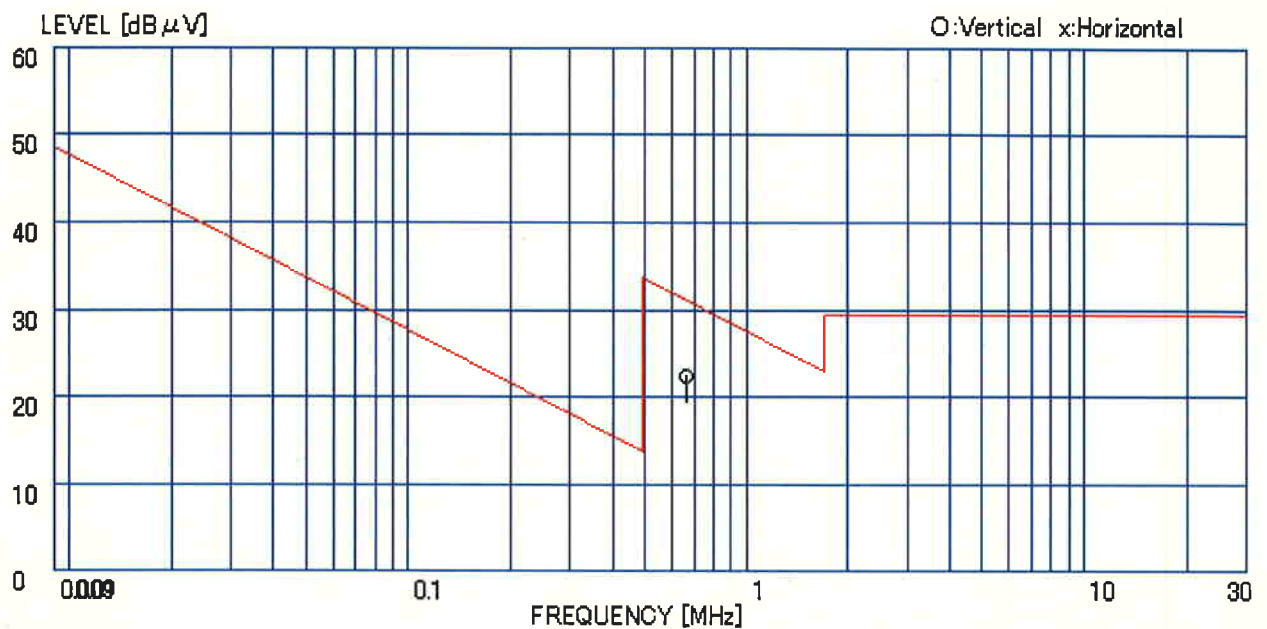
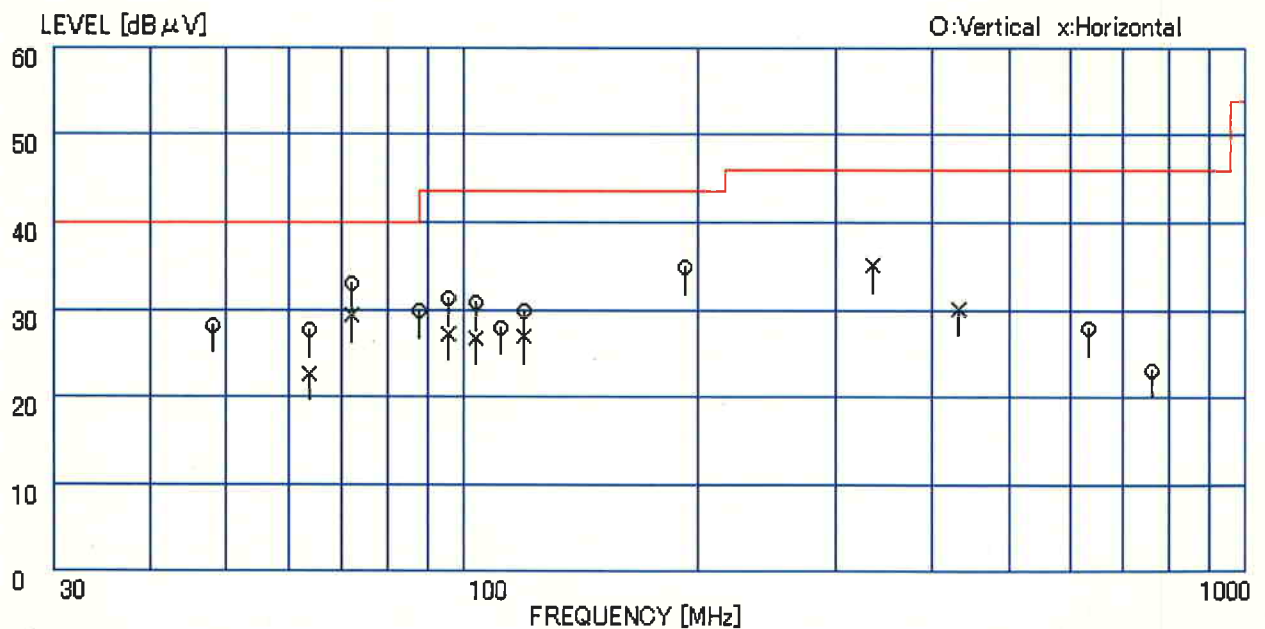




<0.09MHz to 30MHz>



<30MHz to 1000MHz>

**Figure 6.2-3** RFI Field Strength Measurement Results

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*Kazunori Maeshima*

Hiroko Nakamura  
15/Dec./2005

Kazunori Maeshima, Engineer

**Table 6.2-4a** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<0.009MHz to 30MHz>

Model Name: PTZ-1230 + ZP-501E

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

Test distance: 3 meters\*

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 30 Meter<br>Limit<br>(dBμV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|-------------------------------|-----------------------------|
| 0.67               | 4.0                          | 0.3                   | 0.0                  | 19.2                     | 23.5                            | 14.96                         | 31.1                          | 7.7                         |

### Limit

| Frequency (MHz) | dBμV/m      | μV/m         | Distance(m) |
|-----------------|-------------|--------------|-------------|
| 0.009 ~ 0.490   | 48.5 ~ 13.8 | 2400/F(kHz)  | 300         |
| 0.490 ~ 1.705   | 33.8 ~ 23.0 | 24000/F(kHz) | 30          |
| 1.705 ~ 30      | 29.5        | 30           | 30          |

\* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.  
Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Kazunori Maeshima, Engineer

**Table 6.2-4b** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<30MHz to 1000MHz>

Model Name: PTZ-1230 + ZP-501E

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 3 Meter<br>Limit<br>(μV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|----------------------------|-----------------------------|
| 48.00              | 43.0                         | 1.6                   | -27.0                | 10.7                     | 28.3                            | 26.00                         | 100                        | 11.7                        |
| 64.00              | 49.5                         | 42.0                  | 1.8                  | -27.0                    | 6.9                             | 31.2 23.7                     | 36.31 15.31                | 100 8.8 16.3                |
| 72.00              | 46.0                         | 43.0                  | 2.0                  | -27.0                    | 6.9                             | 27.9 24.9                     | 24.83 17.58                | 100 12.1 15.1               |
| 88.00              | 43.0                         |                       | 2.1                  | -26.8                    | 8.5                             | 26.8                          | 21.88                      | 100 13.2                    |
| 96.00              | 46.0                         | 43.0                  | 2.4                  | -27.0                    | 9.9                             | 31.2 28.2                     | 36.31 25.70                | 150 12.3 15.3               |
| 104.00             | 44.0                         | 41.0                  | 2.4                  | -26.8                    | 11.3                            | 30.8 27.8                     | 34.67 24.55                | 150 12.7 15.7               |
| 112.00             | 41.5                         |                       | 2.5                  | -26.8                    | 12.3                            | 29.5                          | 29.85                      | 150 14.0                    |
| 120.00             | 41.0                         | 39.0                  | 2.6                  | -26.8                    | 13.1                            | 29.9 27.9                     | 31.26 24.83                | 150 13.6 15.6               |
| 192.00             | 41.0                         |                       | 3.4                  | -26.2                    | 16.6                            | 34.8                          | 54.95                      | 150 8.7                     |
| 336.00             |                              | 42.0                  | 4.5                  | -26.8                    | 16.4                            | 36.1                          | 63.83                      | 200 9.9                     |
| 432.00             |                              | 34.0                  | 5.3                  | -27.6                    | 18.5                            | 30.1                          | 31.99                      | 200 15.9                    |
| 631.97             | 30.0                         |                       | 6.6                  | -28.2                    | 19.5                            | 27.9                          | 24.83                      | 200 18.1                    |
| 760.00             | 23.0                         |                       | 7.1                  | -28.0                    | 21.1                            | 23.2                          | 14.45                      | 200 22.8                    |

## Class B limit

Radiated Emission – 3 meter distance

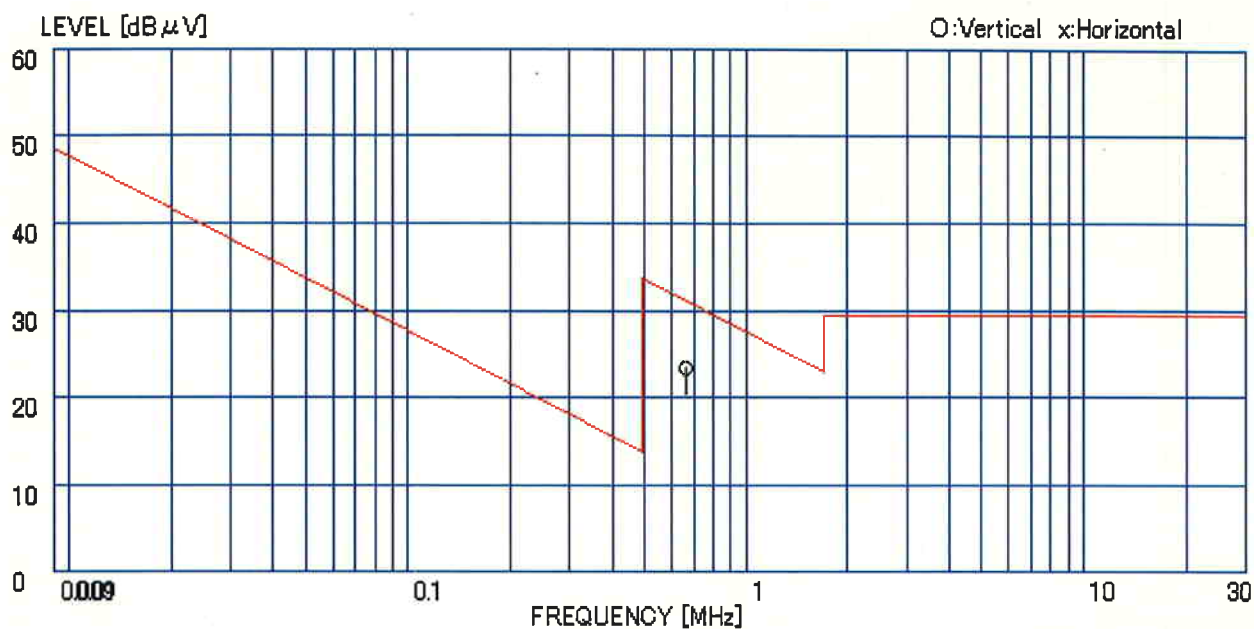
| Frequency (MHz) | dBμV/m | μV/m |
|-----------------|--------|------|
| 30 - 88         | 40.0   | 100  |
| 88 - 216        | 43.5   | 150  |
| 216 - 960       | 46.0   | 200  |
| > 960           | 54.0   | 500  |

