

October 20, 2003

Mr. Peter Hauser  
**Zeecraft Tech**  
R.R #2 Box 157-H  
New Milford, PA 18834

Dear Mr. Hauser:

Enclosed is the test data for the **Zeecraft Tech** Inquisitor Transmitter tested at our facility, 556 Route 222 in Groton, New York. This facility is on file with the FCC per CFR 47 2.948 (Site File Number 31040/SIT) and is NVLAP accredited.

As narrated in the report, the product configuration meets the requirements of the FCC per CFR 47 Part 15 Class C Section 15.209 for Intentional Radiators.

Thank you for selecting Diversified T.E.S.T. Technologies, Inc. for your testing needs. We look forward to working with you on future projects. Should you have any questions, or concerns regarding this report please contact me at (800) 724-6452 or (607) 898-4218.

Sincerely,

Shaun Hotaling  
Technical Associate

**DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. FCC Part 15 Class C Section 15.209  
TEST REPORT**

Zeecraft Tech. Inquisitor Transmitter	Project Number: 5583
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## **Standard Information & Product Description**

STANDARD: FCC Part 15 Class C Section 15.209

CLIENT: Zeecraft Tech.  
R.R. #2 Box 157-H  
New Milford, PA 18834

PRODUCT: Inquisitor Transmitter

Condition: New

PRODUCT RECEIVED: September 2, 2003

TEST DATES: September 2, 2003

PREPARED BY: Diversified TEST Technologies, Inc.  
556 Route 222 • PO Box 8  
Groton, New York 13073  
(607) 898-4218  
(607) 898-4830/fax

COMPILED BY:  
Shaun Hotaling  
\_\_\_\_\_  
Technical Associate

REVIEWED BY:  
Thomas P. Sims  
\_\_\_\_\_  
President

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## **Modifications:**

Product: Inquisitor Transmitter

Original Configuration: Wall Transformer

Modification: Put a fair-rite head on transformer by DC main plug by the EUT DC input part #0431164281 31 material 2 ½ turns.

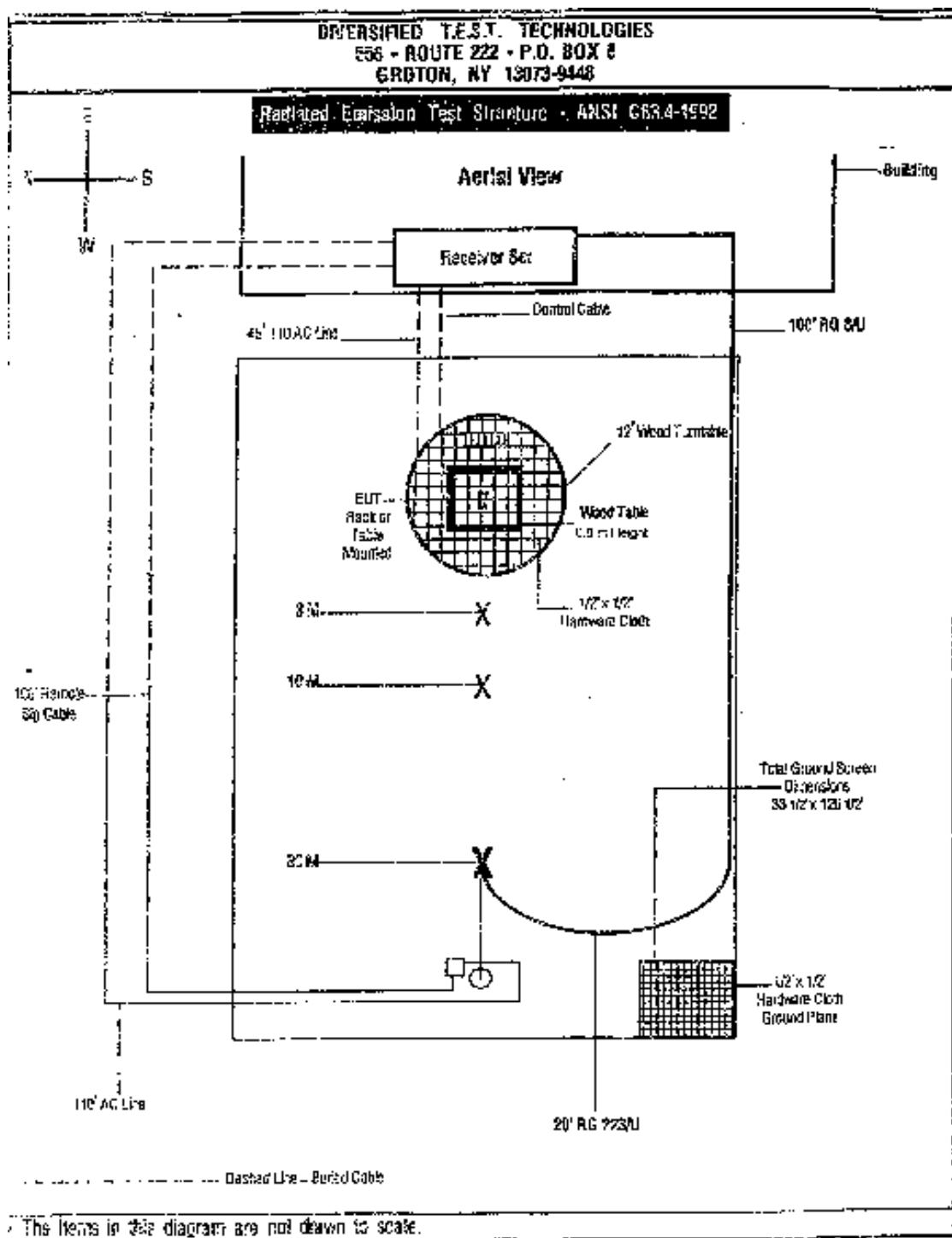
Fair-Rite information attached.

