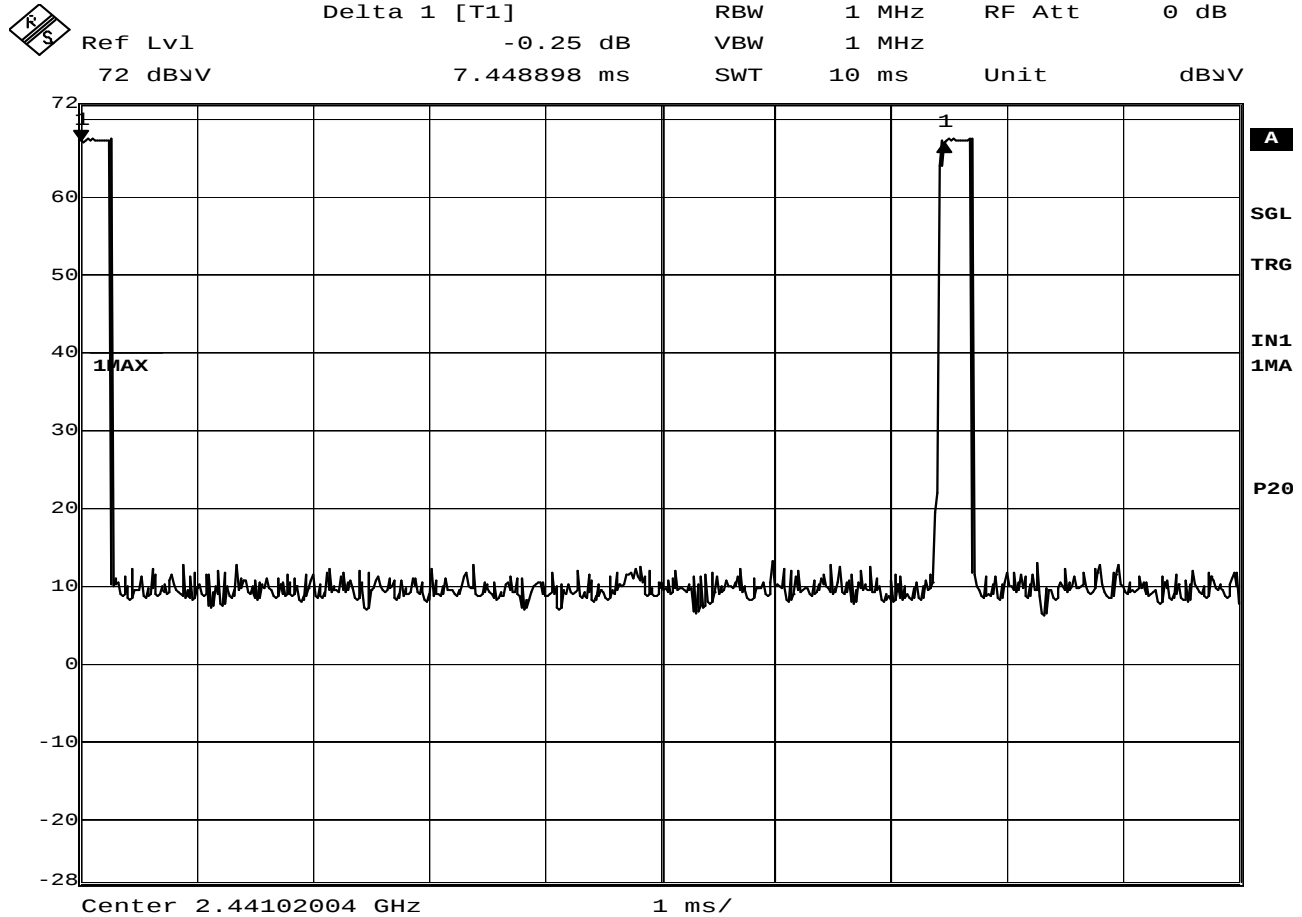




Date: 25.JAN.2010 22:15:48

**FCC DUTY CYCLE CORRECTION FACTOR**

MANUFACTURER : Turning Technologies  
MODEL NUMBER : RCRX-02  
SERIAL NUMBER : 15  
TEST MODE : Tx @ 2441MHz Large Packets  
TEST DATE : January 25, 2010  
TEST PARAMETERS : Pulse width is 274.55usec. The fastest repetition rate is 1 pulse every  
: 7.45 msec.  
: Duty cycle correction factor =  $20 \log (\text{word on time} / \text{total word length})$   
: Duty cycle correction factor =  $20 \log (0.27456 \text{ msec} / 7.45 \text{ msec})$   
: Duty cycle correction factor = -29.6dB

