TÜV PRODUCT SERVICE

TEST RESULT SUMMARY

UNITED STATES STANDARD 47 CFR PART 15, SUBPART C

MANUFACTURER NAME	DIRECTED ELECTRONICS, INC.
NAME OF EQUIPMENT	476 Transmitter*
MODEL NUMBER	476
MANUFACTURER ADDRESS	2560 Progress Street Vista, CA 92083
TEST REPORT NUMBER	S8472-06
TEST DATE	15 September 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 C, Paragraphs 15.207(a) and 15.209(a), 15.231(a)(1), (b), (c).

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 C, Intentional Radiators.

Date: 18 September 1998

Mary Washington F R Fleury

Location: San Diego, California USA

Mary Washington
Responsible Engineer

Floyd R. Fleury
EMC Manager, EIC

(*) FCC ID: EZSDEI470

TÜV PRODUCT SERVICE

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

Test Report File No.	:	**S8472-06**	Date of Issue:	18 September 1998
Model / Serial No.	:	**476 / EZSDEI476**		
Product Type	:	476 Transmitter*		
Applicant	:	DIRECTED ELECTRONICS, INC.		
Manufacturer	:	----		
License holder	:	DIRECTED ELECTRONICS, INC.		
Address	:	2560 Progress Street		
	:	Vista, CA 92083		
Test Result	:	■ **Positive**	☐ **Negative**	
Test Project Number Reference(s)	:	**S901847201-06**		
Total pages - Test Report	:	10		

(*) FCC ID: EZSDEI476

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TÜV PRODUCT SERVICE

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 / 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

■ - 47 CFR Part 15, Subpart C

■ - 207(a)
■ - 209(a)
■ - 231(b)
■ - 231(a)(1)
■ - 231(c)

☐ - 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 (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 performed - see remarks

☐ - 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: Prescan in shielded room detected no measurable emissions from 30 MHz - 1 GHz.

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Emissions Test Conditions: RADIATED EMISSIONS (FCC Part 15, 15.231)

The *EQUIVALENT RADIATED EMISSIONS* measurements were performed 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.	Cal Date
■ -	8566	407	Spectrum Analyzer	Hewlett Packard	2311A02209	31 Oct 98
■ -	85662B	406	Spectrum Analyzer Display	Hewlett Packard	2309A04682	09 Mar 99
■ -	3115	251	Antenna, Double Ridge Guide	EMCO	2495	01 Oct 98
■ -	3146	243	Antenna, Log Periodic Dipole	EMCO	106Z	26 Sep 98
■ -	AFD3-0208-40-ST	367	Pre-amplifier, 2 - 8 GHz	Miteq, Inc.	155382	07 Apr 99
■ -	ZJL-3G	469	Pre-amplifier, 1 - 2 GHz	MiniCircuits	--	07 Apr 99

Remarks: _____

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Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The *EQUIVALENT RADIATED EMISSIONS* measurements in the frequency range 1 GHz - 5 GHz were performed in a horizontal and vertical polarization at the following test location :

■ - Test not performed - see remarks

☐ - 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: Pre-scan detected no measurable emissions from 1 to 5 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

■ - Transmit

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:

☐ - _____ Type : _____

☐ - _____ Type : _____

☐ - _____ 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 (Electric Field), 30 MHz - 5 GHz

■ - PASS ☐ - FAIL ☐ - NOT APPLICABLE

Minimum limit margin _____ dB at _____ MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: Pre-scan in shielded room detected no measurable emissions from 30 MHz - 1 GHz.

Equivalent Radiated Emissions 15.231(b)

■ - PASS ☐ - FAIL ☐ - NOT APPLICABLE

Minimum limit margin 3.8 dB at 433.9 MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: _____

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GENERAL REMARKS:

(*) Conducted Emissions - EUT battery operated.
Radiated Emissions - Pre-scan in shielded room detected no measurable emissions from 30 MHz - 1 GHz.
Pre-scan detected no measurable emissions from 1 to 5 GHz.
Part 15, Paragraph 15.231(a)(1) - Transmitter deactivated in less than one second.
For Duty Cycle see Appendix D.

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: 15 September 1998

Testing Start Date: 15 September 1998

Testing End Date: 15 September 1998

- TÜV PRODUCT SERVICE, INC. -

Responsible Engineer:

Mary Washington

Mary Washington
(EMC Engineer)

Responsible Test Engineer:

D Marshall

Dave Marshall
(EMC Test Engineer)

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Technical Documentation

Test Data Sheets

and

Test Setup Drawing(s)

(See photographs for test setups.)

