

*FCC PART 15, SUBPART B and C
TEST REPORT**for*

REMOTE CONTROL

MODEL: DT1

Prepared for
ELECTRONIC SOLUTIONS, INC.
11811 UPHAM STREET, UNIT #2
BROOMFIELD, COLORADO 80020

Prepared by: *Kyle Fujimoto*

KYLE FUJIMOTO

Approved by: *Michael P. Christensen*

MICHAEL CHRISTENSEN

COMPATIBLE ELECTRONICS INC.
114 OLINDA DRIVE
BREA, CALIFORNIA 92823
(714) 579-0500

DATE: FEBRUARY 24, 2006

	REPORT BODY	APPENDICES					TOTAL
		A	B	C	D	E	
PAGES	16	2	2	2	12	12	46

This report shall not be reproduced except in full, without the written approval of Compatible Electronics.

TABLE OF CONTENTS

Section / Title	PAGE
GENERAL REPORT SUMMARY	4
SUMMARY OF TEST RESULTS	4
1. PURPOSE	5
2. ADMINISTRATIVE DATA	6
2.1 Location of Testing	6
2.2 Traceability Statement	6
2.3 Cognizant Personnel	6
2.4 Date Test Sample was Received	6
2.5 Disposition of the Test Sample	6
2.6 Abbreviations and Acronyms	6
3. APPLICABLE DOCUMENTS	7
4. DESCRIPTION OF TEST CONFIGURATION	8
4.1 Description Of Test Configuration - EMI	8
4.1.1 Cable Construction and Termination	9
5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT	10
5.1 EUT and Accessory List	10
5.2 EMI Test Equipment	11
6. TEST SITE DESCRIPTION	12
6.1 Test Facility Description	12
6.2 EUT Mounting, Bonding and Grounding	12
7. TEST PROCEDURES	13
7.1 Radiated Emissions (Spurious and Harmonics) Test	13
7.2 Bandwidth of the Fundamental	15
8. CONCLUSIONS	16

LIST OF APPENDICES

APPENDIX	TITLE
A	Laboratory Recognitions
B	Modifications to the EUT
C	Additional Models Covered Under This Report
D	Diagrams, Charts, and Photos • Test Setup Diagrams • Radiated Emissions Photos • Antenna and Effective Gain Factors
E	Data Sheets

LIST OF FIGURES

FIGURE	TITLE
1	Plot Map And Layout of 3 Meter Radiated Test Site

GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

Device Tested: Remote Control
Model: DT1
S/N: N/A

Product Description: See Expository Statement

Modifications: The EUT was not modified during the testing.

Manufacturer: Electronic Solutions, Inc.
11811 Upham Street, Unit #2
Broomfield, Colorado 80020

Test Dates: February 1 and 15, 2006

Test Specifications: EMI requirements
CFR Title 47, Part 15 Subpart B; and Subpart C, Sections 15.205, 15.209 and 15.231

Test Procedure: ANSI C63.4

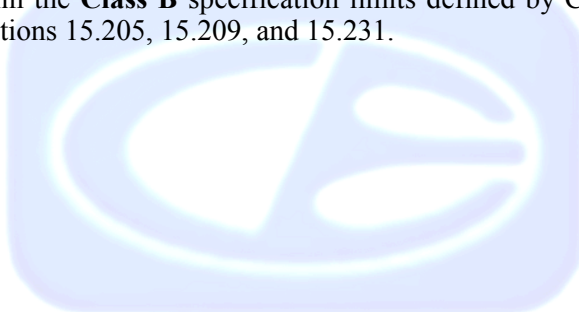
Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz - 30 MHz	This test was not performed because the EUT operates on battery power only and cannot be plugged into the AC public mains.
2	Radiated RF Emissions, 10 kHz – 4.4 GHz	Complies with the Class B limits of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.231.

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Remote Control Model: DT1. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.231.



2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Electronic Solutions, Inc.

Rick Langille President

Compatible Electronics, Inc.

James Ross Test Engineer

Kyle Fujimoto Test Engineer

Michael Christensen Lab Manger

2.4 Date Test Sample was Received

The test sample was received prior to the initial test date of February 1, 2006.