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## Zeecraft Tech. Inquisitor Transmitter

Project Number:  
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## Diagrams for Radiated Emissions



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## **Data Charts for Radiated Emissions**

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**TEST REPORT**

Zeecraft Tech.  
 Inquisitor Transmitter

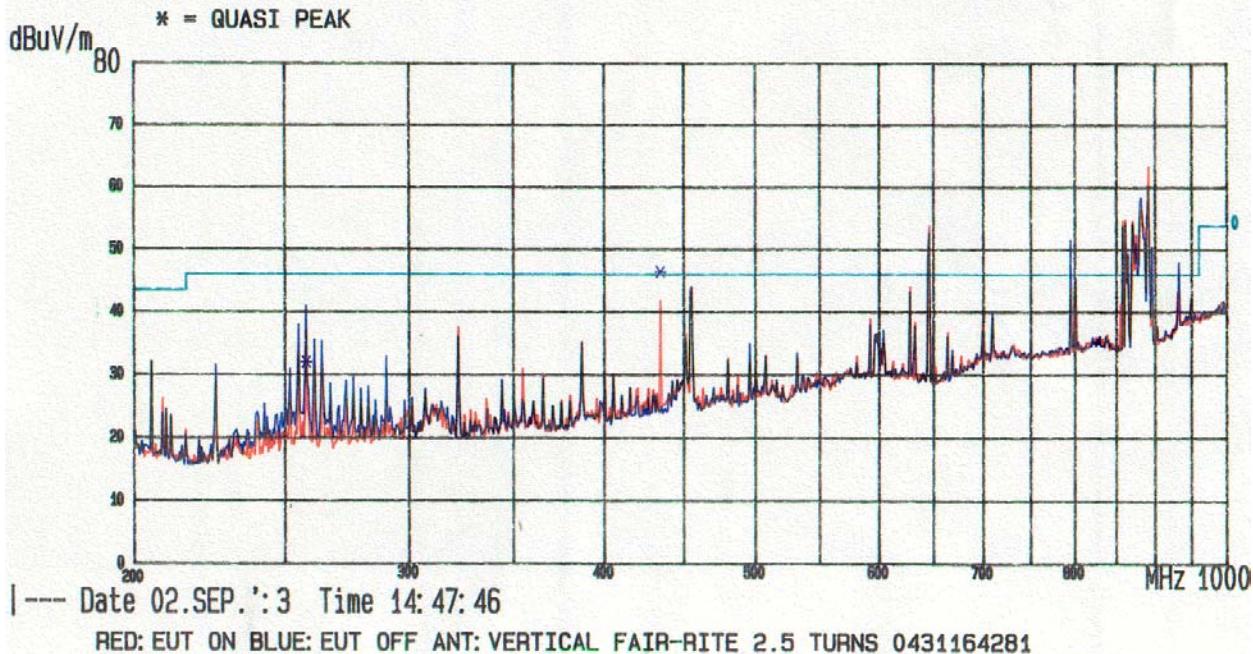
Project Number:  
 5583

**ZEECRAFT TECH.**  
**RFI Fieldstrength Test (General)**

E.U.T.: INQUISITOR  
