

*FCC PART 15, SUBPART B and C
TEST REPORT**for***TRANSMITTER****MODEL: ProScale GENERAL
PURPOSE DISPLAY (GPDS)**

Prepared for

ACCURATE TECHNOLOGY, INC.
270 RUTLEDGE ROAD, UNIT E
FLETCHER, NORTH CAROLINA 28732

Prepared by: _____

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DATE: OCTOBER 21, 2004

	REPORT BODY	APPENDICES					TOTAL
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1	Plot Map And Layout of 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: Transmitter
Model: ProScale General Purpose Display (GPDS)
S/N: N/A

Product Description: The EUT is the transmitter portion of a linear measuring system that is designed for the purpose of measuring linear distance displacement between two points.

Modifications: The EUT was modified during the testing in order to meet the specifications. Please see the list located in Appendix B.

Manufacturer: Accurate Technology, Inc.
270 Rutledge Road, Unit E
Fletcher, North Carolina 28732

Test Date: October 19, 2004

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: 2003

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 batteries only and cannot be plugged into the AC public mains.
2	Radiated RF Emissions, 10 kHz - 4340 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.
3	-20 dB Bandwidth of the Fundamental	Complies with the limits of Subpart C, sections 15.231 [c]



1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Transmitter Model: ProScale General Purpose Display (GPDS). The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2003. 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

Accurate Technology, Inc.

Mark Ehrnsberger V.P. Engineering

Compatible Electronics, Inc.

Kyle Fujimoto Test Engineer

Michael Christensen Lab Manager

2.4 Date Test Sample was Received

The test sample was received prior to its qualification testing on October 18, 2004.

2.5 Disposition of the Test Sample

The test sample has not yet been returned to Accurate Technology, Inc. as of October 21, 2004.

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
TX	Transmit
RX	Receive



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.

Specifics of the EUT and Peripherals Tested

The Transmitter Model: ProScale General Purpose Display (GPDS) (EUT) was connected to a scale sensor via its data port. The EUT was tested in the X and Y axis. The EUT was continuously reading the information from the scale sensor and transmitting.

Under normal operation, the EUT is normally only turned on when the user presses the SEND push button on the front of the display. The EUT sends a 22 byte data packet at 4800 baud three times with a pseudo-random delay between each packet of 75 to 150 milliseconds. The transmitter then powers down until the SEND button is pressed again. The maximum total transmit time for the entire message is approximately 320 milliseconds.

The antenna is tied to the PCB of the EUT via a metallic screw.

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



4.1.1 Cable Construction and Termination

Cable 1

This is a 2 meter braid shielded cable connecting the EUT to the scale sensor. It has an RJ-11 connector at the EUT end and is hard wired into the scale sensor. The cable was bundled to a length of 1 meter. The shield of the cable was terminated via one pin on the RJ-11 connector.



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

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
TRANSMITTER (EUT)	ACCURATE TECHNOLOGY, INC.	ProScale GENERAL PURPOSE DISPLAY (GPDS)	N/A	SMIGPDS
SCALE SENSOR	ACCURATE TECHNOLOGY, INC.	P/N: 701-1500-120	A-11388	N/A



5.2 EMI Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
Radiate Emissions Data Capture Program	Compatible Electronics	2.0	N/A	N/A	N/A
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08768	June 24, 2004	1 Year
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	3701A22262	June 24, 2004	1 Year
Quasi-Peak Adapter	Hewlett Packard	85650A	2811A01363	June 24, 2004	1 Year
EMI Receiver	Rhode & Schwarz	ESIB40	100194	November 24, 2003	1 Year
Preamplifier	Com-Power	PA-102	1017	January 6, 2004	1 Year
Biconical Antenna	Com Power	AB-900	15227	April 21, 2004	1 Year
Log Periodic Antenna	Com Power	AL-100	16203	February 18, 2004	1 Year
Antenna Mast	Com-Power	AM-100	N/A	N/A	N/A
Turntable	Com-Power	TT-100	N/A	N/A	N/A
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
Loop Antenna	Com-Power	AL-130	17089	September 4, 2004	1 Year
Horn Antenna	Antenna Research	DRG-118/A	1053	January 16, 2004	1 Year
Microwave Preamplifier	Com-Power	PA-122	25195	August 19, 2004	1 Year



