

**APPLICANT:** ARKON TECHNOLOGIES INC.

**FCC ID:** PBWFH24R16

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## EMC Equipment List

|   | DEVICE                                              | MFGR             | MODEL         | SERNO                    | CAL/CHAR<br>DATE   | DUE DATE<br>or STATUS |
|---|-----------------------------------------------------|------------------|---------------|--------------------------|--------------------|-----------------------|
| X | 3-Meter<br>OATS                                     | TEI              | N/A           | N/A                      | Listed<br>12/22/99 | 12/22/02              |
|   | 3/10-Meter<br>OATS                                  | TEI              | N/A           | N/A                      | Listed<br>3/26/01  | 3/26/04               |
|   | Receiver, Beige Tower<br>Spectrum Analyzer<br>(Tan) | HP               | 8566B Opt 462 | 3138A07786<br>3144A20661 | CAL<br>8/31/01     | 8/31/03               |
|   | RF Preselector<br>(Tan)                             | HP               | 85685A        | 3221A01400               | CAL<br>8/31/01     | 8/31/03               |
|   | Quasi-Peak Adapter<br>(Tan)                         | HP               | 85650A        | 3303A01690               | CAL<br>8/31/01     | 8/31/03               |
| X | Receiver, Blue Tower<br>Spectrum Analyzer<br>(Blue) | HP               | 8568B         | 2928A04729               | CHAR<br>10/22/01   | 10/22/03              |
| X | RF Preselector<br>(Blue)                            | HP               | 85685A        | 2848A18049<br>2926A00983 | CHAR<br>10/22/01   | 10/22/03              |
| X | Quasi-Peak Adapter<br>(Blue)                        | HP               | 85650A        | 2811A01279               | CHAR<br>10/22/01   | 10/22/03              |
| X | Biconnical Antenna                                  | Electro-Metrics  | BIA-25        | 1171                     | CAL<br>4/26/01     | 4/26/03               |
|   | Biconnical Antenna                                  | Eaton            | 94455-1       | 1096                     | CAL<br>10/1/01     | 10/1/03               |
|   | Biconnical Antenna                                  | Eaton            | 94455-1       | 1057                     | CHAR<br>3/15/00    | 3/15/02               |
|   | BiconiLog Antenna                                   | EMCO             | 3143          | 9409-1043                |                    |                       |
| X | Log-Periodic<br>Antenna                             | Electro-Metrics  | LPA-25        | 1122                     | CAL<br>10/2/01     | 10/2/03               |
|   | Log-Periodic<br>Antenna                             | Electro-Metrics  | EM-6950       | 632                      | CHAR<br>10/15/01   | 10/15/03              |
|   | Log-Periodic<br>Antenna                             | Electro-Metrics  | LPA-30        | 409                      | CHAR<br>10/16/01   | 10/16/03              |
|   | Dipole Antenna<br>Kit                               | Electro-Metrics  | TDA-30/1-4    | 152                      | CAL<br>3/21/01     | 3/21/04               |
|   | Dipole Antenna<br>Kit                               | Electro-Metrics  | TDA-30/1-4    | 153                      | CHAR<br>11/24/00   | 11/24/03              |
|   | Double-Ridged Horn<br>Antenna                       | Electro-Metrics  | RGA -180      | 2319                     | CAL<br>12/19/01    | 12/19/03              |
|   | Horn Antenna                                        | Electro-Metrics  | EM-6961       | 6246                     | CAL<br>3/21/01     | 3/21/03               |
|   | Horn Antenna                                        | ATM              | 19-443-6R     | None                     | No Cal<br>Required |                       |
|   | Passive Loop Antenna                                | EMC Test Systems | EMCO 6512     | 9706-1211                | CHAR<br>7/10/01    | 7/10/03               |
|   | Line Impedance<br>Stabilization . . .               | Electro-Metrics  | ANS-25/2      | 2604                     | CAL<br>10/9/01     | 10/9/03               |

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|   | DEVICE                                | MFGR                           | MODEL       | SERNO      | CAL/CHAR<br>DATE | DUE DATE<br>or STATUS |
|---|---------------------------------------|--------------------------------|-------------|------------|------------------|-----------------------|
|   | Line Impedance<br>Stabilization . . . | Electro-Metrics                | EM-7820     | 2682       | CAL<br>3/16/01   | 3/16/03               |
|   | Termaline Wattmeter                   | Bird Electronic<br>Corporation | 611         | 16405      | CAL<br>5/25/99   | 5/25/01               |
|   | Termaline Wattmeter                   | Bird Electronic<br>Corporation | 6104        | 1926       | CAL<br>12/12/01  | 12/12/03              |
|   | Oscilloscope                          | Tektronix                      | 2230        | 300572     | CHAR<br>2/1/01   | 2/1/03                |
|   | Temperature Chamber                   | Tenney Engineering             | TTRC        | 11717-7    | CHAR<br>1/22/02  | 1/22/04               |
|   | AC Voltmeter                          | HP                             | 400FL       | 2213A14499 | CAL<br>10/9/01   | 10/9/03               |
|   | AC Voltmeter                          | HP                             | 400FL       | 2213A14261 | CHAR<br>10/15/01 | 10/15/03              |
|   | AC Voltmeter                          | HP                             | 400FL       | 2213A14728 | CHAR<br>10/15/01 | 10/15/03              |
| X | Digital Multimeter                    | Fluke                          | 77          | 35053830   | CHAR<br>1/8/02   | 1/8/04                |
|   | Digital Multimeter                    | Fluke                          | 77          | 43850817   | CHAR<br>1/8/02   | 1/8/04                |
|   | Digital Multimeter                    | HP                             | E2377A      | 2927J05849 | CHAR<br>1/8/02   | 1/8/04                |
|   | Multimeter                            | Fluke                          | FLUKE-77-3  | 79510405   | CAL<br>9/26/01   | 9/26/03               |
|   | Peak Power Meter                      | HP                             | 8900C       | 2131A00545 | CHAR<br>1/26/01  | 1/26/03               |
|   | Digital Thermometer                   | Fluke                          | 2166A       | 42032      | CAL<br>1/16/02   | 1/16/04               |
|   | Thermometer                           | Traulsen                       | SK-128      |            | CHAR<br>1/22/02  | 1/22/04               |
| X | Temp/Humidity gauge                   | EXTech                         | 44577F      | E000901    | CHAR<br>1/22/02  | 1/22/04               |
|   | Frequency Counter                     | HP                             | 5352B       | 2632A00165 | CAL<br>11/28/01  | 11/28/03              |
|   | Power Sensor                          | Agilent<br>Technologies        | 84811A      | 2551A02705 | CAL<br>1/26/01   | 1/26/03               |
|   | Service Monitor                       | IFR                            | FM/AM 500A  | 5182       | CAL<br>11/22/00  | 11/22/02              |
|   | Comm. Serv. Monitor                   | IFR                            | FM/AM 1200S | 6593       | CAL<br>5/12/02   | 5/12/04               |
|   | Signal Generator                      | HP                             | 8640B       | 2308A21464 | CAL<br>11/15/01  | 11/15/03              |
|   | Modulation Analyzer                   | HP                             | 8901A       | 3435A06868 | CAL<br>9/5/01    | 9/5/03                |
|   | Near Field Probe                      | HP                             | HP11940A    | 2650A02748 | CHAR<br>2/1/01   | 2/1/03                |

