

EMC EMISSION - TEST REPORT

UNITED STATES STANDARD 47 CFR PART 15

Test Report File No. : **0379-06** Date of Issue: 28 December 2000

Model / Serial No. : **100 / --**

Product Type : **HealthSensor**

Applicant : **HWI Manufacturing**

Manufacturer : **HWI Manufacturing**

License holder : **HWI Manufacturing**

Address : **PO Box 237, 5963 Weld County Road 16**
 : **Frederic, CO 80530-0237**

Test Result : **Positive** **Negative**

Test Project Number
 Reference(s) : **0379-06**

Total pages - Test Report : **24**

NOTE: All test equipment used during testing is calibrated and traceable to NIST.

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Test Report

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EMISSIONS TEST REGULATIONS :

The emissions tests were performed according to the following regulations:

- EN 50081-1 / 1991
- EN 55011 / 1998
 - Group 1
 - Class A
- EN 55014 / 1993
 - Group 2
 - Class B
- EN 55022 / 1987
 - Household appliances and similar
 - Portable tools
 - Semiconductor devices
- EN 55022 / 1998
 - Class A
 - Class B
- VCCI
 - Class A
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 - Class A ITE
 - Class B ITE
- - 47 CFR Part 15
 - 15.231
 - 107(b)
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 - - 15.209
 - 109(b)
 - 109(a)
 - 109(g) - Class A - Class B
- AS/NZS 3548: 1995
 - Class A
 - Class B
- CISPR 11 (1997)
 - Group 1
 - Class A
 - Group 2
 - Class B
- CISPR 22 (1997)
 - Class A
 - Class B

Environmental Conditions In The Laboratory:

	<u>Actual</u>
Temperature:	: 18.6 °C
Relative Humidity:	: 18 %
Atmospheric Pressure:	: 79 kPa

Power Supply Utilized:

Power supply system : 3 VDC (battery)

Symbol Definitions:

- - Applicable
- - Not Applicable

Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The *RADIATED EMISSIONS (ELECTRIC FIELD)* measurements, in the frequency range of 30 MHz - 3200 MHz, were tested in a horizontal and vertical polarization at the following test location :

- Test not applicable

■ - Pinewood Site #1

Testing was performed at a test distance of :

■ - 3 meters

Test Equipment Used :

Equip ID	Manufacturer	Model Number	Serial Number	Description	Date	Calibration Interval	Due	Cal Code
Test Performed R		Radiated Emissions						
430	Hewlett Packard	8594E	3303A00365	Spectrum Analyzer	05/01	12	05/02	
7514	A.H.SYSTEMS	SAS-200/512	104	Log Periodic Antenna (200-1500 MHz)	12-Sep-2000	12	12-Sep-2001	G
7616	MINI-CIRCUITS LAB	ZFL-500	HO41895	Amplifier	29-Sep-2000	12	29-Sep-2001	G
8005	HEWLETT PACKARD	8447F	3113A04923	Option H64 Dual Preamp				B
8179	EMCO	3108	2149	Biconical Dipole Antenna (30-300 MHz)	06-Jul-2000	12	06-Jul-2001	G
8212	MINI CIRCUITS	ZHL-1042J	D020499-5	Amplifier				B
8213	HEWLETT PACKARD	8566B	2410A00154	Spectrum Analyzer (dc-22 GHz)	12-May-2000	12	12-May-2001	G
8219	HEWLETT PACKARD	8445B	2034A03223	Pre-Selector	15-Jun-2000	12	15-Jun-2001	G
8264	EMCO	3115	9205-3886	Horn Antenna	20-May-2000	12	20-May-2001	G
8345	HEWLETT-PACKARD	85650A	2811A01300	Q.P Adapter	23-Nov-1999	12	22-Nov-2000	G

Cal Code Legend: G=Out Source, Y=No Cal required, R=Out of Service, B=In-House Verification Required

Remarks: One year calibration cycle for all test equipment.

