

Date: 22 OCT 2000
File: 00102201.xls

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



NOTES:

FIELD STRENGTH OF SPURIOUS EMISSIONS 2.10 53, 90.2176)
 HORIZONTAL AND VERTICAL REFERENCE LEVELS

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 - 180° 70° 49°
☒ Vertical - 70°
☐ NA

DISTANCE:

☒ 3 Meter
☐ 10 Meter
☐ Meter
☐ NA

LOCATION:

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



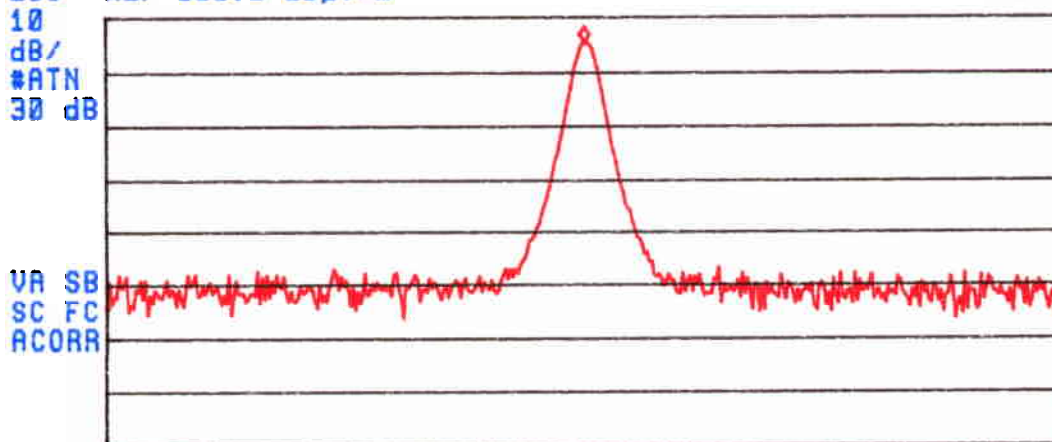
14:03:40 OCT 22, 2000
 GE MEDICAL FUNDAMENTAL PEAK - OATS - VERTICAL

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

LOG REF 100.0 dBμV/m

PREAMP ON



CENTER 460.663 MHz
 IF BW 120 kHz

AVG BW 300 kHz

SPAN 5.000 MHz
 SWP 20.0 msec

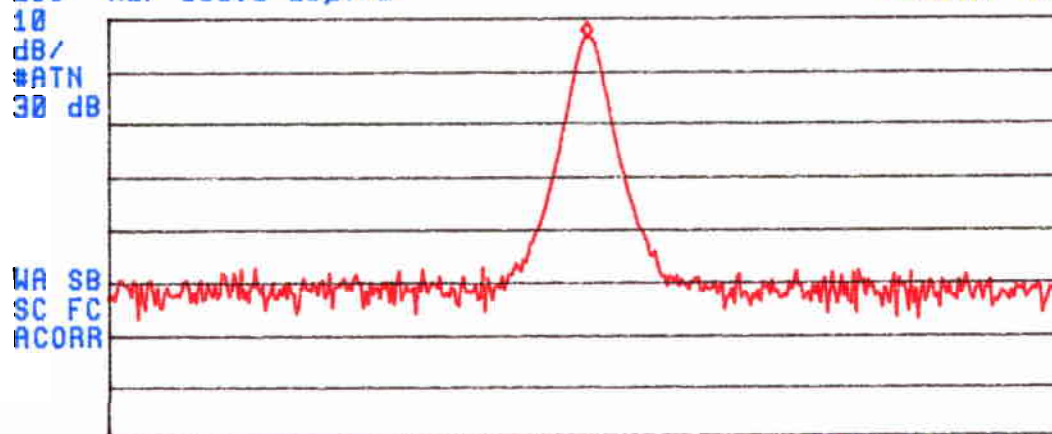
14:07:09 OCT 22, 2000
 GE MEDICAL FUNDAMENTAL PEAK - OATS - HORIZONTAL

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

LOG REF 100.0 dBμV/m

PREAMP ON



CENTER 460.663 MHz
 IF BW 120 kHz

AVG BW 300 kHz

SPAN 5.000 MHz
 SWP 20.0 msec

TUV Rheinland of North America, Inc.

