TÜV PRODUCT SERVICE

TEST RESULT SUMMARY

UNITED STATES STANDARD 47 CFR PART 15, SUBPART B

MANUFACTURER NAME	DIRECTED ELECTRONICS, INC.
NAME OF EQUIPMENT	449 Module*
MODEL NUMBER	449
MANUFACTURER ADDRESS	2560 Progress Street Vista, CA 92083
TEST REPORT NUMBER	S8331-06
TEST DATE	02 July 1998

According to testing performed at TÜV Product Service, Inc., the above-mentioned unit is in compliance with the electromagnetic compatibility requirements defined in United States Standard 47 CFR Part 15, Subpart B, Paragraphs 15.107(a) and 15.109(a).

TÜV Product Service reports apply only to the specific sample tested under stated test conditions. It is the manufacturer's responsibility to assure the continued compliance of production units of this model. TÜV Product Service, Inc. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV Product Service, Inc. issued reports.

As the responsible EMC Project/Division Managers, we hereby declare that the equipment tested at TÜV Product Service, Inc. as specified above conforms to the requirements of United States Standard 47 CFR Part 15, Radio Frequency Devices, Subpart B, Unintentional Radiators.

Date: 02 July 1998

Location: San Diego, California USA

for Jim Owen
Responsible Engineer

Floyd R. Fleury
EMC Manager, EIC

(*) FCC ID: EZSDEI449

Not Transferable

TÜV PRODUCT SERVICE

EMC EMISSION - TEST REPORT
UNITED STATES STANDARD 47 CFR PART 15, SUBPART B

Test Report File No.	: **S8331-06**	Date of Issue:	02 July 1998
Model / Serial No.	: **449 / Sample #2**		
Product Type	: 449 Module*		
Applicant	: DIRECTED ELECTRONICS, INC.		
Manufacturer	: DIRECTED ELECTRONICS, INC.		
License holder	: DIRECTED ELECTRONICS, INC.		
Address	: 2560 Progress Street		
	: Vista, CA 92083		
Test Result	: ■ **Positive**	□ **Negative**	
Test Project Number Reference(s)	: **S201833101-06**		
Total pages - Test Report	: 12		

(*) FCC ID: EZSDEI449

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DIRECTORY - EMISSIONS
Test Report

Technical Documentation

Appendices

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EMISSIONS TEST REGULATIONS :

The emissions tests were performed according to the following regulations:

☐ - EN 50081-1 / 1991

☐ - EN 55011 / 1991 ☐ - Group 1 ☐ - Group 2
☐ - Class A ☐ - Class B

☐ - EN 55013 / 1990

☐ - EN 55014 / 1987 ☐ - Household appliances and similar
☐ - Portable tools
☐ - Semiconductor devices

☐ - EN 55014 / A2:1990

☐ - EN 55014 / 1993 ☐ - Household appliances and similar
☐ - Portable tools
☐ - Semiconductor devices

☐ - EN 55015 / 1987
☐ - EN 55015 / A1:1990
☐ - EN 55015 / 1993

☐ - EN 55022 / 1987 ☐ - Class A ☐ - Class B

☐ - EN 55022 / 1994 ☐ - Class A ☐ - Class B

☐ - BS
☐ - VCCI ☐ - Class A ITE ☐ - Class B ITE

■ - 47 CFR Part 15, Subpart B

☐ - 107(b)
■ - 107(a)
☐ - 107(e) ☐ - Class A ☐ - Class B

☐ - 109(b)
■ - 109(a)
☐ - 109(g) ☐ - Class A ☐ - Class B

☐ - AS/NZS 3548: 1995 ☐ - Class A ☐ - Class B

☐ - CISPR 11 (1990) ☐ - Group 1 ☐ - Group 2
☐ - Class A ☐ - Class B

☐ - CISPR 22 (1993) ☐ - Class A ☐ - Class B

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Environmental Conditions In The Laboratory:

	Actual
Temperature:	: 23 °C
Relative Humidity:	: 50 %
Atmospheric Pressure:	: 100.0 kPa

Power Supply Utilized:

Power supply system : Battery

Symbol Definitions:

■ - Applicable
☐ - Not Applicable

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Emissions Test Conditions: CONDUCTED EMISSIONS (Interference Voltage)

The *CONDUCTED EMISSIONS (INTERFERENCE VOLTAGE)* measurements were performed at the following test location:

■ - Test not performed - see remarks

☐ - SR-2, Shielded Room, 12' x 24' x 10', Metal Chamber
☐ - SR-3, Shielded Room, 12' x 20' x 8', Metal Chamber
☐ - SR-4, Shielded Room, 10' x 17' x 8', Copper Screen Chamber
☐ - SR-5, Shielded Room, 16' x 28' x 15', Metal, Semi-Anechoic Chamber
☐ - CSR-1, Shielded Room, 10' x 7' x 7', Metal Chamber

Test Equipment Used :

	Model No.	Prop. No.	Description	Manufacturer	Serial No.
☐ -	NM-7A, NM-17/27, NM-37/57, NM-67, CCA-7, & H/P 9836 HP-1B Computer	156, 162-166	Automated RFI Measurement System (ARMS), NO. 1	Eaton/Ailtech	(multiple)
☐ -	NM-17/27, NM-37/57, CA-7, and H/P 9826 Computer	168, 170, 177, 178	Automated RFI Measurement System (ARMS), NO. 2	Eaton/Ailtech	(multiple)
☐ -	H/P Spectrum Analyzer, Model 8568B; Display Section RF Analyzer Section; H/P 85650A, Quasi-Peak Adapter H/P Computer System, Model 310 with HP 85869A Software	187, 188	Automated RFI Measurement System (ARMS)	Various	(multiple)
☐ -	LISN-3, 50 A	262-263	Power Mains Network (LISN), 50 µH/250 µH/50 Ω/0.25 µF	Fischer Custom Communications, Inc.	3-4
☐ -	LISN-3, 50 A	264, 265	Power Mains Network (LISN), 50 µH/250 µH/50 Ω/0.25 µF	Fischer Custom Communications, Inc.	5-6
☐ -	LISN-2, 25 A	413	Power Mains Network (LISN), 50 µH/250 µH/50 Ω/0.25 µF	Fischer Custom Communications, Inc.	7
☐ -	LISN-2, 25 A	--	Power Mains Network (LISN), 50 µH/250 µH/50 Ω/0.25 µF	Fischer Custom Communications, Inc.	7
☐ -	FCC-LISN-50-25-2	553	Power Mains Network (LISN), 50 µH/250 µH/50 Ω/0.25 µF	Fischer Custom Communications, Inc.	112
☐ -	FCC-LISN-50-25-2	552	Power Mains Network (LISN), 50 µH/250 µH/50 Ω/0.25 µF	Fischer Custom Communications, Inc.	113
☐ -	8012-50-R-12-BNC	266	LISN, 50 µH/50 Ω/0.1 µF	Solar Electronics Co.	--
☐ -	9252-50-R-24-BNC	458	LISN, 50 µH /250 µH/50 Ω/ 0.25 µF	Solar Electronics Co.	941719
☐ -	9252-50-R-24-BNC	457	LISN, 50 µH /250 µH/50 Ω/ 0.25 µF	Solar Electronics Co.	941720
☐ -	MDS-21	277	Absorbing Clamp	Rohde & Schwarz	821023
☐ -	ESHS 20	428	EMI Test Receiver	Rohde & Schwarz	837055/001
☐ -	ESHS 30	459	EMI Test Receiver	Rohde & Schwarz	832354/004
☐ -	CAT-20	598	20 dB Attenuator	Mini-Circuits	--
☐ -	CAT-20	615	20 dB Attenuator	Mini-Circuits	--

Remarks: EUT battery operated.

