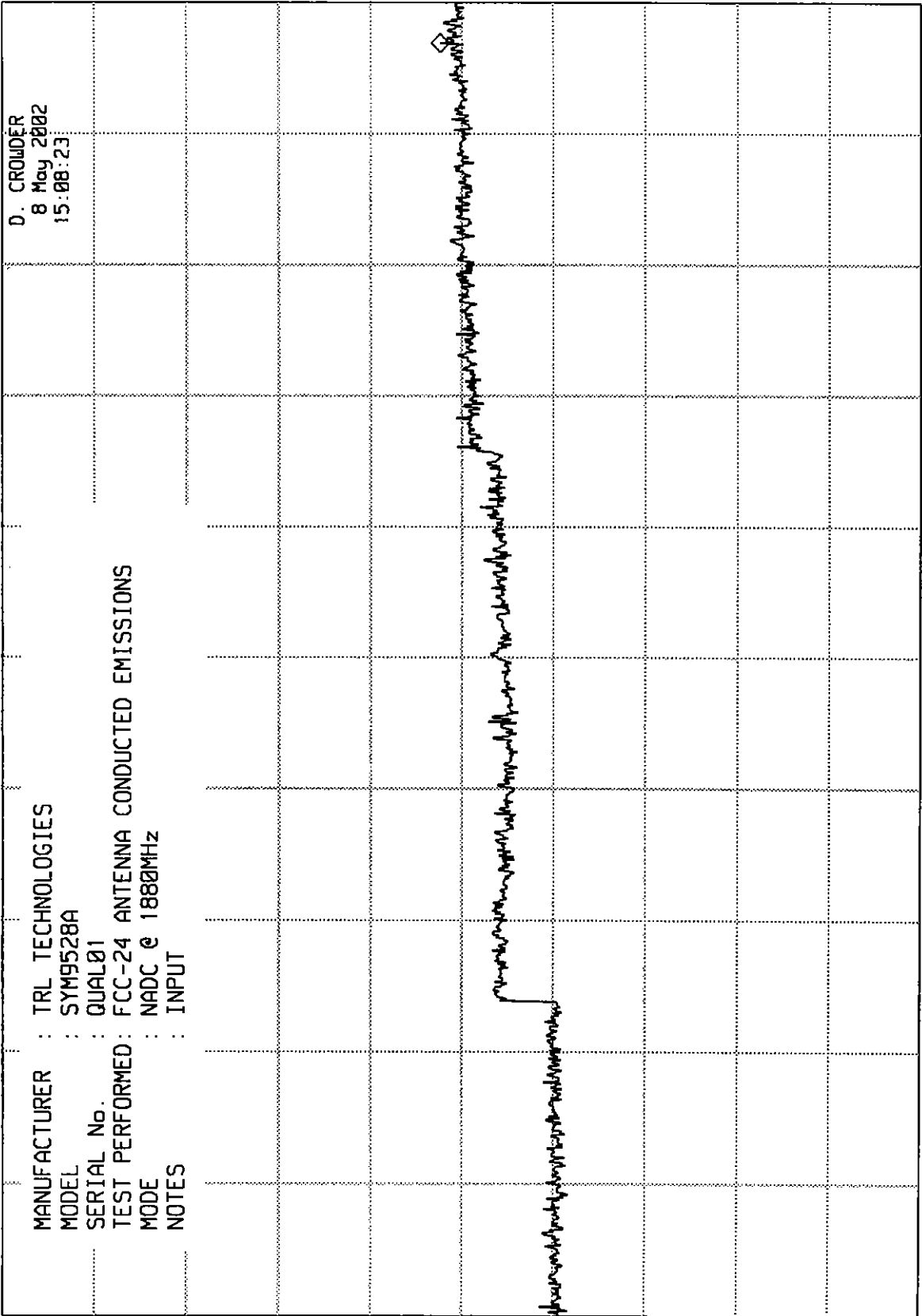
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dB

DL

-53.0

dBm



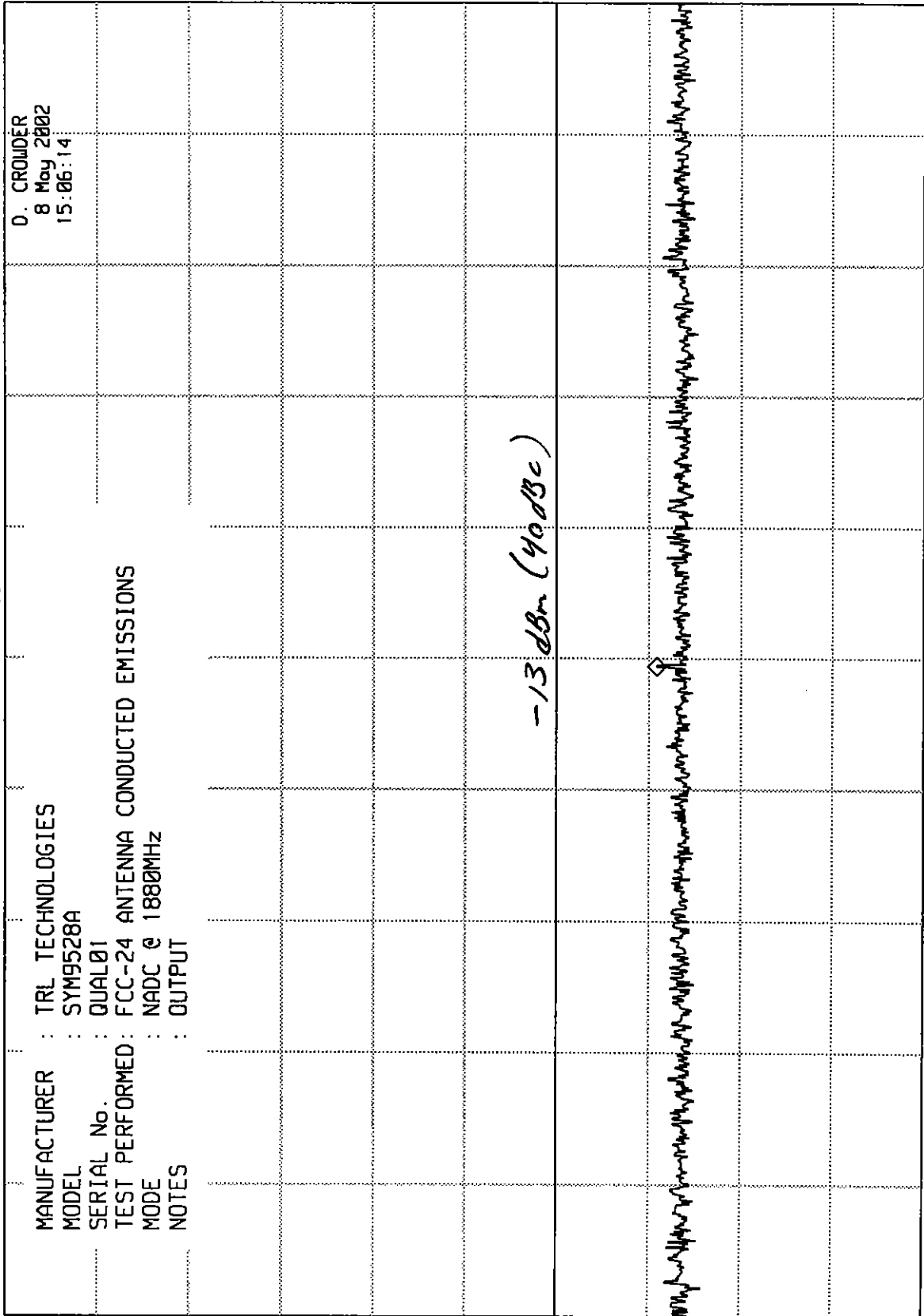
START 2.0 GHz RES BW 1 MHz (i) STOP 18.0 GHz  
UBW 3 MHz SWP 400 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 508.2 MHz  
-63.90 dBm

REF 7.0 dBm      ATTN 30 dB + 40 dB EXT

hp  
10 dB/  
OFFSET  
-10.0  
dB  
DL  
-53.0  
dBm



START 30 MHz      RES BW 100 kHz (i)      VBW 1 MHz      STOP 1.000 GHz  
SWP 728 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 1.879 GHz  
-11.40 dBm

REF 0.0 dBm      ATTN 20 dB + 40 dB Ext

hp

10 dB/

OFFSET

-10.0

dB

DL

-53.0

dBm

MANUFACTURER : TRL TECHNOLOGIES

MODEL : SYM9528A

SERIAL No. : QUAL01

TEST PERFORMED : FCC-24 ANTENNA CONDUCTED EMISSIONS

MODE : NADC @ 1800MHz

NOTES : OUTPUT

D. CROWDER  
8 May 2002  
15:06:58

-13 dBm (40 dBc)

START 1.00 GHz

RES BW 1 MHz (i)

VBW 3 MHz

STOP 2.00 GHz

SWP 25.0 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 17.58 GHz  
-58.00 dBm

REF -10.0 dBm ATTEN 10 dB + 40 dB EXT

hp

10 dB/

OFFSET

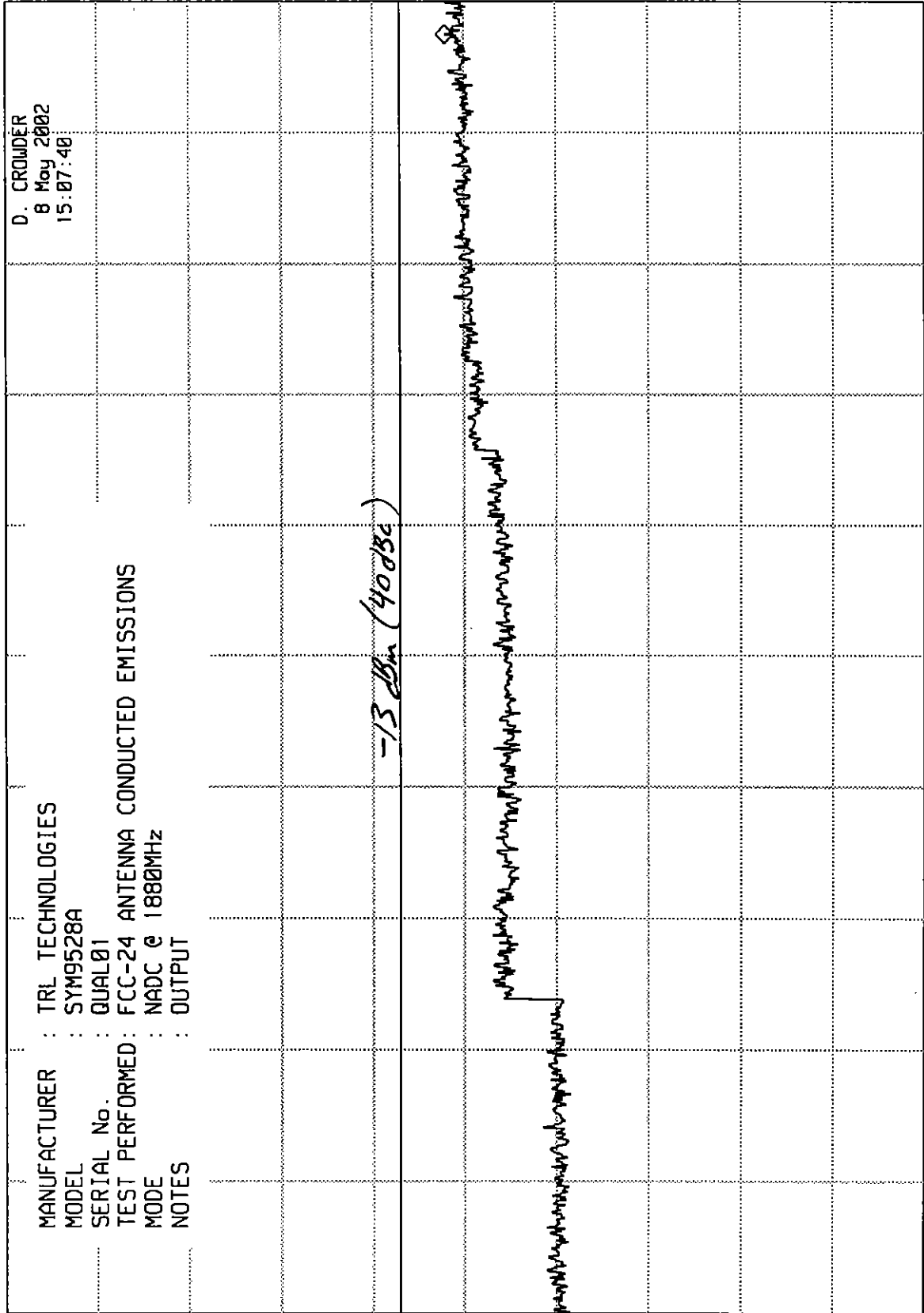
-10.0

dB

DL

-53.0

dBm



START 2.0 GHz RES BW 1 MHz (i) STOP 18.0 GHz  
UBW 3 MHz SWP 400 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 422.9 MHz  
-64.20 dBm

ATTEN 30 dB + 40 dB EXT

REF 7.0 dBm

hp

10 dB/

OFFSET

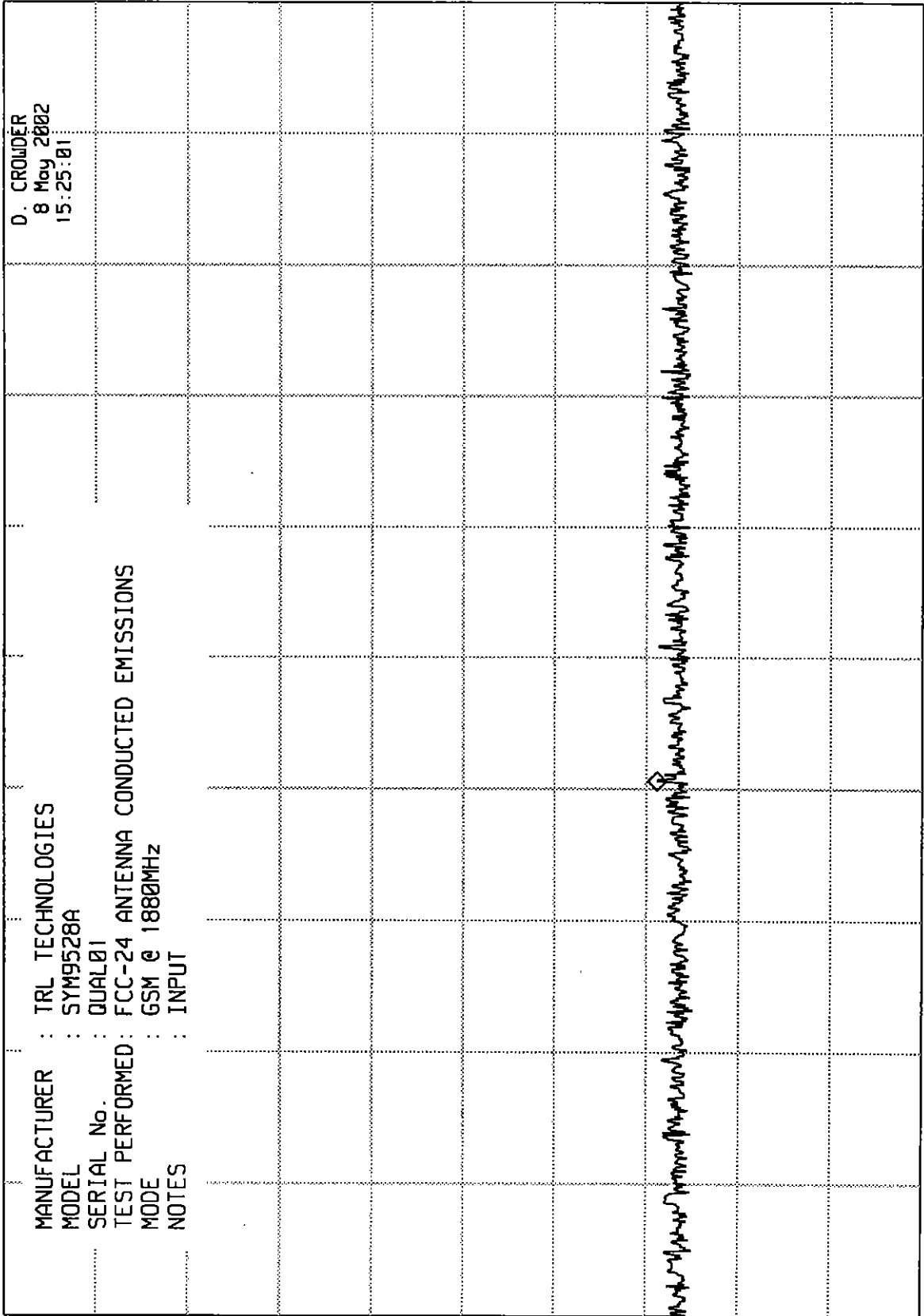
-10.0

dB

DL

-53.0

dBm



START 30 MHz

RES BW 100 kHz (i)

VBW 1 MHz

STOP 1.000 GHz  
SWP 728 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 1.879 GHz  
-21.90 dBm

hp

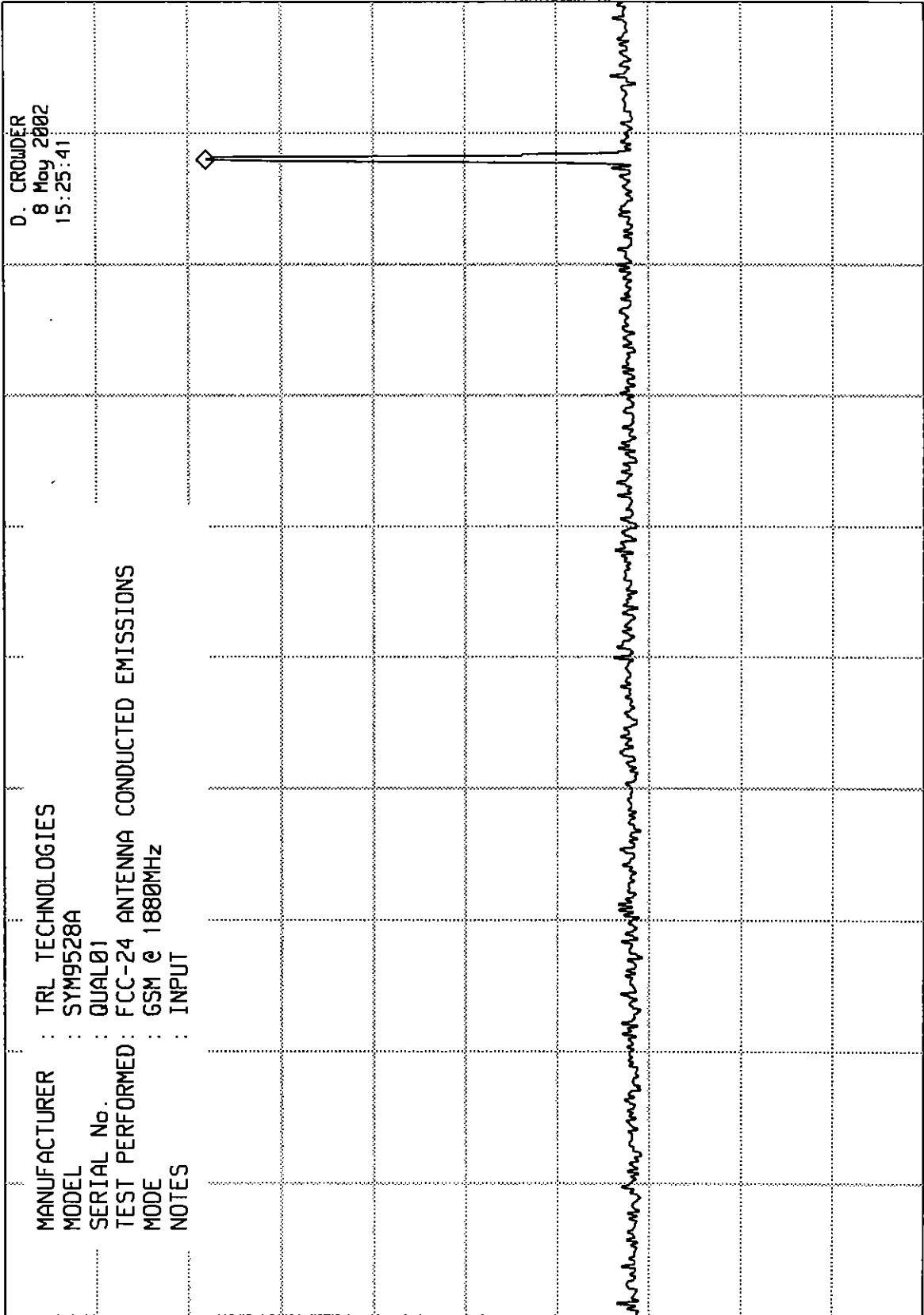
REF 0.0 dBm

ATTEN 20 dB + 40 dB EXT

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm



START 1.00 GHz  
RES BW 1 MHz (i)  
STOP 2.00 GHz  
SWP 25.0 msec  
VBW 3 MHz

ELITE ELECTRONIC ENGINEERING CO

MKR 17.76 GHz  
-58.00 dBm

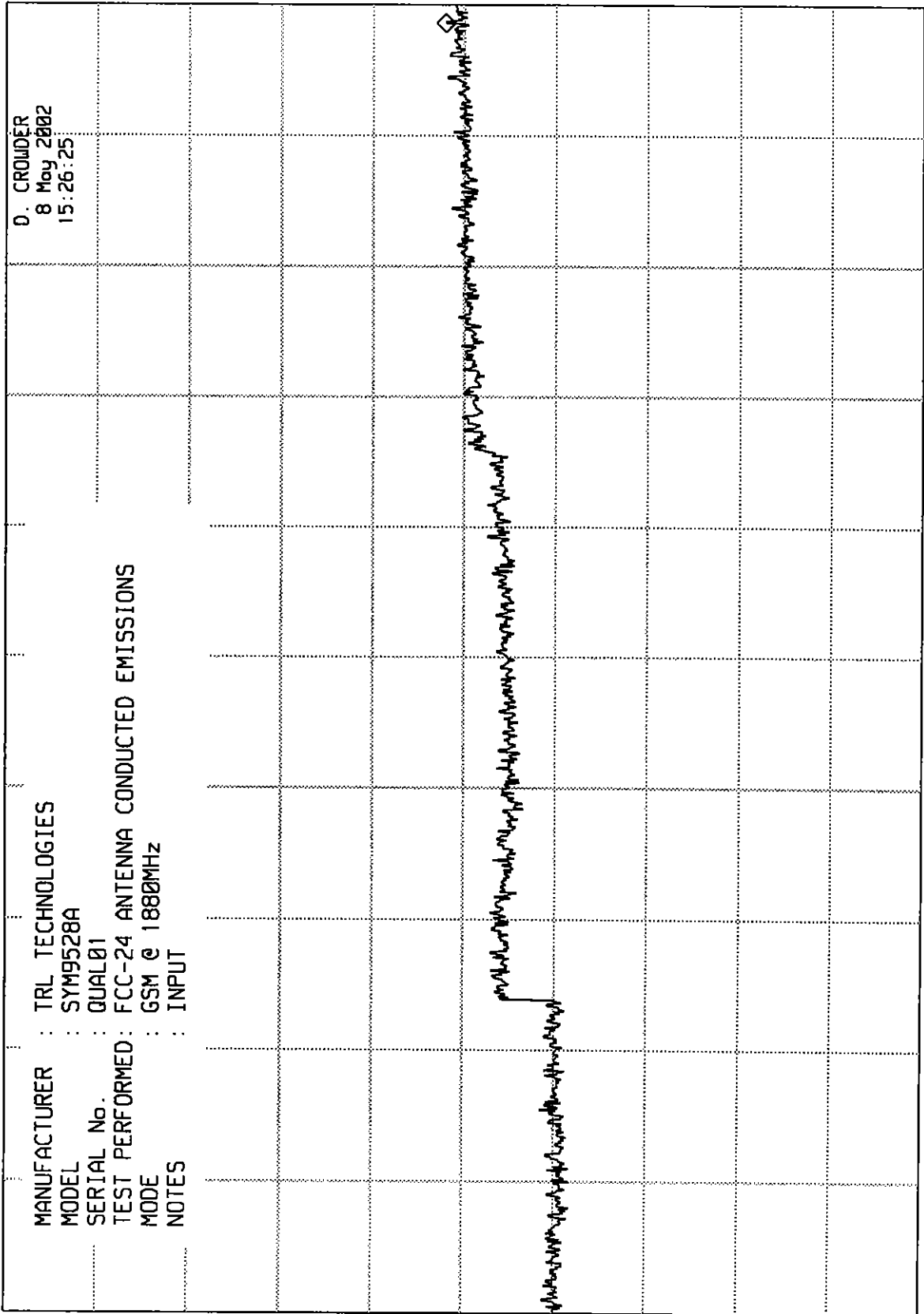
REF -10.0 dBm      ATTN 10 dB + 40 dB EXT

hp

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm



START 2.0 GHz      RES BW 1 MHz (i)      STOP 18.0 GHz  
UBW 3 MHz      SWP 400 msec

5

10 dB/

```
MANUFACTURER : TRL TECHNOLOGIES
MODEL : SYM9528A
SERIAL No. : QUAL01
TEST PERFORMED : FCC-24 ANTENNA CO
MODE : GSM @ 1880MHz
NOTES : OUTPUT
```

-13 dBm (43 dBc)

```

START 30 MHz      STOP 1.000 GHz
RES BW 100 kHz(i) SWP 728 msec
VBW 1 MHz

```

# ELITE ELECTRONIC ENGINEERING CO

MKR 1.879 GHz  
-9.90 dBm

REF 0.0 dBm      ATTN 20 dB + 40 dB Ext

hp

10 dB/

OFFSET

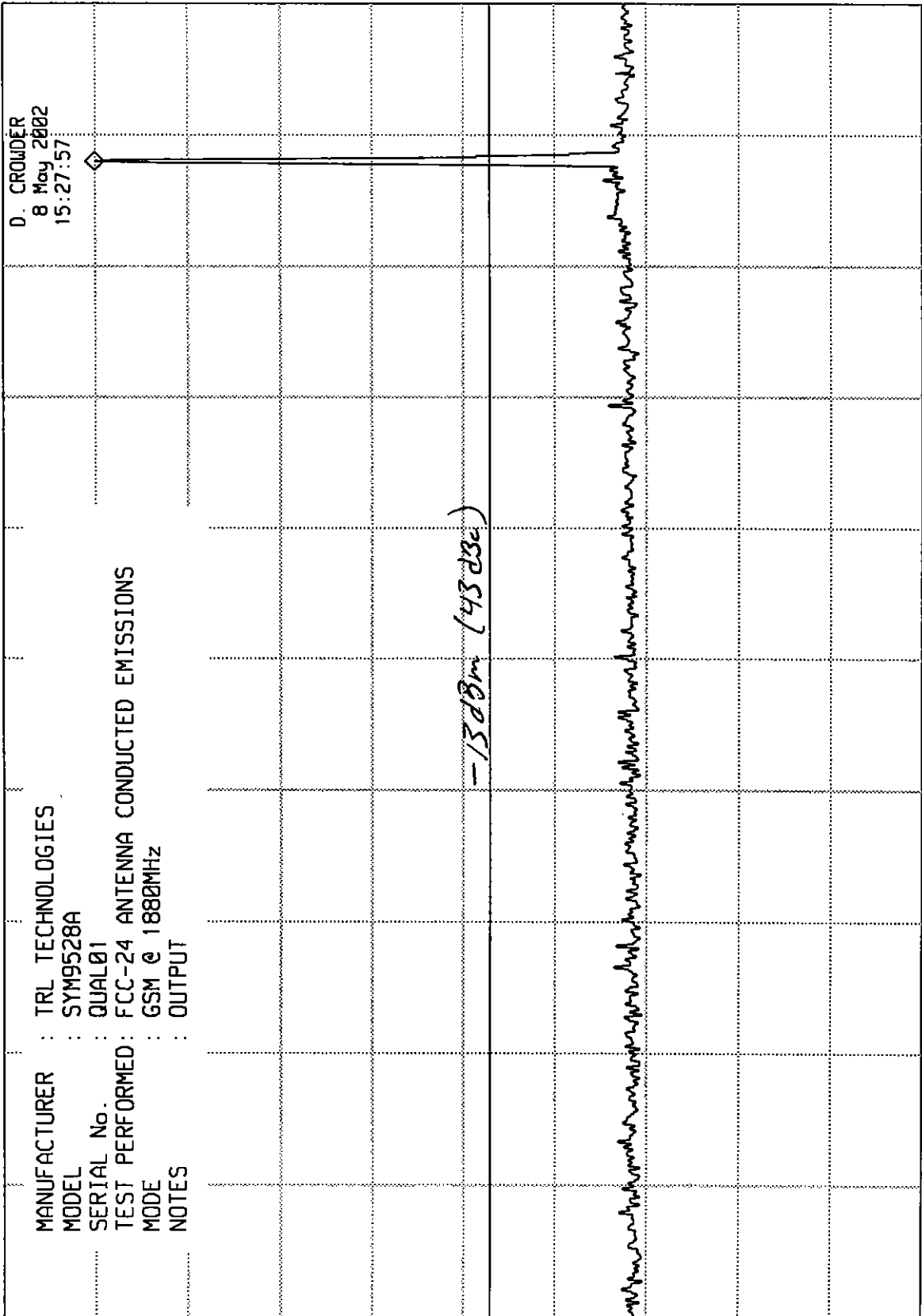
-10.0

dB

DL

-53.0

dBm



START 1.00 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 2.00 GHz  
SWP 25.0 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 17.58 GHz  
-58.50 dBm

REF -10.0 dBm      ATTEN 10 dB + 40 dB EXT

hp

10 dB/

OFFSET

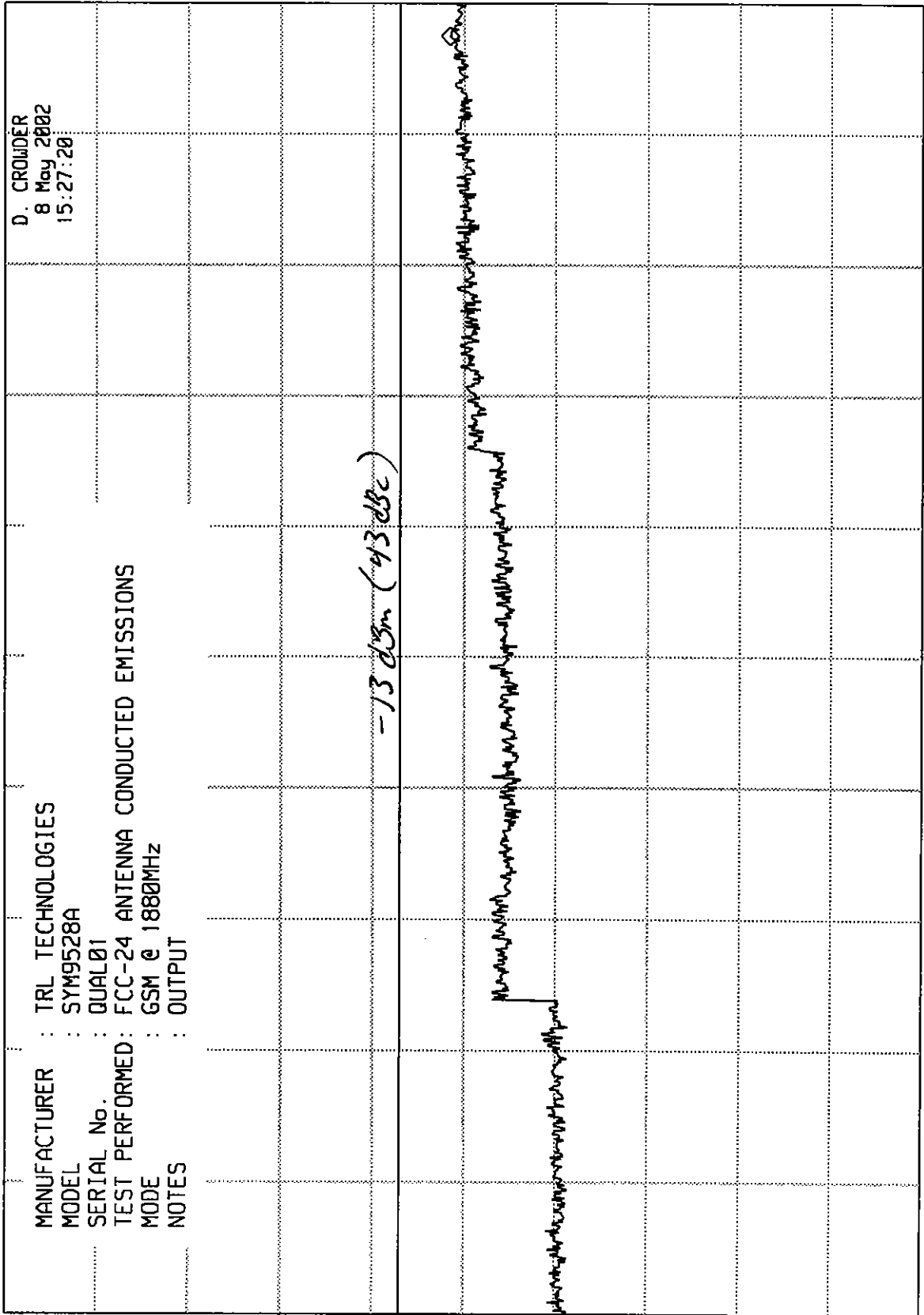
-10.0

dB

DL

-53.0

dBm



ELITE ELECTRONIC ENGINEERING CO

MKR 572.2 MHz  
-64.10 dBm

REF 7.0 dBm ATTN 30 dB + 40 dB Ext

|                                                     |            |
|-----------------------------------------------------|------------|
| MANUFACTURER : TRL TECHNOLOGIES                     | D. CROWDER |
| MODEL : SYM9528A                                    | 8 May 2002 |
| SERIAL No. : QUAL01                                 | 15:53:35   |
| TEST PERFORMED : FCC-24 ANTENNA CONDUCTED EMISSIONS |            |
| MODE : CDMA @ 1800MHz                               |            |
| NOTES : INPUT                                       |            |

hp 10 dB/  
OFFSET -10.0 dB  
DL -53.0 dBm

START 30 MHz RES BW 100 kHz (i) STOP 1.000 GHz  
UBW 1 MHz SWP 728 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 1.880 GHz  
-22.90 dBm

