

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

TRANSMITTER

MODEL: TX200

Prepared for

FOXPRO, INC.
14 FOX HOLLOW DRIVE
LEWISTOWN, PENNSYLVANIA 17044Prepared by: *Kyle Fujimoto*

KYLE FUJIMOTO

Approved by: *James Ross*

JAMES ROSS

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

DATE: SEPTEMBER 1, 2006

	REPORT BODY	APPENDICES					TOTAL
		<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	
PAGES	16	2	2	2	17	12	51

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 Radiated Emissions (Spurious and Harmonics) Test (continued)	14
7.3 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 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: Transmitter
Model: TX200
S/N: N/A

Product Description: See Expository Statement

Modifications: The EUT was not modified in order to meet the specifications.

Manufacturer: Foxpro, Inc.
14 Fox Hollow Drive
Lewistown, Pennsylvania 17044

Test Dates: August 18 and 24, 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

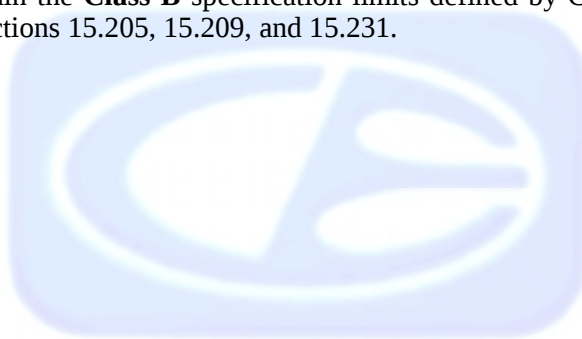
Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 150 kHz – 30 MHz	This test was not performed because the EUT is battery powered only and does not connect to the AC public mains.
2	Radiated RF Emissions, 10 kHz – 4400 MHz	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 Transmitter, Model: TX200. 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

Foxpro, Inc.

John Dillon President

Compatible Electronics, Inc.

Kyle Fujimoto	Test Engineer
Falguni Patel	Test Technician
James Ross	Test Engineer

2.4 Date Test Sample was Received

The test sample was received on August 18, 2006

2.5 Disposition of the Test Sample

The sample has not yet been returned to Foxpro, Inc. as of September 7, 2006.

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	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
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	American National Standard for 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.

Specifics of the EUT and Peripherals Tested

Transmit Mode: The Transmitter Model: TX200 (EUT) was tested as a stand-alone unit and continuously transmitting. The EUT's antenna is screwed to the PCB. The EUT was tested in three orthogonal axis.

After the EUT is activated by pressing the button, the transmission will cease operation once the button is released.

Data Transfer Mode: The Transmitter Model: TX200 (EUT) was connected to the Receiver Model: FX5. The receiver was also connected to a CD player and external speaker. The EUT was continuously downloading codes from the receiver. The EUT does not transmit in this mode.

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

Cable 1 (For Data Transfer Mode Only)

This is a 1.9-meter unshielded cable connecting the external speaker to the receiver. The cable has a 1/8 inch stereo jack at the receiver end and is hard wired into the external speaker.

Cable 2 (For Data Transfer Mode Only)

This is a 1-meter unshielded cable connecting the EUT to the receiver. The cable has a 1/8 inch stereo jack at each end.

Cable 3 (For Data Transfer Mode Only)

This is a 2-meter unshielded cable connecting the receiver to the AC Adapter. The cable has a 1/8 inch stereo power connector at the receiver and is hard wired into the AC Adapter.

Note: In Transmit Mode, the EUT had no external cables.

