FCC PART 15, SUBPART B and C
TEST REPORT

for

FLATBED WIRELESS BALE LOADER - TRANSMITTER

PRODUCT NUMBER: D003-002-01

Prepared for
DIGITEC, INC.
2731 VAN DORN ROAD
MILFORD, NEBRASKA 68405

Prepared by:_____

KYLE FUJIMOTO

Approved by:_____

MICHAEL CHRISTENSEN

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114 OLINDA DRIVE
BREA, CALIFORNIA 92823
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DATE: SEPTEMBER 25, 2003

	REPORT BODY	APPENDICES					TOTAL
		A	***B***	***C***	***D***	***E***	
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1	Plot Map And Layout of 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:	Flatbed Wireless Bale Loader - Transmitter Product Number: D003-002-01 S/N: N/A
Product Description:	See Expository Statement
Modifications:	The EUT was not modified in order to meet the specifications.
Manufacturer:	Digitec, Inc. 2371 Van Dorn Road Milford, Nebraska 68405
Test Date:	September 15, 2003
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: 2001
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 DC power only and cannot be plugged into the AC public mains.
2	Radiated RF Emissions, 10 kHz - 3200 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 Flatbed Wireless Bale Loader - Transmitter Product Number: D003-002-01. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2001. 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

Digitec, Inc.

Dan Pickerill	President

Compatible Electronics, Inc.

Kyle Fujimoto	Test Engineer
Michael Christensen	Sr. Test Engineer

2.4 Date Test Sample was Received

The test sample was received on September 15, 2003.

2.5 Disposition of the Test Sample

The sample has not been returned to Digitec, Inc. as of September 25, 2003.

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

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 2001	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 Flatbed Wireless Bale Loader - Transmitter Product Number: D003-002-01 (EUT) was tested as a stand alone unit. The EUT was continuously transmitting and tested in three orthogonal axis. The antenna is a "Splatch" antenna soldered onto the PCB. During normal operation, the EUT will turn off as soon as a button is no longer pressed on the EUT.

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 are no external cables connected to the EUT.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	PRODUCT NUMBER	SERIAL NUMBER	FCC ID
FLATBED WIRELESS BALE LOADER - TRANSMITTER (EUT)	DIGITEC, INC.	D003-002-01	N/A	**RHWD003-002-01**

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. DUE DATE
Radiate Emissions Data Capture Program	Compatible Electronics	2.0	N/A	N/A	N/A
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08767	June 25, 2003	June 25, 2004
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	3701A22262	June 25, 2003	June 25, 2004
Quasi-Peak Adapter	Hewlett Packard	85650A	2811A01363	June 24, 2003	June 24, 2004
EMI Test Receiver	Rohde & Schwarz	ESIB40	100172	July 22, 2003	July 22, 2004
Preamplifier	Com Power	PA-102	1017	January 2, 2003	Jan. 2, 2004
Biconical Antenna	Com Power	AB-100	1548	September 19, 2002	Sept. 19, 2003
Log Periodic Antenna	Com Power	AL-100	16089	October 4, 2002	Oct. 4, 2003
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	25310	June 4, 2003	June 4, 2004
Horn Antenna	Antenna Research	DRG-119/A	1053	January 13, 2002	Jan. 13, 2004
Microwave Preamplifier	Com-Power	PA-122	25196	January 10, 2003	Jan. 10, 2004

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 was 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-102 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 records 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 3.20 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: 2001. 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.

Radiated Emissions (Spurious and Harmonics) Test (con't)

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

8. CONCLUSIONS

The Flatbed Wireless Bale Loader - Transmitter Product Number: D003-002-01 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

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Flatbed Wireless Bale Loader - Transmitter
Product Number: D003-002-01
S/N: N/A