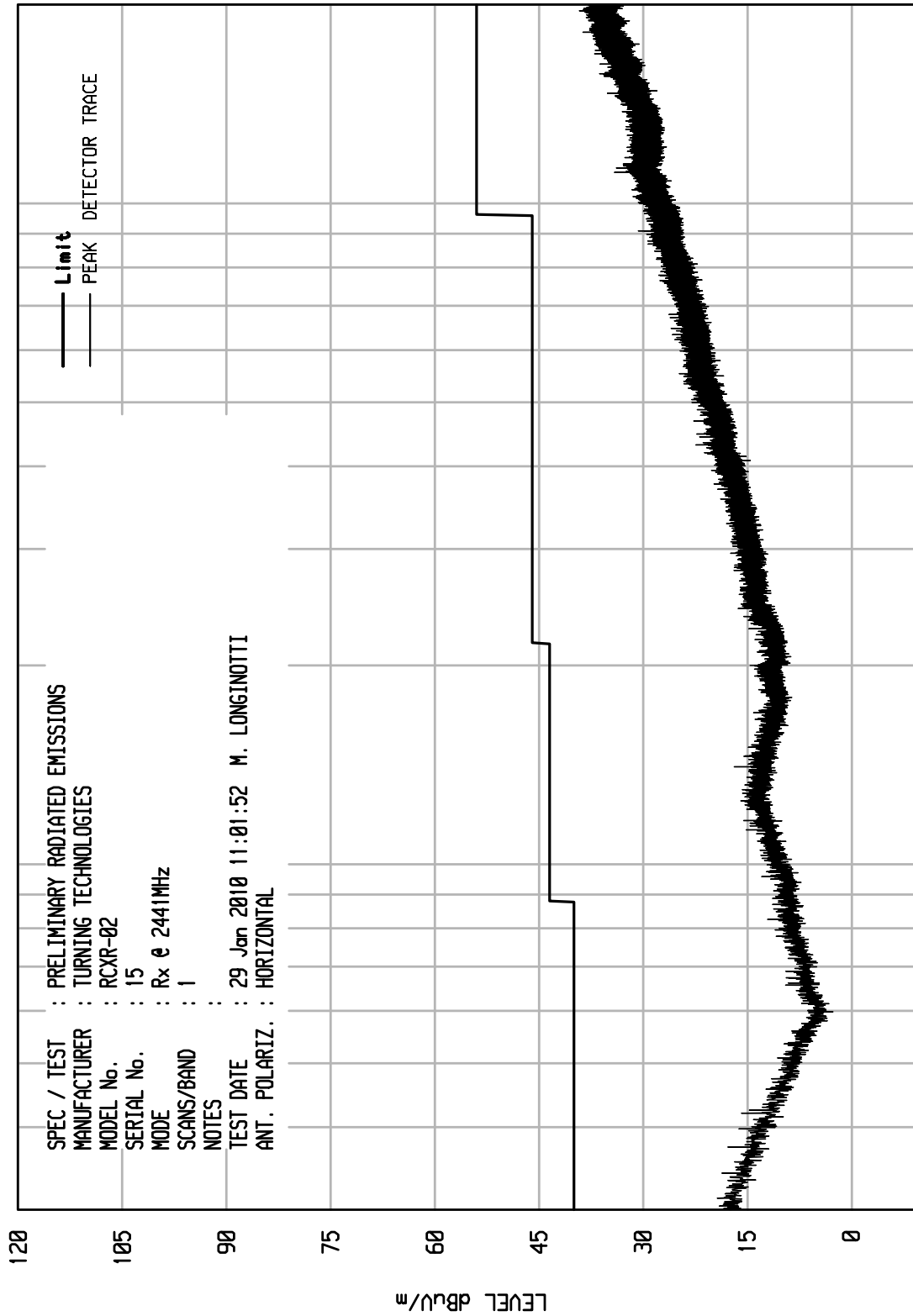
NOTES :  
EQUIPMENT USED : RBB0, NWI0

ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNIU RCU EMI RUN 15

WKA1 01/30/09



STOP = 2000

START = 30

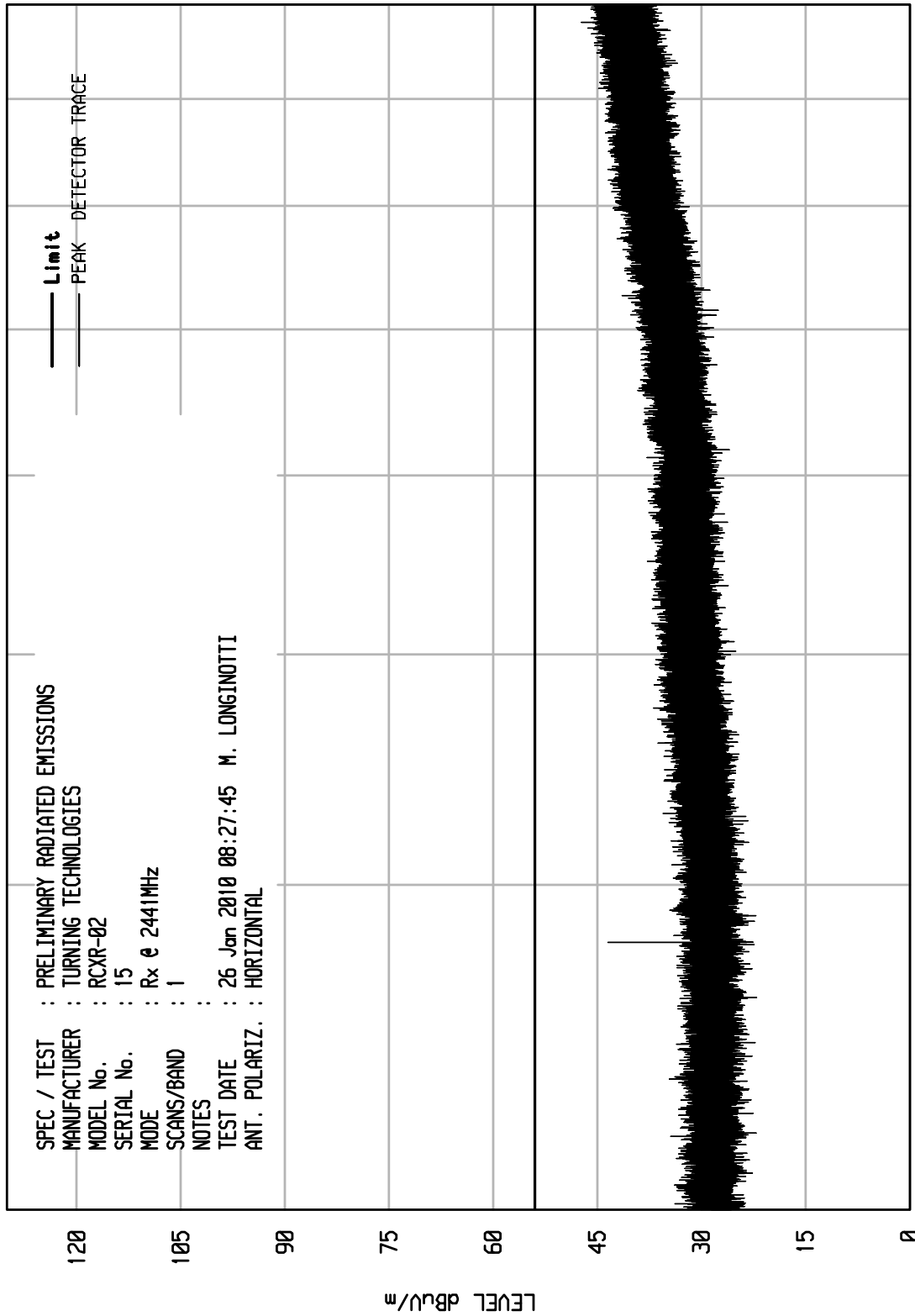


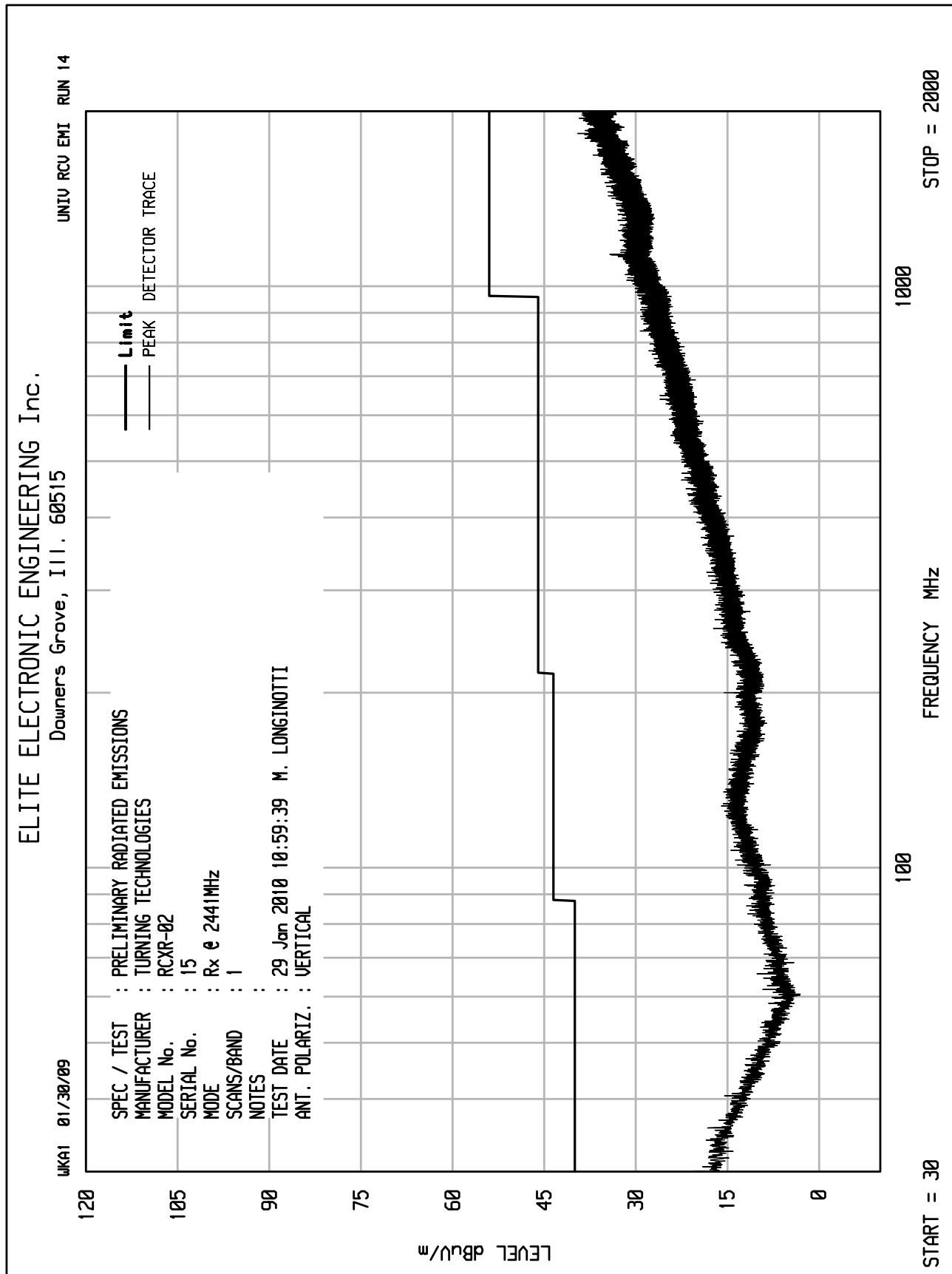
ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

