

Date: 22 OCT 2000  
File: 00102201.xls

\$2.1053 Field Strength  
Spurious Emissions Measurements  
Standard: FCC Title CFR 47, §90.217(b)  
Device Tested: GE Medical Systems Model 340

PRESCAN or FINAL: FINAL

Distance: 3m

Fundamental Frequency (MHz): 460.625 Level: 95.7 dBuV/m Vertical  
96.8 dBuV/m Horizontal

Measured Level from 30 - 5000 MHz

Meas #	Freq (MHz)	Peak	Quasi-Peak	Average	Quasi-Peak Limit (30dB below Fundamental)	Quasi-Peak Peak Δ	Antenna + Cable Correction Factor (included in measured levels)	Result	Polarization	Angle	Comment
1	225.597	54.5	53.9	53.3	65.7	-11.8	14.0	Complied	Vertical	200	
2	225.597	43.2	42.3	41.5	66.8	-24.5	14.0	Complied	Horizontal	200	
3	239.409	48.6	47.7	46.9	66.8	-19.1	15.2	Complied	Horizontal	200	
4	239.414	43.5	42.2	41.2	65.7	-23.5	15.2	Complied	Vertical	200	
5	307.063	27.5	25.2	23.6	65.7	-40.5	17.7	Complied	Vertical	200	
6	479.379	31.4	28.0	25.4	65.7	-37.7	23.4	Complied	Vertical	200	
7	921.311	40.4	37.8	36.4	65.7	-27.9	29.8	Complied	Vertical	200	
8	921.327	49.3	48.3	48.1	66.8	-18.5	29.8	Complied	Horizontal	200	
9	1381.983	54.6	53.8	53.6	65.7	-11.9	35.6	Complied	Vertical	200	
10	1381.986	49.6	48.4	48.0	66.8	-18.4	35.6	Complied	Horizontal	200	
11	2302.960	49.0	46.9	46.3	65.7	-18.8	29.5	Complied	Vertical	200	
12	2303.300	50.8	50.2	50.0	66.8	-16.6	29.5	Complied	Horizontal	200	
13	2763.970	60.1	59.6	58.9	65.7	-6.1	31.2	Complied	Vertical	200	
14	2764.000	56.9	56.6	56.1	66.8	-10.2	31.2	Complied	Horizontal	200	
15	3224.600	55.7	55.1	54.3	65.7	-10.7	31.7	Complied	Vertical	200	
16	3224.600	54.7	54.3	54.0	66.8	-12.5	31.7	Complied	Horizontal	200	
17	3684.990	66.1	65.7	65.9	65.7	0.0	33.1	Complied	Vertical	200	
18	3685.300	56.9	56.7	56.5	66.8	-10.2	33.1	Complied	Horizontal	200	
19	4145.970	54.9	54.4	53.6	65.7	-11.4	34.0	Complied	Vertical	200	
20	4606.650	54.9	54.2	53.5	65.7	-11.5	34.0	Complied	Vertical	200	
21	4606.670	48.9	48.6	48.4	66.8	-18.2	34.0	Complied	Horizontal	200	
Tested by: Mark Ryan											
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009											



**MEAS TYPE:**  
 Radiated Prescan  
 Radiated Final  
 Conducted  
 Disturbance Power  
 Other

**ANTENNA/COUPLER:**  
 9124 Bicon  
 3146 Log Per  
 3106 Horn  
 3109 Bicon  
 3115 Horn  
 CBL6112B Bilog  
 CBL6140 X-Wing  
 MDS-21 Clamp  
 NSLK 8126 LISN  
 NNB-4/63TL LISN  
 NNB-4/200X LISN