REF 0.0 dBm ATTN 20 dB + 40 dB Ext

hp

10 dB/

OFFSET

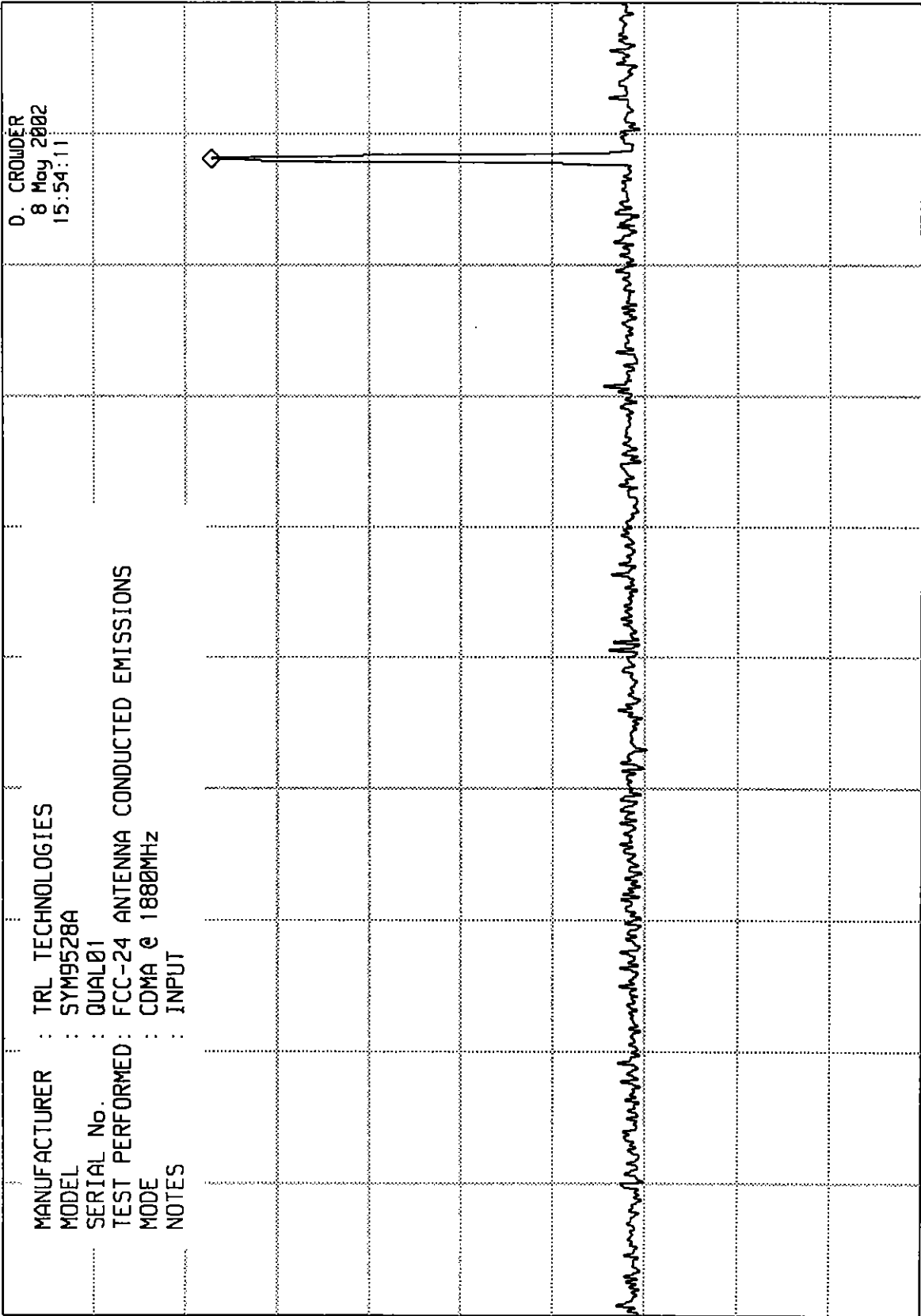
-10.0

dB

DL

-53.0

dBm



START 1.00 GHz STOP 2.00 GHz  
RES BW 1 MHz (i) VBW 3 MHz SWP 25.0 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 17.68 GHz  
-57.90 dBm

REF -10.0 dBm      ATTN 10 dB + 40 dB Ext

hp

10 dB/

OFFSET

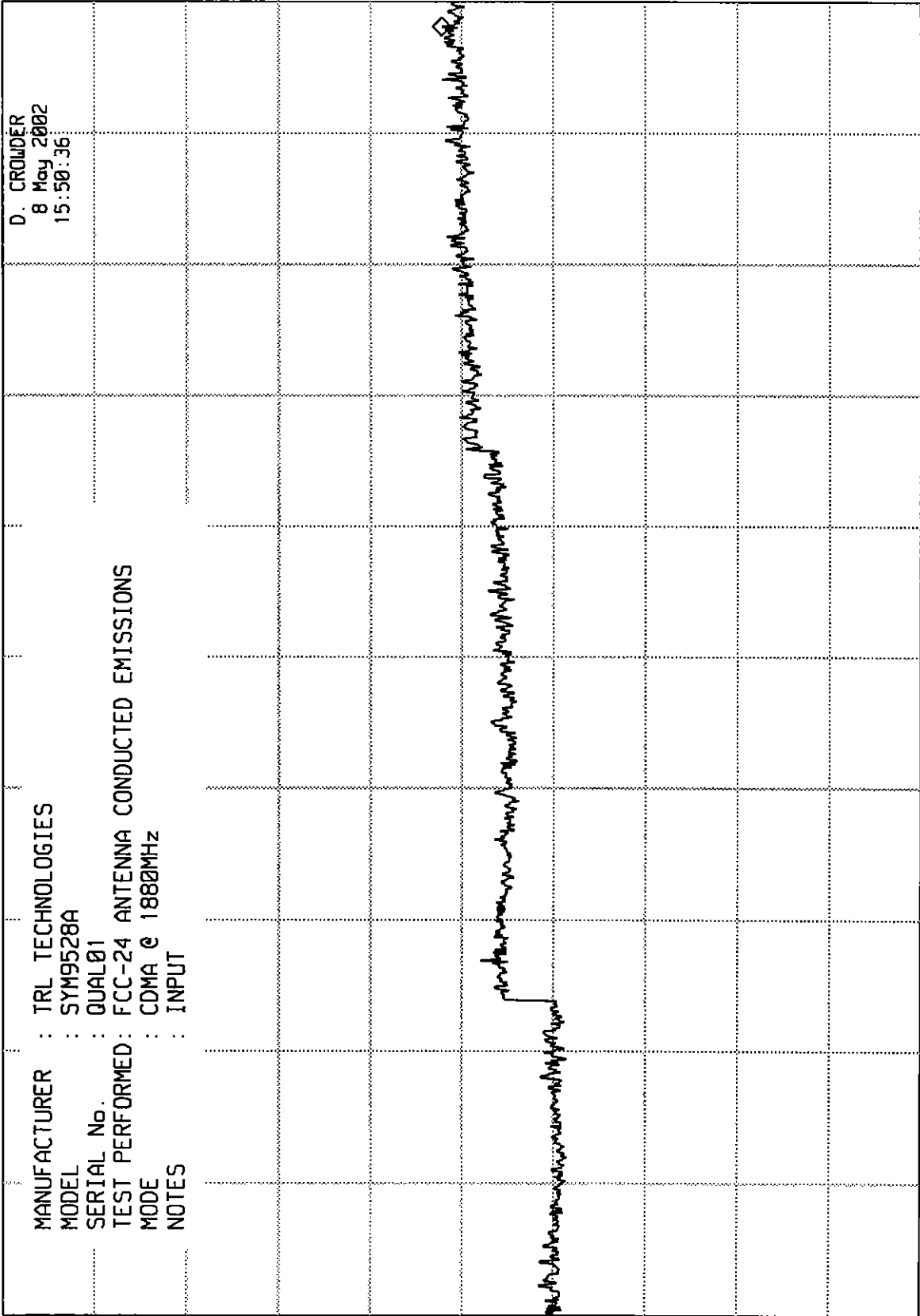
-10.0

dB

DL

-53.0

dBm



STOP 18.0 GHz  
SWP 400 msec

UBW 3 MHz

START 2.0 GHz  
RES BW 1 MHz (i)

ELITE ELECTRONIC ENGINEERING CO

MKR 604.2 MHz  
-63.80 dBm

REF 7.0 dBm ATTN 30 dB +40 dB 50F

25

10 dB/

OFFSET

-10.0

 $\frac{B}{R}$ 

70

-53.0 dBm

```
MANUFACTURER : TRL TECHNOLOGIES
MODEL : SYM9528A
SERIAL No. : QUAL01
TEST PERFORMED: FCC-24 ANTENNA C
MODE : CDMA @ 1800MHz
NOTES : OUTPUT
```

D. CROWDER  
8 May 2002  
15:48:48

$-13 \text{ dBm}$  (40 dBc)

Data Page 136 of 198

```

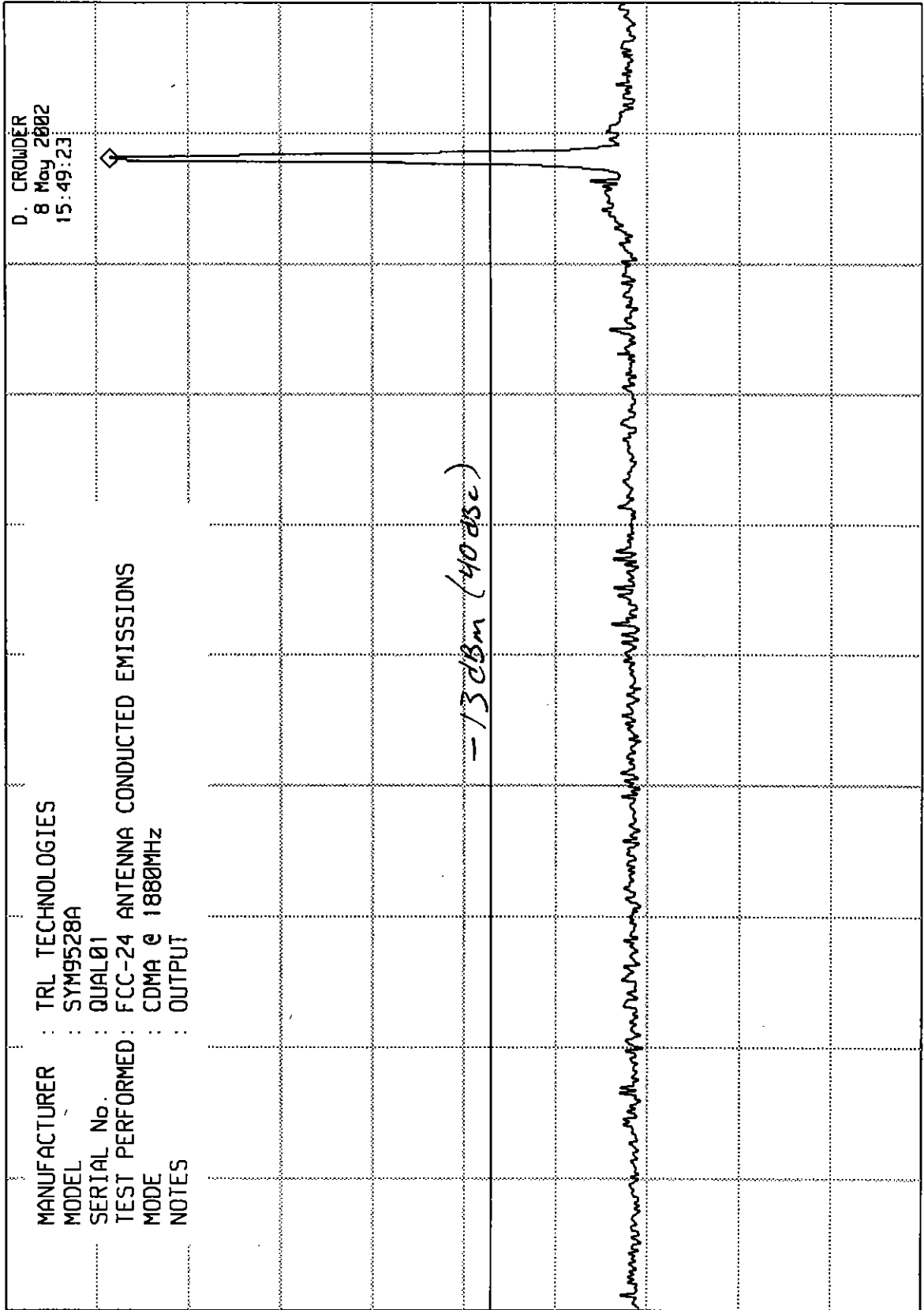
START 30 MHz      STOP 1.000 GHz
RES BW 100 kHz(i)  SWP 728 msec
VBW 1 MHz

```

ELITE ELECTRONIC ENGINEERING CO

MKR 1.880 GHz  
-11.50 dBm

REF 0.0 dBm ATTN 20 dB + 40 dB EXT



hp 10 dB/  
OFFSET -10.0 dB  
DL -53.0 dBm

START 1.00 GHz RES BW 1 MHz (i) STOP 2.00 GHz  
UBW 3 MHz SWP 25.0 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 13.60 GHz  
-57.70 dBm

REF -10.0 dBm ATTN 10 dB +40 dB Ext

hp

10 dB/

OFFSET

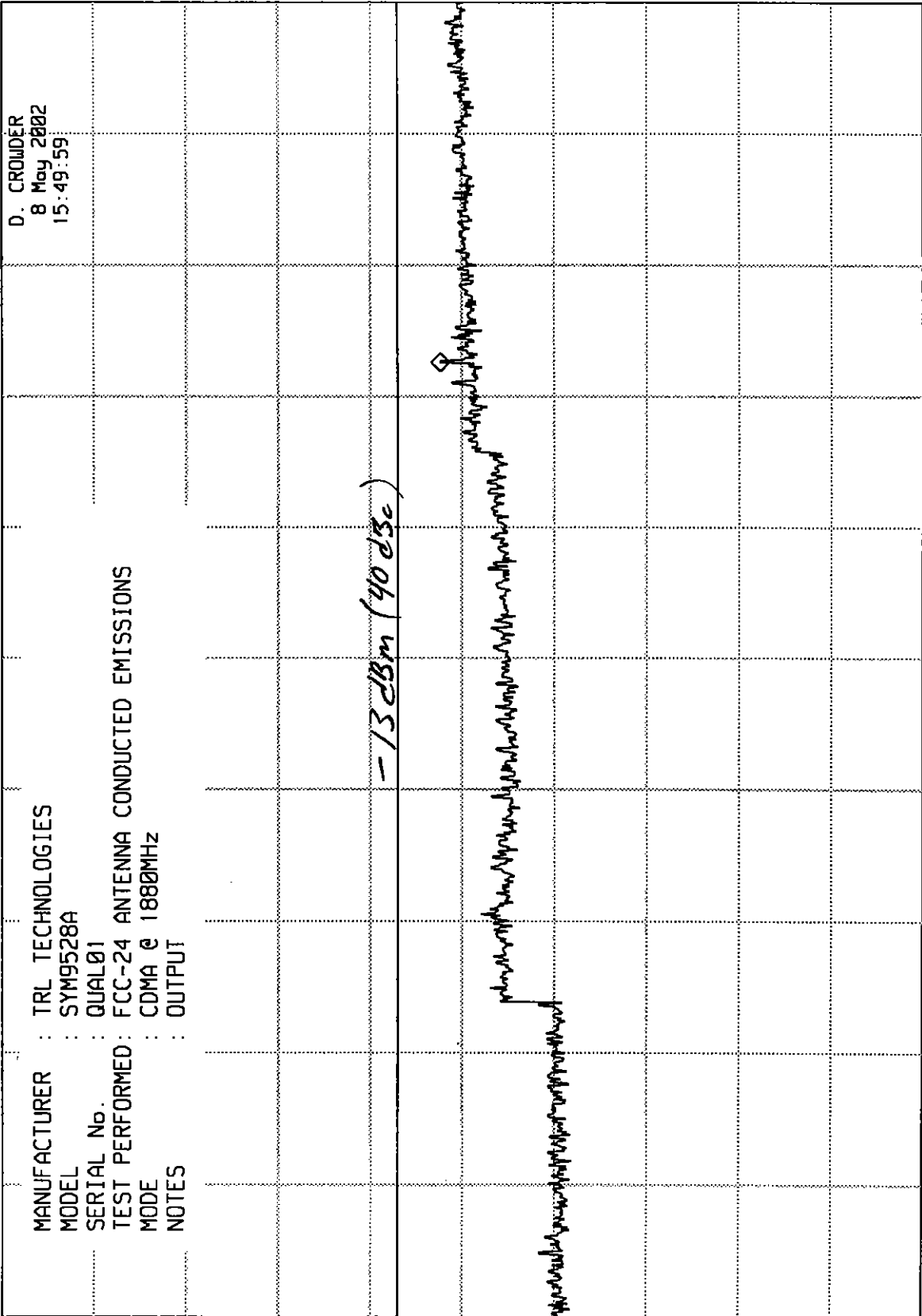
-10.0

dB

DL

-53.0

dBm



START 2.0 GHz RES BW 1 MHz (i) STOP 18.0 GHz  
UBW 3 MHz SWP 400 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 830.3 MHz  
-64.20 dBm

REF 7.0 dBm ATTN 20 dB + 40 dB EXT

hp

10 dB/

OFFSET

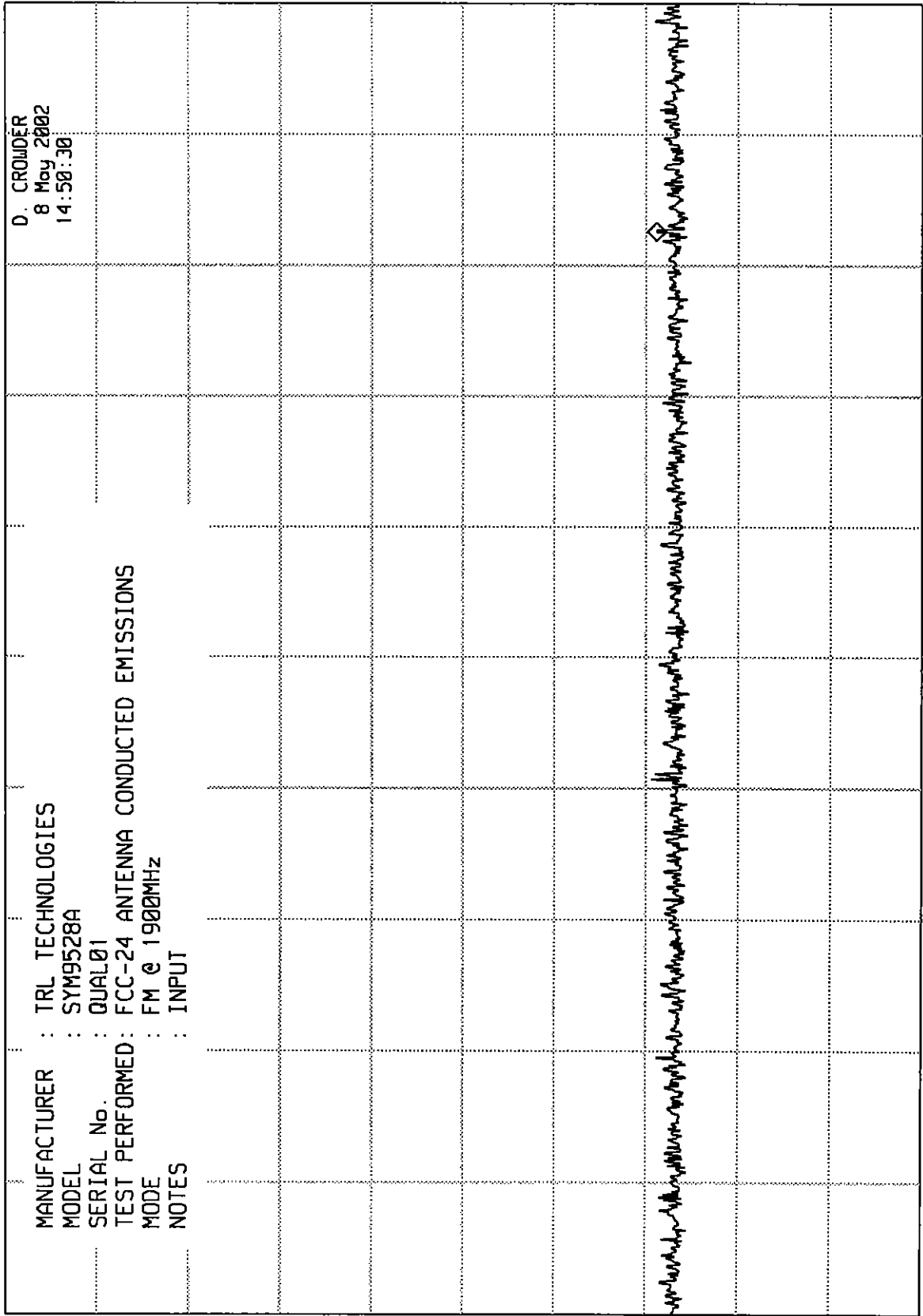
-10.0

dB

DL

-53.0

dBm



START 30 MHz RES BW 100 kHz (i) STOP 1.000 GHz  
UBW 1 MHz SWP 728 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 1.899 GHz  
-25.00 dBm

ATTEN 20 dB + 40 dB Ext

REF 0.0 dBm

hp

10 dB/

OFFSET

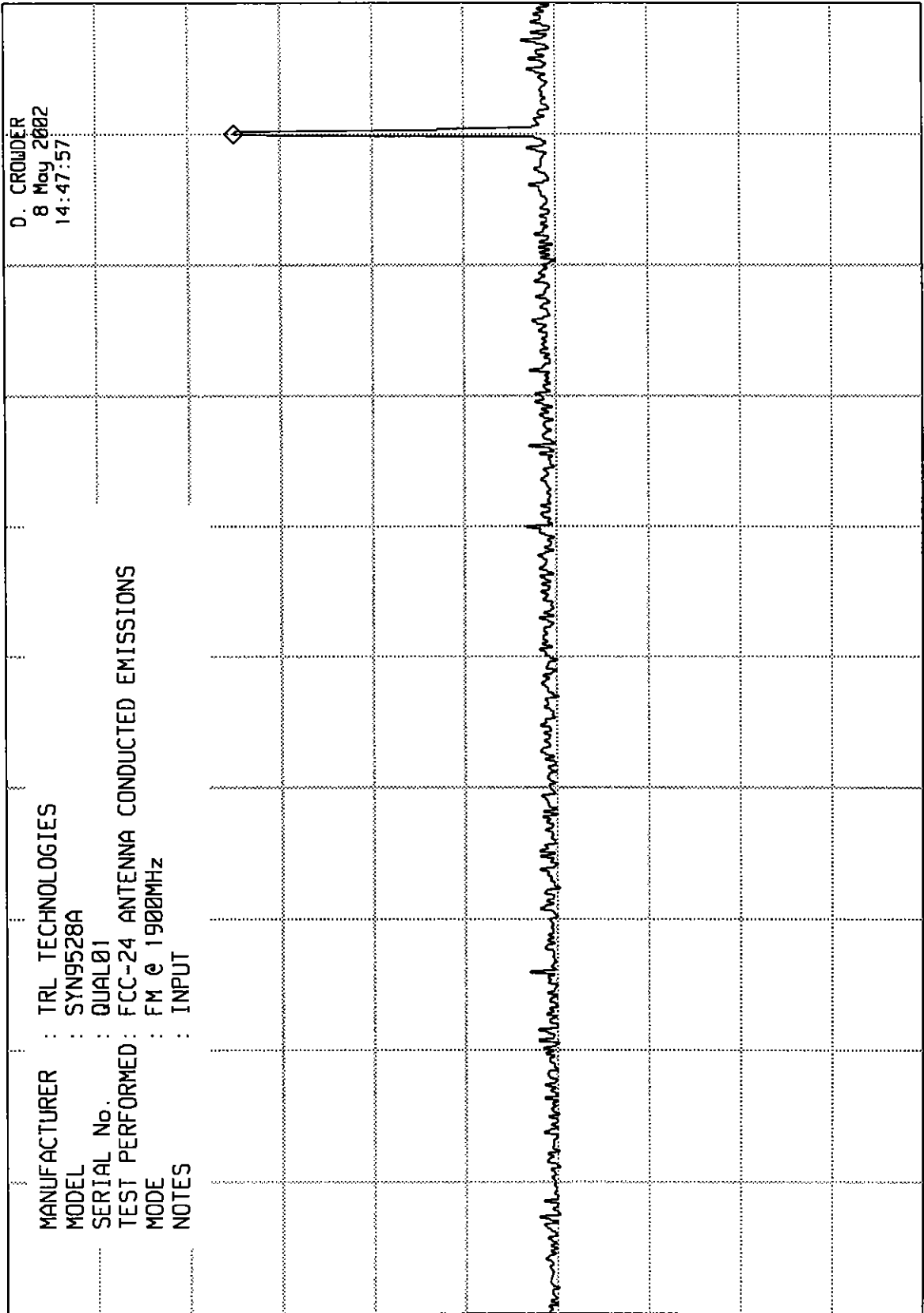
-10.0

dB

DL

-53.0

dBm



START 1.00 GHz  
RES BW 1 MHz (i)  
STOP 2.00 GHz  
SWP 25.0 msec  
VBW 3 MHz

ELITE ELECTRONIC ENGINEERING CO

MKR 17.57 GHz  
-58.00 dBm

REF -10.0 dBm ATTEN 10 dB + 40 dB EXT

hp

10 dB/

OFFSET

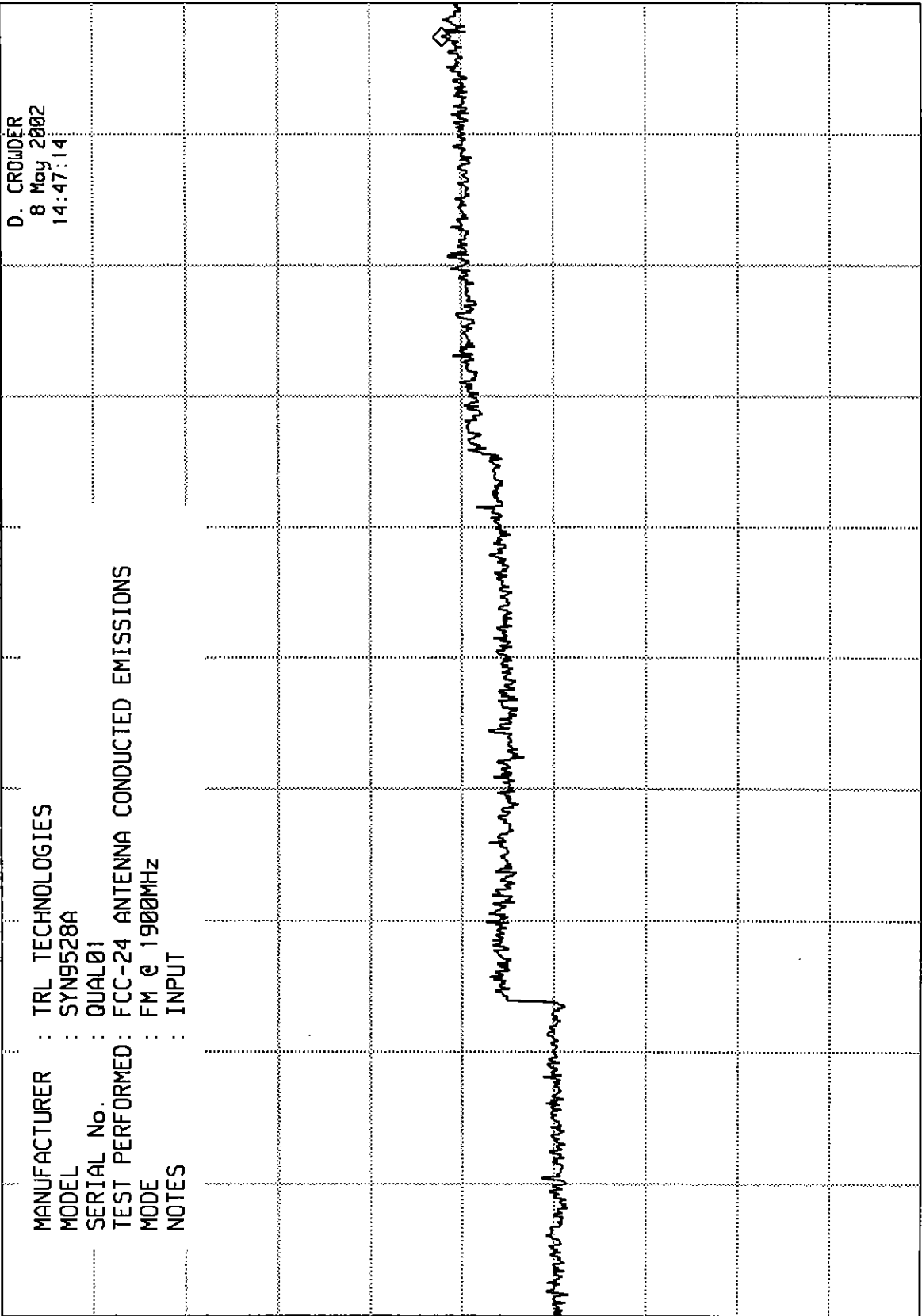
-10.0

dB

DL

-53.0

dBm



START 2.0 GHz RES BW 1 MHz (i) STOP 18.0 GHz  
UBW 3 MHz SWP 400 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 338.5 MHz  
-63.40 dBm

hp

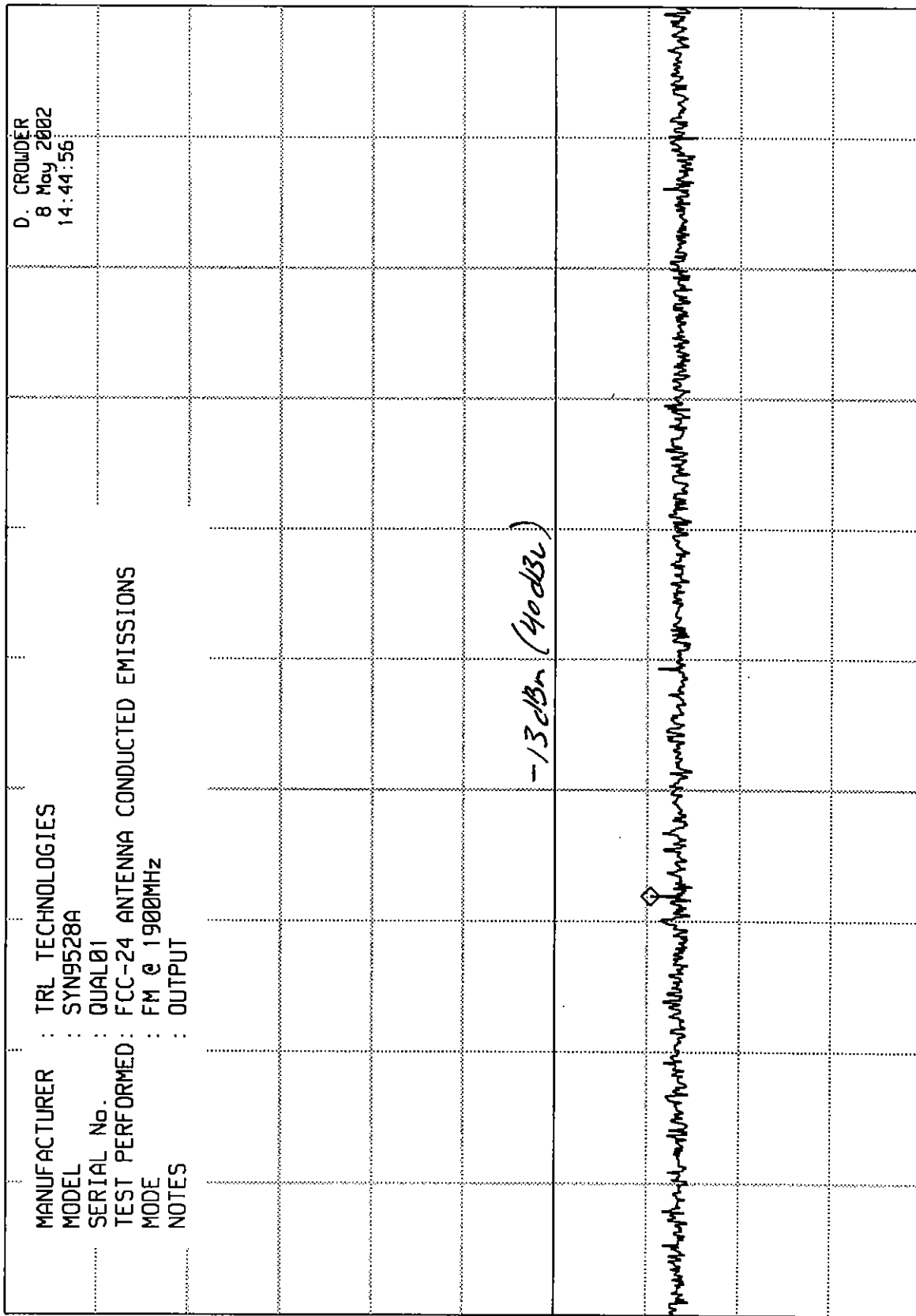
REF 7.0 dBm

ATTEN 30 dB + 40 dB EXT

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm



START 30 MHz      RES BW 100 kHz (i)      VBW 1 MHz      STOP 1.000 GHz  
SWP 728 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 1.899 GHz  
-12.50 dBm

