

*FCC PART 15, SUBPART B and C
TEST REPORT**for***TRANSMITTER****MODEL: PROJACK M1**

Prepared for

**MOV-A-LOAD CORPORATION
2245 INDUSTRIAL ROAD
DYERSBURG, TENNESSEE 38024**

Prepared by: _____

KYLE FUJIMOTO

Approved by: _____

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DATE: JULY 19, 2005

	REPORT BODY	APPENDICES					TOTAL
		A	B	C	D	E	
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LIST OF FIGURES

FIGURE	TITLE
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: Projack M1
S/N: N/A

Product Description: See Expository Statement.

Modifications: The EUT was not modified during the testing.

Manufacturer: Mov-A-Load Corporation
2245 Industrial Road
Dyersburg, Tennessee 38024

Test Dates: July 5 and 8, 2005

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.

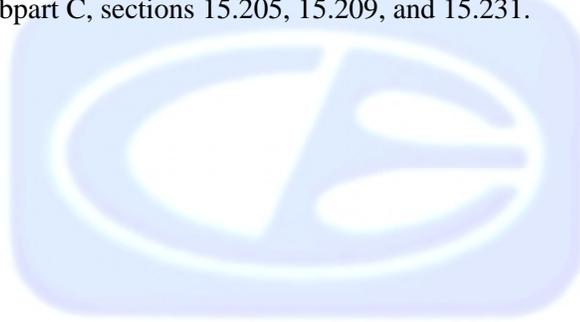
SUMMARY OF TEST RESULTS

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, 9 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.
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: Projack M1. 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

Mov-A-Load Corporation

Sandy Hutcherson	Office Manager
Larry D. Nelson	President

Compatible Electronics, Inc.

Kyle Fujimoto	Test Engineer
Benigno Chavez	Test Engineer
Michael Christensen	Lab Manager

2.4 Date Test Sample was Received

The test sample was received prior to its qualification testing on July 5, 2005.

2.5 Disposition of the Test Sample

The test sample has not been returned to Mov-a-Load Corporation as of July 19, 2005.

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: Projack M1 (EUT) was tested as a stand alone unit and tested in three orthogonal axis. The EUT was continuously transmitting.

The antenna is soldered onto the EUT's PCB.

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

The final radiated data was taken in the modes described 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 NUMBER	SERIAL NUMBER	FCC ID
TRANSMITTER (EUT)	MOV-A-LOAD CORPORATION	PROJACK MI	N/A	TGTPROJACKM1



5.2 EMI Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. DUE DATE
Radiate Emissions Data Capture Program	Compatible Electronics	2.0	N/A	N/A	N/A
Emissions Program	Compatible Electronics	2.3 (SR19)	N/A	N/A	N/A
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08784	June 10, 2005	June 16, 2006
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	3701A22279	June 10, 2005	June 16, 2006
Quasi-Peak Adapter	Hewlett Packard	85650A	2430A00424	June 11, 2005	June 11, 2006
Preamplifier	Com Power	PA-103	1582	February 3, 2005	Feb. 3, 2006
Biconical Antenna	Com Power	AB-900	15250	March 11, 2005	Mar. 11, 2006
Log Periodic Antenna	Com Power	AL-100	16202	February 17, 2005	Feb. 17, 2006
Computer	Hewlett Packard	D5251A 888	US74458128	N/A	N/A
Monitor	Hewlett Packard	D5258A	DK74889705	N/A	N/A
Loop Antenna	Com-Power	AL-130	17089	September 3, 2004	Sept. 3, 2005
Horn Antenna	Antenna Research	DRG-118/A	1053	January 16, 2004	Jan. 16, 2006
Microwave Preamplifier	Com-Power	PA-122	25195	February 25, 2005	Feb. 25, 2006
EMI Receiver	Rohde & Schwarz	ESIB40	100172	October 28, 2004	Oct. 28, 2005
Antenna Mast	Com-Power	AM-100	N/A	N/A	N/A
Turntable	Com-Power	TT-100	N/A	N/A	N/A
Antenna Mast	EMCO	2090	9609-1176	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 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 4.40 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: Projack M1 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.

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

Transmitter
Model: Projack M1
S/N: N/A

There were no additional models covered under this report.