Report processed by

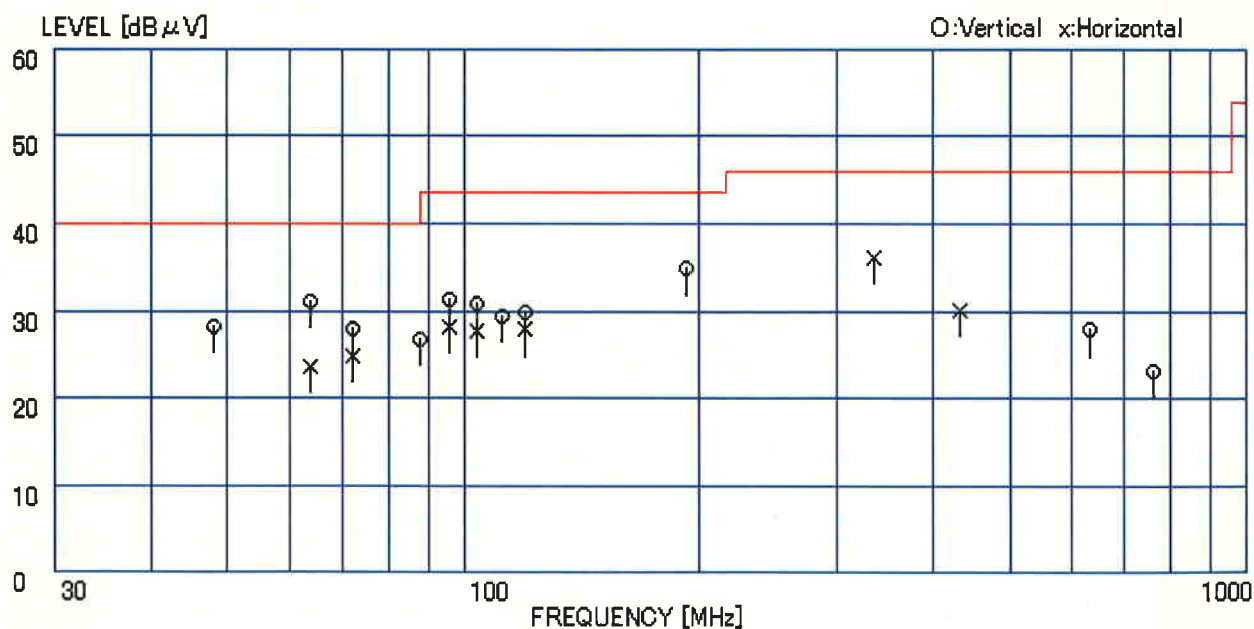
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Kazunori Maeshima, Engineer



<0.09MHz to 30MHz>



<30MHz to 1000MHz>

Figure 6.2-4 RFI Field Strength Measurement Results

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Hiroko Nakamura  
15/Dec./2005

*Kazunori Maeshima*

Kazunori Maeshima, Engineer

**Table 6.2-5a** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<0.009MHz to 30MHz>

Model Name: PTZ-1230 + ZP-600

Operating mode: Device detection state

Test procedure: ANSI C63.4-2003

Test condition: Power input 1phase AC120V  
DC5V

Test distance: 3 meters\*

Date of measurement: October 26, 2005

Temperature: 20 degree C

Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 30 Meter<br>Limit<br>(dBμV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|-------------------------------|-----------------------------|
| 0.67               | 3.0                          | 0.3                   | 0.0                  | 19.2                     | 22.5                            | 13.34                         | 31.1                          | 8.7                         |

### Limit

| Frequency (MHz) | dBμV/m      | μV/m         | Distance(m) |
|-----------------|-------------|--------------|-------------|
| 0.009 ~ 0.490   | 48.5 ~ 13.8 | 2400/F(kHz)  | 300         |
| 0.490 ~ 1.705   | 33.8 ~ 23.0 | 24000/F(kHz) | 30          |
| 1.705 ~ 30      | 29.5        | 30           | 30          |

\* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.

Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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**Table 6.2-5b** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<30MHz to 1000MHz>

Model Name: PTZ-1230 + ZP-600  
Operating mode: Device detection state  
Test procedure: ANSI C63.4-2003  
Test condition: Power input 1phase AC120V  
DC5V

Date of measurement: October 26, 2005  
Temperature: 20 degree C  
Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 3 Meter<br>Limit<br>(μV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|----------------------------|-----------------------------|
| 48.00              | 43.0                         | 1.6                   | -27.0                | 10.7                     | 28.3                            | 26.00                         | 100                        | 11.7                        |
| 64.00              | 47.0                         | 42.0                  | 1.8                  | -27.0                    | 6.9                             | 28.7 23.7                     | 27.23 15.31                | 100 11.3 16.3               |
| 72.00              | 52.0                         | 48.5                  | 2.0                  | -27.0                    | 6.9                             | 33.9 30.4                     | 49.55 33.11                | 100 6.1 9.6                 |
| 88.00              | 48.0                         | 2.1                   | -26.8                | 8.5                      | 31.8                            | 38.90                         | 100                        | 8.2                         |
| 96.00              | 46.0                         | 42.0                  | 2.4                  | -27.0                    | 9.9                             | 31.2 27.2                     | 36.31 22.91                | 150 12.3 16.3               |
| 104.00             | 44.0                         | 40.5                  | 2.4                  | -26.8                    | 11.3                            | 30.8 27.3                     | 34.67 23.17                | 150 12.7 16.2               |
| 112.00             | 40.0                         | 2.5                   | -26.8                | 12.3                     | 28.0                            | 25.12                         | 150                        | 15.5                        |
| 120.00             | 41.0                         | 38.0                  | 2.6                  | -26.8                    | 13.1                            | 29.9 26.9                     | 31.26 22.13                | 150 13.6 16.6               |
| 192.00             | 41.0                         | 3.4                   | -26.2                | 16.6                     | 34.8                            | 54.95                         | 150                        | 8.7                         |
| 336.00             | 42.0                         | 4.5                   | -26.8                | 16.4                     | 36.1                            | 63.83                         | 200                        | 9.9                         |
| 432.00             | 34.0                         | 5.3                   | -27.6                | 18.5                     | 30.1                            | 31.99                         | 200                        | 15.9                        |
| 631.97             | 30.0                         | 6.6                   | -28.2                | 19.5                     | 27.9                            | 24.83                         | 200                        | 18.1                        |
| 760.00             | 23.0                         | 7.1                   | -28.0                | 21.1                     | 23.2                            | 14.45                         | 200                        | 22.8                        |

## Class B limit

Radiated Emission – 3 meter distance

| Frequency (MHz) | dBμV/m | μV/m |
|-----------------|--------|------|
| 30 - 88         | 40.0   | 100  |
| 88 - 216        | 43.5   | 150  |
| 216 - 960       | 46.0   | 200  |
| > 960           | 54.0   | 500  |

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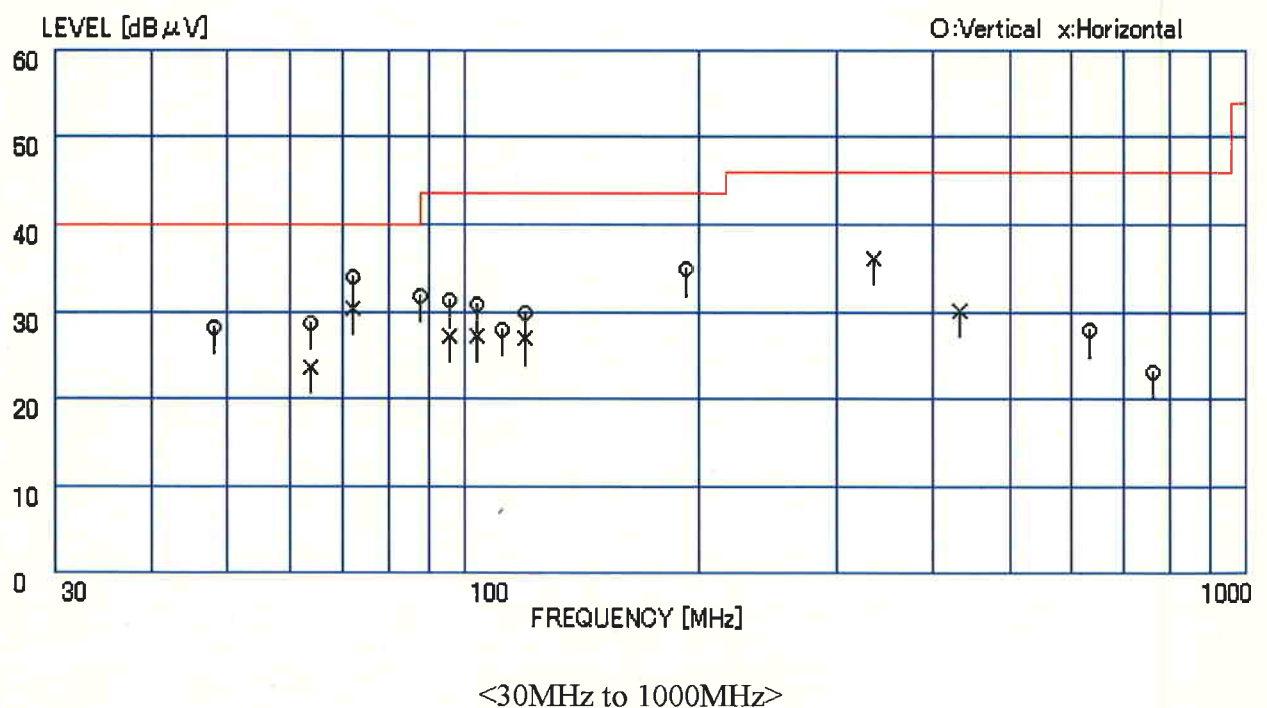
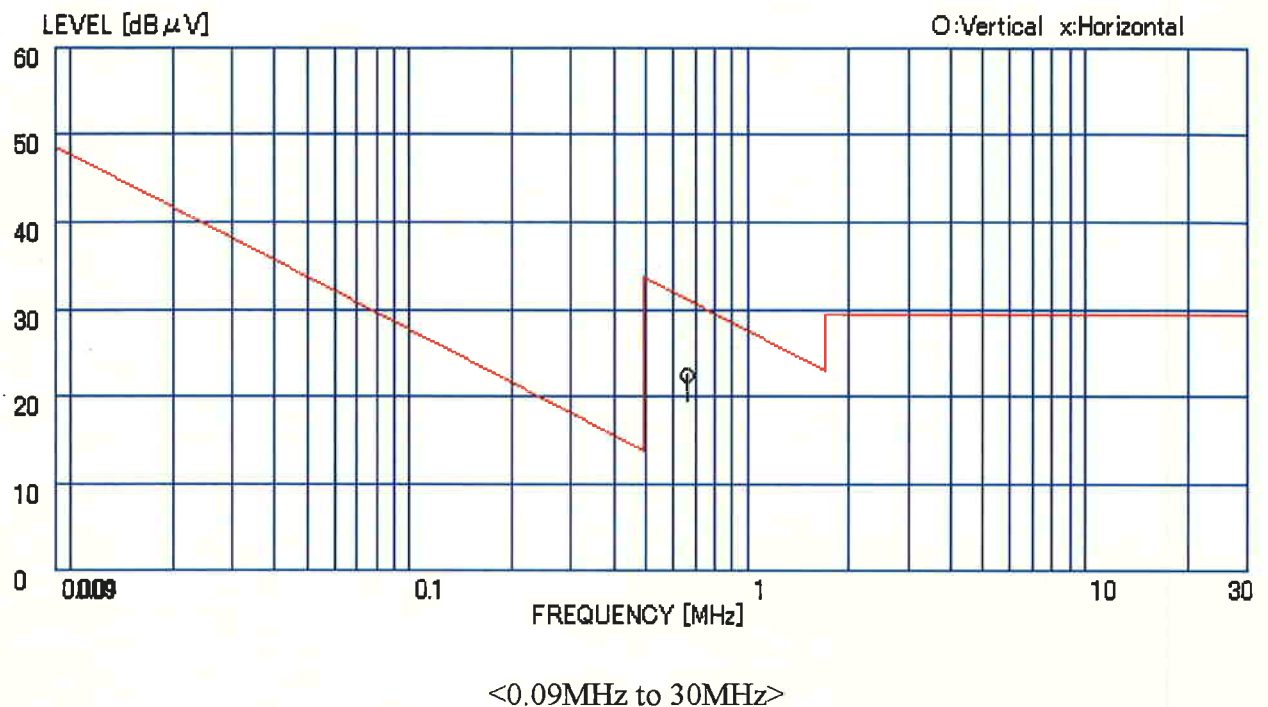