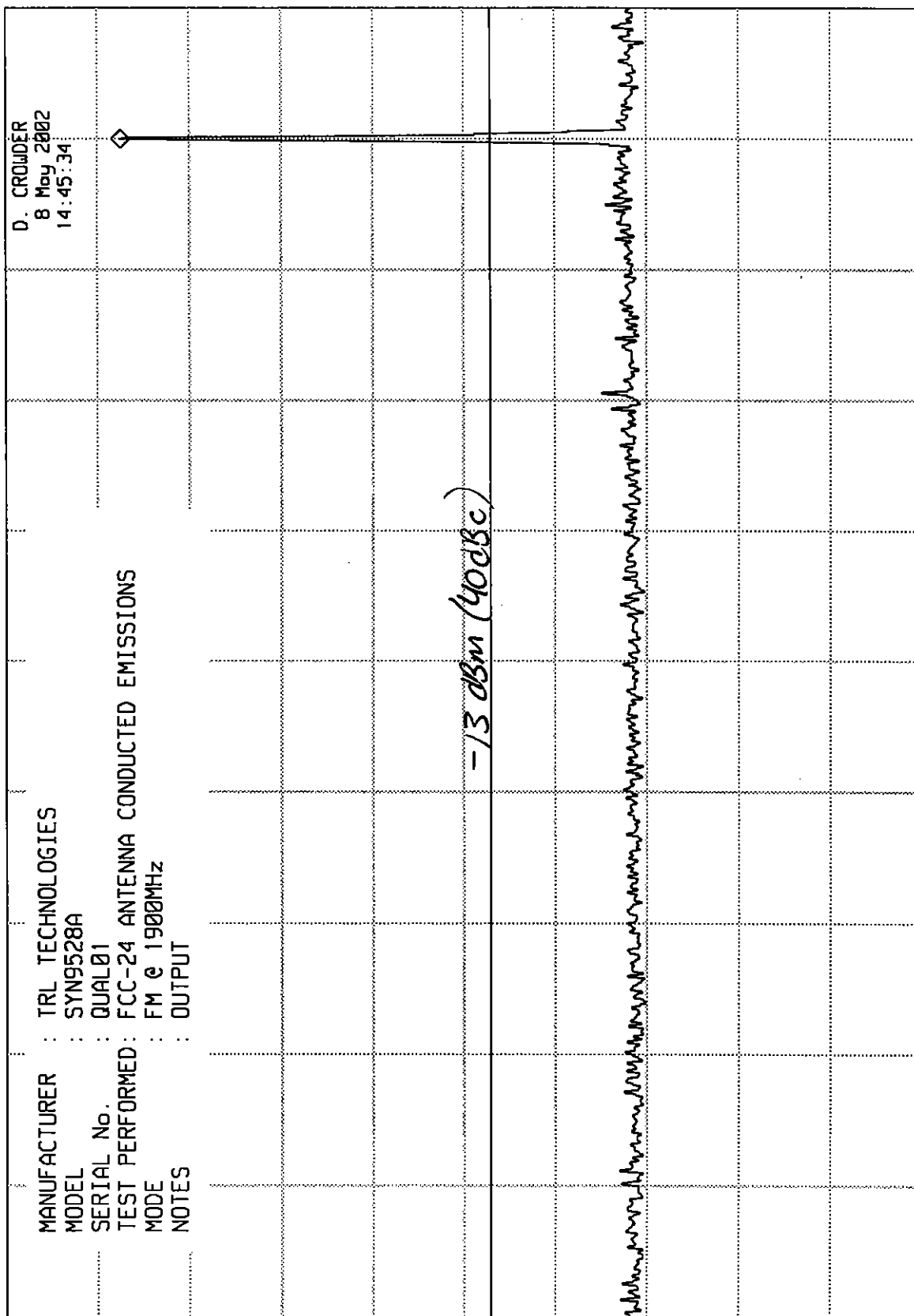
REF 0.0 dBm      ATTN 20 dB + 40 dB *5.17*

hp

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm



START 1.00 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 2.00 GHz  
SWP 25.0 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 16.70 GHz  
-57.90 dBm

REF -10.0 dBm      ATTN 10 dB + 40 dB Ext

hp

10 dB/

OFFSET

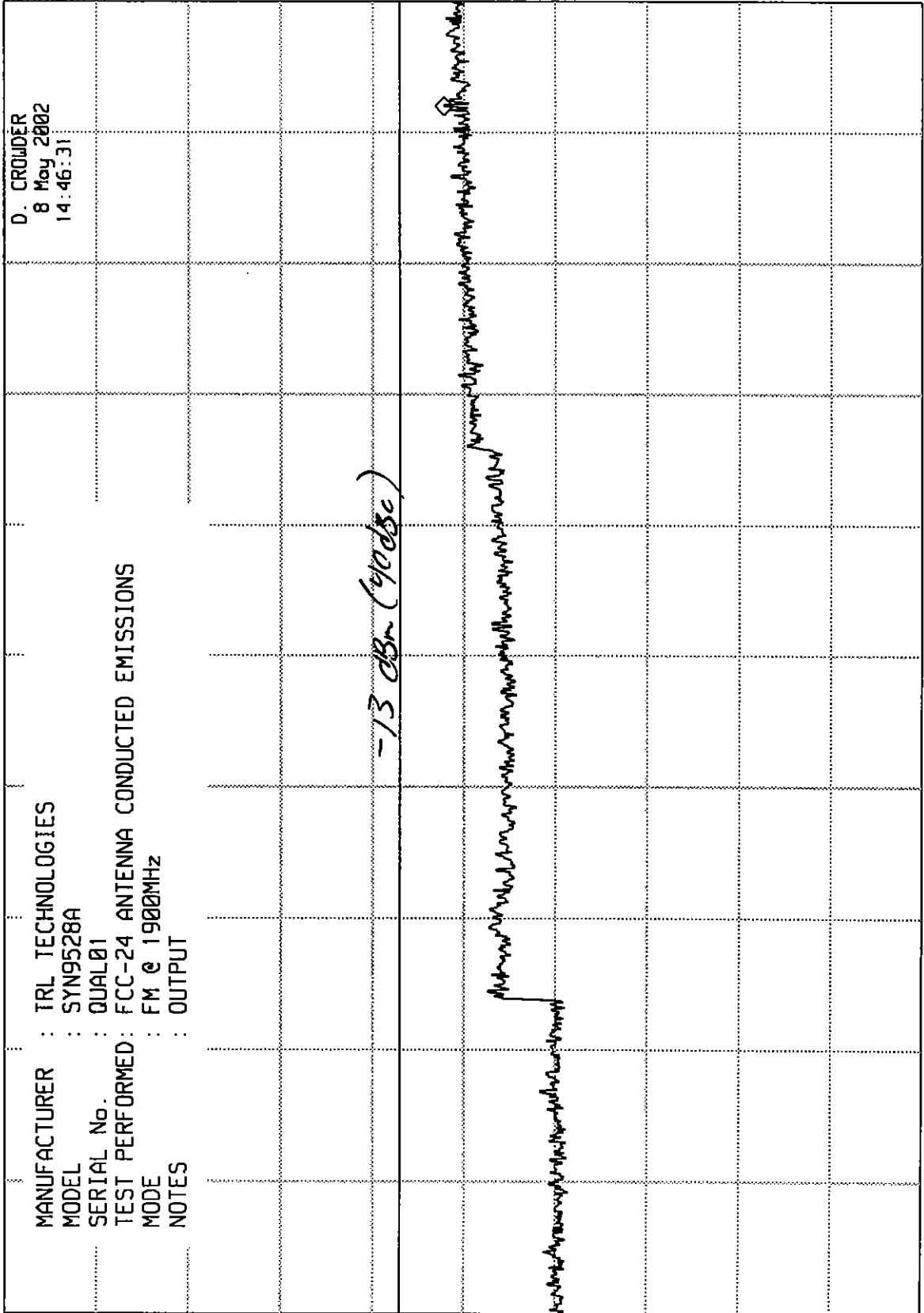
-10.0

dB

DL

-53.0

dBm



MANUFACTURER : TRL TECHNOLOGIES

MODEL : SYN9528A

SERIAL No. : QJAL01

TEST PERFORMED : FCC-24 ANTENNA CONDUCTED EMISSIONS

MODE : FM @ 1900MHz

NOTES : OUTPUT

D. CROWDER  
8 May 2002  
14:46:31

START 2.0 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 18.0 GHz  
SWP 400 msec

ATTEN 20 dB SP ON + 40 dB IFF

REF 7.0 dBm

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm

```
MANUFACTURER : TRL TECHNOLOGIES
MODEL : SYM9528A
SERIAL No. : QUAL01
TEST PERFORMED: FCC-24 ANTENNA CO
MODE : NADC @ 1900MHz
NOTES : INPUT
```

D. CROWDER  
8 May 2002  
15:00:09

```

START 30 MHz      STOP 1.000 GHz
RES BW 100 kHz(:)  SWP 728 msec
                  VBW 1 MHz

```

# ELITE ELECTRONIC ENGINEERING CO

MKR 1.899 GHz  
-22.60 dBm

REF 0.0 dBm      ATTN 20 dB + 40 dB EXT

hp

10 dB/

OFFSET

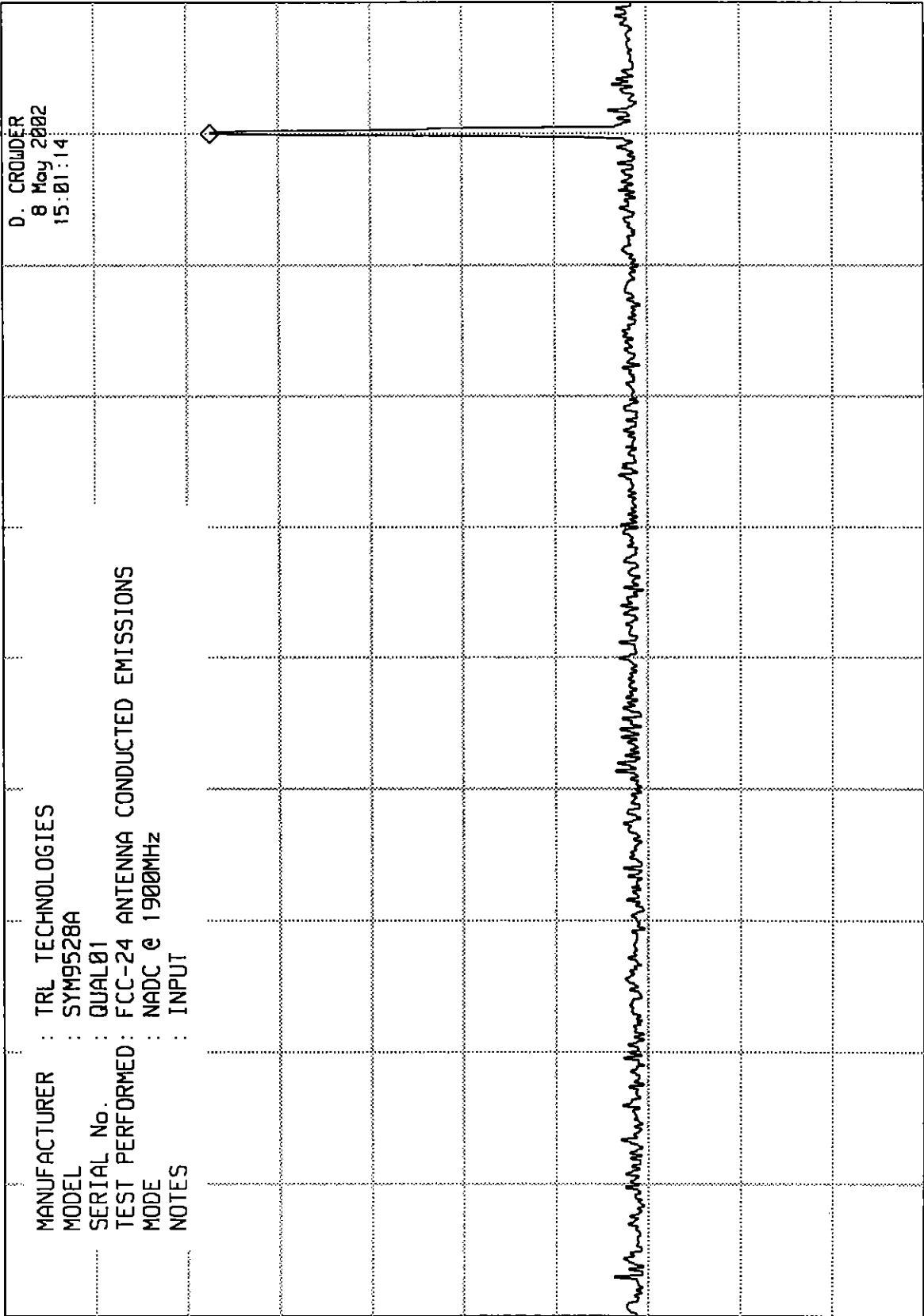
-10.0

dB

DL

-53.0

dBm



START 1.00 GHz      RES BW 1 MHz(i)      STOP 2.00 GHz  
UBW 3 MHz      SWP 25.0 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 17.46 GHz  
-58.10 dBm

REF -10.0 dBm      ATTN 10 dB + 40 dB Ext

hp

10 dB/

OFFSET

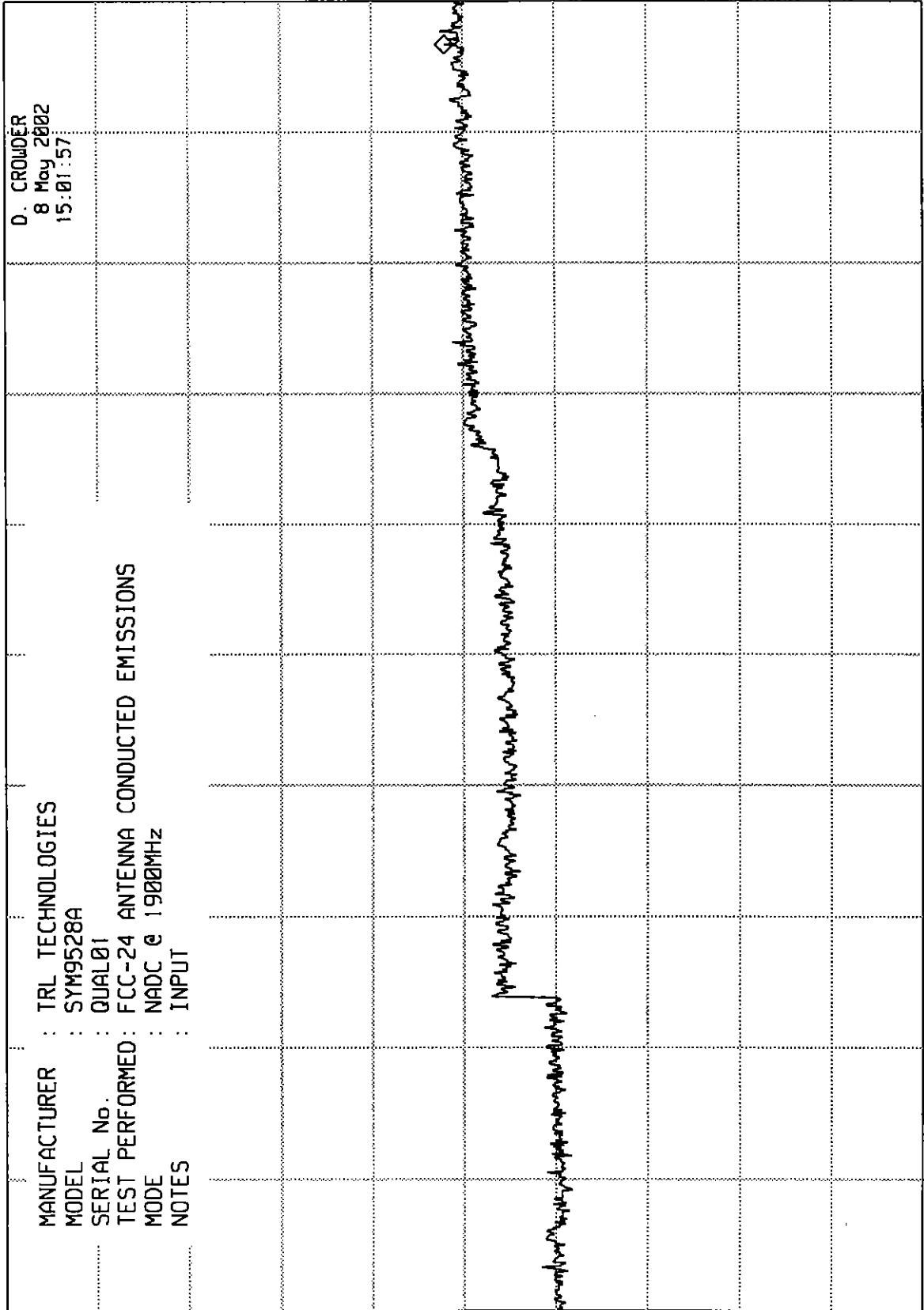
-10.0

dB

DL

-53.0

dBm



START 2.0 GHz      RES BW 1 MHz(i)      VBW 3 MHz      STOP 18.0 GHz  
SWP 400 msec

25

ATTEN 30 dB 440 dB EXT

MANUFACTURER : TRL TECHNOLOGIES

: SYM9528A

: QUAL01

# OFFSET

MODE : NADC @ 1900MHZ

**OUTPUT**

-53.0 dBm

START 30 MHZ

VBW 1 MHz

STOP 1.000 GHz  
SWP 728 msec

[illegible]

ELITE ELECTRONIC ENGINEERING CO

MKR 1.899 GHz  
-11.40 dBm

REF 0.0 dBm      ATTN 20 dB + 40 dB EXT

hp

10 dB/

OFFSET

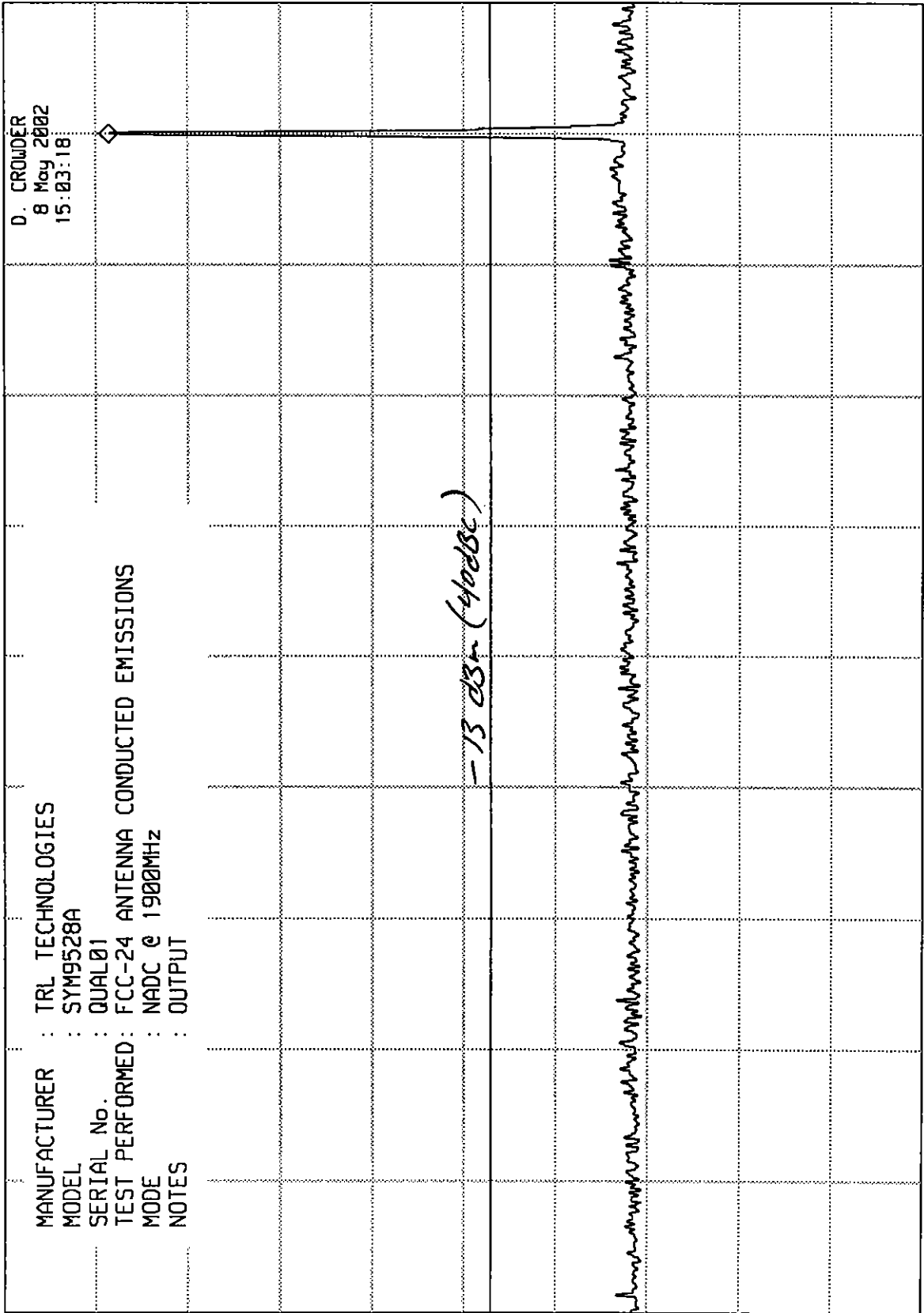
-10.0

dB

DL

-53.0

dBm



START 1.00 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 2.00 GHz  
SWP 25.0 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 17.55 GHz  
-57.30 dBm

REF -10.0 dBm      ATTN 10 dB +40 dB Ext

hp

10 dB/

OFFSET

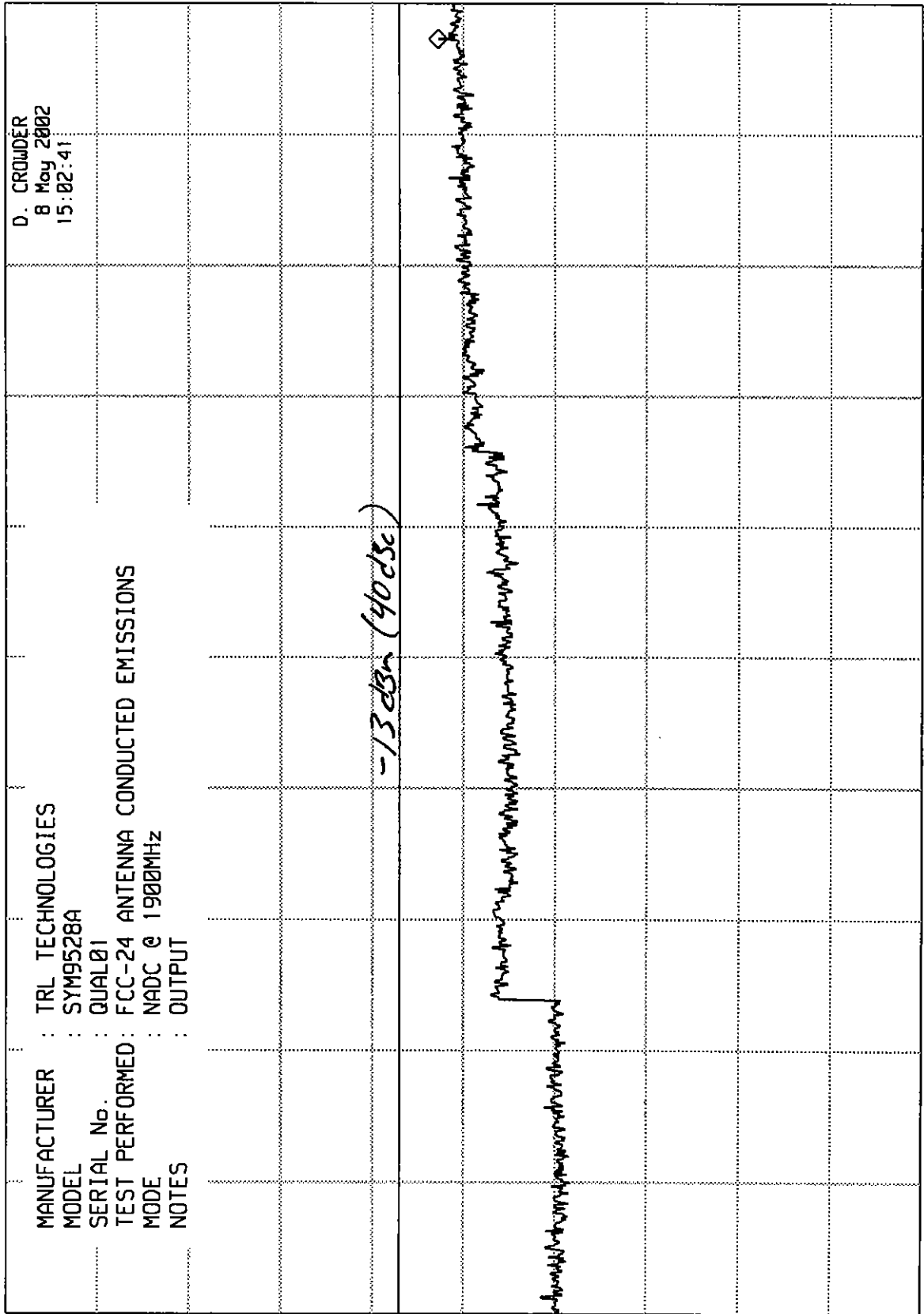
-10.0

dB

DL

-53.0

dBm



START 2.0 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 18.0 GHz  
SWP 400 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 960.2 MHz  
-64.60 dBm

REF 7.0 dBm      ATTN 30 dB + 40 dB EXT

hp

10 dB/

OFFSET

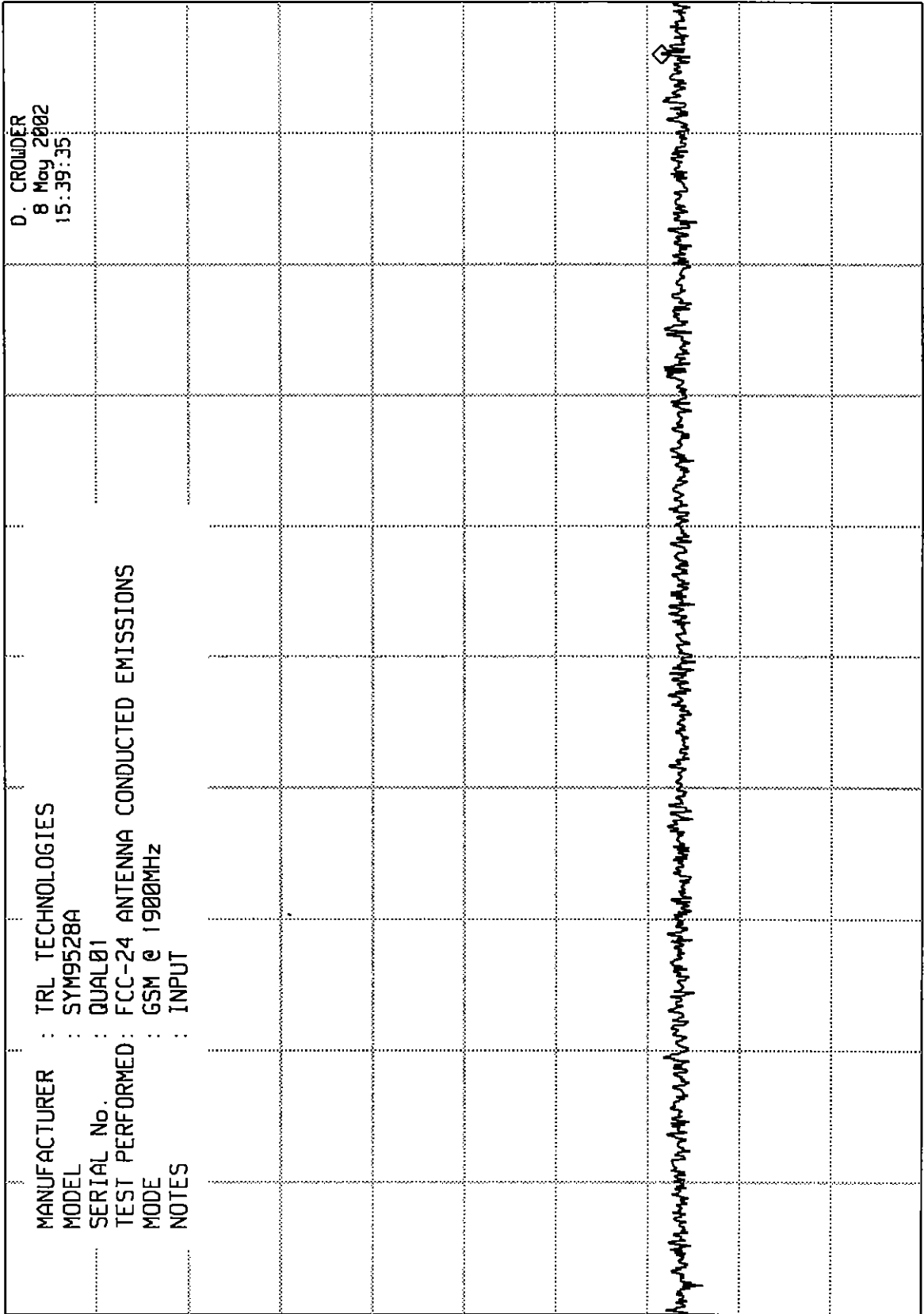
-10.0

dB

DL

-53.0

dBm



START 30 MHz      RES BW 100 kHz (i)      VBW 1 MHz      STOP 1.000 GHz  
SWP 728 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 1.899 GHz  
-21.80 dBm

REF 0.0 dBm      ATTN 20 dB + 40 dB EXT

hp

10 dB/

OFFSET

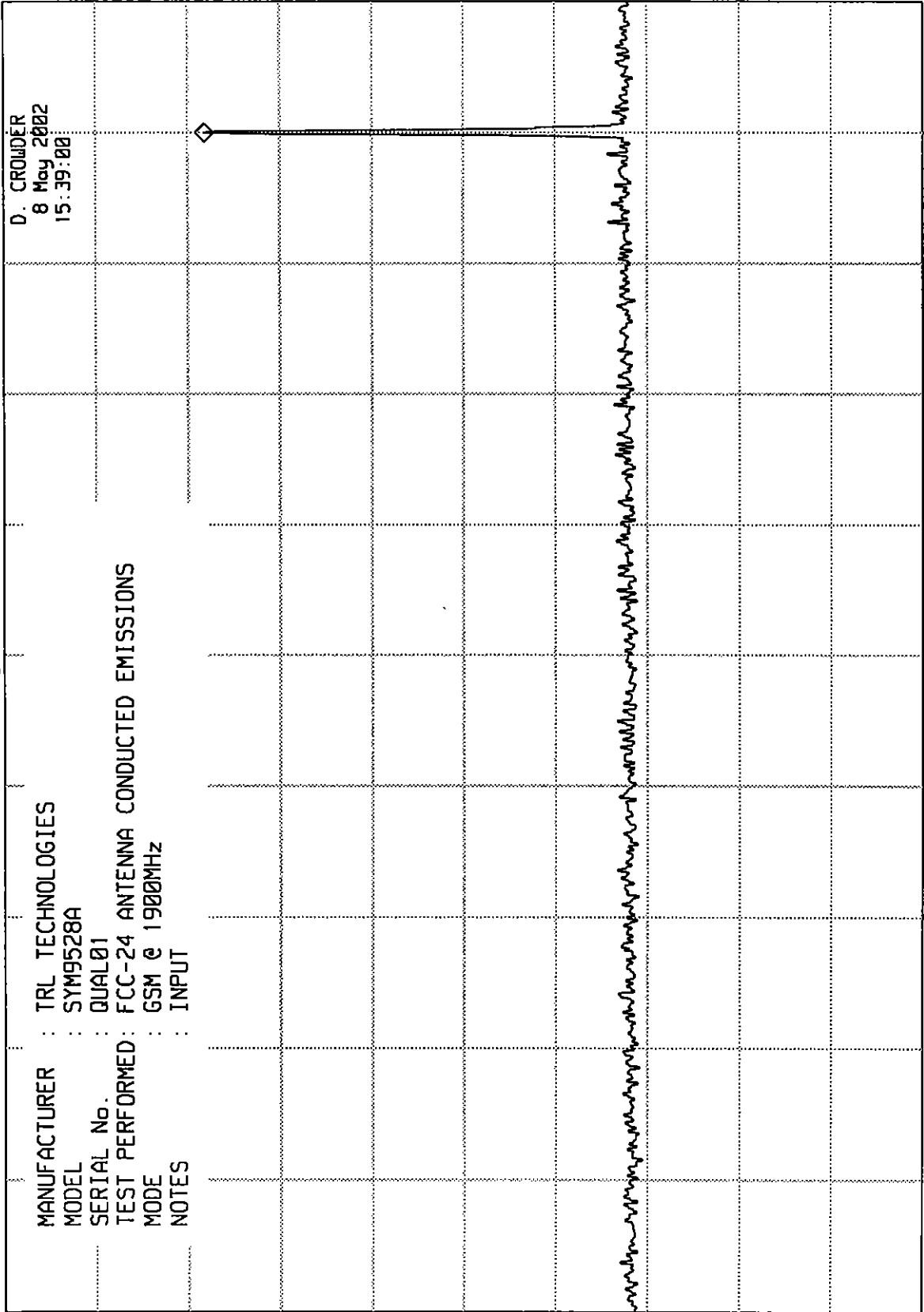
-10.0

dB

DL

-53.0

dBm



START 1.00 GHz      RES BW 1 MHz(i)      STOP 2.00 GHz  
UBW 3 MHz      SWP 25.0 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 17.57 GHz  
-58.30 dBm