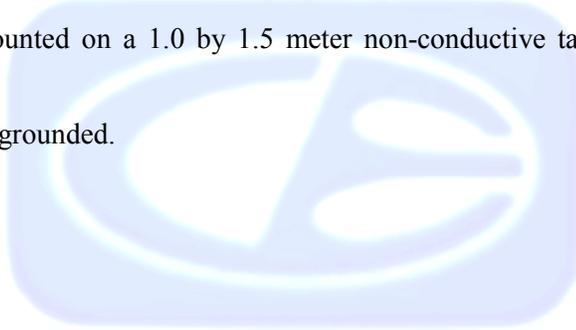
6. TEST SITE DESCRIPTION**6.1 Test Facility Description**

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 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 Preamplifier Model: PA-103 was used for frequencies from 30 MHz to 1 GHz, and the Com-Power Microwave Preamplifier Model: PA-122 was used for frequencies above 1 GHz. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer and EMI Receiver record the highest measured reading over all the sweeps.

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 4.34 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: 2003. 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.

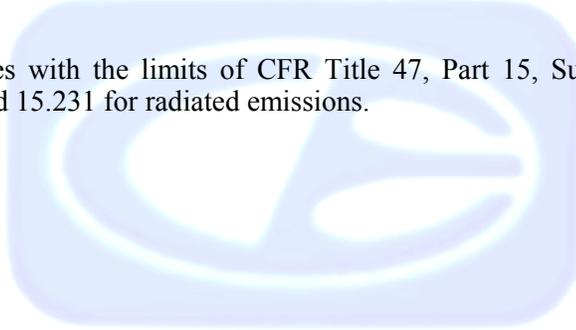


7.2 Radiated Emissions (Spurious and Harmonics) Test (continued)

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 limits of CFR Title 47, Part 15, Subpart B; and Subpart C, section 15.205, 15.209 and 15.231 for radiated emissions.



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. Data sheets of the -20 dB bandwidth are 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 Transmitter Model: ProScale General Purpose Display (GPDS) 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.

Modifications:

- 1) R21 changed to 330 ohms
- 2) R13 and R20 changed to 33 ohms
- 3) R14 changed to 22 ohms



APPENDIX C

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



ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Transmitter
Model: ProScale General Purpose Display (GPDS)
S/N: N/A

There were no additional models covered under this report.



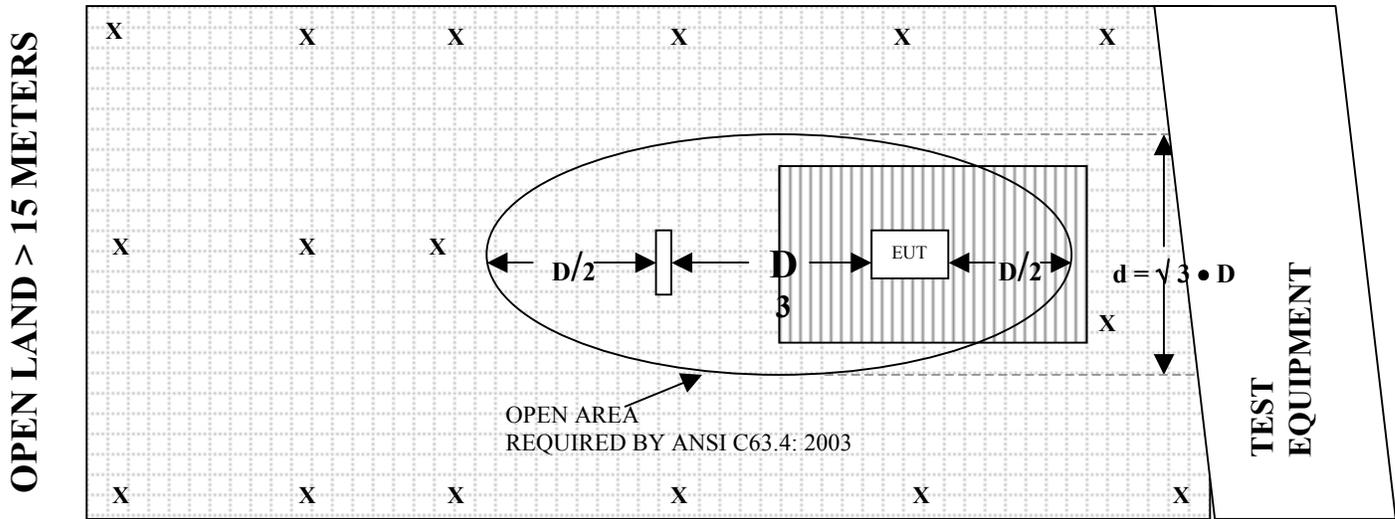
APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS



FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED TEST SITE

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS

- X** = GROUND RODS
- D** = TEST DISTANCE (meters)
- [Grid Pattern] = GROUND SCREEN
- [Wood Cover Pattern] = WOOD COVER



COM-POWER AB-900

BICONICAL ANTENNA

S/N: 15227

CALIBRATION DATE: APRIL 21, 2004

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	11.20	120	12.50
35	10.90	125	12.90
40	11.40	140	12.40
45	8.90	150	12.10
50	11.40	160	12.40
60	10.30	175	15.80
70	8.20	180	15.70
80	6.00	200	17.40
90	7.60	250	14.60
100	10.50	300	19.50



COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16203

CALIBRATION DATE: FEBRUARY 18, 2004

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	13.00	700	19.40
400	15.10	800	21.30
500	16.70	900	20.70
600	18.70	1000	22.60



COM-POWER PA-102**PREAMPLIFIER**

S/N: 1017

CALIBRATION DATE: JANUARY 6, 2004

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	37.8	300	37.6
40	37.5	350	37.5
50	37.7	400	37.5
60	37.5	450	37.0
70	37.5	500	37.1
80	37.5	550	37.3
90	37.5	600	37.1
100	37.5	650	37.4
125	37.8	700	37.1
150	37.5	750	37.1
175	37.5	800	36.8
200	37.6	850	36.2
225	37.6	900	36.7
250	37.5	950	36.2
275	37.6	1000	35.3



COM-POWER PA-122**MICROWAVE PREAMPLIFIER**

S/N: 25195

CALIBRATION DATE: AUGUST 19, 2004

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	30.50	6.0	30.57
1.1	30.24	6.5	30.39
1.2	30.44	7.0	30.08
1.3	30.38	7.5	29.92
1.4	30.11	8.0	28.88
1.5	29.91	8.5	28.08
1.6	29.74	9.0	28.08
1.7	30.26	9.5	29.11
1.8	30.41	10.0	30.21
1.9	30.19	11.0	29.00
2.0	30.37	12.0	29.10
2.5	30.69	13.0	29.77
3.0	31.63	14.0	28.67
3.5	31.61	15.0	29.72
4.0	31.46	16.0	30.54
4.5	31.45	17.0	30.05
5.0	31.33	18.0	28.47
5.5	31.15		



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

S/N: 1053

CALIBRATION DATE: JANUARY 16, 2004

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	24.4	10.0	38.7
1.5	25.2	10.5	39.0
2.0	28.2	11.0	38.9
2.5	28.5	11.5	41.3
3.0	30.1	12.0	40.5
3.5	31.0	12.5	40.0
4.0	31.2	13.0	40.2
4.5	31.9	13.5	40.5
5.0	33.2	14.0	41.6
5.5	33.7	14.5	44.8
6.0	34.3	15.0	41.4
6.5	35.0	15.5	39.2
7.0	36.7	16.0	39.4
7.5	37.3	16.5	40.9
8.0	37.1	17.0	42.6
8.5	37.3	17.5	45.1
9.0	37.7	18.0	41.7
9.5	38.6		



