ELECTROMAGNETIC COMPATIBILITY TEST REPORT

TEST REPORT NUMBER:	**NC72106774.1**
EQUIPMENT UNDER TEST (EUT) NAME:	Military AC to DC Family
EUT DESCRIPTION:	Lind AC-DC Converter
MODEL NO(S):	ACMIL1950-ZZZZ
MODEL NO(S) TESTED:	ACMIL1950-4337
SERIAL NO(S) TESTED:	None
TEST DATE(S):	23-26 June, 01-02 July, and 19 August 2015
PREPARED FOR:	Lind Electronics 6414 Cambridge Street Minneapolis MN 55426 USA
CUSTOMER REQUESTER:	Jay Aigner 952 927 6303
TEST LOCATION / PREPARED BY:	TÜV SÜD America Inc New Brighton Laboratory 1775 Old Highway 8 NW, Suite 104 New Brighton MN 55112-1891 USA 651 631 2487

The information presented in this report outlines the testing performed, and is, to the best of our knowledge, true and correct in all respects.

Tested By:	Written By:	Reviewed By:
Michael J Westman	Jolene S Polosky	David T Schaefer
Senior EMC Technician	Senior EMC Technical Writer	EMC Chief Technical Advisor

REVISION RECORD

REVISION	TOTAL NUMBER OF PAGES	DATE	DESCRIPTION
	102	01 September 2015	Initial Release

DIRECTORY

1.0 STANDARDS / DOCUMENTS:

MIL-STD 461F: Department of Defense Interface Standard, Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment, 10 December 2007.

2.0 TEST SUMMARY

Electromagnetic compatibility testing was performed on the ACMIL1950-ZZZZ Military AC to DC Converter (Model ACMIL-1950-4337 tested) at the New Brighton Laboratory of TÜV SÜD America Inc located in New Brighton, Minnesota. The test requirements were specified in MIL-STD 461F.

3.0 TEST RESULTS

Testing was performed in accordance with the above referenced documents. Testing was conducted in TÜV SÜD America's Test Area #7 (a 20' x 20' x 12' semi-anechoic absorber lined shielded room). The system was configured in a typical user arrangement in accordance with the manufacturer's instructions. Refer to the data sheets in Appendix D for details of the test results.

Test Method	Standard	Description	Frequency Range	PASS /FAIL
CS101(1)	MIL-STD 461F	Conducted Susceptibility, Power Leads	30 Hz - 150 kHz Curve 1	PASS
CS114(1)	MIL-STD 461F	Conducted Susceptibility, Bulk Cable Injection	10 kHz - 200 MHz Curve 3	PASS
CS116(1)	MIL-STD 461F	Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads	10 kHz - 100 MHz	PASS NOTE 2
RE102(1)	MIL-STD 461F	Radiated Emissions, Electric Field	10 kHz - 18 GHz Fixed Wing Internal limit	PASS NOTE 2
RS103(1)	MIL-STD 461F	Radiated Susceptibility, Electric Field	2 MHz - 40 GHz Aircraft Internal Air Force limit	PASS

(1) *Test Methods covered under NVLAP Lab Code #100271-0 Scope of Accreditation*

NOTE 1: MIL-STD-461F CS116 testing to the Fixed Wing Internal limit was performed with an extended range down to 10 kHz in vertical polarity.

NOTE 2: MIL-STD-461F RE102 testing was performed with an internal shield covering the transformer area.

4.0 MODIFICATIONS REQUIRED TO PASS:

There were no modifications made to the EUT at the time of test.

5.0 TEST SPECIFICATION DEVIATIONS: ADDITIONS TO OR EXCLUSIONS FROM:

Testing was performed without deviation from MIL-STD 461F except as indicated in Section 3.0, Note 1.