REF -10.0 dBm ATTEN 10 dB + 40 dB Ex7

hp

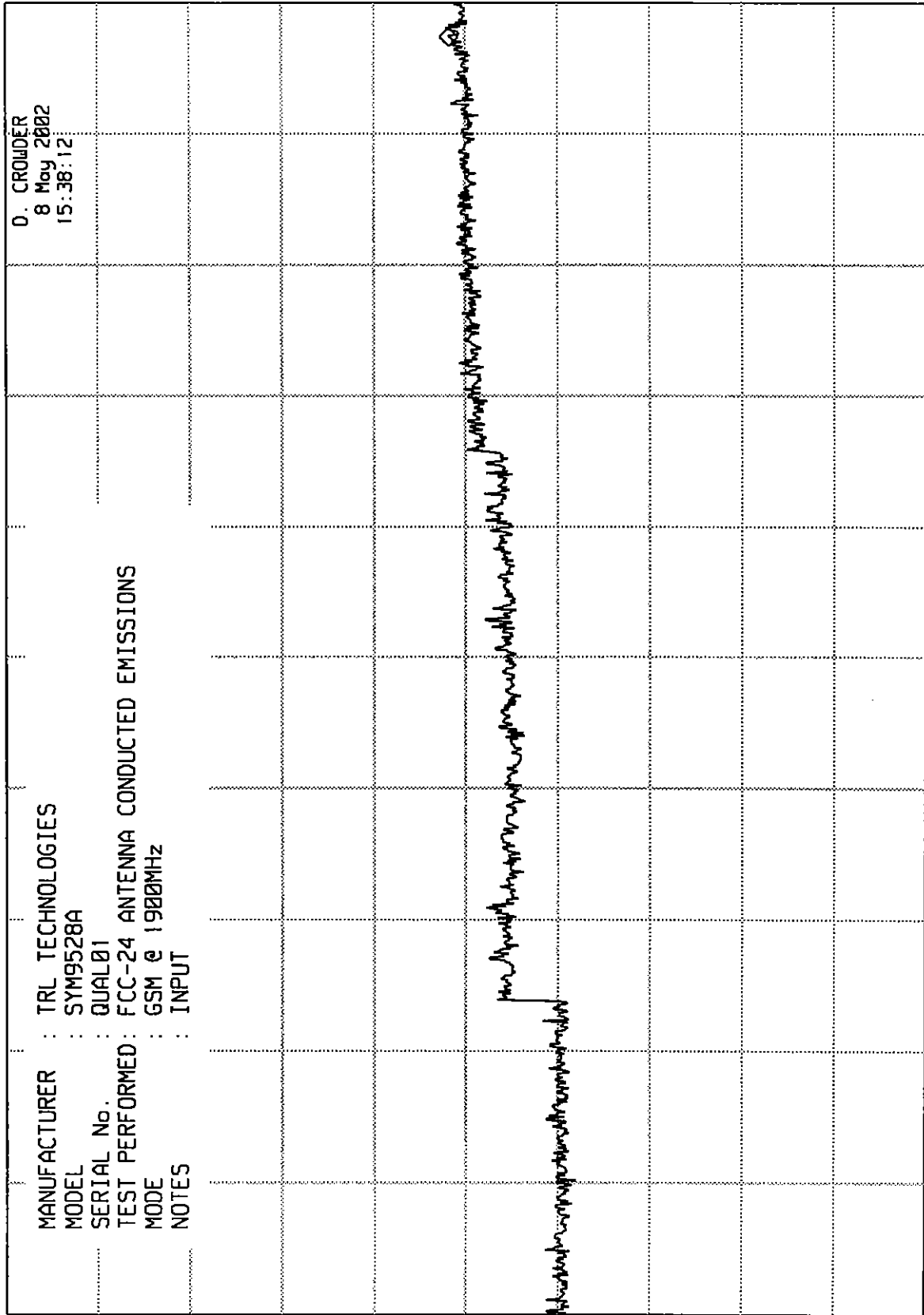
10 dB/

OFFSET

-10.0  
dB

DL

-53.0  
dBm



START 2.0 GHz RES BW 1 MHz (i) UBW 3 MHz STOP 18.0 GHz SWP 400 msec

# ELITE ELECTRONIC ENGINEERING CO

MKR 482.0 MHz  
-63.90 dBm

REF 7.0 dBm ATTN 30 dB +40 dB EXT

hp

10 dB/

OFFSET

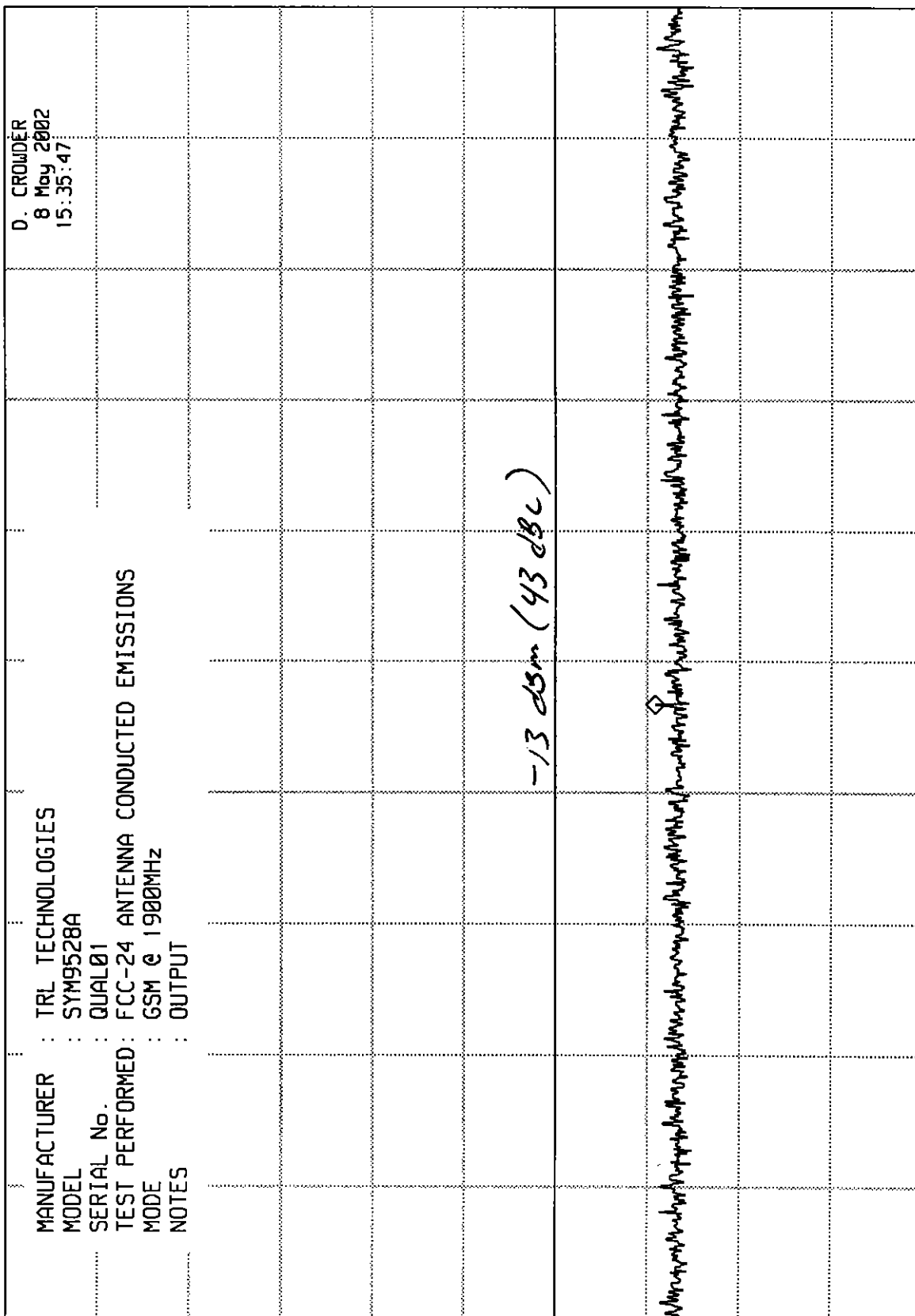
-10.0

dB

DL

-53.0

dBm



START 30 MHz RES BW 100 kHz (i) STOP 1.000 GHz  
UBW 1 MHz SWP 728 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 1.899 GHz  
-10.60 dBm

REF 0.0 dBm      ATTN 20 dB + 40 dB Ext

hp

10 dB/

OFFSET

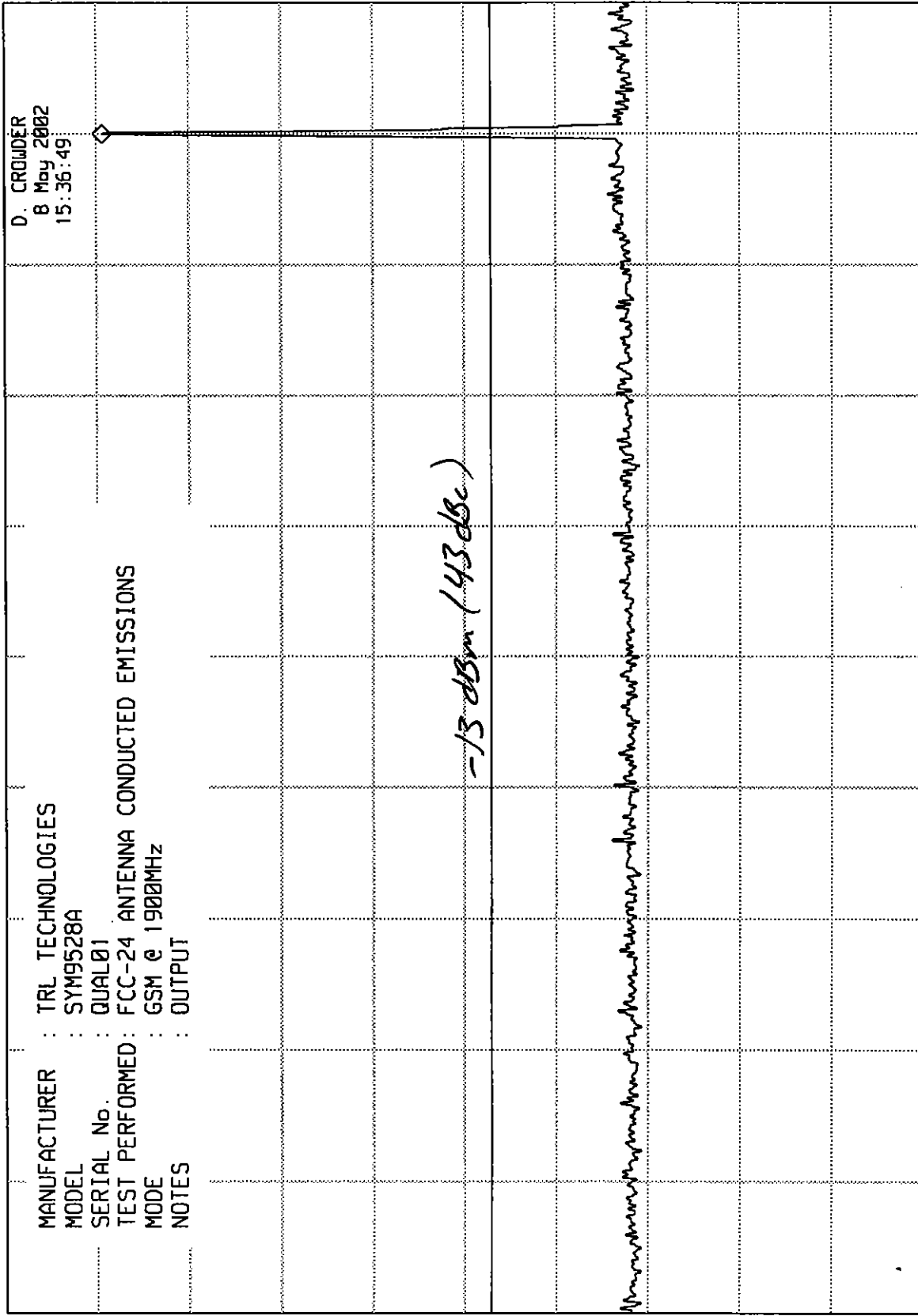
-10.0

dB

DL

-53.0

dBm



STOP 2.00 GHz  
SWP 25.0 msec

UBW 3 MHz

START 1.00 GHz  
RES BW 1 MHz (i)

ELITE ELECTRONIC ENGINEERING CO

MKR 16.67 GHz  
-58.00 dBm

REF -10.0 dBm ATTN 10 dB +40 dB Ext

hp

10 dB/

OFFSET

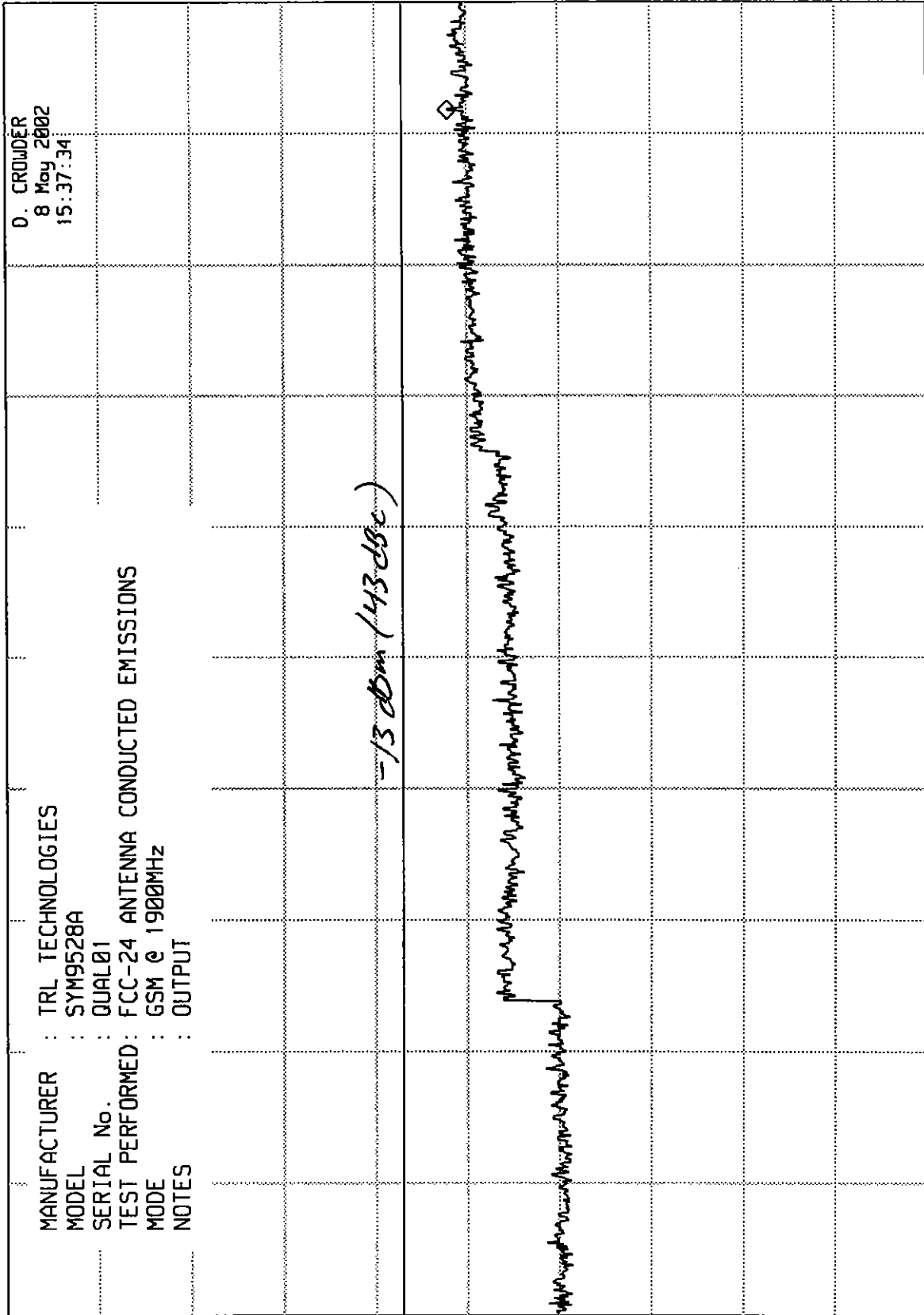
-10.0

dB

DL

-53.0

dBm



START 2.0 GHz RES BW 1 MHz (i) STOP 18.0 GHz  
UBW 3 MHz SWP 400 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 194.9 MHz  
-64.40 dBm

REF 7.0 dBm      ATTN 30 dB + 40 dB Ext

hp

10 dB/

OFFSET

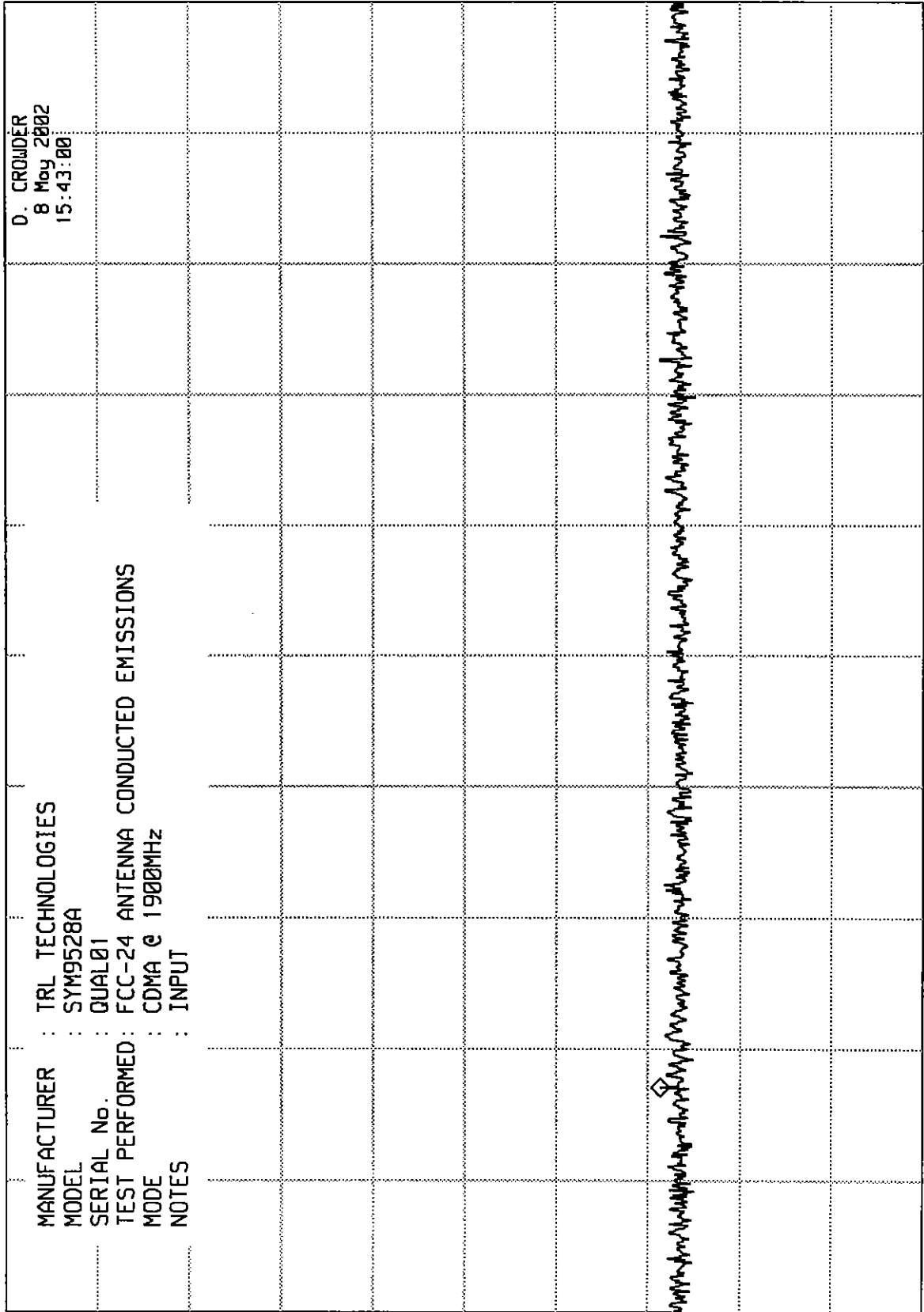
-10.0

dB

DL

-53.0

dBm



ELITE ELECTRONIC ENGINEERING CO

MKR 1.900 GHz  
-22.10 dBm

REF 0.0 dBm      ATTN 20 dB + 40 dB Ext

hp

10 dB/

OFFSET

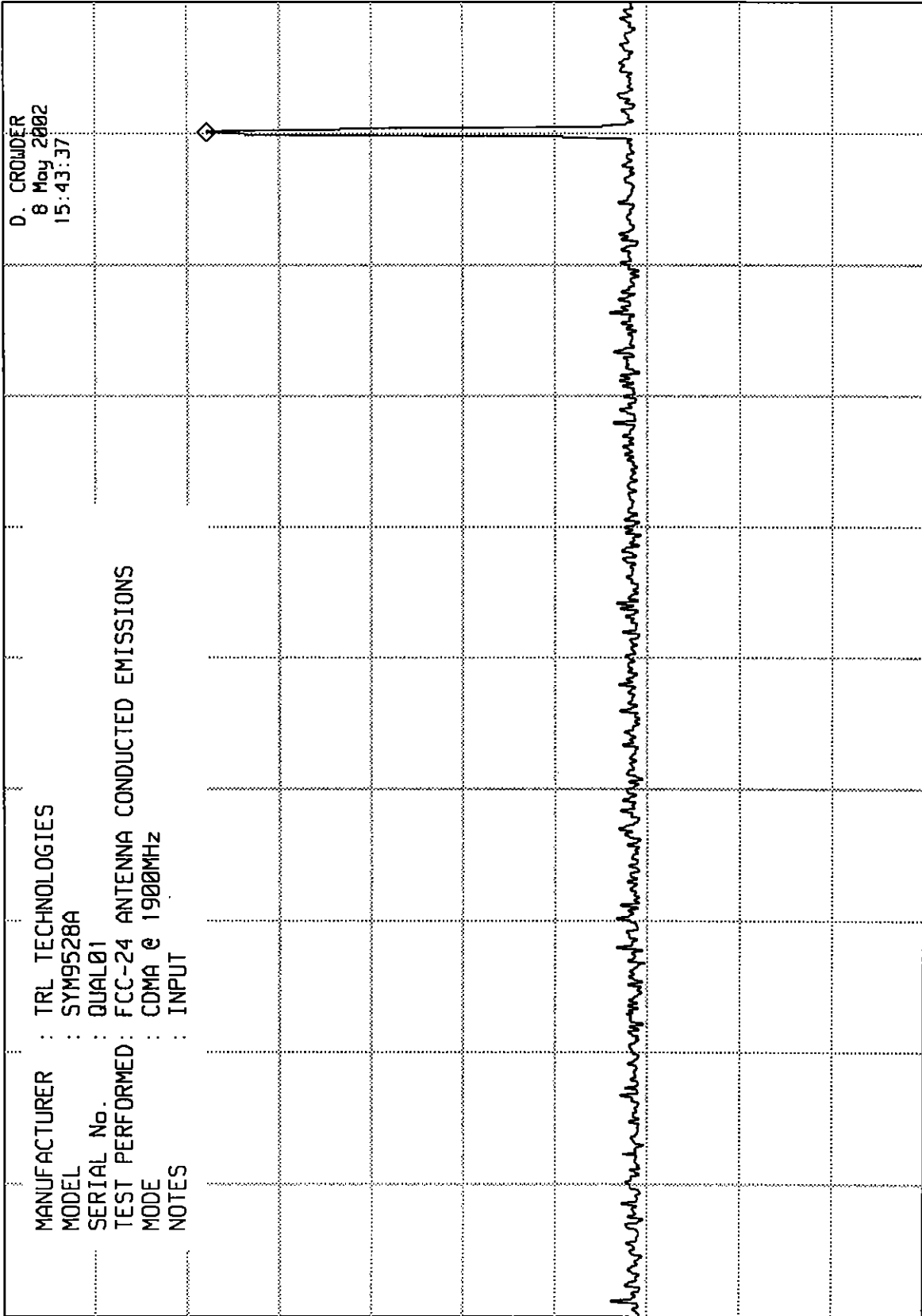
-10.0

dB

DL

-53.0

dBm



START 1.00 GHz      RES BW 1 MHz (i)      VBW 3 MHz      STOP 2.00 GHz  
SWP 25.0 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 17.54 GHz  
-57.80 dBm

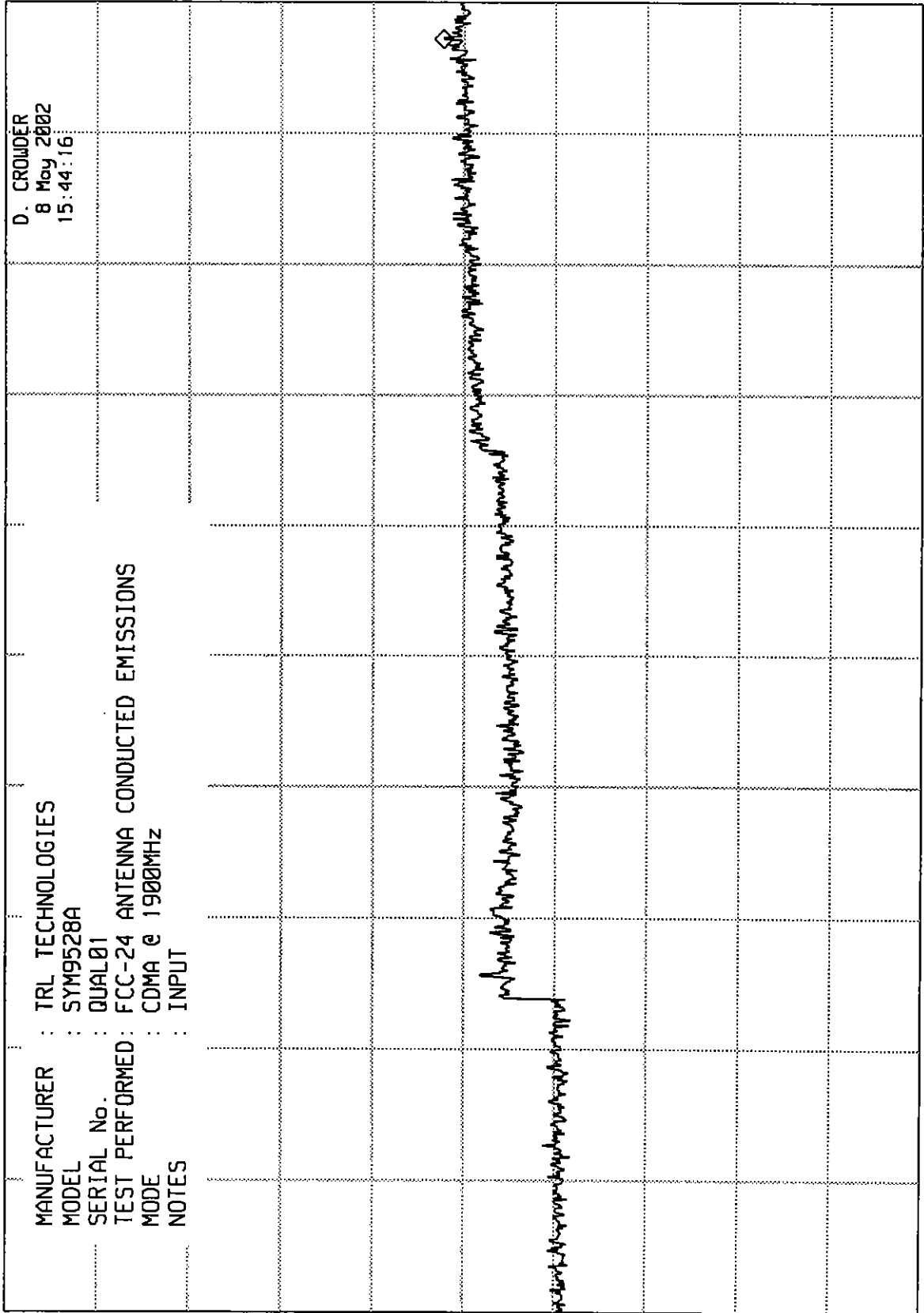
hp

REF -10.0 dBm      ATTN 10 dB +40 dB Ext

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm



START 2.0 GHz      RES BW 1 MHz(i)      VBW 3 MHz      STOP 18.0 GHz  
SWP 400 msec

MKR 514.0 MHz  
-66.40 dBm

2

REF 7.0 dBm

ATTEN 30 dB + 40 dB EXT

10 dB/

**MANUFACTURER : TRL TECHNOLOGIES**

MODEL : SYM9528A

SERIAL No. : QUAL01

SERIAL No. : Q04C01  
TEST PERFORMED: FCC-24 ANTENNA CONDUCTED EMISSIONS

MODE : CDMA @ 1900MHz

NOTES : OUTPUT

D. CROWDER  
8 May 2002  
15:46:15

OFFSET  
-10.0

 $\frac{B}{R}$ 

-53.0 dBm

-13 dBm (40 dBc)

Data Page 160 of 198

START 30 MHZ

RES BW 100 KHz(i)

VBW 1 MHz

STOP 1.000 GHz  
SWP 728 msec

ELITE ELECTRONIC ENGINEERING CO

MKR 1.900 GHz  
-11.80 dBm

hp

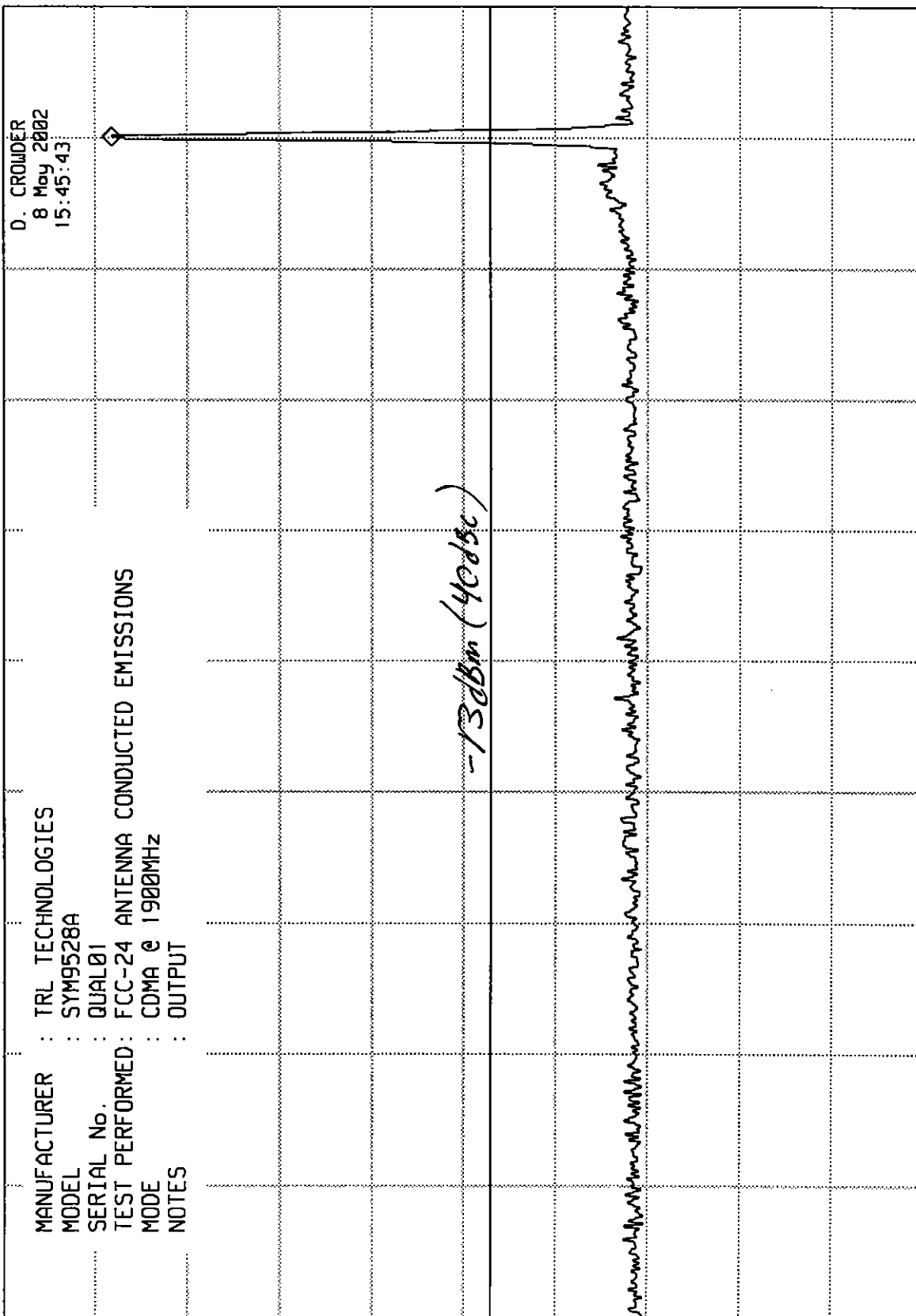
REF 0.0 dBm

ATTEN 20 dB +40 dB Ext

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm



START 1.00 GHz  
RES BW 1 MHz (i)  
STOP 2.00 GHz  
SWP 25.0 msec  
VBW 3 MHz

# ELITE ELECTRONIC ENGINEERING CO

MKR 17.55 GHz  
-58.00 dBm

hp

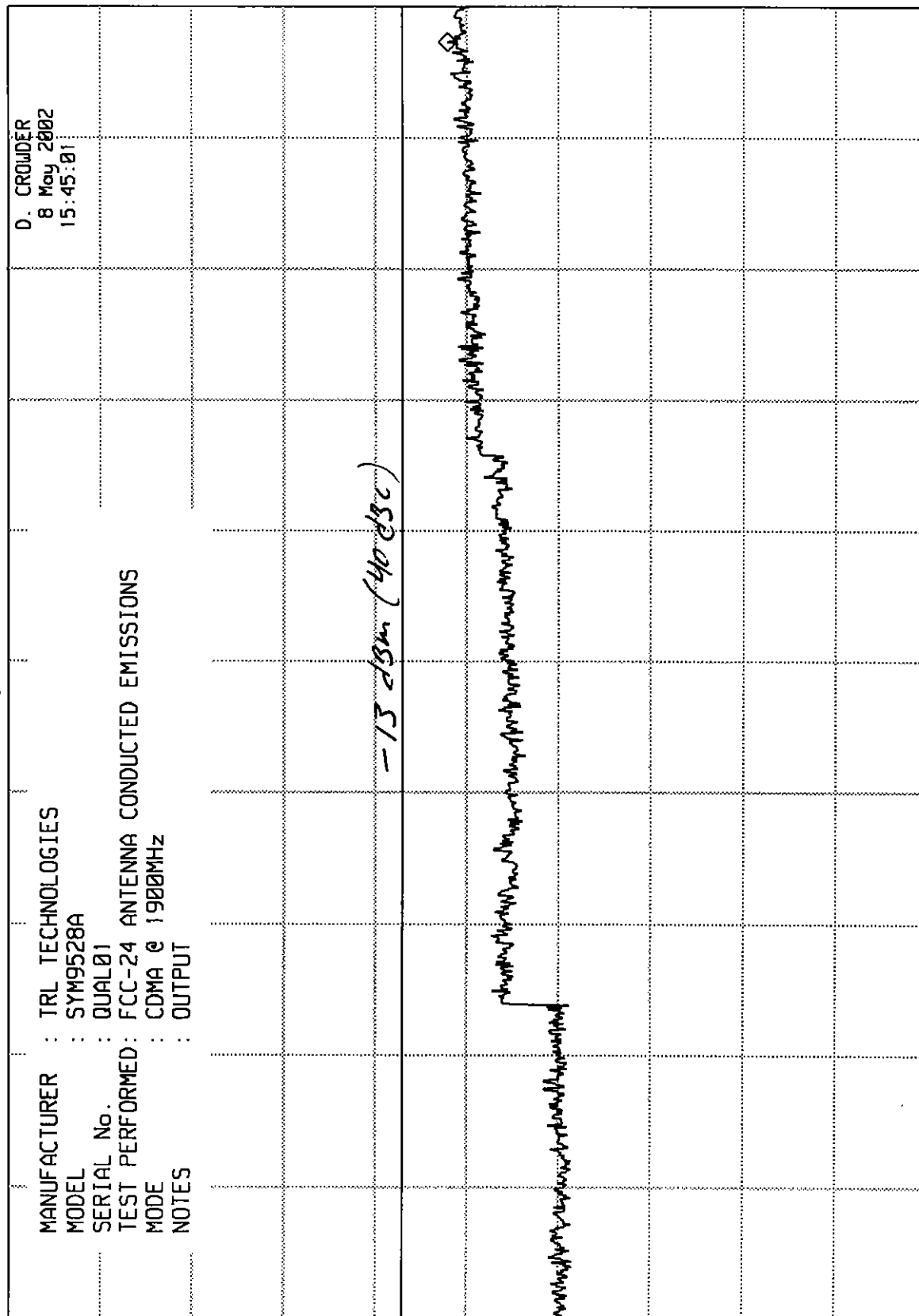
REF -10.0 dBm

ATTEN 10 dB +40 dB EXT

10 dB/

OFFSET  
-10.0  
dB

DL  
-53.0  
dBm



START 2.0 GHz  
RES BW 1 MHz (1)  
STOP 18.0 GHz  
SWP 400 msec  
VBW 3 MHz

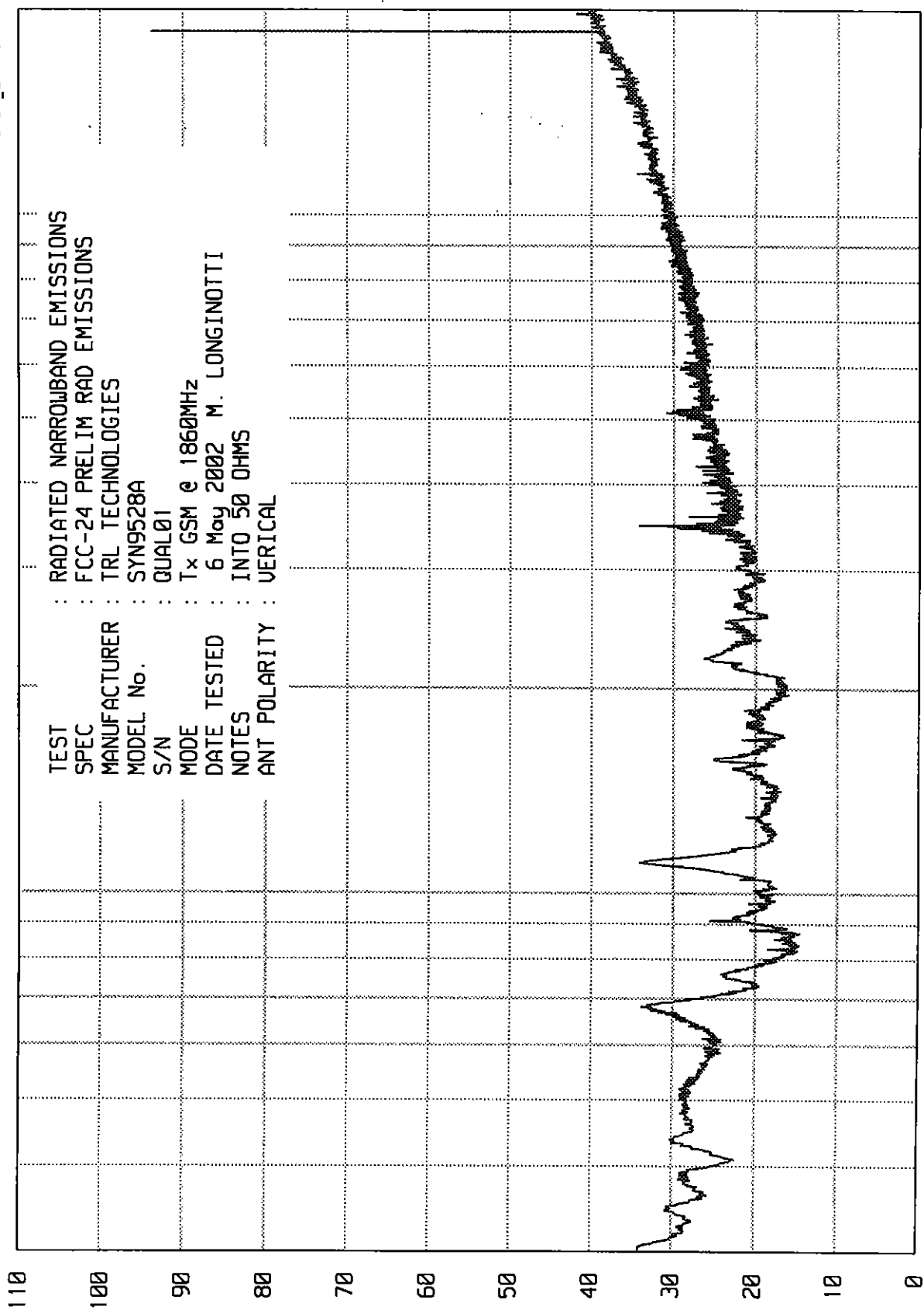
ELITE ELECTRONIC ENGINEERING Co.