Figure 6.2-5 RFI Field Strength Measurement Results

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Kazunori Maeshima, Engineer

**Table 6.2-6a** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<0.009MHz to 30MHz>

Model Name: PTZ-1230 + ZC-100  
Operating mode: Device detection state  
Test procedure: ANSI C63.4-2003  
Test condition: Power input 1phase AC120V  
DC5V  
Test distance: 3 meters\*

Date of measurement: October 26, 2005

Temperature: 20 degree C

Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 30 Meter<br>Limit<br>(dBμV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|-------------------------------|-----------------------------|
| 0.67               | 2.0                          | 0.3                   | 0.0                  | 19.2                     | 21.5                            | 11.89                         | 31.1                          | 9.7                         |

### Limit

| Frequency (MHz) | dBμV/m      | μV/m         | Distance(m) |
|-----------------|-------------|--------------|-------------|
| 0.009 ~ 0.490   | 48.5 ~ 13.8 | 2400/F(kHz)  | 300         |
| 0.490 ~ 1.705   | 33.8 ~ 23.0 | 24000/F(kHz) | 30          |
| 1.705 ~ 30      | 29.5        | 30           | 30          |

\* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.  
Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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**Table 6.2-6b** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<30MHz to 1000MHz>

Model Name: PTZ-1230 + ZC-100

Operating mode: Device detection state

Test procedure: ANSI C63.4-2003

Test condition: Power input 1phase AC120V  
DC5V

Date of measurement: October 25, 2005

Temperature: 22 degree C

Humidity: 43 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 3 Meter<br>Limit<br>(μV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|----------------------------|-----------------------------|
| 48.00              | 43.0                         | 1.6                   | -27.0                | 10.7                     | 28.3                            | 26.00                         | 100                        | 11.7                        |
| 64.00              | 46.0 41.0                    | 1.8                   | -27.0                | 6.9                      | 27.7 22.7                       | 24.27 13.65                   | 100                        | 12.3 17.3                   |
| 72.00              | 52.0 48.0                    | 2.0                   | -27.0                | 6.9                      | 33.9 29.9                       | 49.55 31.26                   | 100                        | 6.1 10.1                    |
| 88.00              | 46.0                         | 2.1                   | -26.8                | 8.5                      | 29.8                            | 30.90                         | 100                        | 10.2                        |
| 96.00              | 46.0 42.0                    | 2.4                   | -27.0                | 9.9                      | 31.2 27.2                       | 36.31 22.91                   | 150                        | 12.3 16.3                   |
| 104.00             | 42.5 39.0                    | 2.4                   | -26.8                | 11.3                     | 29.3 25.8                       | 29.17 19.50                   | 150                        | 14.2 17.7                   |
| 112.00             | 40.0                         | 2.5                   | -26.8                | 12.3                     | 28.0                            | 25.12                         | 150                        | 15.5                        |
| 120.00             | 41.0 38.0                    | 2.6                   | -26.8                | 13.1                     | 29.9 26.9                       | 31.26 22.13                   | 150                        | 13.6 16.6                   |
| 192.00             | 41.0                         | 3.4                   | -26.2                | 16.6                     | 34.8                            | 54.95                         | 150                        | 8.7                         |
| 336.00             | 42.0                         | 4.5                   | -26.8                | 16.4                     | 36.1                            | 63.83                         | 200                        | 9.9                         |
| 432.00             | 34.0                         | 5.3                   | -27.6                | 18.5                     | 30.1                            | 31.99                         | 200                        | 15.9                        |
| 631.97             | 30.0                         | 6.6                   | -28.2                | 19.5                     | 27.9                            | 24.83                         | 200                        | 18.1                        |
| 760.00             | 23.0                         | 7.1                   | -28.0                | 21.1                     | 23.2                            | 14.45                         | 200                        | 22.8                        |

## Class B limit

Radiated Emission – 3 meter distance

| Frequency (MHz) | dBμV/m | μV/m |
|-----------------|--------|------|
| 30 - 88         | 40.0   | 100  |
| 88 - 216        | 43.5   | 150  |
| 216 - 960       | 46.0   | 200  |
| > 960           | 54.0   | 500  |

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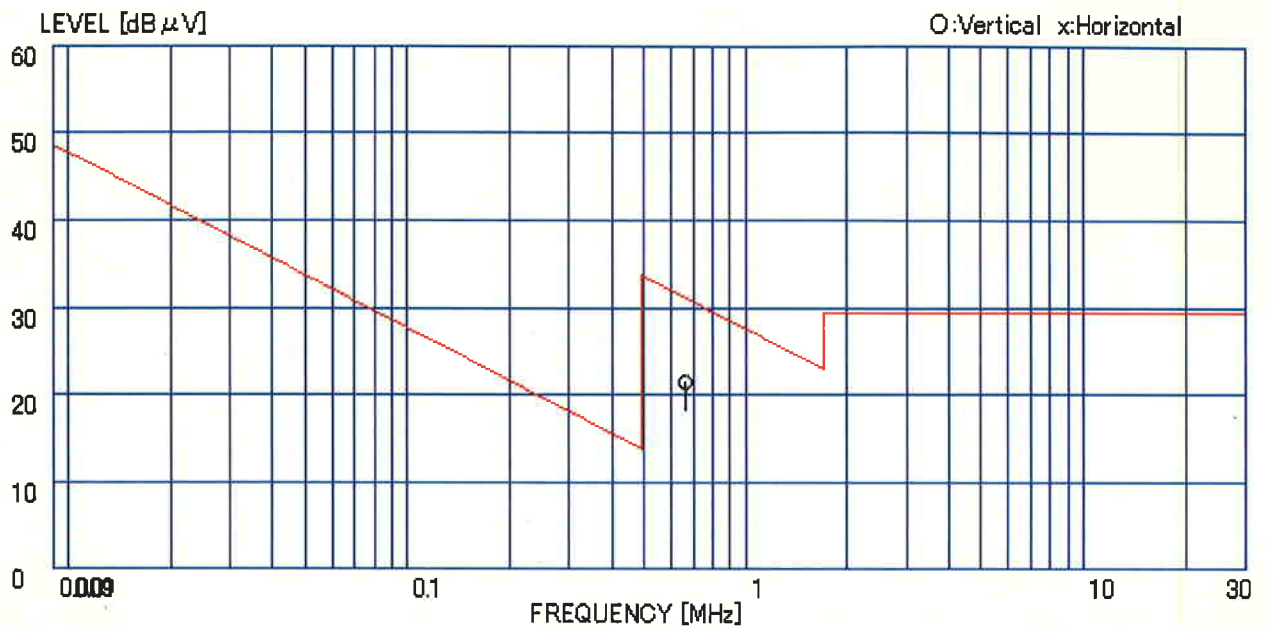


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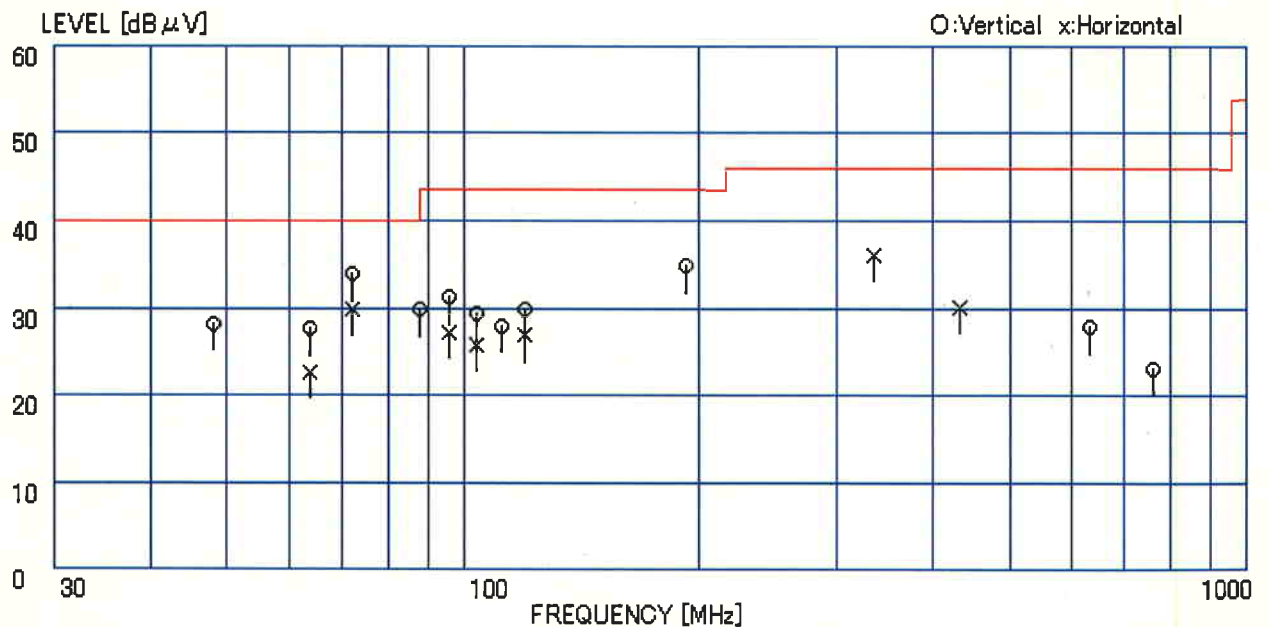
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<0.09MHz to 30MHz>



<30MHz to 1000MHz>

**Figure 6.2-6** RFI Field Strength Measurement Results

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15/Dec./2005

*Kazunori Maeshima*

Kazunori Maeshima, Engineer

**Table 6.2-7a** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<0.009MHz to 30MHz>

Model Name: PTZ-1230 + ZC-210  
Operating mode: Device detection state  
Test procedure: ANSI C63.4-2003  
Test condition: Power input 1phase AC120V  
DC5V  
Test distance: 3 meters\*

Date of measurement: October 26, 2005  
Temperature: 20 degree C  
Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 30 Meter<br>Limit<br>(dBμV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|-------------------------------|-----------------------------|
| 0.67               | 3.0                          | 0.3                   | 0.0                  | 19.2                     | 22.5                            | 13.34                         | 31.1                          | 8.7                         |

### Limit

| Frequency (MHz) | dBμV/m      | μV/m         | Distance(m) |
|-----------------|-------------|--------------|-------------|
| 0.009 ~ 0.490   | 48.5 ~ 13.8 | 2400/F(kHz)  | 300         |
| 0.490 ~ 1.705   | 33.8 ~ 23.0 | 24000/F(kHz) | 30          |
| 1.705 ~ 30      | 29.5        | 30           | 30          |

\* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.  
Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Kazunori Maeshima, Engineer