WKA1 01/30/09

UNITV RCU EMI RUN 10





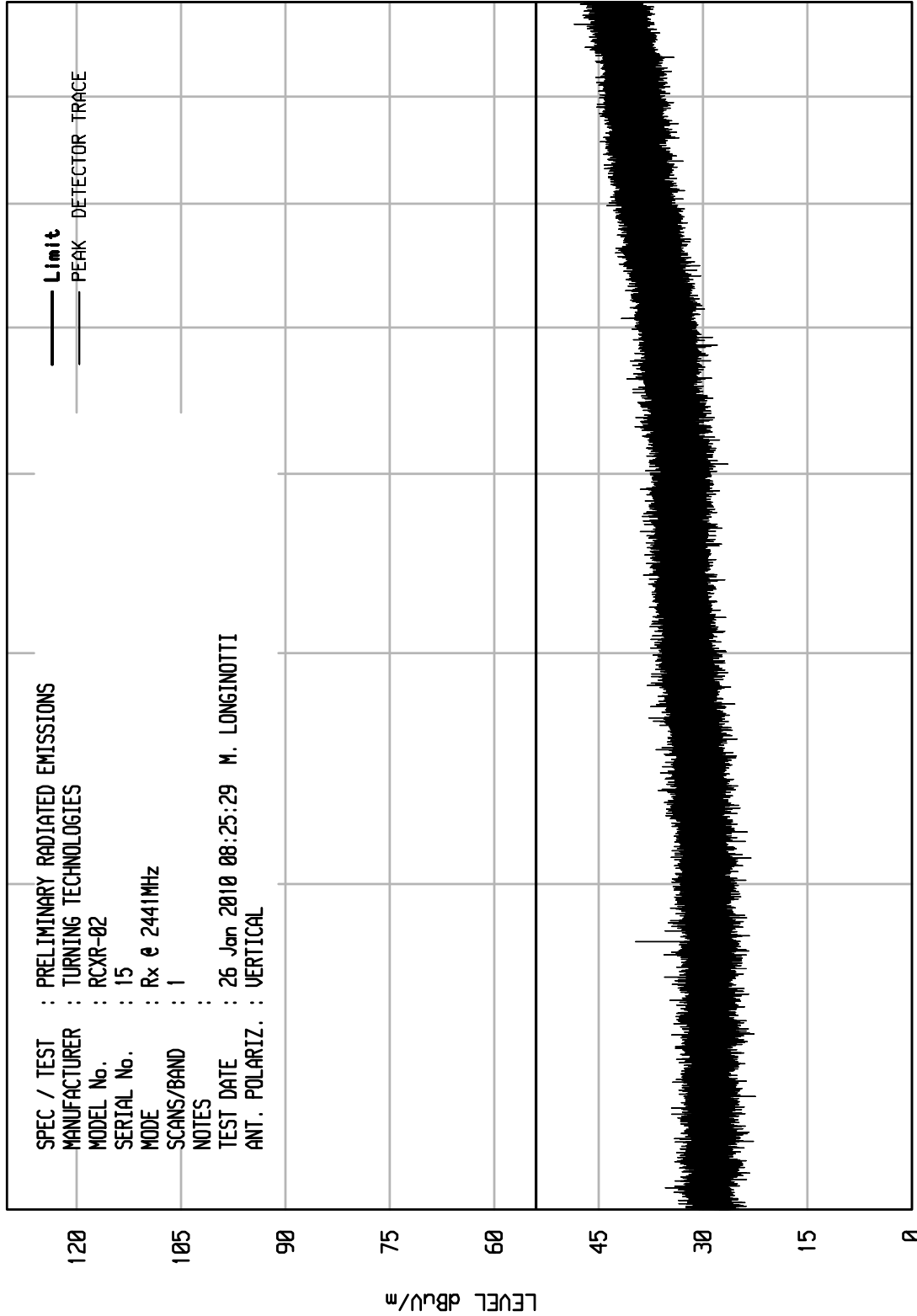


ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

WKA1 01/30/09

UNITV RCU EMI RUN 9





Manufacturer : Turning Technologies  
Model No. : RCXR-02 Transceiver  
Serial No. : 15  
Mode : receive at 2441MHz  
Test Specification : Industry Canada RSS-Gen, Section 7.2.3, for receivers  
Date : January 26, 2010  
Test Distance : 3 meters

| Freq<br>(MHz) | Ant<br>Pol | Meter<br>Readin<br>g<br>(dBuV) | Amb | CBL<br>Fac<br>(dB) | Ant<br>Fac<br>(dB) | Pre<br>Amp<br>(dB) | Total<br>dBuV/m<br>at 3 m | Total<br>uV/m<br>at 3m | Limit<br>at 3m | Margin<br>(dB) |
|---------------|------------|--------------------------------|-----|--------------------|--------------------|--------------------|---------------------------|------------------------|----------------|----------------|
| 2792.0<br>0   | H          | 53.6                           |     | 4.0                | 31.6               | -37.3              | 51.9                      | 393.7                  | 500.0          | -2.1           |
| 2792.0<br>0   | V          | 43.1                           |     | 4.0                | 31.6               | -37.3              | 41.4                      | 117.5                  | 500.0          | -12.6          |
| 5584.0<br>0   | H          | 30.7                           | Amb | 6.3                | 35.9               | -35.9              | 37.0                      | 71.2                   | 500.0          | -16.9          |
| 5584.0<br>0   | V          | 30.7                           | Amb | 6.3                | 35.9               | -35.9              | 37.0                      | 71.2                   | 500.0          | -16.9          |
| 8376.0<br>0   | H          | 31.0                           | Amb | 8.2                | 38.7               | -35.5              | 42.5                      | 133.1                  | 500.0          | -11.5          |
| 8376.0<br>0   | V          | 30.9                           | Amb | 8.2                | 38.7               | -35.5              | 42.4                      | 131.5                  | 500.0          | -11.6          |

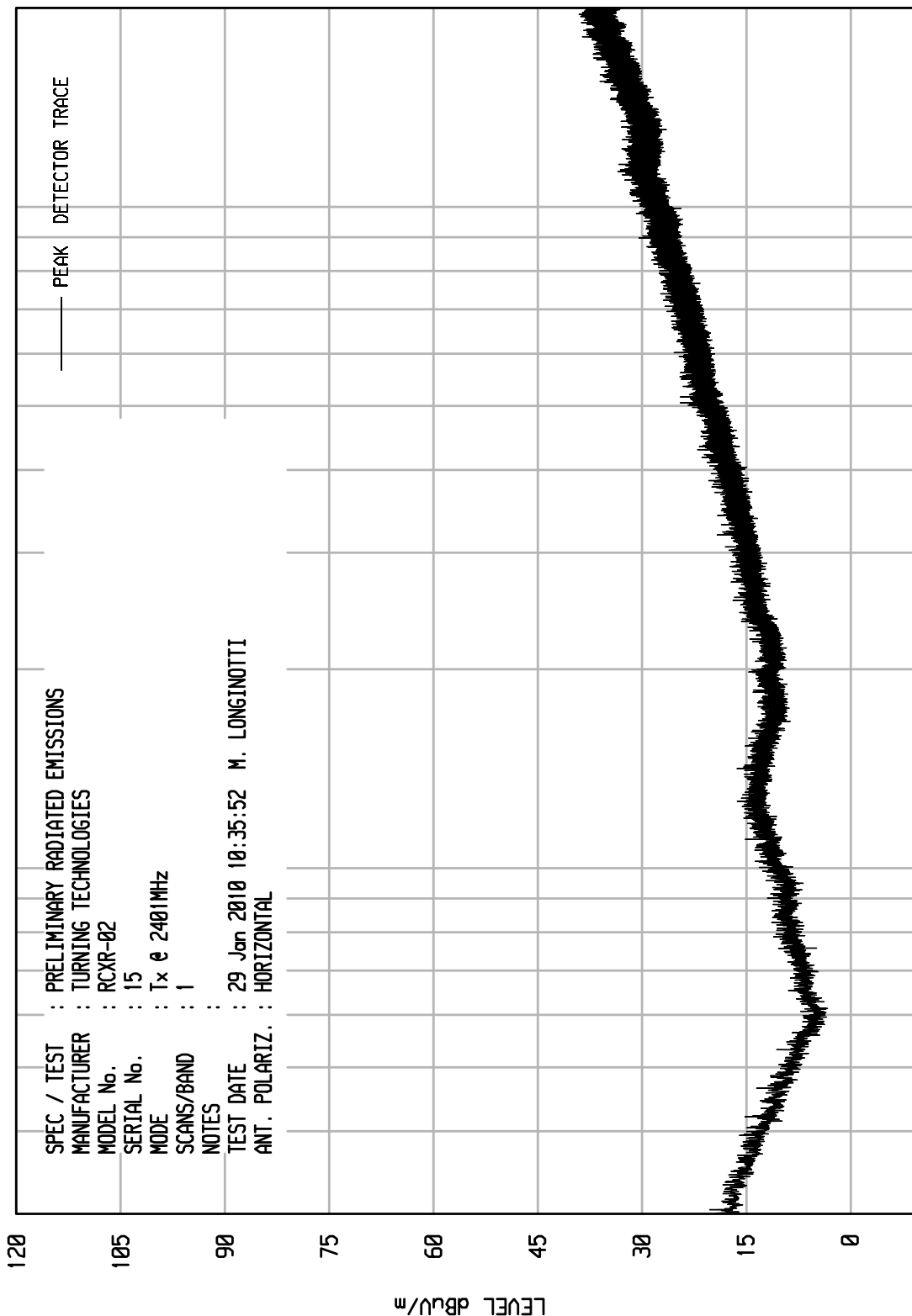
Total (dBuV/m) = Meter reading + Cbl Factor + Ant Fac + Pre Amp