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

S/N: 17089

CALIBRATION DATE: SEPTEMBER 3, 2004

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-40.8	10.7
0.01	-40.9	10.6
0.02	-41.8	9.7
0.05	-42.0	9.5
0.07	-41.5	10.0
0.1	-41.7	9.8
0.2	-44.1	7.4
0.3	-41.6	9.9
0.5	-41.5	10.0
0.7	-41.4	10.1
1	-41.0	10.5
2	-40.6	10.9
3	-40.8	10.7
4	-41.0	10.5
5	-40.4	11.1
10	-40.7	10.8
15	-41.6	9.9
20	-41.3	10.2
25	-43.0	8.5
30	-42.6	8.9





FRONT VIEW

ACCURATE TECHNOLOGY, INC.
TRANSMITTER

MODEL: ProScale GENERAL PURPOSE DISPLAY (GPDS)
FCC SUBPART B AND C – LAB B – RADIATED EMISSIONS – 10-19-04

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





REAR VIEW

ACCURATE TECHNOLOGY, INC.
TRANSMITTER

MODEL: ProScale GENERAL PURPOSE DISPLAY (GPDS)
FCC SUBPART B AND C – LAB B – RADIATED EMISSIONS – 10-19-04

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





FRONT VIEW

ACCURATE TECHNOLOGY, INC.
TRANSMITTER

MODEL: ProScale GENERAL PURPOSE DISPLAY (GPDS)
FCC SUBPART B AND C – LAB D – RADIATED EMISSIONS – 10-19-04

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





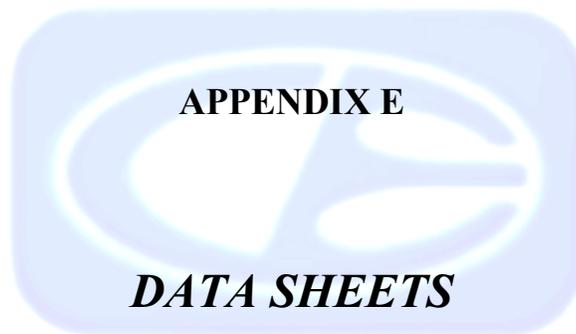
REAR VIEW

ACCURATE TECHNOLOGY, INC.
TRANSMITTER

MODEL: ProScale GENERAL PURPOSE DISPLAY (GPDS)
FCC SUBPART B AND C – LAB D – RADIATED EMISSIONS – 10-19-04

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





RADIATED EMISSIONS

DATA SHEETS



FCC 15.231

Accurate Technology, Inc.

Transmitter

Model: ProScale General Purpose Display (GPDS)

Configuration: Transmit Mode in the X Axis

Date: 10/19/04

Lab: B

Tested By: Kyle Fujimoto

Duty Cycle: 59.3%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	80	V	100.8	-20.8	Peak	1.5	225	
433.92	75.4611	V	80.8	-5.3389	Avg	1.5	225	
867.84	40.9	V	80.8	-39.9	Peak	2	180	
867.84	36.3611	V	60.8	-24.439	Avg	2	180	
1301.76	32.56	V	74	-41.44	Peak	2.38	180	
1301.76	28.0211	V	54	-25.979	Avg	2.38	180	
1735.7	34.22	V	80.8	-46.58	Peak	2.38	0	
1735.7	29.6811	V	60.8	-31.119	Avg	2.38	0	
2169.6	35.91	V	80.8	-44.89	Peak	2.36	90	
2169.6	31.3711	V	60.8	-29.429	Avg	2.36	90	
2603.52		V	80.8	-80.8	Peak			No Emission
2603.52		V	60.8	-60.8	Avg			Found
3037.44		V	80.8	-80.8	Peak			No Emission
3037.44		V	60.8	-60.8	Avg			Found
3471.36		V	80.8	-80.8	Peak			No Emission
3471.36		V	60.8	-60.8	Avg			Found
3905.28		V	74	-74	Peak			No Emission
3905.28		V	54	-54	Avg			Found
4339.2		V	74	-74	Peak			No Emission
4339.2		V	54	-54	Avg			Found

FCC 15.231

Accurate Technology, Inc.