 Oper. condition: 120VAC 60Hz  
 Operator: G. HOTALING

Test spec:  
 47 CFR PART 15 CLASS B 3 METERS 200-1000MHZ ANT S/N: 1242

Start Fr. MHz	Stop Fr. MHz	IF-BW kHz	Detect	Att. dB	Meas. T. s	Transtd. LN	type
200.0000	1000.0000	120	Peak	LN	0.005		



**ZEECRAFT TECH.**  
**RFI Fieldstrength Test (General)**

E.U.T.: INQUISITOR  
 Date: 02.SEP.'13

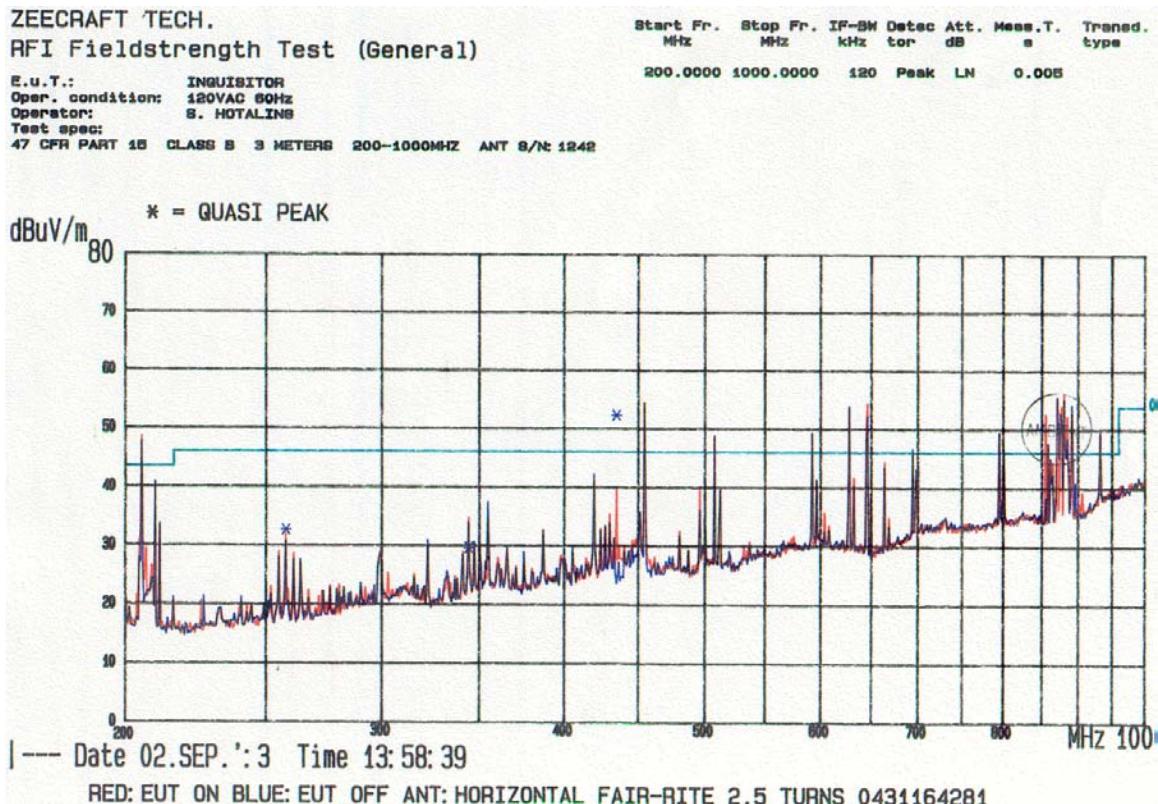
Frequency MHz	Measured Level. dBuV/m	GP Margin dB	Pol h/v	Value	Height m	Azimuth deg.
287.7230	32.1	-13.9	v	2.40	180	
433.9520	46.5	0.6	v	1.00	180	