Checked By: MARK E. LONGINOTTI  
Mark E. Longinotti

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 7

UKAI 01/30/09

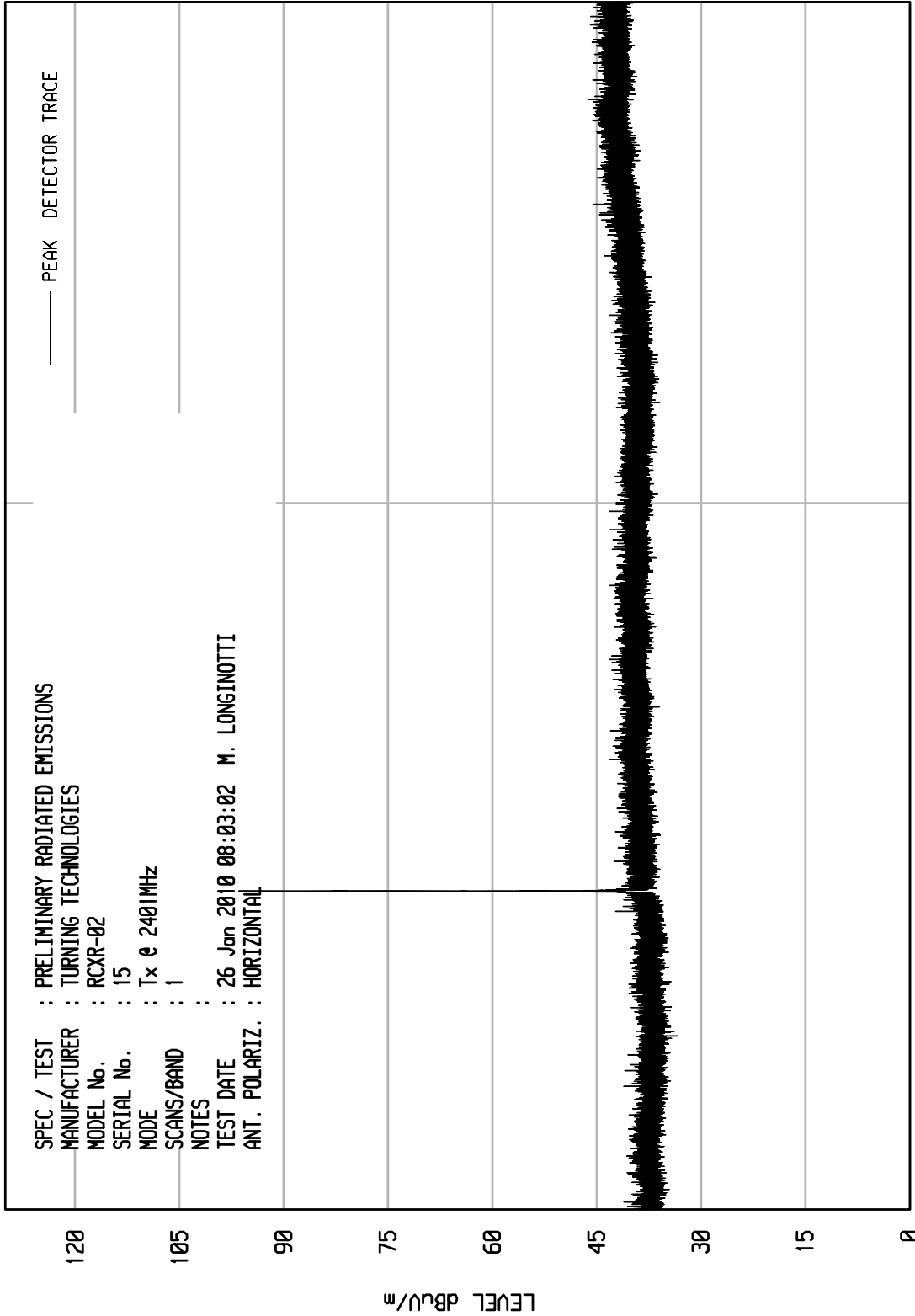




ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/30/09

UNIU RCU EMI RUN 1



START = 2000

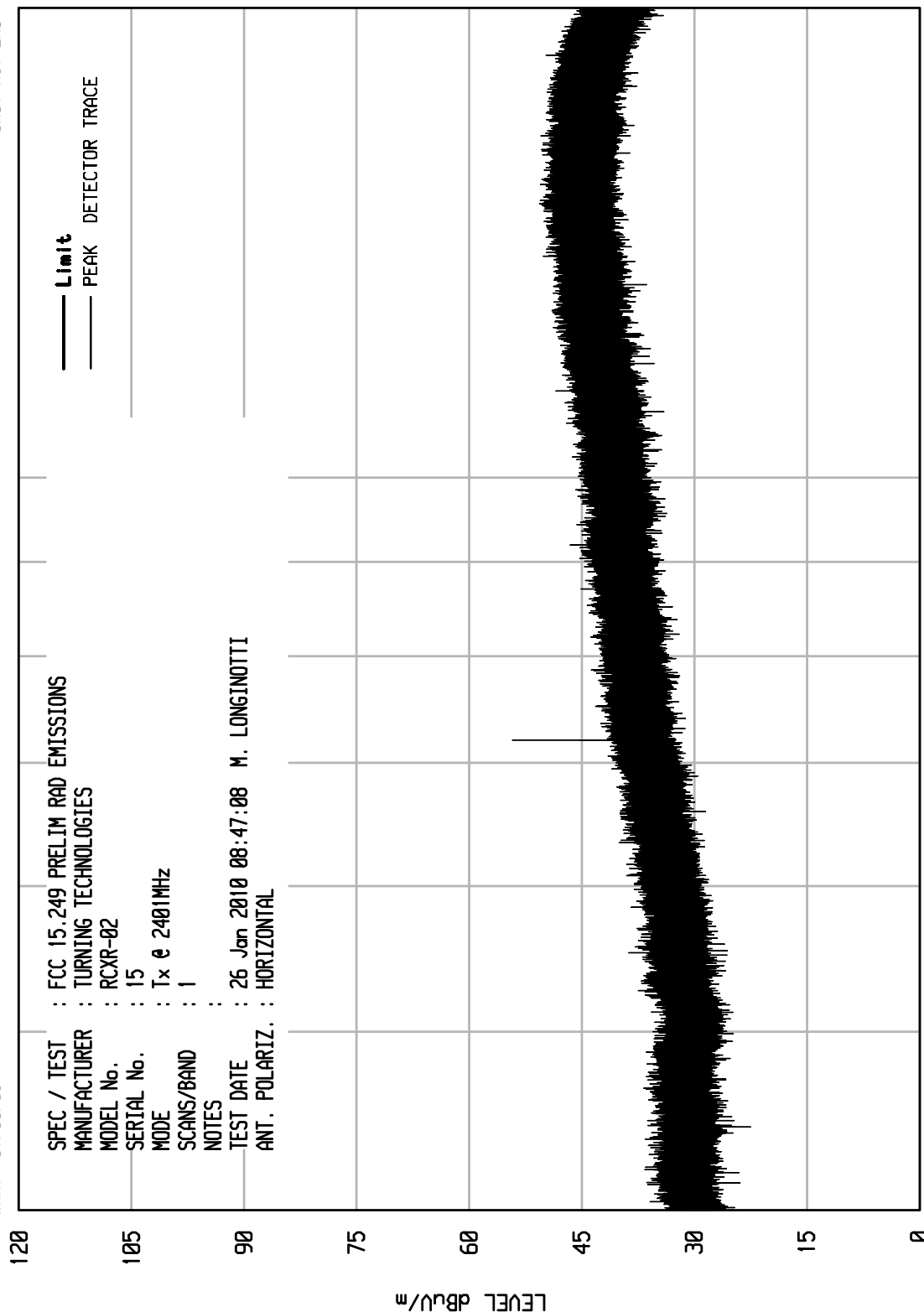
STOP = 4000



ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 12

WKA1 01/30/09



START = 4000

STOP = 18000



ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 8

WKA1 01/30/09

SPEC / TEST : PRELIMINARY RADIATED EMISSIONS  
MANUFACTURER : TURNING TECHNOLOGIES  
MODEL No. : RCXR-02  
SERIAL No. : 15  
MODE : Tx @ 2401MHz  
SCANS/BAND : 1  
NOTES :  
TEST DATE : 27 Jan 2010 10:11:24 M. LONGINOTTI  
ANT. POLARIZ. : HORIZONTAL