2.5 Disposition of the Test Sample

The sample has not yet been returned to Electronic Solutions, Inc. as of the date of this report.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Model
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
TX	Transmit
RX	Receive
PCB	Printed Circuit Board

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
CFR Title 47, Part 15	FCC Rules – Radio frequency devices (including digital devices)
ANSI C63.4 2003	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description Of Test Configuration - EMI

Setup and operation of the equipment under test.

The Remote Control Model: DT1 (EUT) was tested as a stand-alone device. The EUT was tested while it was continuously transmitting and in three orthogonal axis. The EUT has an antenna that is soldered to its RF PCB.

The final radiated data was taken in the mode above. Please see Appendix E for the data sheets.

4.1.1 Cable Construction and Termination

There were no external cables connected to the EUT.



5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT**5.1 EUT and Accessory List**

EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	FCC ID
REMOTE CONTROL (EUT)	ELECTRONIC SOLUTIONS, INC.	DT1	N/A	P7R433DT1

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08784	June 10, 2005	June 10, 2006
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	3701A22279	June 10, 2005	June 10, 2006
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00424	June 11, 2005	June 11, 2006
EMI Receiver	Rohde & Schwarz	ESIB40	100172	October 28, 2004	October 28, 2006
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Radiated Emissions Data Capture Program	Compatible Electronics	2.0	N/A	N/A	N/A
Biconical Antenna	Com Power	AB-900	15227	March 11, 2005	March 11, 2006
Log Periodic Antenna	Com Power	AL-100	16060	August 22, 2005	August 22, 2006
Preamplifier	Com-Power	PA-102	1017	January 19, 2006	January 19, 2007
Horn Antenna	Com Power	AH-118	10067	July 27, 2004	July 27, 2006
Loop Antenna	Com Power	AL-130	17070	July 28, 2005	July 28, 2006
Microwave Preamplifier	Com Power	PA-122	181917	January 20, 2006	January 20, 2007
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT is battery powered and was not grounded.

7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 Radiated Emissions (Spurious and Harmonics) Test

The spectrum analyzer and EMI Receiver were used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com-Power Active Loop Antenna Model: AL-130 was used for frequencies from 9 kHz to 30 MHz, the Com-Power Preamplifier Model: PA-102 was used for frequencies from 30 MHz to 1 GHz, and the Com-Power Microwave Preamplifier Model: PA-122 was used for frequencies from 1 GHz to 4.4 GHz. The spectrum analyzer and EMI Receiver were used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer or EMI Receiver records the highest measured reading over all the sweeps.

The quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets.

The frequencies averaged by using a duty cycle correction factor based on 20 Log (duty cycle percentage).

The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
10 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 4.4 GHz	1 MHz	Horn Antenna

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results. The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results.

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain final test data. The final qualification data sheets are located in Appendix E.

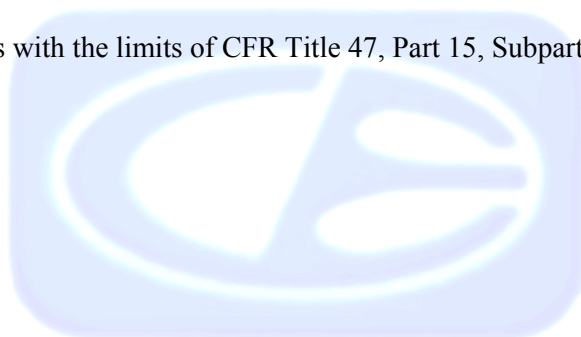


7.2 Bandwidth of the Fundamental

The -20 dB bandwidth was checked to see that it was within 0.25% of the fundamental frequency for the EUT. The data sheet of the -20 dB bandwidth is located in Appendix E.

Test Results:

The EUT complies with the limits of CFR Title 47, Part 15, Subpart C, section 15.231 [c].



8. CONCLUSIONS

The Remote Control Model: DT1 meets all of the **Class B** specification limits defined in CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.231.



APPENDIX A***LABORATORY RECOGNITIONS***

LABORATORY RECOGNITIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

Compatible Electronics is recognized or on file with the following agencies:

Federal Communications Commission

Industry Canada

Radio-Frequency Technologies (Competent Body)



APPENDIX B***MODIFICATIONS TO THE EUT***

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.231 or FCC Class B specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT during the testing.





