

\$2.1053 Field Strength

Spurious Emissions Measurements

PRESCAN or FINAL: FINAL

Date: 09 DEC 2000

File: 00120801.xls

Standard: ANSI/TIA/EIA-603:1992, Section 2.2.12

Distance: 3m

Device Tested: GE Medical Systems Model 340T

Fundamental Frequency: 460.6625 MHz Level: -10.9 dBc Vertical (Using EMCO 3146 Antenna, Gain = 4.46 dBd)
Cable loss at Fundamental Frequency = 1.9 dB Horizontal (Using EMCO 3146 Antenna, Gain = 3.86 dBd)

Using the substitution method, from 30 - 5000 MHz

Meas #	Freq: MHz	Signal Generator Output Level: in dBm	Criteria: 30dB below Fundamental	Antenna Gain: in dBd	Cable Loss: in dB	Field Strength: in dBc (Sig. Gen. Output - Antenna Gain - Cable Loss)	Result: (Field Strength must be less than Criteria)	Polarization:	Δ From Limit:	Comment: (Antenna Used)
1	225.6	-64.2	-40.86	3.76	1.1	-69.06	Complied	Vertical	-28.2	EMCO 3146
2	921.3	-43.3	-40.86	4.16	3.0	-50.46	Complied	Vertical	-9.6	EMCO 3146
3	1382.0	-57.9	-40.86	3.86	0.9	-62.66	Complied	Vertical	-21.8	EMCO 3115
4	2303.0	-54.9	-40.86	5.36	1.1	-61.36	Complied	Vertical	-20.5	EMCO 3115
5	2764.0	-44.1	-40.86	5.86	0.9	-50.86	Complied	Vertical	-10.0	EMCO 3115
6	3224.6	-51.8	-40.86	6.26	1.7	-59.76	Complied	Vertical	-18.9	EMCO 3115
7	3685.0	-49.5	-40.86	6.26	1.8	-57.57	Complied	Vertical	-16.7	EMCO 3115
8	4146.0	-51.5	-40.86	6.06	2.1	-59.61	Complied	Vertical	-18.8	EMCO 3115
9	4606.7	-53.1	-40.86	7.36	2.5	-62.92	Complied	Vertical	-22.1	EMCO 3115
10	225.6	-61.6	-38.16	3.36	1.1	-66.06	Complied	Horizontal	-27.9	EMCO 3146
11	921.3	-43.9	-38.16	3.46	3.0	-50.36	Complied	Horizontal	-12.2	EMCO 3146
12	1382.0	-49.7	-38.16	4.36	0.9	-54.96	Complied	Horizontal	-16.8	EMCO 3115
13	2303.0	-50.2	-38.16	5.16	1.1	-56.46	Complied	Horizontal	-18.3	EMCO 3115
14	2764.0	-43.7	-38.16	5.56	0.9	-50.16	Complied	Horizontal	-12.0	EMCO 3115
15	3224.6	-50.7	-38.16	5.96	1.7	-58.36	Complied	Horizontal	-20.2	EMCO 3115
16	3685.0	-68.4	-38.16	5.96	1.8	-76.17	Complied	Horizontal	-38.0	EMCO 3115
17	4146.0	-57.0	-38.16	5.86	2.1	-64.91	Complied	Horizontal	-26.8	EMCO 3115
18	4606.7	-44.3	-38.16	7.16	2.5	-53.92	Complied	Horizontal	-15.8	EMCO 3115

