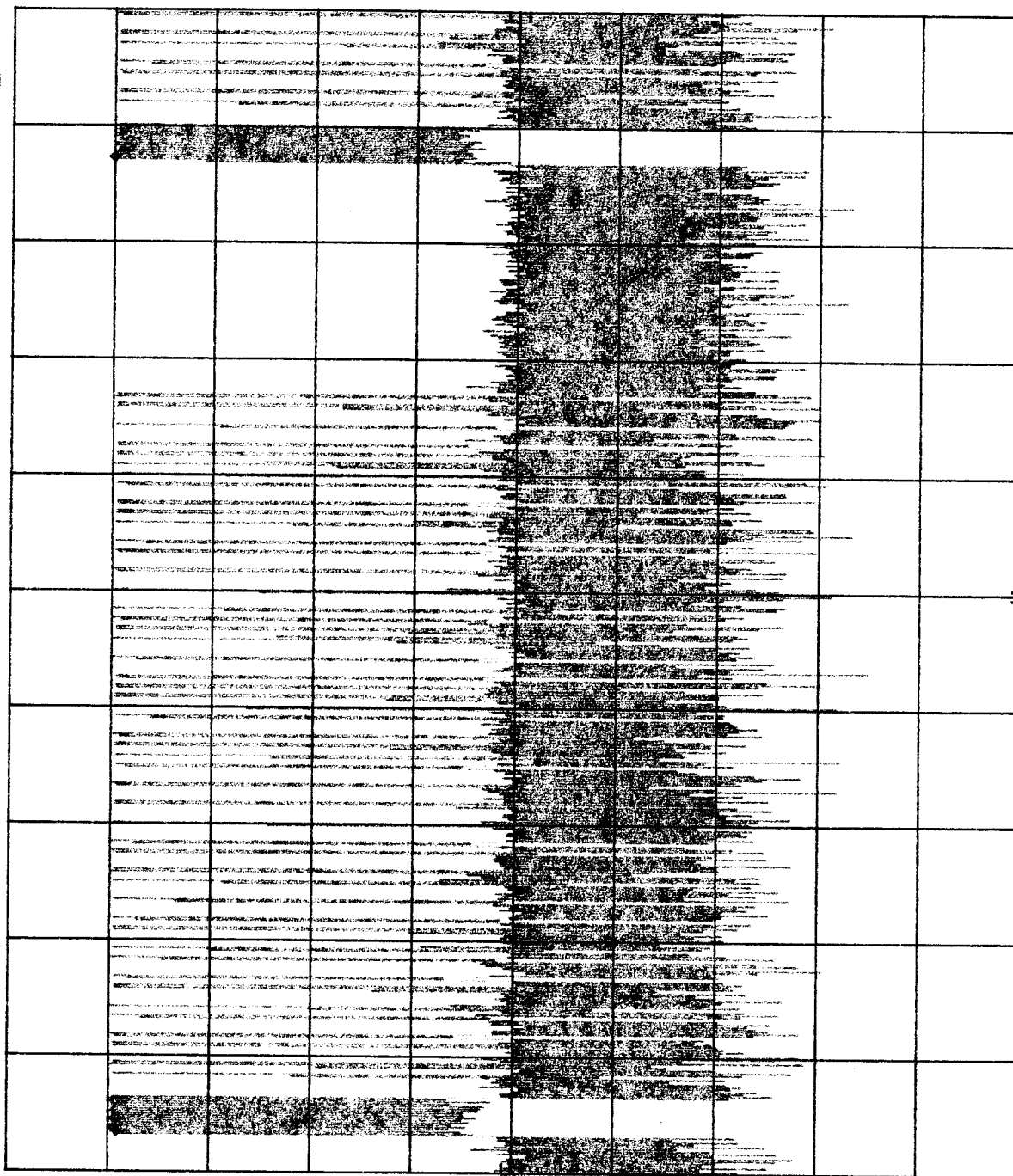


R-9963-1 X-10 SFR1 FCC15.35 Duty Cycle ND MKR  $\Delta$  83.80 msec  
 REF 75.0 dB $\mu$ V ATTEN 10 dB

hp

10 dB/



SPAN 0 Hz  
 SWP 100 msec

VBW 300 kHz

CENTER 418.000 000 MHz  
 RES BW 100 kHz

|              |                                                                                                            |         |                       |
|--------------|------------------------------------------------------------------------------------------------------------|---------|-----------------------|
| Customer:    | X-10 Wireless Technology, Inc.                                                                             |         |                       |
| Test Sample: | 418 MHz Pulsed RF Transmitter                                                                              |         |                       |
| Model No.:   | SFR1                                                                                                       | FCC ID: | B4SSFR1               |
| Test Method: | FCC 15.231 Duty Cycle Determination                                                                        |         |                       |
| Notes:       | Transmitter Cycle Time: 28 milliseconds <i>83ms</i><br>Duty Cycle = $(3.1 + (49 \cdot 160)) / 83 = 13.2\%$ |         |                       |
| Date:        | July 3, 2003                                                                                               | Tech:   | N. Dragotta <i>ND</i> |
| Sheet        | 1                                                                                                          | of      | 3                     |