APPENDIX C

***ADDITIONAL MODELS COVERED
UNDER THIS REPORT***

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Remote Control
Model: DT1
S/N: N/A

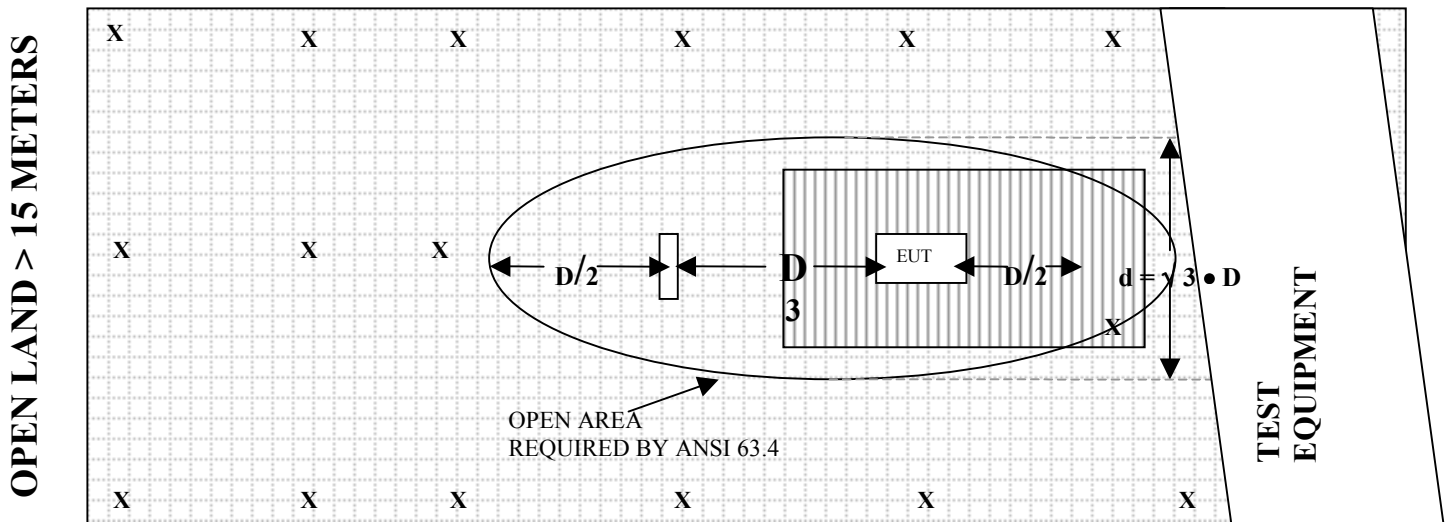
There are no additional models covered under this report.



APPENDIX D***DIAGRAMS, CHARTS, AND PHOTOS***

FIGURE 1: PLOT MAP AND LAYOUT OF 3 METER RADIATED TEST SITE

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS

X	= GROUND RODS		= GROUND SCREEN
D	= TEST DISTANCE (meters)		= WOOD COVER

COM-POWER AB-900**BICONICAL ANTENNA****S/N: 15227****CALIBRATION DATE: MARCH 11, 2005**

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	11.10	120	13.20
35	10.80	125	12.60
40	11.10	140	12.10
45	10.50	150	11.90
50	11.70	160	13.10
60	10.70	175	15.40
70	7.70	180	14.50
80	6.30	200	16.00
90	8.00	250	16.10
100	10.00	300	19.70

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16060

CALIBRATION DATE: AUGUST 22, 2005

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	12.73	700	19.72
400	13.38	800	20.49
500	15.12	900	21.31
600	16.27	1000	24.25

COM-POWER PA-102**PREAMPLIFIER**

S/N: 1017

CALIBRATION DATE: JANUARY 19, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	38.3	300	38.4
40	38.4	350	38.4
50	38.3	400	38.0
60	38.4	450	38.1
70	38.5	500	37.5
80	38.4	550	38.0
90	38.4	600	38.0
100	38.4	650	37.6
125	38.1	700	37.7
150	38.5	750	37.7
175	38.4	800	37.0
200	38.3	850	37.2
225	38.3	900	36.6
250	38.1	950	36.3
275	38.3	1000	36.3