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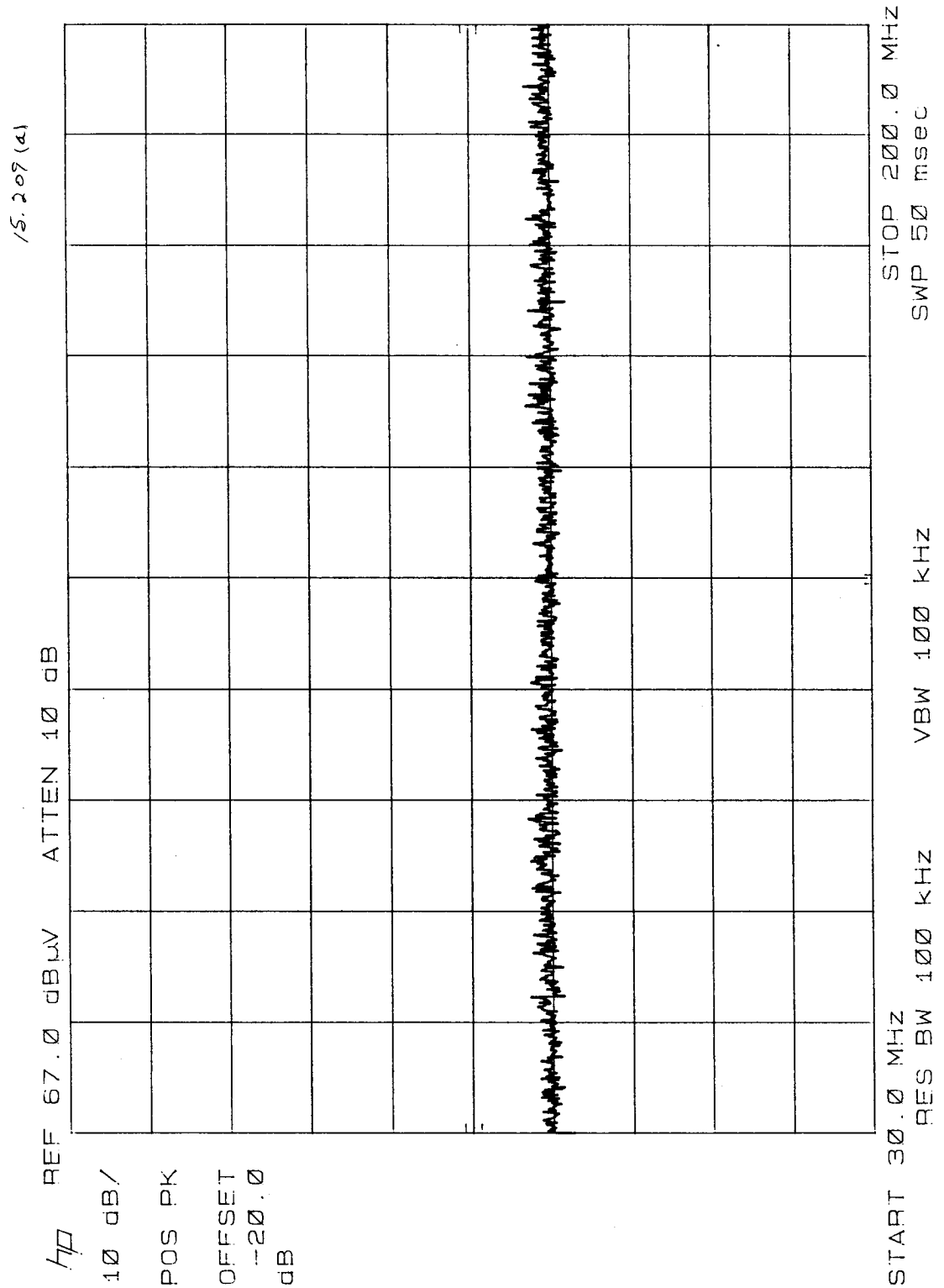