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

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
TRANSMITTER (EUT)	FOXPRO, INC.	TX200	N/A	C6MTX200
RECEIVER	FOXPRO, INC.	FX5	N/A	DoC
AC ADAPTER FOR RECEIVER	GENERIC	P/N: 1294	N/A	N/A
EXTERNAL SPEAKER	BOSTON	N/A	N/A	N/A

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	May 26, 2006	May 26, 2007
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	3701A22279	May 26 2006	May 26, 2007
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00424	May 26, 2006	May 26, 2007
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
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
Preamplifier	Com Power	PA-102	1017	January 19, 2006	Jan. 19, 2007
Biconical Antenna	Com Power	AB-900	15227	March 9, 2006	March 9, 2007
Log Periodic Antenna	Com Power	AL-100	16060	July 17, 2006	July 17, 2007
Preamplifier	Com Power	PA-103	1582	January 19, 2006	Jan. 19, 2007
Biconical Antenna	Com Power	AB-900	15251	March 9, 2006	March 9, 2007
Log Periodic Antenna	Com Power	AL-100	16247	July 17, 2006	July 17, 2007
Loop Antenna	Com Power	AL-130	17089	September 21, 2005	Sept. 21, 2006
Horn Antenna	Antenna Research	DRG-118/A	1053	March 6, 2006	March 6, 2008
Microwave Preamplifier	Com Power	PA-122	181917	January 20, 2006	Jan. 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 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 EMI Receiver and spectrum analyzer 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 Preamplifier Models: PA-102 and PA-103 were 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 EMI Receiver and spectrum analyzer were used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps.

The readings were averaged by a "duty cycle correction factor", derived from $20 \log$ (dwell time / one pulse train with blanking interval).

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

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 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.

7.2 Radiated Emissions (Spurious and Harmonics) Test (continued)

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.

Test Results:

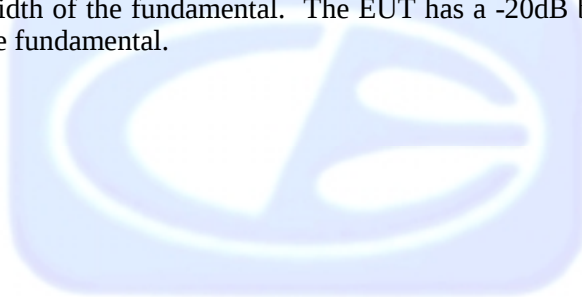
The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.231.

7.3 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. Plots of the -20 dB bandwidth are located in Appendix E.

Test Results:

The EUT complies with the requirements of CFR Title 47, Part 15, Subpart C, section 15.231 (c) for the -20 dB bandwidth of the fundamental. The EUT has a -20dB bandwidth that is less than 0.25% of frequency of the fundamental.



8. CONCLUSIONS

The Transmitter, Model: TX200 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

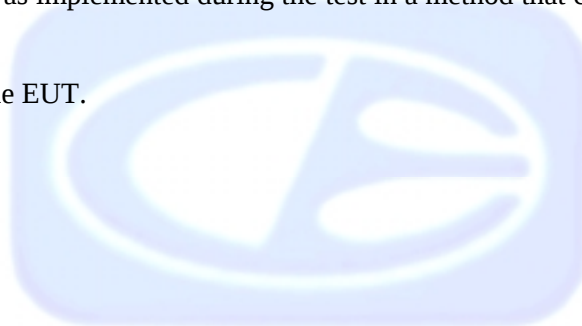
MODIFICATIONS TO THE EUT

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.





APPENDIX C

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

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

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Transmitter
Model: TX200
S/N: N/A