COM-POWER AH-118**HORN ANTENNA**

S/N: 10067

CALIBRATION DATE: JULY 27, 2004

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	25.0	10.0	37.8
1.5	27.9	10.5	39.4
2.0	31.5	11.0	39.4
2.5	31.1	11.5	40.6
3.0	30.6	12.0	40.8
3.5	30.5	12.5	40.5
4.0	30.6	13.0	41.2
4.5	31.4	13.5	42.0
5.0	33.7	14.0	43.1
5.5	33.8	14.5	43.4
6.0	34.7	15.0	39.2
6.5	34.7	15.5	38.8
7.0	35.9	16.0	40.1
7.5	38.1	16.5	40.2
8.0	38.2	17.0	43.4
8.5	37.7	17.5	46.6
9.0	37.7	18.0	45.8
9.5	38.4		

COM-POWER PA-122**PREAMPLIFIER**

S/N: 181917

CALIBRATION DATE: JANUARY 20, 2006

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	34.697	10.0	36.558
1.5	33.817	10.5	35.048
2.0	33.587	11.0	33.258
2.5	33.804	11.5	32.960
3.0	33.850	12.0	33.312
3.5	33.943	12.5	33.836
4.0	34.399	13.0	34.178
4.5	34.847	13.5	34.197
5.0	35.172	14.0	33.769
5.5	35.383	14.5	33.392
6.0	35.539	15.0	33.387
6.5	34.802	15.5	34.038
7.0	33.793	16.0	34.884
7.5	33.511	16.5	35.740
8.0	33.910	17.0	35.341
8.5	34.907	17.5	34.729
9.0	36.036	18.0	33.760
9.5	36.661		

COM-POWER AL-130**LOOP ANTENNA**

S/N: 17070

CALIBRATION DATE: JULY 28, 2005

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-43.3	8.16
0.01	-44.1	7.41
0.02	-44.0	7.54
0.05	-42.7	8.8
0.07	-42.0	9.53
0.1	-41.7	9.84
0.2	-43.6	7.87
0.3	-40.9	10.6
0.5	-41.0	10.7
0.7	-40.5	10.97
1	-40.5	11.04
2	-40.5	11.03
3	-40.6	10.9
4	-42.9	8.63
5	-44.3	7.23
10	-53.7	-2.7
15	-62.6	-11.14
20	-58.9	-7.3
25	-51.5	-11.6
30	-63.1	8.9



FRONT VIEW

ELECTRONIC SOLUTIONS, INC.

REMOTE CONTROL

Model: DT1

FCC SUBPART B AND C – RADIATED EMISSIONS – LAB B

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



REAR VIEW

ELECTRONIC SOLUTIONS, INC.

REMOTE CONTROL

Model: DT1

FCC SUBPART B AND C – RADIATED EMISSIONS – LAB B

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



FRONT VIEW

ELECTRONIC SOLUTIONS, INC.

REMOTE CONTROL

Model: DT1

FCC SUBPART B AND C – RADIATED EMISSIONS – LAB D

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



REAR VIEW

ELECTRONIC SOLUTIONS, INC.