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|  | <b>DEVICE</b>        | <b>MFGR</b>         | <b>MODEL</b>         | <b>SERNO</b> | <b>CAL/CHAR<br/>DATE</b> | <b>DUE DATE<br/>or STATUS</b> |
|--|----------------------|---------------------|----------------------|--------------|--------------------------|-------------------------------|
|  | BandReject Filter    | Lorch Microwave     | 5BR4-2400/<br>60-N   | Z1           | CHAR<br>3/2/01           | 3/2/03                        |
|  | BandReject Filter    | Lorch<br>Microwave  | 6BR6-2442/<br>300-N  | Z1           | CHAR<br>3/2/01           | 3/2/03                        |
|  | BandReject Filter    | Lorch<br>Microwave  | 5BR4-10525/<br>900-S | Z1           | CHAR<br>3/2/01           | 3/2/03                        |
|  | High Pas Filter      | Microlab            | HA-10N               |              | CHAR<br>10/4/01          | 10/4/03                       |
|  | Audio Oscillator     | HP                  | 653A                 | 832-00260    | CHAR<br>3/1/01           | 3/1/03                        |
|  | Frequency Counter    | HP                  | 5382A                | 1620A03535   | CHAR<br>3/2/01           | 3/2/03                        |
|  | Frequency Counter    | HP                  | 5385A                | 3242A07460   | CHAR<br>12/11/01         | 12/11/03                      |
|  | Preamplifier         | HP                  | 8449B-H02            | 3008A00372   | CHAR<br>3/4/01           | 3/4/03                        |
|  | Amplifier            | HP                  | 11975A               | 2738A01969   | CHAR<br>3/1/01           | 3/1/03                        |
|  | Egg Timer            | Unk                 |                      |              | CHAR<br>8/31/01          | 8/31/03                       |
|  | Measuring Tape, 20M  | Kraftixx            | 0631-20              |              | CHAR<br>2/1/02           | 2/1/04                        |
|  | Measuring Tape, 7.5M | Kraftixx            | 7.5M PROFI           |              | 2/1/02                   | 2/1/04                        |
|  | Coaxial Cable #51    | Insulated Wire Inc. | NPS 2251-2880        | Timco #51    | CHAR<br>1/23/02          | 1/23/04                       |
|  | Coaxial Cable #64    | Semflex Inc.        | 60637                | Timco #64    | CHAR<br>1/24/02          | 1/24/04                       |
|  | Coaxial Cable #65    | General Cable Co.   | E9917 RG233/U        | Timco #65    | CHAR<br>1/23/02          | 1/23/04                       |
|  | Coaxial Cable #106   | Unknown             | Unknown              | Timco #106   | CHAR<br>1/23/02          | 1/23/04                       |

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## TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC. Shielded interface cables were used in all cases except for cables connecting to the telephone line and the power cords. A test program was run which simulated a normal data transmission on a network.

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-1992 using a 50uH LISN. Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed. The ambient temperature of the UUT was 74°F with a humidity of 44%.

BANDWIDTH 6.0dB: The measurements were made with the spectrum analyzer's resolution bandwidth(RBW)=100 kHz and the video bandwidth(VBW)=300 kHz and the span set as shown on plot.

POWER OUTPUT: Both base and handset have built-in/integral antennas. The RF power output was measured as Effective Radiated Power (ERP).

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-1992 using a HEWLETT PACKARD spectrum analyzer with a pre-selector. The bandwidth(RBW) of the spectrum analyzer was 100 kHz up to 1 GHz and 1.0MHz above 1 GHz with an appropriate sweep speed. The VBW above 1.0 GHz was = 1.0 MHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the UUT was 90°F with a humidity of 36%.

15.247(e): PROCESSING GAIN, This gain is supplied by the manufacturer of the UUT. (no longer a requirement)

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**NAME OF TEST:** POWER LINE CONDUCTED INTERFERENCE

**RULES PART NO.:** 15.107(a)

**REQUIREMENTS:** .15 - 30 MHz 250 uV OR 47.96 dBuV

**TEST PROCEDURE:** ANSI STANDARD C63.4-1992. The spectrum was scanned from .15 to 30 MHz.

**TEST DATA:**

THE HIGHEST EMISSION READ FOR LINE 1 ON HOOK WAS 60.3 uV @ 150 kHz.

THE HIGHEST EMISSION READ FOR LINE 2 ON HOOK WAS 60.3 uV @ 150 kHz.

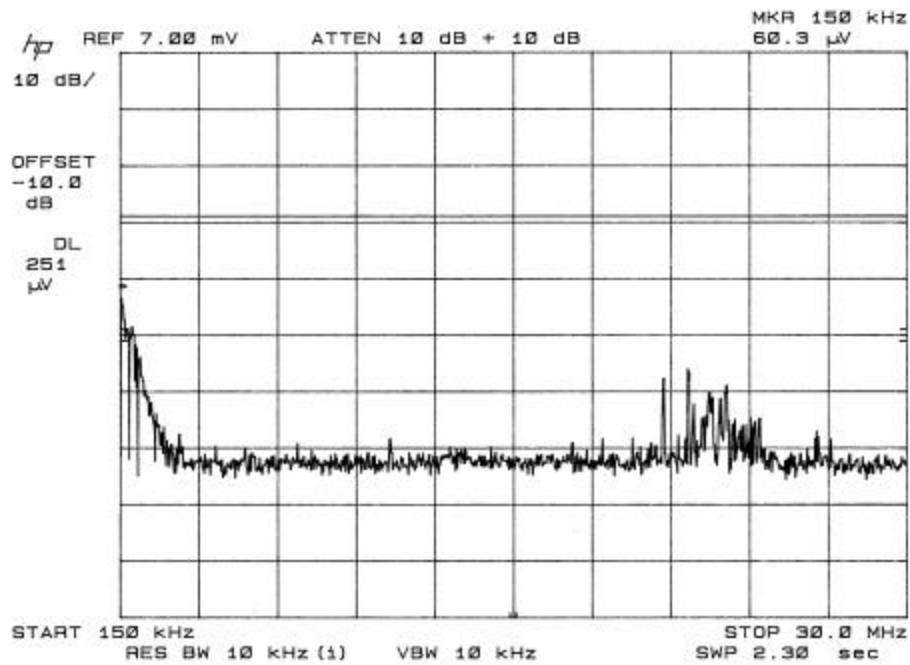
THE HIGHEST EMISSION READ FOR LINE 1 OFF HOOK WAS 56.9 uV @ 210 kHz.