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Emissions Test Conditions: RADIATED EMISSIONS (Magnetic Field)

The *RADIATED EMISSIONS (MAGNETIC FIELD)* measurements were performed at the following test location:

■ - Test not applicable

☐ - SR-2, Shielded Room, 12' x 24' x 10', Metal Chamber
☐ - SR-3, Shielded Room, 12' x 20' x 8', Metal Chamber
☐ - SR-4, Shielded Room, 10' x 17' x 8', Copper Screen Chamber
☐ - SR-5, Shielded Room, 16' x 28' x 15', Metal, Semi-Anechoic Chamber
☐ - TR-1, Shielded Room, 16.5' x 10' x 7.5', Copper Screen Chamber
☐ - CSR-1, Shielded Room, 10' x 7' x 7', Metal Chamber

Testing was performed at a test distance of :

☐ - 3 meters
☐ - 30 meters

NOT APPLICABLE

Test Equipment Used :

	Model No.	Prop. No.	Description	Manufacturer	Serial No.
☐ -	NM-7A, NM-17/27, NM-37/57, NM-67, CCA-7, & H/P 9836 HP-1B Computer	156, 162-166	Automated RFI Measurement System (ARMS), NO. 1	Eaton/Ailtech	(multiple)
☐ -	NM-17/27, NM-37/57, CA-7, & H/P 9836 Computer	168, 170, 177, 178	Automated RFI Measurement System (ARMS), NO. 2	Eaton/Ailtech	(multiple)
☐ -	AT-205/URM-6	201	Loop Antenna	Eaton/Ailtech	64090
☐ -	94593-1	205	Loop Antenna	Eaton/Ailtech	0264

Remarks: _____

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Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The *RADIATED EMISSIONS (ELECTRIC FIELD)* measurements, in the frequency range of 30 MHz-1000 MHz, were tested in a horizontal and vertical polarization at the following test location :

☐ - Test not applicable

☐ - Roof (Small Open Area Test Site)
☐ - Canyon #1 (10- and 30-Meter Open Area Test Site), Carroll Canyon, San Diego
■ - Canyon #2 (3- and 10-Meter Open Area Test Site), Carroll Canyon, San Diego

Testing was performed at a test distance of :

■ - 3 meters
☐ - 10 meters
☐ - 30 meters

Test Equipment Used :

	Model No.	Prop. No.	Description	Manufacturer	Serial No.
☐ -	NM-37/57A	420	OATS measurement set (Roof)	Eaton/Ailtech	0561-09261
	CCA-7	373			0773-03117
☐ -	NM-37/57	171	OATS measurement set (Canyon)	Eaton/Ailtech	0709-82078
	CCA-7	172			0187-0322
☐ -	HFH 2-Z2	208	Antenna, Loop	Rohde & Schwarz	880
☐ -	3104	235	Antenna, Biconical	EMCO	3031
☐ -	3110	451	Antenna, Biconical	EMCO	1378
☐ -	94455-1	231	Antenna, Biconical	Eaton/Ailtech	0811
■ -	3110B	491	Antenna, Biconical	EMCO	9508-2
☐ -	CBL6111	460	Antenna, Bilog	Chase	1013
☐ -	CBL6111	461	Antenna, Bilog	Chase	1291
☐ -	3146	242	Antenna, Log Periodic Dipole	EMCO	1597
☐ -	3146	243	Antenna, Log Periodic Dipole	EMCO	106X
■ -	3146	244	Antenna, Log Periodic Dipole	EMCO	1063
☐ -	7405	570	Loop Probes	EMCO	9104-1959
☐ -	8566B	404	Spectrum Analyzer	Hewlett Packard	2311A02209
☐ -	85662B	406	Spectrum Analyzer Display	Hewlett Packard	2309A04682
☐ -	ESVS 30	427	EMI Test Receiver	Rohde & Schwarz	830350/006
■ -	ESVS 30	466	EMI Test Receiver	Rohde & Schwarz	833825/003

Remarks: _____

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Emissions Test Conditions: INTERFERENCE POWER

The *INTERFERENCE POWER* measurements were performed by using the absorbing clamp on the mains and interface cables in the frequency range 30 MHz - 300 MHz at the following test location :

■ - Test not applicable

☐ - SR-2, Shielded Room, 12' x 24' x 10', Metal Chamber
☐ - SR-3, Shielded Room, 12' x 20' x 8', Metal Chamber
☐ - SR-4, Shielded Room, 10' x 17' x 8', Copper Screen Chamber
☐ - SR-5, Shielded Room, 16' x 28' x 15', Metal, Semi-Anechoic Chamber
☐ - CSR-1, Shielded Room, 10' x 7' x 7', Metal Chamber