Equipment Under Test (EUT) Test Operation Mode - Emissions Tests :

The equipment under test was operated under the following conditions during emissions testing:

- Standby
- Test Program (H - Pattern)
- Test Program (Color Bar)
- Test Program (Customer Specified)
- Practice Operation
- Normal Operating Mode
- _____

Configuration of the equipment under test:

- See Constructional Data Form in Appendix B - Page B2
- See Product Information Form(s) in Appendix B - Page B2

The following peripheral devices and interface cables were connected during the testing:

- | | |
|---|----------------|
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - unshielded power cable | |
| <input type="checkbox"/> - unshielded cables | |
| <input type="checkbox"/> - shielded cables | MPS.No.: _____ |
| <input type="checkbox"/> - customer specific cables | |
| <input type="checkbox"/> - _____ | |
| <input type="checkbox"/> - _____ | |

GENERAL REMARKS:

NOTE: All photographs are representative of setup for maximum emissions.

(*) Conducted Emissions - not tested. EUT is battery powered.

SUMMARY:

All tests according to the regulations cited on page 3 were

- Performed

- **Not Performed***

The Equipment Under Test

- **Fulfills** the general approval requirements cited on page 3.*

- **Does not** fulfill the general approval requirements cited on page 3.

Statement of Measurement Uncertainty

The data and results referenced in this document are true and accurate. The measurement uncertainty is calculated to be ± 2 dB for conducted emissions and ± 4 dB for radiated emissions.


Equipment Received Date: 06 November 2000

Testing Start Date: 06 November 2000

Testing End Date: 06 November 2000

- TÜV PRODUCT SERVICE, INC. -

Reviewed By:



Robert Cresswell

Tested By:



Carlos Marrero

Technical Documentation

Test Data Sheets
and
Test Setup Drawing(s)



PRODUCT SERVICE



PRODUCT SERVICE

Radiated Electromagnetic Emissions

Test Report #:	B0379 Run 02	Test Area:	Pinewood Site 1 (3m)	Temperature:	18.7 °C
Test Method:	FCC Part 15, <i>15.209</i>	Test Date:	06-Nov-2000	Relative Humidity:	<18% %
EUT Model #:	Health Sensor 100	EUT Power:	3 VDC	Air Pressure:	79 kPa
EUT Serial #:	UM-E-319.5-001			Page:	1 of 3
Manufacturer:	HWI				
EUT Description:	Medical Alert Transmitter				
Notes:					

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dBm) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 (dB) FCC B (< 1GHz)	DELTA2 (dB) N/A
No emissions found on the vertical at 0, 90, 180, and 270 degrees						
Below readings are noise floor measurements						
30.00	30.1 Qp	0.4 / 13.2 / 27.2	16.5	V / 1.0 / 0.0	-23.5	N/A
50.16	29.7 Qp	0.5 / 10.6 / 27.1	13.6	V / 1.0 / 0.0	-26.4	N/A
119.93	28.7 Qp	0.6 / 11.2 / 27.0	13.5	V / 1.0 / 0.0	-30.0	N/A
180.56	24.2 Qp	0.8 / 13.0 / 26.7	11.3	V / 1.0 / 0.0	-32.2	N/A
106.50	33.5 Qp	0.6 / 9.6 / 27.1	16.6	V / 1.0 / 0.0	-26.9	N/A
no emissions found on the horizontal at 0, 90, 180, and 270 degrees						
below readings are noise floor measurements						
30.00	27.2 Qp	0.4 / 13.2 / 27.2	13.6	H / 1.0 / 0.0	-26.4	N/A
50.16	30.2 Qp	0.5 / 10.6 / 27.1	14.1	H / 1.0 / 0.0	-25.9	N/A
106.50	22.2 Pk	0.6 / 9.6 / 27.1	5.4	H / 1.0 / 0.0	-38.1	N/A
119.93	24.4 Qp	0.6 / 11.2 / 27.0	9.2	H / 1.0 / 0.0	-34.3	N/A
180.56	22.2 Qp	0.8 / 13.0 / 26.7	9.2	H / 1.0 / 0.0	-34.3	N/A
no emissions found on the vertical at 0, 90, 180, and 270 degrees						
below readings are floor measurements						

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Radiated Electromagnetic Emissions

Test Report #:	B0379 Run 02	Test Area:	Pinewood Site 1 (3m)		
Test Method:	FCC Part 15, 15.209	Test Date:	06-Nov-2000		
EUT Model #:	Health Sensor 100	EUT Power:	3 VDC		
EUT Serial #:	UM-E-319.5-001	Temperature:	18.7 °C		
Manufacturer:	HWI	Relative Humidity:	<18% %		
EUT Description:	Medical Alert Transmitter	Air Pressure:	79 kPa		
Notes:				Page:	2 of 3