REMOTE CONTROL

Model: DT1

FCC SUBPART B AND C – RADIATED EMISSIONS – LAB D

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS***DATA SHEETS***

FCC 15.231

Electronic Solutions, Inc.
 Transmitter
 Model: DT1

Date: 02/15/06
 Labs: B and D
 Tested By: Kyle Fujimoto

X-Axis

Duty Cycle: 27.3034633 %

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	65.42	V	100.8	-35.38	Peak	2	180	
433.92	54.1444	V	80.8	-26.656	Avg	2	180	
867.84	54.69	V	80.8	-26.11	Peak	1.5	180	
867.84	43.4144	V	60.8	-17.386	Avg	1.5	180	
1301.76	48.06	V	74	-25.94	Peak	3	45	
1301.76	36.7844	V	54	-17.216	Avg	3	45	
1735.7	56.71	V	80.8	-24.09	Peak	3.26	90	
1735.7	45.4344	V	60.8	-15.366	Avg	3.26	90	
2169.6	59.93	V	80.8	-20.87	Peak	2.33	270	
2169.6	48.6544	V	60.8	-12.146	Avg	2.33	270	
2603.52	52.51	V	80.8	-28.29	Peak	3.33	45	
2603.52	41.2344	V	60.8	-19.566	Avg	3.33	45	
3037.44	53.73	V	80.8	-27.07	Peak	2.46	270	
3037.44	42.4544	V	60.8	-18.346	Avg	2.46	270	
3471.36	45.21	V	80.8	-35.59	Peak	3.13	225	
3471.36	33.9344	V	60.8	-26.866	Avg	3.13	225	
3905.28	62.3	V	74	-11.7	Peak	3.84	270	
3905.28	51.0244	V	54	-2.9756	Avg	3.84	270	
4339.2	50.48	V	74	-23.52	Peak	3.99	45	
4339.2	39.2044	V	54	-14.796	Avg	3.99	45	

FCC 15.231

Electronic Solutions, Inc.
 Transmitter
 Model: DT1

Date: 02/15/06
 Labs: B and D
 Tested By: Kyle Fujimoto

X-Axis

Duty Cycle: 27.3034633 %

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	83.02	H	100.8	-17.78	Peak	1	270	
433.92	71.7444	H	80.8	-9.0556	Avg	1	270	
867.84	63.48	H	80.8	-17.32	Peak	1	270	
867.84	52.2044	H	60.8	-8.5956	Avg	1	270	
1301.76	59.26	H	74	-14.74	Peak	2.95	225	
1301.76	47.9844	H	54	-6.0156	Avg	2.95	225	
1735.7	54.56	H	80.8	-26.24	Peak	1.95	225	
1735.7	43.2844	H	60.8	-17.516	Avg	1.95	225	
2169.6	62.22	H	80.8	-18.58	Peak	2.92	135	
2169.6	50.9444	H	60.8	-9.8556	Avg	2.92	135	
2603.52	47.44	H	80.8	-33.36	Peak	2.65	90	
2603.52	36.1644	H	60.8	-24.636	Avg	2.65	90	
3037.44	58.43	H	80.8	-22.37	Peak	3.01	180	
3037.44	47.1544	H	60.8	-13.646	Avg	3.01	180	
3471.36	62.19	H	80.8	-18.61	Peak	3.68	180	
3471.36	50.9144	H	60.8	-9.8856	Avg	3.68	180	
3905.28	56.1	H	74	-17.9	Peak	2.38	45	
3905.28	44.8244	H	54	-9.1756	Avg	2.38	45	
4339.2	57.2	H	74	-16.8	Peak	3.22	0	
4339.2	45.9244	H	54	-8.0756	Avg	3.22	0	

FCC 15.231

Electronic Solutions, Inc.
Transmitter
Model: DT1

Date: 02/15/06
Labs: B and D
Tested By: Kyle Fujimoto

Y-Axis

Duty Cycle: 27.3034633 %

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	79.32	V	100.8	-21.48	Peak	1.25	90	
433.92	68.0444	V	80.8	-12.756	Avg	1.25	90	
867.84	63.59	V	80.8	-17.21	Peak	1	225	
867.84	52.3144	V	60.8	-8.4856	Avg	1	225	
1301.76	59.85	V	74	-14.15	Peak	3.8	225	
1301.76	48.5744	V	54	-5.4256	Avg	3.8	225	
1735.7	58.55	V	80.8	-22.25	Peak	2.94	270	
1735.7	47.2744	V	60.8	-13.526	Avg	2.94	270	
2169.6	64.74	V	80.8	-16.06	Peak	3.1	315	
2169.6	53.4644	V	60.8	-7.3356	Avg	3.1	315	
2603.52	50.56	V	80.8	-30.24	Peak	3.6	90	
2603.52	39.2844	V	60.8	-21.516	Avg	3.6	90	
3037.44	58.47	V	80.8	-22.33	Peak	1.76	90	
3037.44	47.1944	V	60.8	-13.606	Avg	1.76	90	
3471.36	58.67	V	80.8	-22.13	Peak	1.25	90	
3471.36	47.3944	V	60.8	-13.406	Avg	1.25	90	
3905.28	57.34	V	74	-16.66	Peak	3.29	225	
3905.28	46.0644	V	54	-7.9356	Avg	3.29	225	
4339.2	60.58	V	74	-13.42	Peak	2.96	135	
4339.2	49.3044	V	54	-4.6956	Avg	2.96	135	