— PEAK DETECTOR TRACE

120

105

90

LEVEL dBuV/m

75

60

45

30

15

0

START = 18000

FREQUENCY MHz

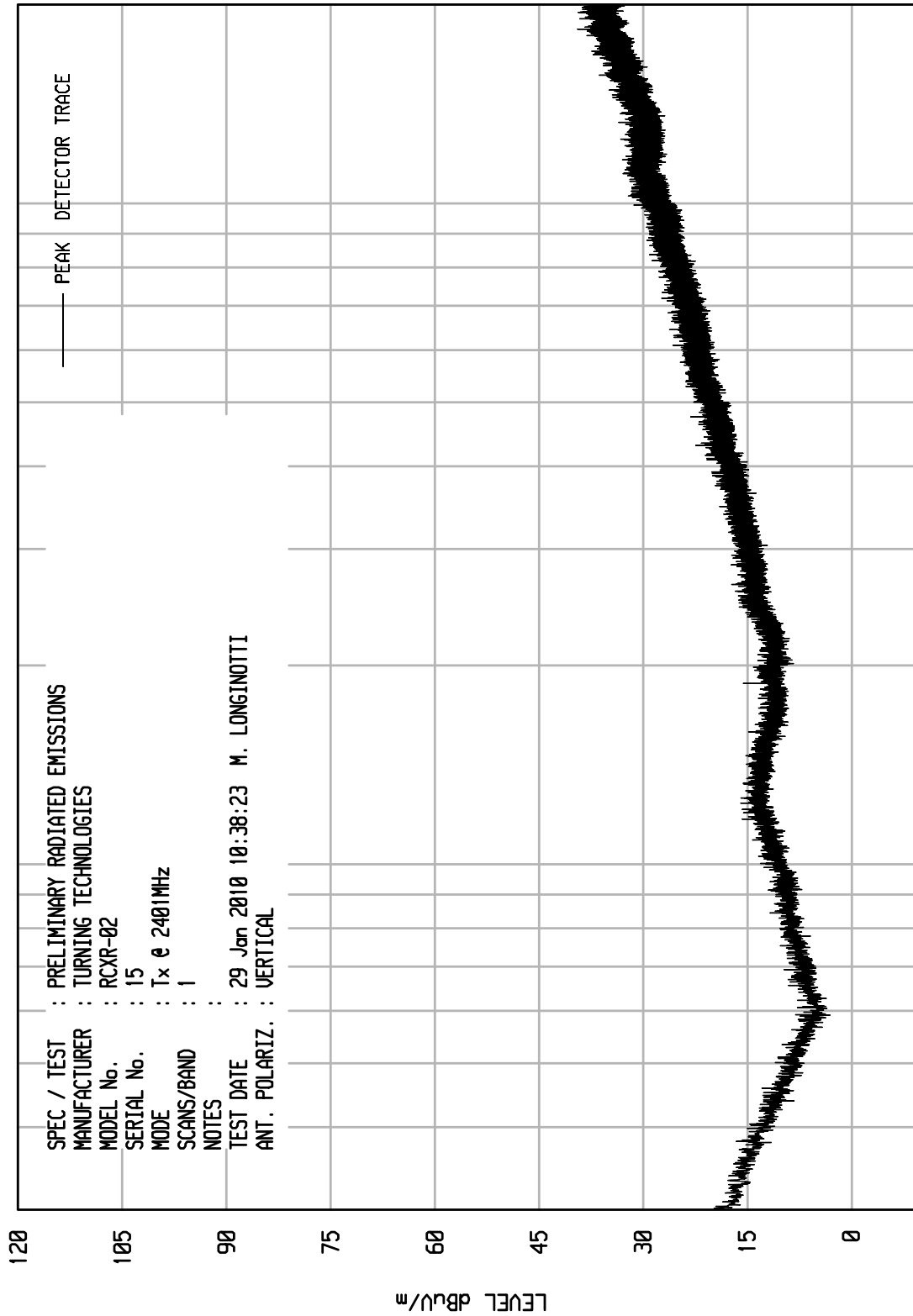
STOP = 25000



ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 8

UKAI 01/30/09



STOP = 2000

START = 30



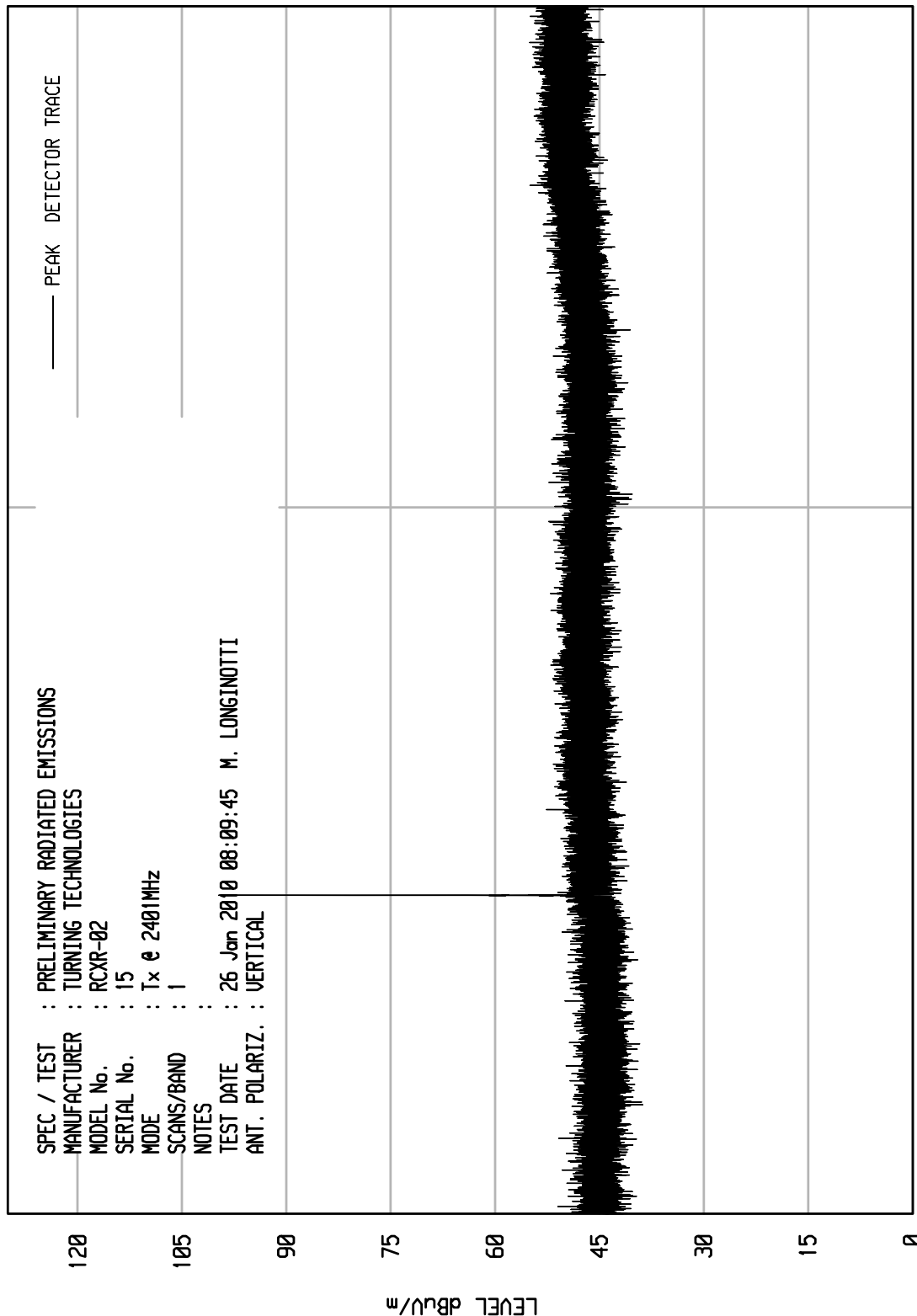
ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 2

WKA1 01/30/09

SPEC / TEST : PRELIMINARY RADIATED EMISSIONS  
MANUFACTURER : TURNING TECHNOLOGIES  
MODEL No. : RCXR-02  
SERIAL No. : 15  
MODE : Tx @ 2401MHz  
SCANS/BAND : 1  
NOTES :  
