## 2. RADIATED FIELD STRENGTH

DATA SHEET (FCC Measurement Procedure MP-5) FCC ID: APYDMR0121

Model R-410C Magnetron: 2M253J(L), mfd by Toshiba Date: November 12-16, 1998

|   | Frequency (MHz) |      | Place of the load | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>Data<br>(dBuV @:3m) |         | Radiated<br>Field Strength<br>(uV/m @:300m) |         |
|---|-----------------|------|-------------------|---------------------------|-----------------------|--------------------------------|---------|---|---------|
|   | , ,             | , ,  |                   | , ,                       | , ,                   | Vertical                       | Horizen | Vertical                                    | Horizen |
| Fundamental   | 2457            | 1500 | Center            | 20.70                     | 1.03                  | 82                             | 83      | 975.46                                      | 1094.48 |
| 2nd Harmonic  | 4905            | 1050 | Center            | 20.50                     | 1.58                  | 37                             | 34      | 9.00  | 6.37    |
|   | 4925            | 1050 | R.F.Corner        | 20.50                     | 1.58                  | 33                             | 28      | 5.68  | 3.19    |
|   | 4905            | 450  | Center            | 20.50                     | 1.58                  | 34                             | 34      | 6.37  | 6.37    |
|   | 4897            | 450  | R.F.Corner        | 20.50                     | 1.58                  | 35                             | 28      | 7.15  | 3.19    |
| 3rd Harmonic  | 7363            | 1050 | Center            | 19.20                     | 2.10                  | 33                             | 32      | 5.19  | 4.62    |
|   | 7325            | 1050 | R.F.Corner        | 19.20                     | 2.10                  | 32                             | 34      | 4.62  | 5.82    |
|   | 7369            | 450  | Center            | 19.20                     | 2.10                  | 32                             | 32      | 4.62  | 4.62    |
|   | 7342            | 450  | R.F.Corner        | 19.20                     | 2.10                  | 34                             | 35      | 5.82  | 6.53    |
| 4th Harmonic  | 9816            | 1050 | Center            | 20.00                     | 2.62                  | 44                             | 45      | 21.43                                       | 24.04   |
| Sprious F<1000, 4575 <f< td=""><td>14717</td><td>1050</td><td>Center</td><td>19.20</td><td>3.56</td><td>36</td><td>38</td><td>8.67</td><td>10.91</td></f<>  | 14717           | 1050 | Center            | 19.20                     | 3.56                  | 36                             | 38      | 8.67  | 10.91   |
|   | 17169           | 1050 | Center            | 18.60                     | 4.20                  | 31                             | 38      | 4.90  | 10.97   |
| Spurious 1000 <f<4575< td=""><td>2378</td><td>1050</td><td>Center</td><td>20.70</td><td>1.00</td><td>25</td><td>24</td><td>1.33</td><td>1.19</td></f<4575<> | 2378            | 1050 | Center            | 20.70                     | 1.00                  | 25                             | 24      | 1.33  | 1.19    |
|   | 1348            | 1050 | Center            | 21.80                     | 0.80                  | 29                             | 27      | 1.06  | 0.84    |
| Emission Sideband   | 2400            | 1500 | Center            | 20.70                     | 1.01                  | 34                             | 36      | 3.79  | 4.77    |
|   | 2415            | 1500 | Center            | 20.70                     | 1.02                  | 38                             | 40      | 6.05  | 7.61    |
|   | 2485            | 1500 | Center            | 20.70                     | 1.03                  | 23                             | 24      | 1.11  | 1.24    |
|   | 2500            | 1500 | Center            | 20.80                     | 1.04                  | 28                             | 26      | 2.00  | 1.59    |

Emission observed from 100 MHz through 18 GHz by spectrum analyzer. No significant emission was detected except for above data. Microwave Leakage at 5 cm on fundamental : 0.07 mW/cm

Since the RF output power rating is more than 1000 W, the load for measurment was increased 50%.