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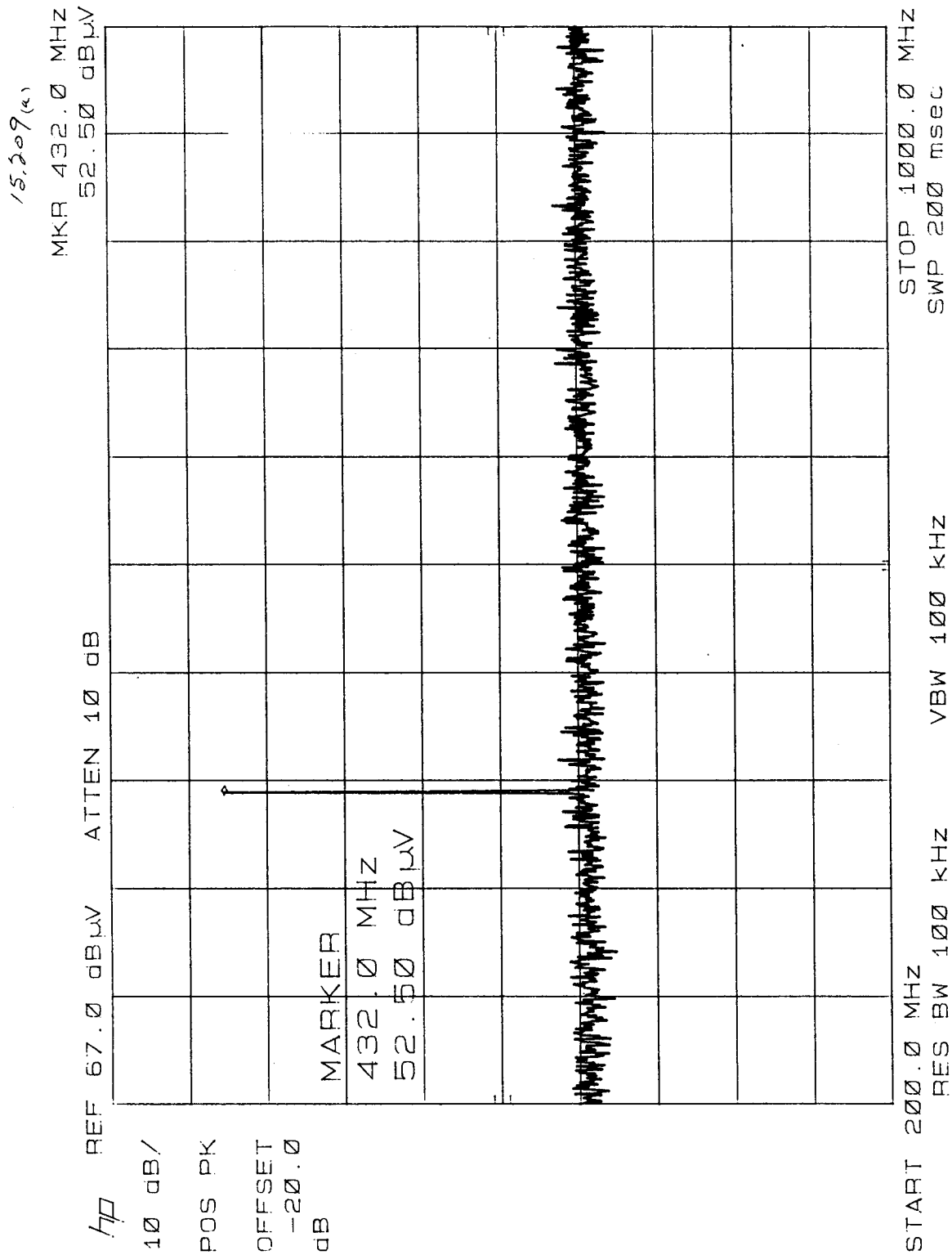

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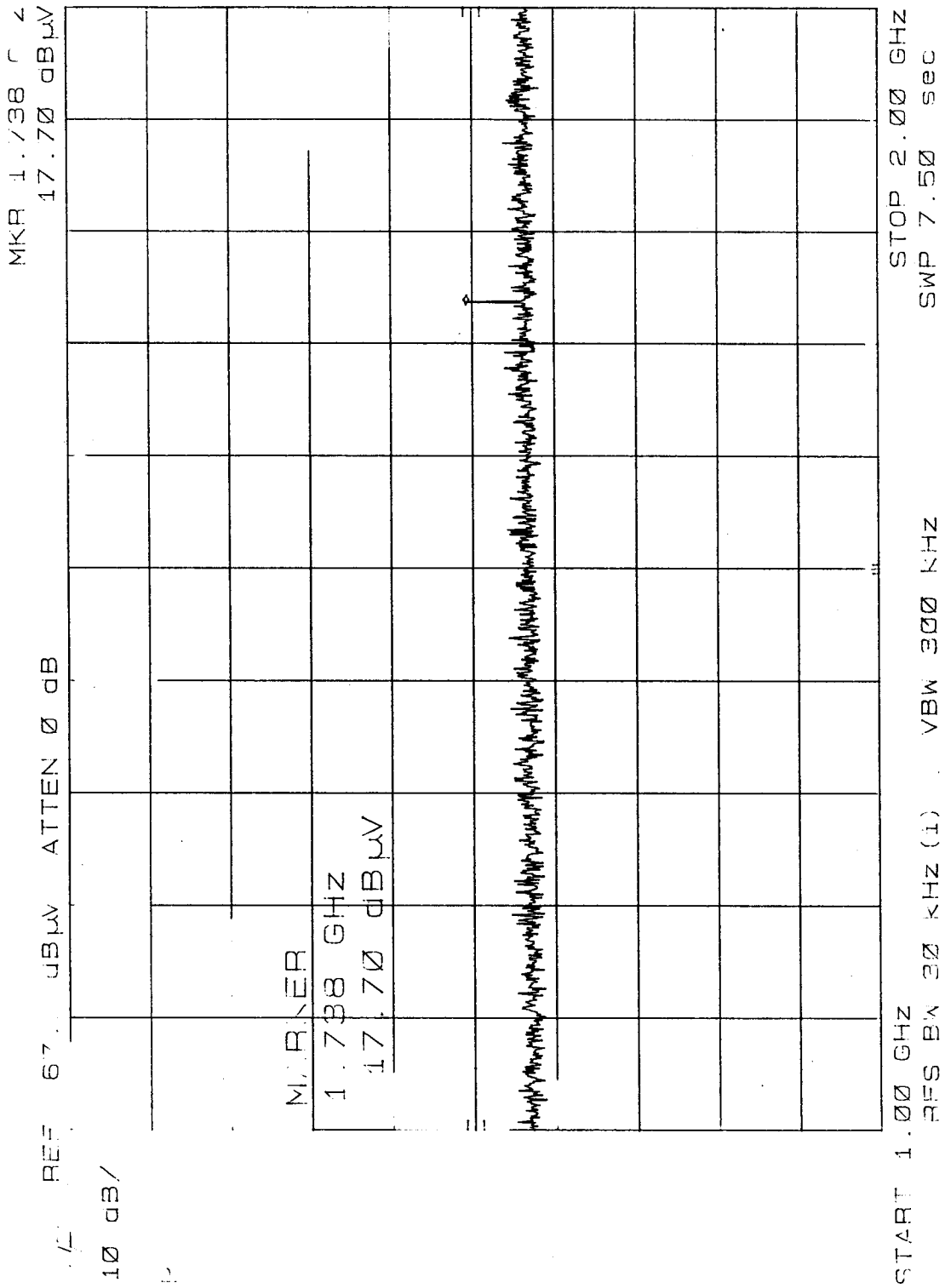
15.209(a)