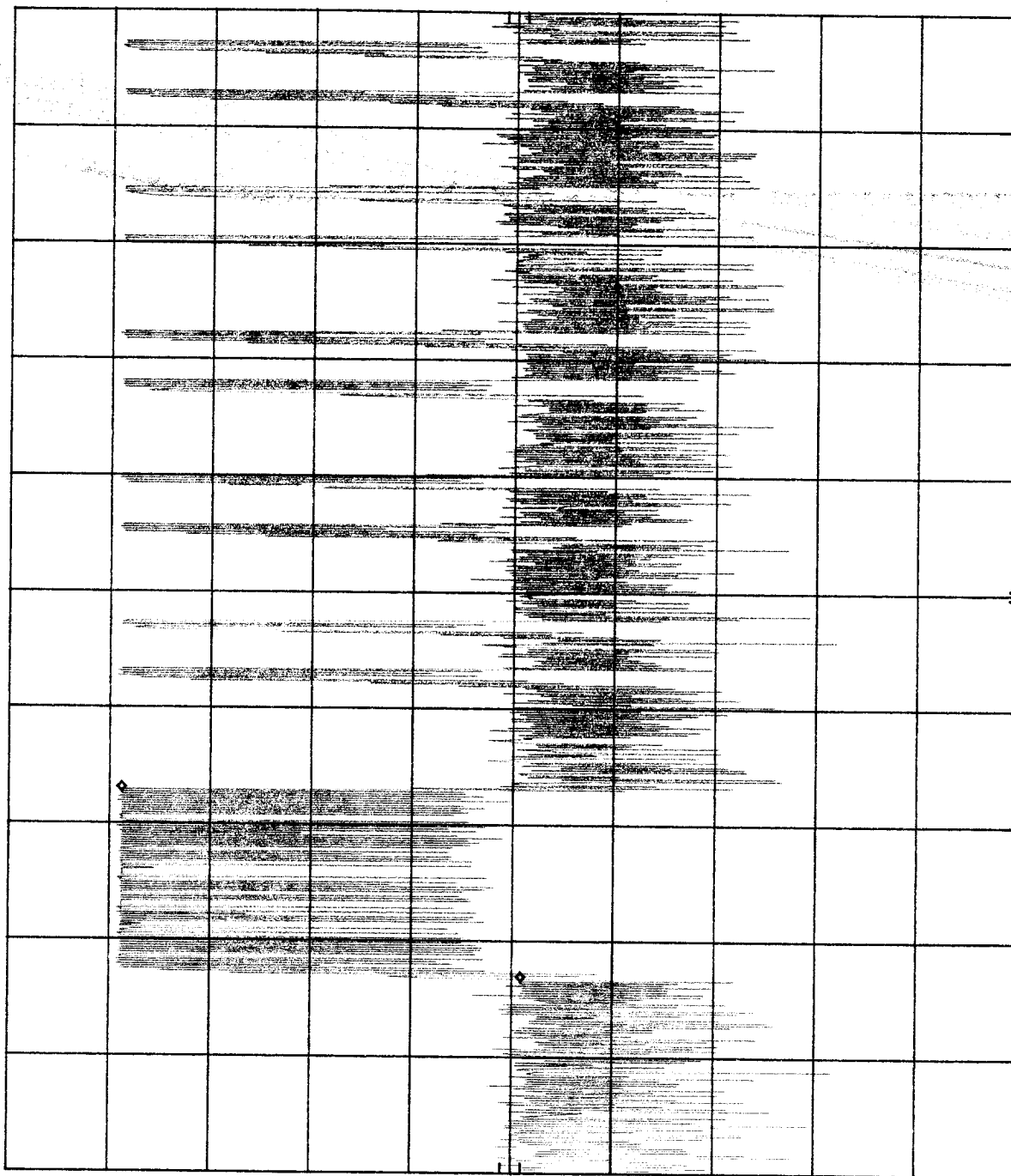
Retlif Testing Laboratories

Report No. R-9963-1

R-9963-1 X-10 SFR1 FCC15.35 Duty Cycle ND MKR  $\Delta$  3.240 msec  
 REF 75.0 dB $\mu$ V ATTEN 10 dB

hp

10 dB/



CENTER 418.000 000 MHz  
 RES BW 100 kHz  
 VBW 300 kHz  
 SPAN 0 Hz  
 SWP 20.0 msec

|              |                                                      |           |             |
|--------------|------------------------------------------------------|-----------|-------------|
| Customer:    | X-10 Wireless Technology, Inc.                       |           |             |
| Test Sample: | 418 MHz Pulsed RF Transmitter                        |           |             |
| Model No.:   | SFR1                                                 | FCC ID:   | B4SSFR1     |
| Test Method: | FCC 15.231 Duty Cycle Determination                  |           |             |
| Notes:       | Large Pulse Duration: 3.1 milliseconds               | Quantity: | 1           |
|              | Duty Cycle = $(3.1 + (49 \times 160)) / 83 = 13.2\%$ |           |             |
| Date:        | July 3, 2003                                         | Tech:     | N. Dragotta |
|              | Sheet                                                | 2         | of 3        |