FCC 15.231

Electronic Solutions, Inc.
 Transmitter
 Model: DT1

Date: 02/15/06
 Labs: B and D
 Tested By: Kyle Fujimoto

Y-Axis

Duty Cycle: 27.3034633 %

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	78.02	H	100.8	-22.78	Peak	1.25	225	
433.92	66.7444	H	80.8	-14.056	Avg	1.25	225	
867.84	55.89	H	80.8	-24.91	Peak	2.5	0	
867.84	44.6144	H	60.8	-16.186	Avg	2.5	0	
1301.76	39.97	H	74	-34.03	Peak	2.44	90	
1301.76	28.6944	H	54	-25.306	Avg	2.44	90	
1735.7	59.84	H	80.8	-20.96	Peak	1.58	180	
1735.7	48.5644	H	60.8	-12.236	Avg	1.58	180	
2169.6	59.8	H	80.8	-21	Peak	2.23	180	
2169.6	48.5244	H	60.8	-12.276	Avg	2.23	180	
2603.52	51.41	H	80.8	-29.39	Peak	1.63	225	
2603.52	40.1344	H	60.8	-20.666	Avg	1.63	225	
3037.44	58.73	H	80.8	-22.07	Peak	1.28	135	
3037.44	47.4544	H	60.8	-13.346	Avg	1.28	135	
3471.36	62.76	H	80.8	-18.04	Peak	1.64	0	
3471.36	51.4844	H	60.8	-9.3156	Avg	1.64	0	
3905.28	64.06	H	74	-9.94	Peak	3.05	225	
3905.28	52.7844	H	54	-1.2156	Avg	3.05	225	
4339.2	49.46	H	74	-24.54	Peak	1.6	180	
4339.2	38.1844	H	54	-15.816	Avg	1.6	180	

FCC 15.231

Electronic Solutions, Inc.
Transmitter
Model: DT1

Date: 02/15/06
Labs: B and D
Tested By: Kyle Fujimoto

Z-Axis

Duty Cycle: 27.3034633 %

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	79.22	V	100.8	-21.58	Peak	1.2	180	
433.92	67.9444	V	80.8	-12.856	Avg	1.2	180	
867.84	60.49	V	80.8	-20.31	Peak	1.25	90	
867.84	49.2144	V	60.8	-11.586	Avg	1.25	90	
1301.76	45.02	V	74	-28.98	Peak	2.67	45	
1301.76	33.7444	V	54	-20.256	Avg	2.67	45	
1735.7	57.56	V	80.8	-23.24	Peak	1.21	180	
1735.7	46.2844	V	60.8	-14.516	Avg	1.21	180	
2169.6	59.41	V	80.8	-21.39	Peak	2.74	0	
2169.6	48.1344	V	60.8	-12.666	Avg	2.74	0	
2603.52	49.81	V	80.8	-30.99	Peak	2.04	225	
2603.52	38.5344	V	60.8	-22.266	Avg	2.04	225	
3037.44	56.57	V	80.8	-24.23	Peak	1.98	225	
3037.44	45.2944	V	60.8	-15.506	Avg	1.98	225	
3471.36	55.11	V	80.8	-25.69	Peak	1.93	225	
3471.36	43.8344	V	60.8	-16.966	Avg	1.93	225	
3905.28	64.35	V	74	-9.65	Peak	1	135	
3905.28	53.0744	V	54	-0.9256	Avg	1	135	
4339.2	53.19	V	74	-20.81	Peak	1.2	225	
4339.2	41.9144	V	54	-12.086	Avg	1.2	225	