TEST DATE : 26 Jan 2010 08:09:45 M. LONGINOTTI  
ANT. POLARIZ. : VERTICAL

— PEAK DETECTOR TRACE

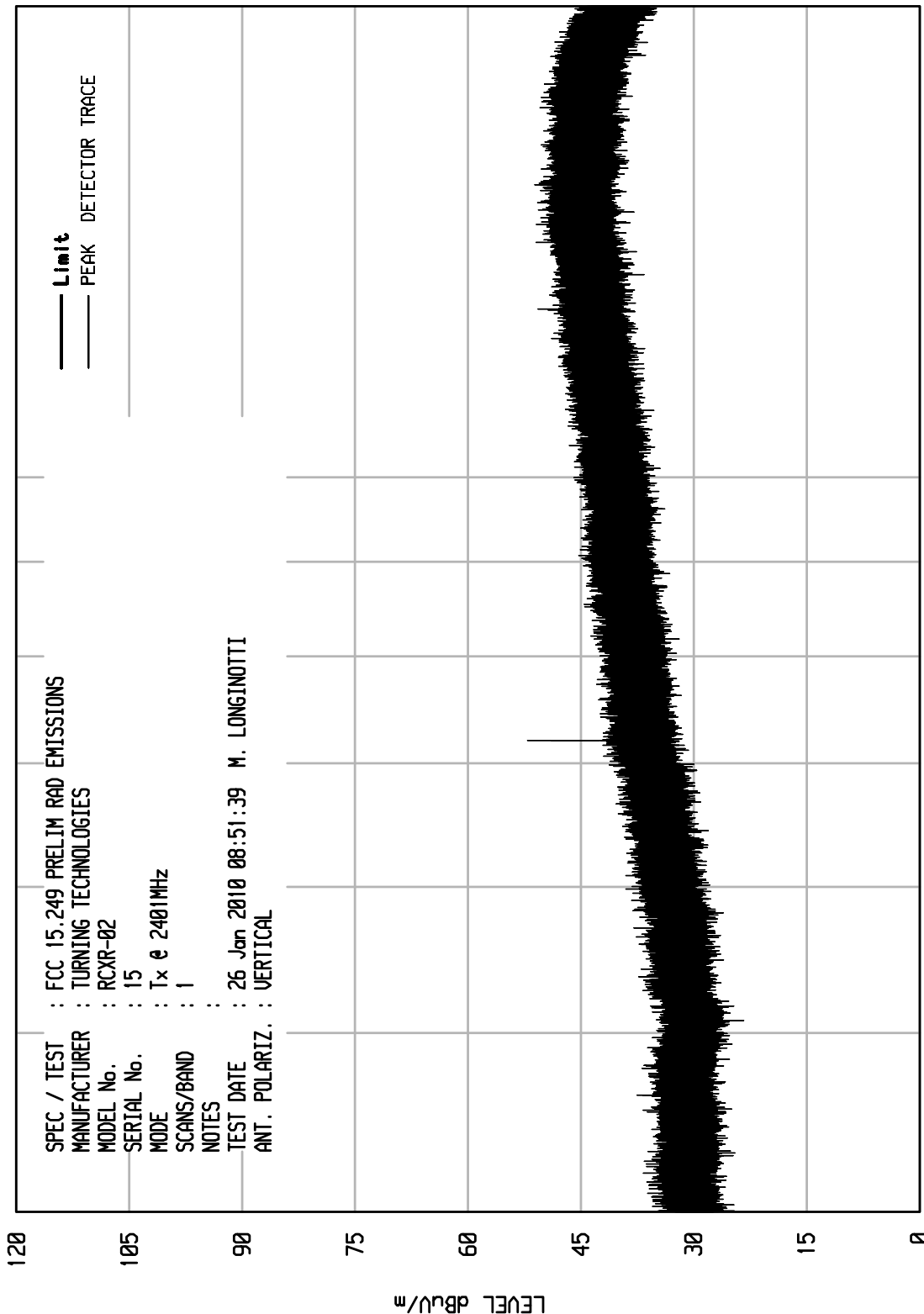


# ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNIU RCU EMI RUN 13

WKA1 01/30/09





ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 7

WKA1 01/30/09

SPEC / TEST : PRELIMINARY RADIATED EMISSIONS  
MANUFACTURER : TURNING TECHNOLOGIES  
MODEL No. : RCXR-02  
SERIAL No. : 15  
MODE : Tx @ 2401MHz  
SCANS/BAND : 1  
NOTES :  
TEST DATE : 27 Jan 2010 10:09:09 M. LONGINOTTI  
ANT. POLARIZ. : VERTICAL