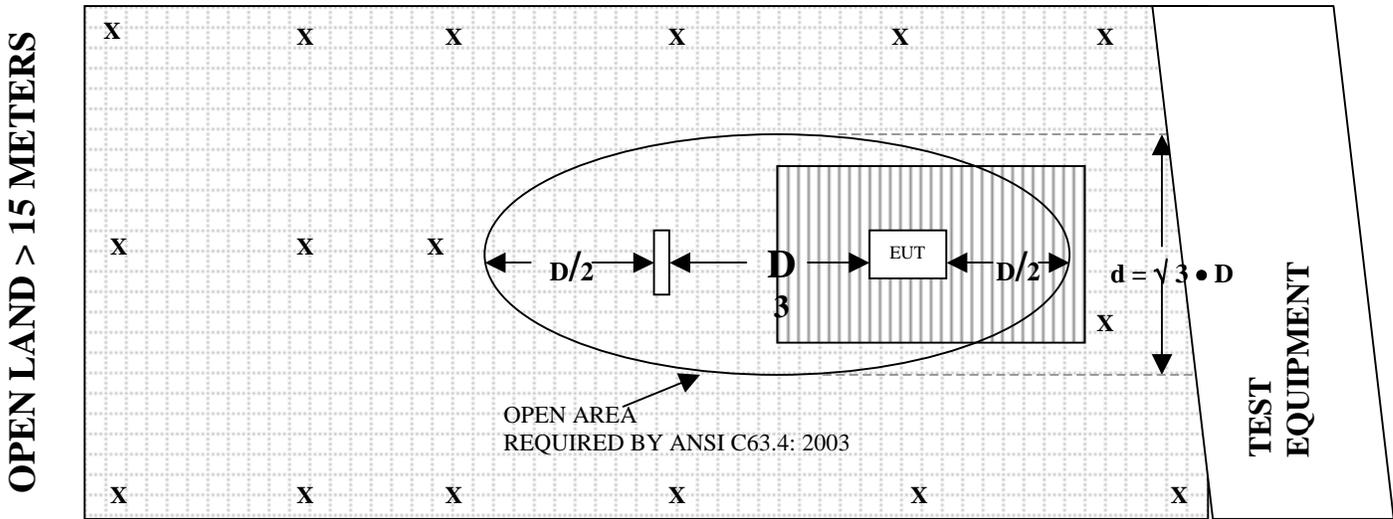
APPENDIX D

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 | | = GROUND SCREEN |
| D | = TEST DISTANCE (meters) | | = WOOD COVER |



COM-POWER AB-900

BICONICAL ANTENNA

S/N: 15250

CALIBRATION DATE: MARCH 11, 2005

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	10.90	120	13.10
35	10.90	125	12.40
40	10.90	140	11.90
45	10.30	150	11.80
50	11.40	160	13.30
60	10.40	175	15.40
70	7.40	180	14.60
80	6.20	200	15.70
90	8.20	250	16.50
100	10.10	300	19.20



COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16202

CALIBRATION DATE: FEBRURY 17, 2005

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	12.70	700	19.20
400	13.70	800	19.40
500	16.00	900	21.50
600	16.50	1000	23.50



COM-POWER PA-103**PREAMPLIFIER**

S/N: 1582

CALIBRATION DATE: FEBRUARY 3, 2005

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	33.2	300	33.0
40	33.0	350	32.8
50	33.1	400	32.8
60	33.0	450	32.8
70	33.2	500	32.5
80	33.2	550	32.5
90	33.1	600	32.4
100	33.2	650	32.4
125	33.1	700	32.3
150	33.0	750	32.2
175	33.0	800	32.2
200	33.0	850	32.4
225	33.0	900	31.8
250	33.0	950	32.3
275	32.9	1000	32.0



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

S/N: 25195

CALIBRATION DATE: FEBRUARY 25, 2005

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	31.45	6.0	31.35
1.1	31.34	6.5	31.10
1.2	31.29	7.0	30.54
1.3	31.28	7.5	29.72
1.4	31.25	8.0	29.22
1.5	31.21	8.5	28.75
1.6	31.14	9.0	28.67
1.7	31.07	9.5	29.14
1.8	31.12	10.0	30.12
1.9	31.04	11.0	29.30
2.0	31.20	12.0	29.86
2.5	31.56	13.0	30.57
3.0	32.17	14.0	29.90
3.5	32.56	15.0	30.14
4.0	32.51	16.0	31.13
4.5	32.52	17.0	29.97
5.0	32.33	18.0	28.77
5.5	31.60		