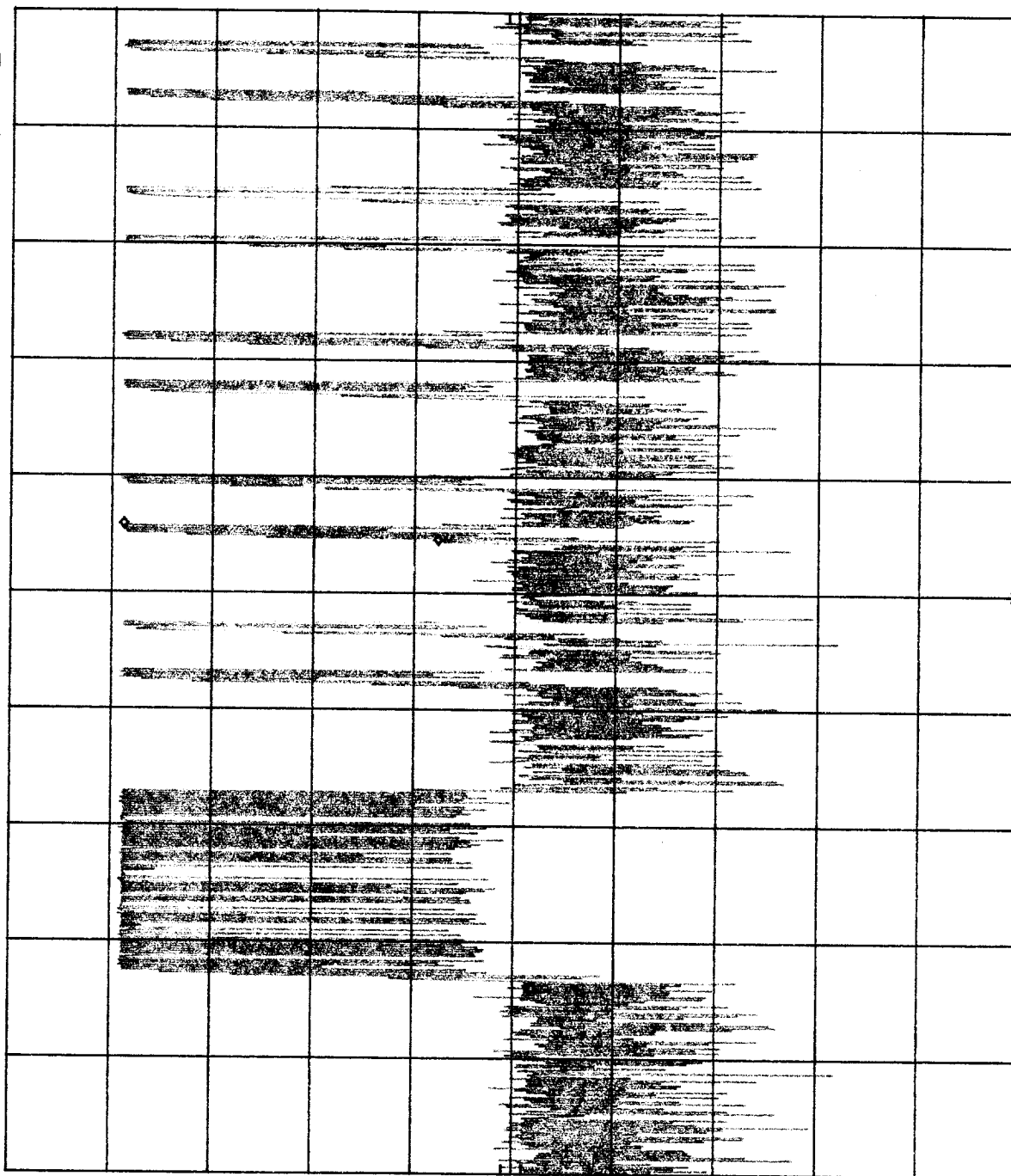
**Retlif Testing Laboratories**

Report No. R-9963-1

R-9963-1 X-10 SFR1 FCC15.35 Duty Cycle ND MKR  $\Delta$  260.0  $\mu$ sec  
 REF 75.0 dB $\mu$ V ATTEN 10 dB 31.20 dB

hp

10 dB/



CENTER 418.000 000 MHz  
 RES BW 100 kHz  
 VBW 300 kHz  
 SWP 20.0 msec  
 SPAN 0 Hz

|              |                                                        |           |             |
|--------------|--------------------------------------------------------|-----------|-------------|
| Customer:    | X-10 Wireless Technology, Inc.                         |           |             |
| Test Sample: | 418 MHz Pulsed RF Transmitter                          |           |             |
| Model No.:   | SFR1                                                   | FCC ID:   | B4SSFR1     |
| Test Method: | FCC 15.231 Duty Cycle Determination                    |           |             |
| Notes:       | Small Pulse Duration: 0.160 milliseconds               | Quantity: | 49          |
|              | Duty Cycle = $(3.1 + (49 \times 0.160)) / 83 = 13.2\%$ |           |             |
| Date:        | July 3, 2003                                           | Tech:     | N. Dragotta |
|              |                                                        | Sheet     | 3 of 3      |