THE HIGHEST EMISSION READ FOR LINE 2 OFF HOOK WAS 70.0 uV @ 150 kHz.

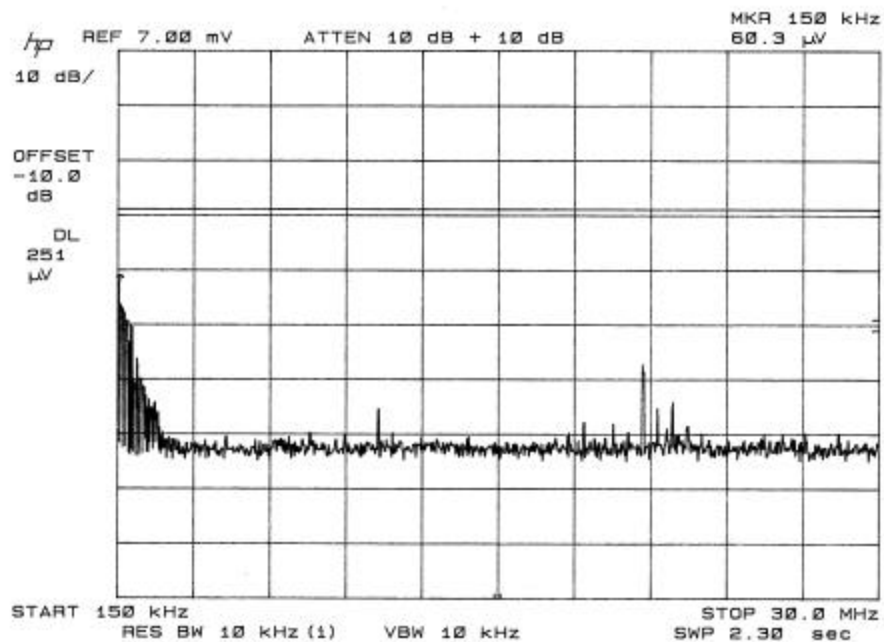
THE PLOTS ON THE FOLLOWING PAGES REPRESENT THE EMISSIONS TAKEN FOR THIS DEVICE.

**TEST RESULTS:** Both lines were observed. The measurements indicate that the unit DOES appear to meet the FCC requirements for this class of equipment.

# POWER LINE CONDUCTED PLOT - LINE 1 ON HOOK



# POWER LINE CONDUCTED PLOT - LINE 2 ON HOOK

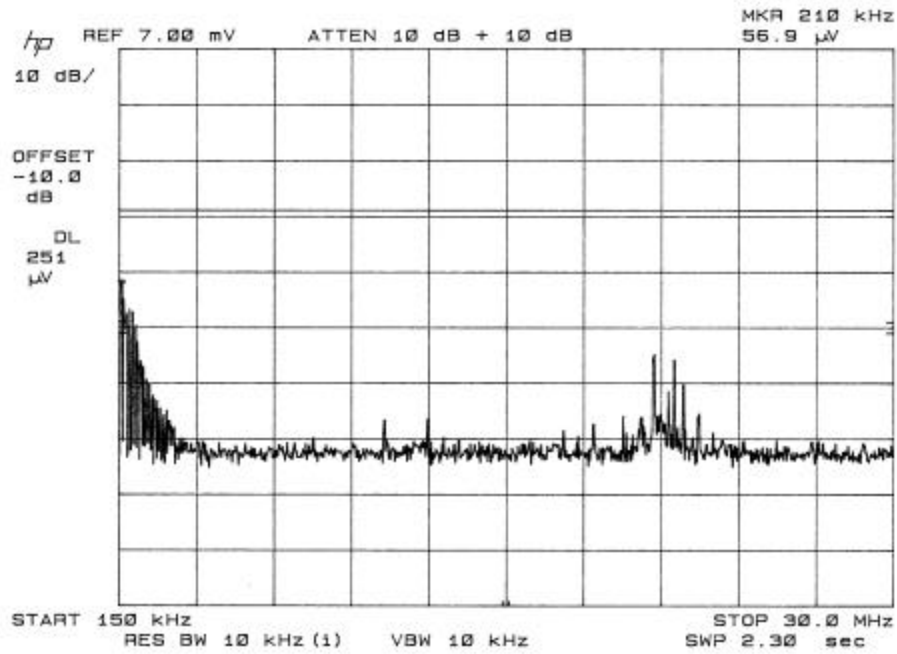


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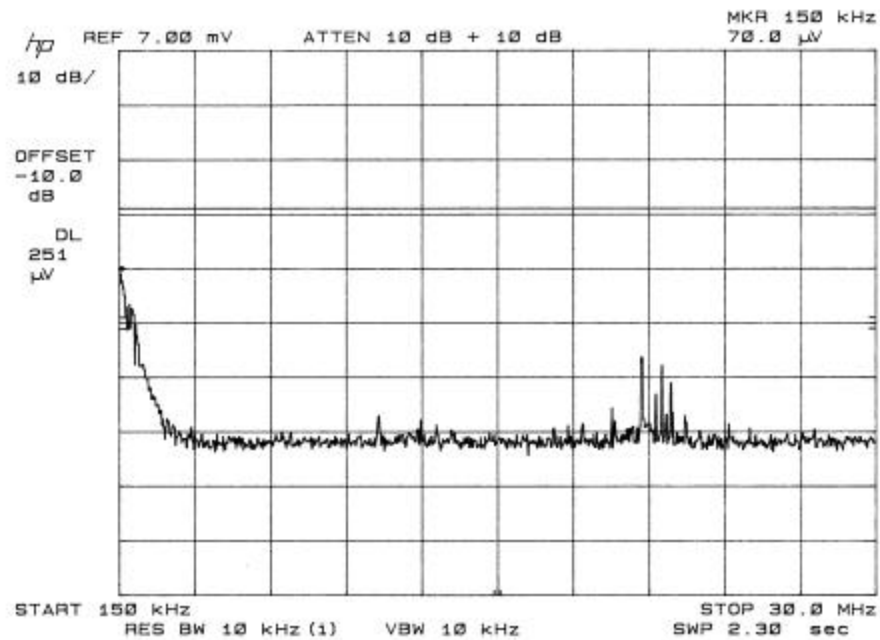
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# POWER LINE CONDUCTED PLOT - LINE 1 OFF HOOK



# POWER LINE CONDUCTED PLOT - LINE 2 OFF HOOK



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**APPLICANT:** ARKON TECHNOLOGIES INC.