**POLARIZATION:**  
 Horizontal - *Bottom*  
 Vertical - *Top*  
 NA

**DISTANCE:**  
 3 Meter  
 10 Meter  
 Meter  
 NA

**LOCATION:**  
 OATS  
 Semi-Anechoic  
 Shielded Room  
 Factory Floor  
 Other

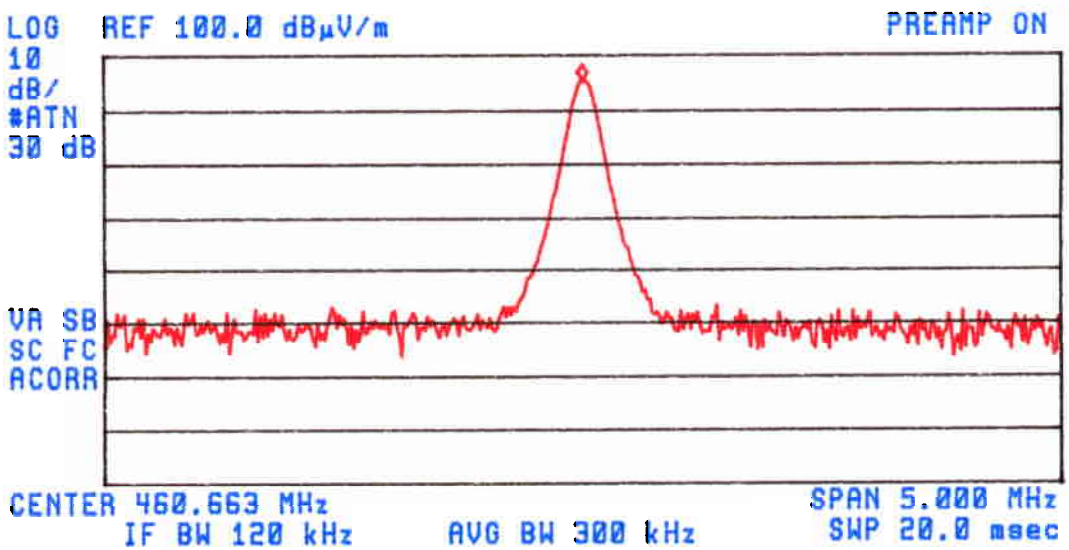


PL0783

**NOTES:**  
 FIELD STRENGTH OF SPURIOUS EMISSIONS 2.10 53, 90.217(6)  
 HORIZONTAL AND VERTICAL REFERENCE LEVELS

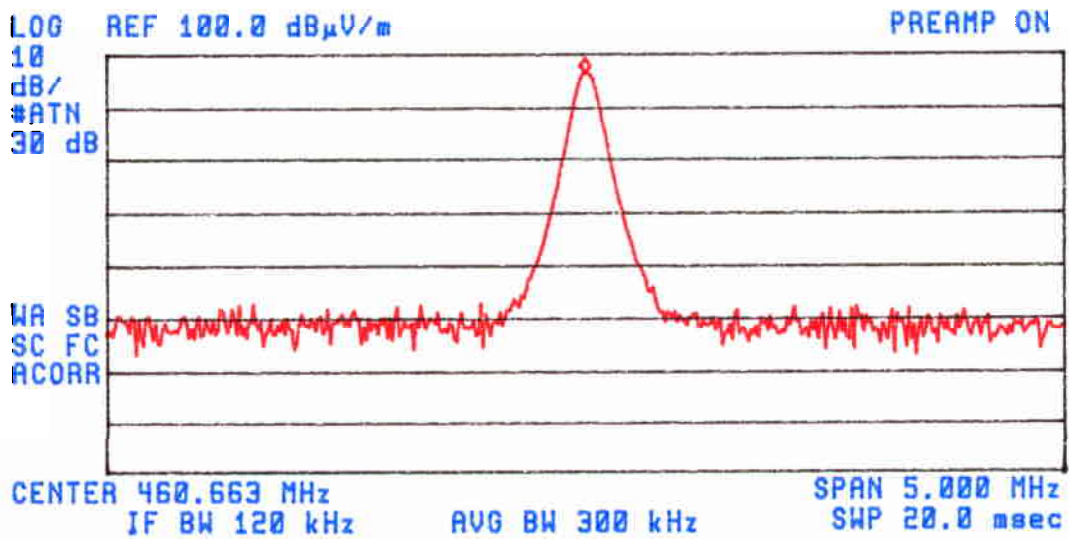
14:03:40 OCT 22, 2000  
 GE MEDICAL FUNDAMENTAL PEAK - OATS - VERTICAL  
**MARKER**  
 460.663 MHz  
 95.48 dBμV/m