North American Headquarters

Web: <http://www.tuv.com> E-mail: info-new@tuv.com

NOTES:

SARIOUS 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:

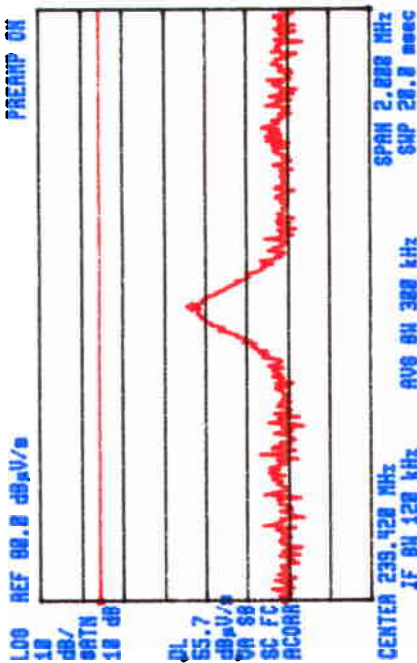
☒ 3 Meter
☐ 10 Meter
☐ Meter
☐ NA

LOCATION:

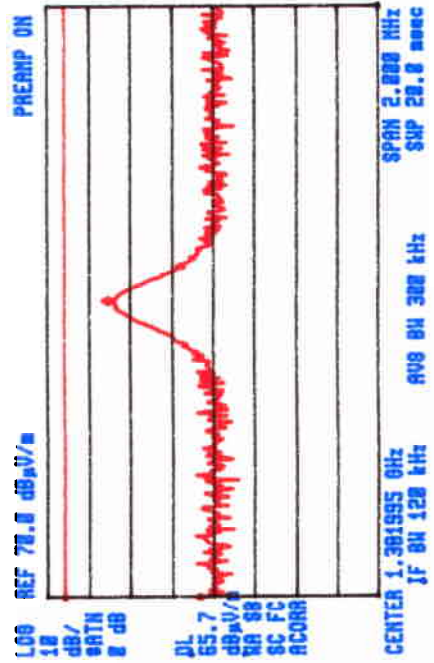
☒ OATS
☐ Semi-Anechoic
☐ Shielded Room
☐ Factory Floor
☐ Other



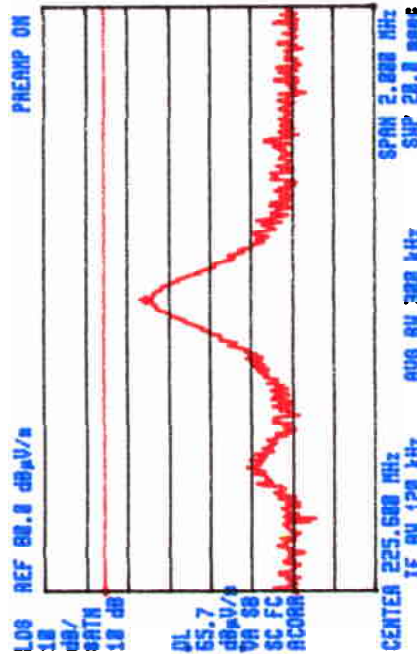
15:54:48 OCT 22, 2008
 9E MEDICAL MODEL 348 TRANSMITTER RADIATED EMISSIONS
 DISPLAY LINE
 FREQ 239.4 MHz
 PEAK 43.5 dBμV/m
 QP 42.2 dBμV/m
 AVG 41.2 dBμV/m



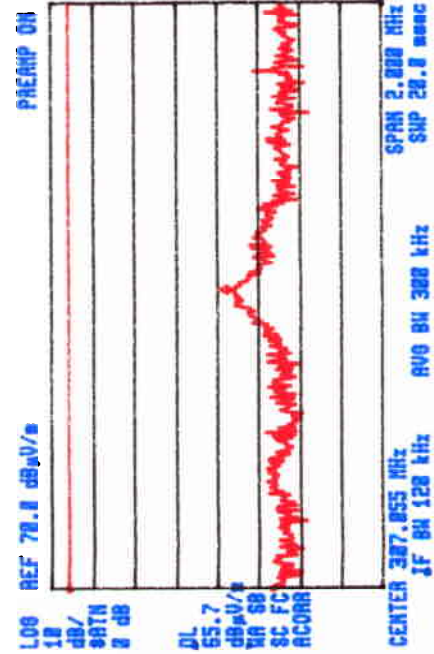
15:02:33 OCT 22, 2008
 9E MEDICAL MODEL 348 TRANSMITTER RADIATED EMISSIONS
 DISPLAY LINE
 FREQ 1.362 GHz
 PEAK 54.5 dBμV/m
 QP 53.8 dBμV/m
 AVG 53.5 dBμV/m