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**NAME OF TEST:** 20.0dB BANDWIDTH

**RULES PART NO.:** 15.247(a)

**MEASUREMENT:** The 20dB bandwidth measured @ 645 kHz was  
-3.90 dB for both the base and pod.

**NAME OF TEST:** POWER OUTPUT

**RULES PART NO.:** 15.247(b) 1.0Watt or +30dBm

**MEASUREMENT:**

**POD - 0.082 Watts**

**BASE - 0.063 Watts**

15.247(c) Method of Measuring RF Power output: The Peak power Sensor was connected in place of the antenna. The calculation is on the following page, using the measured spectrum analyzer peak reading, shows agreement with the peak power sensor measurement

## RF POWER OUTPUT CONTINUED

$$\text{dBuV} := 116.5$$

$$\text{efs} := 10^{\frac{\text{dBuV}}{20}}$$

$$\text{efs} = 6.683 \times 10^5$$

$$\text{efsmV} := \text{efs} \cdot .001$$

$$\text{efsmV} = 668.344$$

$$\text{Po} := \frac{(3 \cdot \text{efsmV})^2}{49.2}$$

$$\text{Po} = 8.171 \times 10^4$$

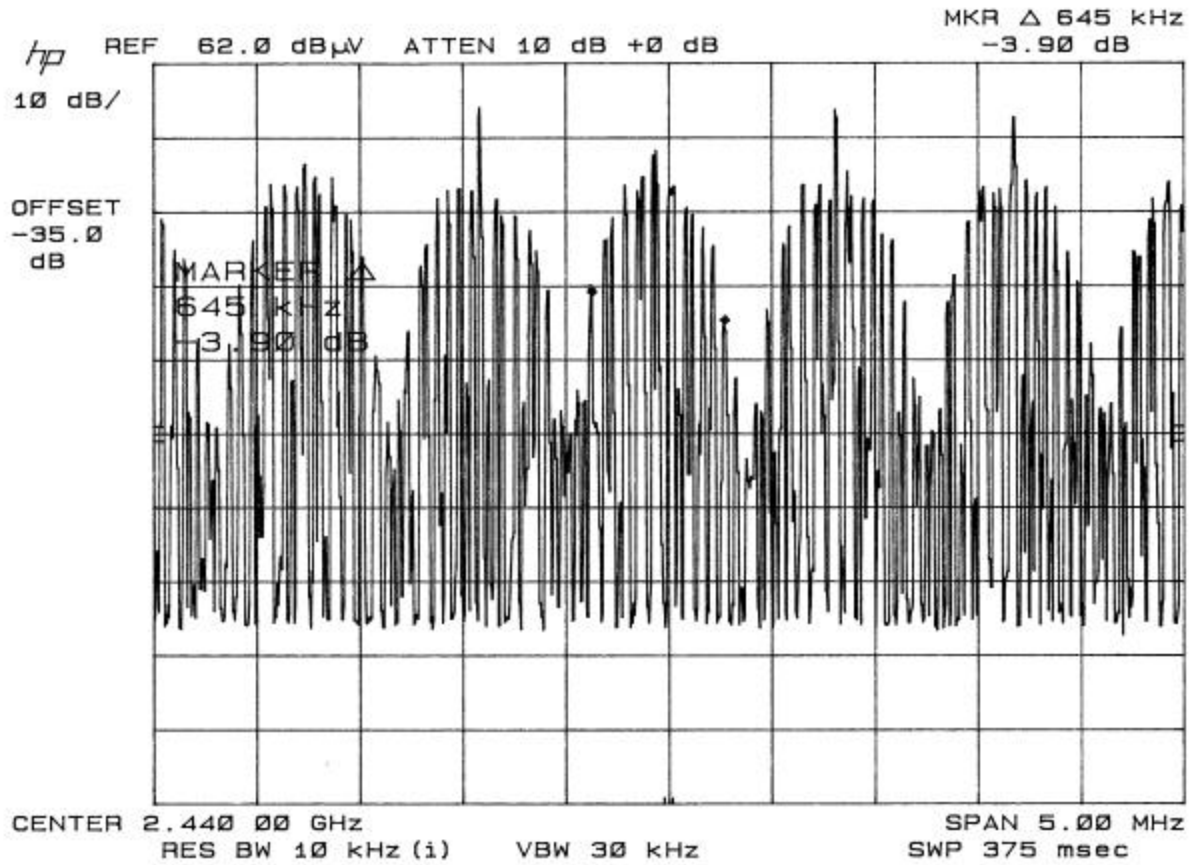
$$\text{PoW} := \text{Po} \cdot .000001$$