Downers Grove, Ill. 60515

UNIU\_EM RUN RUN 1

UKA0 11/26/01

EE



TEST : RADIATED NARROWBAND EMISSIONS  
SPEC : FCC-24 PRELIM RAD EMISSIONS  
MANUFACTURER : TRL TECHNOLOGIES  
MODEL No. : SYN9528A  
S/N : QUAL01  
MODE : Tx GSM @ 1860MHz  
DATE TESTED : 6 May 2002 M. LONGINOTTI  
NOTES : INTO 50 OHMS  
ANT POLARITY : VERTICAL

START = 30

FREQUENCY - MHz

1000

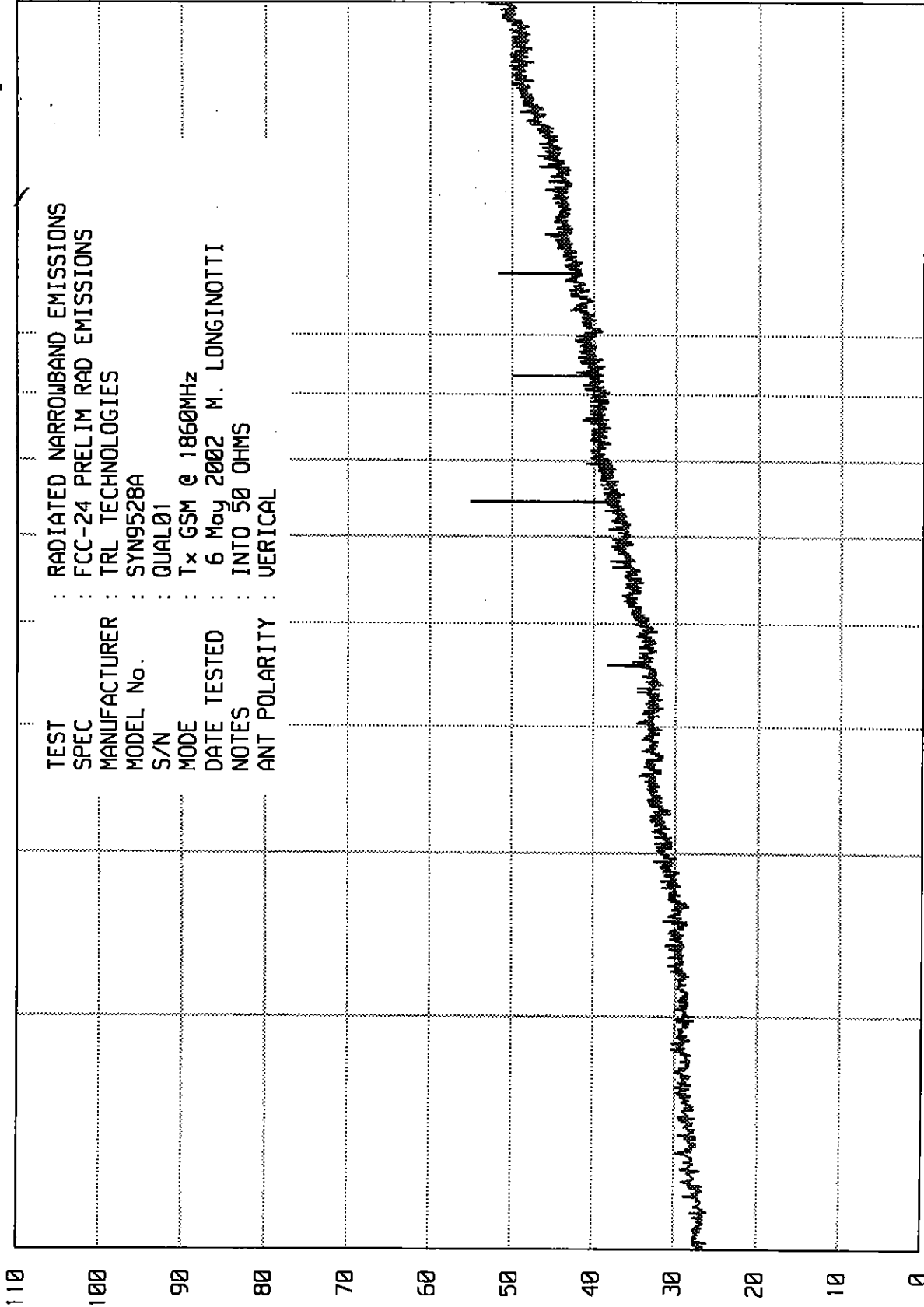
STOP = 2000

# ELITE ELECTRONIC ENGINEERING Co.

Downers Grove, Ill. 60515

UNIU\_EM RUN RUN 3

UKA0 11/26/01



TEST : RADIATED NARROWBAND EMISSIONS  
 SPEC : FCC-24 PRELIM RAD EMISSIONS  
 MANUFACTURER : TRL TECHNOLOGIES  
 MODEL No. : SYN9528A  
 S/N : QUAL01  
 MODE : Tx GSM @ 1860MHz  
 DATE TESTED : 6 May 2002 M. LONGINOTTI  
 NOTES : INTO 50 OHMS  
 ANT POLARITY : VERTICAL

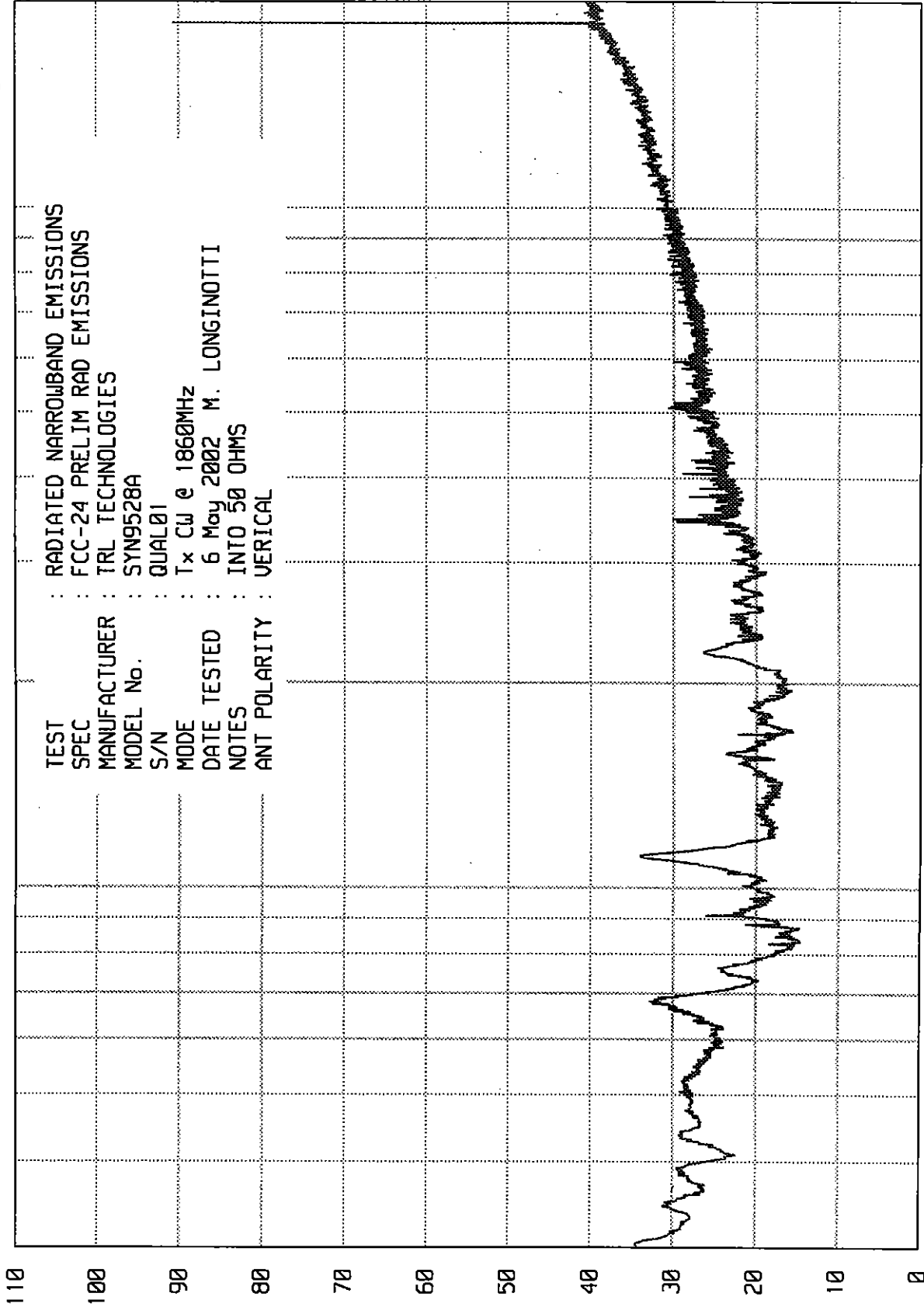
# ELITE ELECTRONIC ENGINEERING Co.

Downers Grove, Ill. 60515

11/26/01

UNIV\_EM\_RUN RUN 1

TEST : RADIATED NARROWBAND EMISSIONS  
 SPEC : FCC-24 PRELIM RAD EMISSIONS  
 MANUFACTURER : TRL TECHNOLOGIES  
 MODEL No. : SYN9528A  
 S/N : QUAL01  
 MODE : Tx CW @ 1860MHz  
 DATE TESTED : 6 May 2002 M. LONGINOTTI  
 NOTES : INTO 50 OHMS  
 ANT POLARITY : VERTICAL



START = 30

FREQUENCY - MHz

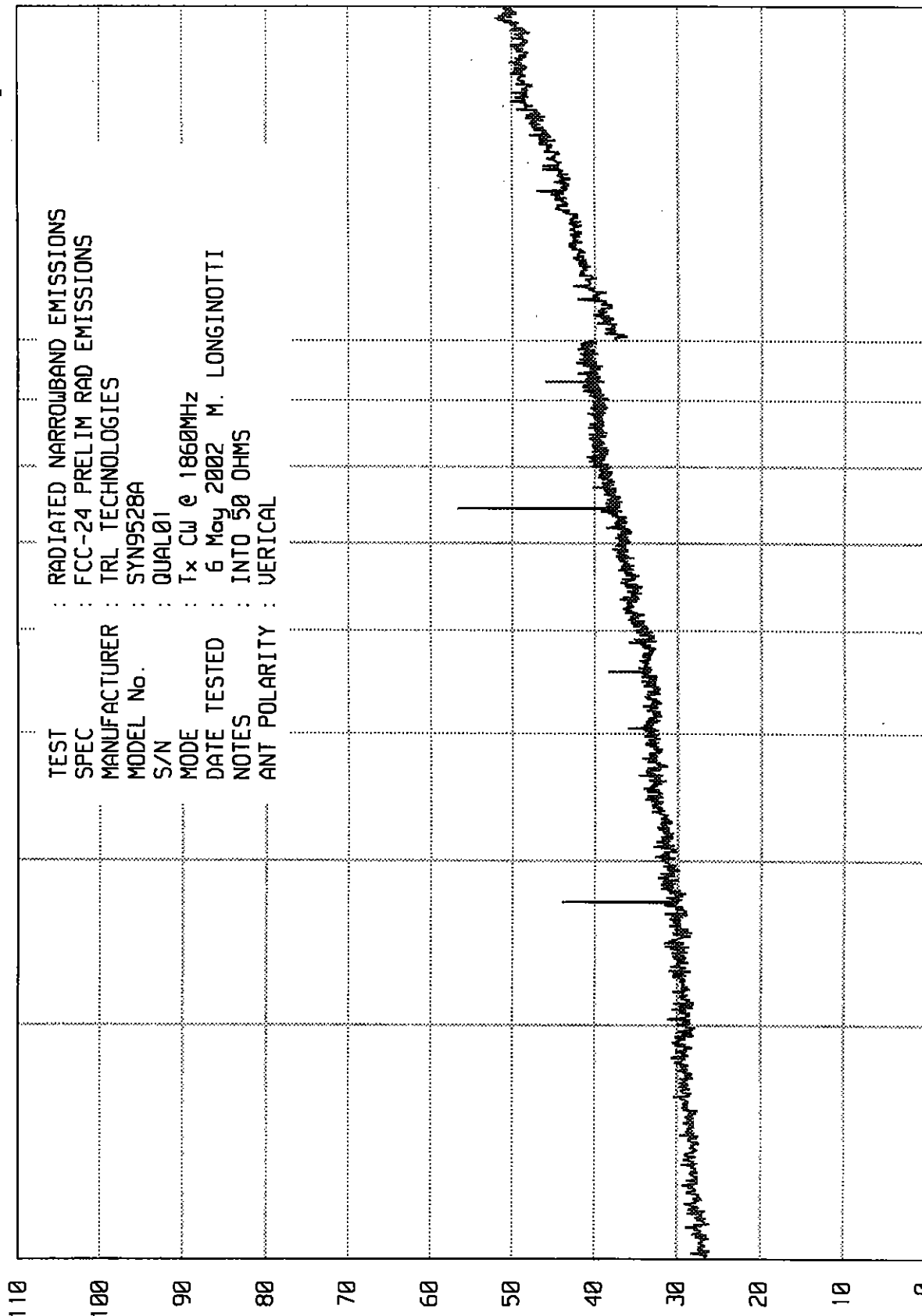
STOP = 2000

EE

# ELITE ELECTRONIC ENGINEERING Co. Downers Grove, Ill. 60515

UKA00 11/26/01

UNITV\_EM RUN RUN 2



TEST : RADIATED NARROWBAND EMISSIONS  
SPEC : FCC-24 PRELIM RAD EMISSIONS  
MANUFACTURER : TRL TECHNOLOGIES  
MODEL No. : SYN9528A  
S/N : QUAL01  
MODE : Tx CW @ 1860MHz  
DATE TESTED : 6 May 2002 M. LONGINOTTI  
NOTES : INTO 50 OHMS  
ANT POLARITY : VERTICAL

START = 2000

FREQUENCY - MHz

10000

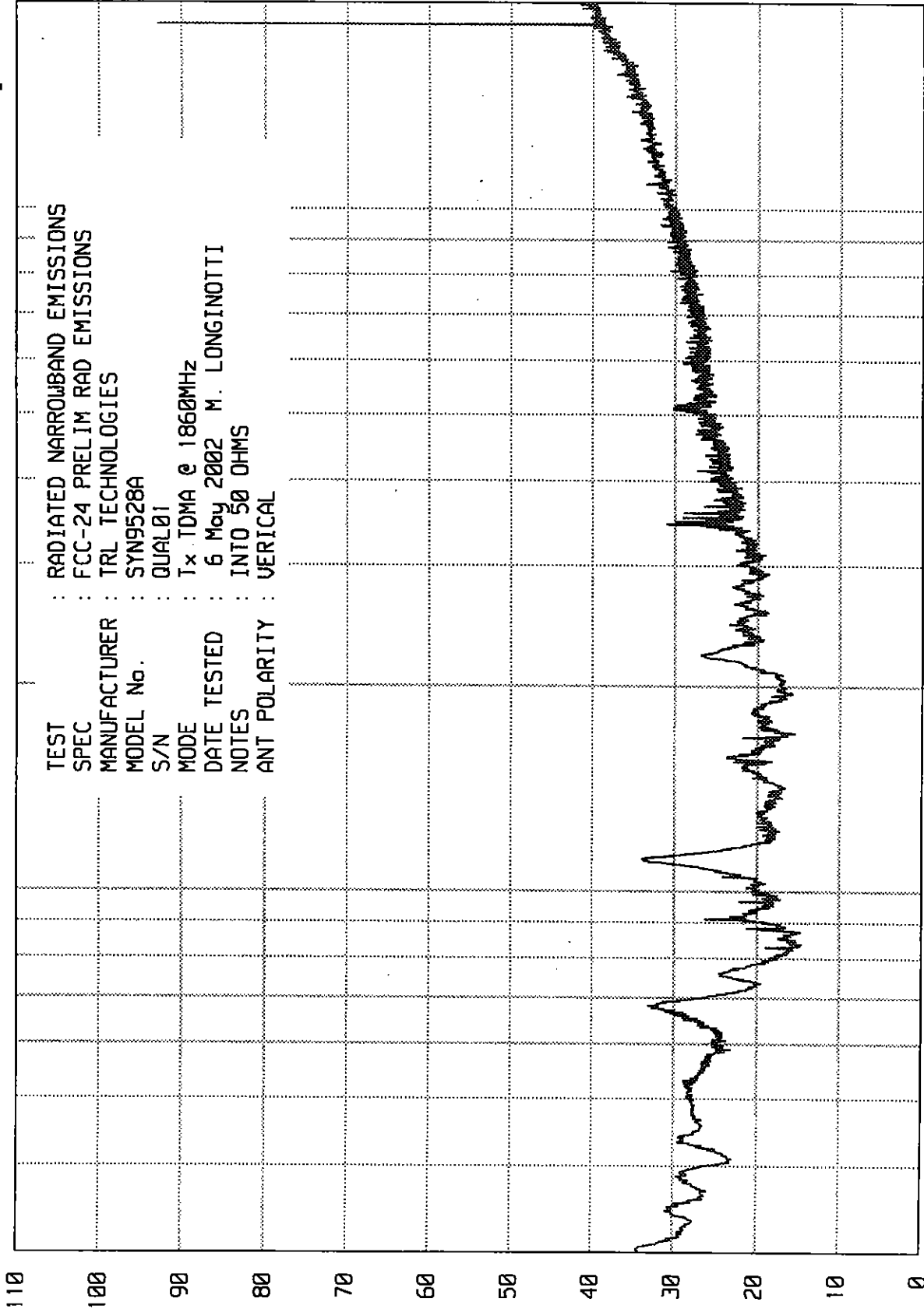
STOP = 18000

ELITE ELECTRONIC ENGINEERING Co.  
Downers Grove, Ill. 60515

UNIU\_EM RUN RUN 1

WK90 11/26/01

TEST : RADIATED NARROWBAND EMISSIONS  
SPEC : FCC-24 PRELIM RAD EMISSIONS  
MANUFACTURER : TRL TECHNOLOGIES  
MODEL No. : SYN9528A  
S/N : QUAL01  
MODE : Tx TDMA @ 1860MHz  
DATE TESTED : 6 May 2002 M. LONGINOTTI  
NOTES : INTO 50 OHMS  
ANT POLARITY : VERTICAL

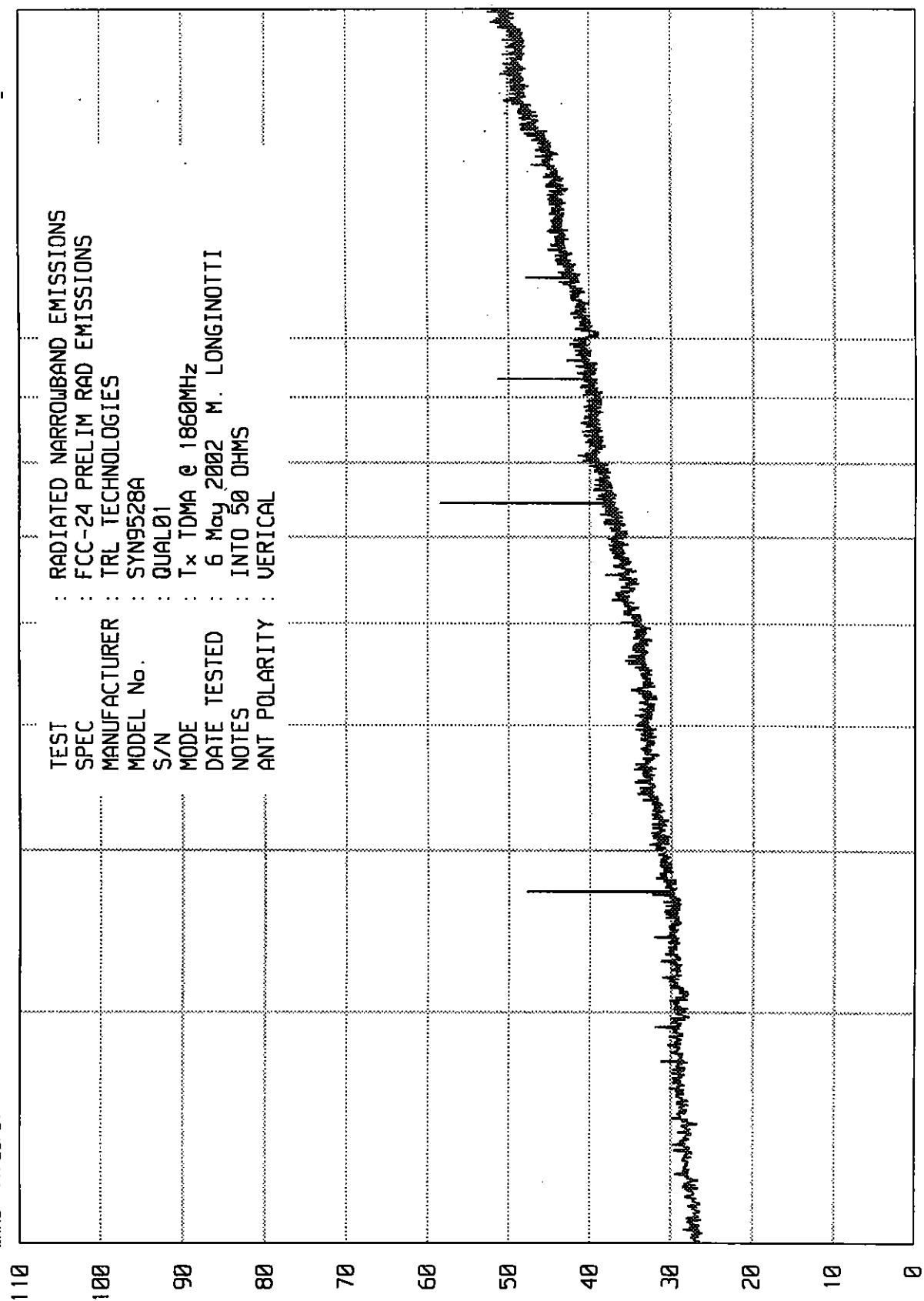


ELITE ELECTRONIC ENGINEERING Co.

Downers Grove, Ill. 60515

UNIU\_EM RUN RUN 3

WKA0 11/26/01



START = 2000

FREQUENCY - MHz

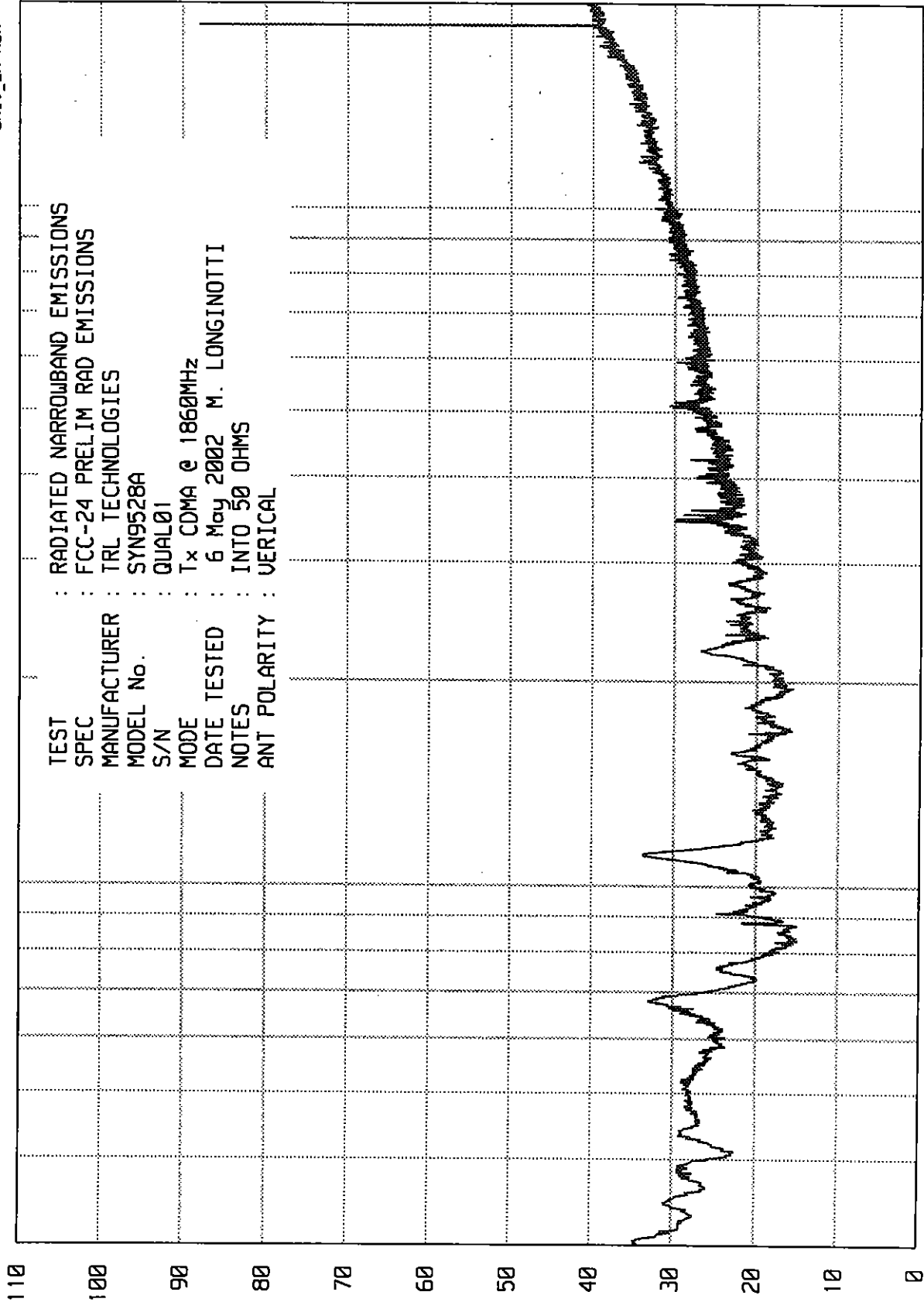
10000

STOP = 18000

# ELITE ELECTRONIC ENGINEERING Co. Downers Grove, Ill. 60515

UNIV\_EM RUN RUN 1

UKA0 11/26/01



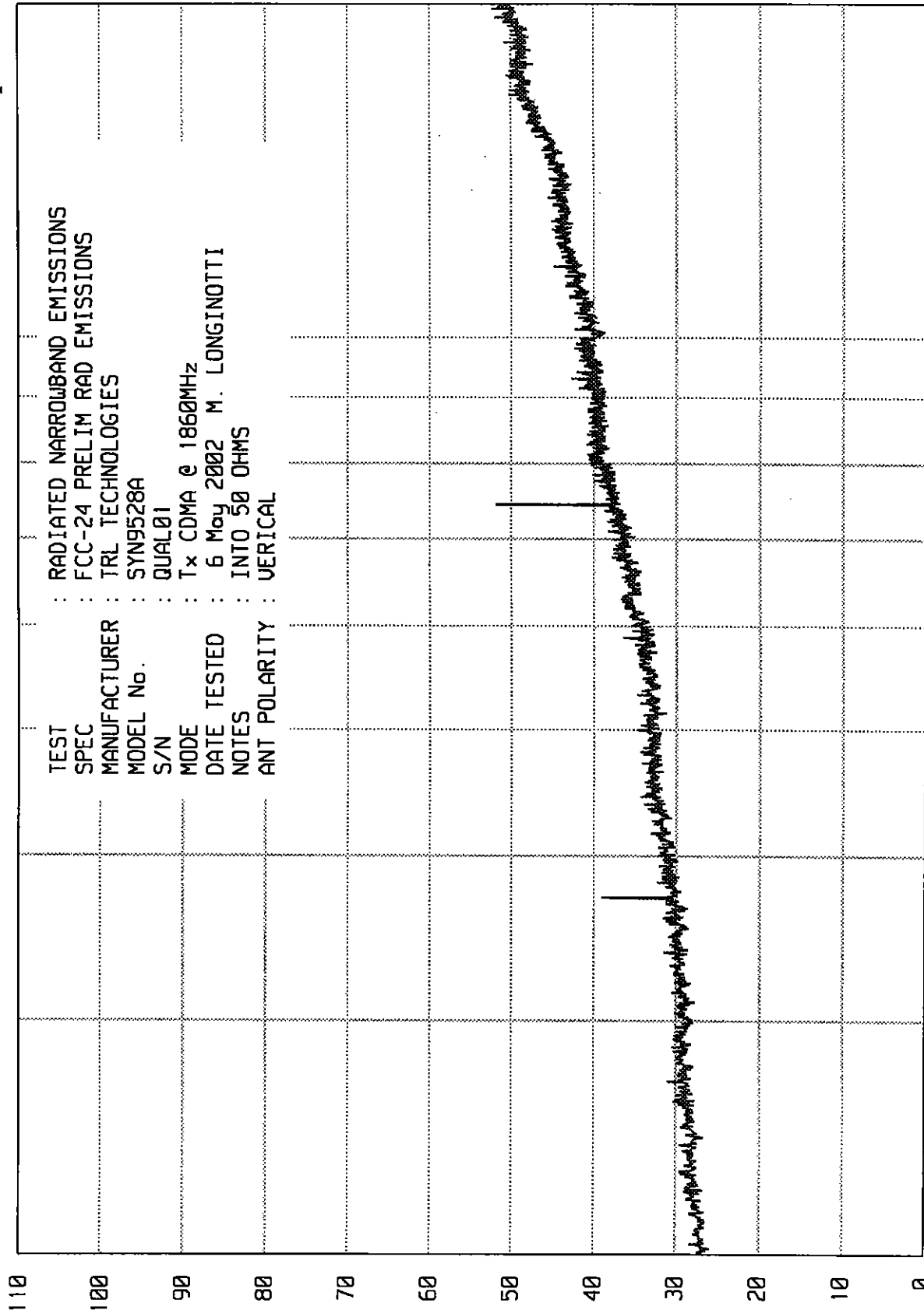
TEST : RADIATED NARROWBAND EMISSIONS  
SPEC : FCC-24 PRELIM RAD EMISSIONS  
MANUFACTURER : TRL TECHNOLOGIES  
MODEL No. : SYN9528A  
S/N : QUAL01  
MODE : Tx CDMA @ 1860MHz  
DATE TESTED : 6 May 2002 M. LONGINOTTI  
NOTES : INTO 50 OHMS  
ANT POLARITY : VERTICAL