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

MOV-A-LOAD CORPORATION
TRANSMITTER

Model: PROJACK M1

FCC SUBPART B AND C – RADIATED EMISSIONS

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





REAR VIEW

MOV-A-LOAD CORPORATION
TRANSMITTER
Model: PROJACK M1
FCC SUBPART B AND C – RADIATED EMISSIONS

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





FRONT VIEW

MOV-A-LOAD CORPORATION
TRANSMITTER

Model: PROJACK M1

FCC SUBPART B AND C – RADIATED EMISSIONS

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



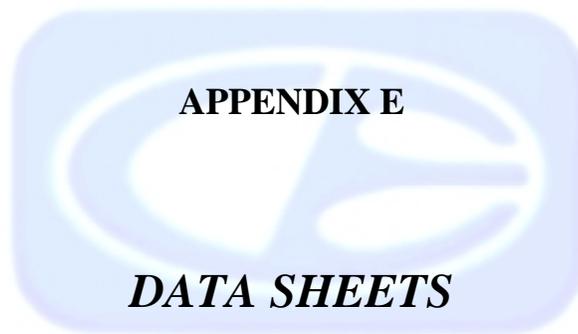


REAR VIEW

MOV-A-LOAD CORPORATION
TRANSMITTER
Model: PROJACK M1
FCC SUBPART B AND C – RADIATED EMISSIONS

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





RADIATED EMISSIONS

DATA SHEETS



FCC 15.231

Mov-A-Load Corporation

Transmitter

M/N: Projack M1

Date: 07/08/05

Labs: A and B

Tested By: Kyle Fujimoto

418 MHz Fundamental - X Axis

Duty Cycle: 42.42 %

With 330 Ohm Resistor

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	77.34	V	100.2	-22.86	Peak	1	270	
418	69.9	V	80.2	-10.30	Avg	1	270	
836	57.19	V	80.2	-23.01	Peak	1	0	
836	49.75	V	60.2	-10.45	Avg	1	0	
1254	39.1	V	80.2	-41.1	Peak	2.4	225	
1254	31.66	V	60.2	-28.54	Avg	2.4	225	
1672	55.58	V	74	-18.42	Peak	2.14	90	
1672	48.14	V	54	-5.86	Avg	2.14	90	
2090	47.73	V	80.2	-32.47	Peak	1.99	135	
2090	40.29	V	60.2	-19.91	Avg	1.99	135	
2508	39.65	V	80.2	-40.55	Peak	2.64	225	
2508	32.21	V	60.2	-27.99	Avg	2.64	225	
2926	51.94	V	80.2	-28.26	Peak	2.05	180	
2926	44.5	V	60.2	-15.7	Avg	2.05	180	
3344	45.37	V	80.2	-34.83	Peak	2.76	180	
3344	37.93	V	60.2	-22.27	Avg	2.76	180	
3762	50.08	V	74	-23.92	Peak	2.5	225	
3762	42.64	V	54	-11.36	Avg	2.5	225	
4180	52.37	V	74	-21.63	Peak	2.25	225	
4180	44.93	V	54	-9.07	Avg	2.25	225	