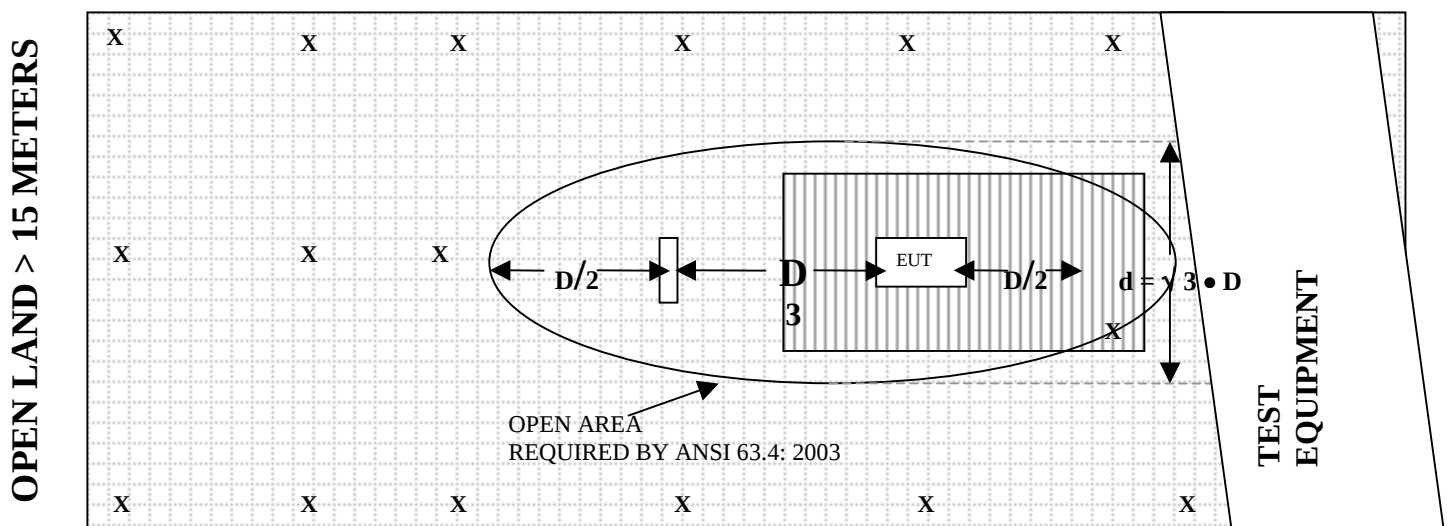
There were no additional models covered under this report.



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

FIGURE 1: PLOT MAP AND LAYOUT OF 3 METER RADIATED 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: 15251

CALIBRATION DATE: MARCH 9, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	11.27	120	13.04
35	10.29	125	12.67
40	9.72	140	11.91
45	11.45	150	11.61
50	13.34	160	13.67
60	11.44	175	15.97
70	8.41	180	16.64
80	6.21	200	16.54
90	7.5	250	16.96
100	11.65	300	17.48

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16247

CALIBRATION DATE: JULY 17, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	12.66	700	20.25
400	14.82	800	19.73
500	15.37	900	22.09
600	17.38	1000	22.85

COM-POWER PA-103**PREAMPLIFIER**

S/N: 1582

CALIBRATION DATE: JANUARY 19, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	32.7	300	32.4
40	32.6	350	32.4
50	32.6	400	32.1
60	32.8	450	32.1
70	32.7	500	31.8
80	32.7	550	31.8
90	32.7	600	32.0
100	32.6	650	31.9
125	32.6	700	31.5
150	32.5	750	31.7
175	32.4	800	31.4
200	32.5	850	31.6
225	32.5	900	30.8
250	32.3	950	31.1
275	32.4	1000	30.9

COM-POWER AB-900

BICONICAL ANTENNA

S/N: 15227

CALIBRATION DATE: MARCH 9, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	11.12	120	13.50
35	10.17	125	12.63
40	9.75	140	12.20
45	12.22	150	11.85
50	13.28	160	13.25
60	11.36	175	15.74
70	7.95	180	16.23
80	5.95	200	16.79
90	7.62	250	16.47
100	10.89	300	17.49

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16060

CALIBRATION DATE: JULY 17, 2006

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	13.58	700	20.49
400	14.53	800	20.13
500	15.36	900	22.15
600	18.29	1000	22.76

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	37.7
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 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		

ANTENNA RESEARCH DRG-118/A**HORN ANTENNA**

S/N: 1053

CALIBRATION DATE: MARCH 6, 2006

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	24.46	10.0	39.55
1.5	25.05	10.5	39.86
2.0	28.42	11.0	38.49
2.5	29.91	11.5	40.71
3.0	31.46	12.0	40.59
3.5	31.91	12.5	40.17
4.0	31.55	13.0	39.70
4.5	31.94	13.5	40.84
5.0	32.90	14.0	41.58
5.5	34.07	14.5	45.14
6.0	35.69	15.0	42.20
6.5	33.11	15.5	39.42
7.0	36.51	16.0	38.80
7.5	37.27	16.5	41.08
8.0	37.21	17.0	44.11
8.5	37.16	17.5	46.29
9.0	38.27	18.0	41.61
9.5	39.73		