15:52:00 OCT 22, 2008
 9E MEDICAL MODEL 348 TRANSMITTER RADIATED EMISSIONS
 DISPLAY LINE
 FREQ 225.6 MHz
 PEAK 54.5 dBμV/m
 QP 53.9 dBμV/m
 AVG 53.3 dBμV/m



15:58:09 OCT 22, 2008
 9E MEDICAL MODEL 348 TRANSMITTER RADIATED EMISSIONS
 DISPLAY LINE
 FREQ 387.1 MHz
 PEAK 27.4 dBμV/m
 QP 25.2 dBμV/m
 AVG 23.5 dBμV/m



NOTES:

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:

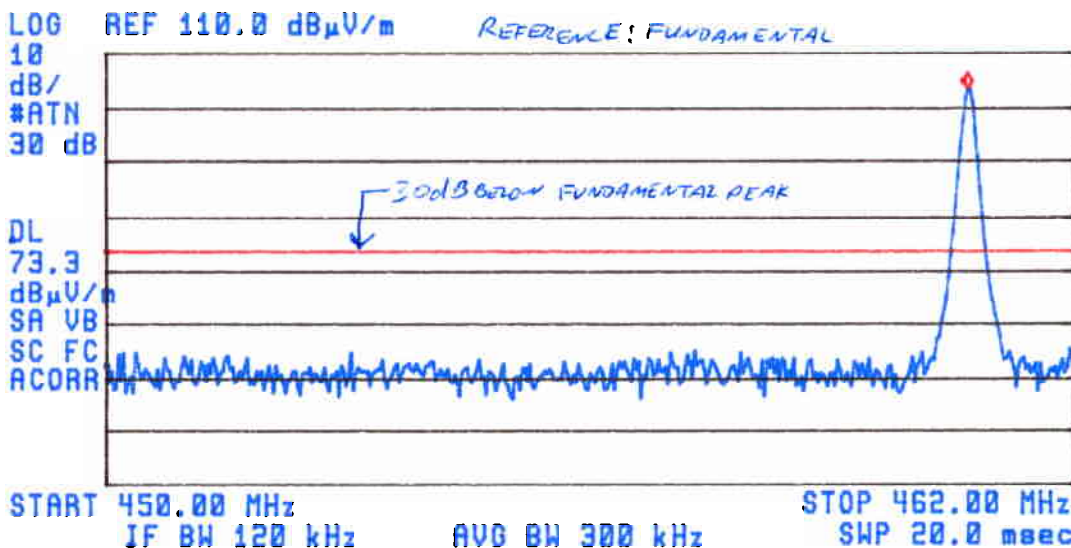
☒ 3 Meter
☐ 10 Meter
☐ Meter
☐ NA

LOCATION:

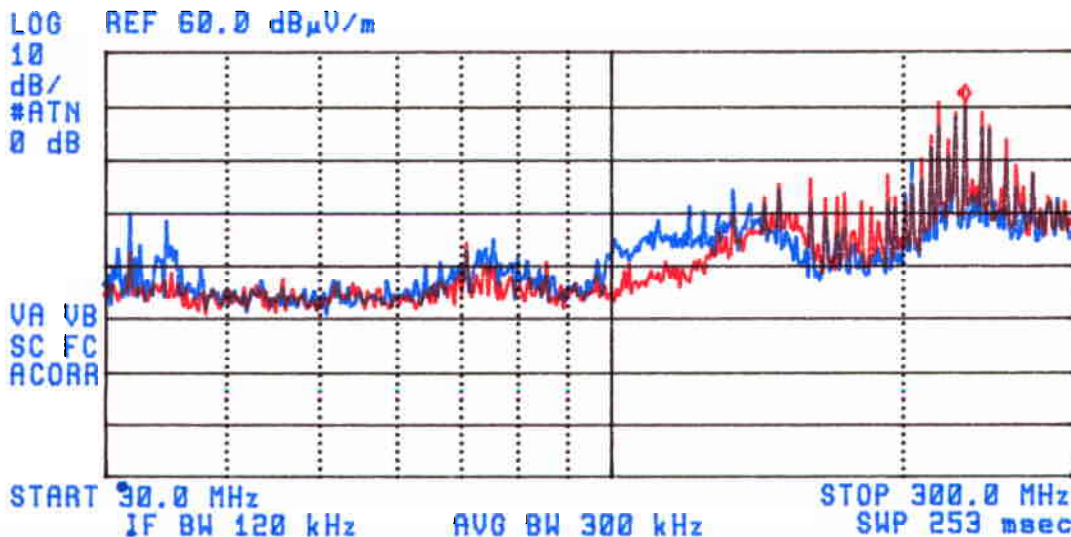
☐ OATS
☒ Semi-Anechoic
☐ Shielded Room
☐ Factory Floor
☐ Other