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dBm) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 (dB) FCC B (< 1GHz)	DELTA2 (dB) N/A
213.00	23.1 Qp	0.8 / 13.8 / 26.6	11.1	V / 1.0 / 0.0	-32.4	N/A
319.50	21.6 Qp	1.0 / 14.0 / 26.7	9.9	V / 1.0 / 0.0	-36.1	N/A
426.00	22.3 Qp	1.2 / 16.3 / 27.4	12.4	V / 1.0 / 0.0	-33.6	N/A
532.50	22.4 Qp	1.4 / 17.9 / 27.8	13.9	V / 1.0 / 0.0	-32.1	N/A
639.00	22.4 Qp	1.6 / 21.7 / 27.9	17.9	V / 1.0 / 0.0	-28.1	N/A
745.50	25.6 Qp	1.7 / 21.3 / 27.8	20.7	V / 1.0 / 0.0	-25.3	N/A
958.50	20.9 Qp	2.0 / 24.3 / 27.1	20.2	V / 1.0 / 0.0	-25.8	N/A
no emissions found at the horizontal at 0, 90, 180, and 270 degrees						
below readings are noise floor measurements						
213.00	20.9 Qp	0.8 / 13.8 / 26.6	8.9	H / 1.0 / 0.0	-34.6	N/A
213.00	21.0 Qp	0.8 / 13.8 / 26.6	9.0	H / 1.0 / 0.0	-34.5	N/A
319.50	20.6 Qp	1.0 / 14.0 / 26.7	8.9	H / 1.0 / 0.0	-37.1	N/A
426.00	21.2 Qp	1.2 / 16.3 / 27.4	11.4	H / 1.0 / 0.0	-34.6	N/A
532.50	21.6 Qp	1.4 / 17.9 / 27.8	13.0	H / 1.0 / 0.0	-33.0	N/A
639.00	21.6 Qp	1.6 / 21.7 / 27.9	17.0	H / 1.0 / 0.0	-29.0	N/A
745.50	23.5 Qp	1.7 / 21.3 / 27.8	18.7	H / 1.0 / 0.0	-27.3	N/A
852.00	21.9 Qp	1.9 / 22.2 / 27.5	18.4	H / 1.0 / 0.0	-27.6	N/A
958.50	20.9 Qp	2.0 / 24.3 / 27.1	20.2	H / 1.0 / 0.0	-25.8	N/A

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Radiated Electromagnetic Emissions

Test Report #:	B0379 Run 02	Test Area:	Pinewood Site 1 (3m)		
Test Method:	FCC Part 15, <i>15.209</i>	Test Date:	06-Nov-2000		
EUT Model #:	Health Sensor 100	EUT Power:	3 VDC		
EUT Serial #:	UM-E-319.5-001			Temperature:	18.7 °C
Manufacturer:	HWI			Relative Humidity:	<18% %
EUT Description:	Medical Alert Transmitter			Air Pressure:	79 kPa
Notes:				Page:	3 of 3

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dBm) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 (dB) FCC B (< 1GHz)	DELTA2 (dB) N/A
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***** MEASUREMENT SUMMARY *****						
30.00	30.1 Qp	0.4 / 13.2 / 27.2	16.5	V / 1.0 / 0.0	-23.5	N/A
745.50	25.6 Qp	1.7 / 21.3 / 27.8	20.7	V / 1.0 / 0.0	-25.3	N/A
958.50	20.9 Qp	2.0 / 24.3 / 27.1	20.2	H / 1.0 / 0.0	-25.8	N/A
50.16	30.2 Qp	0.5 / 10.6 / 27.1	14.1	H / 1.0 / 0.0	-25.9	N/A
106.50	33.5 Qp	0.6 / 9.6 / 27.1	16.6	V / 1.0 / 0.0	-26.9	N/A
852.00	21.9 Qp	1.9 / 22.2 / 27.5	18.4	H / 1.0 / 0.0	-27.6	N/A
639.00	22.4 Qp	1.6 / 21.7 / 27.9	17.9	V / 1.0 / 0.0	-28.1	N/A
119.93	28.7 Qp	0.6 / 11.2 / 27.0	13.5	V / 1.0 / 0.0	-30.0	N/A
532.50	22.4 Qp	1.4 / 17.9 / 27.8	13.9	V / 1.0 / 0.0	-32.1	N/A
180.56	24.2 Qp	0.8 / 13.0 / 26.7	11.3	V / 1.0 / 0.0	-32.2	N/A
213.00	23.1 Qp	0.8 / 13.8 / 26.6	11.1	V / 1.0 / 0.0	-32.4	N/A
426.00	22.3 Qp	1.2 / 16.3 / 27.4	12.4	V / 1.0 / 0.0	-33.6	N/A
319.50	21.6 Qp	1.0 / 14.0 / 26.7	9.9	V / 1.0 / 0.0	-36.1	N/A