COM-POWER AL-130**LOOP ANTENNA****S/N: 17089****CALIBRATION DATE: SEPTEMBER 21, 2005**

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-42.84	8.66
0.01	-41.93	9.57
0.02	-41.29	10.21
0.05	-42.37	9.13
0.07	-41.8	9.7
0.1	-41.83	9.67
0.2	-44.13	7.37
0.3	-41.73	9.77
0.5	-41.8	9.7
0.7	-41.53	9.97
1	-41.46	10.04
2	-41.14	10.36
3	-41.26	10.24
4	-41.46	10.04
5	-41.10	10.40
10	-40.83	10.67
15	-41.47	10.03
20	-35.44	16.06
25	-42.37	9.13
30	-42.94	8.56



FRONT VIEW

FOXPRO, INC.
TRANSMITTER
MODEL: TX200

FCC SUBPART B AND FCC SUBPART 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

FOXPRO, INC.
TRANSMITTER
MODEL: TX200

FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – LAB B

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



FRONT VIEW

FOXPRO, INC.
TRANSMITTER
MODEL: TX200

FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – LAB D

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



REAR VIEW

FOXPRO, INC.
TRANSMITTER
MODEL: TX200

FCC SUBPART B AND FCC SUBPART C – RADIATED EMISSIONS – LAB D

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



FRONT VIEW

FOXPRO, INC.
TRANSMITTER
MODEL: TX200

FCC SUBPART B – DATA TRANSFER MODE – RADIATED EMISSIONS – LAB A

**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

FOXPRO, INC.
TRANSMITTER
MODEL: TX200

FCC SUBPART B – DATA TRANSFER MODE – RADIATED EMISSIONS – LAB A

**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

Foxpro, Inc.
Transmitter
Model: TX200

Date: 08/18/06
Labs: B and D
Tested By: Falguni Patel

Duty Cycle: 40.06%

X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	76.19	V	100.2	-24.01	Peak	3.3	0	
418	68.76	V	80.2	-11.44	Avg			
836	43.36	V	80.2	-36.84	Peak	2	90	
836	35.93	V	60.2	-24.27	Avg			
1254	34.13	V	74	-39.87	Peak	3.38	295	
1254	26.7	V	54	-27.3	Avg			
1672	42.33	V	74	-31.67	Peak	1.63	0	
1672	34.9	V	54	-19.1	Avg			
2090	48.79	V	80.8	-32.01	Peak	3.37	0	
2090	41.36	V	60.8	-19.44	Avg			
2508	38.66	V	80.8	-42.14	Peak	1	0	
2508	31.23	V	60.8	-29.57	Avg			
2926	43.64	V	80.8	-37.16	Peak	2.75	90	
2926	36.21	V	60.8	-24.59	Avg			
3344	43.81	V	74	-30.19	Peak	2.33	90	
3344	36.38	V	54	-17.62	Avg			
3762	45.62	V	74	-28.38	Peak	2.73	245	
3762	38.19	V	54	-15.81	Avg			
4180	43.25	V	74	-30.75	Peak	2.69	0	
4180	35.82	V	54	-18.18	Avg			

FCC 15.231

Foxpro, Inc.