FCC 15.231

Electronic Solutions, Inc.
 Transmitter
 Model: DT1

Date: 02/15/06
 Labs: B and D
 Tested By: Kyle Fujimoto

Z-Axis

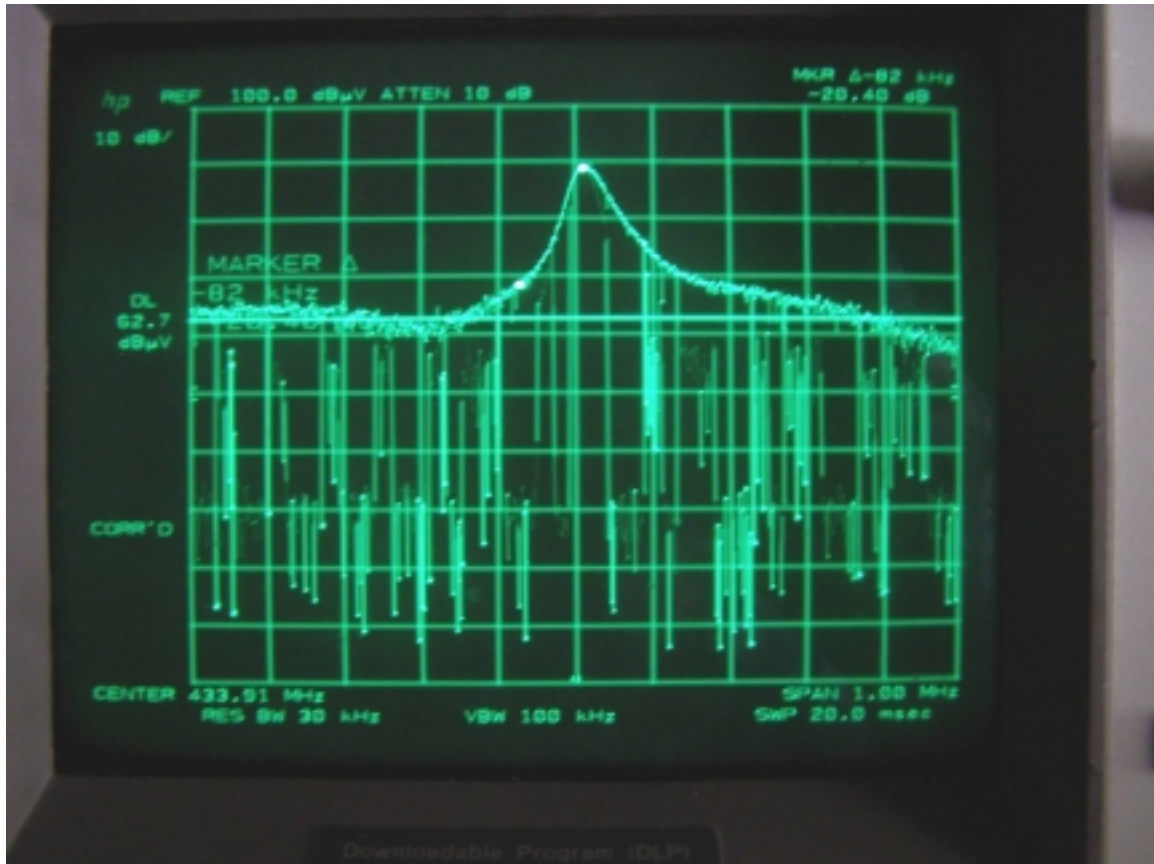
Duty Cycle: 27.3034633 %

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	74.32	H	100.8	-26.48	Peak	1	270	
433.92	63.0444	H	80.8	-17.756	Avg	1	270	
867.84	61.69	H	80.8	-19.11	Peak	1	180	
867.84	50.4144	H	60.8	-10.386	Avg	1	180	
1301.76	49.34	H	74	-24.66	Peak	1.17	180	
1301.76	38.0644	H	54	-15.936	Avg	1.17	180	
1735.7	54.91	H	80.8	-25.89	Peak	1	180	
1735.7	43.6344	H	60.8	-17.166	Avg	1	180	
2169.6	55.37	H	80.8	-25.43	Peak	1.82	0	
2169.6	44.0944	H	60.8	-16.706	Avg	1.82	0	
2603.52	52.45	H	80.8	-28.35	Peak	1.7	135	
2603.52	41.1744	H	60.8	-19.626	Avg	1.7	135	
3037.44	54.86	H	80.8	-25.94	Peak	3.52	225	
3037.44	43.5844	H	60.8	-17.216	Avg	3.52	225	
3471.36	50.56	H	80.8	-30.24	Peak	3.41	225	
3471.36	39.2844	H	60.8	-21.516	Avg	3.41	225	
3905.28	62.09	H	74	-11.91	Peak	1.04	225	
3905.28	50.8144	H	54	-3.1856	Avg	1.04	225	
4339.2	44.37	H	74	-29.63	Peak	2.62	225	
4339.2	33.0944	H	54	-20.906	Avg	2.62	225	