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Radiated Electromagnetic Emissions

Test Report #:	B0379 Run 01	Test Area:	Pinewood Site 1 (3m)
Test Method:	15.231	Test Date:	06-Nov-2000
EUT Model #:	Health Sensor 100	EUT Power:	3 VDC
EUT Serial #:	UM-E-319.5-001	Temperature:	18.6 °C
Manufacturer:	HWI	Relative Humidity:	<18 %
EUT Description:	Medical Alert Transmitter	Air Pressure:	79 kPa
Notes:			Page: 1 of 4

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dBm) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 (dB) N/A	DELTA2 (dB) N/A
Intentional Radiator						
Transmitter Horizontal						
319.51	70.7 Pk	1.0 / 14.0 / 0.0	85.7	H / 1.0 / 319.0	N/A	N/A
319.51	70.7 Pk	1.0 / 14.0 / 0.0	85.7	H / 1.0 / 131.5	N/A	N/A
319.51	57.2 Pk	1.0 / 14.0 / 0.0	72.2	V / 1.0 / 198.8	N/A	N/A
Transmitter On Edge						
319.51	65.5 Pk	1.0 / 14.0 / 0.0	80.5	V / 1.9 / 9.0	N/A	N/A
319.51	70.8 Pk	1.0 / 14.0 / 0.0	85.8	H / 1.0 / 84.0	N/A	N/A
319.51	70.5 Pk	1.0 / 14.0 / 0.0	85.5	H / 1.0 / 285.0	N/A	N/A
639.01	37.1 Pk	1.6 / 21.7 / 0.0	60.4	V / 1.0 / 0.0	N/A	N/A
426.01	39.8 Pk	1.2 / 16.3 / 0.0	57.3	V / 1.2 / 168.0	N/A	N/A
532.51	38.1 Pk	1.4 / 17.8 / 0.0	57.4	V / 1.0 / 5.0	N/A	N/A
958.51	26.8 Pk	2.0 / 24.3 / 0.0	53.1	V / 1.1 / 7.0	N/A	N/A
958.51	22.3 Pk	2.0 / 24.3 / 0.0	48.6	H / 1.0 / 15.0	N/A	N/A
532.51	38.6 Pk	1.4 / 17.8 / 0.0	57.8	H / 2.1 / 278.0	N/A	N/A
426.01	39.1 Pk	1.2 / 16.3 / 0.0	56.6	H / 1.0 / 85.0	N/A	N/A
Transmitter Horizontal						
426.01	39.9 Pk	1.2 / 16.3 / 0.0	57.4	H / 2.3 / 279.0	N/A	N/A
532.51	41.1 Pk	1.4 / 17.8 / 0.0	60.3	H / 1.8 / 272.0	N/A	N/A
639.01	31.4 Pk	1.6 / 21.7 / 0.0	54.7	H / 1.3 / 153.0	N/A	N/A
639.01	26.1 Pk	1.6 / 21.7 / 0.0	49.4	V / 1.0 / 335.0	N/A	N/A
532.51	32.3 Pk	1.4 / 17.8 / 0.0	51.5	V / 2.2 / 3.0	N/A	N/A

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Radiated Electromagnetic Emissions