Transmitter

Model: ProScale General Purpose Display (GPDS)

Configuration: Transmit Mode in the Y Axis

Date: 10/19/04

Lab: B

Tested By: Kyle Fujimoto

Duty Cycle: 59.3%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	79.6	V	100.8	-21.2	Peak	1.5	225	
433.92	75.0611	V	80.8	-5.7389	Avg	1.5	225	
867.84	41.5	V	80.8	-39.3	Peak	1	45	
867.84	36.9611	V	60.8	-23.839	Avg	1	45	
1301.76	33.05	V	74	-40.95	Peak	1.91	225	
1301.76	28.5111	V	54	-25.489	Avg	1.91	225	
1735.7	36.05	V	80.8	-44.75	Peak	1.56	45	
1735.7	31.5111	V	60.8	-29.289	Avg	1.56	45	
2169.6	35.94	V	80.8	-44.86	Peak	1.21	315	
2169.6	31.4011	V	60.8	-29.399	Avg	1.21	315	
2603.52		V	80.8	-80.8	Peak			No Emission Found
2603.52		V	60.8	-60.8	Avg			
3037.44		V	80.8	-80.8	Peak			No Emission Found
3037.44		V	60.8	-60.8	Avg			
3471.36		V	80.8	-80.8	Peak			No Emission Found
3471.36		V	60.8	-60.8	Avg			
3905.28		V	74	-74	Peak			No Emission Found
3905.28		V	54	-54	Avg			
4339.2		V	74	-74	Peak			No Emission Found
4339.2		V	54	-54	Avg			

FCC 15.231

Accurate Technology, Inc.

Transmitter

Model: ProScale General Purpose Display (GPDS)

Configuration: Transmit Mode in the X Axis

Date: 10/19/04

Lab: B

Tested By: Kyle Fujimoto

Duty Cycle: 59.3%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	80.9	H	100.8	-19.9	Peak	1.5	180	
433.92	76.3611	H	80.8	-4.4389	Avg	1.5	180	
867.84	45.5	H	80.8	-35.3	Peak	2	90	
867.84	40.9611	H	60.8	-19.839	Avg	2	90	
1301.76	32.37	H	74	-41.63	Peak	2.26	45	
1301.76	27.8311	H	54	-26.169	Avg	2.26	45	
1735.7	34.31	H	80.8	-46.49	Peak	2.27	270	
1735.7	29.7711	H	60.8	-31.029	Avg	2.27	270	
2169.6	35.65	H	80.8	-45.15	Peak	1.85	225	
2169.6	31.1111	H	60.8	-29.689	Avg	1.85	225	
2603.52		H	80.8	-80.8	Peak			No Emission Found
2603.52		H	60.8	-60.8	Avg			
3037.44		H	80.8	-80.8	Peak			No Emission Found
3037.44		H	60.8	-60.8	Avg			
3471.36		H	80.8	-80.8	Peak			No Emission Found
3471.36		H	60.8	-60.8	Avg			
3905.28		H	74	-74	Peak			No Emission Found
3905.28		H	54	-54	Avg			
4339.2		H	74	-74	Peak			No Emission Found
4339.2		H	54	-54	Avg			

FCC 15.231

Accurate Technology, Inc.

Transmitter

Model: ProScale General Purpose Display (GPDS)