**Table 6.2-7b** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<30MHz to 1000MHz>

Model Name: PTZ-1230 + ZC-210

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 3 Meter<br>Limit<br>(μV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|----------------------------|-----------------------------|
| 48.00              | 42.0                         | 1.6                   | -27.0                | 10.7                     | 27.3                            | 23.17                         | 100                        | 12.7                        |
| 64.00              | 45.5 41.0                    | 1.8                   | -27.0                | 6.9                      | 27.2 22.7                       | 22.91 13.65                   | 100                        | 12.8 17.3                   |
| 72.00              | 51.0 47.0                    | 2.0                   | -27.0                | 6.9                      | 32.9 28.9                       | 44.16 27.86                   | 100                        | 7.1 11.1                    |
| 88.00              | 45.5                         | 2.1                   | -26.8                | 8.5                      | 29.3                            | 29.17                         | 100                        | 10.7                        |
| 96.00              | 47.0 43.0                    | 2.4                   | -27.0                | 9.9                      | 32.2 28.2                       | 40.74 25.70                   | 150                        | 11.3 15.3                   |
| 104.00             | 44.0 41.0                    | 2.4                   | -26.8                | 11.3                     | 30.8 27.8                       | 34.67 24.55                   | 150                        | 12.7 15.7                   |
| 112.00             | 40.0                         | 2.5                   | -26.8                | 12.3                     | 28.0                            | 25.12                         | 150                        | 15.5                        |
| 120.00             | 41.0 38.0                    | 2.6                   | -26.8                | 13.1                     | 29.9 26.9                       | 31.26 22.13                   | 150                        | 13.6 16.6                   |
| 192.00             | 40.0                         | 3.4                   | -26.2                | 16.6                     | 33.8                            | 48.98                         | 150                        | 9.7                         |
| 336.00             | 42.0                         | 4.5                   | -26.8                | 16.4                     | 36.1                            | 63.83                         | 200                        | 9.9                         |
| 432.00             | 34.0                         | 5.3                   | -27.6                | 18.5                     | 30.1                            | 31.99                         | 200                        | 15.9                        |
| 631.97             | 30.0                         | 6.6                   | -28.2                | 19.5                     | 27.9                            | 24.83                         | 200                        | 18.1                        |
| 760.00             | 23.0                         | 7.1                   | -28.0                | 21.1                     | 23.2                            | 14.45                         | 200                        | 22.8                        |

## Class B limit

Radiated Emission – 3 meter distance

| Frequency (MHz) | dBμV/m | μV/m |
|-----------------|--------|------|
| 30 - 88         | 40.0   | 100  |
| 88 - 216        | 43.5   | 150  |
| 216 - 960       | 46.0   | 200  |
| > 960           | 54.0   | 500  |

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Kazunori Maeshima, Engineer

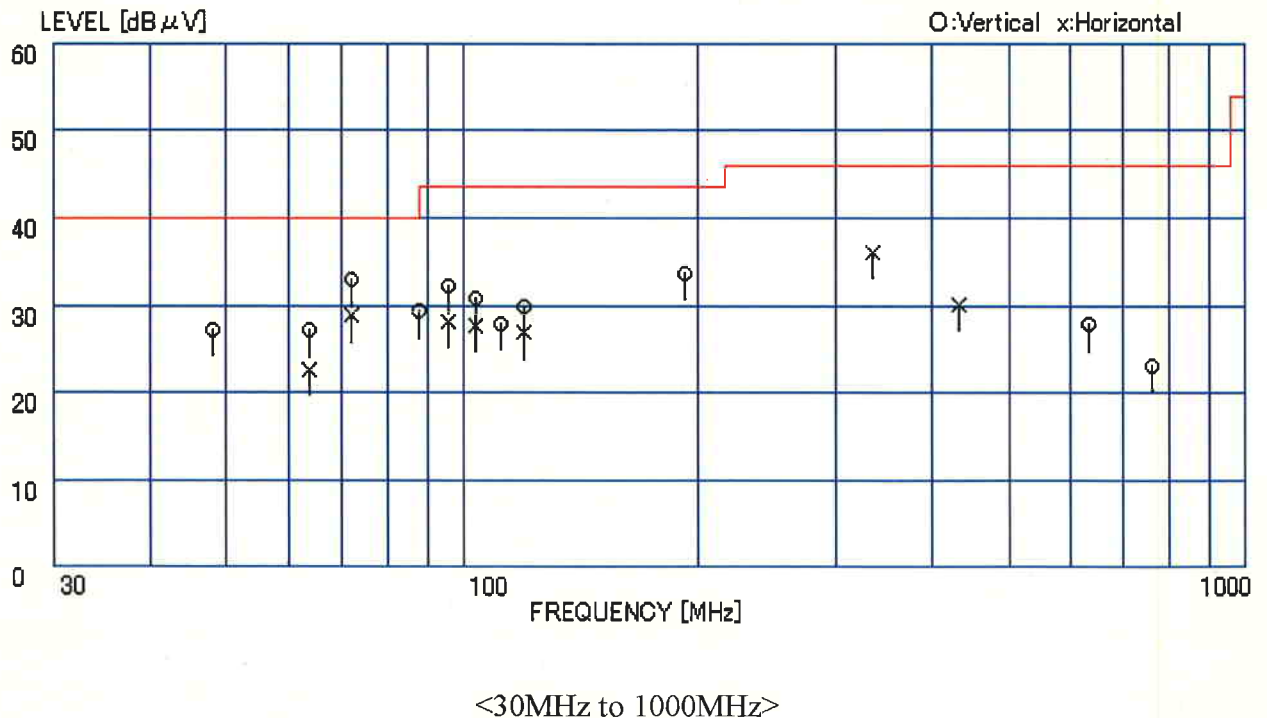
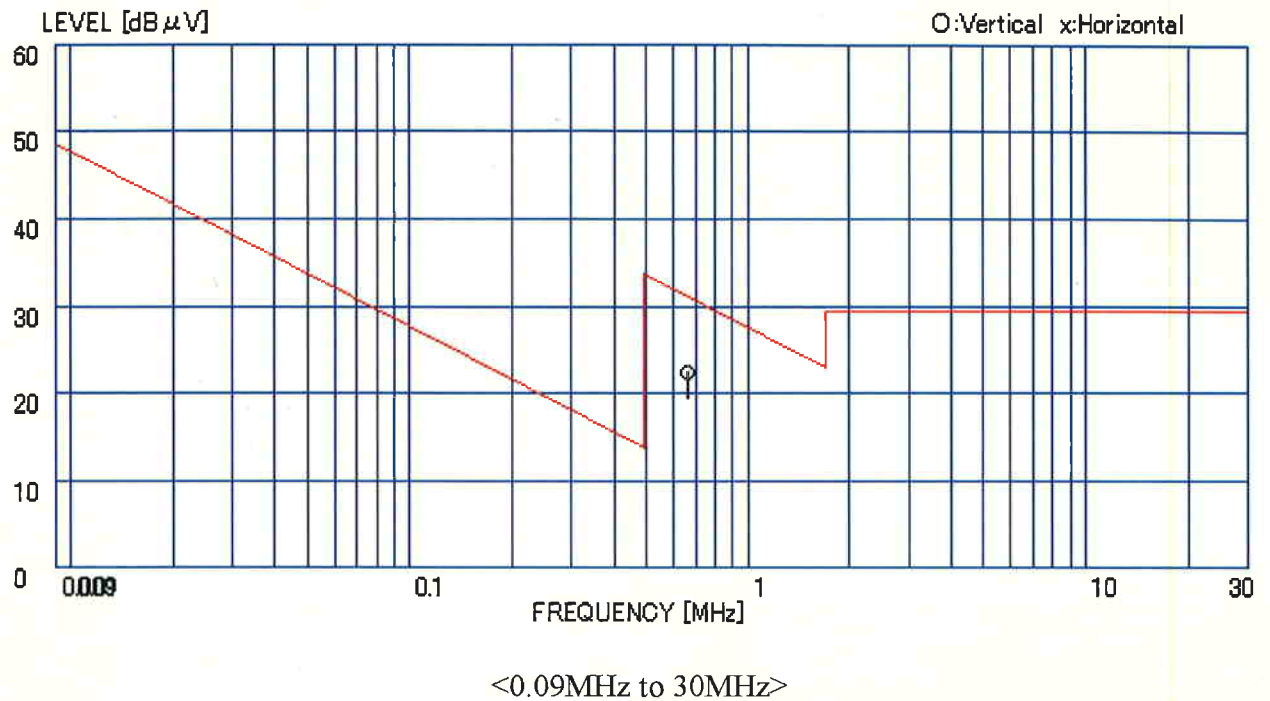


Figure 6.2-7 RFI Field Strength Measurement Results

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15/Dec./2005

*Kazunori Maeshima*

Kazunori Maeshima, Engineer

**Table 6.2-8a** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<0.009MHz to 30MHz>

Model Name: PTZ-1231W + ZP-130

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

Test distance: 3 meters\*

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 30 Meter<br>Limit<br>(dBμV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|-------------------------------|-----------------------------|
| 0.67               | 2.0                          | 0.3                   | 0.0                  | 19.2                     | 21.5                            | 11.89                         | 31.1                          | 9.7                         |

### Limit

| Frequency (MHz) | dBμV/m      | μV/m         | Distance(m) |
|-----------------|-------------|--------------|-------------|
| 0.009 ~ 0.490   | 48.5 ~ 13.8 | 2400/F(kHz)  | 300         |
| 0.490 ~ 1.705   | 33.8 ~ 23.0 | 24000/F(kHz) | 30          |
| 1.705 ~ 30      | 29.5        | 30           | 30          |

\* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.  
Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Hiroko Nakamura  
15/Dec./2005



Kazunori Maeshima, Engineer

**Table 6.2-8b** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<30MHz to 1000MHz>

Model Name: PTZ-1231W + ZP-130

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 3 Meter<br>Limit<br>(μV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|----------------------------|-----------------------------|
| 48.00              | 42.0                         | 1.6                   | -27.0                | 10.7                     | 27.3                            | 23.17                         | 100                        | 12.7                        |
| 64.00              | 50.0                         | 46.0                  | 1.8                  | -27.0                    | 6.9                             | 31.7 27.7                     | 38.46 24.27                | 100 8.3 12.3                |
| 72.00              | 46.0                         | 46.0                  | 2.0                  | -27.0                    | 6.9                             | 27.9 27.9                     | 24.83 24.83                | 100 12.1 12.1               |
| 88.00              | 48.5                         | 48.5                  | 2.1                  | -26.8                    | 8.5                             | 32.3 32.3                     | 41.21 41.21                | 100 7.7 7.7                 |
| 96.00              | 45.0                         | 46.0                  | 2.4                  | -27.0                    | 9.9                             | 30.2 31.2                     | 32.36 36.31                | 150 13.3 12.3               |
| 120.00             | 34.0                         | 36.0                  | 2.6                  | -26.8                    | 13.1                            | 22.9 24.9                     | 13.96 17.58                | 150 20.6 18.6               |
| 192.00             | 38.0                         |                       | 3.4                  | -26.2                    | 16.6                            | 31.8                          | 38.90                      | 150 11.7                    |
| 336.00             | 35.0                         | 42.0                  | 4.5                  | -26.8                    | 16.4                            | 29.1 36.1                     | 28.51 63.83                | 200 16.9 9.9                |
| 432.00             |                              | 32.0                  | 5.3                  | -27.6                    | 18.5                            | 28.1                          | 25.41                      | 200 17.9                    |
| 631.97             | 32.5                         |                       | 6.6                  | -28.2                    | 19.5                            | 30.4                          | 33.11                      | 200 15.6                    |
| 800.00             | 23.5                         |                       | 7.4                  | -27.8                    | 21.9                            | 25.0                          | 17.78                      | 200 21.0                    |