Test Report #:	B0379 Run 01	Test Area:	Pinewood Site 1 (3m)		
Test Method:	15.231	Test Date:	06-Nov-2000		
EUT Model #:	Health Sensor 100	EUT Power:	3 VDC		
EUT Serial #:	UM-E-319.5-001	Temperature:	18.6 °C		
Manufacturer:	HWI	Relative Humidity:	<18 %		
EUT Description:	Medical Alert Transmitter	Air Pressure:	79 kPa		
Notes:		Page:	3 of 4		

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dBm) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 (dB) N/A	DELTA2 (dB) N/A
3195.04	39.2 Pk	3.9 / 32.8 / 37.5	38.4	H / 1.1 / 350.0	N/A	N/A
2236.54	49.2 Pk	3.2 / 29.6 / 37.7	44.3	V / 1.1 / 28.0	N/A	N/A
1491.04	48.1 Pk	2.5 / 26.7 / 37.1	40.2	V / 1.4 / 1.0	N/A	N/A
1384.54	48.8 Pk	2.4 / 26.2 / 37.2	40.2	V / 1.7 / 351.0	N/A	N/A
1278.04	56.1 Pk	2.3 / 25.7 / 37.6	46.6	V / 1.0 / 176.0	N/A	N/A
1171.54	51.9 Pk	2.2 / 25.2 / 37.8	41.4	V / 1.0 / 347.0	N/A	N/A

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Radiated Electromagnetic Emissions

Test Report #:	B0379 Run 01	Test Area:	Pinewood Site 1 (3m)		
Test Method:	15.231	Test Date:	06-Nov-2000		
EUT Model #:	Health Sensor 100	EUT Power:	3 VDC		
EUT Serial #:	UM-E-319.5-001	Temperature:	18.6	°C	
Manufacturer:	HWI	Relative Humidity:	<18	%	
EUT Description:	Medical Alert Transmitter	Air Pressure:	79	kPa	
Notes:				Page:	4 of 4

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dBm) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 (dB) N/A	DELTA2 (dB) N/A
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***** MEASUREMENT SUMMARY *****						
319.51	70.8 Pk	1.0 / 14.0 / 0.0	85.8	H / 1.0 / 84.0	N/A	N/A
426.01	39.9 Pk	1.2 / 16.3 / 0.0	57.4	H / 2.3 / 279.0	N/A	N/A
532.51	41.1 Pk	1.4 / 17.8 / 0.0	60.3	H / 1.8 / 272.0	N/A	N/A
639.01	37.1 Pk	1.6 / 21.7 / 0.0	60.4	V / 1.0 / 0.0	N/A	N/A
958.51	26.8 Pk	2.0 / 24.3 / 0.0	53.1	V / 1.1 / 7.0	N/A	N/A
1171.52	54.2 Pk	2.2 / 25.2 / 37.8	43.8	H / 1.0 / 308.0	N/A	N/A
1278.04	56.1 Pk	2.3 / 25.7 / 37.6	46.6	V / 1.0 / 176.0	N/A	N/A
1384.54	48.8 Pk	2.4 / 26.2 / 37.2	40.2	V / 1.7 / 351.0	N/A	N/A
1491.02	51.5 Pk	2.5 / 26.7 / 37.1	43.5	H / 1.0 / 355.0	N/A	N/A
1597.52	53.5 Pk	2.6 / 27.0 / 37.3	45.8	H / 1.0 / 12.0	N/A	N/A
1704.02	54.0 Pk	2.7 / 27.4 / 37.6	46.5	H / 1.0 / 180.0	N/A	N/A
1810.52	55.2 Pk	2.8 / 27.8 / 37.6	48.2	H / 1.0 / 5.0	N/A	N/A
1917.02	49.9 Pk	2.9 / 28.1 / 37.6	43.3	H / 1.0 / 0.0	N/A	N/A
2023.52	60.1 Pk	3.0 / 28.5 / 37.4	54.2	H / 1.3 / 354.0	N/A	N/A
2130.02	62.4 Pk	3.1 / 29.1 / 37.6	56.9	H / 1.2 / 0.0	N/A	N/A
2236.52	56.8 Pk	3.2 / 29.6 / 37.7	51.9	H / 1.2 / 173.0	N/A	N/A
2343.04	53.1 Pk	3.3 / 30.1 / 37.7	48.8	H / 1.4 / 0.0	N/A	N/A
2449.54	50.6 Pk	3.4 / 30.6 / 37.8	46.9	H / 1.1 / 350.0	N/A	N/A
3195.04	39.2 Pk	3.9 / 32.8 / 37.5	38.4	H / 1.1 / 350.0	N/A	N/A