Configuration: Transmit Mode in the Y Axis

Date: 10/19/04

Lab: B

Tested By: Kyle Fujimoto

Duty Cycle: 59.3%

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
433.92	83.5	H	100.8	-17.3	Peak	1.5	180	
433.92	78.9611	H	80.8	-1.8389	Avg	1.5	180	
867.84	39.7	H	80.8	-41.1	Peak	2	180	
867.84	35.1611	H	60.8	-25.639	Avg	2	180	
1301.76	31.42	H	74	-42.58	Peak	1.59	180	
1301.76	26.8811	H	54	-27.119	Avg	1.59	180	
1735.7	35.46	H	80.8	-45.34	Peak	2.48	90	
1735.7	30.9211	H	60.8	-29.879	Avg	2.48	90	
2169.6	36.29	H	80.8	-44.51	Peak	2.75	270	
2169.6	31.7511	H	60.8	-29.049	Avg	2.75	270	
2603.52		H	80.8	-80.8	Peak			No Emission Found
2603.52		H	60.8	-60.8	Avg			
3037.44		H	80.8	-80.8	Peak			No Emission Found
3037.44		H	60.8	-60.8	Avg			
3471.36		H	80.8	-80.8	Peak			No Emission Found
3471.36		H	60.8	-60.8	Avg			
3905.28		H	74	-74	Peak			No Emission Found
3905.28		H	54	-54	Avg			
4339.2		H	74	-74	Peak			No Emission Found
4339.2		H	54	-54	Avg			



Test Location : Compatible Electronics **Page** : 1/1
Customer : Accurate Technology, Inc. **Date** : 10/19/2004
Manufacturer : Accurate Technology, Inc. **Time** : 23:55:39
Eut name : Transmitter **Lab** : D
Specification : FCC Class B **Test Distance** : 3.0 Meters
Serial # : N/A
Model : ProScale General Purpose Display (GPDS)
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Spurious Emissions - 10 kHz to 4400 MHz
 Vertical and Horizontal Polarization
 EUT Continuously Transmitting - X Axis Worst Case
 Tested By: Kyle Fujimoto

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	30.000	49.90	0.80	11.20	37.80	24.10	40.00	-15.90
2H	30.276	35.90	0.81	11.18	37.79	10.10	40.00	-29.90
3V	32.000	52.60	0.84	11.07	37.73	26.79	40.00	-13.21
4V	34.106	54.20	0.89	10.95	37.67	28.37	40.00	-11.63
5V	56.106	54.10	1.13	10.70	37.57	28.36	40.00	-11.64
6H	58.276	45.30	1.17	10.48	37.53	19.41	40.00	-20.59
7V	62.106	50.60	1.22	9.83	37.50	24.15	40.00	-15.85
8V	98.974	57.30	1.49	10.22	37.50	31.51	43.50	-11.99
9V	108.796	51.10	1.54	11.42	37.61	26.45	43.50	-17.05
10H	148.130	47.80	1.88	12.15	37.52	24.31	43.50	-19.19
11H	216.024	42.00	2.17	16.43	37.60	23.00	46.00	-23.00
12V	264.020	40.20	2.40	16.66	37.56	21.70	46.00	-24.30
13V	300.078	35.60	2.60	13.00	37.60	13.60	46.00	-32.40
14H	312.024	38.30	2.63	13.29	37.57	16.64	46.00	-29.36
15H	320.006	40.70	2.64	13.47	37.56	19.26	46.00	-26.74
16H	336.037	41.90	2.67	13.83	37.53	20.88	46.00	-25.12
17V	336.084	41.30	2.67	13.83	37.53	20.28	46.00	-25.72
18H	400.037	41.20	3.10	15.10	37.50	21.90	46.00	-24.10
19V	462.084	37.30	3.55	16.13	37.03	19.96	46.00	-26.04
20H	480.019	41.80	3.48	16.41	37.06	24.62	46.00	-21.38
21H	500.019	41.70	3.40	16.70	37.10	24.70	46.00	-21.30
22H	528.078	42.70	3.63	17.30	37.21	26.41	46.00	-19.59
23V	716.084	46.10	4.50	19.72	37.10	33.22	46.00	-12.78
24H	734.078	31.90	4.61	20.08	37.10	19.48	46.00	-26.52
25V	1000.084	33.50	5.70	22.60	35.30	26.50	54.00	-27.50