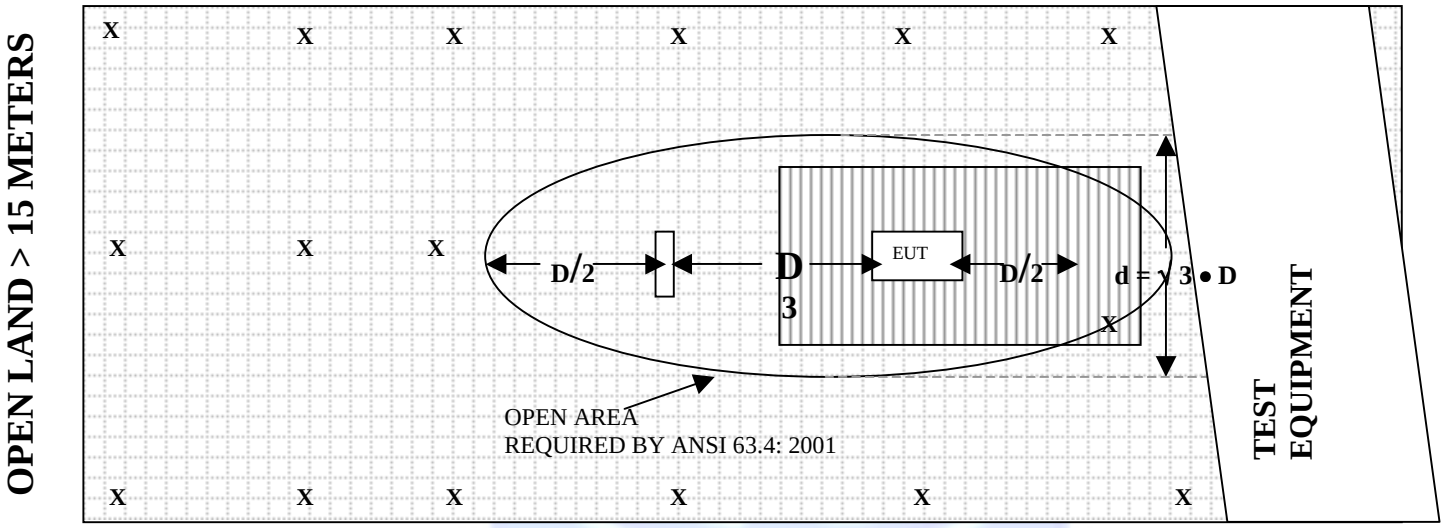
There were no additional models covered under this report.

APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS

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

COM-POWER AB-100

BICONICAL ANTENNA

S/N: 01548

CALIBRATION DATE: SEPTEMBER 19, 2002

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	14.30	120	10.70
35	14.00	125	11.40
40	13.70	140	12.70
45	12.00	150	12.50
50	11.40	160	12.90
60	9.70	175	14.10
70	8.30	180	14.70
80	7.60	200	15.10
90	7.80	250	16.90
100	8.60	300	19.10

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16089

CALIBRATION DATE: OCTOBER 4, 2002

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	13.10	700	17.70
350	14.40	750	19.60
400	14.30	800	20.50
450	15.70	850	21.20
500	16.60	900	21.20
550	16.60	950	22.50
600	17.30	1000	24.60
650	18.80		

COM-POWER PA-102

PREAMPLIFIER

S/N: 1017

CALIBRATION DATE: JANUARY 2, 2003

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	38.4	300	38.3
40	38.4	350	38.3
50	38.3	400	38.3
60	38.4	450	37.9
70	38.4	500	38.1
80	38.4	550	38.2
90	38.4	600	38.1
100	38.3	650	37.9
125	38.4	700	37.9
150	38.4	750	37.7
175	38.2	800	37.4
200	38.4	850	37.6
225	38.2	900	37.4
250	38.3	950	36.7
275	38.5	1000	37.0

COM-POWER PA-122

MICROWAVE PREAMPLIFIER

S/N: 25196

CALIBRATION DATE: JANUARY 10, 2003

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	32.3	6.0	27.9
1.1	32.6	6.5	28.9
1.2	32.4	7.0	29.2
1.3	32.1	7.5	29.3
1.4	31.8	8.0	29.4
1.5	31.7	8.5	28.5
1.6	31.6	9.0	28.7
1.7	31.6	9.5	27.9
1.8	31.0	10.0	27.0
1.9	32.0	11.0	26.9
2.0	31.0	12.0	28.7
2.5	30.5	13.0	28.6
3.0	30.5	14.0	28.7
3.5	30.0	15.0	27.1
4.0	30.0	16.0	26.1
4.5	29.9	17.0	26.0
5.0	29.7	18.0	23.9
5.5	30.2		