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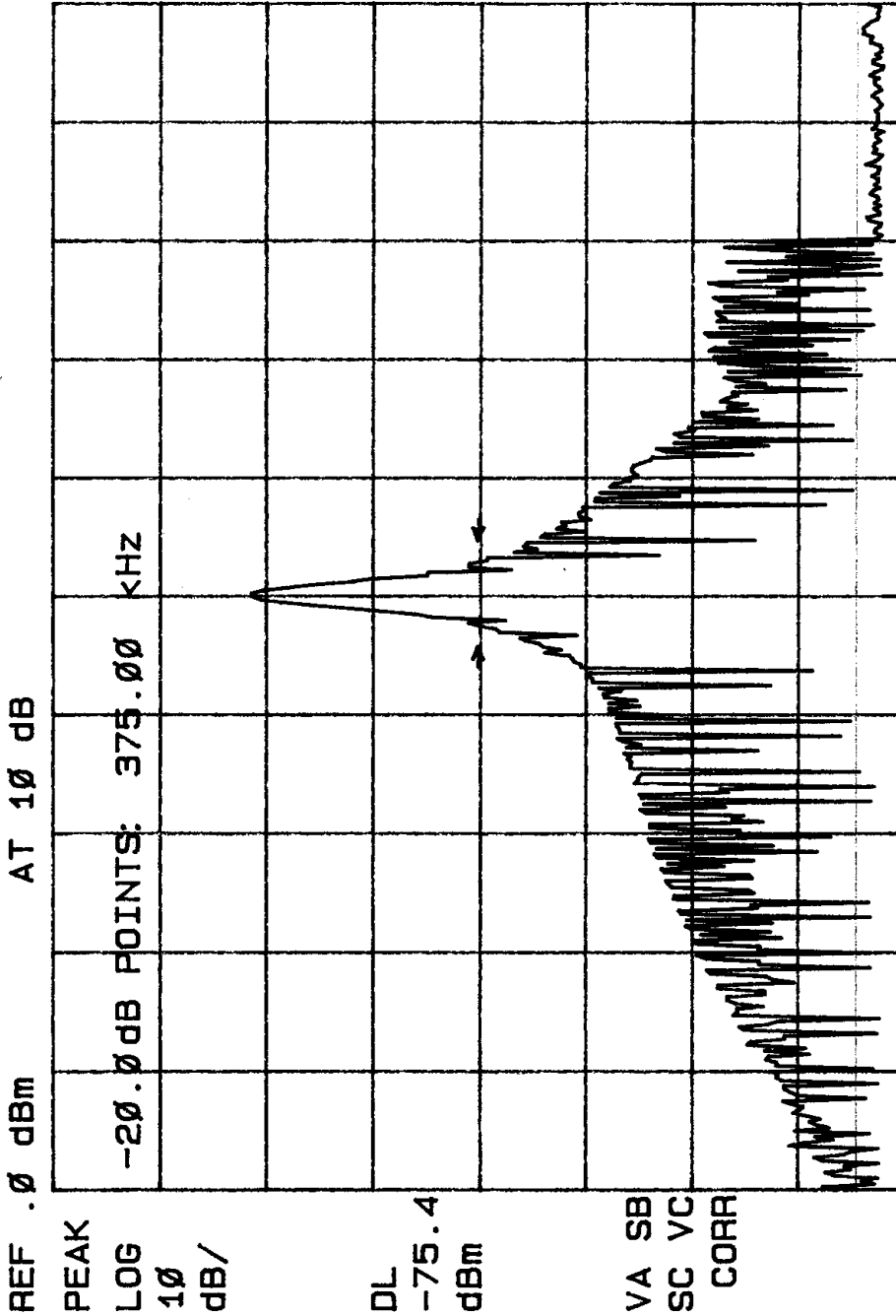