## Class B limit

Radiated Emission – 3 meter distance

| Frequency (MHz) | dBμV/m | μV/m |
|-----------------|--------|------|
| 30 - 88         | 40.0   | 100  |
| 88 - 216        | 43.5   | 150  |
| 216 - 960       | 46.0   | 200  |
| > 960           | 54.0   | 500  |

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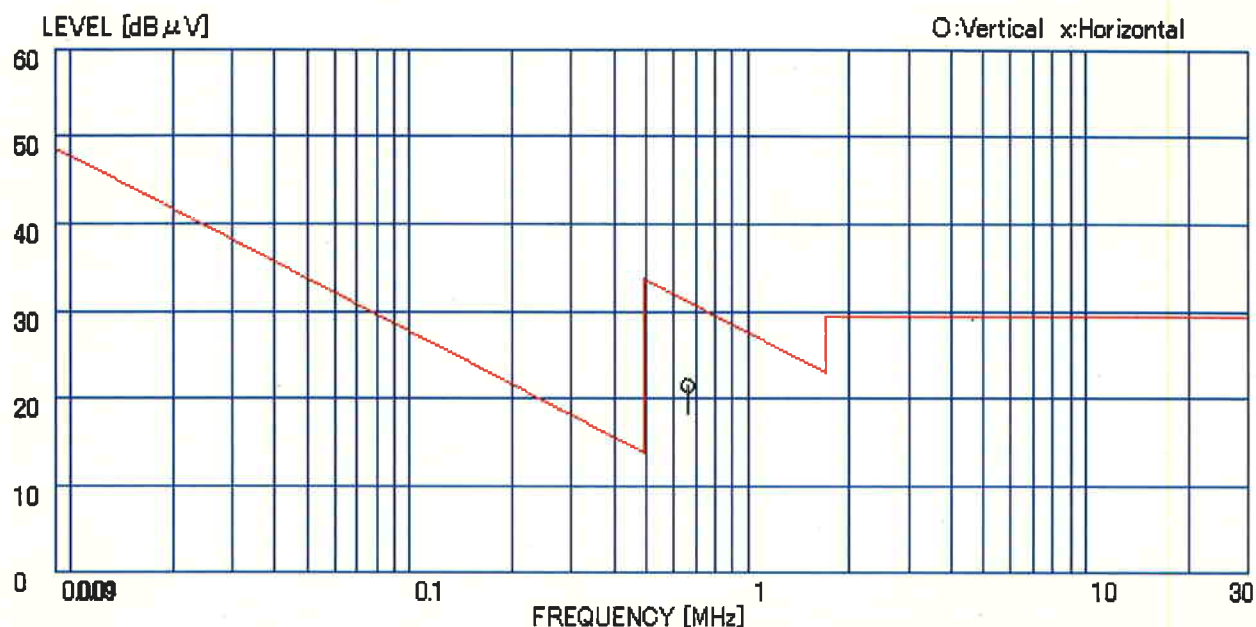
Tested by



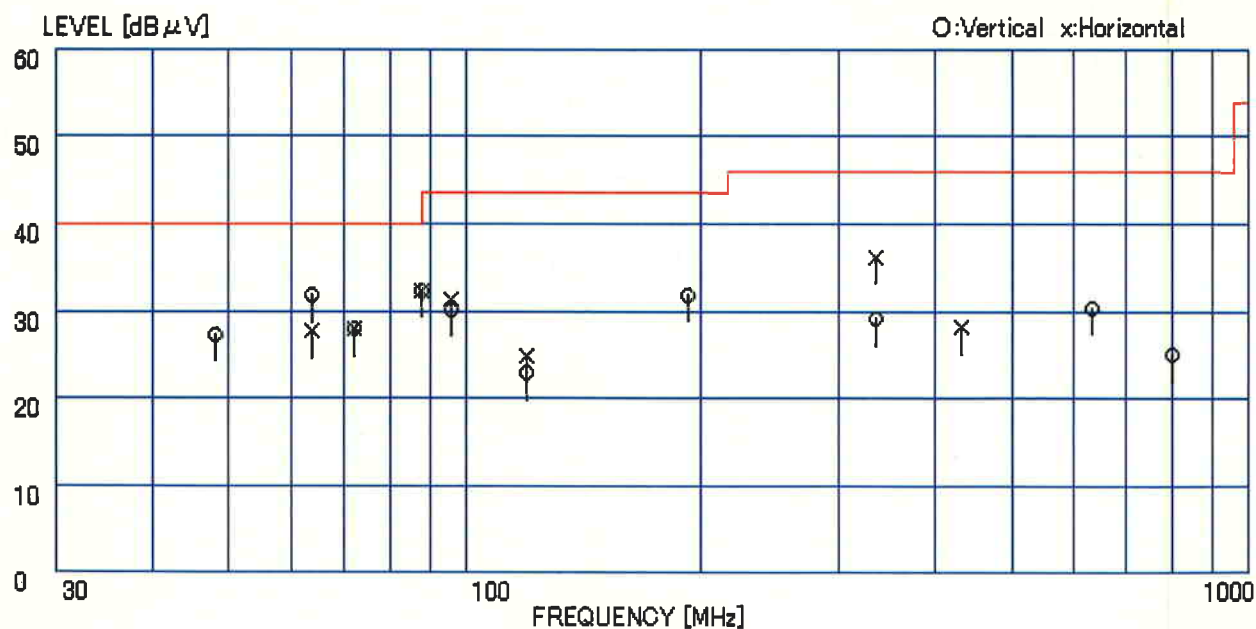
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15/Dec./2005



Kazunori Maeshima, Engineer



<0.09MHz to 30MHz>



<30MHz to 1000MHz>

Figure 6.2-8 RFI Field Strength Measurement Results

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Hiroko Nakamura  
15/Dec./2005

*Kazunori Maeshima*  
Kazunori Maeshima, Engineer

**Table 6.2-9a** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<0.009MHz to 30MHz>

Model Name: PTZ-1231W + ZP-300E

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

Test distance: 3 meters\*

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 30 Meter<br>Limit<br>(dBμV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|-------------------------------|-----------------------------|
| 0.67               | 2.0                          | 0.3                   | 0.0                  | 19.2                     | 21.5                            | 11.89                         | 31.1                          | 9.7                         |

### Limit

| Frequency (MHz) | dBμV/m      | μV/m         | Distance(m) |
|-----------------|-------------|--------------|-------------|
| 0.009 ~ 0.490   | 48.5 ~ 13.8 | 2400/F(kHz)  | 300         |
| 0.490 ~ 1.705   | 33.8 ~ 23.0 | 24000/F(kHz) | 30          |
| 1.705 ~ 30      | 29.5        | 30           | 30          |

\* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.  
Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Kazunori Maeshima, Engineer

**Table 6.2-9b** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<30MHz to 1000MHz>

Model Name: PTZ-1231W + ZP-300E

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

| Frequency<br>(MHz) | Level  |      | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result   |      | Result |       | 3 Meter<br>Limit<br>(μV/m) | Margin |      |
|--------------------|--------|------|-----------------------|----------------------|--------------------------|----------|------|--------|-------|----------------------------|--------|------|
|                    | Ver.   | Hor. |                       |                      |                          | Ver.     | Hor. | Ver.   | Hor.  |                            |        |      |
|                    | (dBμV) |      |                       |                      |                          | (dBμV/m) |      | (μV/m) |       |                            | Ver.   | Hor. |
|                    |        |      | (dB)                  | (dB)                 | (dB/m)                   |          |      |        |       | (μV/m)                     | (dB)   | (dB) |
| 48.00              | 42.0   |      | 1.6                   | -27.0                | 10.7                     | 27.3     |      | 23.17  |       | 100                        | 12.7   |      |
| 64.00              | 50.0   | 46.0 | 1.8                   | -27.0                | 6.9                      | 31.7     | 27.7 | 38.46  | 24.27 | 100                        | 8.3    | 12.3 |
| 72.00              | 47.0   | 46.5 | 2.0                   | -27.0                | 6.9                      | 28.9     | 28.4 | 27.86  | 26.30 | 100                        | 11.1   | 11.6 |
| 88.00              | 48.5   | 48.0 | 2.1                   | -26.8                | 8.5                      | 32.3     | 31.8 | 41.21  | 38.90 | 100                        | 7.7    | 8.2  |
| 96.00              | 45.0   | 46.0 | 2.4                   | -27.0                | 9.9                      | 30.2     | 31.2 | 32.36  | 36.31 | 150                        | 13.3   | 12.3 |
| 120.00             | 34.0   | 36.0 | 2.6                   | -26.8                | 13.1                     | 22.9     | 24.9 | 13.96  | 17.58 | 150                        | 20.6   | 18.6 |
| 192.00             | 38.0   |      | 3.4                   | -26.2                | 16.6                     | 31.8     |      | 38.90  |       | 150                        | 11.7   |      |
| 336.00             | 35.0   | 42.0 | 4.5                   | -26.8                | 16.4                     | 29.1     | 36.1 | 28.51  | 63.83 | 200                        | 16.9   | 9.9  |
| 432.00             |        | 32.0 | 5.3                   | -27.6                | 18.5                     |          | 28.1 |        | 25.41 | 200                        |        | 17.9 |
| 631.97             | 32.5   |      | 6.6                   | -28.2                | 19.5                     | 30.4     |      | 33.11  |       | 200                        | 15.6   |      |
| 800.00             | 23.5   |      | 7.4                   | -27.8                | 21.9                     | 25.0     |      | 17.78  |       | 200                        | 21.0   |      |

## Class B limit

Radiated Emission – 3 meter distance

| Frequency (MHz) | dBμV/m | μV/m |
|-----------------|--------|------|
| 30 - 88         | 40.0   | 100  |
| 88 - 216        | 43.5   | 150  |
| 216 - 960       | 46.0   | 200  |
| > 960           | 54.0   | 500  |

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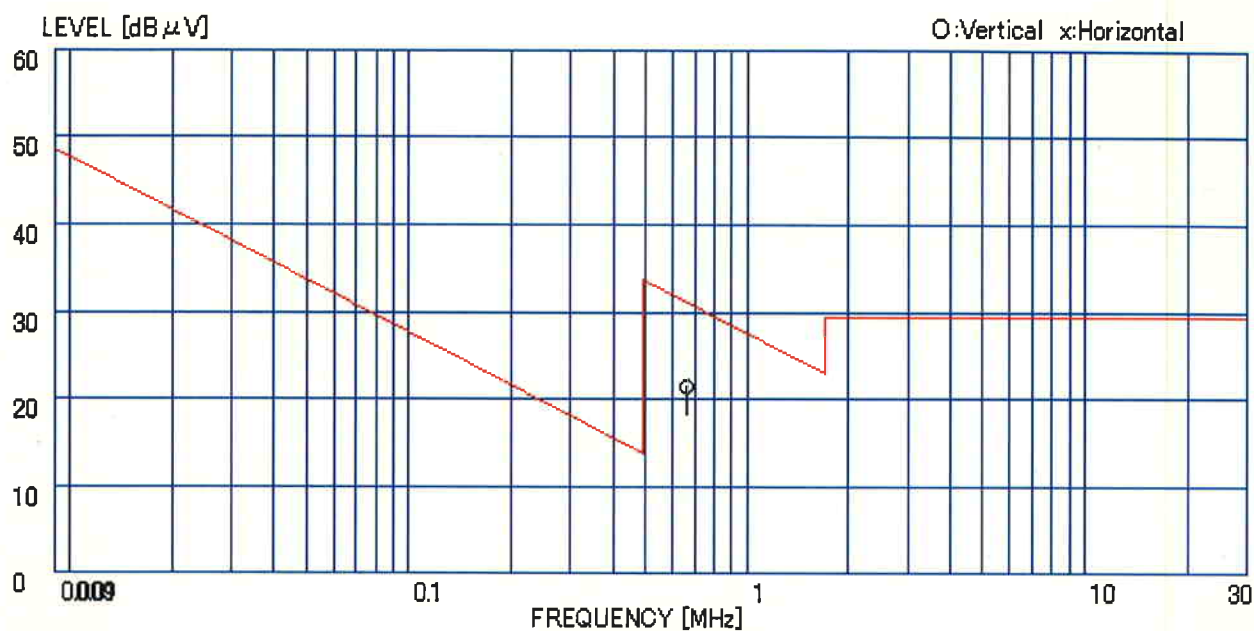
Tested by