Transmitter

Model: TX200

Date: 08/18/06

Labs: B and D

Tested By: Falguni Patel

Duty Cycle: 40.06%

X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	87.86	H	100.2	-12.34	Peak	1	45	
418	79.92	H	80.2	-0.28	Avg			
836	49.69	H	80.2	-30.51	Peak	1.1	90	
836	41.75	H	60.2	-18.45	Avg			
1254	31.17	H	74	-42.83	Peak	1.8	45	
1254	23.23	H	54	-30.77	Avg			
1672	31.64	H	74	-42.36	Peak	3.74	45	
1672	23.7	H	54	-30.3	Avg			
2090	36.7	H	80.8	-44.1	Peak	2.84	0	
2090	28.76	H	60.8	-32.04	Avg			
2508	32.12	H	80.8	-48.68	Peak	1	0	
2508	24.18	H	60.8	-36.62	Avg			
2926	34.34	H	80.8	-46.46	Peak	4	45	
2926	26.4	H	60.8	-34.4	Avg			
3344	36.16	H	74	-37.84	Peak	1	45	
3344	28.22	H	54	-25.78	Avg			
3762	36.54	H	74	-37.46	Peak	4	45	
3762	28.6	H	54	-25.4	Avg			
4180	35.07	H	74	-38.93	Peak	1	45	
4180	27.13	H	54	-26.87	Avg			

FCC 15.231

Foxpro, Inc.
Transmitter
Model: TX200

Date: 08/18/06
Labs: B and D
Tested By: Falguni Patel

Duty Cycle: 40.06%

Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	86.75	V	100.8	-14.05	Peak	1.5	225	
418	78.81	V	80.2	-1.39	Avg			
836	49.11	V	80.2	-31.09	Peak	1.5	0	
836	41.17	V	60.2	-19.03	Avg			
1254	31.21	V	74	-42.79	Peak	1	0	
1254	23.27	V	54	-30.73	Avg			
1672	42.7	V	74	-31.3	Peak	2.53	90	
1672	34.76	V	54	-19.24	Avg			
2090	45.85	V	80.8	-34.95	Peak	2.72	180	
2090	37.91	V	60.8	-22.89	Avg			
2508	34.3	V	80.8	-46.5	Peak	3.36	90	
2508	26.36	V	60.8	-34.44	Avg			
2926	43.16	V	80.8	-37.64	Peak	3.42	90	
2926	35.22	V	60.8	-25.58	Avg			
3344	38.85	V	74	-35.15	Peak	3.71	300	
3344	30.91	V	54	-23.09	Avg			
3762	45	V	74	-29	Peak	3.5	300	
3762	37.06	V	54	-16.94	Avg			
4180	40.45	V	74	-33.55	Peak	3.2	0	
4180	32.51	V	54	-21.49	Avg			

FCC 15.231

Foxpro, Inc.
Transmitter
Model: TX200

Date: 08/18/06
Labs: B and D
Tested By: Falguni Patel

Duty Cycle: 40.06%

Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	75.68	H	100.8	-25.12	Peak	1	245	
418	67.74	H	80.2	-12.46	Avg			
836	40.56	H	80.2	-39.64	Peak	1.2	0	
836	32.62	H	60.2	-27.58	Avg			
1254	33	H	74	-41	Peak	3.66	300	
1254	25.06	H	54	-28.94	Avg			
1672	45.62	H	74	-28.38	Peak	3.35	300	
1672	37.68	H	54	-16.32	Avg			
2090	41.61	H	80.8	-39.19	Peak	2.29	180	
2090	33.67	H	60.8	-27.13	Avg			
2508	32.66	H	80.8	-48.14	Peak	1.48	180	
2508	24.72	H	60.8	-36.08	Avg			
2926	37.33	H	80.8	-43.47	Peak	1.99	300	
2926	29.9	H	60.8	-30.9	Avg			
3344	37.42	H	74	-36.58	Peak	1.36	300	
3344	29.48	H	54	-24.52	Avg			
3762	38.53	H	74	-35.47	Peak	2.16	180	
3762	30.59	H	54	-23.41	Avg			
4180	35.92	H	74	-38.08	Peak	2.2	270	
4180	27.98	H	54	-26.02	Avg			

FCC 15.231

Foxpro, Inc.