FCC 15.231

Mov-A-Load Corporation

Transmitter

M/N: Projack M1

Date: 07/08/05

Labs: A and B

Tested By: Kyle Fujimoto

418 MHz Fundamental - X Axis

Duty Cycle: 42.42 %

With 330 Ohm Resistor

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	86.54	H	100.2	-13.66	Peak	1	0	
418	79.1	H	80.2	-1.10	Avg	1	0	
836	62.39	H	80.2	-17.81	Peak	1	270	
836	54.95	H	60.2	-5.25	Avg	1	270	
1254	41.17	H	80.2	-39.03	Peak	3.74	225	
1254	33.73	H	60.2	-26.47	Avg	3.74	225	
1672	55.21	H	74	-18.79	Peak	1	225	
1672	47.77	H	54	-6.23	Avg	1	225	
2090	47.34	H	80.2	-32.86	Peak	1.77	270	
2090	39.9	H	60.2	-20.3	Avg	1.77	270	
2508	41.66	H	80.2	-38.54	Peak	2.41	225	
2508	34.22	H	60.2	-25.98	Avg	2.41	225	
2926	53.35	H	80.2	-26.85	Peak	2.45	225	
2926	45.91	H	60.2	-14.29	Avg	2.45	225	
3344	42.12	H	80.2	-38.08	Peak	1.55	180	
3344	34.68	H	60.2	-25.52	Avg	1.55	180	
3762	48.22	H	74	-25.78	Peak	2	90	
3762	40.78	H	54	-13.22	Avg	2	90	
4180	49.01	H	74	-24.99	Peak	2.26	225	
4180	41.57	H	54	-12.43	Avg	2.26	225	

FCC 15.231

Mov-A-Load Corporation

Transmitter

M/N: Projack M1

Date: 07/08/05

Labs: A and B

Tested By: Kyle Fujimoto

418 MHz Fundamental - Y Axis

Duty Cycle: 42.42 %

With 330 Ohm Resistor

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	81.64	V	100.2	-18.56	Peak	1	0	
418	74.2	V	80.2	-6.00	Avg	1	0	
836	62.49	V	80.2	-17.71	Peak	1	0	
836	55.05	V	60.2	-5.15	Avg	1	0	
1254	44.57	V	80.2	-35.63	Peak	2.33	90	
1254	37.13	V	60.2	-23.07	Avg	2.33	90	
1672	53.61	V	74	-20.39	Peak	2.2	225	
1672	46.17	V	54	-7.83	Avg	2.2	225	
2090	45.73	V	80.2	-34.47	Peak	3.37	315	
2090	38.29	V	60.2	-21.91	Avg	3.37	315	
2508	39.84	V	80.2	-40.36	Peak	2.42	225	
2508	32.4	V	60.2	-27.8	Avg	2.42	225	
2926	53.43	V	80.2	-26.77	Peak	2.25	180	
2926	45.99	V	60.2	-14.21	Avg	2.25	180	
3344	48.62	V	80.2	-31.58	Peak	2.45	225	
3344	41.18	V	60.2	-19.02	Avg	2.45	225	
3762	51.12	V	74	-22.88	Peak	2	225	
3762	43.68	V	54	-10.32	Avg	2	225	
4180	51.65	V	74	-22.35	Peak	2.15	225	
4180	44.21	V	54	-9.79	Avg	2.15	225	

FCC 15.231

Mov-A-Load Corporation

Transmitter

M/N: Projack M1

Date: 07/08/05

Labs: A and B

Tested By: Kyle Fujimoto

418 MHz Fundamental - Y Axis

Duty Cycle: 42.42 %

With 330 Ohm Resistor

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	79.54	H	100.2	-20.66	Peak	1	270	
418	72.1	H	80.2	-8.10	Avg	1	270	
836	54.39	H	80.2	-25.81	Peak	1	0	
836	46.95	H	60.2	-13.25	Avg	1	0	
1254	37.54	H	80.2	-42.66	Peak	1.67	225	
1254	30.1	H	60.2	-30.1	Avg	1.67	225	
1672	55.06	H	74	-18.94	Peak	2.49	225	
1672	47.62	H	54	-6.38	Avg	2.49	225	
2090	48.85	H	80.2	-31.35	Peak	2.42	225	
2090	41.41	H	60.2	-18.79	Avg	2.42	225	
2508	43.36	H	80.2	-36.84	Peak	2.37	225	
2508	35.92	H	60.2	-24.28	Avg	2.37	225	
2926	52.65	H	80.2	-27.55	Peak	2.48	90	
2926	45.21	H	60.2	-14.99	Avg	2.48	90	
3344	47.2	H	80.2	-33	Peak	2.36	135	
3344	39.76	H	60.2	-20.44	Avg	2.36	135	
3762	47.1	H	74	-26.9	Peak	1.92	135	
3762	39.66	H	54	-14.34	Avg	1.92	135	
4180	50.58	H	74	-23.42	Peak	2.2	225	
4180	43.14	H	54	-10.86	Avg	2.2	225	