Test Equipment Used :

	Model No.	Prop. No.	Description	Manufacturer	Serial No.
☐ -	MDS-21	277	Absorbing Clamp	Rohde & Schwarz	821023
☐ -	NM-7A, NM-17/27, NM-37/57, NM-67, CCA-7, & H/P 9836 HP-1B Computer	156, 162-166	Automated RFI Measurement System (ARMS), NO. 1	Eaton/Ailtech	(multiple)
☐ -	NM-17/27, NM-37/57, CA-7, & H/P 9826 Computer	168, 170, 177, 178	Automated RFI Measurement System (ARMS), NO. 2	Eaton/Ailtech	(multiple)
☐ -	H/P Spectrum Analyzer, Model 8568B Display Section RF Analyzer Section, H/P 85650A, Quasi-Peak Adapter H/P Computer System, Model 310 with HP 85869A Software	187, 188	Automated RFI Measurement System (ARMS)	Hewlett Packard	2304A04531 2304A02500 2811A01325
☐ -	ESVS 30	427	EMI Test Receiver	Rohde & Schwarz	830350/006
☐ -	ESVS 30	466	EMI Test Receiver	Rohde & Schwarz	830350/003

NOT APPLICABLE

Remarks: _____

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Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The *EQUIVALENT RADIATED EMISSIONS* measurements in the frequency range 1 GHz - 18 GHz were performed in a horizontal and vertical polarization at the following test location :

■ - Test not applicable

☐ - Roof (Small Open Area Test Site)
☐ - Canyon #1 (10- and 30-Meter Open Area Test Site), Carroll Canyon, San Diego
☐ - Canyon #2 (3- and 10-Meter Open Area Test Site), Carroll Canyon, San Diego

Testing was performed at a test distance of:

☐ - 1 meters
☐ - 3 meters
☐ - 10 meters

Test Equipment Used :

	Model No.	Prop. No.	Description	Manufacturer	Serial No.
☐ -	8566B	407	Spectrum Analyzer	Hewlett Packard	2311A02209
☐ -	85662B	406	Spectrum Analyzer Display	Hewlett Packard	2309A04682
☐ -	3115	453	Antenna, Double Ridge Guide	EMCO	9412-4363
☐ -	3115	251	Antenna, Double Ridge Guide	EMCO	2495
☐ -	AFD3-0102-13-ST	366	Pre-Amplifier (38 dB gain), 1 to 2 GHz	Miteq, Inc.	16429
☐ -	AFD3-0208-40-ST	367	Pre-Amplifier (30 dB gain), 2 to 8 GHz	Miteq, Inc.	155382
☐ -	AFS4-08001800-70-10P-4	368	Pre-Amplifier (22 dB gain), 8 to 18 GHz	Miteq, Inc.	167
☐ -	91888-2	252	Horn Antenna (1 to 2 GHz)	Eaton	101
☐ -	91889-2	253	Horn Antenna (2 to 3.6 GHz)	Eaton	101
☐ -	91892-1	254	Reflector Antenna (3.6 to 18 GHz)	Eaton	--
☐ -	94613-1	255	Horn Antenna (3.6 to 7.6 GHz)	Eaton	--
☐ -	91891-2	256	Horn Antenna (7.3 to 12 GHz)	Eaton	--
☐ -	94614-1	257	Horn Antenna (12 to 18 GHz)	Eaton	--

Remarks: No emissions detected at 0.5 meter distance above 1 GHz.

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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

■ - Normal with receive signal present

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:

■ - Power Supply	Type : Hewlett Packard, Model E3611A
■ - Signal Generator	Type : Hewlett Packard, Model 8648C, ID 573
☐ -	Type :
☐ -	Type :
☐ -	Type :
☐ -	Type :
☐ -	Type :
☐ -	Type :

■ - unshielded power cable

■ - unshielded cables

☐ - shielded cables MPS.No.:

☐ - customer specific cables

☐ -

☐ -

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Emissions Test Results:

Conducted Emissions, 10/150/450 kHz - 30 MHz

☐ - PASS ☐ - FAIL ■ - NOT APPLICABLE

Minimum limit margin _____ dB at _____ MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: EUT battery operated.