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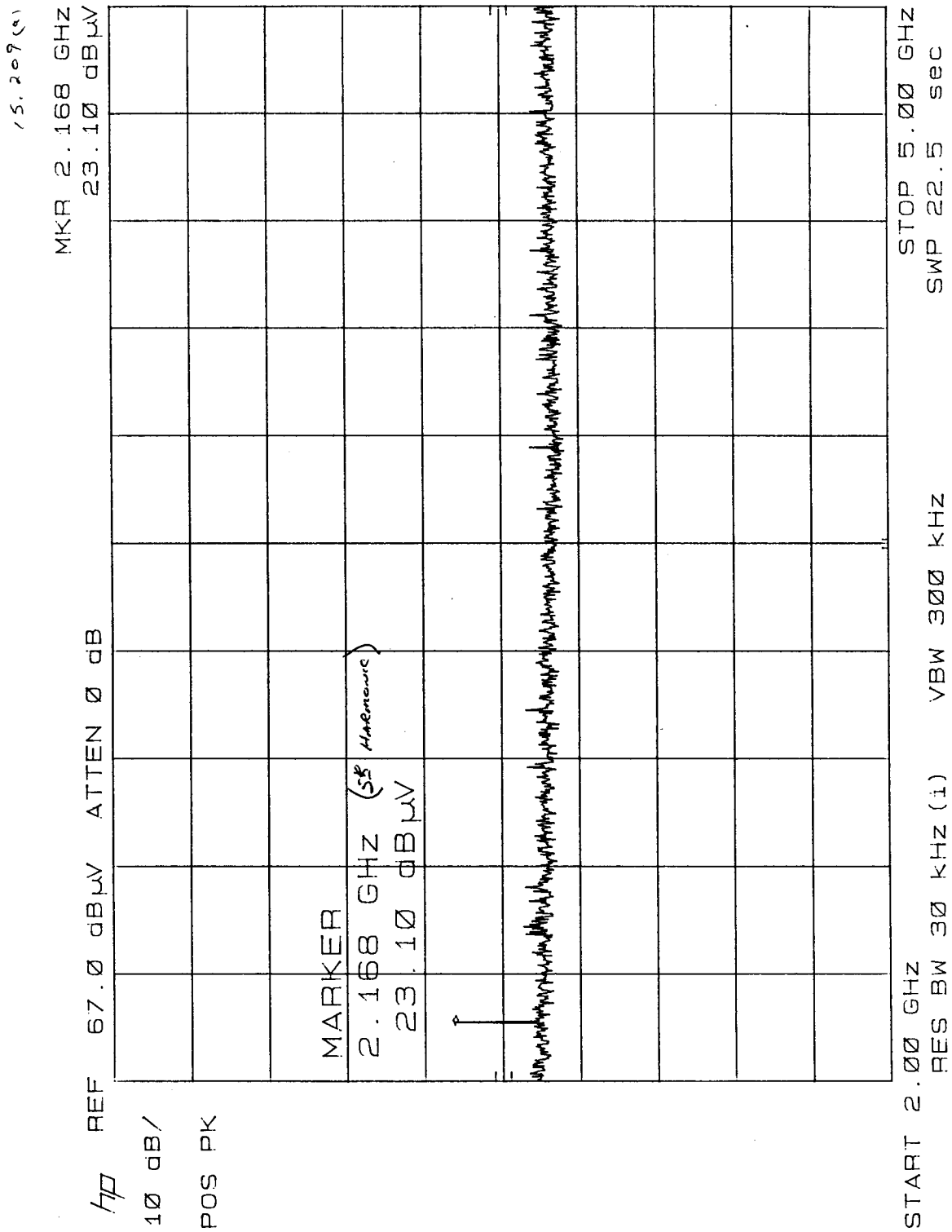