Fundamental → 433.9520  
 does not count  
 M Limit exceeded

**DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. FCC Part 15 Class C Section 15.209**  
**TEST REPORT**

Zeecraft Tech.  
 Inquisitor Transmitter

Project Number:  
 5583



**ZEECRAFT TECH.**  
**RFI Fieldstrength Test (General)**

E.u.T.: INQUISITOR  
 Date: 02.SEP.'03

Frequency MHz	Measured Level. dBuV/m	G.P. Margin dB	V.L. h/v	Height m	Azimuth deg.
257.7200	32.6	-13.4		1.00	
343.6360	29.6	-15.4		1.00	
439.6520	52.3	6.3 *		1.00	

\* Limit exceeded

Fundamental →  
 Does not count

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TEST REPORT**

# Zeecraft Tech. Inquisitor Transmitter

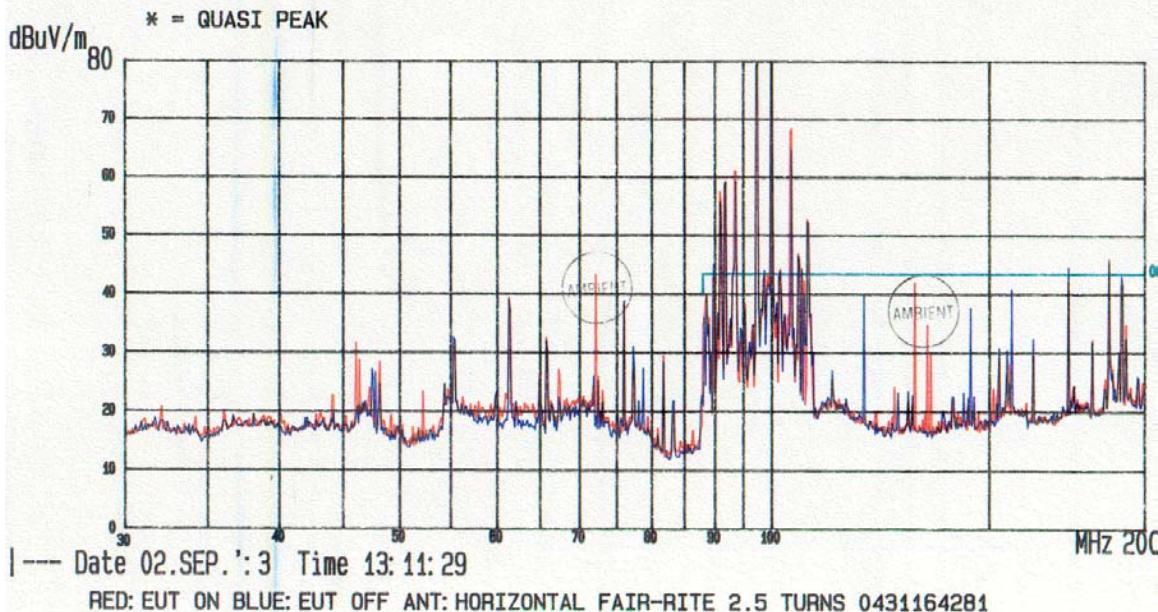
Project Number:  
5583

ZEECRAFT · TECH.  
RFI Fieldstrength Test (General)

Start Fr. MHz	Stop Fr. MHz	IF-BW kHz	Detect tor	Att. dB	Meas.T. s	Transd. type
30.0000	199.9999	120	Peak	LN	0.020	

E.u.T.: INQUISITOR  
Oper. condition: 120VAC 60Hz  
Operator: S. HOTALING  
Test spec:

Test spec:  
47 CFR PART 15 CLASS B 3 METERS 30-200 MHz ANT S/N: 001

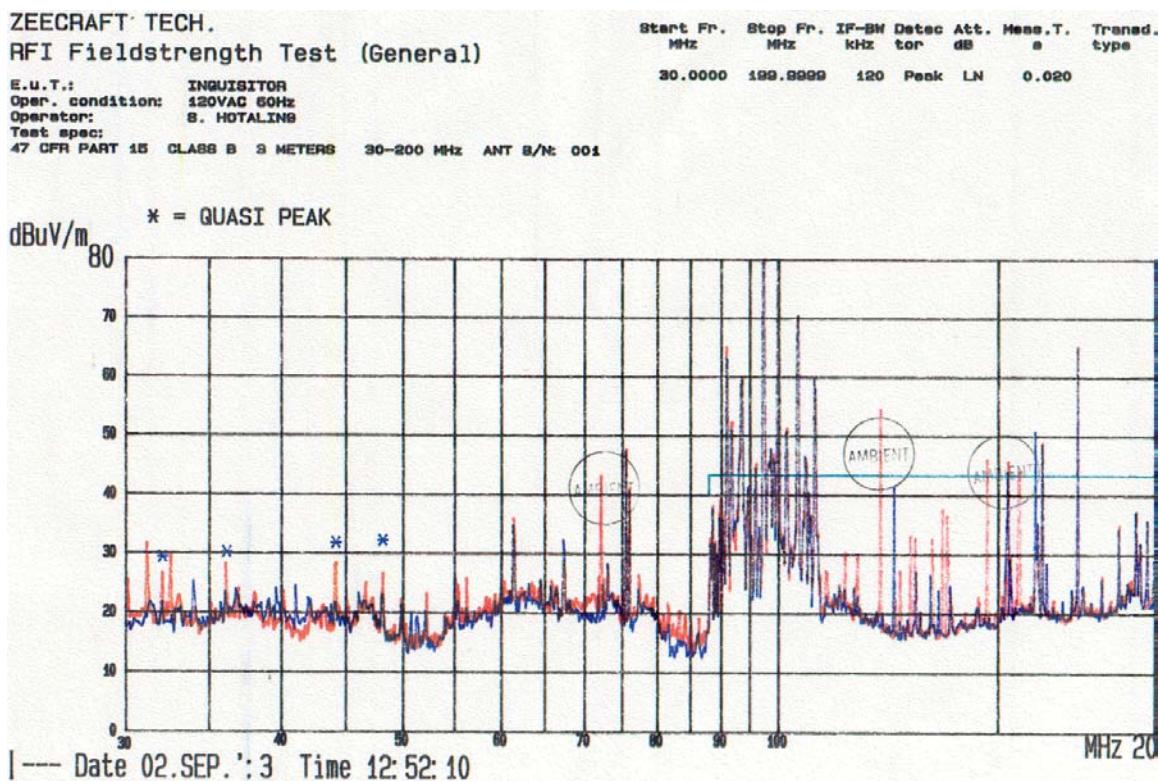


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Measured Q.P. values						
Frequency MHz	Level. dbuV/m	Margin dB	Pol. h/v	Height m	Azimuth deg.	
32.1000	29.4	-10.6	v	1.00	0	
36.1240	30.2	-9.8	v	1.00	0	
44.1470	31.8	-8.1	v	1.00	0	
48.1640	32.2	-7.8	v	1.00	0	