FREQ	460.7 MHz
PEAK	95.8 dBμV/m
QP	95.7 dBμV/m
AVG	95.7 dBμV/m



14:07:09 OCT 22, 2000  
 GE MEDICAL FUNDAMENTAL PEAK - OATS - HORIZONTAL  
**MARKER**  
 460.663 MHz  
 96.45 dBμV/m

FREQ	460.7 MHz
PEAK	97.0 dBμV/m
QP	96.8 dBμV/m
AVG	96.8 dBμV/m



# TUV Rheinland of North America, Inc.

## North American Headquarters

Web: <http://www.tuv.com> E-mail: [info-new@tuv.com](mailto:info-new@tuv.com)

### NOTES:

SPARIOUS EMISSIONS: 2.1053, 90.217 (b)  
TYPICAL MEASUREMENTS (OATS)

- MEAS TYPE:**
- Radiated Prescan
  - Radiated Final
  - Conducted
  - Disturbance Power
  - Other

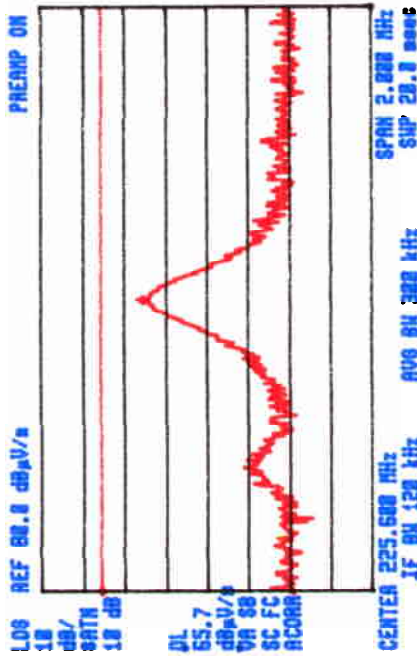
- ANTENNA/COUPLER:**
- 9124 Bicon
  - 3146 Log Per
  - 3106 Horn
  - 3109 Bicon
  - 3115 Horn
  - CBL6112B Bilog
  - CBL6140 X-Wing
  - MDS-21 Clamp
  - NSLK 8126 LISN
  - NNB-4/63TL LISN
  - NNB-4/200X LISN

- POLARIZATION:**
- Horizontal
  - Vertical
  - NA

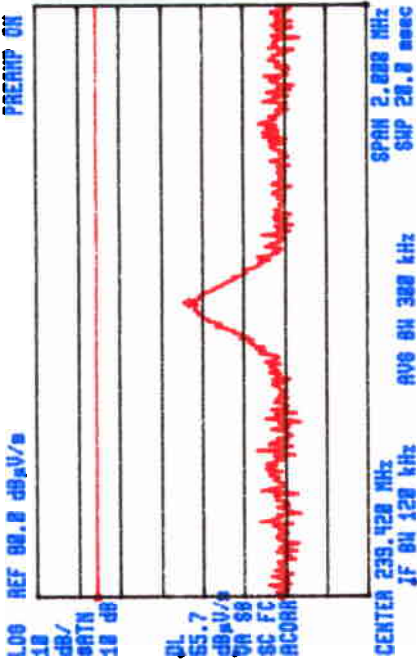
- DISTANCE:**
- 3 Meter
  - 10 Meter
  - Meter
  - NA

- LOCATION:**
- OATS
  - Semi-Anechoic
  - Shielded Room
  - Factory Floor
  - Other