**Retlif Testing Laboratories**

Report No. R-9963-1

|                 |                                                                                                                                                                                                |                 |               |                   |                   |                   |            |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|-------------------|-------------------|-------------------|------------|
| Test Method:    | FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions                                                                                                                     |                 |               |                   |                   |                   |            |
| Customer:       | X-10 Wireless Technology, Inc.                                                                                                                                                                 |                 |               | Job No.           | R-9963-1          |                   |            |
| Test Sample:    | Pulsed RF Transmitter                                                                                                                                                                          |                 |               | Paragraph:        | 15.231 (a)        |                   |            |
| Model No.:      | SFR1                                                                                                                                                                                           |                 |               | FCC ID:           | B4SSFR1           |                   |            |
| Operating Mode: | Continuously Transmitting a pulsed 418 MHz Signal                                                                                                                                              |                 |               |                   |                   |                   |            |
| Technician:     | T. Schneider                                                                                                                                                                                   |                 |               | Date:             | July 2, 2003      |                   |            |
| Notes:          | Test Distance: 3 Meters                                                                                                                                                                        |                 |               | Temp: 31°C        |                   | Humidity: 45%     |            |
|                 | Detector: Peak, Unless otherwise specified                                                                                                                                                     |                 |               |                   |                   |                   |            |
| Test Freq.      | Antenna Pol./Height                                                                                                                                                                            | EUT Orientation | Meter Reading | Correction Factor | Corrected Reading | Converted Reading | Peak Limit |
| MHz             | (V/H)/Meters                                                                                                                                                                                   | X / Y / Z       | dBuV          | dB                | dBuV/m            | uV/m              | uV/m       |
|                 |                                                                                                                                                                                                |                 |               |                   |                   |                   |            |
|                 | H / 2.1                                                                                                                                                                                        | Y               | 71.0          | -0.9              | 70.1              | 3198.9            |            |
|                 | H / 2.1                                                                                                                                                                                        | Z               | 58.5          | -0.9              | 57.6              | 758.6             |            |
|                 | V / 1.0                                                                                                                                                                                        | X               | 64.8          | -0.9              | 63.9              | 1566.8            |            |
|                 | V / 1.0                                                                                                                                                                                        | Y               | 64.9          | -0.9              | 64.0              | 1584.9            |            |
| 418             | V / 1.0                                                                                                                                                                                        | Z               | 75.8          | -0.9              | 74.9              | 5559.0            | 103,300    |
|                 |                                                                                                                                                                                                |                 |               |                   |                   |                   |            |
| 836             | H / 1.0                                                                                                                                                                                        | X               | 39.9          | +7.4              | 47.3              | 231.7             | 10,330     |
|                 | H / 1.0                                                                                                                                                                                        | Y               | 42.4          | +7.4              | 49.8              | 309.0             |            |
|                 | H / 2.1                                                                                                                                                                                        | Z               | 43.0          | +7.4              | 50.4              | 331.1             |            |
|                 | V / 1.3                                                                                                                                                                                        | X               | 47.1          | +7.4              | 54.5              | 530.9             |            |
|                 | V / 1.3                                                                                                                                                                                        | Y               | 41.3          | +7.4              | 48.7              | 272.3             |            |
| 836             | V / 1.0                                                                                                                                                                                        | Z               | 44.4          | +7.4              | 51.8              | 389.0             | 10,330     |
|                 |                                                                                                                                                                                                |                 |               |                   |                   |                   |            |
| 1254            | H / 1.2                                                                                                                                                                                        | X               | 49.0          | -1.1              | 47.9              | 248.3             | 10,330     |
|                 | H / 1.3                                                                                                                                                                                        | Y               | 46.8          | -1.1              | 45.7              | 192.8             |            |
|                 | H / 1.4                                                                                                                                                                                        | Z               | 49.0          | -1.1              | 47.9              | 248.3             |            |
|                 | V / 1.0                                                                                                                                                                                        | X               | 49.6          | -1.1              | 48.5              | 266.1             |            |
|                 | V / 1.0                                                                                                                                                                                        | Y               | 46.8          | -1.1              | 45.7              | 192.8             |            |
| 1254            | V / 1.2                                                                                                                                                                                        | Z               | 47.0          | -1.1              | 45.9              | 197.2             | 10,330     |
|                 |                                                                                                                                                                                                |                 |               |                   |                   |                   |            |
| 1672            | H / 1.2                                                                                                                                                                                        | X               | 48.8          | +3.2              | 52.0              | 398.1             | 5,000      |
|                 | H / 1.5                                                                                                                                                                                        | Y               | 44.9          | +3.2              | 48.1              | 254.1             |            |
|                 | H / 1.4                                                                                                                                                                                        | Z               | 50.1          | +3.2              | 53.3              | 462.4             |            |
|                 | V / 1.0                                                                                                                                                                                        | X               | 46.0          | +3.2              | 49.2              | 288.4             |            |
|                 | V / 1.0                                                                                                                                                                                        | Y               | 46.0          | +3.2              | 49.2              | 288.4             |            |
| 1672            | V / 1.0                                                                                                                                                                                        | Z               | 45.5          | +3.2              | 48.7              | 272.3             | 5,000      |
|                 |                                                                                                                                                                                                |                 |               |                   |                   |                   |            |
| 2090            | H / 1.2                                                                                                                                                                                        | X               | 45.4          | +11.0             | 56.4              | 660.7             | 10,330     |
|                 | H / 1.0                                                                                                                                                                                        | Y               | 43.8          | +11.0             | 54.8              | 549.5             |            |
|                 | H / 1.0                                                                                                                                                                                        | Z               | 50.3          | +11.0             | 61.3              | 1161.4            |            |
|                 | V / 1.0                                                                                                                                                                                        | X               | 45.9          | +11.0             | 56.9              | 699.8             |            |
|                 | V / 1.0                                                                                                                                                                                        | Y               | 44.9          | +11.0             | 55.9              | 623.7             |            |
| 2090            | V / 1.0                                                                                                                                                                                        | Z               | 44.3          | +11.0             | 55.3              | 582.1             | 10,330     |
|                 | The frequency range was scanned from 30 MHz to 4.18 GHz. All emissions not recorded were more than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits. |                 |               |                   |                   |                   |            |
|                 | *=Noise Floor Measurements (Minimum system sensitivity)                                                                                                                                        |                 |               |                   |                   |                   |            |