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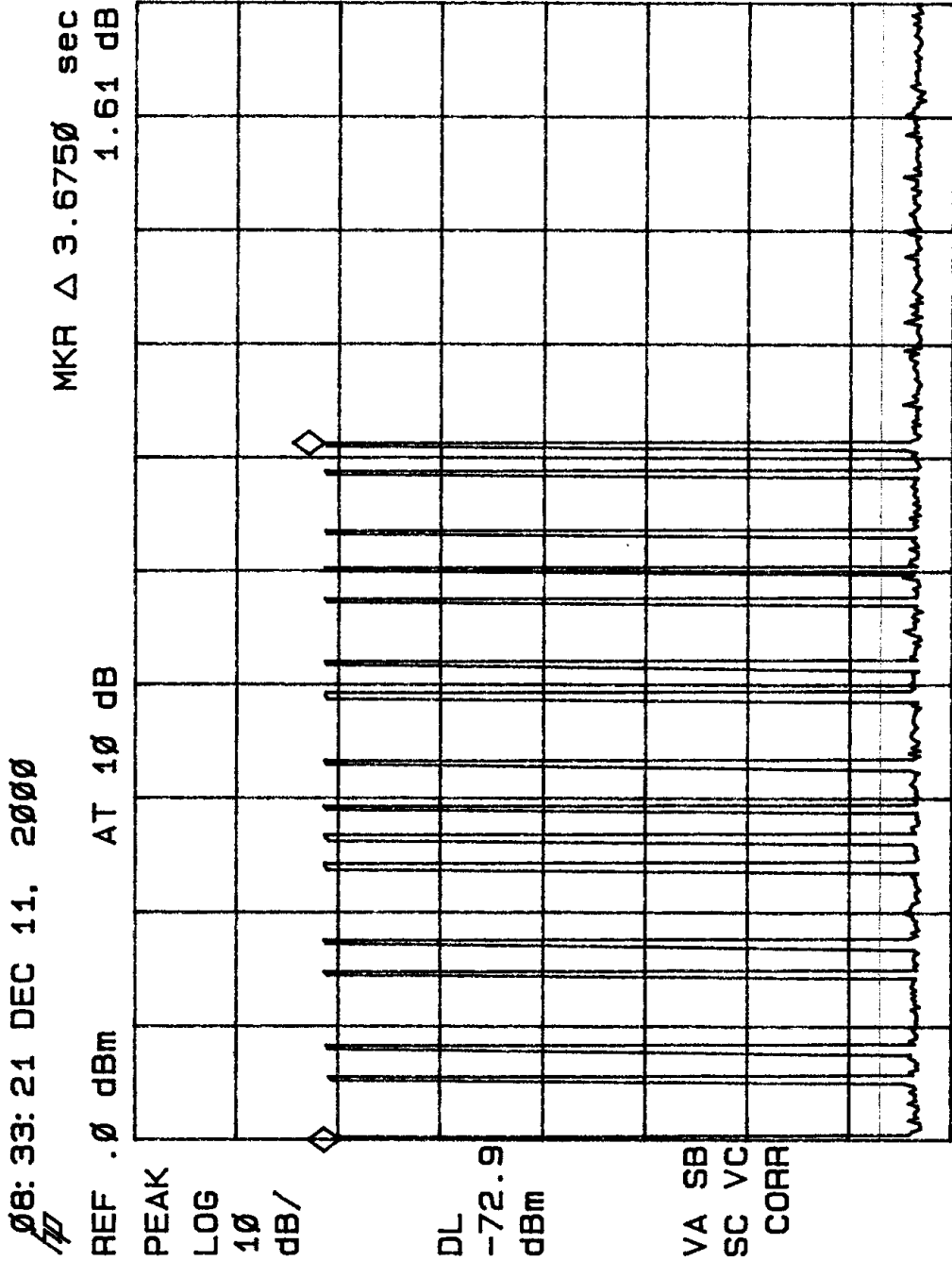
FCC Part 15, Para. 15.231(c) 20dB Bandwidth