$$\text{PoW} = 0.082 \quad \text{Watts}$$

$$\text{PomW} := \text{Po} \cdot .001$$

$$\text{PomW} = 81.71 \quad \text{mWatts}$$

20 dB BANDWIDTH - BASE

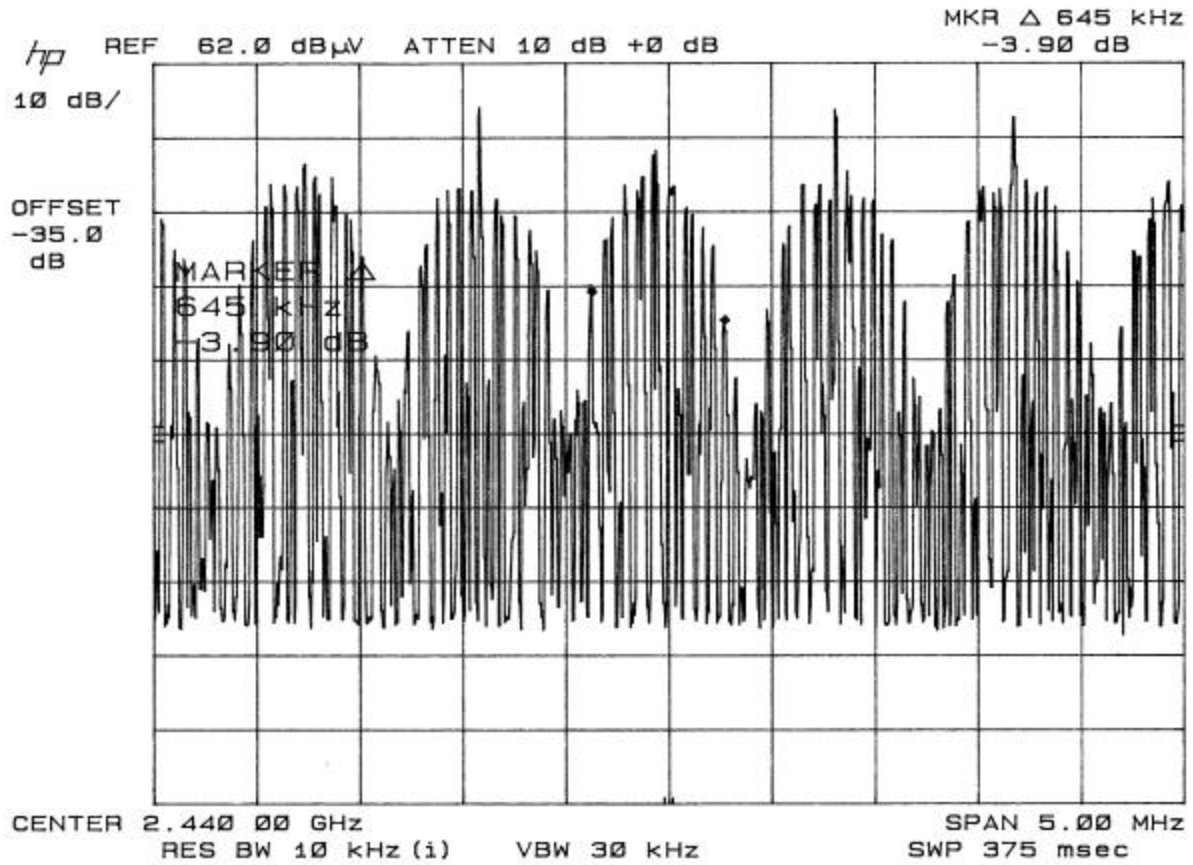


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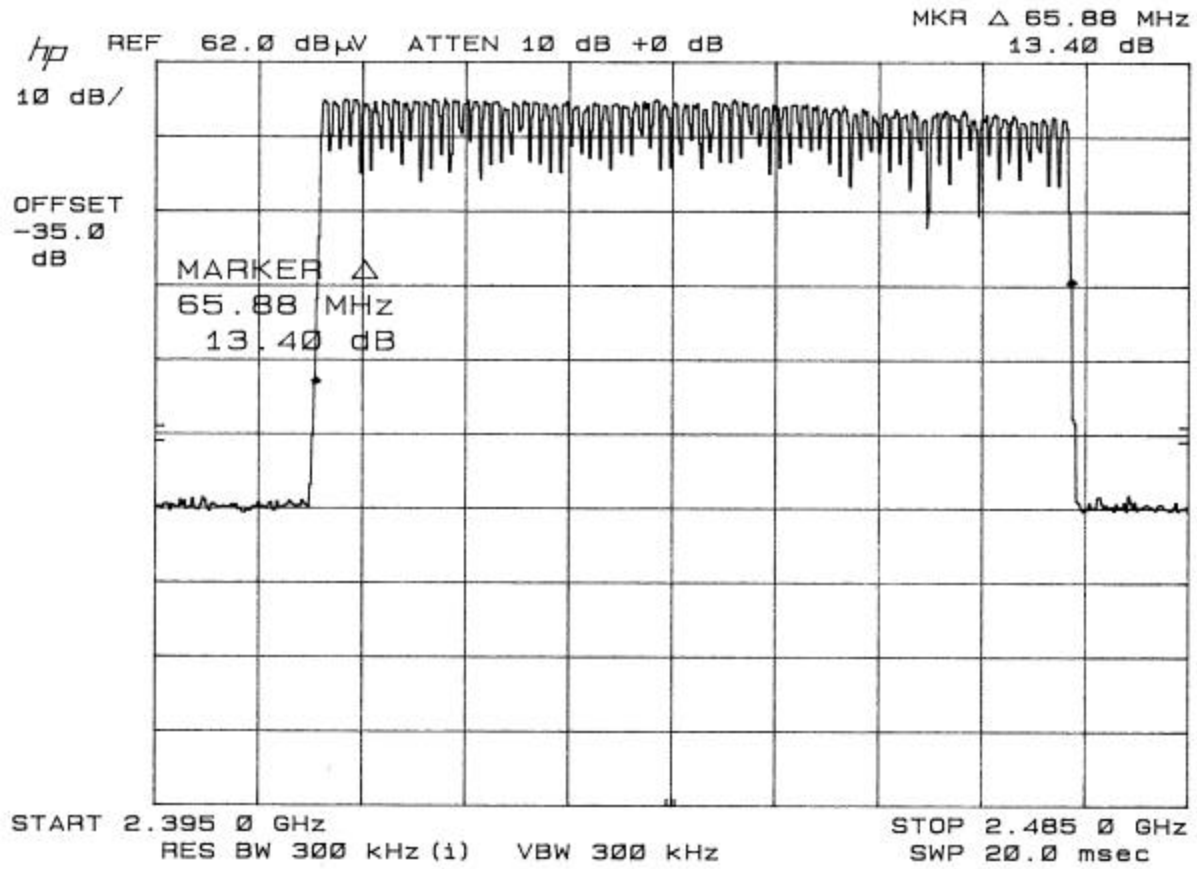
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20 dB BANDWIDTH - POD