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TÜV PRODUCT SERVICE

REPORT No: S-8472 TESTED BY: SPEC: FCC Part 15 para 15.231(b)

CUSTOMER: Directed Electronics Inc. TEST DIST: 3 Meters

E U T: Model 476 Transmitter TEST SITE: 3

EUT MODE: on continous BICONICAL: N/A

DATE: 15-Sep-98 LOG PERIODIC: 418

NOTES: Duty Cycle= 55% OTHER: 453

RBW & VBW 100kHz below 1 GHz

RBW & VBW 1 MHz above 1 GHz

no measurable emisssions @ 3meters above 8th harmonic

FREQ (MHz)	VERTICAL (dBuv)		HORIZONTAL (dBuv)		CORRECTION FACTOR (dB/m)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotatio	Antenna Height	
	pk	av	pk	av		pk	av	pk	av	pk	av			
433.9	52.8	47.6	63	57.8	19.2	**82.2**	**77.0**	100.8	80.8	-18.6	-3.8	0	2	
867.8	31.6	26.4	32.4	27.2	27.4	**59.8**	**54.6**	80.8	60.8	-21	-6.2	0	2	
1301.7	23.7	18.5	27	21.8	27.9	**54.9**	**49.7**	74	54	-19.1	-4.3	0	2	
1735.6	20.8	15.6	22.5	17.3	31.5	**54.0**	**48.8**	80.8	60.8	-26.8	-12	0	2	
2169.5	12.8	7.61	11.4	6.21	33.5	**46.3**	**41.1**	80.8	60.8	-34.5	-20	0	2	
2603.4	9.7	4.51	8.7	3.51	35.2	**44.9**	**39.7**	80.8	60.8	-35.9	-21	0	2	
3037.3	6	0.81	5.4	0.21	37.4	**43.4**	**38.2**	80.8	60.8	-37.4	-23	0	2	
3471.2	-1.9	-7.09	-2.8	-7.99	38.6	**36.7**	**31.5**	80.8	60.8	-44.1	-29	0	2	

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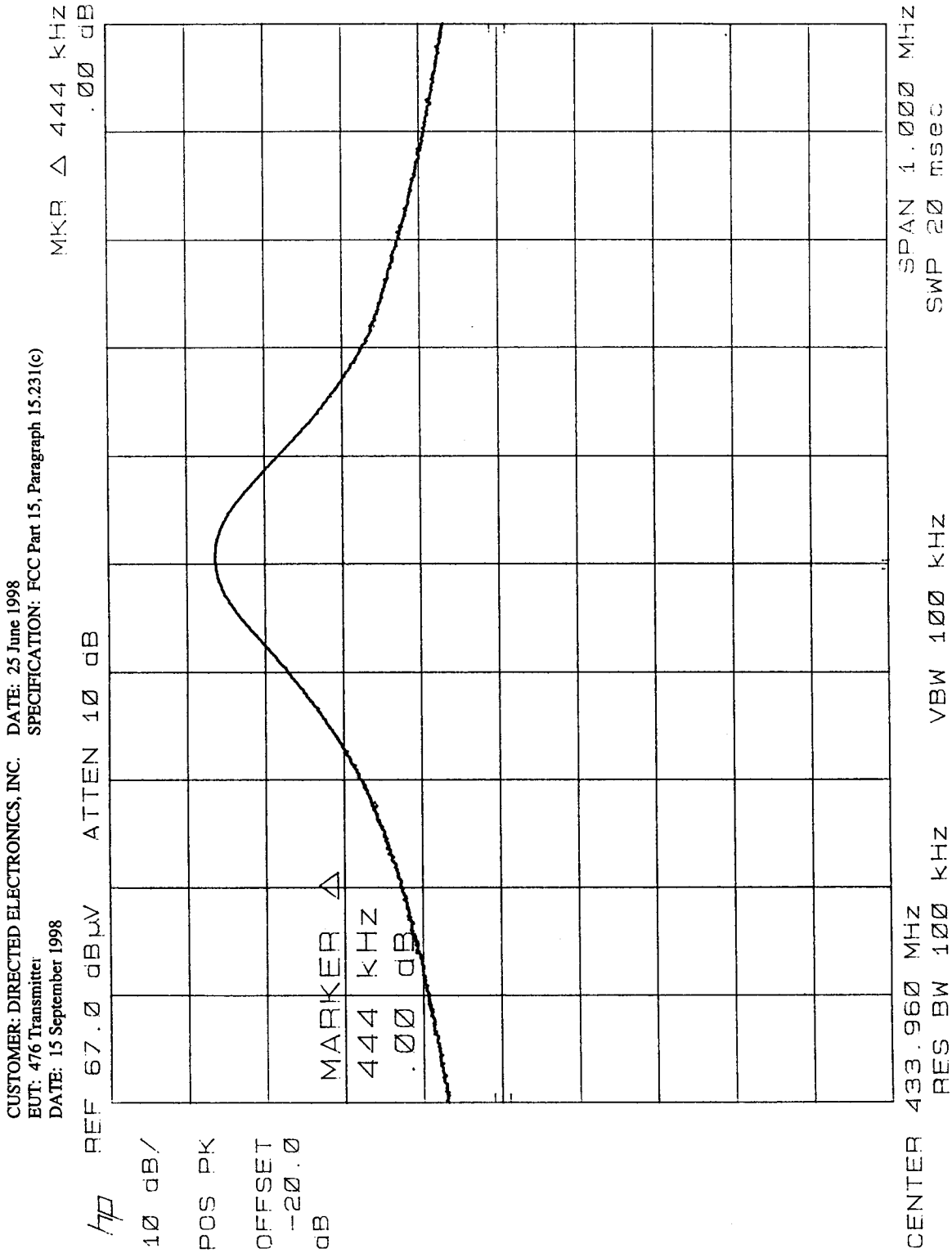