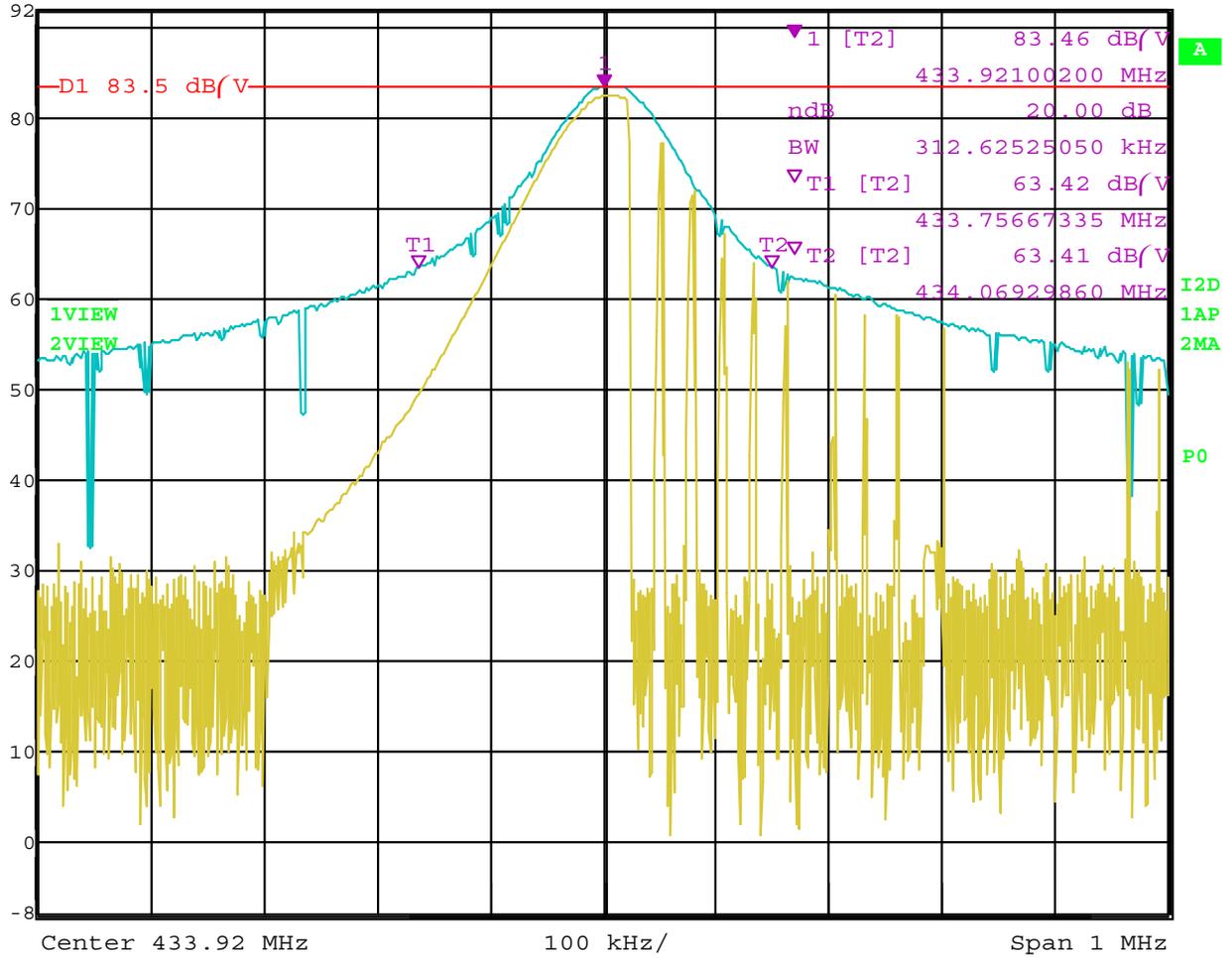
-20 dB BANDWIDTH

DATA SHEET





Ref Lvl 92 dB/V
Marker 1 [T2 ndB] 20.00 dB
BW 312.62525050 kHz
RBW 100 kHz
RF Att 0 dB
VBW 100 kHz
SWT 5 ms
Unit dB/V



Date: 19.OCT.2004 23:34:41

-20 dB Bandwidth of the Fundamental