Radiated Emissions (Magnetic Field), 10 kHz - 30 MHz

☐ - PASS ☐ - FAIL ■ - NOT APPLICABLE

Minimum limit margin _____ dB at _____ MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: _____

Radiated Emissions (Electric Field), 30 MHz - 1000 MHz

■ - PASS ☐ - FAIL ☐ - NOT APPLICABLE

Minimum limit margin 2.6 dB at 433 MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: _____

Interference Power at the Mains and Interface Cables, 30 MHz - 300 MHz

☐ - PASS ☐ - FAIL ■ - NOT APPLICABLE

Minimum limit margin _____ dB at _____ MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: _____

Equivalent Radiated Emissions, 1 GHz - 18 GHz

☐ - PASS ☐ - FAIL ■ - NOT APPLICABLE

Minimum limit margin _____ dB at _____ MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: No emissions detected at 0.5 meter distance above 1 GHz.

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GENERAL REMARKS:

FCC ID: EZSDEI449
(*) Conducted Emissions - EUT battery operated.
Radiated Emissions, Electric Field - No emissions detected at 0.5 meter distance above 1 GHz.

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. There may be some degree or level of measurement uncertainty. As EN 45001 does not allow recommendations to be included in the test report, the reader is encouraged to request a copy of the TÜV policy concerning pass or fail judgment with respect to possible measurement uncertainties.

Equipment Received Date: 02 July 1998

Testing Start Date: 02 July 1998

Testing End Date: 02 July 1998

- TÜV PRODUCT SERVICE, INC. -

Responsible Engineer:

for Jim Owen
(EMC Engineer)

Responsible Test Engineer:

Dave Bernardin
(Senior EMC Engineer)

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TÜV PRODUCT SERVICE

Technical Documentation

Test Data Sheets

and

Test Setup Drawing(s)

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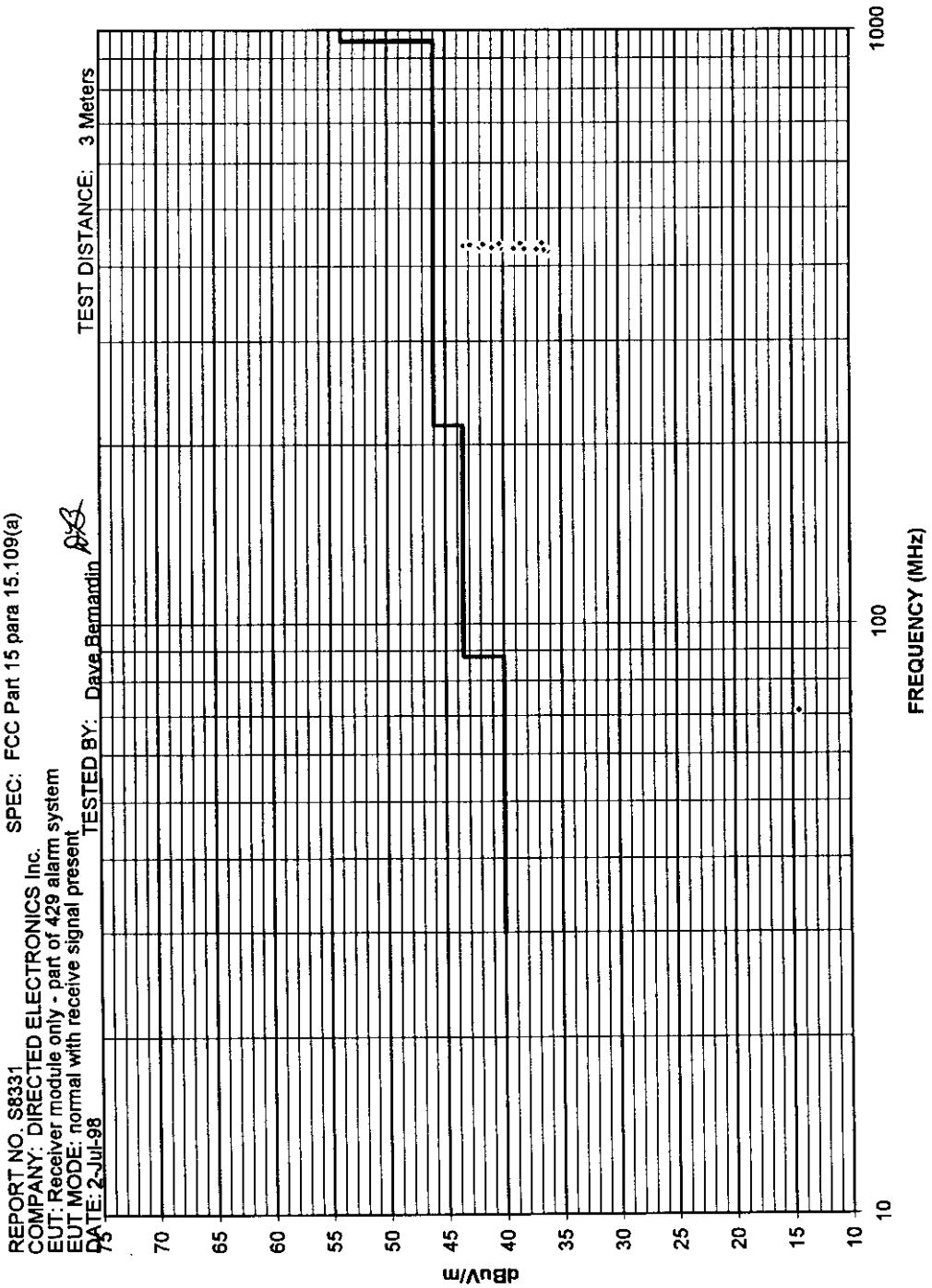