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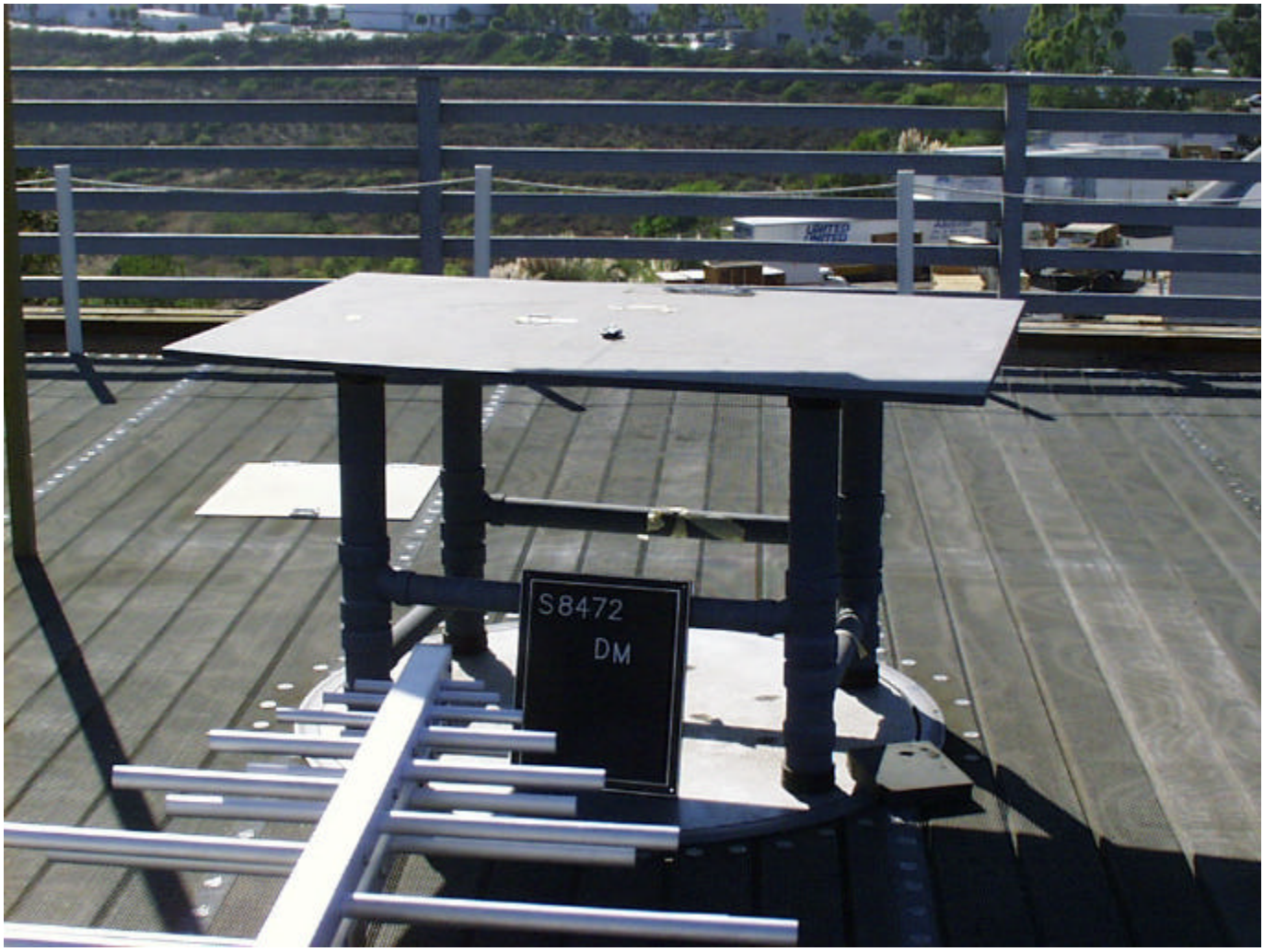
Appendix A

Test Setups
(Photographs)

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 619 546 3999 FAX 619 546 0364

Photograph of Test Setup:



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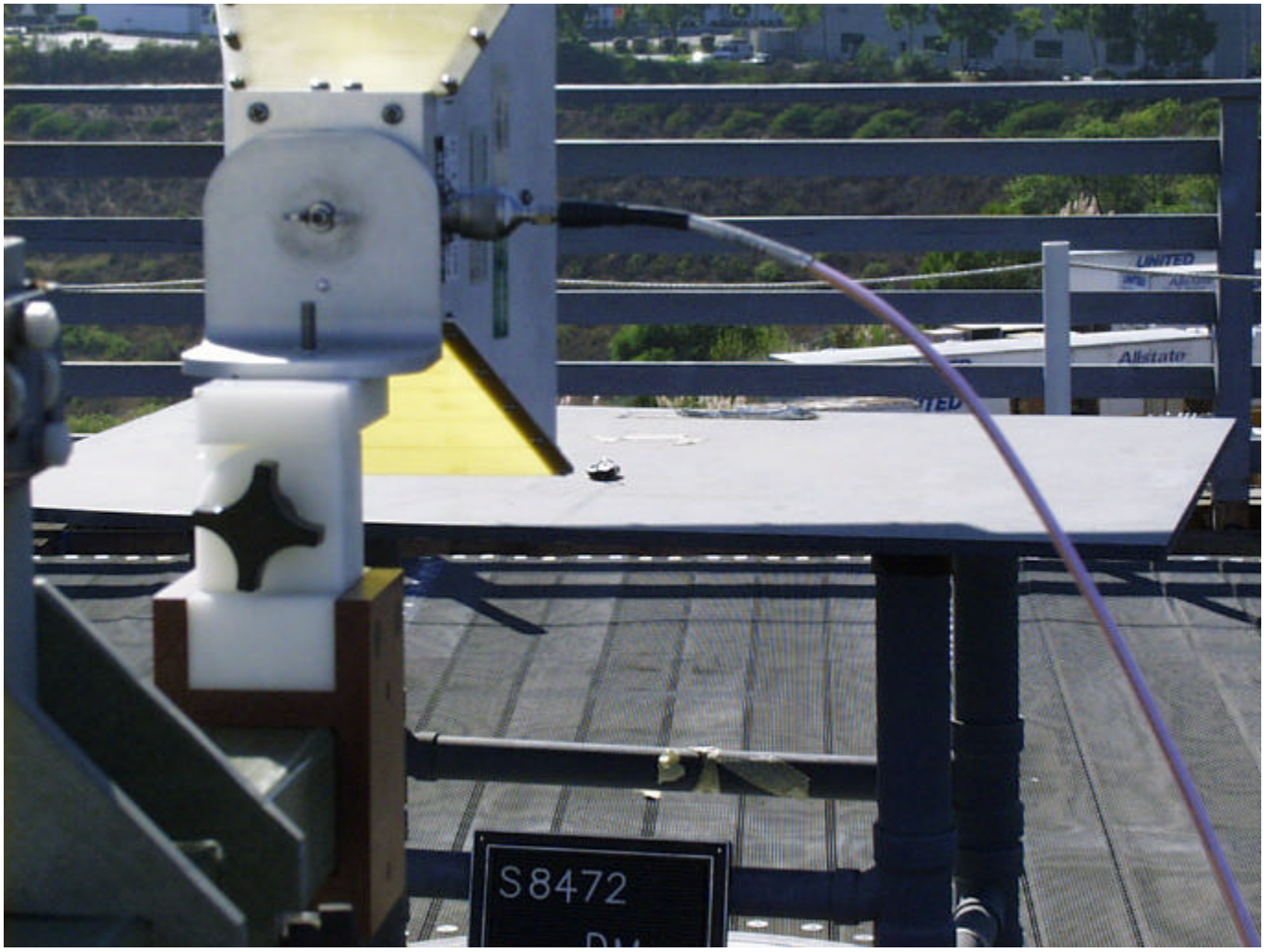
Photograph of Test Setup:



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Photograph of Test Setup:

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Appendix B

Product Information Form(s)

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 619 546 3999 FAX 619 546 0364

CUSTOMER INFORMATION	
COMPANY NAME:	DIRECTED ELECTRONICS, INC.
COMPANY ADDRESS:	2560 Progress Street
	Vista, CA 92083
PHONE NUMBER:	760 599 1366
FAX NUMBER/E-MAIL ADDRESS:	760 599 1380; marting@directed.com
CUSTOMER CONTACT:	Martin Gonzales

PRODUCT DESCRIPTION	
NAME, MODEL, SERIAL # OF EUT:	476 Transmitter, Model 476 (FCC ID: EZSDEI476)
DESCRIPTION OF EUT:	433.92 MHz, saw-stabilized transmitter