Antennas Used: EMCO 3146 Log Periodic, s/n: 4226

EMCO 3115 Horn, s/n: 4227

Tested by: Mark Ryan

TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470

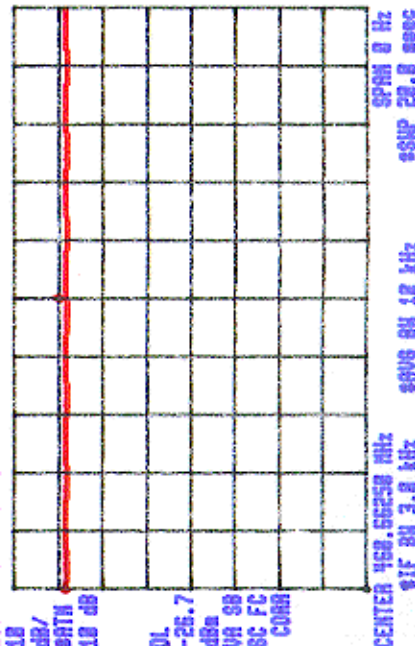
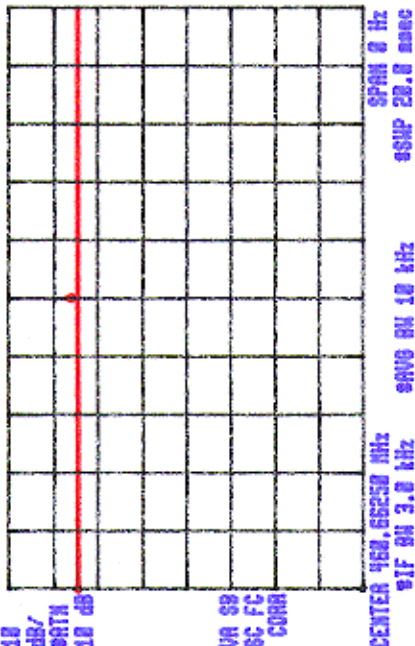
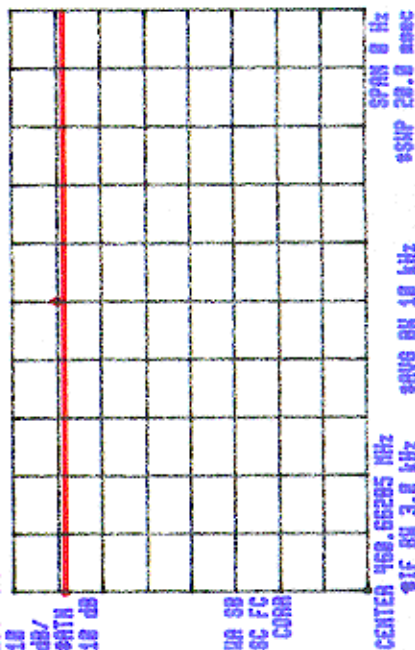
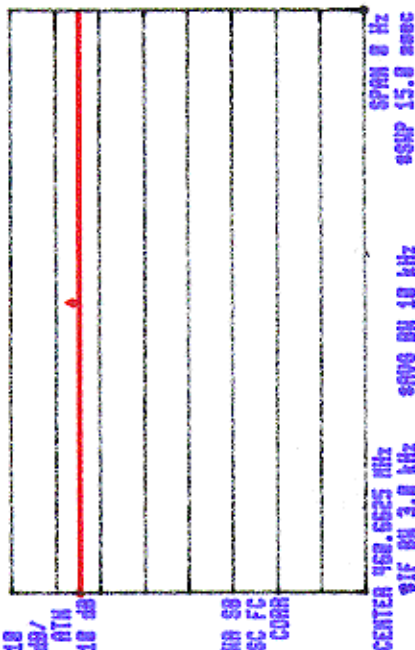
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NOTES:

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
- ☒ Vertical
- ☐ NA

DISTANCE:

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

LOCATION:

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



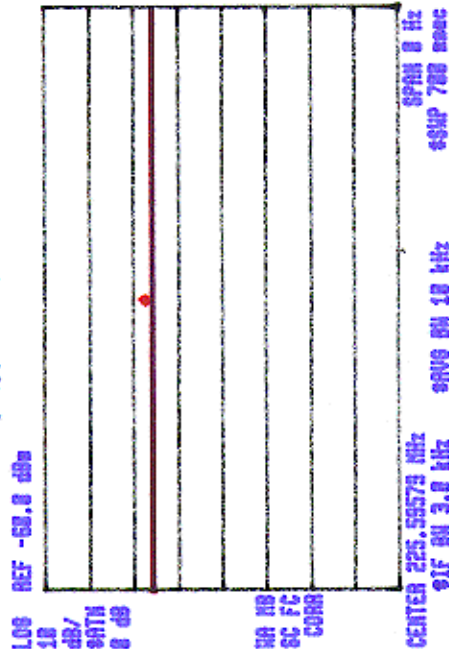
TUV Rheinland of North America, Inc.