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REPORT No: S8331 SPEC: FCC Part 15 para 15.109(a)

CUSTOMER: DIRECTED ELECTRONICS Inc. TEST DIST: 3 Meters

E U T: Receiver module only - part of 429 alarm system TEST SITE: 2

EUT MODE: normal with receive signal present BICONICAL: 491

DATE: 2-Jul-98 TESTED BY: Dave Bernardin LOG PERIODIC: 244

NOTES: Quasi-Peak with 120 KHz measurement bandwidth. RCVR:

EUT MARGIN -2.6 dB at 433 MHz ver 1.6

FREQUENCY (MHz)	VERTICAL measured (dBuv)	HORIZONTAL measured (dBuV)	CORRECTION FACTOR (dB/m)	MAXIMUM CORRECTED (dBuV/m)	SPECIFIED LIMIT (dBuV/m)	EUT MARGIN (dB)	EUT ROTATION (degrees)	ANTENNA HEIGHT (meters)
71.10	3.5	-1.4	11.0	14.5	40	-25.5	0	1
423.17	11	14	22.0	36.0	46	-10.0	225	1
424.06	11	14	22.1	36.1	46	-9.9	225	1
424.67	11	14	22.1	36.1	46	-9.9	225	1
425.85	11.2	14.3	22.2	36.5	46	-9.5	225	1
426.76	11.4	14.9	22.2	37.1	46	-8.9	225	1
427.65	12	15.9	22.2	38.1	46	-7.9	225	1
428.54	12.7	16.8	22.3	39.1	46	-6.9	225	1
429.43	13.7	17.9	22.3	40.2	46	-5.8	225	1
430.33	14.7	18.6	22.4	41.0	46	-5.0	45	1
431.23	15.4	19.6	22.4	42.0	46	-4.0	45	1
432.13	16.6	20.3	22.4	42.7	46	-3.3	45	1
433.00	17	20.9	22.5	43.4	46	-2.6	45	1
434.82	16.2	20.3	22.6	42.9	46	-3.1	225	1
435.71	15	19.1	22.6	41.7	46	-4.3	225	1
436.60	13.5	17.7	22.6	40.3	46	-5.7	225	1
437.49	11.8	15.8	22.7	38.5	46	-7.5	225	1
438.38	9.8	13.9	22.7	36.6	46	-9.4	225	1