Components of EUT			
Description	Model Number	Serial Number	FCC ID Number
N/A			

OPERATING MODE(S):	On continuously transmitting.
I/O CABLES	N/A
POWER CORDS	N/A

POWER INTERFACE	
FREQUENCY/AC/DC VOLTAGE:	Battery 6 Vdc
PHASES/CURRENT:	-- / --

OSCILLATOR FREQUENCIES		
FREQUENCY	EUT LOCATION	DESCRIPTION OF USE
433.92 MHz	--	--

POWER SUPPLY				
DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	SWITCHING/LINEAR FREQ.
2-3 V battery	Any	CR2016	--	--

POWER LINE FILTERS			
MANUFACTURER	MODEL NO.	QTY.	LOCATION ON EUT
--			

CRITICAL EMI COMPONENTS				
DESCRIPTION	MANUFACTURER	PART # OR VALUE	QTY.	LOCATION ON EUT
--				

DESCRIPTION OF ENCLOSURE:	ABS plastic

INTERFACING AND/OR SIMULATORS PERIPHERAL EQUIPMENT:				
DESCRIPTION	MANUFACTURER	MODEL #	SERIAL #	FCC ID
N/A				

BLOCK DIAGRAM:	--

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 619 546 3999 FAX 619 546 0364

Appendix C

Change History

Not Applicable

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Appendix D

Supplemental Information

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 619 546 3999 FAX 619 546 0364

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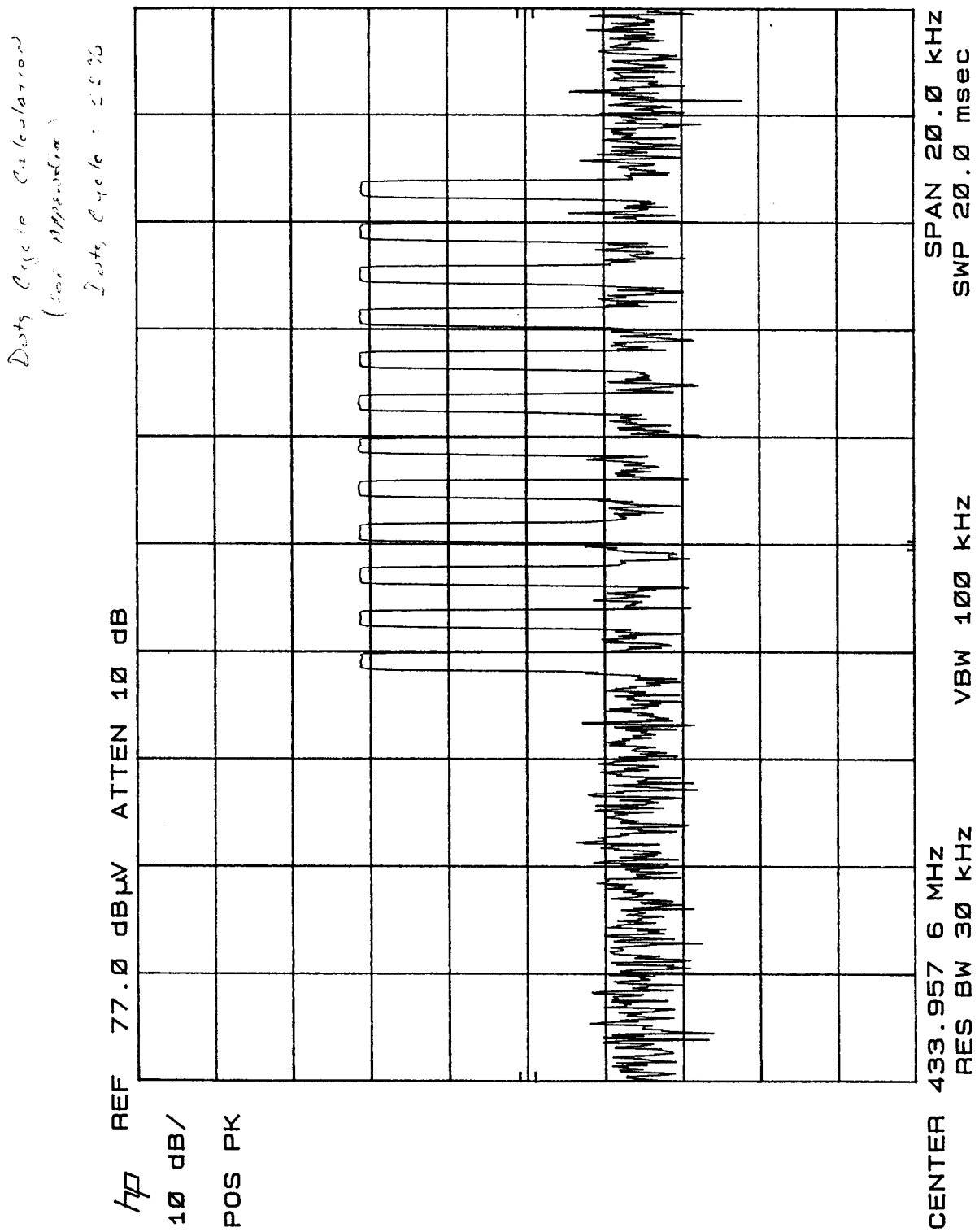

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