ANTENNA RESEARCH DRG-118/A

HORN ANTENNA

S/N: 1053

CALIBRATION DATE: JANUARY 13, 2002

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	25.5	10.0	39.7
1.5	26.6	10.5	40.9
2.0	29.4	11.0	40.7
2.5	30.4	11.5	42.4
3.0	31.2	12.0	42.6
3.5	32.3	12.5	42.4
4.0	32.9	13.0	41.5
4.5	33.0	13.5	41.0
5.0	34.8	14.0	40.5
5.5	35.2	14.5	43.6
6.0	36.4	15.0	43.7
6.5	36.6	15.5	43.3
7.0	38.8	16.0	42.8
7.5	38.8	16.5	43.0
8.0	38.0	17.0	42.7
8.5	38.1	17.5	44.0
9.0	39.9	18.0	41.8
9.5	39.1		

COM-POWER AL-130

LOOP ANTENNA

S/N: 25310

CALIBRATION DATE: JUNE 4, 2003

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-41.2	10.3
0.01	-41.3	10.2
0.02	-42.3	9.2
0.05	-42.5	9.0
0.07	-42.3	9.2
0.1	-42.5	9.0
0.2	-44.6	6.9
0.3	-42.1	9.4
0.5	-42.4	9.1
0.7	-42.1	9.4
1	-41.5	10.0
2	-41.0	10.5
3	-41.3	10.2
4	-41.3	10.2
5	-40.9	10.6
10	-41.6	9.9
15	-42.1	9.4
20	-42.2	9.3
25	-42.7	8.8
30	-44.3	7.2

FRONT VIEW

DIGITEC, INC.
FLATBED WIRELESS BALE LOADER - TRANSMITTER
PRODUCT NUMBER: D003-002-01
FCC SUBPART B AND C ABOVE 1 GHz - RADIATED EMISSIONS – 09-15-03

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

DIGITEC, INC.
FLATBED WIRELESS BALE LOADER - TRANSMITTER
PRODUCT NUMBER: D003-002-01
FCC SUBPART B AND C ABOVE 1 GHz - RADIATED EMISSIONS – 09-15-03

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DIGITEC, INC.
FLATBED WIRELESS BALE LOADER - TRANSMITTER
PRODUCT NUMBER: D003-002-01
FCC SUBPART B AND C BELOW 1 GHz - RADIATED EMISSIONS – 09-15-03

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

REAR VIEW

DIGITEC, INC.
FLATBED WIRELESS BALE LOADER - TRANSMITTER
PRODUCT NUMBER: D003-002-01
FCC SUBPART B AND C BELOW 1 GHz - RADIATED EMISSIONS – 09-15-03

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

APPENDIX E

DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	**DIGITEC, INC.**	**DATE**	**9/15/03**
EUT	**FLATBED WIRELESS BALE LOADER - TRANSMITTER**	**DUTY CYCLE**	**47.4777 %**
MODEL	**PRODUCT NUMBER: D003-002-01**	**PEAK TO AVG**	**-6.47020656 dB**
S/N	**N/A**	**TEST DIST.**	**3 Meters**
TEST ENGINEER	**Kyle Fujimoto**	**LAB**	**D**