— PEAK DETECTOR TRACE

120

105

90

LEVEL dBuV/m

75

60

45

30

15

0

START = 18000

FREQUENCY MHz

STOP = 25000



Manufacturer : Turning Technologies  
Model No. : Transceiver RCXR-02  
Serial No. : 15  
Mode : Transmit at 2401MHz, small data packets  
Test Specification : FCC 15.249 and Industry Canada RSS-210 Annex 2, section A2.9  
Date : January 25, 2010 through January 27, 2010  
Test Distance : 3 meters  
Note : Peak readings

| Freq (MHz) | Ant Pol | Meter Reading (dBuV) | Amb | CBL FAC (dB) | Ant Fac (dB) | Pre Amp (dB) | Total dBuV/m at 3 m | Total uV/m at 3m | Limit uV/m at 3m | Margin (dB) |
|------------|---------|----------------------|-----|--------------|--------------|--------------|---------------------|------------------|------------------|-------------|
| 2401.00    | H       | 68.4                 |     | 3.8          | 31.5         | 0.0          | 103.7               | 152870.9         | 500000.0         | -10.3       |
| 2401.00    | V       | 60.3                 |     | 3.8          | 31.5         | 0.0          | 95.6                | 60162.3          | 500000.0         | -18.4       |
| 4802.00    | H       | 45.6                 | Amb | 5.7          | 34.8         | -35.9        | 50.2                | 323.7            | 5000.0           | -23.8       |
| 4802.00    | V       | 46.5                 | Amb | 5.7          | 34.8         | -35.9        | 51.1                | 359.0            | 5000.0           | -22.9       |
| 7203.00    | H       | 59.1                 |     | 7.6          | 38.0         | -35.5        | 69.3                | 2916.4           | 5000.0           | -4.7        |
| 7203.00    | V       | 54.0                 |     | 7.6          | 38.0         | -35.5        | 64.2                | 1621.3           | 5000.0           | -9.8        |
| 9604.00    | H       | 46.8                 | Amb | 8.6          | 39.7         | -35.0        | 60.1                | 1013.1           | 5000.0           | -13.9       |
| 9604.00    | V       | 44.7                 | Amb | 8.6          | 39.7         | -35.0        | 58.0                | 795.5            | 5000.0           | -16.0       |
| 12005.00   | H       | 43.6                 | Amb | 9.8          | 41.2         | -34.4        | 60.3                | 1030.5           | 5000.0           | -13.7       |
| 12005.00   | V       | 44.1                 | Amb | 9.8          | 41.2         | -34.4        | 60.8                | 1091.6           | 5000.0           | -13.2       |
| 14406.00   | H       | 43.2                 | Amb | 10.9         | 42.3         | -34.0        | 62.5                | 1327.2           | 5000.0           | -11.5       |
| 14406.00   | V       | 42.8                 | Amb | 10.9         | 42.3         | -34.0        | 62.1                | 1267.4           | 5000.0           | -11.9       |
| 16807.00   | H       | 41.8                 | Amb | 11.6         | 41.2         | -33.9        | 60.7                | 1087.8           | 5000.0           | -13.2       |
| 16807.00   | V       | 42.4                 | Amb | 11.6         | 41.2         | -33.9        | 61.3                | 1165.6           | 5000.0           | -12.6       |
| 19208.00   | H       | 35.7                 | Amb | 2.2          | 40.4         | -27.5        | 50.8                | 347.0            | 5000.0           | -23.2       |
| 19208.00   | V       | 35.2                 | Amb | 2.2          | 40.4         | -27.5        | 50.3                | 327.5            | 5000.0           | -23.7       |
| 21609.00   | H       | 36.0                 | Amb | 2.2          | 40.6         | -26.1        | 52.7                | 430.7            | 5000.0           | -21.3       |
| 21609.00   | V       | 37.1                 | Amb | 2.2          | 40.6         | -26.1        | 53.8                | 488.9            | 5000.0           | -20.2       |
| 24010.00   | H       | 36.8                 | Amb | 2.2          | 40.6         | -27.4        | 52.3                | 410.1            | 5000.0           | -21.7       |
| 24010.00   | V       | 36.8                 | Amb | 2.2          | 40.6         | -27.4        | 52.3                | 410.1            | 5000.0           | -21.7       |

Amb = Ambient

Total (dBuV/m) = Meter Reading + CBL FAC + Ant Fac + Pre Amp

Checked By: MARK E. LONGINOTTI  
Mark E. Longinotti



Manufacturer : Turning Technologies  
Model No. : Transceiver RCXR-02  
Serial No. : 15  
Mode : Transmit at 2401MHz, small data packets  
Test Specification : FCC 15.249 and Industry Canada RSS-210 Annex 2, section A2.9  
Date : January 25, 2010 through January 27, 2010  
Test Distance : 3 meters  
Note : Average readings

| Freq (MHz) | Ant Pol | Meter Reading (dBUV) | Amb | CBL FAC (dB) | Ant Fac (dB) | Pre Amp (dB) | Duty Cycle (dB) | Total dBUV/m at 3 m | Total uV/m at 3m | Limit uV/m at 3m | Margin (dB) |
|------------|---------|----------------------|-----|--------------|--------------|--------------|-----------------|---------------------|------------------|------------------|-------------|
| 2401.0     | H       | 68.4                 |     | 3.8          | 31.5         | 0.0          | -34.8           | 68.9                | 2781.8           | 50000.0          | -25.1       |
| 2401.0     | V       | 60.3                 |     | 3.8          | 31.5         | 0.0          | -34.8           | 60.8                | 1094.8           | 50000.0          | -33.2       |
| 4802.0     | H       | 45.6                 | Amb | 5.7          | 34.8         | -35.9        | -34.8           | 15.4                | 5.9              | 500.0            | -38.6       |
| 4802.0     | V       | 46.5                 | Amb | 5.7          | 34.8         | -35.9        | -34.8           | 16.3                | 6.5              | 500.0            | -37.7       |
| 7203.0     | H       | 59.1                 |     | 7.6          | 38.0         | -35.5        | -34.8           | 34.5                | 53.1             | 500.0            | -19.5       |
| 7203.0     | V       | 54.0                 |     | 7.6          | 38.0         | -35.5        | -34.8           | 29.4                | 29.5             | 500.0            | -24.6       |
| 9604.0     | H       | 46.8                 | Amb | 8.6          | 39.7         | -35.0        | -34.8           | 25.3                | 18.4             | 500.0            | -28.7       |
| 9604.0     | V       | 44.7                 | Amb | 8.6          | 39.7         | -35.0        | -34.8           | 23.2                | 14.5             | 500.0            | -30.8       |
| 12005.0    | H       | 43.6                 | Amb | 9.8          | 41.2         | -34.4        | -34.8           | 25.5                | 18.8             | 500.0            | -28.5       |
| 12005.0    | V       | 44.1                 | Amb | 9.8          | 41.2         | -34.4        | -34.8           | 26.0                | 19.9             | 500.0            | -28.0       |
| 14406.0    | H       | 43.2                 | Amb | 10.9         | 42.3         | -34.0        | -34.8           | 27.7                | 24.2             | 500.0            | -26.3       |
| 14406.0    | V       | 42.8                 | Amb | 10.9         | 42.3         | -34.0        | -34.8           | 27.3                | 23.1             | 500.0            | -26.7       |
| 16807.0    | H       | 41.8                 | Amb | 11.6         | 41.2         | -33.9        | -34.8           | 25.9                | 19.8             | 500.0            | -28.0       |
| 16807.0    | V       | 42.4                 | Amb | 11.6         | 41.2         | -33.9        | -34.8           | 26.5                | 21.2             | 500.0            | -27.4       |
| 19208.0    | H       | 35.7                 | Amb | 2.2          | 40.4         | -27.5        | -34.8           | 16.0                | 6.3              | 500.0            | -38.0       |
| 19208.0    | V       | 35.2                 | Amb | 2.2          | 40.4         | -27.5        | -34.8           | 15.5                | 6.0              | 500.0            | -38.5       |
| 21609.0    | H       | 36.0                 | Amb | 2.2          | 40.6         | -26.1        | -34.8           | 17.9                | 7.8              | 500.0            | -36.1       |
| 21609.0    | V       | 37.1                 | Amb | 2.2          | 40.6         | -26.1        | -34.8           | 19.0                | 8.9              | 500.0            | -35.0       |
| 24010.0    | H       | 36.8                 | Amb | 2.2          | 40.6         | -27.4        | -34.8           | 17.5                | 7.5              | 500.0            | -36.5       |
| 24010.0    | V       | 36.8                 | Amb | 2.2          | 40.6         | -27.4        | -34.8           | 17.5                | 7.5              | 500.0            | -36.5       |