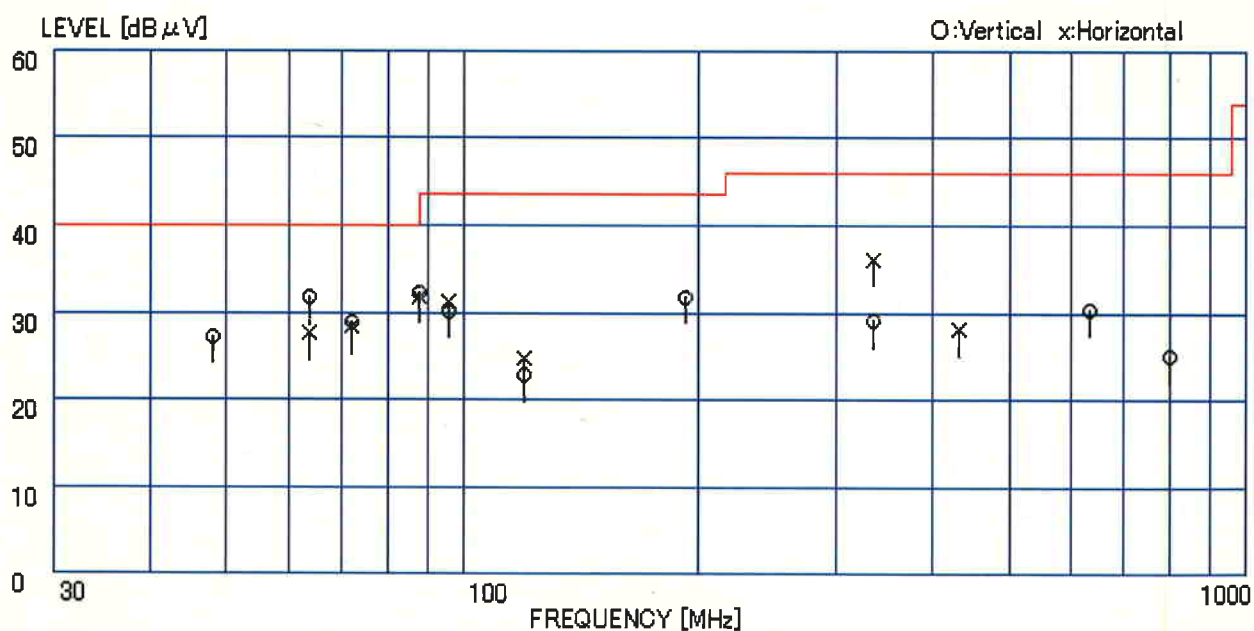
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15/Dec./2005



Kazunori Maeshima, Engineer



<0.09MHz to 30MHz>



<30MHz to 1000MHz>

Figure 6.2-9 RFI Field Strength Measurement Results

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Tested by

*H. Nakamura*

Hiroko Nakamura  
15/Dec./2005

*K. Maeshima*

Kazunori Maeshima, Engineer

**Table 6.2-10a** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<0.009MHz to 30MHz>

Model Name: PTZ-1231W + ZP-400E

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

Test distance: 3 meters\*

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 30 Meter<br>Limit<br>(dBμV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|-------------------------------|-----------------------------|
| 0.67               | 2.0                          | 0.3                   | 0.0                  | 19.2                     | 21.5                            | 11.89                         | 31.1                          | 9.7                         |

### Limit

| Frequency (MHz) | dBμV/m      | μV/m         | Distance(m) |
|-----------------|-------------|--------------|-------------|
| 0.009 ~ 0.490   | 48.5 ~ 13.8 | 2400/F(kHz)  | 300         |
| 0.490 ~ 1.705   | 33.8 ~ 23.0 | 24000/F(kHz) | 30          |
| 1.705 ~ 30      | 29.5        | 30           | 30          |

\* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.

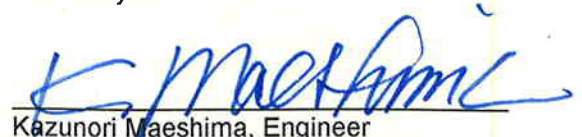
Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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15/Dec./2005



Kazunori Maeshima, Engineer

**Table 6.2-10b** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<30MHz to 1000MHz>

Model Name: PTZ-1231W + ZP-400E

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 3 Meter<br>Limit<br>(μV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|----------------------------|-----------------------------|
| 48.00              | 42.0                         | 1.6                   | -27.0                | 10.7                     | 27.3                            | 23.17                         | 100                        | 12.7                        |
| 64.00              | 51.0 47.0                    | 1.8                   | -27.0                | 6.9                      | 32.7 28.7                       | 43.15 27.23                   | 100                        | 7.3 11.3                    |
| 72.00              | 46.0 47.0                    | 2.0                   | -27.0                | 6.9                      | 27.9 28.9                       | 24.83 27.86                   | 100                        | 12.1 11.1                   |
| 88.00              | 49.5 52.0                    | 2.1                   | -26.8                | 8.5                      | 33.3 35.8                       | 46.24 61.66                   | 100                        | 6.7 4.2                     |
| 96.00              | 44.0 46.0                    | 2.4                   | -27.0                | 9.9                      | 29.2 31.2                       | 28.84 36.31                   | 150                        | 14.3 12.3                   |
| 120.00             | 34.0 36.0                    | 2.6                   | -26.8                | 13.1                     | 22.9 24.9                       | 13.96 17.58                   | 150                        | 20.6 18.6                   |
| 192.00             | 39.0                         | 3.4                   | -26.2                | 16.6                     | 32.8                            | 43.65                         | 150                        | 10.7                        |
| 336.00             | 35.0 42.0                    | 4.5                   | -26.8                | 16.4                     | 29.1 36.1                       | 28.51 63.83                   | 200                        | 16.9 9.9                    |
| 432.00             | 32.0                         | 5.3                   | -27.6                | 18.5                     | 28.1                            | 25.41                         | 200                        | 17.9                        |
| 631.97             | 32.5                         | 6.6                   | -28.2                | 19.5                     | 30.4                            | 33.11                         | 200                        | 15.6                        |
| 800.00             | 23.5                         | 7.4                   | -27.8                | 21.9                     | 25.0                            | 17.78                         | 200                        | 21.0                        |

## Class B limit

Radiated Emission – 3 meter distance

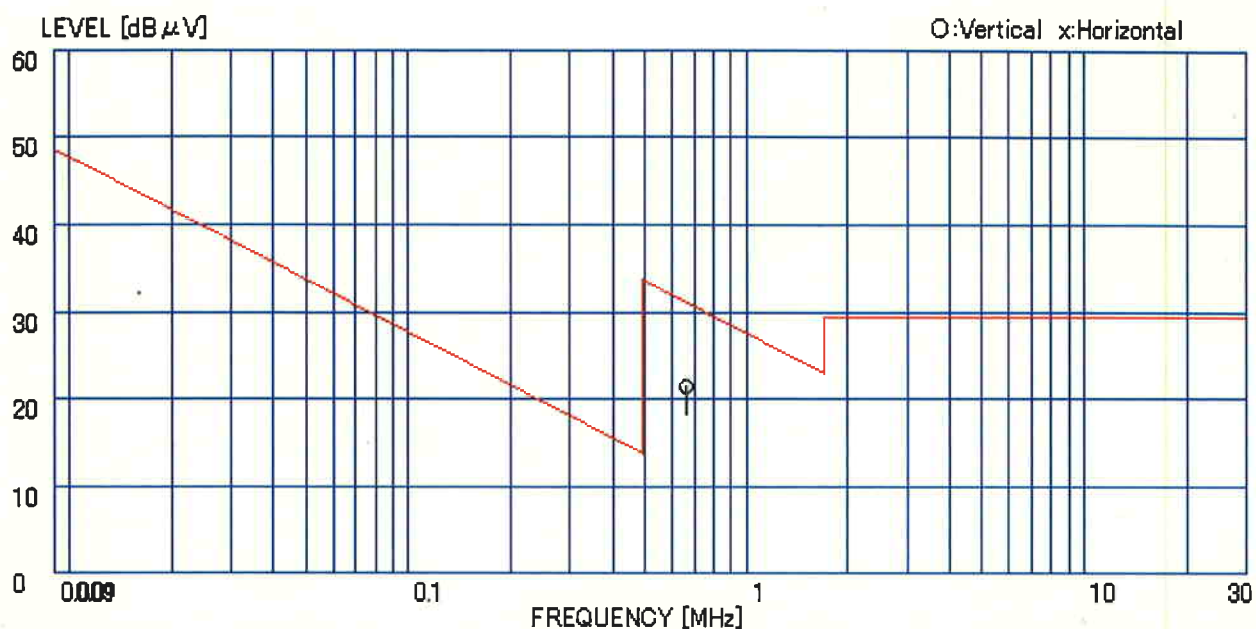
| Frequency (MHz) | dBμV/m | μV/m |
|-----------------|--------|------|
| 30 - 88         | 40.0   | 100  |
| 88 - 216        | 43.5   | 150  |
| 216 - 960       | 46.0   | 200  |
| > 960           | 54.0   | 500  |

Report processed by

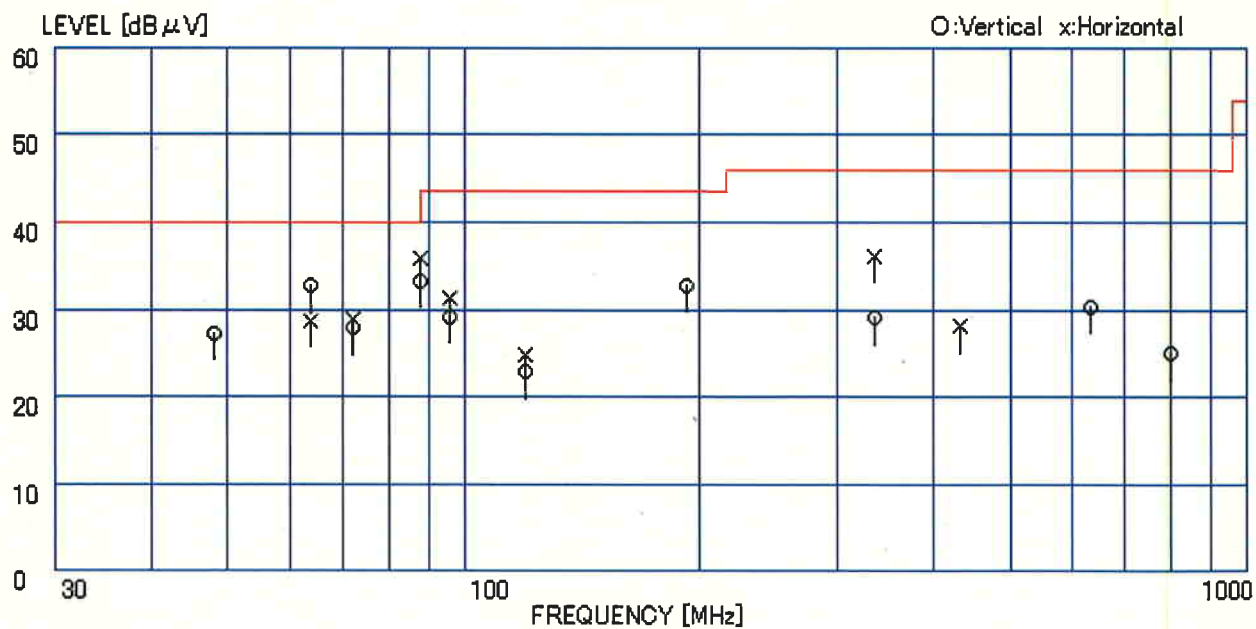
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15/Dec./2005