**Retlif Testing Laboratories**

Retlif Job Number R-9963-1

|                 |                                                                                                  |                 |               |                   |                   |                   |            |
|-----------------|--------------------------------------------------------------------------------------------------|-----------------|---------------|-------------------|-------------------|-------------------|------------|
| Test Method:    | FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions                       |                 |               |                   |                   |                   |            |
| Customer:       | X-10 Wireless Technology, Inc.                                                                   |                 |               |                   | Job No.           | R-9963-1          |            |
| Test Sample:    | Pulsed RF Transmitter                                                                            |                 |               |                   | Paragraph:        | 15.231 (a)        |            |
| Model No.:      | SFR1                                                                                             |                 |               |                   | FCC ID:           | B4SSFR1           |            |
| Operating Mode: | Continuously Transmitting a pulsed 418 MHz Signal                                                |                 |               |                   |                   |                   |            |
| Technician:     | T. Schneider                                                                                     |                 |               |                   | Date:             | July 2, 2003      |            |
| Notes:          | Test Distance: 3 Meters<br>Detector: Peak, Unless otherwise specified                            |                 |               |                   | Temp: 31°C        | Humidity: 45%     |            |
| Test Freq.      | Antenna Pol./Height                                                                              | EUT Orientation | Meter Reading | Correction Factor | Corrected Reading | Converted Reading | Peak Limit |
| MHz             | (V/H)-Meters                                                                                     | X / Y / Z       | dBuV          | DB                | dBuV/m            | uV/m              | uV/m       |
|                 |                                                                                                  |                 |               |                   |                   |                   |            |
|                 | H / 1.0                                                                                          | Y               | 39.5          | -1.5              | 38.0              | 79.4*             |            |
|                 | H / 1.0                                                                                          | Z               | 39.5          | -1.5              | 38.0              | 79.4*             |            |
|                 | V / 1.0                                                                                          | X               | 39.5          | -1.5              | 38.0              | 79.4*             |            |
|                 | V / 1.0                                                                                          | Y               | 39.5          | -1.5              | 38.0              | 79.4*             |            |
| 2508            | V / 1.0                                                                                          | Z               | 39.5          | -1.5              | 38.0              | 79.4*             | 10,330     |
|                 |                                                                                                  |                 |               |                   |                   |                   |            |
| 2926            | H / 1.0                                                                                          | X               | 40.7          | +0.3              | 41.0              | 112.2*            | 10,330     |
|                 | H / 1.5                                                                                          | Y               | 40.7          | +0.3              | 41.0              | 112.2*            |            |
|                 | H / 1.0                                                                                          | Z               | 40.7          | +0.3              | 41.0              | 112.2*            |            |
|                 | V / 1.0                                                                                          | X               | 40.7          | +0.3              | 41.0              | 112.2*            |            |
|                 | V / 1.5                                                                                          | Y               | 40.7          | +0.3              | 41.0              | 112.2*            |            |
| 2926            | V / 1.0                                                                                          | Z               | 40.7          | +0.3              | 41.0              | 112.2*            | 10,330     |
|                 |                                                                                                  |                 |               |                   |                   |                   |            |
| 3344            | H / 3.0                                                                                          | X               | 40.4          | +0.7              | 41.1              | 113.5*            | 10,330     |
|                 | H / 2.0                                                                                          | Y               | 40.4          | +0.7              | 41.1              | 113.5*            |            |
|                 | H / 1.0                                                                                          | Z               | 40.4          | +0.7              | 41.1              | 113.5*            |            |
|                 | V / 1.0                                                                                          | X               | 40.4          | +0.7              | 41.1              | 113.5*            |            |
|                 | V / 1.0                                                                                          | Y               | 40.4          | +0.7              | 41.1              | 113.5*            |            |
| 3344            | V / 1.5                                                                                          | Z               | 40.4          | +0.7              | 41.1              | 113.5*            | 10,330     |
|                 |                                                                                                  |                 |               |                   |                   |                   |            |
| 3762            | H / 2.0                                                                                          | X               | 39.2          | +1.7              | 40.9              | 110.9*            | 5,000      |
|                 | H / 2.0                                                                                          | Y               | 39.2          | +1.7              | 40.9              | 110.9*            |            |
|                 | H / 1.0                                                                                          | Z               | 39.2          | +1.7              | 40.9              | 110.9*            |            |
|                 | V / 1.5                                                                                          | X               | 39.2          | +1.7              | 40.9              | 110.9*            |            |
|                 | V / 1.0                                                                                          | Y               | 39.2          | +1.7              | 40.9              | 110.9*            |            |
| 3762            | V / 1.0                                                                                          | Z               | 39.2          | +1.7              | 40.9              | 110.9*            | 5,000      |
|                 |                                                                                                  |                 |               |                   |                   |                   |            |
| 4180            | H / 1.0                                                                                          | X               | 38.2          | +2.7              | 40.9              | 110.9*            | 5,000      |
|                 | H / 1.0                                                                                          | Y               | 38.2          | +2.7              | 40.9              | 110.9*            |            |
|                 | H / 1.5                                                                                          | Z               | 38.2          | +2.7              | 40.9              | 110.9*            |            |
|                 | V / 1.0                                                                                          | X               | 38.2          | +2.7              | 40.9              | 110.9*            |            |
|                 | V / 1.0                                                                                          | Y               | 38.2          | +2.7              | 40.9              | 110.9*            |            |
| 4180            | V / 1.0                                                                                          | Z               | 38.2          | +2.7              | 40.9              | 110.9*            | 5,000      |
|                 | The frequency range was scanned from 30 MHz to 4.18 GHz. All emissions not recorded were more    |                 |               |                   |                   |                   |            |
|                 | Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits. |                 |               |                   |                   |                   |            |
|                 | *=Noise Floor Measurements (Minimum system sensitivity)                                          |                 |               |                   |                   |                   |            |