# OF CHANNEL PLOT BASE

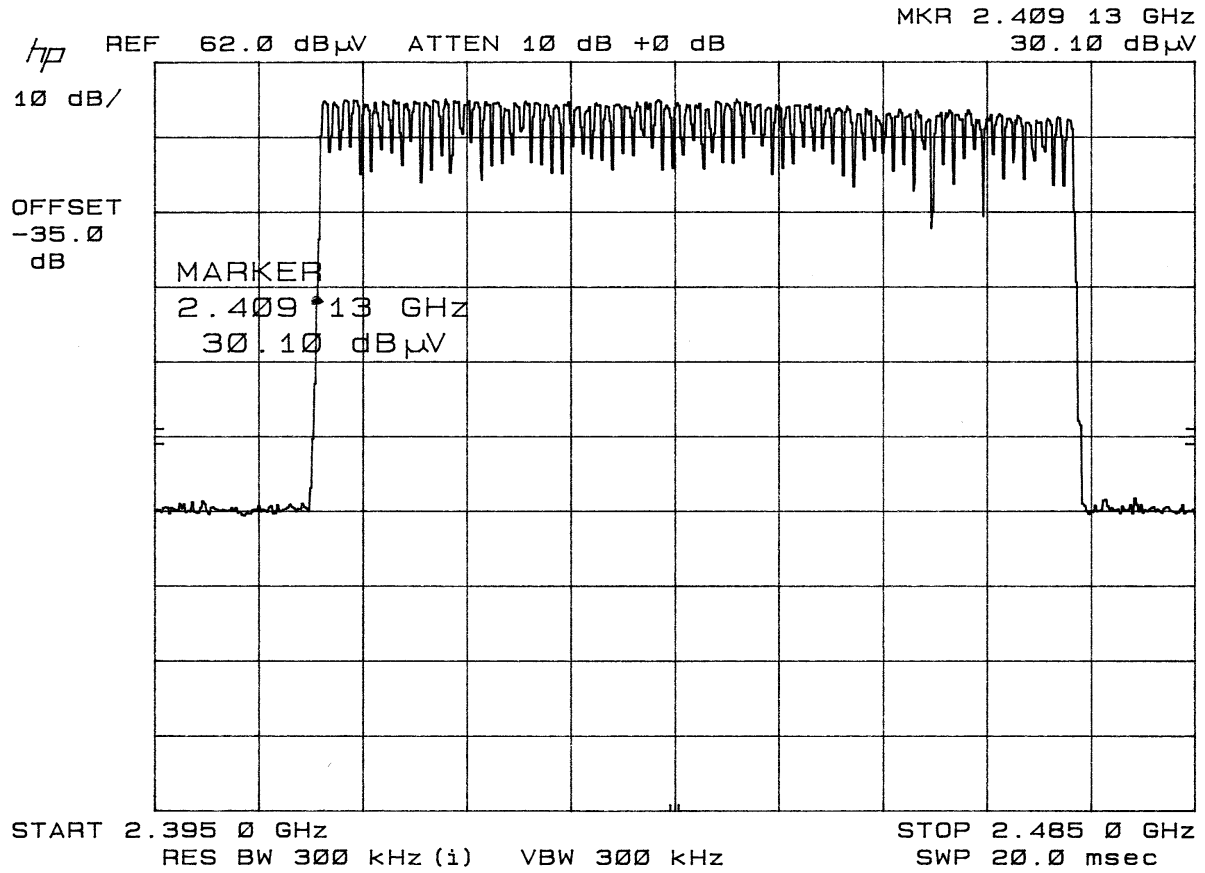


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# OF CHANNEL PLOT POD



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15.247(c), 15.205 & 15.209(b) Field strength of spurious emissions:

**REQUIREMENTS:**

|                                                                                      |                                                         |                                                                                                       |
|--------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| FIELD STRENGTH<br>of Fundamental:<br>902-928MHz<br>2.4-2.4835GHz<br>127.38dBuV/m @3m | FIELD STRENGTH<br>of Harmonics<br><br><br>54 dBuV/m @3m | S15.209<br>30 - 88 MHz 40 dBuV/m @3M<br>88 -216 MHz 43.5<br>216 -960 MHz 46<br>ABOVE 960 MHz 54dBuV/m |
|--------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------|

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REQUIREMENTS: Emissions that fall in the restricted bands (15.205) must be less than 54dBuV/m otherwise the spurious and harmonics must be attenuated by at least 20dB.

**TEST DATA (ALL PEAK MEASUREMENTS):**

**BASE:**

| Tuned<br>Frequency<br>MHz | Emission<br>Frequency<br>MHz | Meter<br>Reading<br>dBuv | Ant.<br>Polarity | Coax<br>Loss<br>dB | Correction<br>Factor<br>dB | Pulsed<br>CFactor<br>dB | Field<br>Strength<br>dBuv/m | Margin<br>dB |
|---------------------------|------------------------------|--------------------------|------------------|--------------------|----------------------------|-------------------------|-----------------------------|--------------|
| 2441.50                   | 2441.50                      | 78.9                     | H                | 3.35               | 30.75                      | 0.00                    | 113.00                      | 14.38        |
| 2441.50                   | 2441.50                      | 81.3                     | V                | 3.35               | 30.75                      | 0.00                    | 115.40                      | 11.98        |
| 2441.50                   | 4883.00                      | 12.9                     | H                | 6.04               | 34.97                      | -20.00                  | 33.91                       | 20.09        |
| 2441.50                   | 4883.00                      | 16.2                     | V                | 6.04               | 34.97                      | -20.00                  | 37.21                       | 16.79        |

**POD:**

| Tuned<br>Frequency<br>MHz | Emission<br>Frequency<br>MHz | Meter<br>Reading<br>dBuv | Ant.<br>Polarity | Coax<br>Loss<br>dB | Correction<br>Factor<br>dB | Pulsed<br>CFactor<br>dB | Field<br>Strength<br>dBuv/m | Margin<br>dB |
|---------------------------|------------------------------|--------------------------|------------------|--------------------|----------------------------|-------------------------|-----------------------------|--------------|
| 2,440.5                   | 2,441.50                     | 79.4                     | H                | 3.35               | 30.75                      | 0.00                    | 113.50                      | 13.88        |
| 2,440.5                   | 2,441.50                     | 82.4                     | V                | 3.35               | 30.75                      | 0.00                    | 116.50                      | 10.88        |
| 2,440.5                   | 4,883.00                     | 14.2                     | H                | 6.04               | 34.97                      | -20.00                  | 35.21                       | 18.79        |
| 2,440.5                   | 4,883.00                     | 15.8                     | V                | 6.04               | 34.97                      | -20.00                  | 36.81                       | 17.19        |

The unit was scanned at 3 places in the band and only the worst-case scenario is shown.