  
Kazunori Maeshima, Engineer



<0.09MHz to 30MHz>



<30MHz to 1000MHz>

Figure 6.2-10 RFI Field Strength Measurement Results

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*Hiroko Nakamura*

Hiroko Nakamura  
15/Dec./2005

*Kazunori Maeshima*

Kazunori Maeshima, Engineer

**Table 6.2-11a** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<0.009MHz to 30MHz>

Model Name: PTZ-1231W + ZP-501E

Operating mode: Device detection state

Test procedure: ANSI C63.4-2003

Test condition: Power input 1phase AC120V  
DC5V

Test distance: 3 meters\*

Date of measurement: October 26, 2005

Temperature: 20 degree C

Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 30 Meter<br>Limit<br>(dBμV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|-------------------------------|-----------------------------|
| 0.67               | 1.0                          | 0.3                   | 0.0                  | 19.2                     | 20.5                            | 10.59                         | 31.1                          | 10.7                        |

### Limit

| Frequency (MHz) | dBμV/m      | μV/m         | Distance(m) |
|-----------------|-------------|--------------|-------------|
| 0.009 ~ 0.490   | 48.5 ~ 13.8 | 2400/F(kHz)  | 300         |
| 0.490 ~ 1.705   | 33.8 ~ 23.0 | 24000/F(kHz) | 30          |
| 1.705 ~ 30      | 29.5        | 30           | 30          |

\* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.

Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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15/Dec./2005

Tested by



Kazunori Maeshima, Engineer

**Table 6.2-11b** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<30MHz to 1000MHz>

Model Name: PTZ-1231W + ZP-501E

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 3 Meter<br>Limit<br>(μV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|----------------------------|-----------------------------|
| 48.00              | 42.0                         | 1.6                   | -27.0                | 10.7                     | 27.3                            | 23.17                         | 100                        | 12.7                        |
| 64.00              | 50.0                         | 46.0                  | 1.8                  | -27.0                    | 6.9                             | 31.7 27.7                     | 38.46 24.27                | 100 8.3 12.3                |
| 72.00              | 46.0                         | 46.0                  | 2.0                  | -27.0                    | 6.9                             | 27.9 27.9                     | 24.83 24.83                | 100 12.1 12.1               |
| 88.00              | 48.0                         | 48.0                  | 2.1                  | -26.8                    | 8.5                             | 31.8 31.8                     | 38.90 38.90                | 100 8.2 8.2                 |
| 96.00              | 45.0                         | 46.0                  | 2.4                  | -27.0                    | 9.9                             | 30.2 31.2                     | 32.36 36.31                | 150 13.3 12.3               |
| 120.00             | 34.0                         | 37.0                  | 2.6                  | -26.8                    | 13.1                            | 22.9 25.9                     | 13.96 19.72                | 150 20.6 17.6               |
| 192.00             | 38.0                         | 32.0                  | 3.4                  | -26.2                    | 16.6                            | 31.8                          | 38.90                      | 150 11.7                    |
| 336.00             | 35.0                         | 42.0                  | 4.5                  | -26.8                    | 16.4                            | 29.1 36.1                     | 28.51 63.83                | 200 16.9 9.9                |
| 432.00             | 32.0                         | 32.0                  | 5.3                  | -27.6                    | 18.5                            | 28.1                          | 25.41                      | 200 17.9                    |
| 631.97             | 32.5                         | 6.6                   | -28.2                | 19.5                     | 30.4                            | 33.11                         | 200                        | 15.6                        |
| 800.00             | 23.5                         | 7.4                   | -27.8                | 21.9                     | 25.0                            | 17.78                         | 200                        | 21.0                        |

## Class B limit

Radiated Emission – 3 meter distance

| Frequency (MHz) | dBμV/m | μV/m |
|-----------------|--------|------|
| 30 - 88         | 40.0   | 100  |
| 88 - 216        | 43.5   | 150  |
| 216 - 960       | 46.0   | 200  |
| > 960           | 54.0   | 500  |

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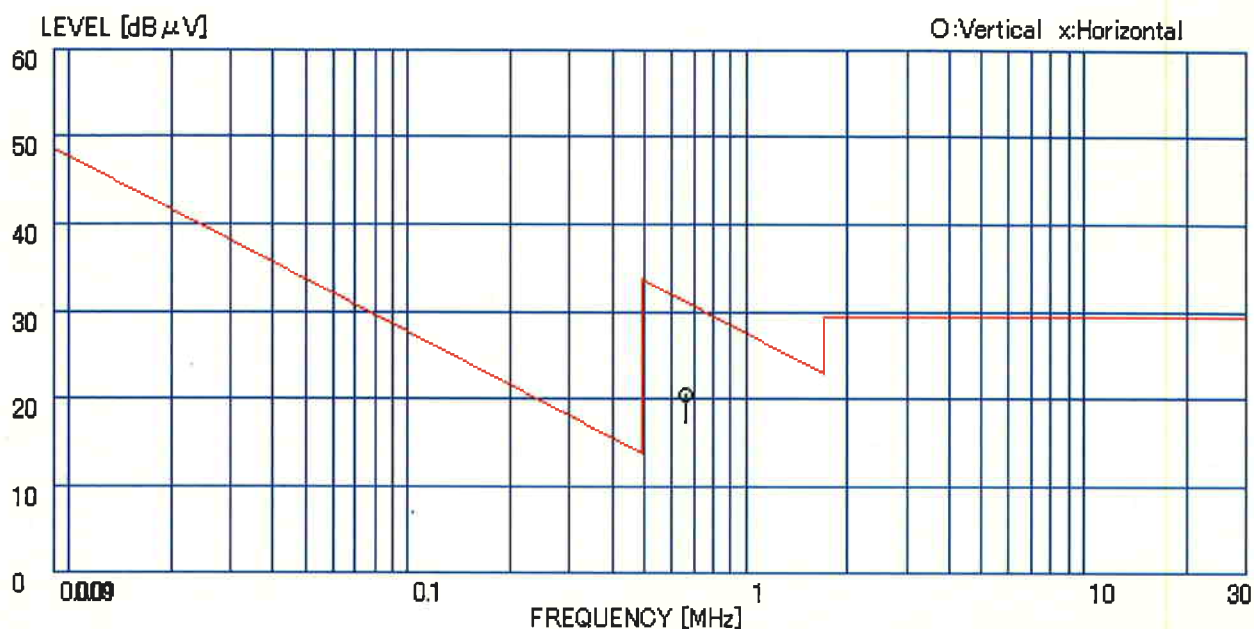
Tested by



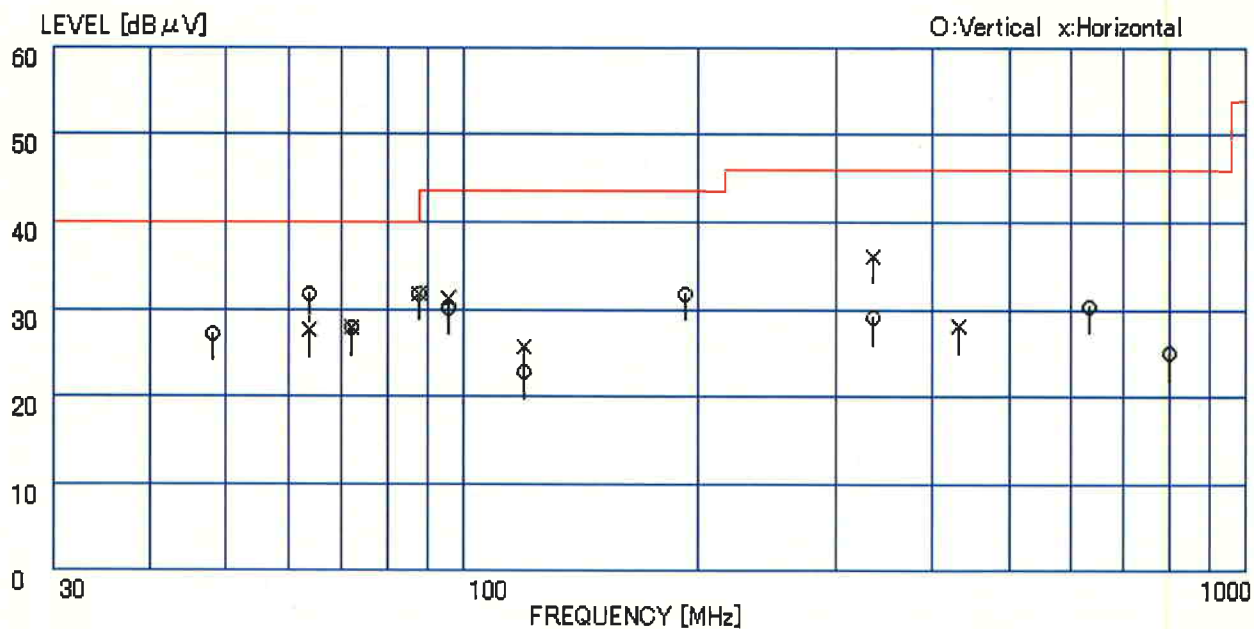
Hiroko Nakamura  
15/Dec./2005



Kazunori Maeshima, Engineer



<0.09MHz to 30MHz>



<30MHz to 1000MHz>

Figure 6.2-11 RFI Field Strength Measurement Results

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Hiroko Nakamura  
15/Dec./2005

*Kazunori Maeshima*

Kazunori Maeshima, Engineer

**Table 6.2-12a** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<0.009MHz to 30MHz>

Model Name: PTZ-1231W + ZP-600

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

Test distance: 3 meters\*

| Frequency<br>(MHz) | Level |      | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result   |      | Result |      | 30 Meter<br>Limit<br>(dBμV/m) | Margin |      |
|--------------------|-------|------|-----------------------|----------------------|--------------------------|----------|------|--------|------|-------------------------------|--------|------|
|                    | Ver.  | Hor. |                       |                      |                          | Ver.     | Hor. | Ver.   | Hor. |                               | Ver.   | Hor. |
| (dBμV)             |       |      |                       |                      |                          | (dBμV/m) |      | (μV/m) |      |                               | (dB)   |      |
| 0.67               | 2.0   |      | 0.3                   | 0.0                  | 19.2                     | 21.5     |      | 11.89  |      | 31.1                          | 9.7    |      |

## Limit

| Frequency (MHz) | dBμV/m      | μV/m         | Distance(m) |
|-----------------|-------------|--------------|-------------|
| 0.009 ~ 0.490   | 48.5 ~ 13.8 | 2400/F(kHz)  | 300         |
| 0.490 ~ 1.705   | 33.8 ~ 23.0 | 24000/F(kHz) | 30          |
| 1.705 ~ 30      | 29.5        | 30           | 30          |

\* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.

Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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Hiroko Nakamura  
15/Dec./2005



Kazunori Maeshima, Engineer

**Table 6.2-12b** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<30MHz to 1000MHz>

Model Name: PTZ-1231W + ZP-600

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 3 Meter<br>Limit<br>(μV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|----------------------------|-----------------------------|
| 48.00              | 42.0                         | 1.6                   | -27.0                | 10.7                     | 27.3                            | 23.17                         | 100                        | 12.7                        |
| 64.00              | 49.0 45.0                    | 1.8                   | -27.0                | 6.9                      | 30.7 26.7                       | 34.28 21.63                   | 100                        | 9.3 13.3                    |
| 72.00              | 45.0 46.0                    | 2.0                   | -27.0                | 6.9                      | 26.9 27.9                       | 22.13 24.83                   | 100                        | 13.1 12.1                   |
| 88.00              | 47.0 49.0                    | 2.1                   | -26.8                | 8.5                      | 30.8 32.8                       | 34.67 43.65                   | 100                        | 9.2 7.2                     |
| 96.00              | 45.0 46.0                    | 2.4                   | -27.0                | 9.9                      | 30.2 31.2                       | 32.36 36.31                   | 150                        | 13.3 12.3                   |
| 120.00             | 34.0 36.0                    | 2.6                   | -26.8                | 13.1                     | 22.9 24.9                       | 13.96 17.58                   | 150                        | 20.6 18.6                   |
| 192.00             | 38.0                         | 3.4                   | -26.2                | 16.6                     | 31.8                            | 38.90                         | 150                        | 11.7                        |
| 336.00             | 35.0 42.0                    | 4.5                   | -26.8                | 16.4                     | 29.1 36.1                       | 28.51 63.83                   | 200                        | 16.9 9.9                    |
| 432.00             | 32.0                         | 5.3                   | -27.6                | 18.5                     | 28.1                            | 25.41                         | 200                        | 17.9                        |
| 631.97             | 32.5                         | 6.6                   | -28.2                | 19.5                     | 30.4                            | 33.11                         | 200                        | 15.6                        |
| 800.00             | 23.5                         | 7.4                   | -27.8                | 21.9                     | 25.0                            | 17.78                         | 200                        | 21.0                        |

## Class B limit

Radiated Emission – 3 meter distance

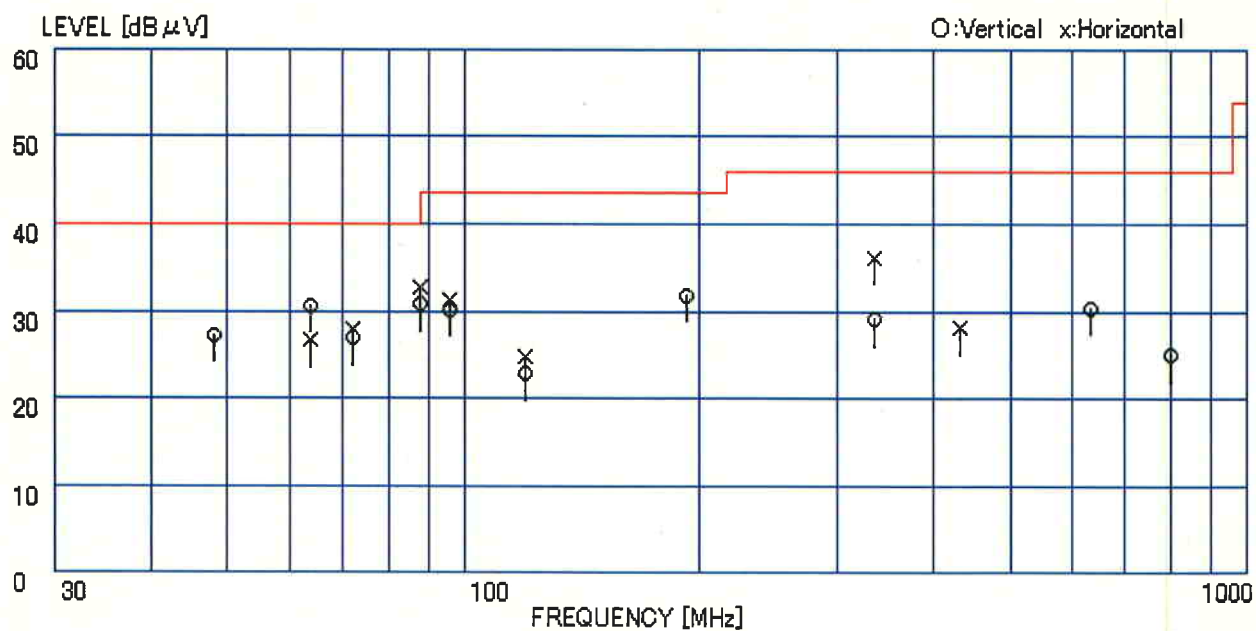
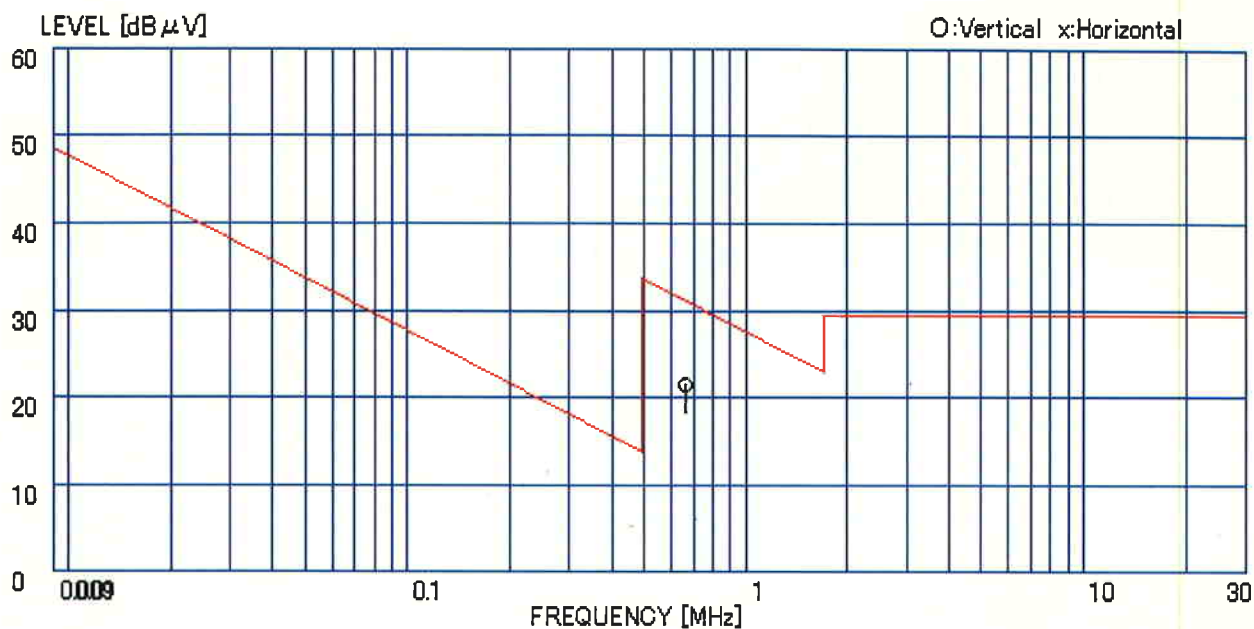
| Frequency (MHz) | dBμV/m | μV/m |
|-----------------|--------|------|
| 30 - 88         | 40.0   | 100  |
| 88 - 216        | 43.5   | 150  |
| 216 - 960       | 46.0   | 200  |
| > 960           | 54.0   | 500  |

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**Figure 6.2-12** RFI Field Strength Measurement Results

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15/Dec./2005

*Kazunori Maeshima*

Kazunori Maeshima, Engineer

**Table 6.2-13a** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<0.009MHz to 30MHz>

Model Name: PTZ-1231W + ZC-100

Operating mode: Device detection state

Test procedure: ANSI C63.4-2003

Test condition: Power input 1phase AC120V  
DC5V

Test distance: 3 meters\*

Date of measurement: October 26, 2005

Temperature: 20 degree C

Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 30 Meter<br>Limit<br>(dBμV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|-------------------------------|-----------------------------|
| 0.67               | 3.0                          | 0.3                   | 0.0                  | 19.2                     | 22.5                            | 13.34                         | 31.1                          | 8.7                         |

### Limit

| Frequency (MHz) | dBμV/m      | μV/m         | Distance(m) |
|-----------------|-------------|--------------|-------------|
| 0.009 ~ 0.490   | 48.5 ~ 13.8 | 2400/F(kHz)  | 300         |
| 0.490 ~ 1.705   | 33.8 ~ 23.0 | 24000/F(kHz) | 30          |
| 1.705 ~ 30      | 29.5        | 30           | 30          |

\* The test result obtained at 3meters from the EUT is complied with the limit of 300meters and 30meters from FCC requirement.

Therefore, the EUT had complied with FCC Part 15 Sub.part C requirement.

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**Table 6.2-13b** RFI Field Strength Measurement Results (Q-Peak Measurement)  
<30MHz to 1000MHz>

Model Name: PTZ-1231W + ZC-100

Operating mode: Device detection state

Date of measurement: October 26, 2005

Test procedure: ANSI C63.4-2003

Temperature: 20 degree C

Test condition: Power input 1phase AC120V  
DC5V

Humidity: 52 %

| Frequency<br>(MHz) | Level<br>Ver. Hor.<br>(dBμV) | Cable<br>Loss<br>(dB) | Amp.<br>Gain<br>(dB) | Ant.<br>Factor<br>(dB/m) | Result<br>Ver. Hor.<br>(dBμV/m) | Result<br>Ver. Hor.<br>(μV/m) | 3 Meter<br>Limit<br>(μV/m) | Margin<br>Ver. Hor.<br>(dB) |
|--------------------|------------------------------|-----------------------|----------------------|--------------------------|---------------------------------|-------------------------------|----------------------------|-----------------------------|
| 48.00              | 42.0                         | 1.6                   | -27.0                | 10.7                     | 27.3                            | 23.17                         | 100                        | 12.7                        |
| 64.00              | 43.0 45.5                    | 1.8                   | -27.0                | 6.9                      | 24.7 27.2                       | 17.18 22.91                   | 100                        | 15.3 12.8                   |
| 72.00              | 45.0 47.5                    | 2.0                   | -27.0                | 6.9                      | 26.9 29.4                       | 22.13 29.51                   | 100                        | 13.1 10.6                   |
| 88.00              | 53.0 53.0                    | 2.1                   | -26.8                | 8.5                      | 36.8 36.8                       | 69.18 69.18                   | 100                        | 3.2 3.2                     |
| 96.00              | 45.0 49.0                    | 2.4                   | -27.0                | 9.9                      | 30.2 34.2                       | 32.36 51.29                   | 150                        | 13.3 9.3                    |
| 120.00             | 35.0 39.0                    | 2.6                   | -26.8                | 13.1                     | 23.9 27.9                       | 15.67 24.83                   | 150                        | 19.6 15.6                   |
| 192.00             | 38.0                         | 3.4                   | -26.2                | 16.6                     | 31.8                            | 38.90                         | 150                        | 11.7                        |
| 336.00             | 35.0 42.0                    | 4.5                   | -26.8                | 16.4                     | 29.1 36.1                       | 28.51 63.83                   | 200                        | 16.9 9.9                    |
| 432.00             | 32.0                         | 5.3                   | -27.6                | 18.5                     | 28.1                            | 25.41                         | 200                        | 17.9                        |
| 631.97             | 32.5                         | 6.6                   | -28.2                | 19.5                     | 30.4                            | 33.11                         | 200                        | 15.6                        |
| 800.00             | 23.5                         | 7.4                   | -27.8                | 21.9                     | 25.0                            | 17.78                         | 200                        | 21.0                        |

## Class B limit

Radiated Emission – 3 meter distance

| Frequency (MHz) | dBμV/m | μV/m |
|-----------------|--------|------|
| 30 - 88         | 40.0   | 100  |
| 88 - 216        | 43.5   | 150  |
| 216 - 960       | 46.0   | 200  |
| > 960           | 54.0   | 500  |

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