FCC 15.231

Mov-A-Load Corporation

Transmitter

M/N: Projack M1

Date: 07/08/05

Labs: A and B

Tested By: Kyle Fujimoto

418 MHz Fundamental - Z Axis

Duty Cycle: 42.42 %

With 330 Ohm Resistor

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	86.54	V	100.2	-13.66	Peak	1	0	
418	79.1	V	80.2	-1.10	Avg	1	0	
836	57.49	V	80.2	-22.71	Peak	1	180	
836	50.05	V	60.2	-10.15	Avg	1	180	
1254	39.72	V	80.2	-40.48	Peak	2.64	225	
1254	32.28	V	60.2	-27.92	Avg	2.64	225	
1672	51.97	V	74	-22.03	Peak	3.46	225	
1672	44.53	V	54	-9.47	Avg	3.46	225	
2090	45.68	V	80.2	-34.52	Peak	3.34	225	
2090	38.24	V	60.2	-21.96	Avg	3.34	225	
2508	40.08	V	80.2	-40.12	Peak	2.45	225	
2508	32.64	V	60.2	-27.56	Avg	2.45	225	
2926	52.87	V	80.2	-27.33	Peak	3.15	225	
2926	45.43	V	60.2	-14.77	Avg	3.15	225	
3344	44.76	V	80.2	-35.44	Peak	3.12	180	
3344	37.32	V	60.2	-22.88	Avg	3.12	180	
3762	47.15	V	74	-26.85	Peak	2.21	225	
3762	39.71	V	54	-14.29	Avg	2.21	225	
4180	50.72	V	74	-23.28	Peak	2.21	135	
4180	43.28	V	54	-10.72	Avg	2.21	135	

FCC 15.231

Mov-A-Load Corporation

Transmitter

M/N: Projack M1

Date: 07/08/05

Labs: A and B

Tested By: Kyle Fujimoto

418 MHz Fundamental - Z Axis

Duty Cycle: 42.42 %

With 330 Ohm Resistor

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
418	77.34	H	100.2	-22.86	Peak	1	270	
418	69.9	H	80.2	-10.30	Avg	1	270	
836	57.19	H	80.2	-23.01	Peak	1	180	
836	49.75	H	60.2	-10.45	Avg	1	180	
1254	40.47	H	80.2	-39.73	Peak	3.74	225	
1254	33.03	H	60.2	-27.17	Avg	3.74	225	
1672	50.87	H	74	-23.13	Peak	2.84	225	
1672	43.43	H	54	-10.57	Avg	2.84	225	
2090	45.77	H	80.2	-34.43	Peak	2.32	135	
2090	38.33	H	60.2	-21.87	Avg	2.32	135	
2508	42.54	H	80.2	-37.66	Peak	2.56	135	
2508	35.1	H	60.2	-25.1	Avg	2.56	135	
2926	49.65	H	80.2	-30.55	Peak	2.14	180	
2926	42.21	H	60.2	-17.99	Avg	2.14	180	
3344	47.65	H	80.2	-32.55	Peak	1.98	225	
3344	40.21	H	60.2	-19.99	Avg	1.98	225	
3762	44.36	H	74	-29.64	Peak	1.65	45	
3762	36.92	H	54	-17.08	Avg	1.65	45	
4180	50.87	H	74	-23.13	Peak	2.66	135	
4180	43.43	H	54	-10.57	Avg	2.66	135	

Test Location : Compatible Electronics
 Customer : Move A Load Corporation
 Manufacturer : Move A Load Corporation
 Eut name : Transmitter
 Model : ProJack MI
 Serial # :
 Specification : FCC B
 Distance correction factor ($20 * \log(\text{test}/\text{spec})$) : 0.00
 Test Mode : Test Range: 10 kHz to 1 GHz
 Vertical and Horizontal Polarizations
 Qualification Scan
 Tested By: Benigno Chavez

Page : 1/1
 Date : 7/05/2005
 Time : 19:59:04
 Lab : A
 Test Distance : 3.0 Meters

Pol	Freq	Rdng	Cable	Ant	Amp	Cor' d	Li mi t	Del ta
	MHz	dBuV	loss	factor	gain	rdg = R	= L	R- L
			dB	dB	dB	dBuV	dBuV/m	dB