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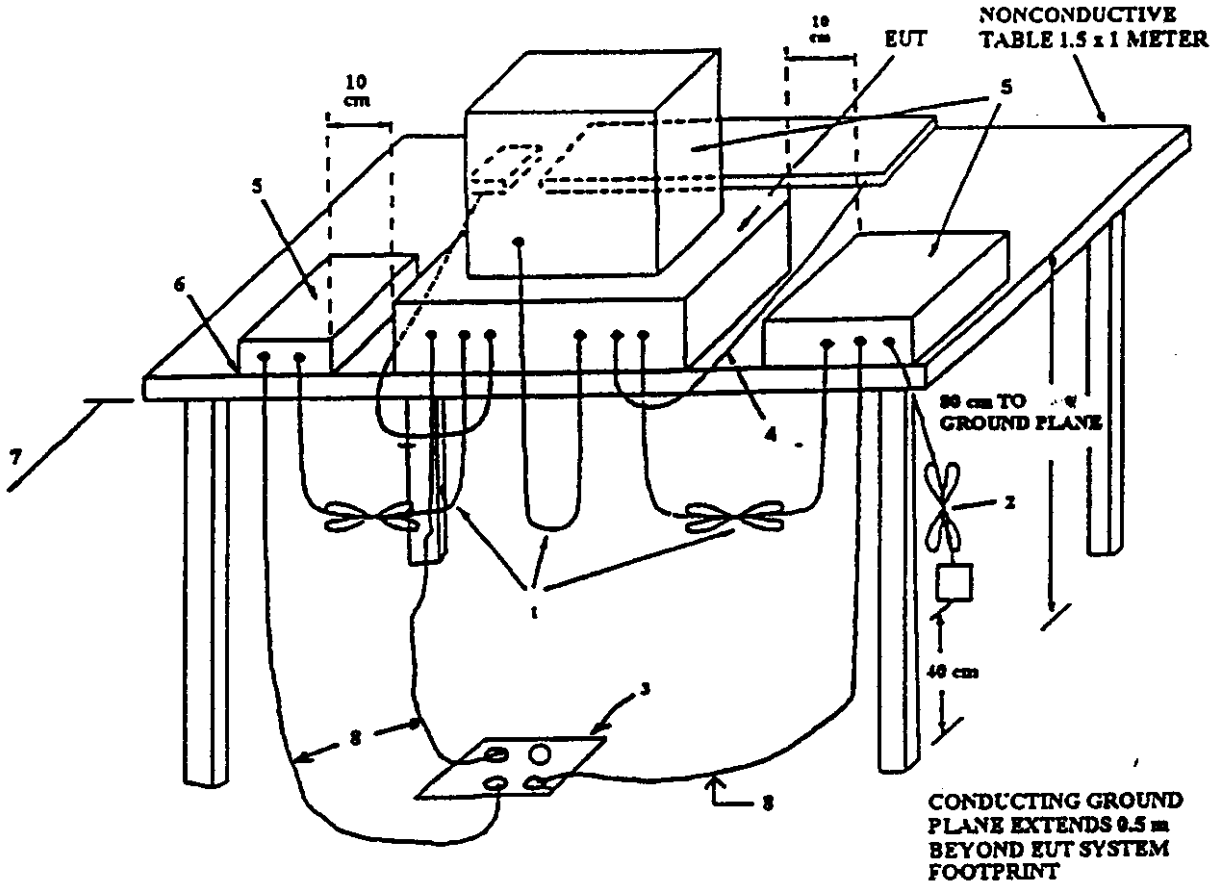
Radiated Emission Test Setup, 30 to 1,000 MHz



LEGEND:

1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between ground plane and table.
2. I/O cables that are connected to a peripheral shall be bundled in center. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.
3. If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground plane with the receptacle flush with the ground plane.
4. Cables of hand-operated devices, such as keyboards, mouses, etc., have to be placed as close as possible to the controller.
5. Non-EUT components of EUT system being tested.
6. The rear of all components of the system under test shall be located flush with the rear of the table.
7. No vertical conducting wall used.
8. Power cords drape to the floor and are routed over to receptacle.

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