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



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



NOTES:

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

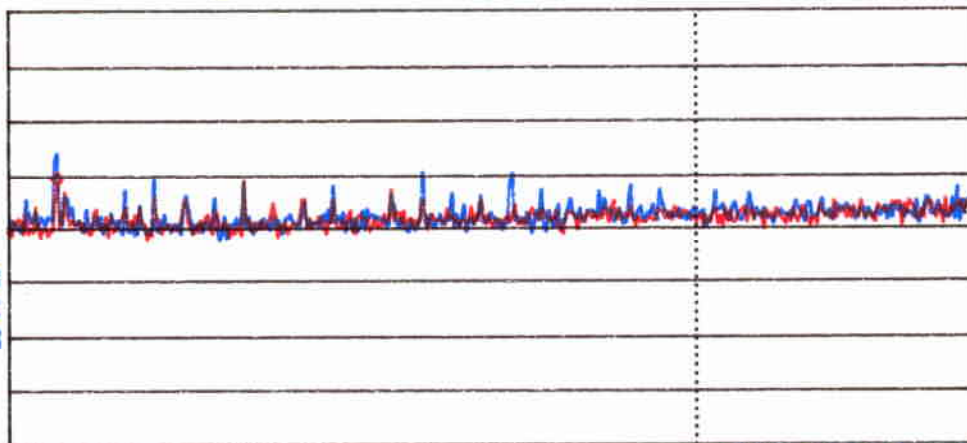


12:42:17 OCT 20, 2000
GE MEDICAL MODEL 340 TRANSMITTER RADIATED EMISSIONS
MARKER 307.5 MHz
27.57 dBμV/m
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 307.5 MHz
27.57 dBμV/m

LOG REF 60.0 dBμV/m

10
dB/
#ATN
0 dB

VA VB
SC FC
ACORR



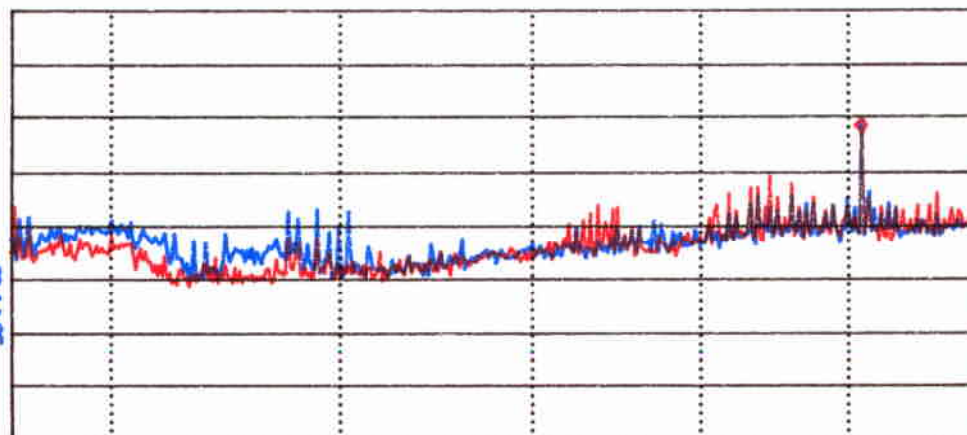
START 300.0 MHz IF BW 120 kHz AVG BW 300 kHz STOP 450.0 MHz SWP 141 msec