\* Limit exceeded

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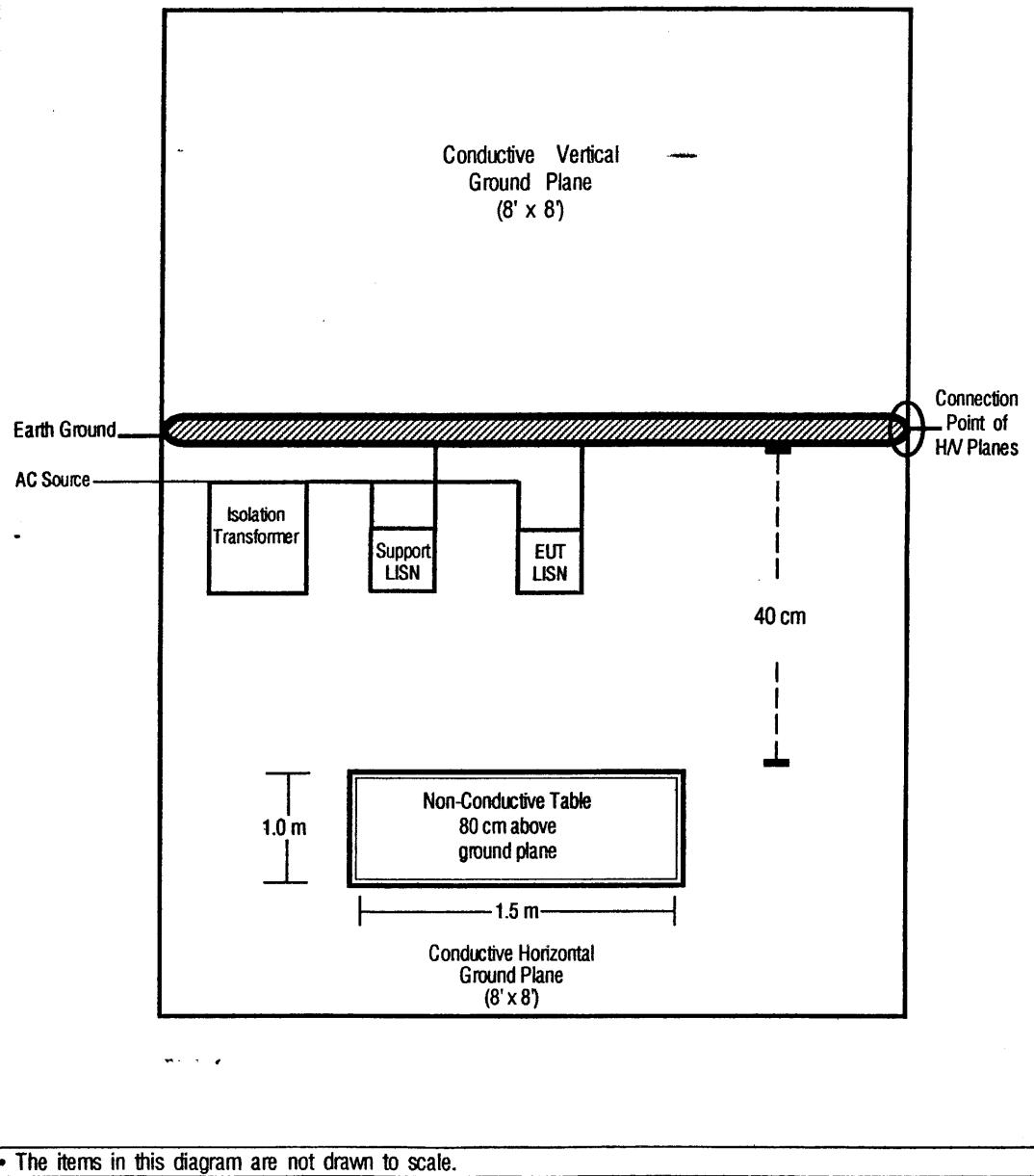
Zeecraft Tech.  
Inquisitor Transmitter