**Retlif Testing Laboratories**

Retlif Job Number R-9963-1

|                        |  |                                                                                                  |                 |              |                                 |                   |                   |            |
|------------------------|--|--------------------------------------------------------------------------------------------------|-----------------|--------------|---------------------------------|-------------------|-------------------|------------|
| <b>Test Method:</b>    |  | FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions                       |                 |              |                                 |                   |                   |            |
| <b>Customer:</b>       |  | X-10 Wireless Technology, Inc.                                                                   |                 |              | <b>Job No.</b>                  |                   | R-9963-1          |            |
| <b>Test Sample:</b>    |  | Pulsed RF Transmitter                                                                            |                 |              | <b>Paragraph:</b>               |                   | 15.231 (a)        |            |
| <b>Model No.:</b>      |  | SFR1                                                                                             |                 |              | <b>FCC ID:</b>                  |                   | B4SSFR1           |            |
| <b>Operating Mode:</b> |  | Continuously Transmitting a pulsed 418 MHz Signal                                                |                 |              |                                 |                   |                   |            |
| <b>Technician:</b>     |  | T. Schneider                                                                                     |                 |              | <b>Date:</b>                    |                   | July 2, 2003      |            |
| <b>Notes:</b>          |  | Test Distance: 3 Meters                                                                          |                 |              | Duty Cycle: 13.2 %              |                   |                   |            |
|                        |  | Detector: Peak, unless otherwise specified                                                       |                 |              | Duty Cycle Correction: -17.6 dB |                   |                   |            |
| Test Freq.             |  | Antenna Pol./Height                                                                              | EUT Orientation | Peak Reading | Correction Factor               | Corrected Reading | Converted Reading | Avg. Limit |
| MHz                    |  | (V/H)-Meters                                                                                     | X / Y / Z       | DBuV         | dB                              | dBuV/m            | uV/m              | uV/m       |
|                        |  |                                                                                                  |                 |              |                                 |                   |                   |            |
|                        |  | H / 1.5                                                                                          | Y               | 70.1         | -17.6                           | 52.5              | 421.7             |            |
|                        |  | H / 1.5                                                                                          | Z               | 57.6         | -17.6                           | 40.0              | 100.0             |            |
|                        |  | V / 1.0                                                                                          | X               | 63.9         | -17.6                           | 46.3              | 206.5             |            |
|                        |  | V / 1.0                                                                                          | Y               | 64.0         | -17.6                           | 46.4              | 208.9             |            |
| 418                    |  | V / 1.0                                                                                          | Z               | 74.9         | -17.6                           | 57.3              | 732.8             | 10,330     |
|                        |  |                                                                                                  |                 |              |                                 |                   |                   |            |
| 836                    |  | H / 1.0                                                                                          | X               | 47.3         | -17.6                           | 29.7              | 30.5              | 1,033      |
|                        |  | H / 1.0                                                                                          | Y               | 49.8         | -17.6                           | 32.2              | 40.7              |            |
|                        |  | H / 2.0                                                                                          | Z               | 50.4         | -17.6                           | 32.8              | 43.7              |            |
|                        |  | V / 1.0                                                                                          | X               | 54.5         | -17.6                           | 36.9              | 70.0              |            |
|                        |  | V / 1.0                                                                                          | Y               | 48.7         | -17.6                           | 31.1              | 35.9              |            |
| 836                    |  | V / 1.0                                                                                          | Z               | 51.8         | -17.6                           | 34.2              | 51.3              | 1,033      |
|                        |  |                                                                                                  |                 |              |                                 |                   |                   |            |
| 1254                   |  | H / 1.0                                                                                          | X               | 47.9         | -17.6                           | 30.3              | 32.7              | 1,033      |
|                        |  | H / 2.0                                                                                          | Y               | 45.7         | -17.6                           | 28.1              | 25.4              |            |
|                        |  | H / 1.5                                                                                          | Z               | 47.9         | -17.6                           | 30.3              | 32.7              |            |
|                        |  | V / 1.0                                                                                          | X               | 48.5         | -17.6                           | 30.9              | 35.1              |            |
|                        |  | V / 1.0                                                                                          | Y               | 45.7         | -17.6                           | 28.1              | 25.4              |            |
| 1254                   |  | V / 1.0                                                                                          | Z               | 45.9         | -17.6                           | 28.3              | 26.0              | 1,033      |
|                        |  |                                                                                                  |                 |              |                                 |                   |                   |            |
| 1672                   |  | H / 1.0                                                                                          | X               | 52.0         | -17.6                           | 34.4              | 52.5              | 500        |
|                        |  | H / 1.5                                                                                          | Y               | 48.1         | -17.6                           | 30.5              | 33.5              |            |
|                        |  | H / 1.5                                                                                          | Z               | 53.3         | -17.6                           | 35.7              | 61.0              |            |
|                        |  | V / 1.0                                                                                          | X               | 49.2         | -17.6                           | 31.6              | 38.0              |            |
|                        |  | V / 1.0                                                                                          | Y               | 49.2         | -17.6                           | 31.6              | 38.0              |            |
| 1672                   |  | V / 1.0                                                                                          | Z               | 48.7         | -17.6                           | 31.1              | 35.9              | 5,0        |
|                        |  |                                                                                                  |                 |              |                                 |                   |                   |            |
| 2090                   |  | H / 1.5                                                                                          | X               | 56.4         | -17.6                           | 38.8              | 87.1              | 1,033      |
|                        |  | H / 1.5                                                                                          | Y               | 54.8         | -17.6                           | 37.2              | 72.4              |            |
|                        |  | H / 1.0                                                                                          | Z               | 61.3         | -17.6                           | 43.7              | 153.1             |            |
|                        |  | V / 1.5                                                                                          | X               | 56.9         | -17.6                           | 39.3              | 92.3              |            |
|                        |  | V / 1.0                                                                                          | Y               | 55.9         | -17.6                           | 38.3              | 82.2              |            |
| 2090                   |  | V / 1.0                                                                                          | Z               | 55.3         | -17.6                           | 37.7              | 76.7              | 1,033      |
|                        |  | The frequency range was scanned from 30 MHz to 4.18 GHz. All emissions not recorded were more    |                 |              |                                 |                   |                   |            |
|                        |  | Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits. |                 |              |                                 |                   |                   |            |
|                        |  | *=Noise Floor Measurements (Minimum system sensitivity)                                          |                 |              |                                 |                   |                   |            |