Transmitter

Model: TX200

Date: 08/18/06

Labs: B and D

Tested By: Falguni Patel

Duty Cycle: 40.06%

Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	74.73	V	100.8	-26.07	Peak	3.8	180	
418	66.79	V	80.2	-13.41	Avg			
836	45.03	V	80.2	-35.17	Peak	1.9	180	
836	37.09	V	60.2	-23.11	Avg			
1254	34.22	V	74	-39.78	Peak	1.63	0	
1254	26.28	V	54	-27.72	Avg			
1672	36.96	V	74	-37.04	Peak	2.86	0	
1672	29.02	V	54	-24.98	Avg			
2090	41.42	V	80.8	-39.38	Peak	2.09	0	
2090	33.48	V	60.8	-27.32	Avg			
2508	38.13	V	80.8	-42.67	Peak	2.09	0	
2508	30.19	V	60.8	-30.61	Avg			
2926	39.28	V	80.8	-41.52	Peak	2.6	90	
2926	31.34	V	60.8	-29.46	Avg			
3344	34.29	V	74	-39.71	Peak	1.88	90	
3344	26.35	V	54	-27.65	Avg			
3762	34.24	V	74	-39.76	Peak	2.22	90	
3762	26.3	V	54	-27.7	Avg			
4180	37.94	V	74	-36.06	Peak	2.72	180	
4180	30	V	54	-24	Avg			

FCC 15.231

Foxpro, Inc.

Transmitter

Model: TX200

Date: 08/18/06

Labs: B and D

Tested By: Falguni Patel

Duty Cycle: 40.06%

Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	87.64	H	100.2	-12.56	Peak	1	90	
418	79.7	H	80.2	-0.5	Avg			
836	49.09	H	80.2	-31.11	Peak	1.2	90	
836	41.15	H	60.2	-19.05	Avg			
1254	31.36	H	74	-42.64	Peak	1	245	
1254	23.42	H	54	-30.58	Avg			
1672	31.72	H	74	-42.28	Peak	1.35	45	
1672	23.78	H	54	-30.22	Avg			
2090	34.64	H	80.8	-46.16	Peak	3.51	245	
2090	26.7	H	60.8	-34.1	Avg			
2508	32.18	H	80.8	-48.62	Peak	1.92	245	
2508	24.24	H	60.8	-36.56	Avg			
2926	34.46	H	80.8	-46.34	Peak	1	180	
2926	26.52	H	60.8	-34.28	Avg			
3344	35.96	H	74	-38.04	Peak	1.55	45	
3344	28.02	H	54	-25.98	Avg			
3762	39.37	H	74	-34.63	Peak	2.59	45	
3762	31.43	H	54	-22.57	Avg			
4180	35.34	H	74	-38.66	Peak	1.79	45	
4180	27.4	H	54	-26.6	Avg			

Foxpro, Inc.
Transmitter
Model: TX200

Date: 08/18/06
Labs: B and D
Tested By: Falguni Patel

Digital Portion and Non-Harmonic Emissions from the Transmitter - Transmit Mode

[illegible]



COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics
Customer : Foxpro, Inc.
Manufacturer : Foxpro, Inc.
Eut name : Transmitter
Model : TX200
Serial # : N/A
Specification : FCC B
Distance correction factor (20 * log(test/spec) : 0.00
Test Mode : Scan Type: Radiated Emissions
Scan Range: 10 kHz to 4.4 GHz (Vertical and Horizontal)
Data Transfer Mode
Test Engineer: Falguni Patel