EE

# ELITE ELECTRONIC ENGINEERING Co. Downers Grove, Ill. 60515

UKR08 11/26/01

UNIV\_EM RUN RUN 3



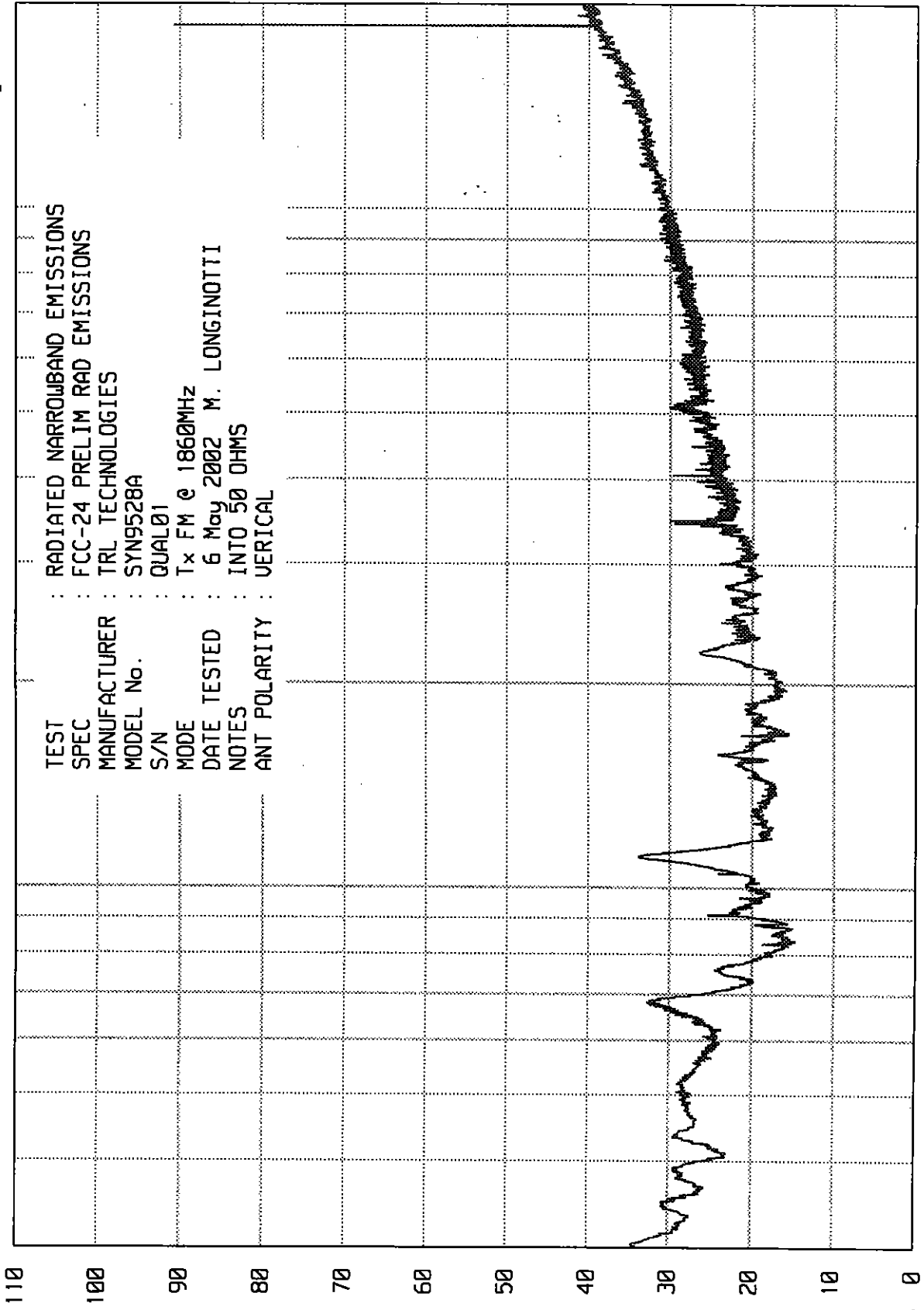
TEST : RADIATED NARROWBAND EMISSIONS  
SPEC : FCC-24 PRELIM RAD EMISSIONS  
MANUFACTURER : TRL TECHNOLOGIES  
MODEL No. : SYN9528A  
S/N : QUAL01  
MODE : Tx CDMA @ 1860MHz  
DATE TESTED : 6 May 2002 M. LONGINOTTI  
NOTES : INTO 50 OHMS  
ANT POLARITY : VERTICAL

# ELITE ELECTRONIC ENGINEERING Co. Downers Grove, Ill. 60515

UNIV\_EM RUN RUN 1

11/26/01

TEST : RADIATED NARROWBAND EMISSIONS  
 SPEC : FCC-24 PRELIM RAD EMISSIONS  
 MANUFACTURER : TRL TECHNOLOGIES  
 MODEL No. : SYN9528A  
 S/N : QUAL01  
 MODE : Tx FM @ 1860MHz  
 DATE TESTED : 6 May 2002 M. LONGINOTTI  
 NOTES : INTO 50 OHMS  
 ANT POLARITY : VERTICAL



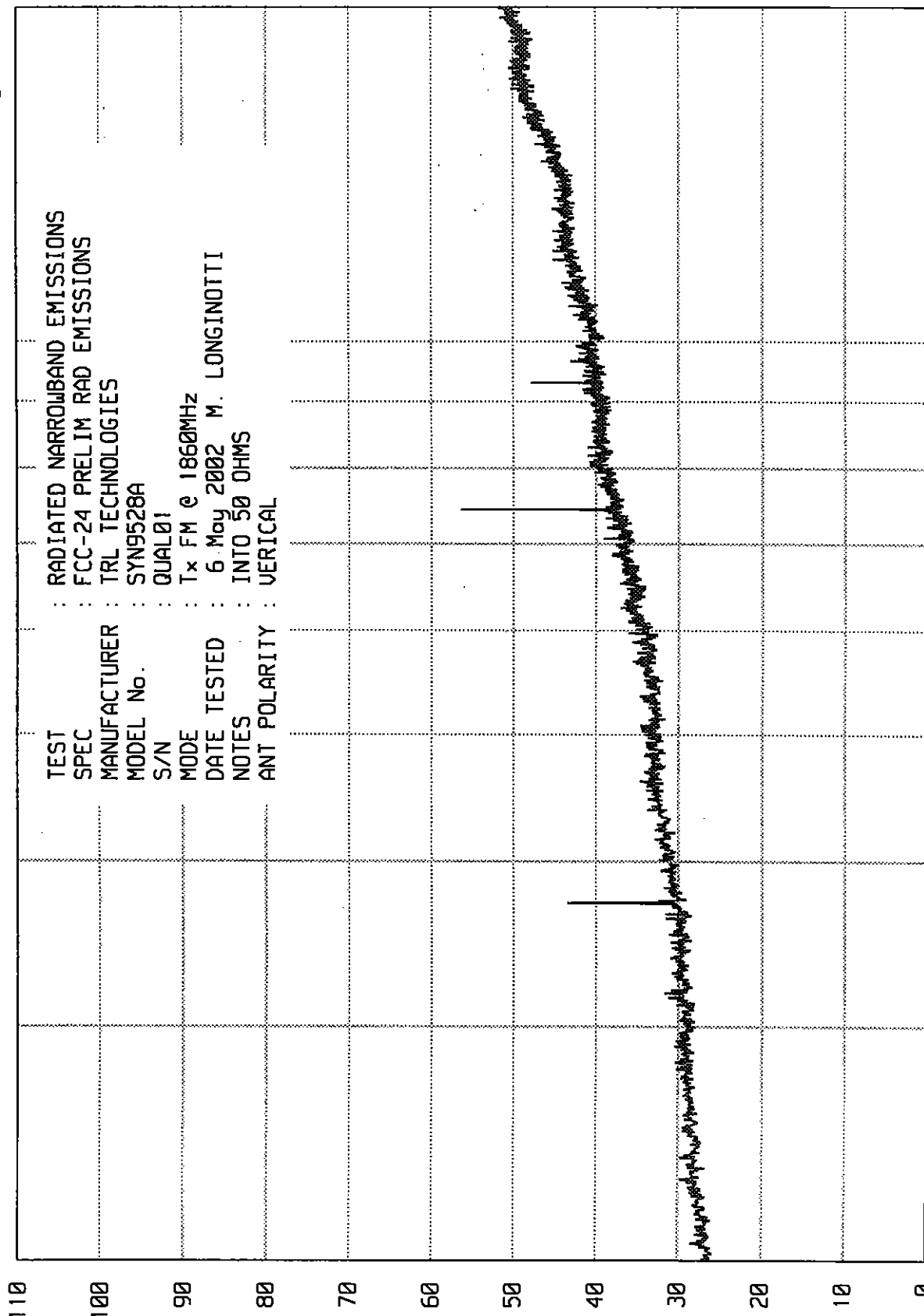
EE

# ELITE ELECTRONIC ENGINEERING Co.

Downers Grove, Ill. 60515

WK90 11/26/01

UNIT EM RUN RUN 3



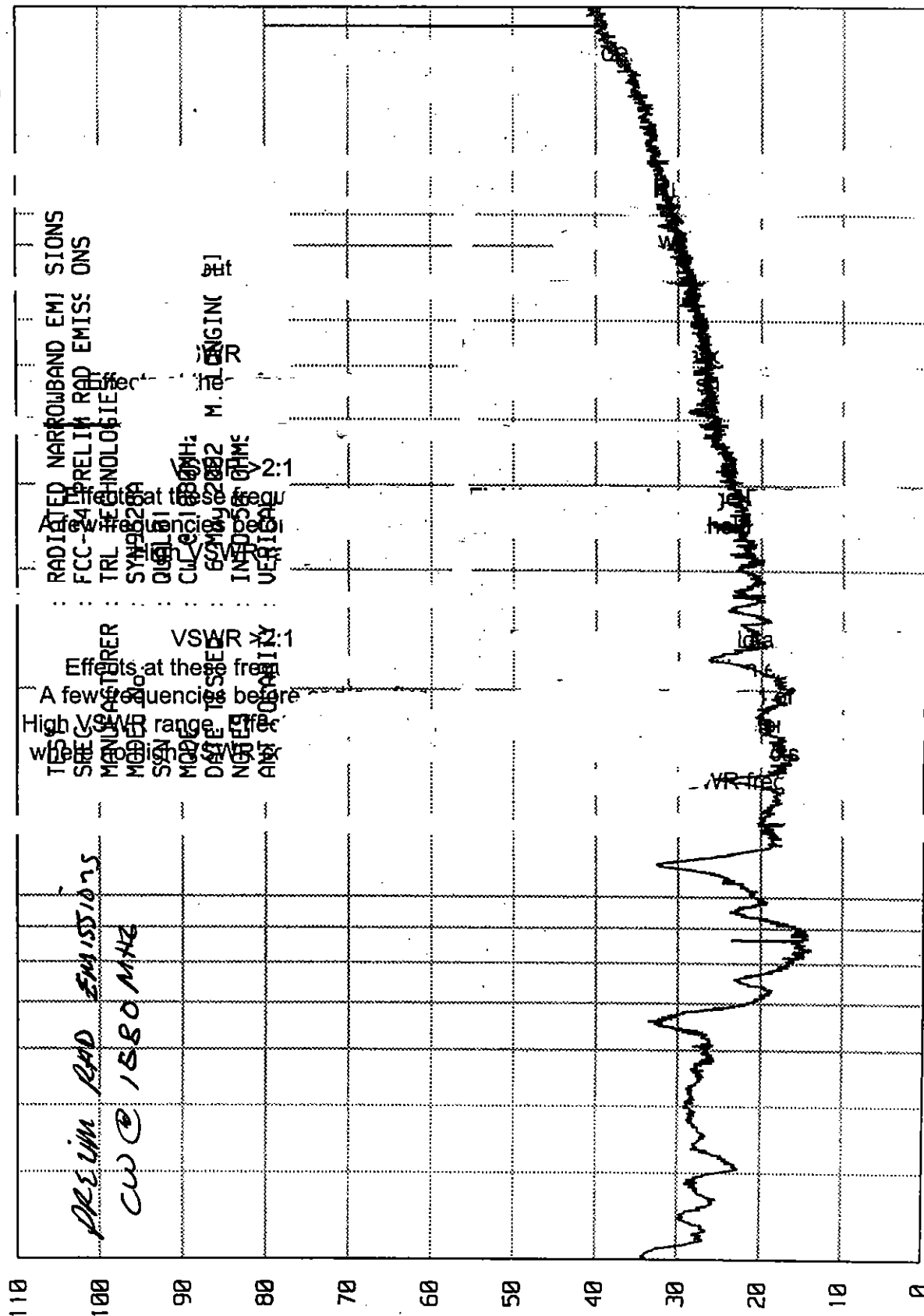
ELITE ELECTRONIC ENGINEERING Co.

Downers Grove, Ill. 60515

UNIU\_EH RUN RUN 1

JKAB 11/26/81

EE



1000

STOP = 2000

FREQUENCY - MHz

100

START = 30



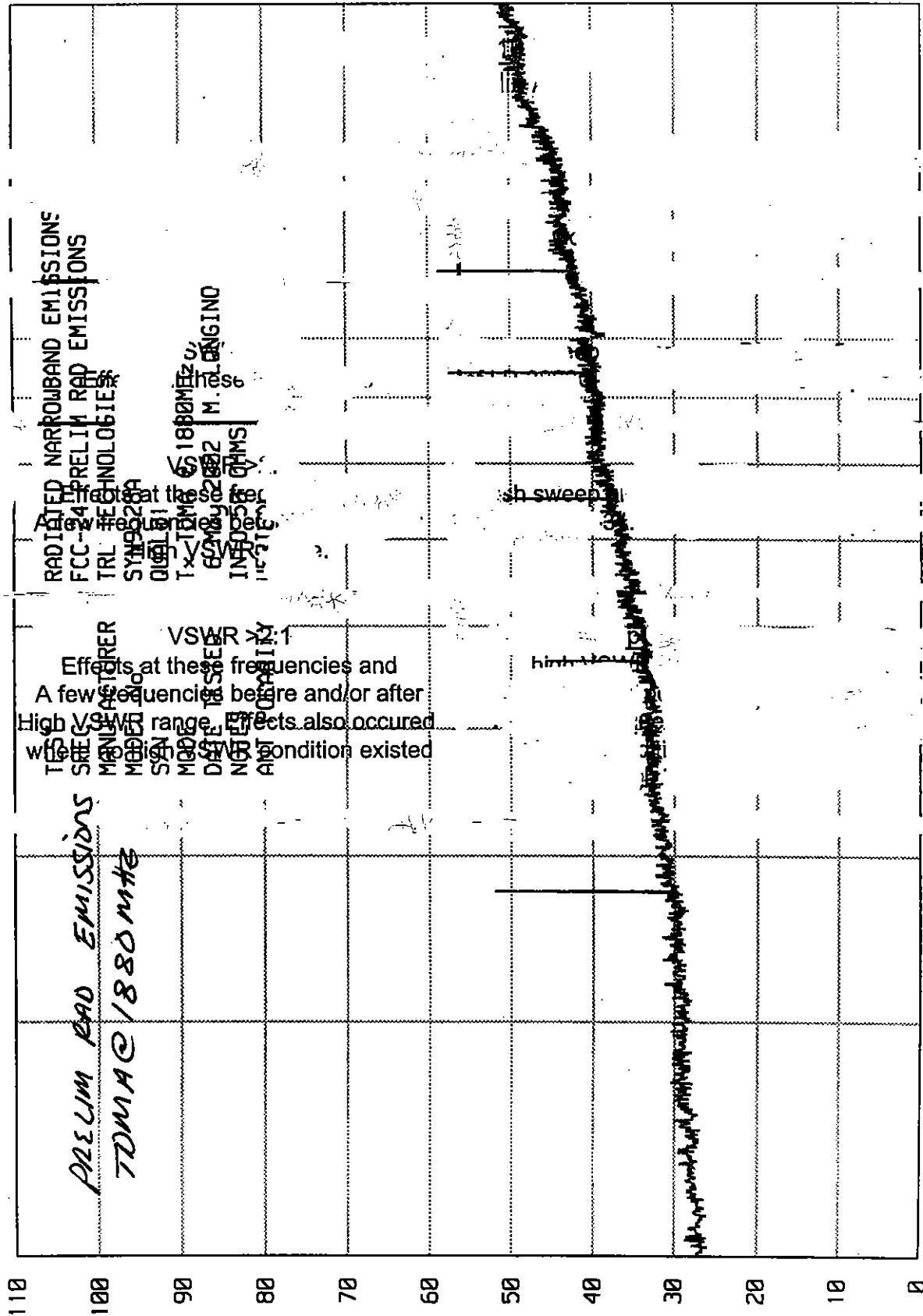


# ELITE ELECTRONIC ENGINEERING Co.

Downers Grove III 60515

UNIT EM RUN RUN 3

WKAB 11/26/01



START = 2000

FREQUENCY - MHz

10000

STOP = 18000

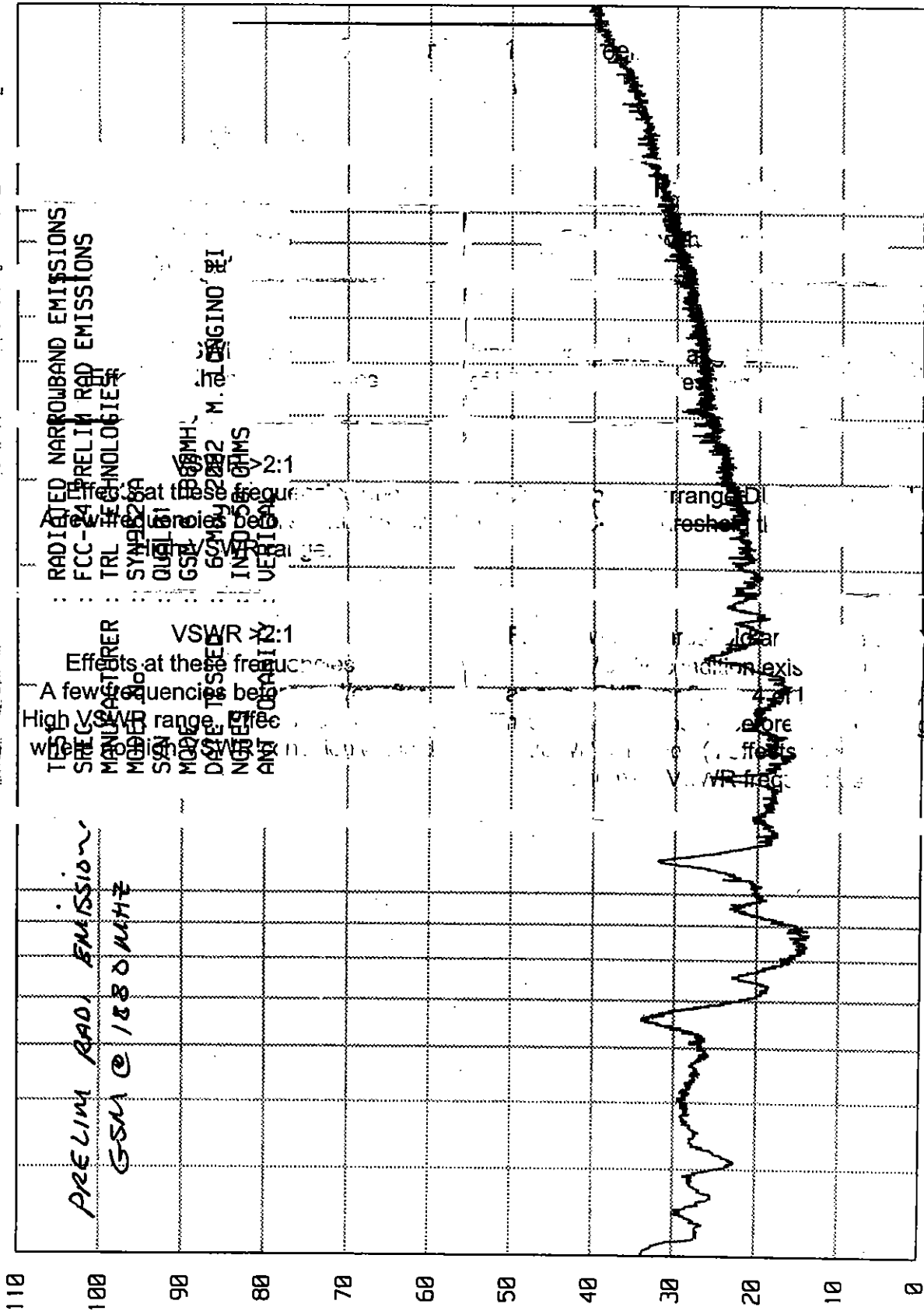
ELITE ELECTRONIC ENGINEERING Co.

Downers Grove, Ill. 60515

UNTU EM RUN RUN 1

WKA00 11/26/01

EE



STOP = 2000

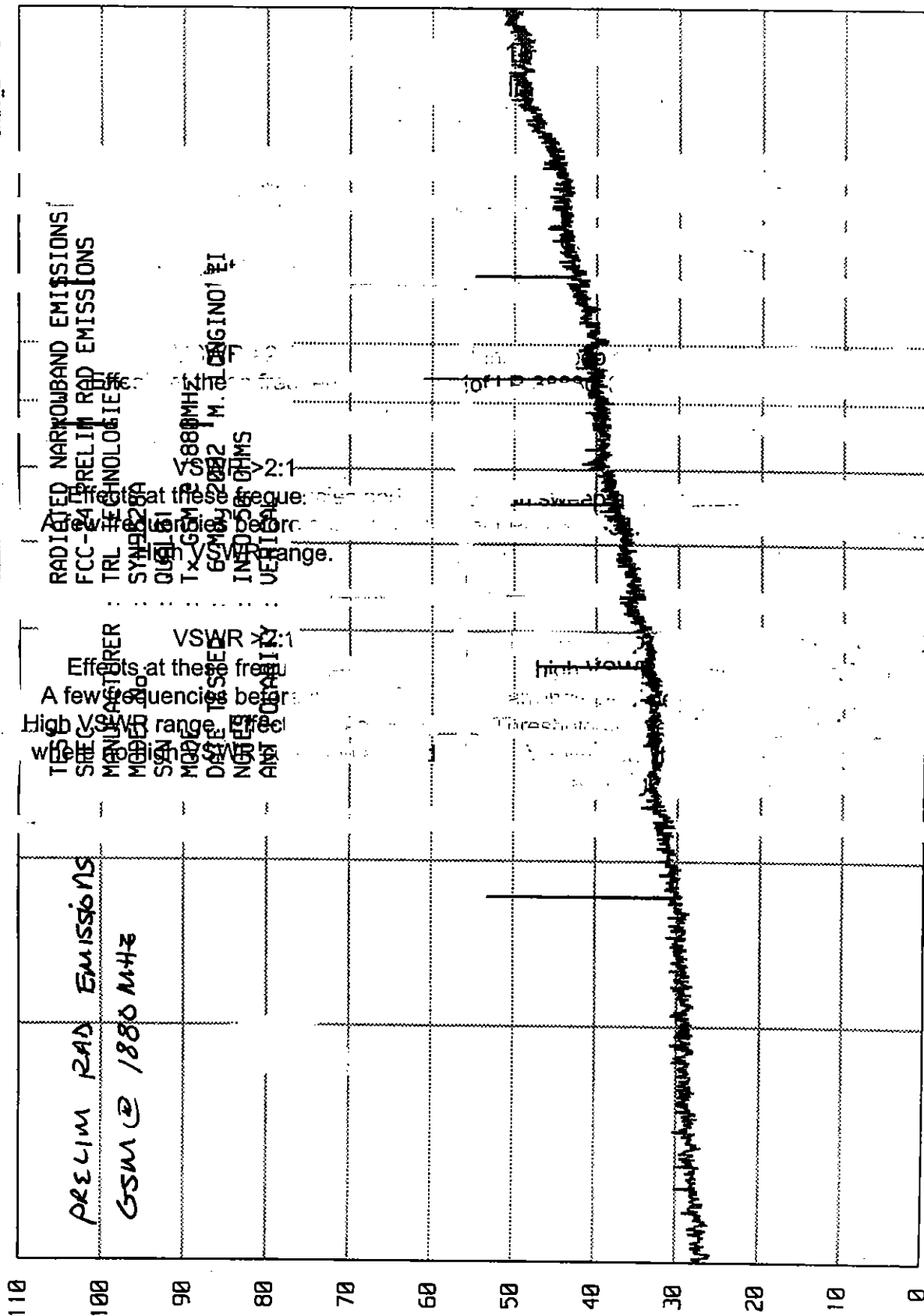
FREQUENCY - MHz

START = 30

Downers Grove, Ill. 60515

UNIV EM RUN RUN 3

**WKA0 11/26/01**



1000

FRUELYNLT - MHZ

START = 2000

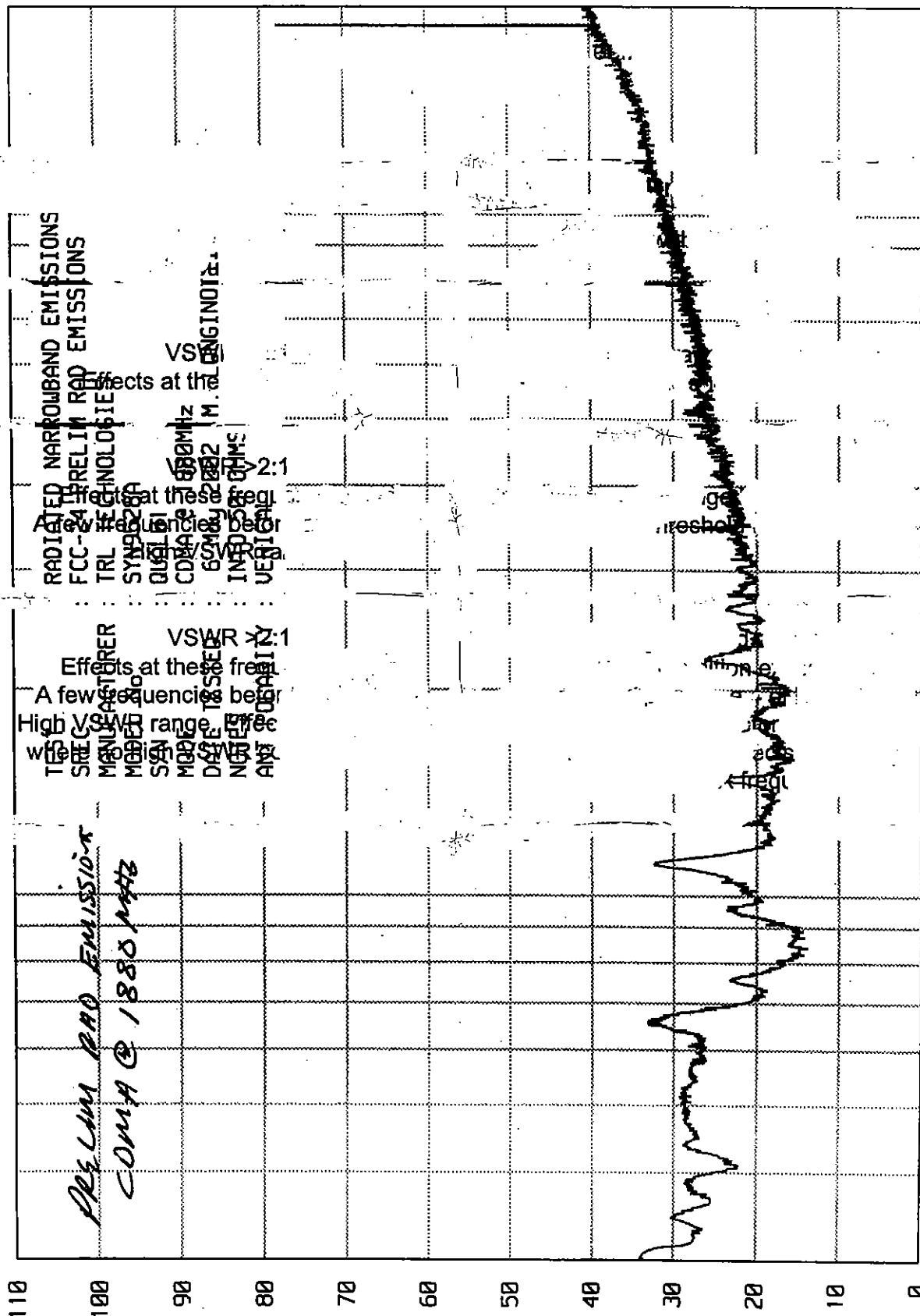
ELITE ELECTRONIC ENGINEERING Co.

Downers Grove, Ill. 60515

UNIT EM RUN RUN 1

UKA0 11/26/01

EE



RADIATED NARROWBAND EMISSIONS - dBu/m Data Page 179 of 199

START = 30

FREQUENCY - MHz

100

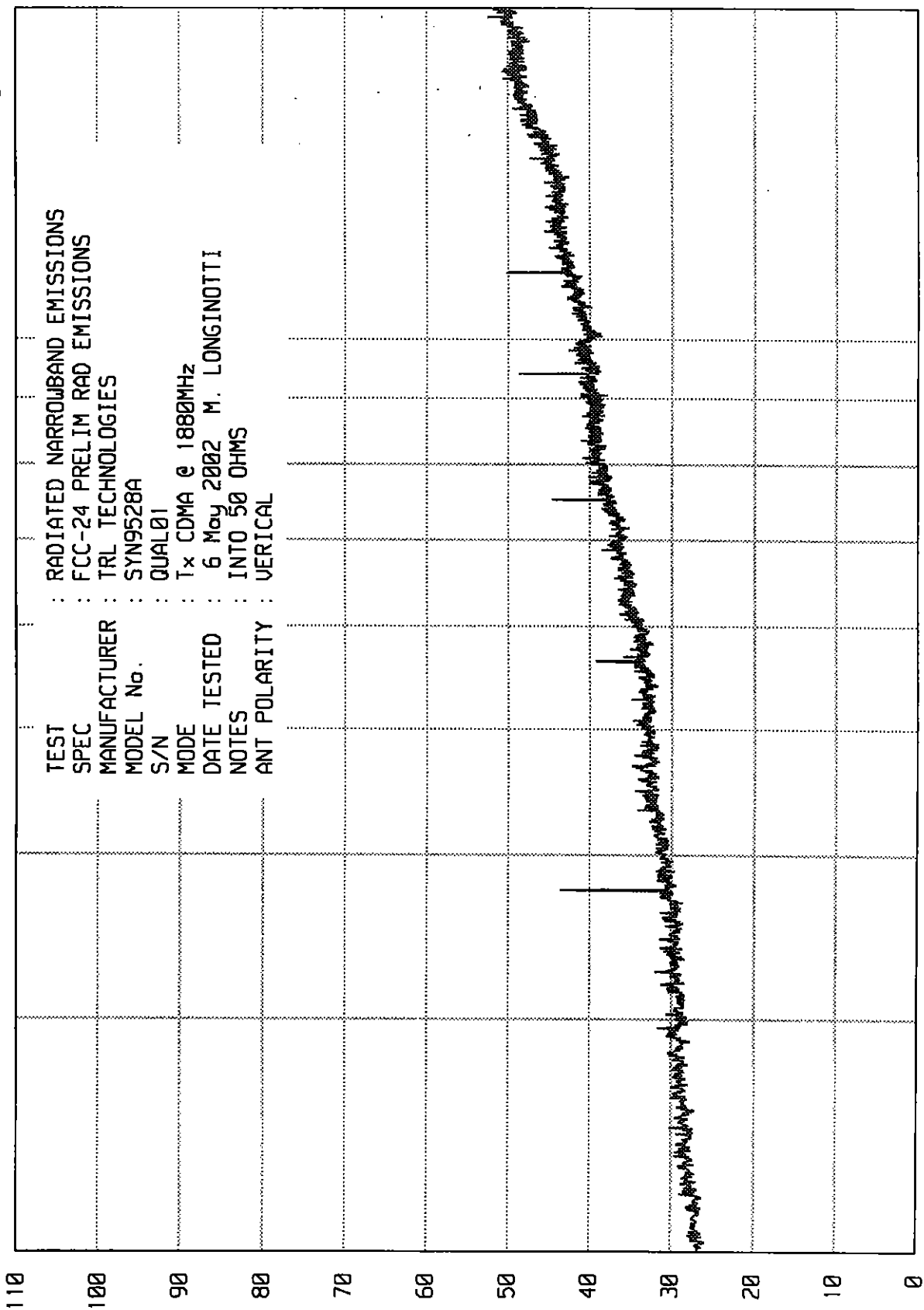
1000

STOP = 2000


**ELITE ELECTRONIC ENGINEERING Co.**  
 Downers Grove, Ill. 60515

UNITV\_EH RUN RUN 3

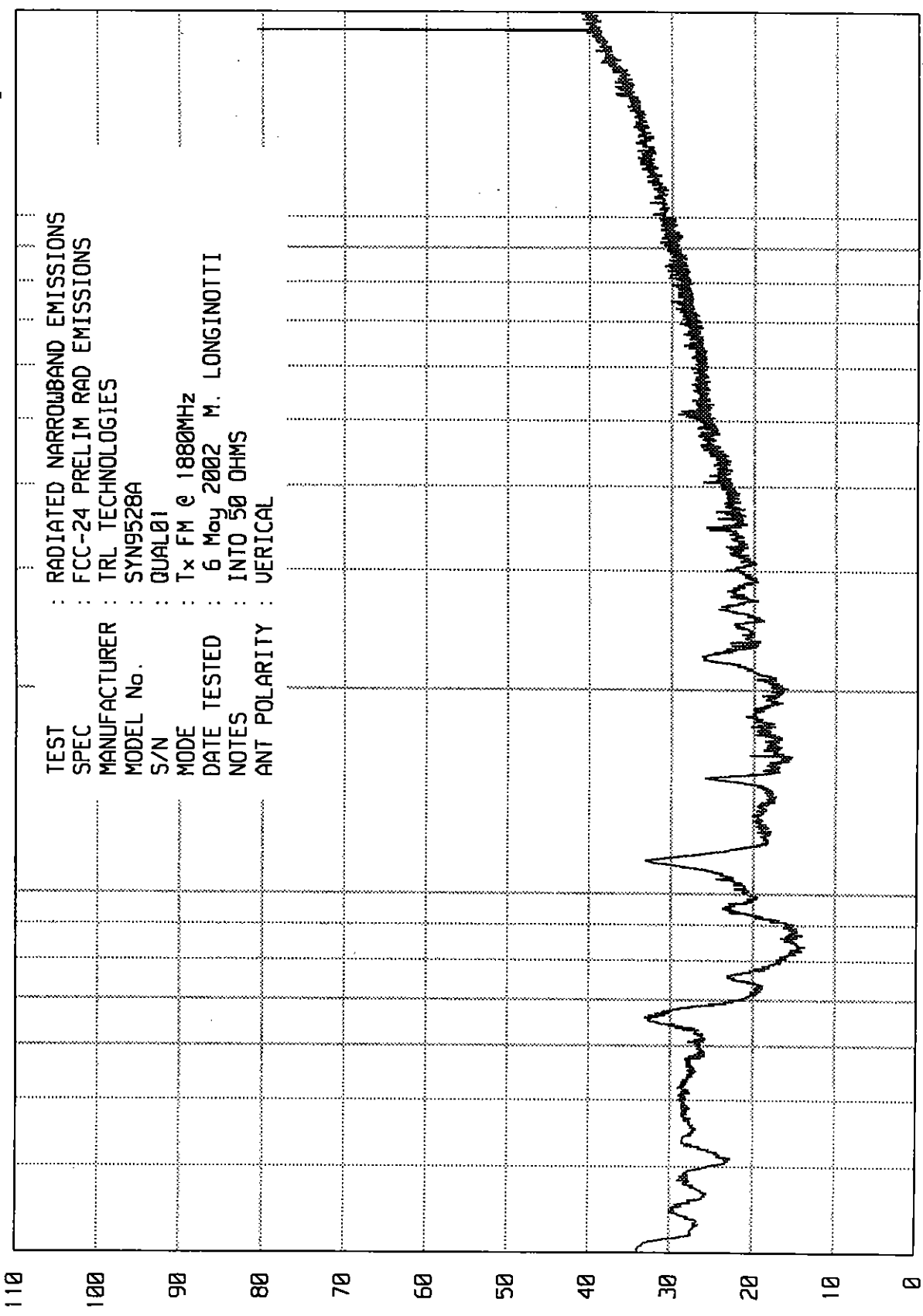
UKAB 11/26/01



ELITE ELECTRONIC ENGINEERING Co.  
Downers Grove, Ill. 60515

UNIU\_EM RUN RUN 1

WKA00 11/26/01



TEST : RADIATED NARROWBAND EMISSIONS  
SPEC : FCC-24 PRELIM RAD EMISSIONS  
MANUFACTURER : TRL TECHNOLOGIES  
MODEL No. : SYN9528A  
S/N : QJAL01  
MODE : Tx FM @ 1880MHz  
DATE TESTED : 6 May 2002 M. LONGINOTTI  
NOTES : INTO 50 OHMS  
ANT POLARITY : VERTICAL