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
315.0000	65.1	58.7 A	H	1.0	90	X	LOW	13.5	3.4	0.0	0.0	0.0	**75.6**	**0.0**	**75.6**	
315.0000	50.7	44.3 A	H	2.0	180	Y	LOW	13.5	3.4	0.0	0.0	0.0	**61.2**	**-14.4**	**75.6**	
315.0000	64.1	57.7 A	H	2.0	90	Z	LOW	13.5	3.4	0.0	0.0	0.0	**74.6**	**-1.0**	**75.6**	
315.0000	60.2	53.8 A	V	2.0	180	X	LOW	13.5	3.4	0.0	0.0	0.0	**70.7**	**-4.9**	**75.6**	
315.0000	60.8	54.4 A	V	2.0	90	Y	LOW	13.5	3.4	0.0	0.0	0.0	**71.3**	**-4.3**	**75.6**	
315.0000	52.5	46.1 A	V	2.0	0	Z	LOW	13.5	3.4	0.0	0.0	0.0	**63.0**	**-12.6**	**75.6**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	**DIGITEC, INC.**	**DATE**	**9/15/03**
EUT	**FLATBED WIRELESS BALE LOADER - TRANSMITTER**	**DUTY CYCLE**	**47.4777 %**
MODEL	**PRODUCT NUMBER: D003-002-01**	**PEAK TO AVG**	**-6.47020656 dB**
S/N	**N/A**	**TEST DIST.**	**3 Meters**
TEST ENGINEER	**Kyle Fujimoto**	**LAB**	**D**

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
630.0000	47.6	41.2 A	H	2.0	90	X	LOW	18.2	4.8	38.0	0.0	0.0	**26.2**	**-29.4**	**55.6**	
630.0000	47.7	41.3 A	H	1.0	90	Y	LOW	18.2	4.8	38.0	0.0	0.0	**26.3**	**-29.3**	**55.6**	
630.0000	46.9	40.5 A	H	3.0	0	Z	LOW	18.2	4.8	38.0	0.0	0.0	**25.5**	**-30.1**	**55.6**	
630.0000	49.8	43.4 A	V	2.0	0	X	LOW	18.2	4.8	38.0	0.0	0.0	**28.4**	**-27.2**	**55.6**	
630.0000	51.0	44.6 A	V	1.0	0	Y	LOW	18.2	4.8	38.0	0.0	0.0	**29.6**	**-26.0**	**55.6**	
630.0000	46.3	39.9 A	V	1.0	0	Z	LOW	18.2	4.8	38.0	0.0	0.0	**24.9**	**-30.7**	**55.6**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	**DIGITEC, INC.**	**DATE**	**9/15/03**
EUT	**FLATBED WIRELESS BALE LOADER - TRANSMITTER**	**DUTY CYCLE**	**47.4777 %**
MODEL	**PRODUCT NUMBER: D003-002-01**	**PEAK TO AVG**	**-6.47020656 dB**
S/N	**N/A**	**TEST DIST.**	**3 Meters**
TEST ENGINEER	**Kyle Fujimoto**	**LAB**	**D**

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
945.0000	43.8	37.4 A	H	1.0	0	X	LOW	22.4	5.9	36.8	0.0	0.0	**28.9**	**-26.7**	**55.6**	
945.0000	40.0	33.6 A	H	1.0	180	Y	LOW	22.4	5.9	36.8	0.0	0.0	**25.1**	**-30.5**	**55.6**	
945.0000	42.9	36.5 A	H	1.0	0	Z	LOW	22.4	5.9	36.8	0.0	0.0	**28.0**	**-27.6**	**55.6**	
945.0000	43.2	36.8 A	V	1.0	90	X	LOW	22.4	5.9	36.8	0.0	0.0	**28.3**	**-27.3**	**55.6**	
945.0000	47.0	40.6 A	V	1.5	0	Y	LOW	22.4	5.9	36.8	0.0	0.0	**32.1**	**-23.5**	**55.6**	
945.0000	44.5	38.1 A	V	1.0	0	Z	LOW	22.4	5.9	36.8	0.0	0.0	**29.6**	**-26.0**	**55.6**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	**DIGITEC, INC.**	**DATE**	**9/15/03**
EUT	**FLATBED WIRELESS BALE LOADER - TRANSMITTER**	**DUTY CYCLE**	**47.4777 %**
MODEL	**PRODUCT NUMBER: D003-002-01**	**PEAK TO AVG**	**-6.47020656 dB**
S/N	**N/A**	**TEST DIST.**	**3 Meters**
TEST ENGINEER	**Kyle Fujimoto**	**LAB**	**B**