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5583

## Diagrams for Conducted Emissions

**DIVERSIFIED T.E.S.T. TECHNOLOGIES  
556 • ROUTE 222 • P.O. BOX 8  
GROTON, NY 13073-9448**

Conducted Emission Test Structure • ANSI C63.4-1992



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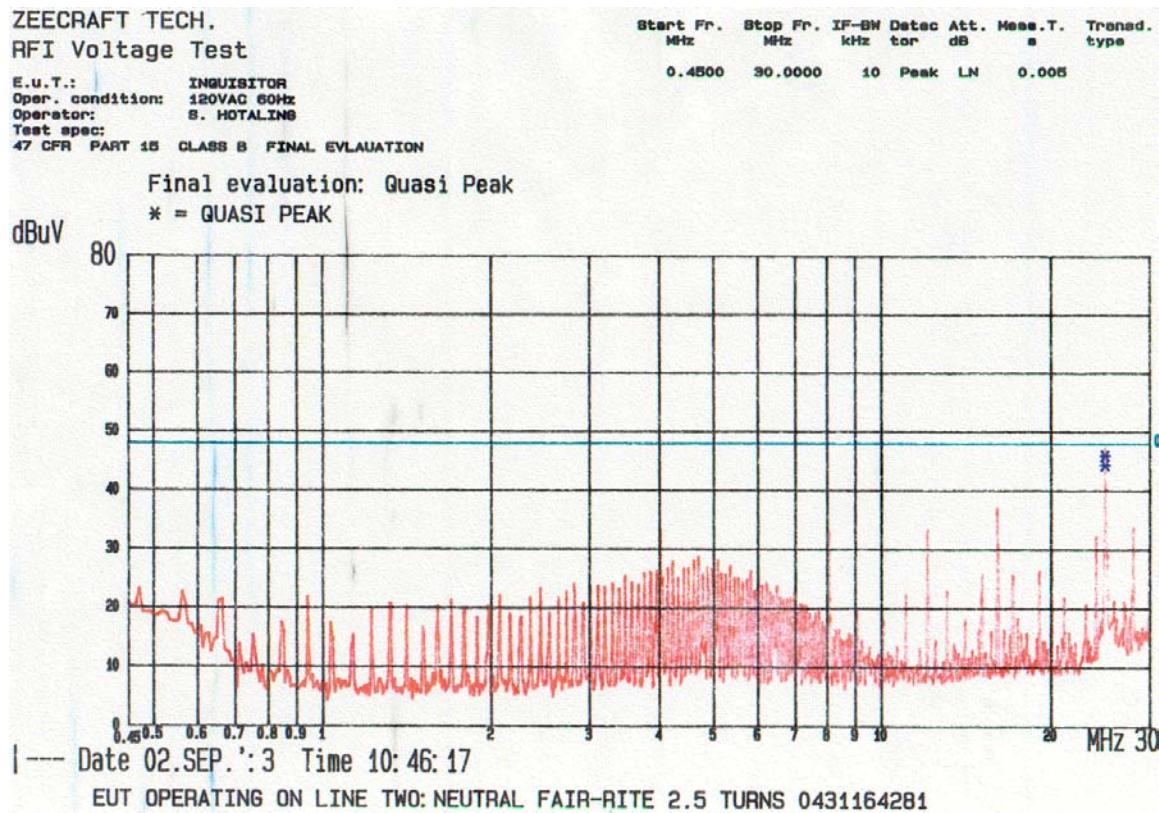
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Inquisitor Transmitter

Project Number:  
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## Data Charts for Conducted Emissions



**ZEECRAFT TECH.  
RFI Voltage Test**

E.U.T.: INQUISITOR  
Date: 02.SEP.'13

Exceeding values				
Frequency MHz	Peak dBuV	Q-Peak dBuV	GP-Margin dB	
24.9990	47.5	48.1	-1.6	
25.0080	47.4	44.4	-3.6	