**Retlif Testing Laboratories**

Retlif Job Number R-9963-1

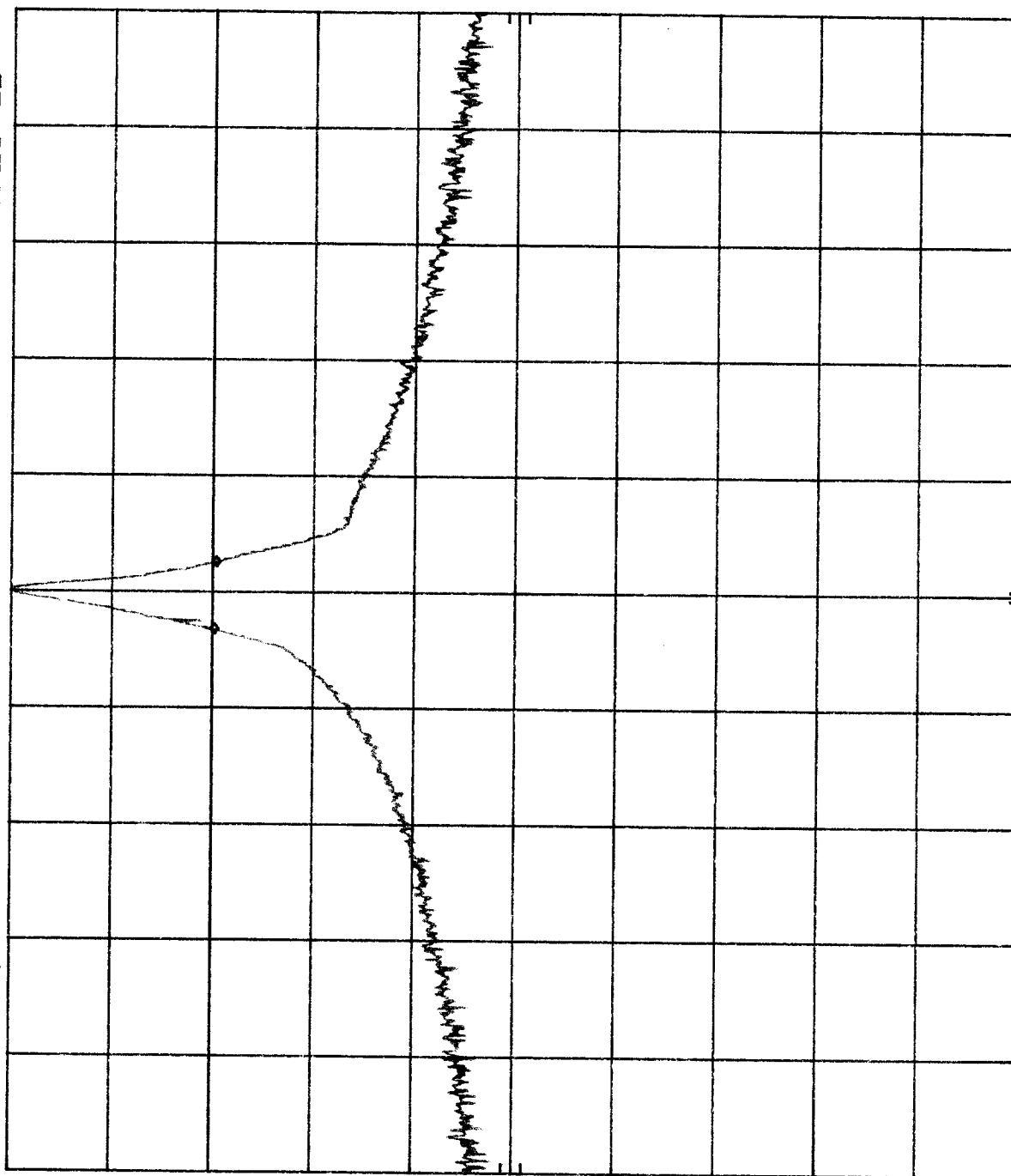
|                 |                                                                                                  |                 |              |                   |                                 |                   |            |
|-----------------|--------------------------------------------------------------------------------------------------|-----------------|--------------|-------------------|---------------------------------|-------------------|------------|
| Test Method:    | FCC Part 15 Subpart C Radiated Emissions, Fundamental & Harmonic Emissions                       |                 |              |                   |                                 |                   |            |
| Customer:       | X-10 Wireless Technology, Inc.                                                                   |                 |              |                   | Job No.                         | R-9963-1          |            |
| Test Sample:    | Pulsed RF Transmitter                                                                            |                 |              |                   | Paragraph:                      | 15.231 (a)        |            |
| Model No.:      | SFR1                                                                                             |                 |              |                   | FCC ID:                         | B4SSFR1           |            |
| Operating Mode: | Continuously Transmitting a pulsed 418 MHz Signal                                                |                 |              |                   |                                 |                   |            |
| Technician:     | T. Schneider                                                                                     |                 |              |                   | Date:                           | July 2, 2003      |            |
| Notes:          | Test Distance: 3 Meters                                                                          |                 |              |                   | Duty Cycle: 13.2 %              |                   |            |
|                 | Detector: Peak, unless otherwise specified                                                       |                 |              |                   | Duty Cycle Correction: -17.6 dB |                   |            |
| Test Freq.      | Antenna Pol./Height                                                                              | EUT Orientation | Peak Reading | Correction Factor | Corrected Reading               | Converted Reading | Avg. Limit |
| MHz             | (V/H)-Meters                                                                                     | X / Y / Z       | dBuV         | dB                | dBuV/m                          | uV/m              | uV/m       |
|                 |                                                                                                  |                 |              |                   |                                 |                   |            |
|                 | H / 1.0                                                                                          | Y               | 38.0         | -17.6             | 20.4                            | 10.5*             |            |
|                 | H / 1.0                                                                                          | Z               | 38.0         | -17.6             | 20.4                            | 10.5*             |            |
|                 | V / 1.0                                                                                          | X               | 38.0         | -17.6             | 20.4                            | 10.5*             |            |
|                 | V / 1.0                                                                                          | Y               | 38.0         | -17.6             | 20.4                            | 10.5*             |            |
| 2508            | V / 1.0                                                                                          | Z               | 38.0         | -17.6             | 20.4                            | 10.5*             | 1,033      |
|                 |                                                                                                  |                 |              |                   |                                 |                   |            |
| 2926            | H / 1.0                                                                                          | X               | 41.0         | -17.6             | 23.4                            | 14.8*             | 1,033      |
|                 | H / 1.5                                                                                          | Y               | 41.0         | -17.6             | 23.4                            | 14.8*             |            |
|                 | H / 1.0                                                                                          | Z               | 41.0         | -17.6             | 23.4                            | 14.8*             |            |
|                 | V / 1.0                                                                                          | X               | 41.0         | -17.6             | 23.4                            | 14.8*             |            |
|                 | V / 1.5                                                                                          | Y               | 41.0         | -17.6             | 23.4                            | 14.8*             |            |
| 2926            | V / 1.0                                                                                          | Z               | 41.0         | -17.6             | 23.4                            | 14.8*             | 1,033      |
|                 |                                                                                                  |                 |              |                   |                                 |                   |            |
| 3344            | H / 3.0                                                                                          | X               | 41.1         | -17.6             | 23.5                            | 15.0*             | 1,033      |
|                 | H / 2.0                                                                                          | Y               | 41.1         | -17.6             | 23.5                            | 15.0*             |            |
|                 | H / 1.0                                                                                          | Z               | 41.1         | -17.6             | 23.5                            | 15.0*             |            |
|                 | V / 1.0                                                                                          | X               | 41.1         | -17.6             | 23.5                            | 15.0*             |            |
|                 | V / 1.0                                                                                          | Y               | 41.1         | -17.6             | 23.5                            | 15.0*             |            |
| 3344            | V / 1.5                                                                                          | Z               | 41.1         | -17.6             | 23.5                            | 15.0*             | 1,033      |
|                 |                                                                                                  |                 |              |                   |                                 |                   |            |
| 3762            | H / 2.0                                                                                          | X               | 40.9         | -17.6             | 23.3                            | 14.6*             | 500        |
|                 | H / 2.0                                                                                          | Y               | 40.9         | -17.6             | 23.3                            | 14.6*             |            |
|                 | H / 1.0                                                                                          | Z               | 40.9         | -17.6             | 23.3                            | 14.6*             |            |
|                 | V / 1.5                                                                                          | X               | 40.9         | -17.6             | 23.3                            | 14.6*             |            |
|                 | V / 1.0                                                                                          | Y               | 40.9         | -17.6             | 23.3                            | 14.6*             |            |
| 3762            | V / 1.0                                                                                          | Z               | 40.9         | -17.6             | 23.3                            | 14.6*             | 500        |
|                 |                                                                                                  |                 |              |                   |                                 |                   |            |
| 4180            | H / 1.0                                                                                          | X               | 40.9         | -17.6             | 23.3                            | 14.6*             | 500        |
|                 | H / 1.0                                                                                          | Y               | 40.9         | -17.6             | 23.3                            | 14.6*             |            |
|                 | H / 1.5                                                                                          | Z               | 40.9         | -17.6             | 23.3                            | 14.6*             |            |
|                 | V / 1.0                                                                                          | X               | 40.9         | -17.6             | 23.3                            | 14.6*             |            |
|                 | V / 1.0                                                                                          | Y               | 40.9         | -17.6             | 23.3                            | 14.6*             |            |
| 4180            | V / 1.0                                                                                          | Z               | 40.9         | -17.6             | 23.3                            | 14.6*             | 500        |
|                 | The frequency range was scanned from 30 MHz to 4.18 GHz. All emissions not recorded were more    |                 |              |                   |                                 |                   |            |
|                 | Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits. |                 |              |                   |                                 |                   |            |
|                 | *=Noise Floor Measurements (Minimum system sensitivity)                                          |                 |              |                   |                                 |                   |            |