No Emissions Found from 10 kHz to 1 GHz from the EUT

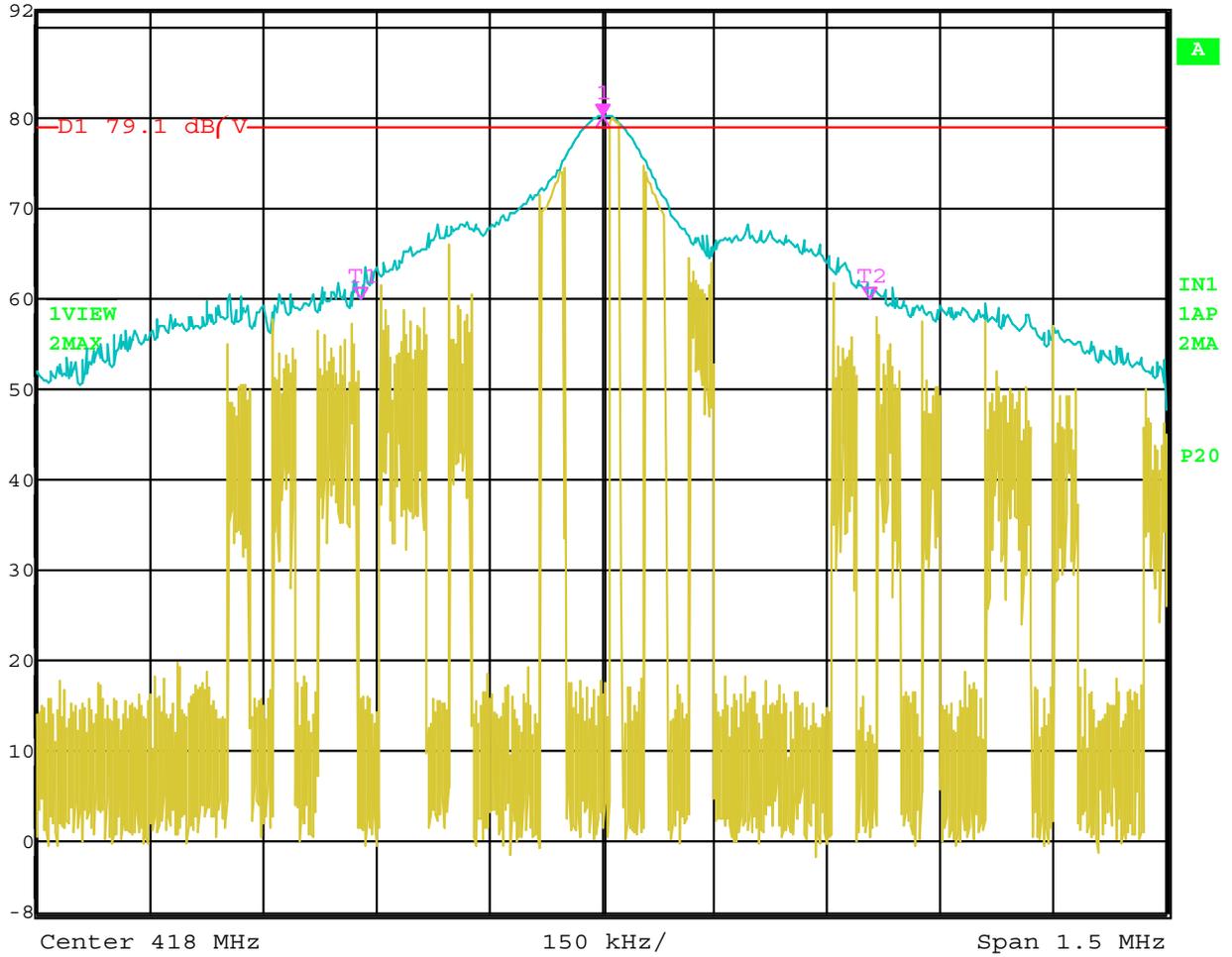
-20 dB BANDWIDTH

DATA SHEET





Ref Lvl	92 dB/V	Marker 1 [T2 ndB]	ndB	20.00 dB	RBW	100 kHz	RF Att	20 dB
		BW	676.35270541 kHz		VBW	100 kHz	Unit	dB/V
					SWT	5.5 ms		



Date: 8.JUL.2005 11:09:39

20 dB Bandwidth of the Fundamental