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
1260.0000	48.0	41.6 A	H	1.0	90	X	LOW	26.1	2.0	32.2	0.0	0.0	**37.4**	**-18.2**	**55.6**	
1260.0000	50.6	44.2 A	H	1.0	0	Y	LOW	26.1	2.0	32.2	0.0	0.0	**40.0**	**-15.6**	**55.6**	
1260.0000	47.6	41.2 A	H	1.5	90	Z	LOW	26.1	2.0	32.2	0.0	0.0	**37.1**	**-18.5**	**55.6**	
1260.0000	49.1	42.7 A	V	1.0	90	X	LOW	26.1	2.0	32.2	0.0	0.0	**38.6**	**-17.0**	**55.6**	
1260.0000	46.6	40.2 A	V	1.5	90	Y	LOW	26.1	2.0	32.2	0.0	0.0	**36.0**	**-19.6**	**55.6**	
1260.0000	51.7	45.3 A	V	1.0	90	Z	LOW	26.1	2.0	32.2	0.0	0.0	**41.2**	**-14.4**	**55.6**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	**DIGITEC, INC.**	**DATE**	**9/15/03**
EUT	**FLATBED WIRELESS BALE LOADER - TRANSMITTER**	**DUTY CYCLE**	**47.4777 %**
MODEL	**PRODUCT NUMBER: D003-002-01**	**PEAK TO AVG**	**-6.47020656 dB**
S/N	**N/A**	**TEST DIST.**	**3 Meters**
TEST ENGINEER	**Kyle Fujimoto**	**LAB**	**B**

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
1575.0000	42.0	35.6 A	H	1.5	90	X	LOW	27.0	2.5	31.6	0.0	0.0	**33.5**	**-20.5**	**54.0**	
1575.0000	43.0	36.6 A	H	1.5	90	Y	LOW	27.0	2.5	31.6	0.0	0.0	**34.4**	**-19.6**	**54.0**	
1575.0000	43.5	37.1 A	V	1.0	90	X	LOW	27.0	2.5	31.6	0.0	0.0	**34.9**	**-19.1**	**54.0**	
1575.0000	45.0	38.6 A	V	1.5	270	X	LOW	27.0	2.5	31.6	0.0	0.0	**36.4**	**-17.6**	**54.0**	
1575.0000	46.0	39.6 A	V	1.5	90	Y	LOW	27.0	2.5	31.6	0.0	0.0	**37.4**	**-16.6**	**54.0**	
1575.0000	41.7	35.3 A	V	1.0	90	X	LOW	27.0	2.5	31.6	0.0	0.0	**33.1**	**-20.9**	**54.0**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	**DIGITEC, INC.**	**DATE**	**9/15/03**
EUT	**FLATBED WIRELESS BALE LOADER - TRANSMITTER**	**DUTY CYCLE**	**47.4777 %**
MODEL	**PRODUCT NUMBER: D003-002-01**	**PEAK TO AVG**	**-6.47020656 dB**
S/N	**N/A**	**TEST DIST.**	**3 Meters**
TEST ENGINEER	**Kyle Fujimoto**	**LAB**	**B**

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
1890.0000	44.4	38.0 A	H	1.5	90	X	LOW	28.8	2.6	31.9	0.0	0.0	**37.4**	**-18.2**	**55.6**	
1890.0000	46.7	40.3 A	H	1.5	90	Y	LOW	28.8	2.6	31.9	0.0	0.0	**39.8**	**-15.8**	**55.6**	
1890.0000	40.9	34.5 A	H	1.5	90	Z	LOW	28.8	2.6	31.9	0.0	0.0	**33.9**	**-21.7**	**55.6**	
1890.0000	42.6	36.2 A	V	1.5	90	X	LOW	28.8	2.6	31.9	0.0	0.0	**35.6**	**-20.0**	**55.6**	
1890.0000	43.4	37.0 A	V	1.5	90	Y	LOW	28.8	2.6	31.9	0.0	0.0	**36.5**	**-19.1**	**55.6**	
1890.0000	47.5	41.1 A	V	2.0	90	Z	LOW	28.8	2.6	31.9	0.0	0.0	**40.6**	**-15.0**	**55.6**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.205 AND 15.231)