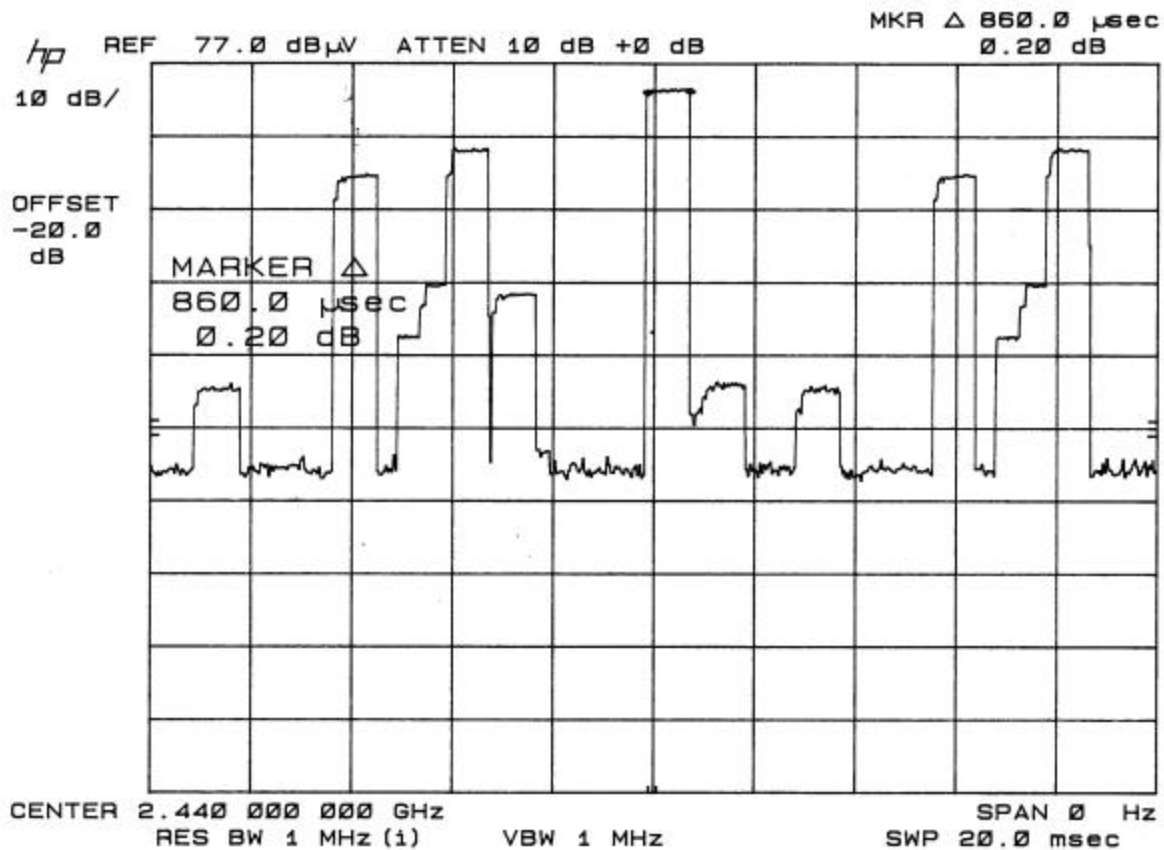
METHOD OF MEASUREMENT: The procedure used was ANSI STANDARD C63.4-1992 & the FCC/OET Guidance on Measurements for Frequency Hopping - Public Notice 54797 Dated July 12, 1995. Measurements were made at the open field test site of TIMCO ENGINEERING INC. located at 849 N.W. State Road 45, Newberry, FL 32669.

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# DWELL TIME PLOT BASE



## CALCULATION OF DUTY CYCLE:

The period of the pulse train is determined by observing it on an oscilloscope or a spectrum analyzer with zero(0) frequency span. A plot is then made of the pulse train with a sweep time of 100 milliseconds. This sweep determines the duration of the pulse train, which in this case is 860 microseconds. For this EUT, only one pulse of 860 microseconds was observed in the 100 millisecond time period. The duty cycle was calculated to be: 41 dB. A maximum allowed value is 20 dB.

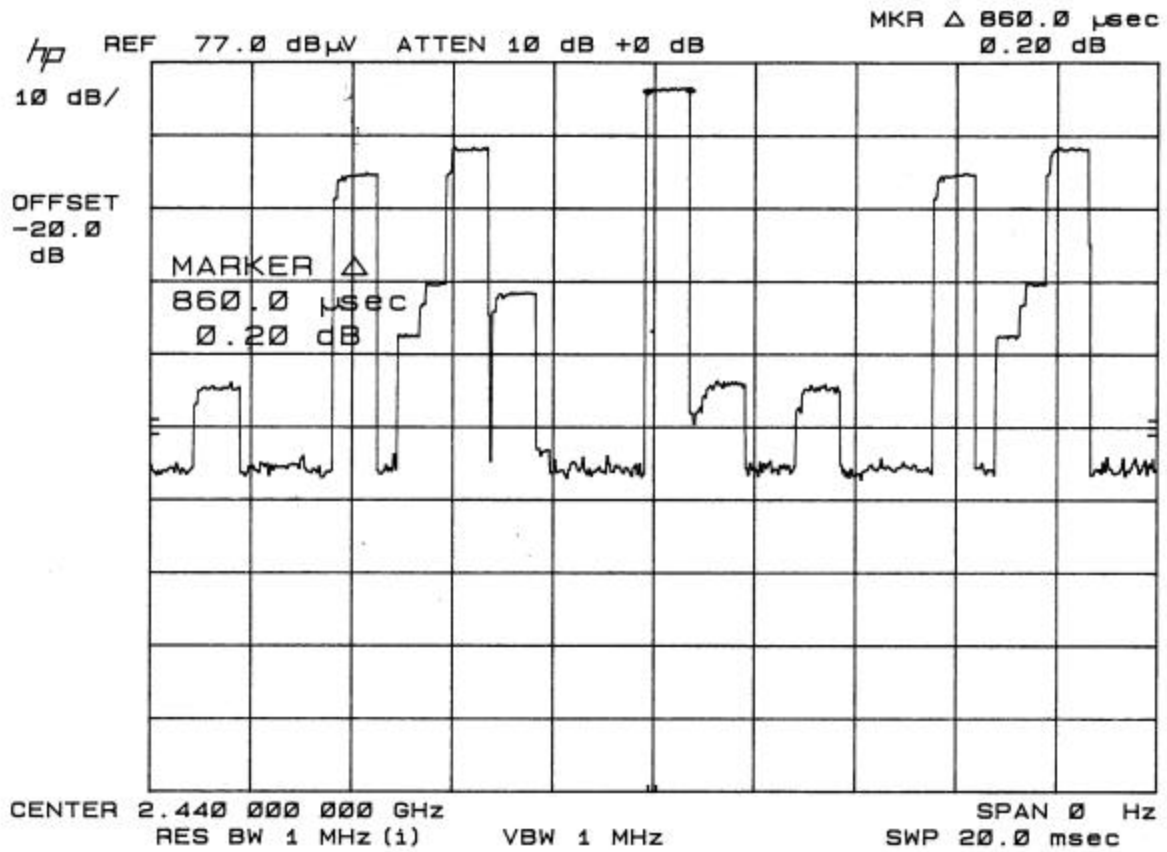
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# DWELL TIME PLOT POD



**APPLICANT:** ARKON TECHNOLOGIES INC.  
**FCC ID:** PBWFH24R16  
**NAME OF TEST:** RADIATED SPURIOUS EMISSIONS INTO ADJACENT RESTRICTED BAND  
**REQUIREMENTS:** Emissions that fall in the restricted bands (15.205). These emissions must be less than or equal to 500 uV/m (54 dBuV/m).  
**TEST PROCEDURE:** An in band field strength measurement of the fundamental Emission using the RBW and detector function required by C63.4-2000 and FCC Rules. The procedure was repeated with an average detector and a plot made. The calculated field strength in the adjacent restricted band is presented below.