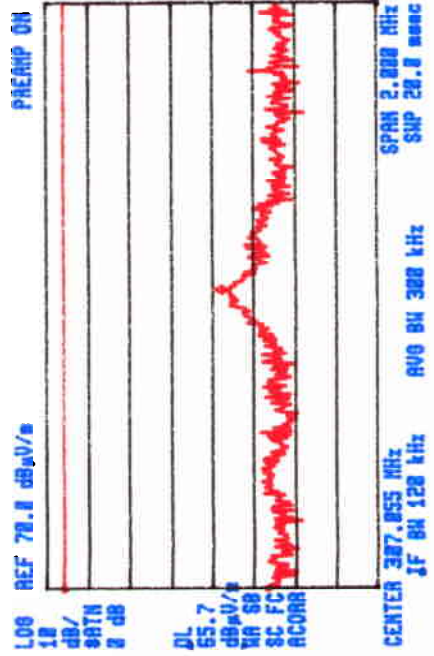
15:52:00 OCT 22, 2000  
9E MEDICAL MODEL 348 TRANSMITTER RADIATED EMISSIONS  
DISPLAY LINE  
55.7 dBµV/m



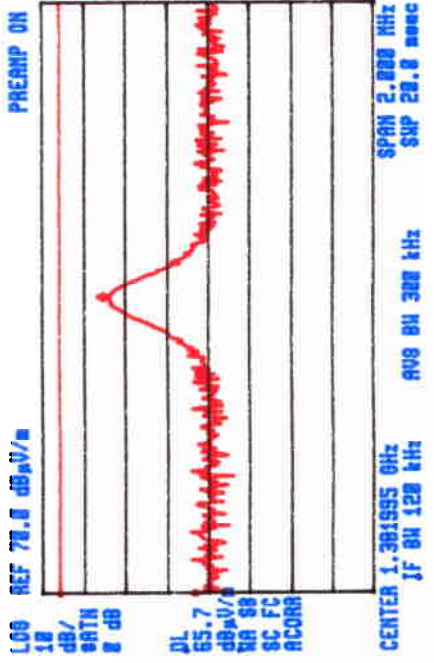
15:54:48 OCT 22, 2000  
9E MEDICAL MODEL 348 TRANSMITTER RADIATED EMISSIONS  
DISPLAY LINE  
55.7 dBµV/m



15:58:09 OCT 22, 2000  
9E MEDICAL MODEL 348 TRANSMITTER RADIATED EMISSIONS  
DISPLAY LINE  
55.7 dBµV/m



15:02:33 OCT 22, 2000  
9E MEDICAL MODEL 348 TRANSMITTER RADIATED EMISSIONS  
DISPLAY LINE  
55.7 dBµV/m





MEAS TYPE:

- Radiated Prescan
- Radiated Final
- Conducted
- Disturbance Power
- Other

ANTENNA/COUPLER:

- 9124 Bicon
- 3146 Log Per
- 3106 Horn
- 3109 Bicon
- 3115 Horn
- CBL6112B Bilog
- CBL6140 X-Wing
- MDS-21 Clamp
- NSLK 8126 LISN
- NNB-4/63TL LISN
- NNB-4/200X LISN

POLARIZATION:

- Horizontal - RED
- Vertical - BLUE
- NA

DISTANCE:

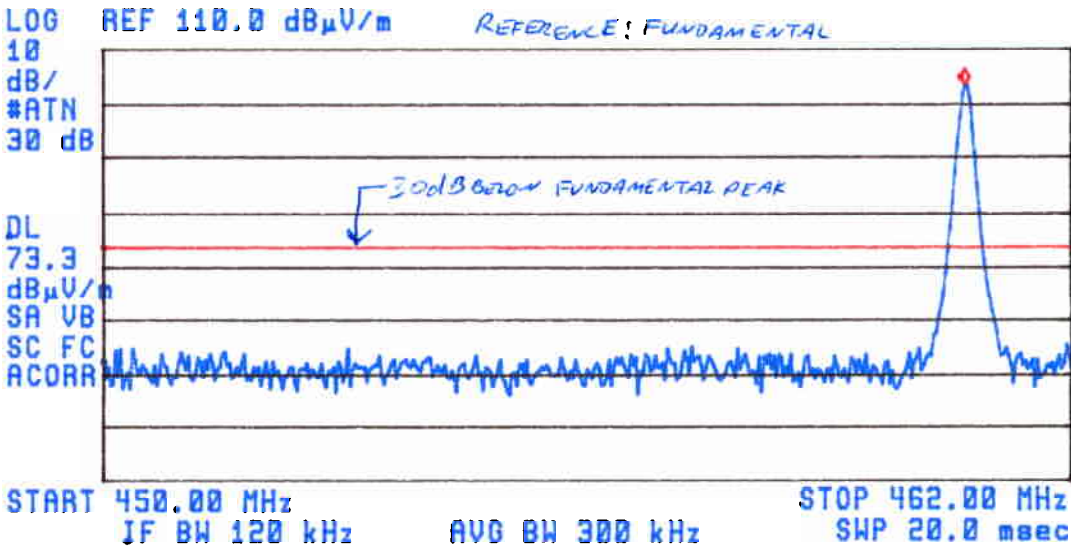
- 3 Meter
- 10 Meter
- Meter
- NA

LOCATION:

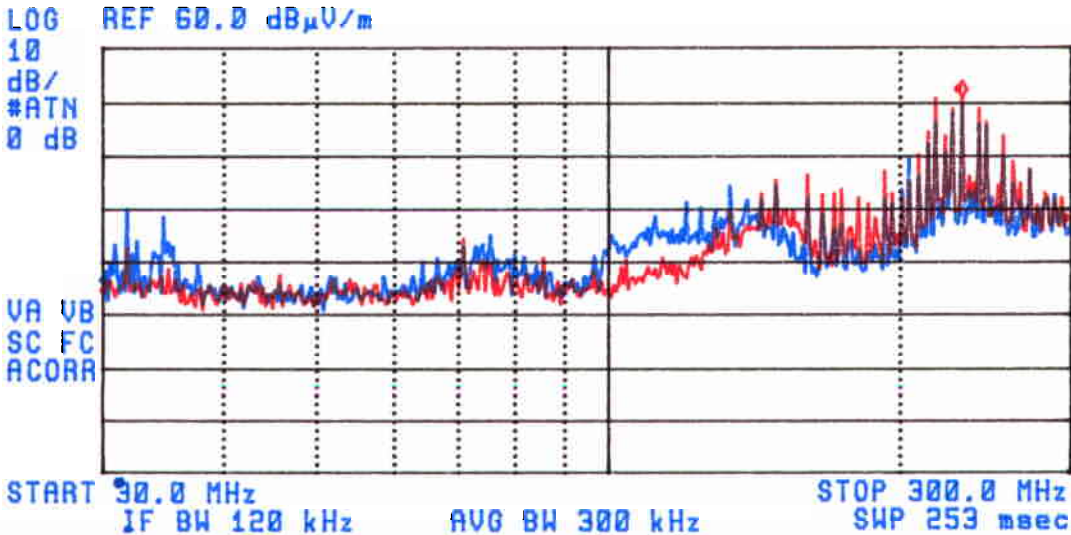
- OATS
- Semi-Anechoic
- Shielded Room
- Factory Floor
- Other

NOTES:

14:49:07 OCT 20, 2000  
 GE MEDICAL MODEL 340 TRANSMITTER RADIATED EMISSIONS  
 DISPLAY LINE 73.3 dB $\mu$ V/m  
 ACTV DET: PEAK  
 MEAS DET: PEAK QP AVG  
 MKR 460.68 MHz  
 103.23 dB $\mu$ V/m



14:40:05 OCT 20, 2000  
 GE MEDICAL MODEL 340 TRANSMITTER RADIATED EMISSIONS  
 MARKER 240.3 MHz  
 50.98 dB $\mu$ V/m  
 ACTV DET: PEAK  
 MEAS DET: PEAK QP AVG  
 MKR 240.3 MHz  
 50.98 dB $\mu$ V/m





PL07EEI

**MEAS TYPE:**

- Radiated Prescan
- Radiated Final
- Conducted
- Disturbance Power
- Other

**ANTENNA/COUPLER:**

- 9124 Bicon
- 3146 Log Per
- 3106 Horn
- 3109 Bicon
- 3115 Horn
- CBL6112B Bilog
- CBL6140 X-Wing
- MDS-21 Clamp
- NSLK 8126 LISN
- NNB-4/63TL LISN
- NNB-4/200X LISN