Page : 1/1
Date : 8/24/2006
Time : 11:09:33
Lab : A
Test Distance : 3 Meters

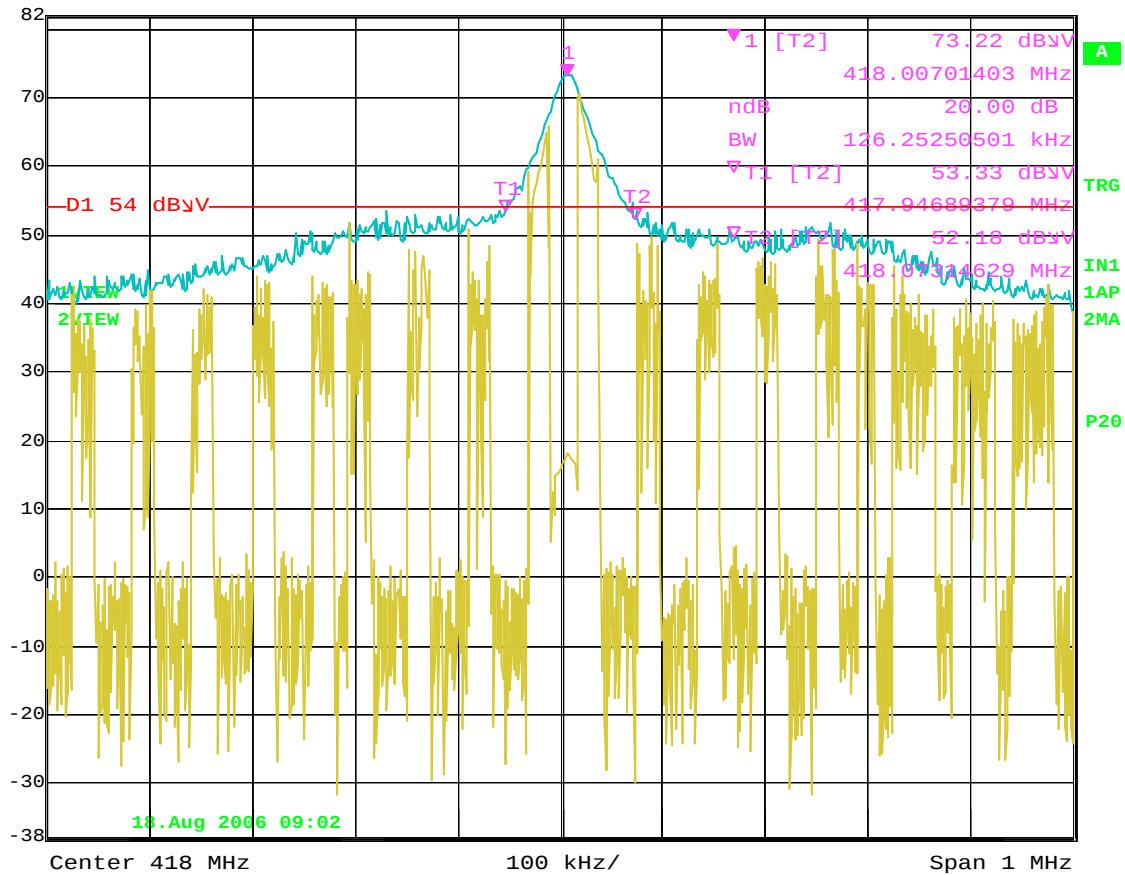
Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1V	865.910	28.40	7.33	21.32	31.34	25.71	46.00	-20.29
2V	5.680	1.40	0.42	11.27	32.60	-19.51	40.00	-59.51
3V	304.270	39.40	3.75	12.77	32.40	23.51	46.00	-22.49
4V	309.850	38.40	3.80	12.90	32.40	22.71	46.00	-23.29
5V	568.200	29.50	5.65	16.78	31.87	20.05	46.00	-25.95
6V	409.340	36.00	4.50	14.88	32.10	23.27	46.00	-22.73
7V	403.900	30.00	4.44	14.84	32.10	17.19	46.00	-28.81
8V	567.200	29.30	5.64	16.76	31.87	19.83	46.00	-26.17
9V	865.200	31.80	7.33	21.30	31.35	29.08	46.00	-16.92
10V	309.860	42.30	3.80	12.90	32.40	26.61	46.00	-19.39
11V	309.860	42.30	3.80	12.90	32.40	26.61	46.00	-19.39
12V	304.310	42.90	3.75	12.77	32.40	27.01	46.00	-18.99

-20 dB BANDWIDTH

DATA SHEET



Ref Lvl 82 dB μ V
Marker 1 [T2 ndB] 20.00 dB
BW 126.25250501 kHz
RBW 30 kHz
RF Att 10 dB
VBW 100 kHz
SWT 5.5 ms
Unit dB μ V



Date: 18.AUG.2006 09:02:28

-20 dB Bandwidth of the Fundamental