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

LOG REF 70.0 dBμV/m

10
dB/
#ATN
0 dB

VA VB
SC FC
ACORR



START 462.0 MHz IF BW 120 kHz AVG BW 300 kHz STOP 1.0000 GHz SWP 504 msec

NOTES:
SPURIOUS EMISSIONS (FCC 90.217(b))
REF: 65dB μ V/m

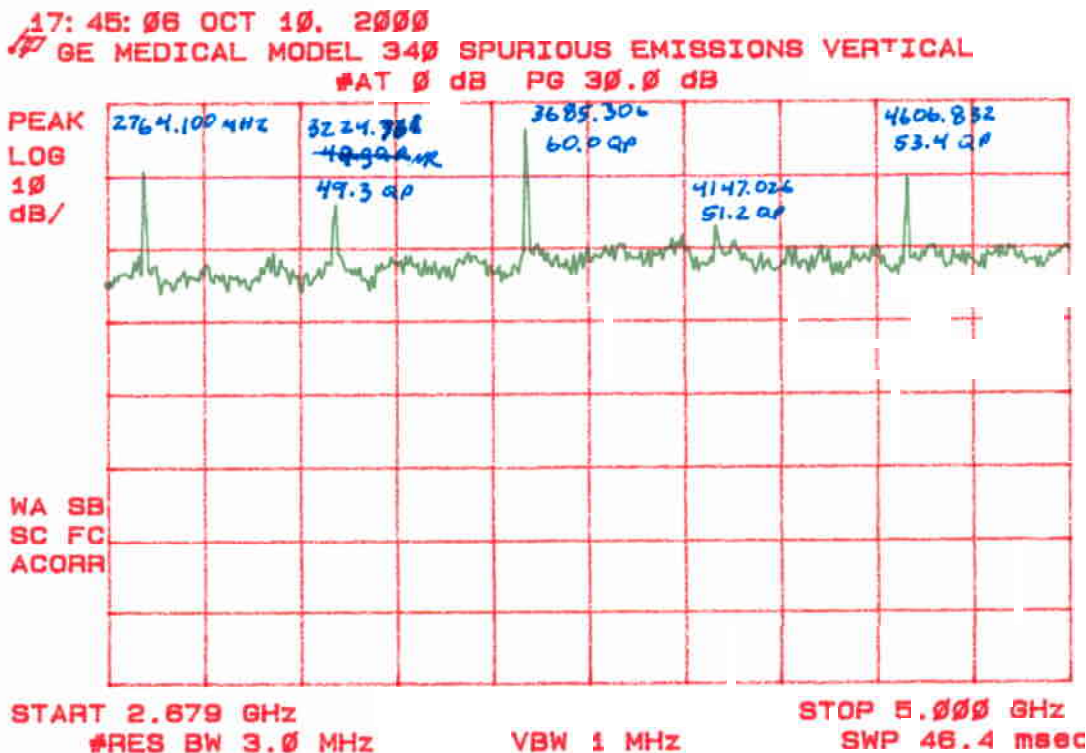
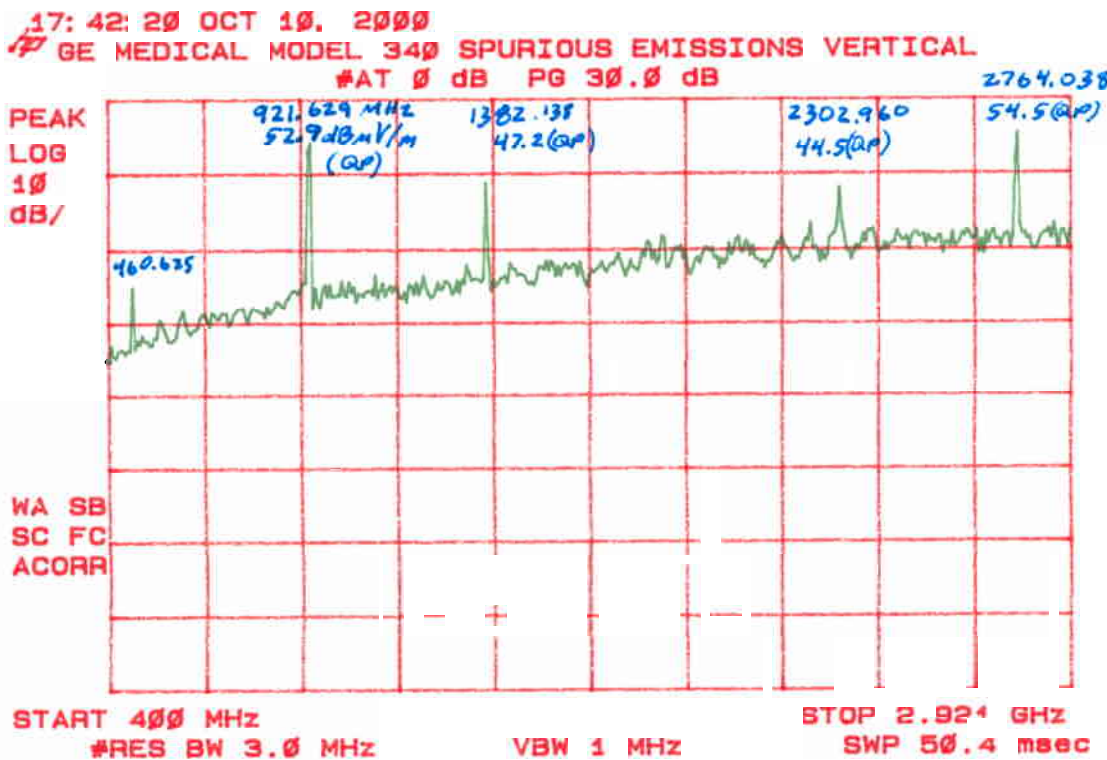
MEAS TYPE:
☒ Radiated Prescan
☐ Radiated Final
☐ Conducted
☐ Disturbance Power
☐ Other