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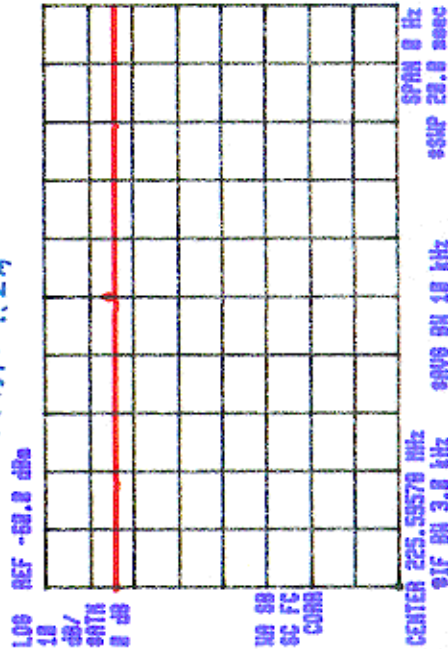
15:14:53 DEC 09, 2000
SPUR FROM TRANSMITTER: VERTICAL

BARRED
353.00 mV
-81.23 dB
TT: 154°
MAST: 1M



16:08:12 DEC 09, 2000
SPUR FROM TRANSMITTER: HORIZONTAL

BARRED
10.003 mV
-75.91 dB
TT: 281°
MAST: 1.2M

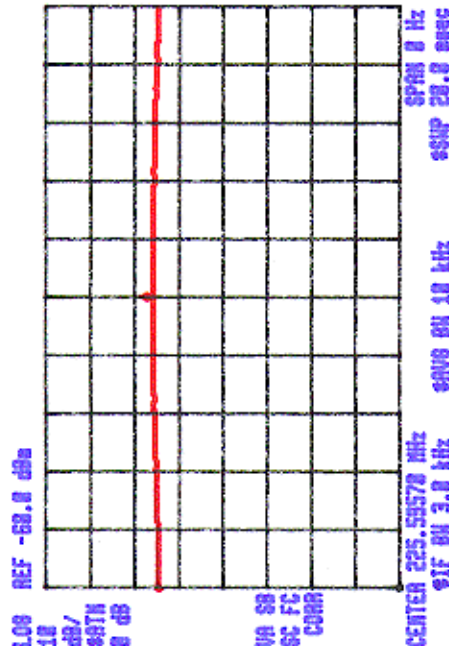


NOTES: §2.1053

FIELD STRENGTH OF SPURIOUS EMISSIONS §2.1053
TYPICAL MEASUREMENT USING THE SUBSTITUTION METHOD

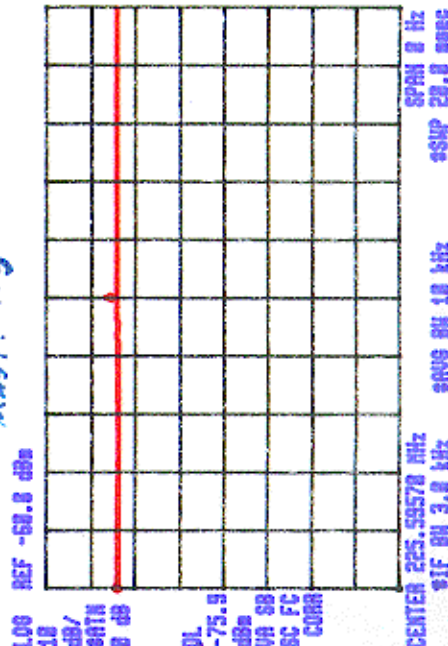
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OUTPUT FROM §10.0EN: VERT, -81.2 dB

ACTU DET: PEAK
HEARS DET: PEAK QP AVG
NR 10.000 mV
-81.27 dB
TT: 0°
MAST: 1M



17:14:00 DEC 09, 2000
OUTPUT FROM §10.0EN: HORIZ, -81.5 dB

DISPLAY LINE
-75.9 dB
TT: 0°
MAST: 1.3M



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 } NOTED
☐ Vertical
☐ NA

DISTANCE:

☒ 3 Meter
☐ 10 Meter
☐ Meter
☐ NA

LOCATION:

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

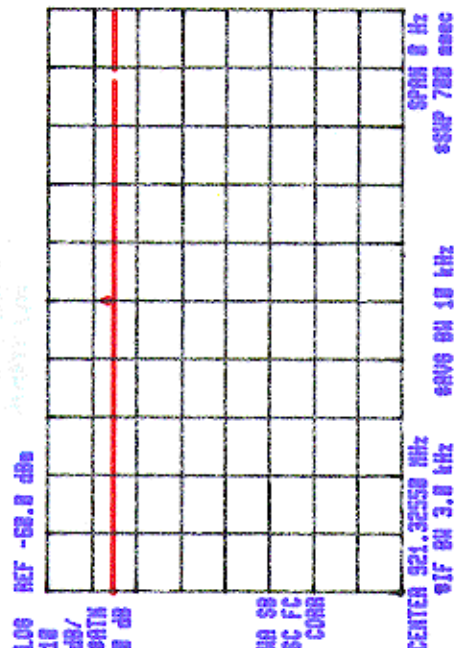
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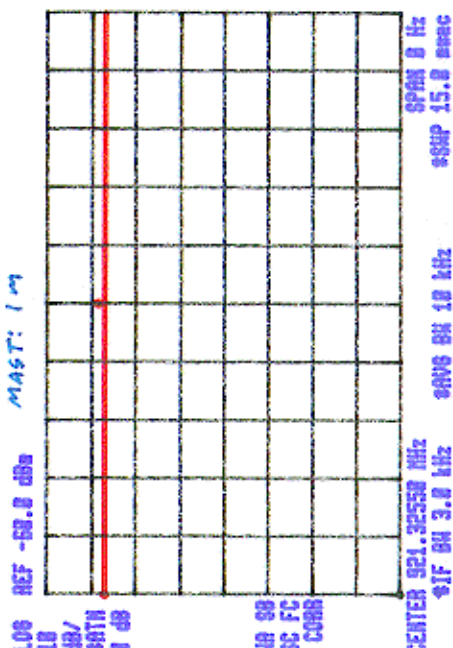
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15:51:43 DEC 09, 2000
SPUR FROM TRANSMITTER: VERTICAL
TT: 30°
MAST: 1.1m
ACTV DET: PEAK
HRS DET: PEAK QP AVG
MKR 359.83 msc
-74.66 dba



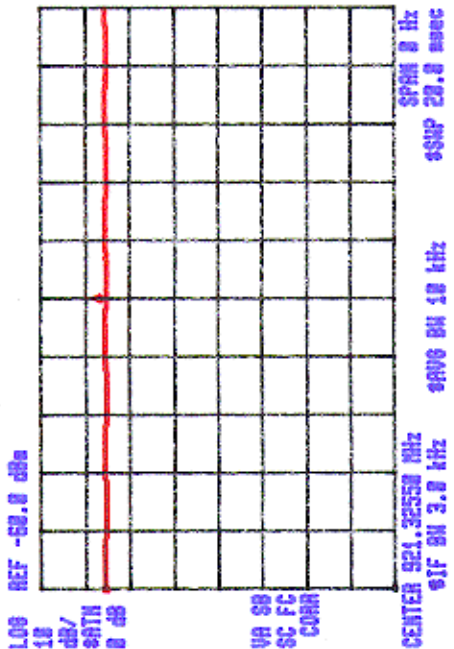
16:01:11 DEC 09, 2000
SPUR FROM TRANSMITTER: HORIZONTAL
TT: 177°
MAST: 1m
ACTV DET: PEAK
HRS DET: PEAK QP AVG
MKR 7.5000 msc
-73.83 dba



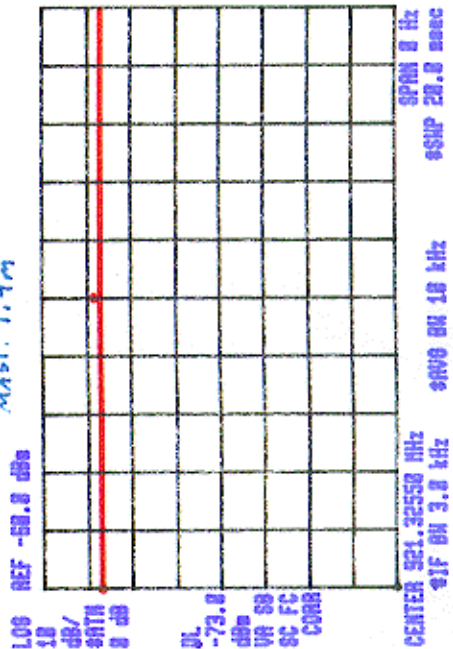
NOTES: 5 2.1053

FIELD STRENGTH OF SPURIOUS EMISSIONS
TYPICAL MEASUREMENTS USING THE SUBSTITUTION METHOD

17:53:30 DEC 09, 2000
OUTPUT FROM 810.0EN: VERT, -43.3 dba
TT: 0°
MAST: 1m
ACTV DET: PEAK
HRS DET: PEAK QP AVG
MKR 10.000 msc
-74.66 dba



17:06:23 DEC 09, 2000
OUTPUT FROM 810.0EN: HORIZ, -43.3 dba
TT: 0°
MAST: 1.4m
ACTV DET: PEAK
HRS DET: PEAK QP AVG
MKR 10.000 msc
-73.83 dba



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☐ NNB-4/200X LISN

POLARIZATION:

☐ Horizontal
☐ Vertical
☐ NA

DISTANCE:

☒ 3 Meter
☐ 10 Meter
☐ Meter
☐ NA

LOCATION:

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