**POLARIZATION:**

- Horizontal - *RED*
- Vertical - *BLUE*
- NA

**DISTANCE:**

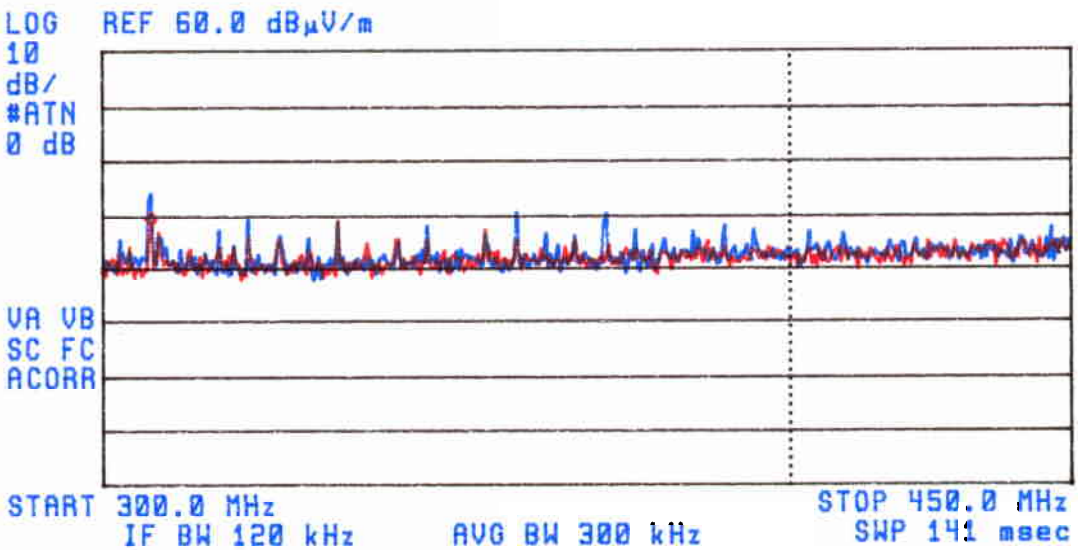
- 3 Meter
- 10 Meter
- Meter
- NA

**LOCATION:**

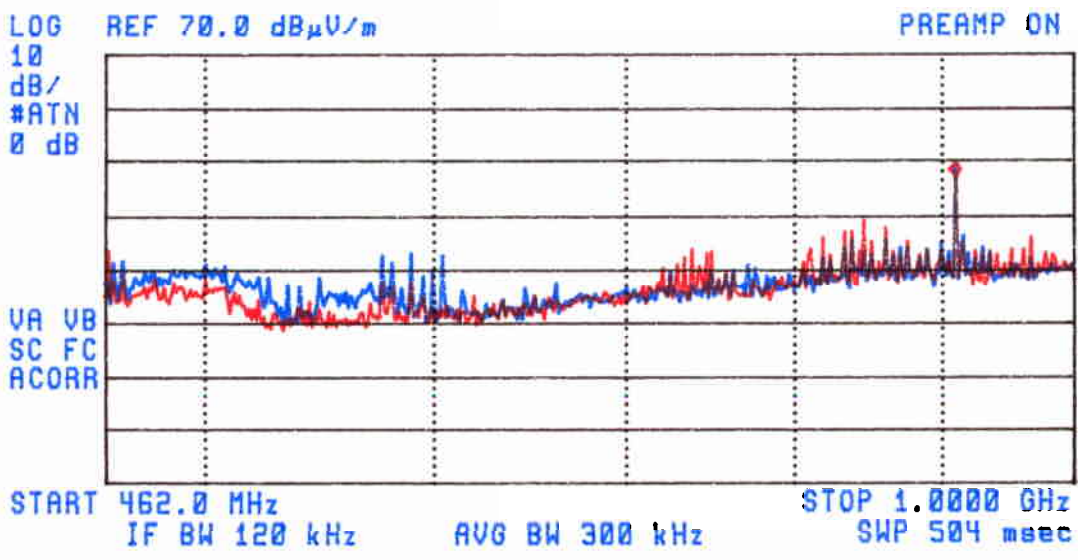
- OATS
- Semi-Anechoic
- Shielded Room
- Factory Floor
- Other