COMPANY	**DIGITEC, INC.**	**DATE**	**9/15/03**
EUT	**FLATBED WIRELESS BALE LOADER - TRANSMITTER**	**DUTY CYCLE**	**47.4777 %**
MODEL	**PRODUCT NUMBER: D003-002-01**	**PEAK TO AVG**	**-6.47020656 dB**
S/N	**N/A**	**TEST DIST.**	**3 Meters**
TEST ENGINEER	**Kyle Fujimoto**	**LAB**	**B**

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit (dBuV/m)	Comments
2205.0000	40.0	33.6 A	H	2.0	90	X	LOW	29.8	3.9	30.8	0.0	0.0	**36.5**	**-17.5**	**54.0**	**No Harmonics nor**
2205.0000	41.5	35.1 A	H	1.5	90	Y	LOW	29.8	3.9	30.8	0.0	0.0	**38.0**	**-16.0**	**54.0**	**Emissions Found**
2205.0000	40.4	34.0 A	H	1.5	90	Z	LOW	29.8	3.9	30.8	0.0	0.0	**36.9**	**-17.1**	**54.0**	**After the 7th Harmonic**
2205.0000	41.0	34.6 A	V	1.5	90	X	LOW	29.8	3.9	30.8	0.0	0.0	**37.5**	**-16.5**	**54.0**	
2205.0000	39.6	33.2 A	V	1.0	180	Y	LOW	29.8	3.9	30.8	0.0	0.0	**36.1**	**-17.9**	**54.0**	
2205.0000	38.3	31.9 A	V	1.0	90	Z	LOW	29.8	3.9	30.8	0.0	0.0	**34.8**	**-19.2**	**54.0**	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

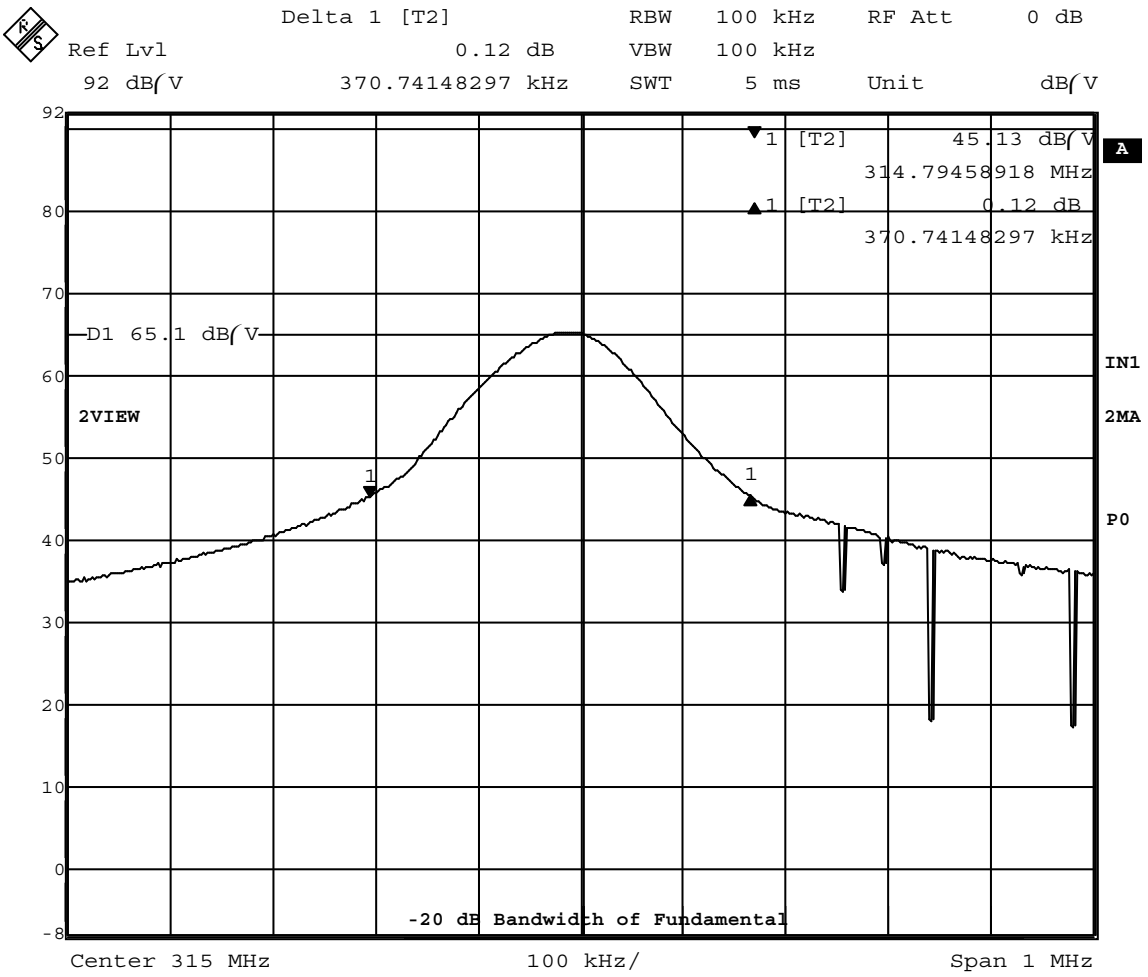
** DELTA = SPEC LIMIT - CORRECTED READING