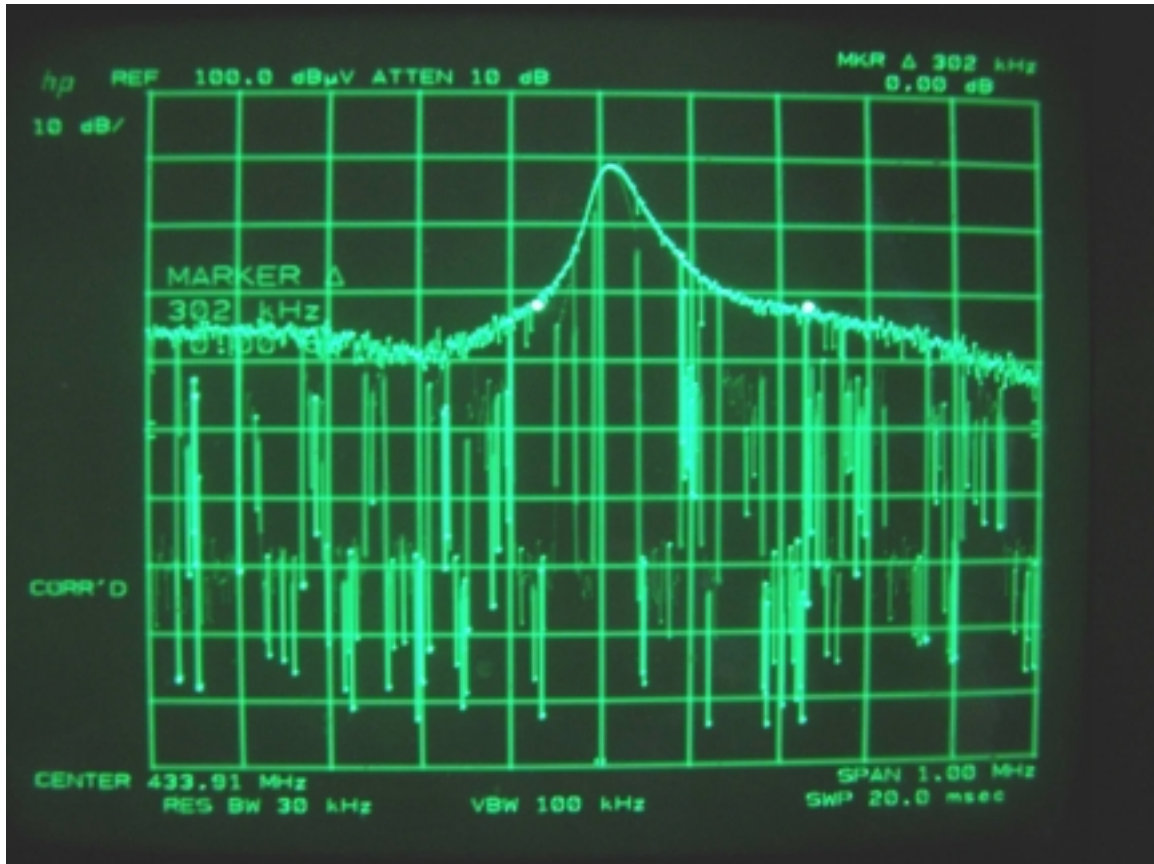


-20 dB BANDWIDTH

DATA SHEET



**PHOTOGRAPH # SHOWING THE MARKER BEING MOVED TO
THE -20 dB POINT.**



PHOTOGRAPH SHOWING THE -20 dB BANDWIDTH