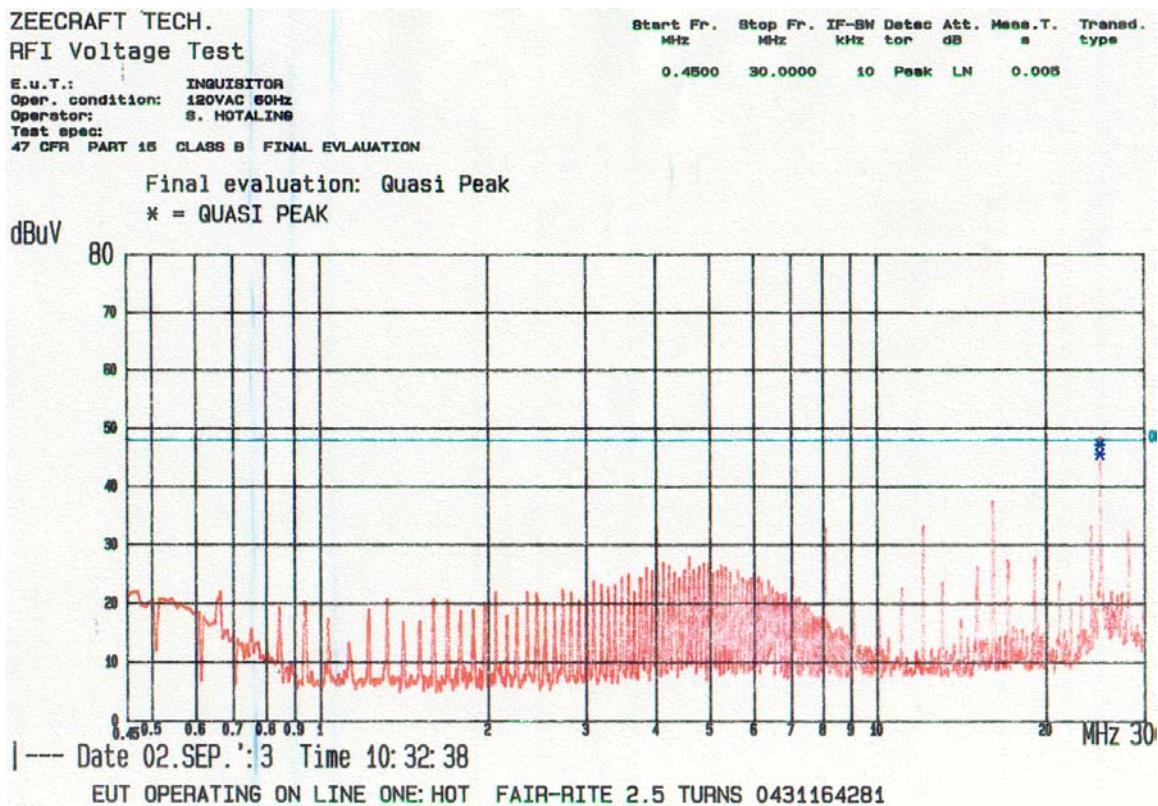
\* Limit exceeded

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 Inquisitor Transmitter

Project Number:  
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**ZEECRAFT TECH.**  
**RFI Voltage Test**

E.u.T.: INQUISITOR  
 Date: 02.SEP.:'3

Exceeding values			
Frequency MHz	Peak dBuV	G-Peak dBuV	QP-Margin dB
24.9990	48.8	47.2	-0.8
25.0060	48.6	45.6	-2.4

\* Limit exceeded

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**Reference:** FCC, Part 15, Subpart C, Sec. 15.231. (a.1.)

The spectrum analyzer was set at a sweep time of 50 ms. When the transmitter button was pressed the signal was sent at such a rapid speed it could not be seen.

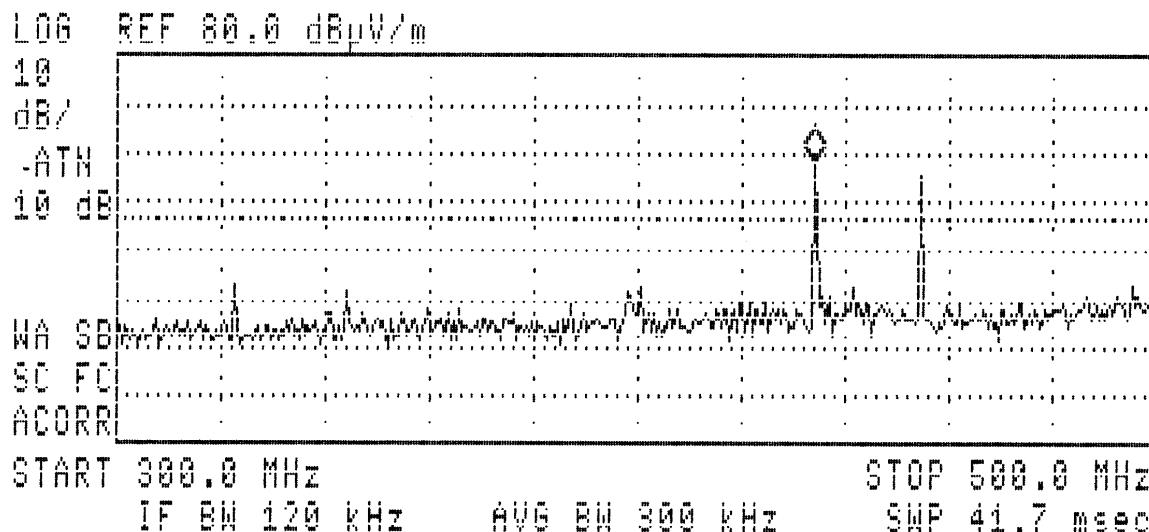
The intermittent signal is sent by a switch, which will automatically deactivate the transmitter within not more than 5 seconds of being released.

1 scan attached.

89:21:55 SEP 03, 2003  
 1/2

Signal	Freq (MHz)	PK Amp	QP Amp	Avg Amp
■■■	433.948550	58.4	58.1	58.1

FREQ	433.9 MHz
PEAK	58.4 dB $\mu$ V/m
QP	58.1 dB $\mu$ V/m
Avg	58.1 dB $\mu$ V/m



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