Test Location : Compatible Electronics **Page** : 1/1
Customer : Digitec, Inc. **Date** : 9/15/2003
Manufacturer : Digitec, Inc. **Time** : 16:18:09
Eut name : Flatbed Wireless Bale Loader - Transmitter **Lab** : D
Product Number : D003-002-01 **Test Distance** : 3.0 Meters
Serial # : N/A
Specification : FCC Class B
Distance correction factor (20 * log(test/spec)) : 0.00
Test Mode : Spurious Emissions From the EUT
10 kHz to 3200 MHz - Vertical and Horizontal Polariation
Temperature 78 Degrees F., Relative Humidity 55%
Tested By: Kyle Fujimoto

Pol	Freq	Rdng	Cable loss	Ant factor	Amp gain	Cor'd rdg = R	Limit = L	Delta R-L
	MHz	dBuV	dB	dB	dB	dBuV	dBuV/m	dB
1H	32.000	47.40	0.84	14.17	38.40	24.02	40.00	-15.98
2H	36.000	41.90	0.93	13.94	38.40	18.36	40.00	-21.64
3H	40.000	42.80	1.00	13.70	38.40	19.10	40.00	-20.90
4H	44.000	40.80	1.00	12.32	38.36	15.77	40.00	-24.23
5H	48.000	43.50	1.00	11.63	38.32	17.81	40.00	-22.19
6H	52.000	35.30	1.09	11.03	38.32	9.10	40.00	-30.90
7V	64.000	36.30	1.48	9.11	38.40	8.50	40.00	-31.50
8V	76.000	41.40	1.66	7.87	38.40	12.53	40.00	-27.47
9V	80.000	43.20	1.70	7.60	38.40	14.10	40.00	-25.90
10V	84.000	43.00	1.70	7.68	38.40	13.98	40.00	-26.02
11V	112.000	43.60	1.95	9.91	38.35	17.11	43.50	-26.39
12V	116.000	42.40	1.97	10.31	38.37	16.31	43.50	-27.19

-20 dB BANDWIDTH

DATA SHEET


Delta 1 [T2]
RBW 100 kHz
RF Att 0 dB
Ref Lvl
0.12 dB
VBW 100 kHz
92 dBµV
370.74148297 kHz
SWT 5 ms
Unit dBµV
1 [T2] 45.13 dBµV
314.79458918 MHz
1 [T2] 0.12 dB
370.74148297 kHz
D1 65.1 dBµV
2VIEW
IN1
2MA
P0
A
-20 dB Bandwidth of Fundamental
Center 315 MHz
100 kHz/
Span 1 MHz
Date: 15.SEP.2003 20:35:01