Ø8: 15:53 DEC 11. 2000
~~170~~



CENTER 319.50 MHz SPAN 10.00 MHz
 #RES BW 100 kHz VBW 100 kHz SWP 20.0 msec

FCC PART 15, PARA. 15.231(a)(2) 5-Second deactivation



CENTER 319.500 MHz SPAN 0 Hz
 #RES BW 100 KHZ #SWP 6.00 sec
 VBW 100 KHZ

Appendix A

Test Setups
(Photographs)

See Test Setup Photo section.

Appendix B

Product Information Form(s)

General Equipment Description -- NOTE: This information will be input into your test report as shown below.			
EUT Description	Personal alarm transmitter for fall detect		
EUT Name	HealthSensor		
Model No.:	100	Serial No.:	--
Product Options:	--		
Configurations to be tested:	Normal		

Power Requirements			
<i>Regulations require testing to be performed at typical power ratings in the countries of intended use. (i.e., European power is typically 230 VAC 50 Hz or 400 VAC 50 Hz, single and three phase, respectively)</i>			
Voltage:	Battery (3VDC)	(If battery powered, make sure battery life is sufficient to complete testing.)	
# of Phases:	--		
Current (Amps/phase(max)):	--	Current (Amps/phase(nominal)):	--
Other	--		

Other Special Requirements	
--	

Typical Installation and/or Operating Environment	
(ie. Hospital, Small Business, Industrial/Factory, etc.)	
Home	

EUT Power Cable						
<input type="checkbox"/>	Permanent	OR	<input type="checkbox"/>	Removable	Length (in meters):	--
<input type="checkbox"/>	Shielded	OR	<input type="checkbox"/>	Unshielded		
<input checked="" type="checkbox"/>	Not Applicable					

EUT Interface Ports and Cables												
Interface				Shielding								
Type	Analog	Digital	Qty	Yes	No	Type	Termination	Connector Type	Port Termination	Length (in meters)	Removable	Permanent
EXAMPLE: RS232	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Foil over braid	Coaxial	Metallized 9-pin D-Sub	Characteristic Impedance	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
--	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>

EUT Software.	
Revision Level:	--
Description:	--

EUT Operating Modes to be Tested -- list the operating modes to be used during test. It is recommended the equipment be tested while operating in a typical operation mode. FCC testing of personal computers and/or peripherals requires that a simple program generate a complete line of upper case H's. Provide a general description of all software, firmware, and PLD algorithms used in the equipment. List all code modules as described above, with the revision level used during testing. Consult with your TÜV Product Service Representative if additional assistance is required.		
1.	In normal operation, the unit only transmits when a fall is detected. The unit then transmits a 10% duty cycle AM modulation code for ___ seconds.	
2.	The software for the FCC testing has been modified to transmit this code continuously.	

EUT System Components -- List and describe all components which are part of the EUT. For FCC testing a minimum configuration is required. (ie. Mouse, Printer, Monitor, External Disk Drive, Motherboard, etc.)			
Description	Model #	Serial #	FCC ID #
2"x2" Plastic cased module with self contained 3V battery power	100	--	NKM319

Support Equipment -- List and describe all support equipment which is not part of the EUT. (i.e. peripherals, simulators, etc)			
Description	Model #	Serial #	FCC ID #
319.5 MHz Receiver and phone dialer	--	--	--

Oscillator Frequencies			
<i>Frequency</i>	<i>Derived Frequency</i>	<i>Component # / Location</i>	<i>Description of Use</i>
106.5 MHz	319.5 MHz	Crystal Oscillator / X1	Main Tx freq. control
32.768 kHz	--	Crystal / X2	Microprocessor clock

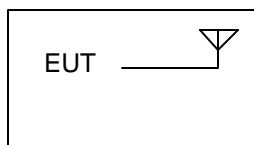
Power Supply				
<i>Manufacturer</i>	<i>Model #</i>	<i>Serial #</i>	<i>Type</i>	
--			<input type="checkbox"/> Switched-mode:	(Frequency)
			<input type="checkbox"/> Linear	<input checked="" type="checkbox"/> Other: 2 AAA Batteries

Power Line Filters		
<i>Manufacturer</i>	<i>Model #</i>	<i>Location in EUT</i>
--		

Critical EMI Components (Capacitors, ferrites, etc.)				
<i>Description</i>	<i>Manufacturer</i>	<i>Part # or Value</i>	<i>Qty</i>	<i>Component # / Location</i>
Antenna	HWI	--	1	Circumference of PCB

EMC Critical Detail -- Describe other EMC Design details used to reduce high frequency noise.	
--	

Block Diagram



Appendix C

Change History

Not Applicable

Appendix D

Supplemental Information

Not Applicable