Amb = Ambient

Total (dBUV/m) = Meter Reading + CBL FAC + Ant Fac + Pre Amp + Duty Cycle

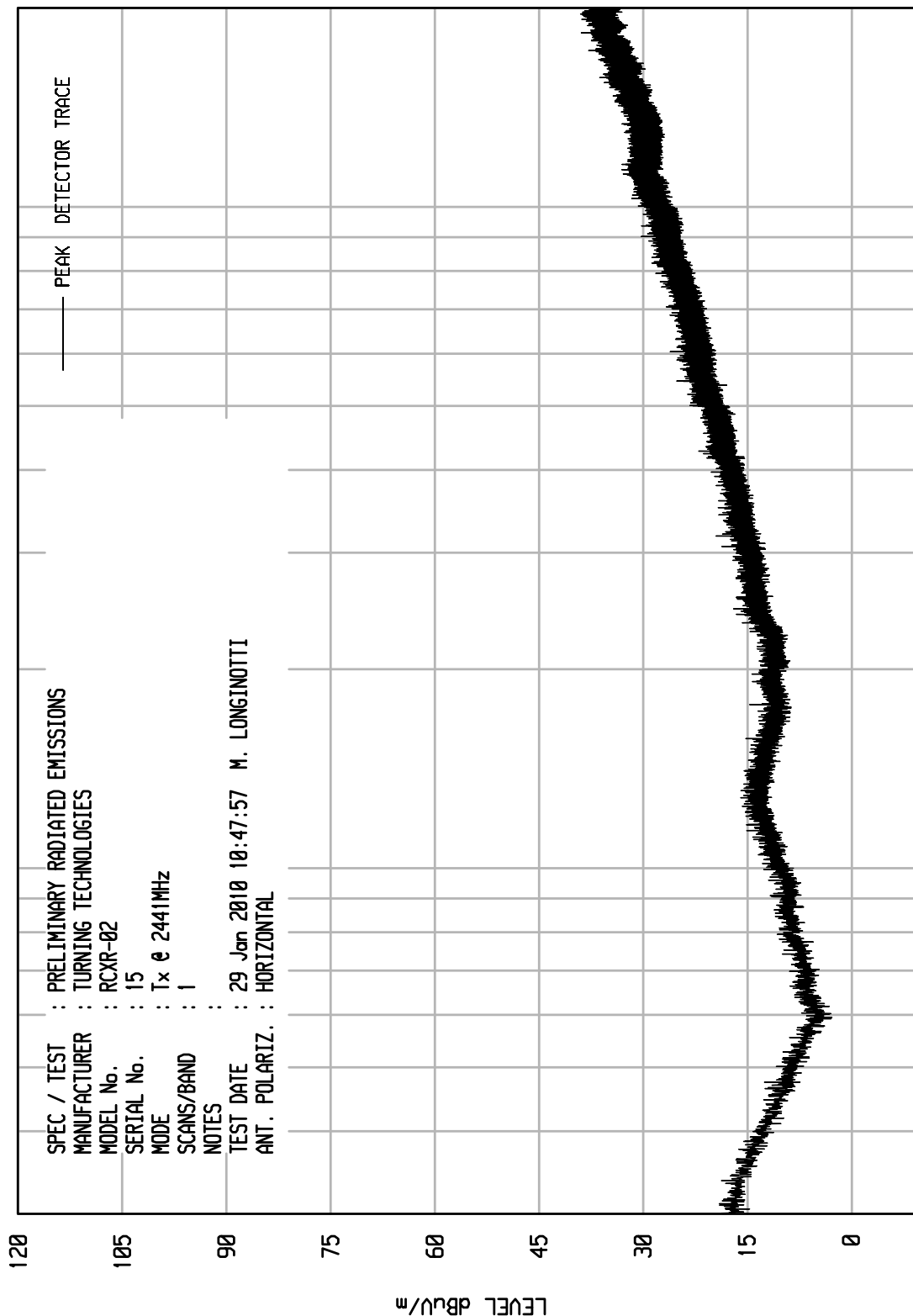
Checked By: MARK E. LONGINOTTI  
Mark E. Longinotti



ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 10

UKAI 01/30/09



START = 30

STOP = 2000

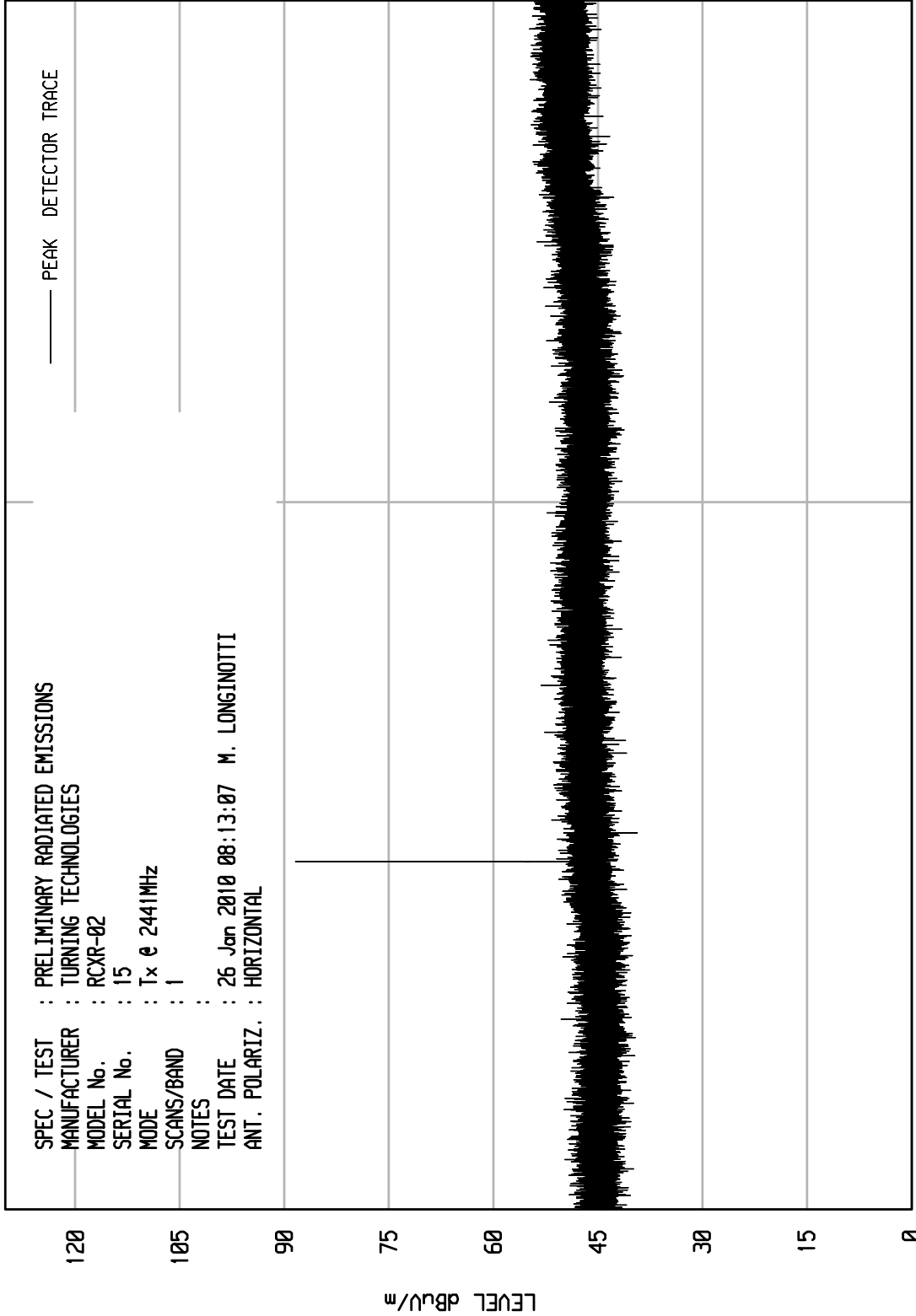
ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 4

WKA1 01/30/09

SPEC / TEST : PRELIMINARY RADIATED EMISSIONS  
MANUFACTURER : TURNING TECHNOLOGIES  
MODEL No. : RCXR-02  
SERIAL No. : 15  
MODE : Tx @ 2441MHz  
SCANS/BAND : 1  
NOTES :  
TEST DATE : 26 Jan 2010 08:13:07 M. LONGINOTTI  
ANT. POLARIZ. : HORIZONTAL

— PEAK DETECTOR TRACE



START = 2000

FREQUENCY MHz

STOP = 4000