**Base:**

**Frequency: 2400.02 MHz**  
- 1.40 dBuV  
+28.89 ACF  
+ 3.32 Coax Loss  
-20.00 Pulsed CFactor  
+10.81 dBuV

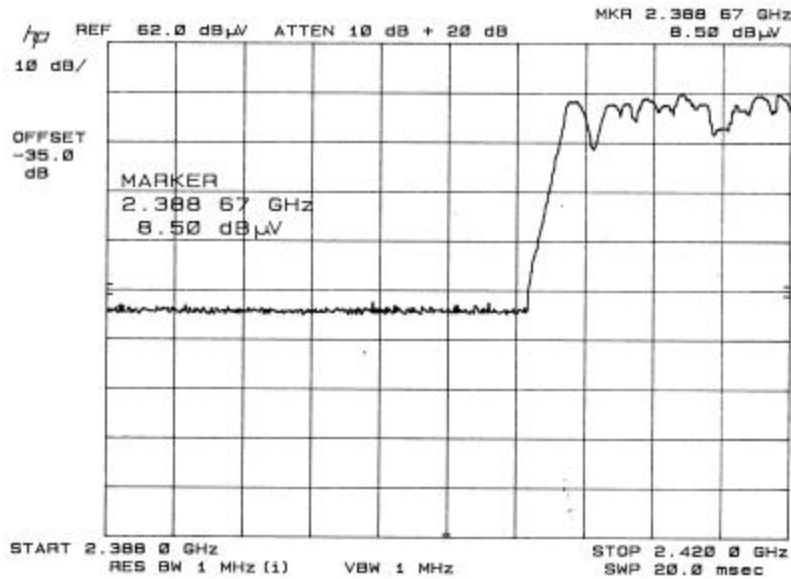
**Frequency: 2483.51 MHz**  
- 0.90 dBuV  
+28.97 ACF  
+ 3.32 Coax Loss  
-20.00 Pulsed CFactor  
+11.39 dBuV

**POD:**

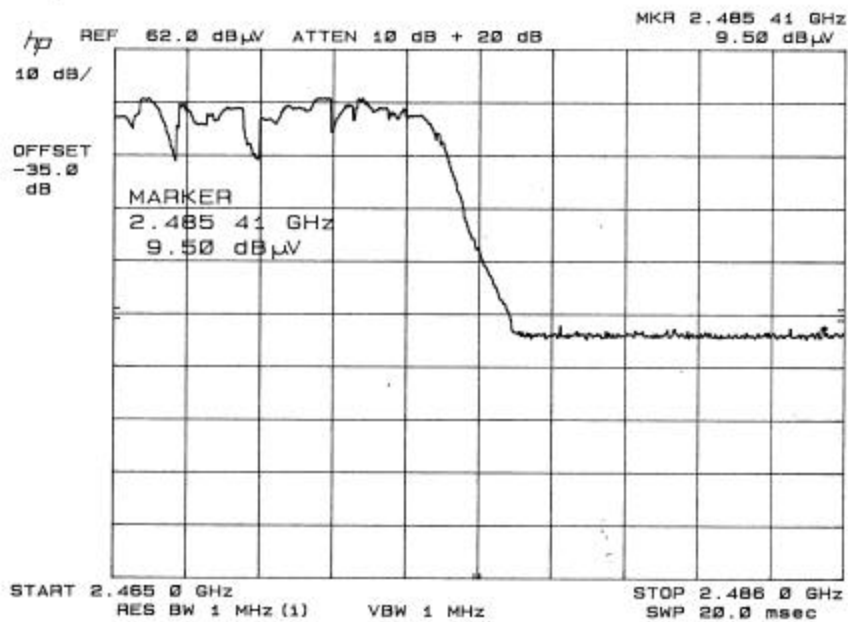
**Frequency: 2388.87 MHz**  
+ 8.50 dBuV  
+28.88 ACF  
+ 3.31 Coax Loss  
-20.00 Pulsed CFactor  
+20.69 dBuV

**Frequency: 2483.50 MHz**  
+ 9.50 dBuV  
+28.97 ACF  
+ 3.39 Coax Loss  
-20.00 Pulsed CFactor  
+21.86 dBuV

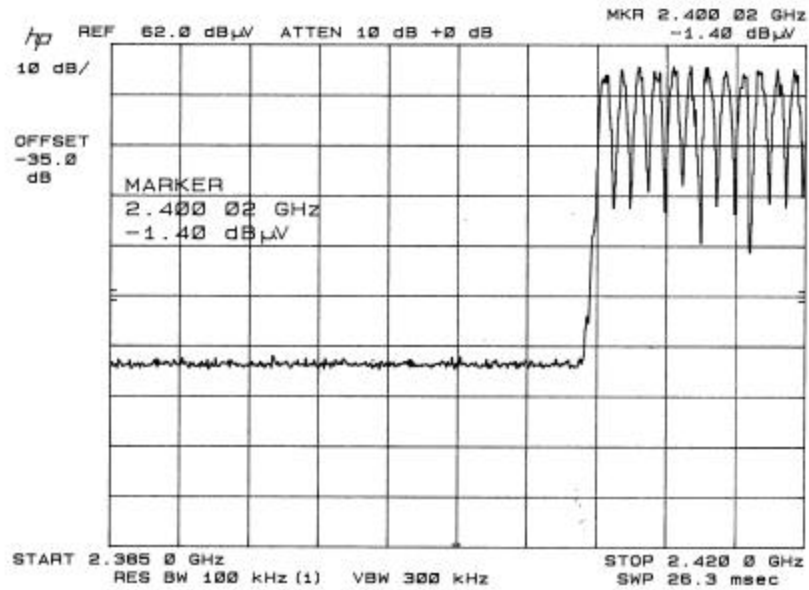
# BANDEDGE PLOT - POD



# BANDEDGE PLOT - POD



# BANDEDGE PLOT - BASE



# BANDEDGE PLOT - BASE