NOTES:

12:42:17 OCT 20, 2000  
 GE MEDICAL MODEL 340 TRANSMITTER RADIATED EMISSIONS  
 MARKER 307.5 MHz  
 27.57 dB $\mu$ V/m  
 ACTV DET: PEAK  
 MEAS DET: PEAK QP AVG  
 MKR 307.5 MHz  
 27.57 dB $\mu$ V/m



12:06:09 OCT 20, 2000  
 GE MEDICAL MODEL 340 TRANSMITTER RADIATED EMISSIONS  
 MARKER 921.1 MHz  
 46.81 dB $\mu$ V/m  
 ACTV DET: PEAK  
 MEAS DET: PEAK QP AVG  
 MKR 921.1 MHz  
 46.81 dB $\mu$ V/m



**TUV Rheinland of North America, Inc.**  
 North American Headquarters  
 Web: <http://www.tuv.com> E-mail: [info-new@tuv.com](mailto:info-new@tuv.com)



PL07E13

**MEAS TYPE:**

- Radiated Prescan
- Radiated Final
- Conducted
- Disturbance Power
- Other

**ANTENNA/COUPLER:**

- 9124 Bicon
- 3146 Log Per
- 3106 Horn
- 3109 Bicon
- 3115 Horn
- CBL6112B Bilog
- CBL6140 X-Wing
- MDS-21 Clamp
- NSLK 8126 LISN
- NNB-4/63TL LISN
- NNB-4/200X LISN