START = 30

FREQUENCY - MHz

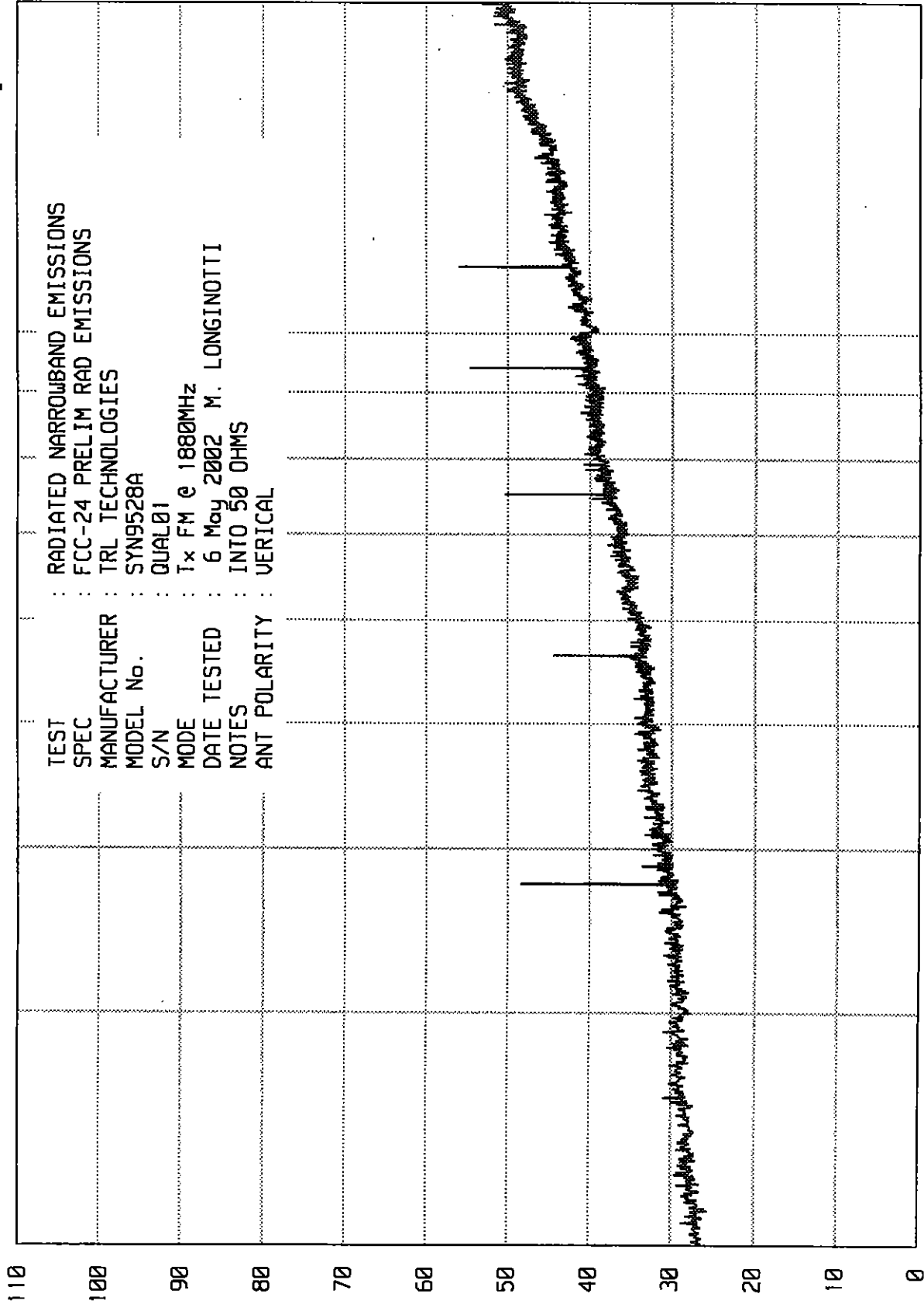
STOP = 2000

# ELITE ELECTRONIC ENGINEERING Co.

Downers Grove, Ill. 60515

UNIV\_EM RUN RUN 3

WKAB 11/26/01



TEST : RADIATED NARROWBAND EMISSIONS  
 SPEC : FCC-24 PRELIM RAD EMISSIONS  
 MANUFACTURER : TRL TECHNOLOGIES  
 MODEL No. : SYN9528A  
 S/N : QUAL01  
 MODE : Tx FM @ 1880MHz  
 DATE TESTED : 6 May 2002 M. LONGINOTTI  
 NOTES : INTO 50 OHMS  
 ANT POLARITY : VERTICAL

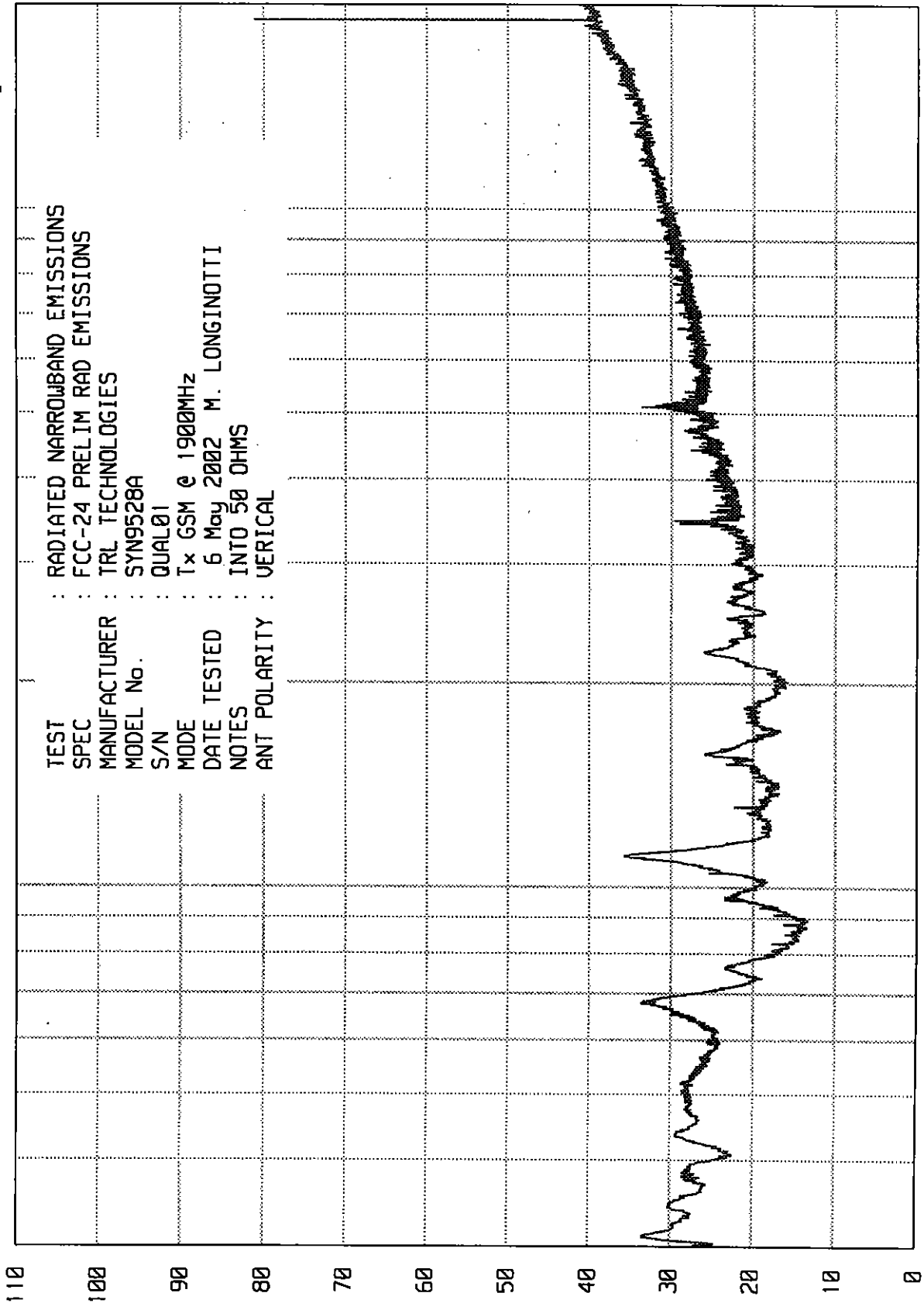
ELITE ELECTRONIC ENGINEERING Co.

Dawners Grove, Ill. 60515

UNIV\_EM RUN RUN 1

WKA00 11/26/01

EEC



TEST : RADIATED NARROWBAND EMISSIONS  
SPEC : FCC-24 PRELIM RAD EMISSIONS  
MANUFACTURER : TRL TECHNOLOGIES  
MODEL No. : SYN9528A  
S/N : QUAL01  
MODE : Tx GSM @ 1900MHz  
DATE TESTED : 6 May 2002 M. LONGINOTTI  
NOTES : INTO 50 OHMS  
ANT POLARITY : VERTICAL

START = 30

FREQUENCY - MHz

1000

STOP = 2000

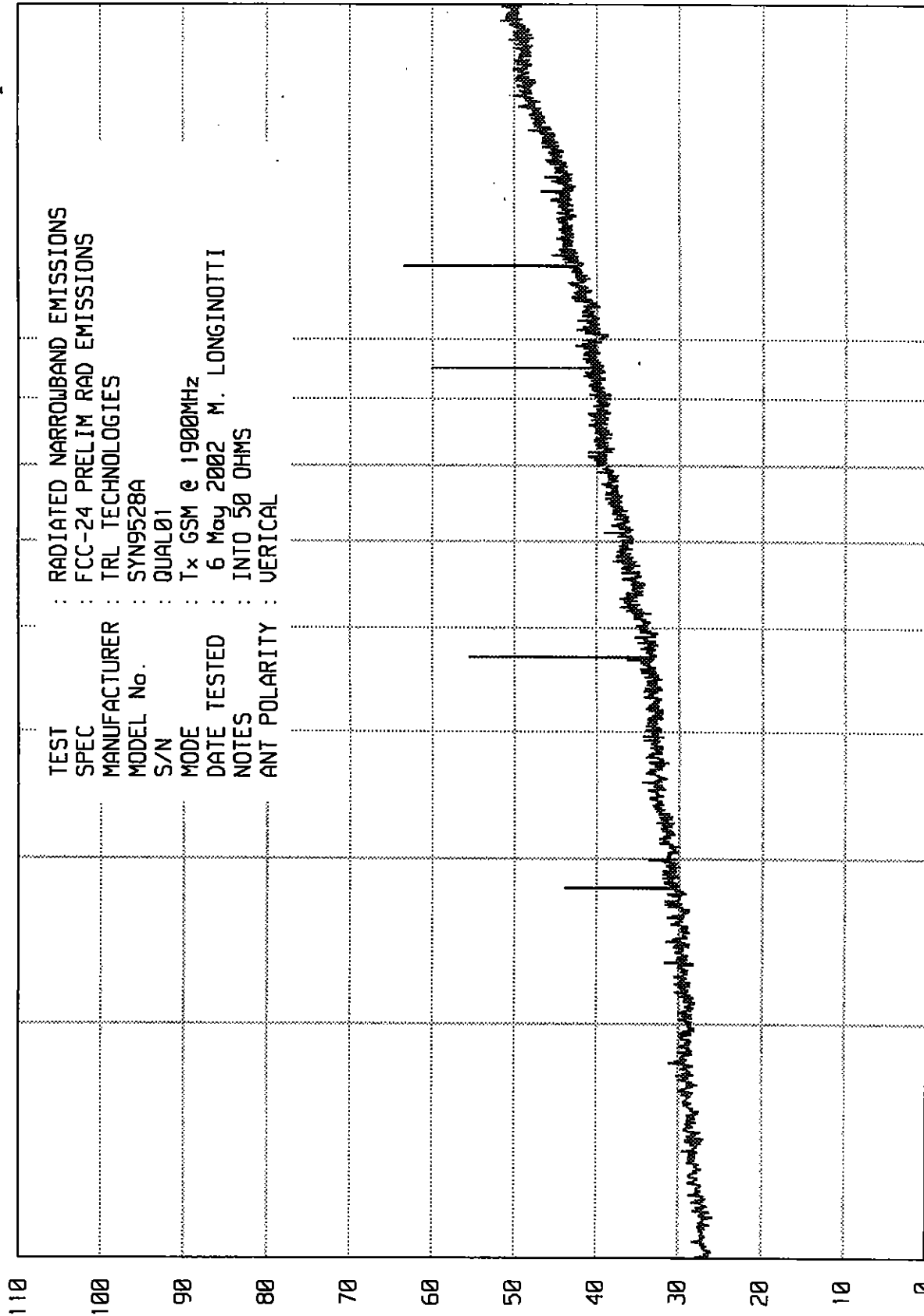
EE

# ELITE ELECTRONIC ENGINEERING Co.

Dawners Grove, Ill. 60515

WKA0 11/26/01

UNIT EM RUN RUN 3



RADIATED NARROWBAND EMISSIONS - dBu/m Data Page 184 of 158

ETR 30980-01

START = 2000

FREQUENCY - MHz

10000

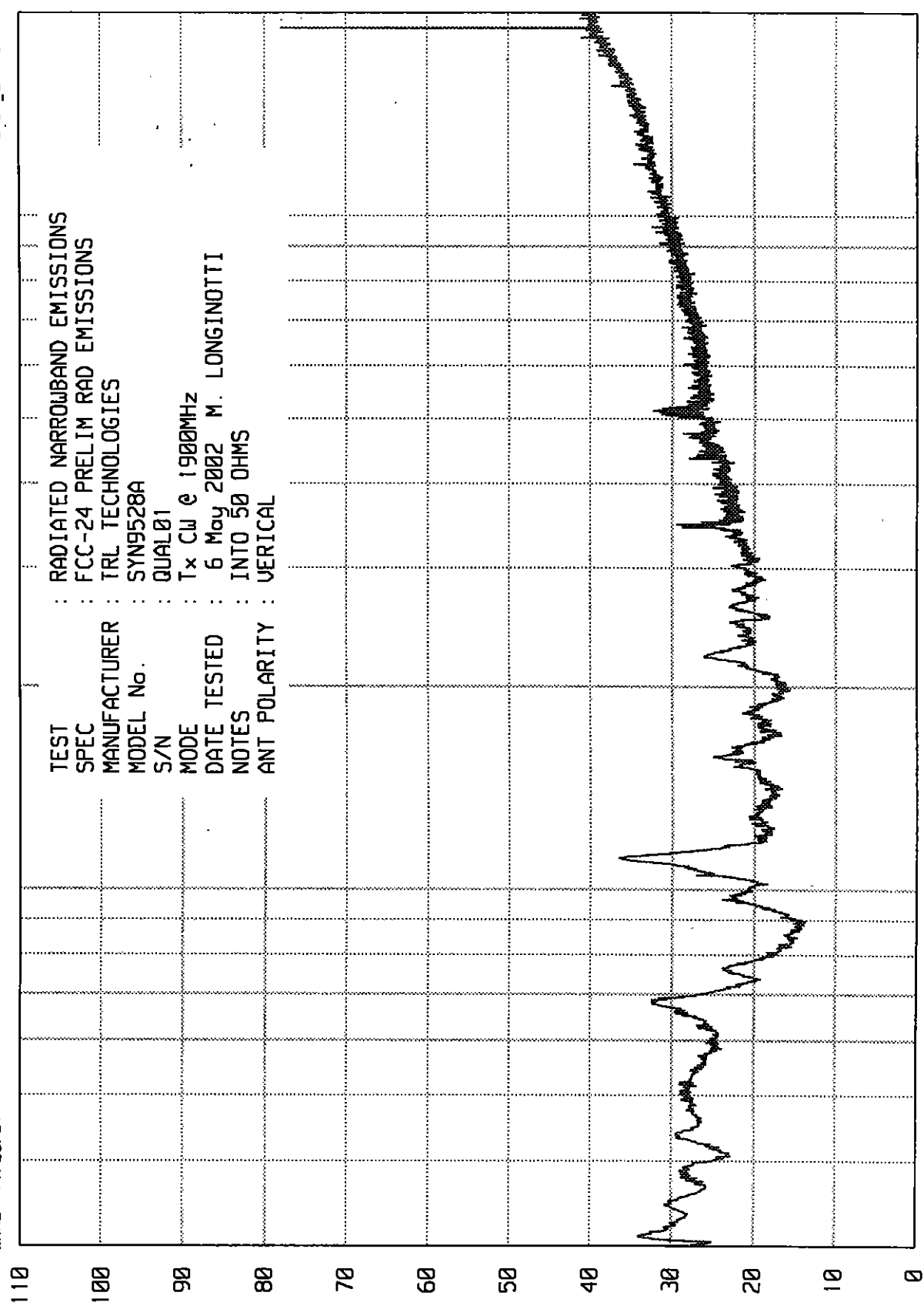
STOP = 18000

ELITE ELECTRONIC ENGINEERING Co.

Dawners Grove, Ill. 60515

UNITU\_EM RUN RUN 1

WKA08 11/26/01



TEST : RADIATED NARROWBAND EMISSIONS  
SPEC : FCC-24 PRELIM RAD EMISSIONS  
MANUFACTURER : TRL TECHNOLOGIES  
MODEL No. : SYN9528A  
S/N : QUAL01  
MODE : Tx CW @ 1900MHz  
DATE TESTED : 6 May 2002 M. LONGINOTTI  
NOTES : INTO 50 OHMS  
ANT POLARITY : VERTICAL

START = 30

FREQUENCY - MHz

1000

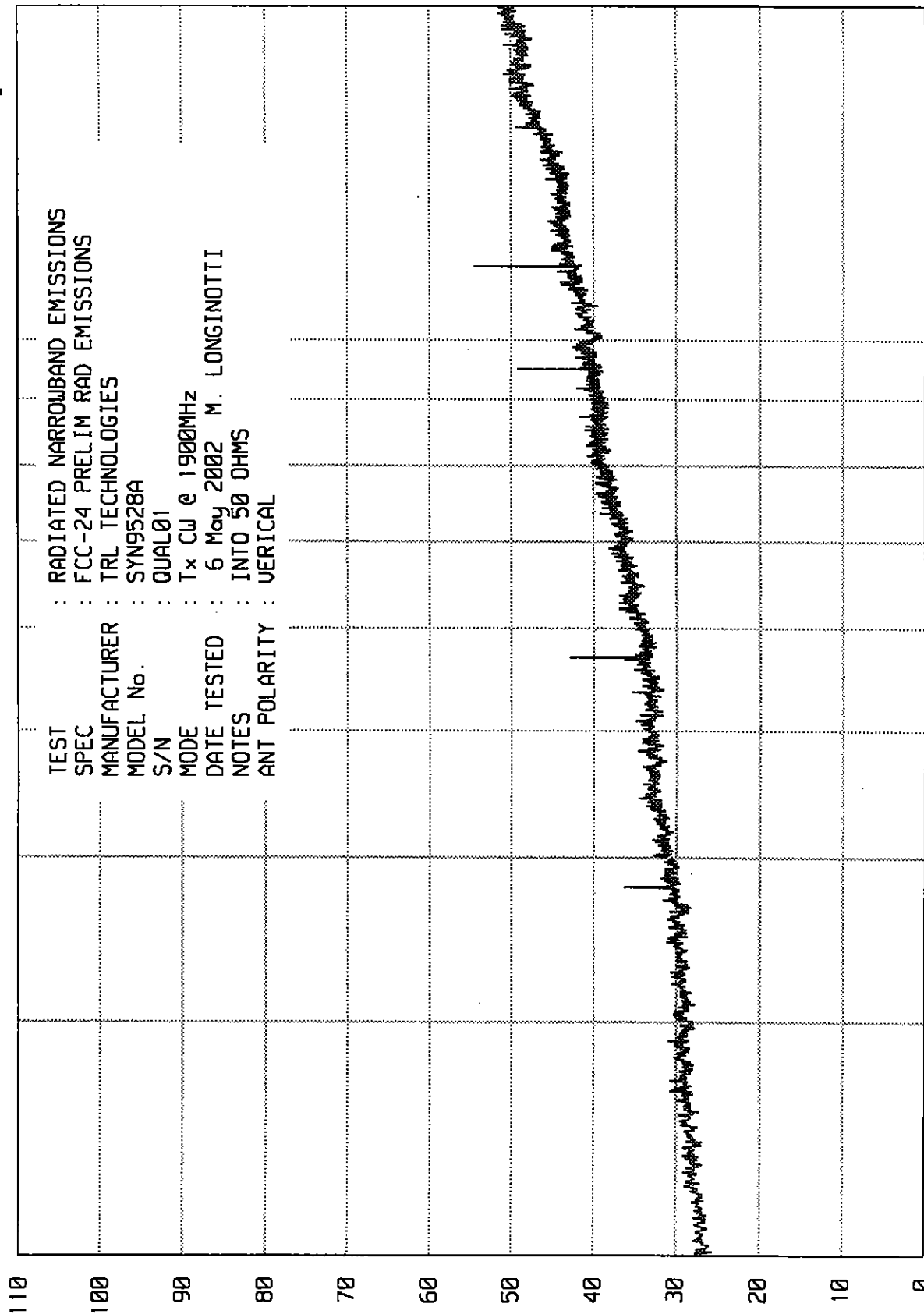
STOP = 2000

EE

# ELITE ELECTRONIC ENGINEERING Co. Downers Grove, Ill. 60515

UKAB 11/26/01

UNITV\_EH RUN RUN 3



Data Page 186 of 198

ETR 30980-01

START = 2000

FREQUENCY - MHz

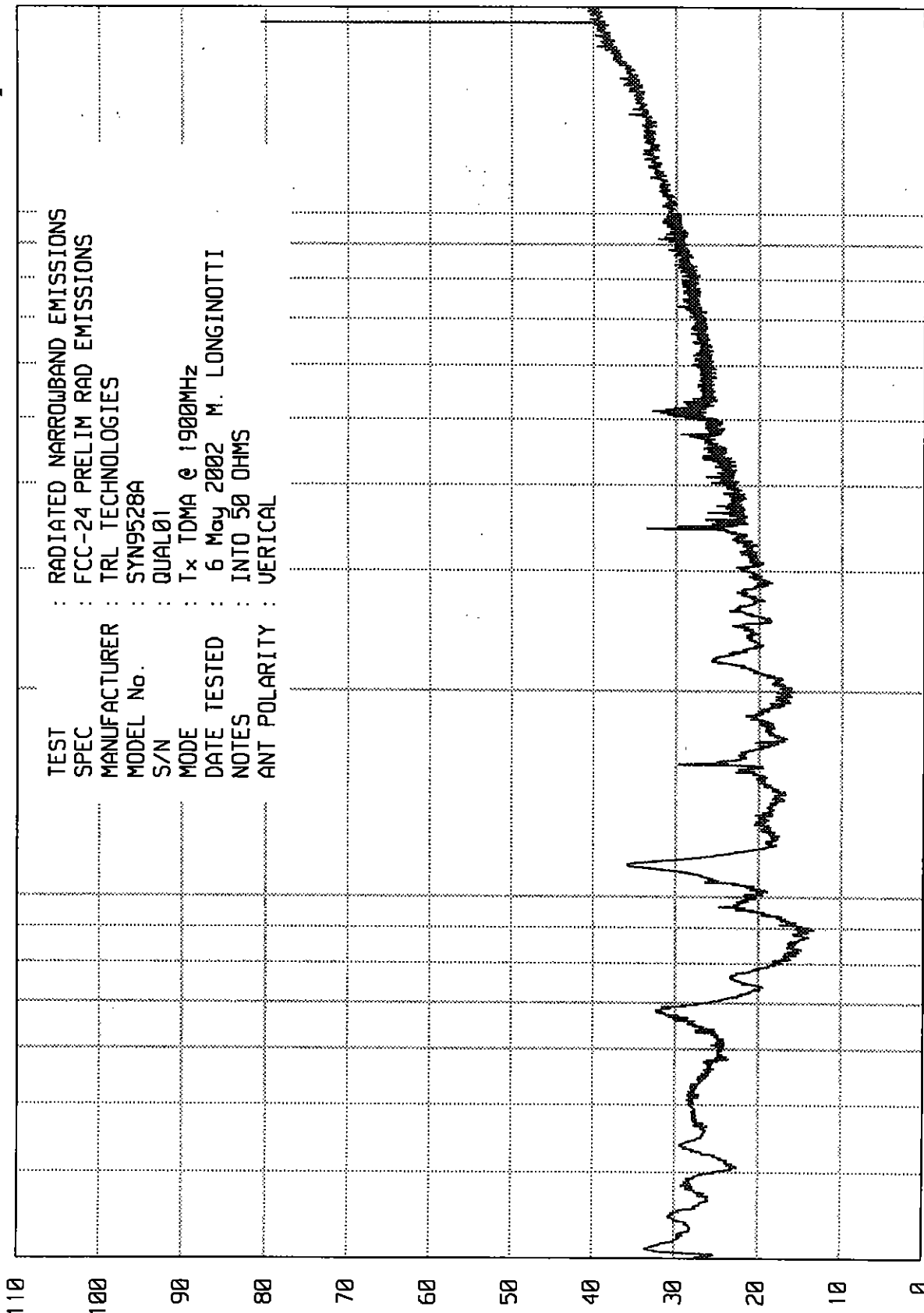
10000

STOP = 18000

# ELITE ELECTRONIC ENGINEERING Co. Downers Grove, Ill. 60515

UK908 11/26/01

UNITV\_EM RUN RUN 1



TEST : RADIATED NARROWBAND EMISSIONS  
SPEC : FCC-24 PRELIM RAD EMISSIONS  
MANUFACTURER : TRL TECHNOLOGIES  
MODEL No. : SYN9528A  
S/N : QVAL01  
MODE : Tx TDMA @ 1900MHz  
DATE TESTED : 6 May 2002 M. LONGINOTTI  
NOTES : INTO 50 OHMS  
ANT POLARITY : VERTICAL

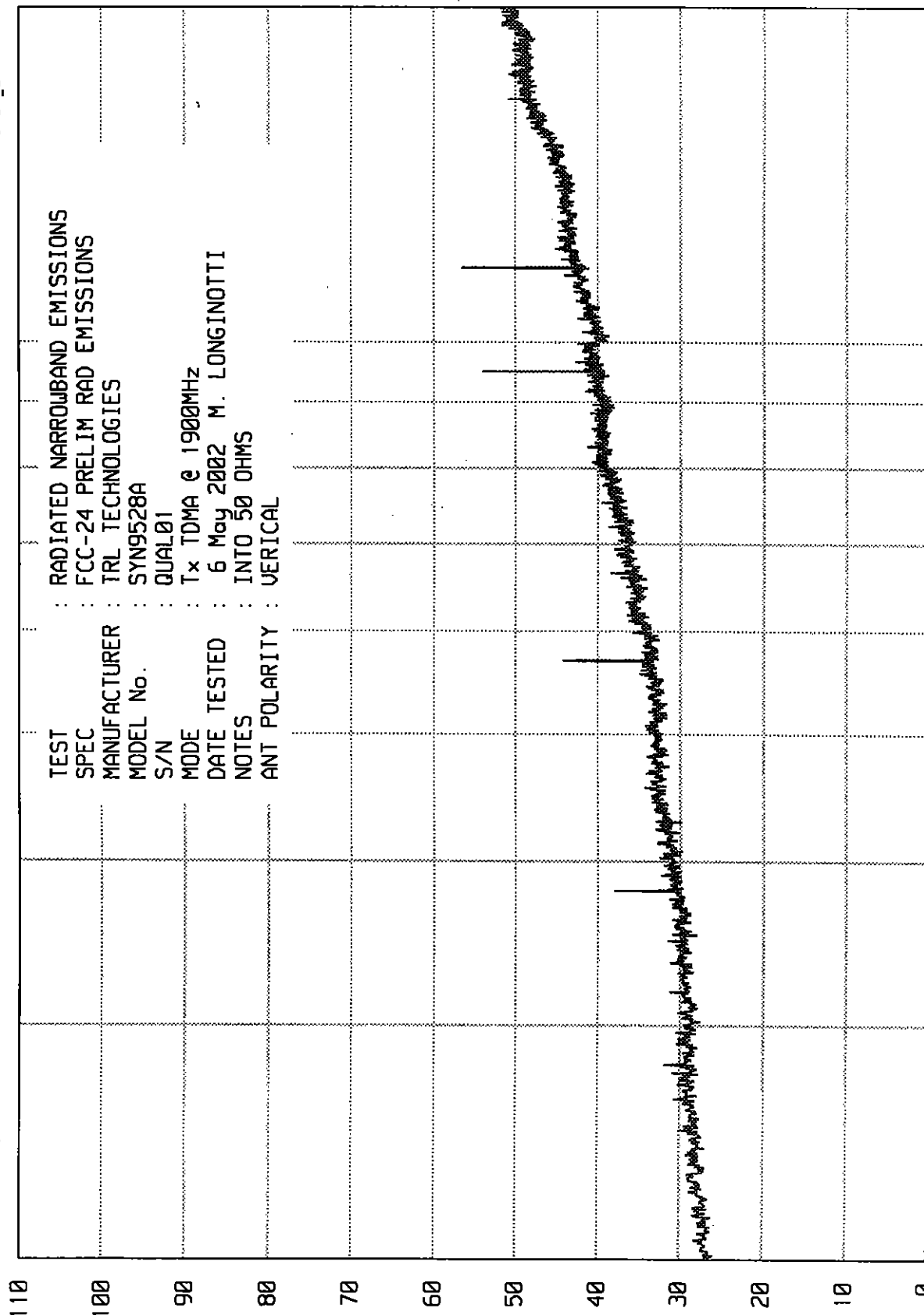
EE

# ELITE ELECTRONIC ENGINEERING Co.

Dawners Grove, Ill. 60515

WKA00 11/26/01

UNITU\_EM RUN RUN 3



RADIATED NARROWBAND EMISSIONS - dBu/m Data Page 188 of 198

ETR 30980-01

START = 2000

FREQUENCY - MHz

10000

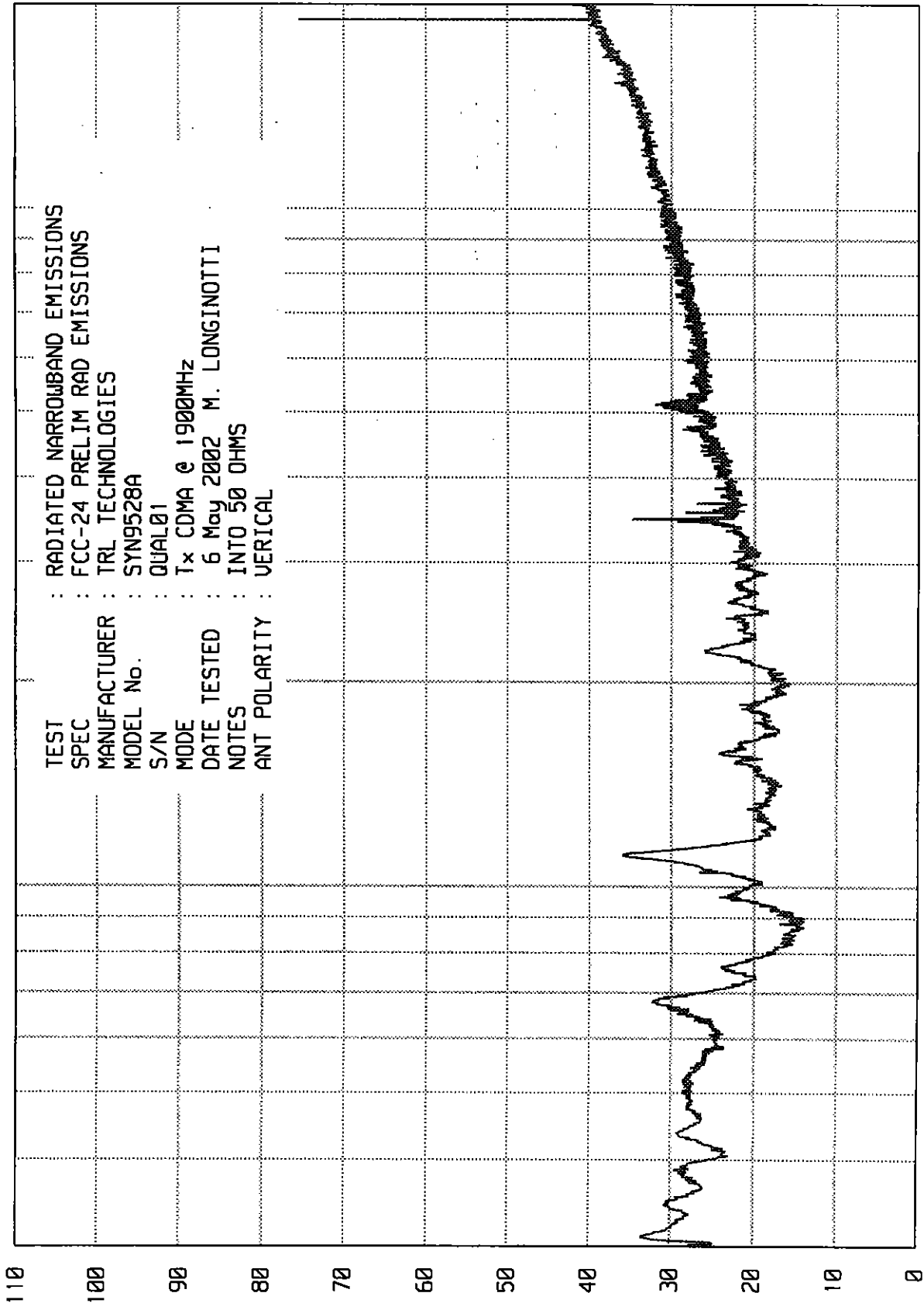
STOP = 18000

ELITE ELECTRONIC ENGINEERING Co.  
 Dawners Grove, Ill. 60515

UNIV\_EM RUN RUN 1

WKA08 11/26/01

TEST : RADIATED NARROWBAND EMISSIONS  
 SPEC : FCC-24 PRELIM RAD EMISSIONS  
 MANUFACTURER : TRL TECHNOLOGIES  
 MODEL No. : SYN9528A  
 S/N : QVAL01  
 MODE : Tx CDMA @ 1900MHz  
 DATE TESTED : 6 May 2002 M. LONGINOTTI  
 NOTES : INTO 50 OHMS  
 ANT POLARITY : VERTICAL