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
☒ Vertical
☐ NA

DISTANCE:
☒ 3 Meter
☐ 10 Meter
☐ Meter
☐ NA

LOCATION:
☐ OATS
☒ Semi-Anechoic
☐ Shielded Room
☐ Factory Floor
☐ Other



NOTES:

SPURIOUS EMISSIONS (FLL 90.217(b))
 REF: 65.18 $\mu\text{V/m}$

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
- ☐ Vertical
- ☐ NA

DISTANCE:

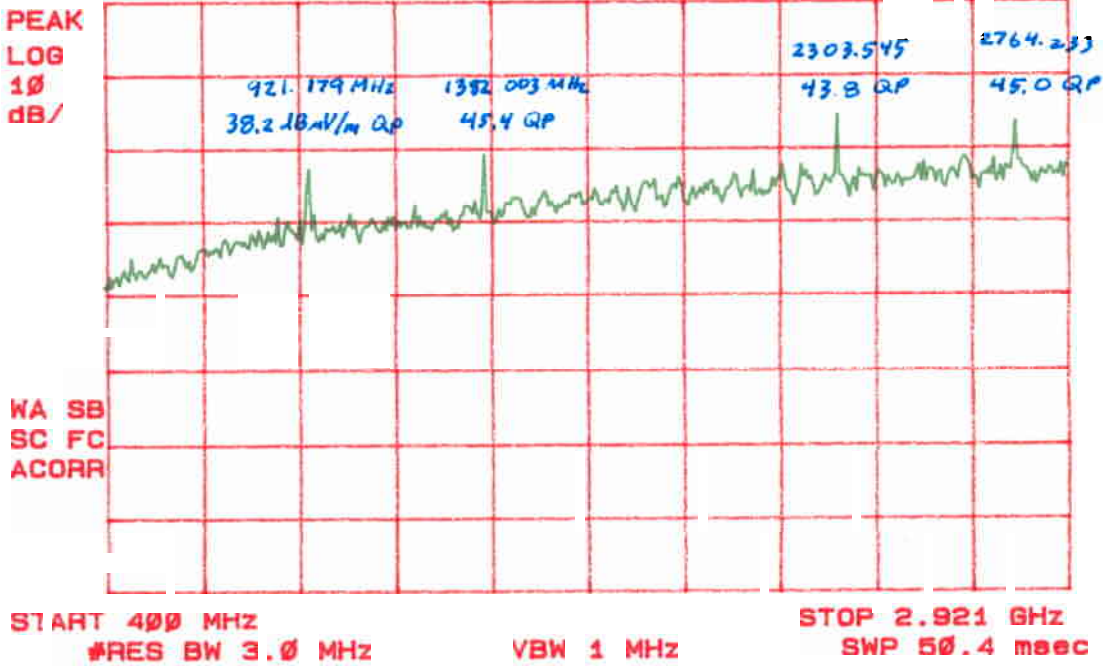
- ☒ 3 Meter
- ☐ 10 Meter
- ☐ Meter
- ☐ NA

LOCATION:

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



17:55:09 OCT 10, 2000
 GE MEDICAL MODEL 340 SPURIOUS EMISSIONS HORIZONTAL
 #AT 0 dB PG 30.0 dB



17:56:26 OCT 10, 2000
 GE MEDICAL MODEL 340 SPURIOUS EMISSIONS HORIZONTAL
 #AT 0 dB PG 30.0 dB