**POLARIZATION:**

- Horizontal
- Vertical
- NA

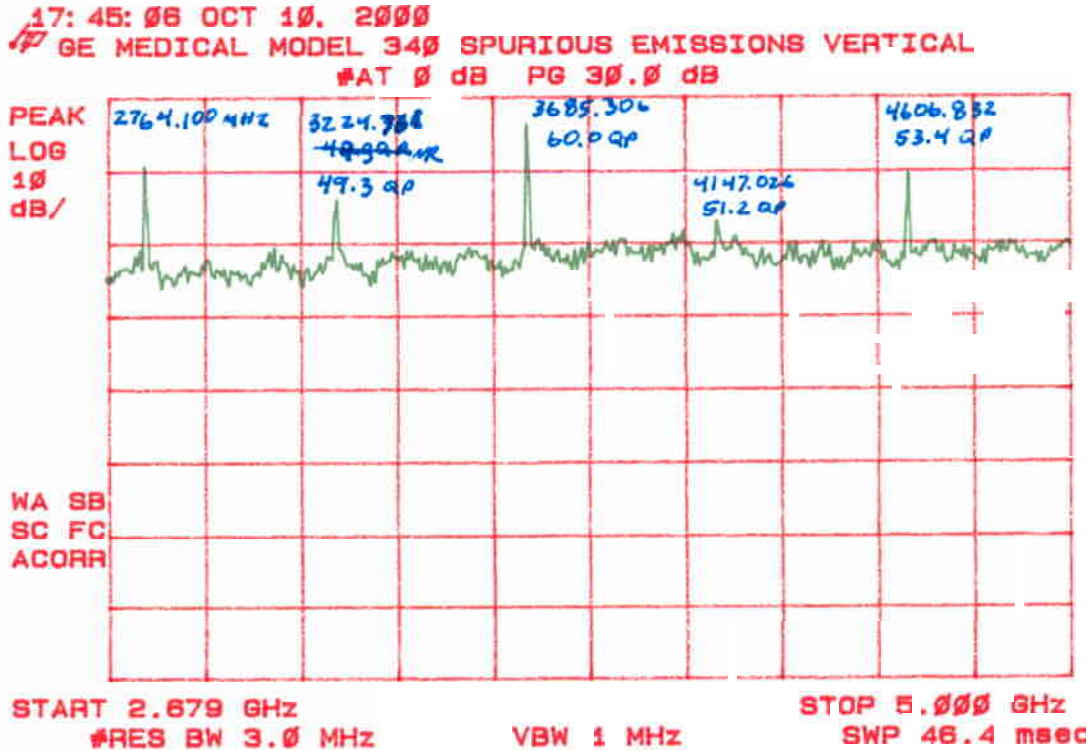
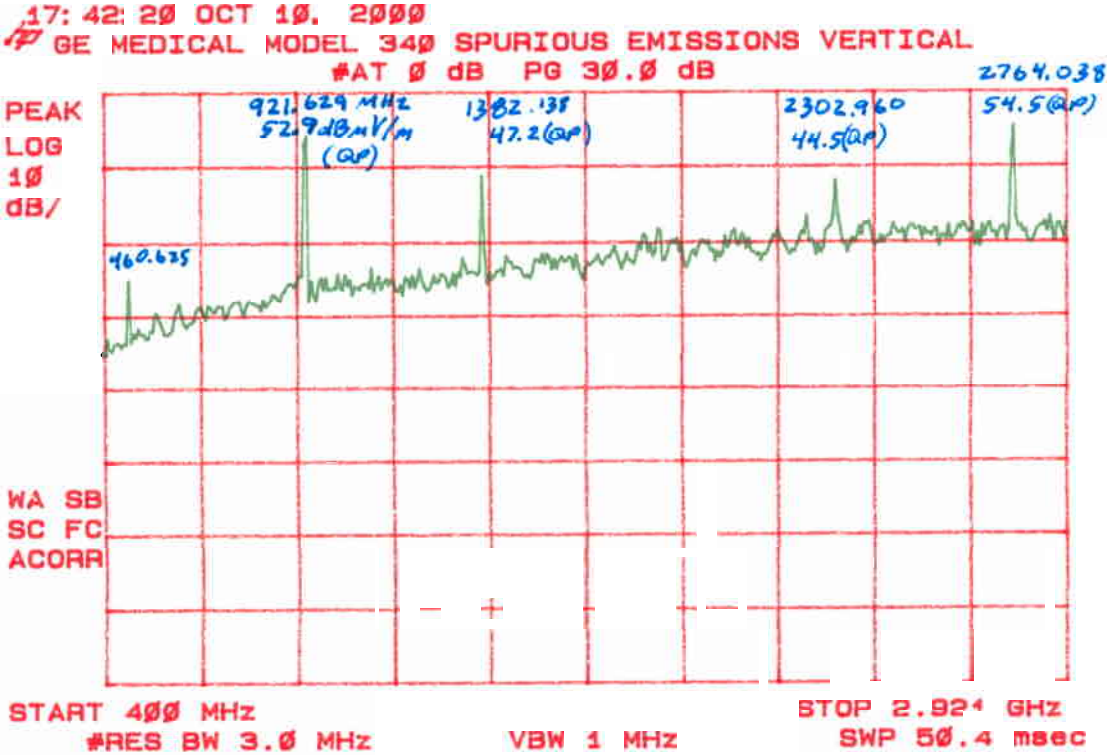
**DISTANCE:**

- 3 Meter
- 10 Meter
- Meter
- NA

**LOCATION:**

- OATS
- Semi-Anechoic
- Shielded Room
- Factory Floor
- Other

NOTES:  
 SPURIOUS EMISSIONS (FCC 90.217(b))  
 REF: 65dB<sub>uV/m</sub>





**MEAS TYPE:**

- Radiated Prescan
- Radiated Final
- Conducted
- Disturbance Power
- Other

**ANTENNA/COUPLER:**

- 9124 Bicon
- 3146 Log Per
- 3106 Horn
- 3109 Bicon
- 3115 Horn
- CBL6112B Bilog
- CBL6140 X-Wing
- MDS-21 Clamp
- NSLK 8126 LISN
- NNB-4/63TL LISN
- NNB-4/200X LISN

**POLARIZATION:**

- Horizontal
- Vertical
- NA

**DISTANCE:**

- 3 Meter
- 10 Meter
- Meter
- NA

**LOCATION:**

- OATS
- Semi-Anechoic
- Shielded Room
- Factory Floor
- Other

NOTES:  
 SPURIOUS EMISSIONS (FCC 90.217(b))  
 REF: 65.13 μV/m