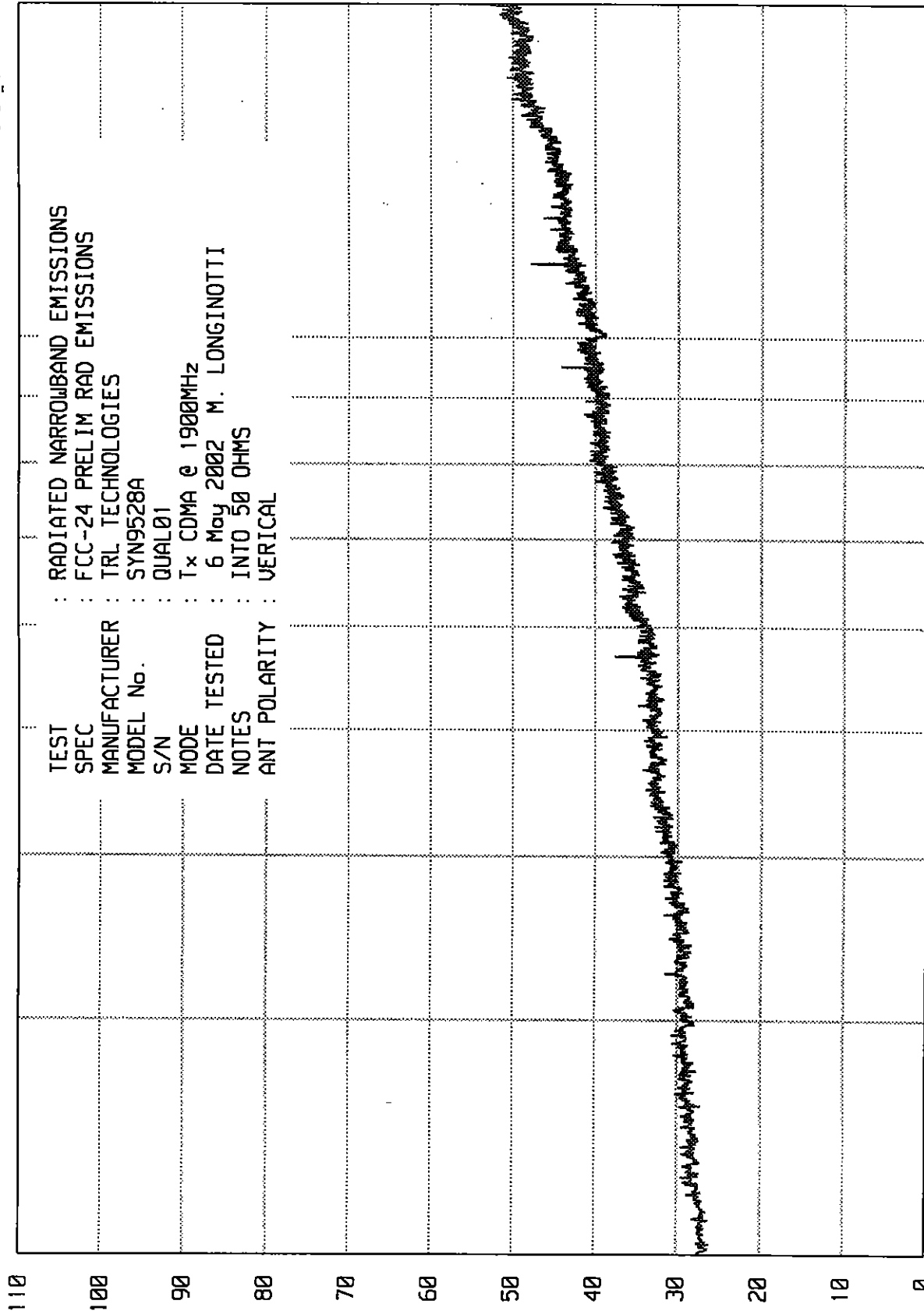
EE

ELITE ELECTRONIC ENGINEERING Co.

Downers Grove, Ill. 60515

WKA00 11/26/01

UNIT EM RUN RUN 3



RADIATED NARROWBAND EMISSIONS - dBu/m Data Page 190 of 198

ETR 30980-01

START = 2000

FREQUENCY - MHz

10000

STOP = 18000

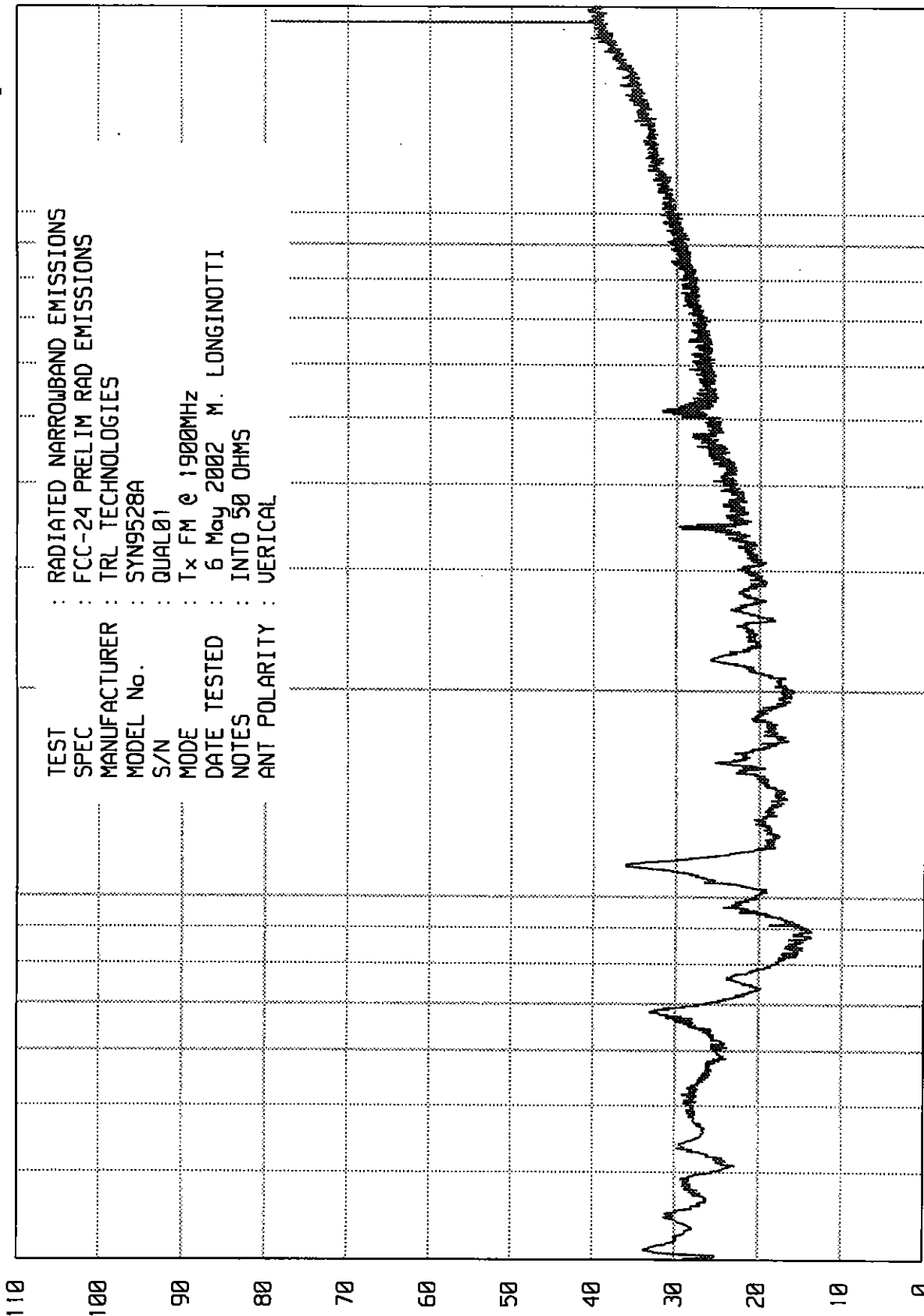
# ELITE ELECTRONIC ENGINEERING Co.

Downers Grove, Ill. 60515

UNIV\_EM RUN RUN 1

UK08 11/26/01

TEST : RADIATED NARROWBAND EMISSIONS  
 SPEC : FCC-24 PRELIM RAD EMISSIONS  
 MANUFACTURER : TRL TECHNOLOGIES  
 MODEL No. : SYN9528A  
 S/N : QUAL01  
 MODE : Tx FM @ 1900MHz  
 DATE TESTED : 6 May 2002 M. LONGINOTTI  
 NOTES : INTO 50 OHMS  
 ANT POLARITY : VERTICAL



START = 30

FREQUENCY - MHz

1000

STOP = 2000

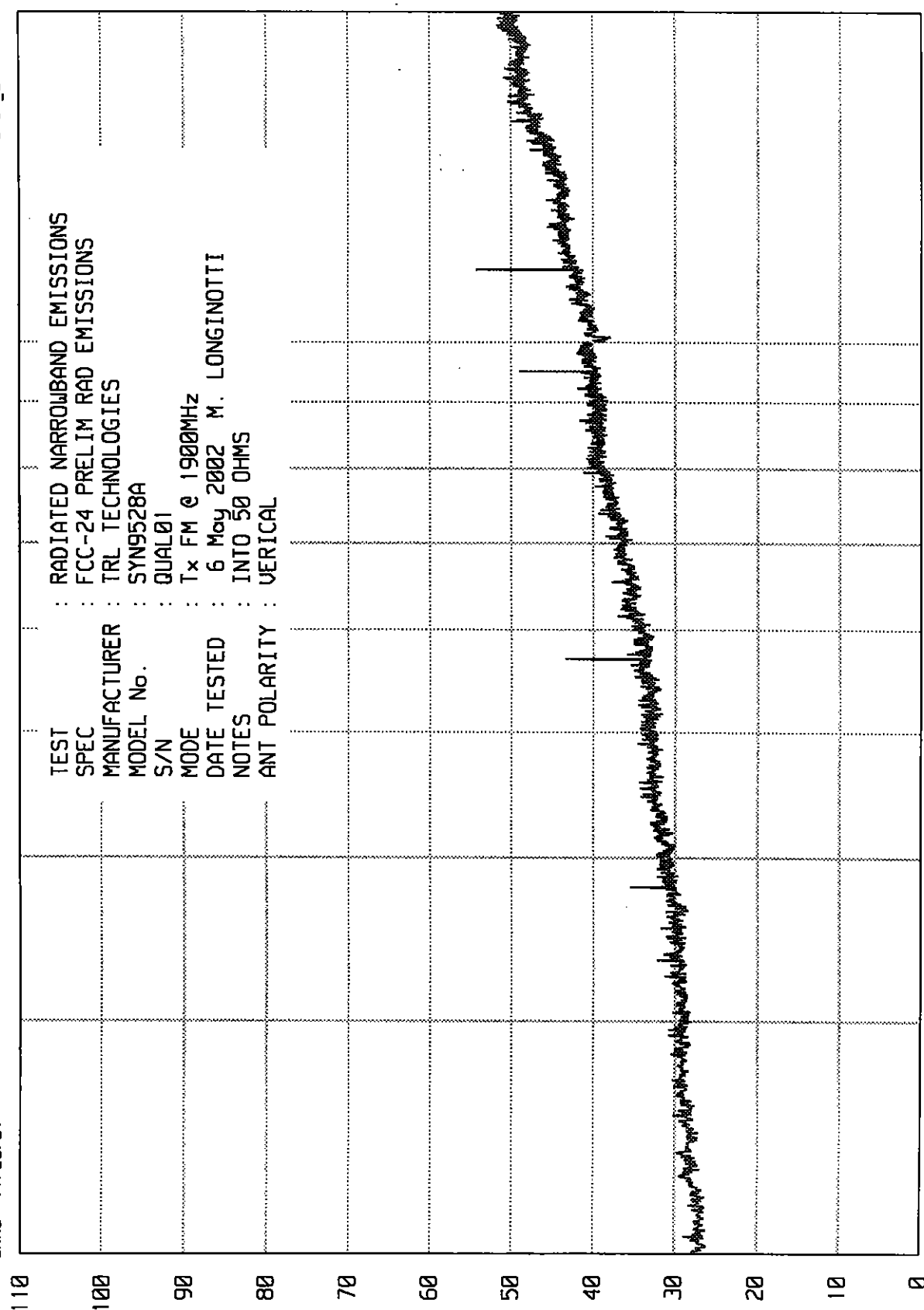
EE

ELITE ELECTRONIC ENGINEERING Co.

Downers Grove, Ill. 60515

WKA00 11/26/01

UNITU\_EM RUN RUN 3



START = 2000

FREQUENCY - MHz

10000

STOP = 18000



ETR 30980-01  
DATA SHEET

MANUFACTURER : TRL TECHNOLOGIES  
MODEL : SYN9528A  
S/N : QUAL01  
SPECIFICATION : FCC-24 OPEN FIELD SPURIOUS RADIATED EMISSIONS  
DATE : MAY 7, 2002  
NOTES : CW @ 1860MHz, FULL OUTPUT  
: TEST DISTANCE IS 3 METERS

| FREQ.<br>(MHz) | ANT<br>POL | MTR<br>RDG<br>(dBuV) | MATCHED<br>SIGNAL<br>dBm | ANT<br>GAIN<br>dB | CABLE<br>FAC<br>dB | ERP<br>TOTAL<br>dBm | ATTN<br>dB | MIN<br>ATTN<br>dB |
|----------------|------------|----------------------|--------------------------|-------------------|--------------------|---------------------|------------|-------------------|
| 3720.0         | H          | 51.8                 | -44.4                    | 5.6               | 3.5                | -42.3               | 69.3       | 40                |
| 3720.0         | V          | 62.6                 | -34.6                    | 5.6               | 3.5                | -32.5               | 59.5       | 40                |
| 5580.0         | H          | 51.8                 | -41.5                    | 6.8               | 4.4                | -39.1               | 66.1       | 40                |
| 5580.0         | V          | 48.7                 | -44.7                    | 6.8               | 4.4                | -42.3               | 69.3       | 40                |
| 7440.0         | H          | 50.8                 | -37.4                    | 7.3               | 5.8                | -35.9               | 62.9       | 40                |
| 7440.0         | V          | 53.6                 | -32.0                    | 7.3               | 5.8                | -30.5               | 57.5       | 40                |
| 9300.0         | H          | 50.8                 | -36.2                    | 8.1               | 6.3                | -34.4               | 61.4       | 40                |
| 9300.0         | V          | 54.4                 | -26.6                    | 8.1               | 6.3                | -24.8               | 51.8       | 40                |
| 11160.0        | H          | 44.4                 | -36.2                    | 7.8               | 6.9                | -35.3               | 62.3       | 40                |
| 11160.0        | V          | 43.2                 | -37.4                    | 7.8               | 6.9                | -36.5               | 63.5       | 40                |
| 13020.0        | H          | 49.2                 | -31.6                    | 8.6               | 7.5                | -30.5               | 57.5       | 40                |
| 13020.0        | V          | 46.3                 | -32.3                    | 8.6               | 7.5                | -31.2               | 58.2       | 40                |
| 14880.0        | H          | 43.1                 | -37.5                    | 7.7               | 8.1                | -37.9               | 64.9       | 40                |
| 14880.0        | V          | 43.5                 | -35.1                    | 7.7               | 8.1                | -35.5               | 62.5       | 40                |
| 16740.0        | H          | 43.3                 | -32.1                    | 8.3               | 8.2                | -32.0               | 59.0       | 40                |
| 16740.0        | V          | 43.9                 | -34.7                    | 8.3               | 8.2                | -34.6               | 61.6       | 40                |
| 18600.0        | H          | 46.2                 | -24.0                    | 7.6               | 9.0                | -25.4               | 52.4       | 40                |
| 18600.0        | V          | 45.0                 | -24.0                    | 7.6               | 9.0                | -25.4               | 52.4       | 40                |

CHECKED BY: *Mark E. Longinotti*  
Mark E. Longinotti



ETR 30980 -01  
DATA SHEET

MANUFACTURER : TRL TECHNOLOGIES  
MODEL : SYN9528A  
S/N : QUAL01  
SPECIFICATION : FCC-24 OPEN FIELD SPURIOUS RADIATED EMISSIONS  
DATE : MAY 7, 2002  
NOTES : GSM @ 1860MHz, FULL OUTPUT  
: TEST DISTANCE IS 3 METERS

| FREQ.<br>(MHz) | ANT<br>POL | MTR<br>RDG<br>(dBuV) | MATCHED<br>SIGNAL<br>dBm | ANT<br>GAIN<br>dB | CABLE<br>FAC<br>dB | ERP<br>TOTAL<br>dBm | ATTN<br>dB | MIN<br>ATTN<br>dB |
|----------------|------------|----------------------|--------------------------|-------------------|--------------------|---------------------|------------|-------------------|
| 3720.0         | H          | 58.2                 | -39.1                    | 5.6               | 3.5                | -37.0               | 67.0       | 43                |
| 3720.0         | V          | 56.8                 | -38.6                    | 5.6               | 3.5                | -36.5               | 66.5       | 43                |
| 5580.0         | H          | 56.9                 | -35.6                    | 6.8               | 4.4                | -33.2               | 63.2       | 43                |
| 5580.0         | V          | 51.9                 | -41.4                    | 6.8               | 4.4                | -39.0               | 69.0       | 43                |
| 7440.0         | H          | 60.0                 | -24.9                    | 7.3               | 5.8                | -23.4               | 53.4       | 43                |
| 7440.0         | V          | 58.8                 | -29.1                    | 7.3               | 5.8                | -27.6               | 57.6       | 43                |
| 9300.0         | H          | 53.1                 | -27.7                    | 8.1               | 6.3                | -25.9               | 55.9       | 43                |
| 9300.0         | V          | 57.3                 | -29.3                    | 8.1               | 6.3                | -27.5               | 57.5       | 43                |
| 11160.0        | H          | 51.2                 | -29.6                    | 7.8               | 6.9                | -28.7               | 58.7       | 43                |
| 11160.0        | V          | 47.8                 | -32.7                    | 7.8               | 6.9                | -31.8               | 61.8       | 43                |
| 13020.0        | H          | 51.2                 | -27.3                    | 8.6               | 7.5                | -26.2               | 56.2       | 43                |
| 13020.0        | V          | 46.4                 | -34.9                    | 8.6               | 7.5                | -33.8               | 63.8       | 43                |
| 14880.0        | H          | 42.4                 | -36.1                    | 7.7               | 8.1                | -36.5               | 66.5       | 43                |
| 14880.0        | V          | 42.3                 | -38.5                    | 7.7               | 8.1                | -38.9               | 68.9       | 43                |
| 16740.0        | H          | 42.1                 | -36.9                    | 8.3               | 8.2                | -36.8               | 66.8       | 43                |
| 16740.0        | V          | 43.1                 | -32.8                    | 8.3               | 8.2                | -32.7               | 62.7       | 43                |
| 18600.0        | H          | 46.8                 | -25.0                    | 7.6               | 9.0                | -26.4               | 56.4       | 43                |
| 18600.0        | V          | 44.8                 | -25.0                    | 7.6               | 9.0                | -26.4               | 56.4       | 43                |

CHECKED BY: *Mark E. Longinotti*  
Mark E. Longinotti



ETR 30980 - 01  
DATA SHEET

MANUFACTURER : TRL TECHNOLOGIES  
MODEL : SYN9528A  
S/N : QUAL01  
SPECIFICATION : FCC-24 OPEN FIELD SPURIOUS RADIATED EMISSIONS  
DATE : MAY 7, 2002  
NOTES : CW @ 1880MHz, FULL OUTPUT  
: TEST DISTANCE IS 3 METERS

| FREQ.<br>(MHz) | ANT<br>POL | MTR<br>RDG<br>(dBuV) | MATCHED<br>SIGNAL<br>dBm | ANT<br>GAIN<br>dB | CABLE<br>FAC<br>dB | ERP<br>TOTAL<br>dBm | ATTN<br>dB | MIN<br>ATTN<br>dB |
|----------------|------------|----------------------|--------------------------|-------------------|--------------------|---------------------|------------|-------------------|
| 3760.0         | H          | 56.5                 | -39.5                    | 5.6               | 3.5                | -37.4               | 64.4       | 40                |
| 3760.0         | V          | 55.7                 | -39.9                    | 5.6               | 3.5                | -37.8               | 64.8       | 40                |
| 5640.0         | H          | 57.3                 | -35.1                    | 6.7               | 4.4                | -32.8               | 59.8       | 40                |
| 5640.0         | V          | 51.9                 | -39.8                    | 6.7               | 4.4                | -37.5               | 64.5       | 40                |
| 7520.0         | H          | 51.5                 | -37.9                    | 7.2               | 5.9                | -36.6               | 63.6       | 40                |
| 7520.0         | V          | 50.6                 | -37.2                    | 7.2               | 5.9                | -35.9               | 62.9       | 40                |
| 9400.0         | H          | 49.2                 | -33.4                    | 8.1               | 6.3                | -31.6               | 58.6       | 40                |
| 9400.0         | V          | 51.6                 | -34.9                    | 8.1               | 6.3                | -33.1               | 60.1       | 40                |
| 11280.0        | H          | 54.7                 | -27.9                    | 7.8               | 7.0                | -27.1               | 54.1       | 40                |
| 11280.0        | V          | 50.2                 | -31.6                    | 7.8               | 7.0                | -30.8               | 57.8       | 40                |
| 13160.0        | H          | 47.4                 | -33.3                    | 8.5               | 7.5                | -32.3               | 59.3       | 40                |
| 13160.0        | V          | 44.4                 | -37.6                    | 8.5               | 7.5                | -36.6               | 63.6       | 40                |
| 15040.0        | H          | 41.8                 | -36.6                    | 7.7               | 8.1                | -37.0               | 64.0       | 40                |
| 15040.0        | V          | 43.8                 | -34.4                    | 7.7               | 8.1                | -34.8               | 61.8       | 40                |
| 16920.0        | H          | 43.6                 | -32.1                    | 8.3               | 8.1                | -31.9               | 58.9       | 40                |
| 16920.0        | V          | 43.6                 | -33.6                    | 8.3               | 8.1                | -33.4               | 60.4       | 40                |
| 18800.0        | H          | 44.4                 | -32.0                    | 7.7               | 9.0                | -33.3               | 60.3       | 40                |
| 18800.0        | V          | 45.8                 | -31.0                    | 7.7               | 9.0                | -32.3               | 59.3       | 40                |

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Mark E. Longinotti



ETR 30980 - 01  
DATA SHEET

MANUFACTURER : TRL TECHNOLOGIES  
MODEL : SYN9528A  
S/N : QUAL01  
SPECIFICATION : FCC-24 OPEN FIELD SPURIOUS RADIATED EMISSIONS  
DATE : MAY 7, 2002  
NOTES : GSM @ 1880MHz, FULL OUTPUT  
: TEST DISTANCE IS 3 METERS

| FREQ.<br>(MHz) | ANT<br>POL | MTR<br>RDG<br>(dBuV) | MATCHED<br>SIGNAL<br>dBm | ANT<br>GAIN<br>dB | CABLE<br>FAC<br>dB | ERP<br>TOTAL<br>dBm | ATTN<br>dB | MIN<br>ATTN<br>dB |
|----------------|------------|----------------------|--------------------------|-------------------|--------------------|---------------------|------------|-------------------|
| 3760.0         | H          | 60.8                 | -34.9                    | 5.6               | 3.5                | -32.8               | 62.8       | 43                |
| 3760.0         | V          | 60.9                 | -34.1                    | 5.6               | 3.5                | -32.0               | 62.0       | 43                |
| 5640.0         | H          | 66.9                 | -25.4                    | 6.7               | 4.4                | -23.1               | 53.1       | 43                |
| 5640.0         | V          | 53.6                 | -38.6                    | 6.7               | 4.4                | -36.3               | 66.3       | 43                |
| 7520.0         | H          | 51.3                 | -38.3                    | 7.2               | 5.9                | -37.0               | 67.0       | 43                |
| 7520.0         | V          | 54.7                 | -32.5                    | 7.2               | 5.9                | -31.2               | 61.2       | 43                |
| 9400.0         | H          | 54.3                 | -28.4                    | 8.1               | 6.3                | -26.6               | 56.6       | 43                |
| 9400.0         | V          | 56.2                 | -30.2                    | 8.1               | 6.3                | -28.4               | 58.4       | 43                |
| 11280.0        | H          | 56.1                 | -26.3                    | 7.8               | 7.0                | -25.5               | 55.5       | 43                |
| 11280.0        | V          | 52.3                 | -29.6                    | 7.8               | 7.0                | -28.8               | 58.8       | 43                |
| 13160.0        | H          | 48.2                 | -32.5                    | 8.5               | 7.5                | -31.5               | 61.5       | 43                |
| 13160.0        | V          | 43.2                 | -38.9                    | 8.5               | 7.5                | -37.9               | 67.9       | 43                |
| 15040.0        | H          | 42.7                 | -35.6                    | 7.7               | 8.1                | -36.0               | 66.0       | 43                |
| 15040.0        | V          | 42.6                 | -35.0                    | 7.7               | 8.1                | -35.4               | 65.4       | 43                |
| 16920.0        | H          | 42.4                 | -33.5                    | 8.3               | 8.1                | -33.3               | 63.3       | 43                |
| 16920.0        | V          | 42.3                 | -34.7                    | 8.3               | 8.1                | -34.5               | 64.5       | 43                |
| 18800.0        | H          | 46.4                 | -33.0                    | 7.7               | 9.0                | -34.3               | 64.3       | 43                |
| 18800.0        | V          | 44.6                 | -34.0                    | 7.7               | 9.0                | -35.3               | 65.3       | 43                |

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DATA SHEET

MANUFACTURER : TRL TECHNOLOGIES  
MODEL : SYN9528A  
S/N : QUAL01  
SPECIFICATION : FCC-24 OPEN FIELD SPURIOUS RADIATED EMISSIONS  
DATE : MAY 7, 2002  
NOTES : CW @ 1900MHz, FULL OUTPUT  
: TEST DISTANCE IS 3 METERS

| FREQ.<br>(MHz) | ANT<br>POL | MTR<br>RDG<br>(dBuV) | MATCHED<br>SIGNAL<br>dBm | ANT<br>GAIN<br>dB | CABLE<br>FAC<br>dB | ERP<br>TOTAL<br>dBm | ATTN<br>dB | MIN<br>ATTN<br>dB |
|----------------|------------|----------------------|--------------------------|-------------------|--------------------|---------------------|------------|-------------------|
| 3800.0         | H          | 52.9                 | -42.6                    | 5.6               | 3.5                | -40.5               | 67.5       | 40                |
| 3800.0         | V          | 56.1                 | -40.9                    | 5.6               | 3.5                | -38.8               | 65.8       | 40                |
| 5700.0         | H          | 52.6                 | -40.2                    | 6.8               | 4.4                | -37.8               | 64.8       | 40                |
| 5700.0         | V          | 50.7                 | -41.9                    | 6.8               | 4.4                | -39.5               | 66.5       | 40                |
| 7600.0         | H          | 53.0                 | -40.6                    | 7.3               | 5.9                | -39.2               | 66.2       | 40                |
| 7600.0         | V          | 51.1                 | -37.4                    | 7.3               | 5.9                | -36.0               | 63.0       | 40                |
| 9500.0         | H          | 51.3                 | -35.3                    | 8.1               | 6.3                | -33.5               | 60.5       | 40                |
| 9500.0         | V          | 49.5                 | -36.8                    | 8.1               | 6.3                | -35.0               | 62.0       | 40                |
| 11400.0        | H          | 54.2                 | -28.6                    | 7.9               | 7.0                | -27.7               | 54.7       | 40                |
| 11400.0        | V          | 51.2                 | -33.4                    | 7.9               | 7.0                | -32.5               | 59.5       | 40                |
| 13300.0        | H          | 44.9                 | -37.7                    | 8.5               | 7.6                | -36.8               | 63.8       | 40                |
| 13300.0        | V          | 41.5                 | -39.5                    | 8.5               | 7.6                | -38.6               | 65.6       | 40                |
| 15200.0        | H          | 43.3                 | -37.1                    | 7.8               | 8.2                | -37.5               | 64.5       | 40                |
| 15200.0        | V          | 42.6                 | -34.0                    | 7.8               | 8.2                | -34.4               | 61.4       | 40                |
| 17100.0        | H          | 43.2                 | -30.0                    | 8.3               | 8.2                | -29.9               | 56.9       | 40                |
| 17100.0        | V          | 42.9                 | -35.9                    | 8.3               | 8.2                | -35.8               | 62.8       | 40                |
| 19000.0        | H          | 45.7                 | -34.0                    | 7.8               | 9.0                | -35.2               | 62.2       | 40                |
| 19000.0        | V          | 47.5                 | -35.0                    | 7.8               | 9.0                | -36.2               | 63.2       | 40                |

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DATA SHEET

MANUFACTURER : TRL TECHNOLOGIES  
MODEL : SYN9528A  
S/N : QUAL01  
SPECIFICATION : FCC-24 OPEN FIELD SPURIOUS RADIATED EMISSIONS  
DATE : MAY 7, 2002  
NOTES : GSM @ 1900MHz, FULL OUTPUT  
: TEST DISTANCE IS 3 METERS

| FREQ.<br>(MHz) | ANT<br>POL | MTR<br>RDG<br>(dBuV) | MATCHED<br>SIGNAL<br>dBm | ANT<br>GAIN<br>dB | CABLE<br>FAC<br>dB | ERP<br>TOTAL<br>dBm | ATTN<br>dB | MIN<br>ATTN<br>dB |
|----------------|------------|----------------------|--------------------------|-------------------|--------------------|---------------------|------------|-------------------|
| 3800.0         | H          | 58.6                 | -36.7                    | 5.6               | 3.5                | -34.6               | 64.6       | 43                |
| 3800.0         | V          | 57.4                 | -39.1                    | 5.6               | 3.5                | -37.0               | 67.0       | 43                |
| 5700.0         | H          | 67.3                 | -25.0                    | 6.8               | 4.4                | -22.6               | 52.6       | 43                |
| 5700.0         | V          | 61.0                 | -30.1                    | 6.8               | 4.4                | -27.7               | 57.7       | 43                |
| 7600.0         | H          | 57.9                 | -35.2                    | 7.3               | 5.9                | -33.8               | 63.8       | 43                |
| 7600.0         | V          | 59.3                 | -29.5                    | 7.3               | 5.9                | -28.1               | 58.1       | 43                |
| 9500.0         | H          | 55.7                 | -30.1                    | 8.1               | 6.3                | -28.3               | 58.3       | 43                |
| 9500.0         | V          | 58.3                 | -27.6                    | 8.1               | 6.3                | -25.8               | 55.8       | 43                |
| 11400.0        | H          | 63.1                 | -19.0                    | 7.9               | 7.0                | -18.1               | 48.1       | 43                |
| 11400.0        | V          | 57.2                 | -27.2                    | 7.9               | 7.0                | -26.3               | 56.3       | 43                |
| 13300.0        | H          | 53.0                 | -57.0                    | 8.5               | 7.6                | -56.1               | 86.1       | 43                |
| 13300.0        | V          | 53.1                 | -27.4                    | 8.5               | 7.6                | -26.5               | 56.5       | 43                |
| 15200.0        | H          | 42.8                 | -37.6                    | 7.8               | 8.2                | -38.0               | 68.0       | 43                |
| 15200.0        | V          | 48.4                 | -28.6                    | 7.8               | 8.2                | -29.0               | 59.0       | 43                |
| 17100.0        | H          | 43.1                 | -33.1                    | 8.3               | 8.2                | -33.0               | 63.0       | 43                |
| 17100.0        | V          | 43.9                 | -34.7                    | 8.3               | 8.2                | -34.6               | 64.6       | 43                |
| 19000.0        | H          | 44.4                 | -34.0                    | 7.8               | 9.0                | -35.2               | 65.2       | 43                |
| 19000.0        | V          | 44.9                 | -35.0                    | 7.8               | 9.0                | -36.2               | 66.2       | 43                |

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