**Retlif Testing Laboratories**

Retlif Job Number R-9963-1

R-9963-/ X-10 SFR1 Occupied Bandwidth ND  
 REF 68.5 dB $\mu$ V ATTEN 10 dB  
 MKR  $\Delta$  61 kHz  
 -0.20 dB



SPAN 1.05 MHz  
 SWP 200 msec

VBW 30 kHz

CENTER 418.05 MHz  
 RES BW 10 kHz

h<sub>p</sub>  
 10 dB/

DL  
 48.5  
 dB $\mu$ V

|              |                                                                                            |         |             |
|--------------|--------------------------------------------------------------------------------------------|---------|-------------|
| Customer:    | X-10 Wireless Technology, Inc.                                                             |         |             |
| Test Sample: | 418 MHz Pulsed RF Transmitter                                                              |         |             |
| Model No.:   | SFR1                                                                                       | FCC ID: | B4SSFR1     |
| Test Method: | FCC 15.231(c) Occupied Bandwidth                                                           |         |             |
| Notes:       | Bandwidth does not exceed .25% of Center Frequency, 20dB down<br>(.0025 X 418 = 1.045 MHz) |         |             |
| Date:        | July 3, 2003                                                                               | Tech:   | N. Dragotta |
| Sheet        | 1                                                                                          | of      | 1           |



**Retlif Testing Laboratories**

Report No. R-9963-1