6.0 STATEMENT OF MEASUREMENT UNCERTAINTY

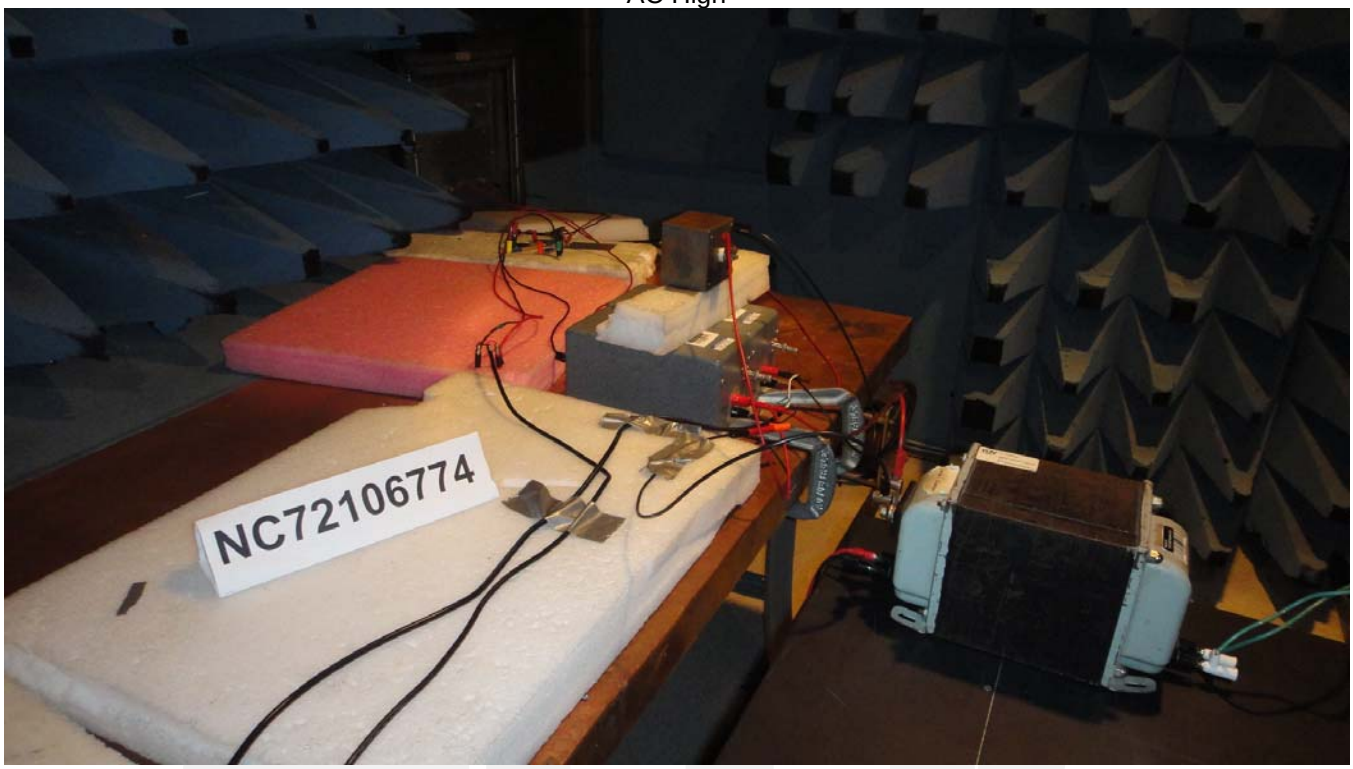
The data and results referenced in this document are accurate. The reader is cautioned that there is some measurement variability due to the tolerances of the test equipment that can contribute to a nominal product measurement uncertainty. Furthermore, component differences and manufacturing process variability of production units similar to that tested may result in additional product uncertainty. If necessary, refer to the test lab for the actual measurement uncertainty for specific tests.

APPENDIX A

TEST SETUP PHOTOS

MIL-STD 461F CS101: Conducted Susceptibility - Power Leads

AC High



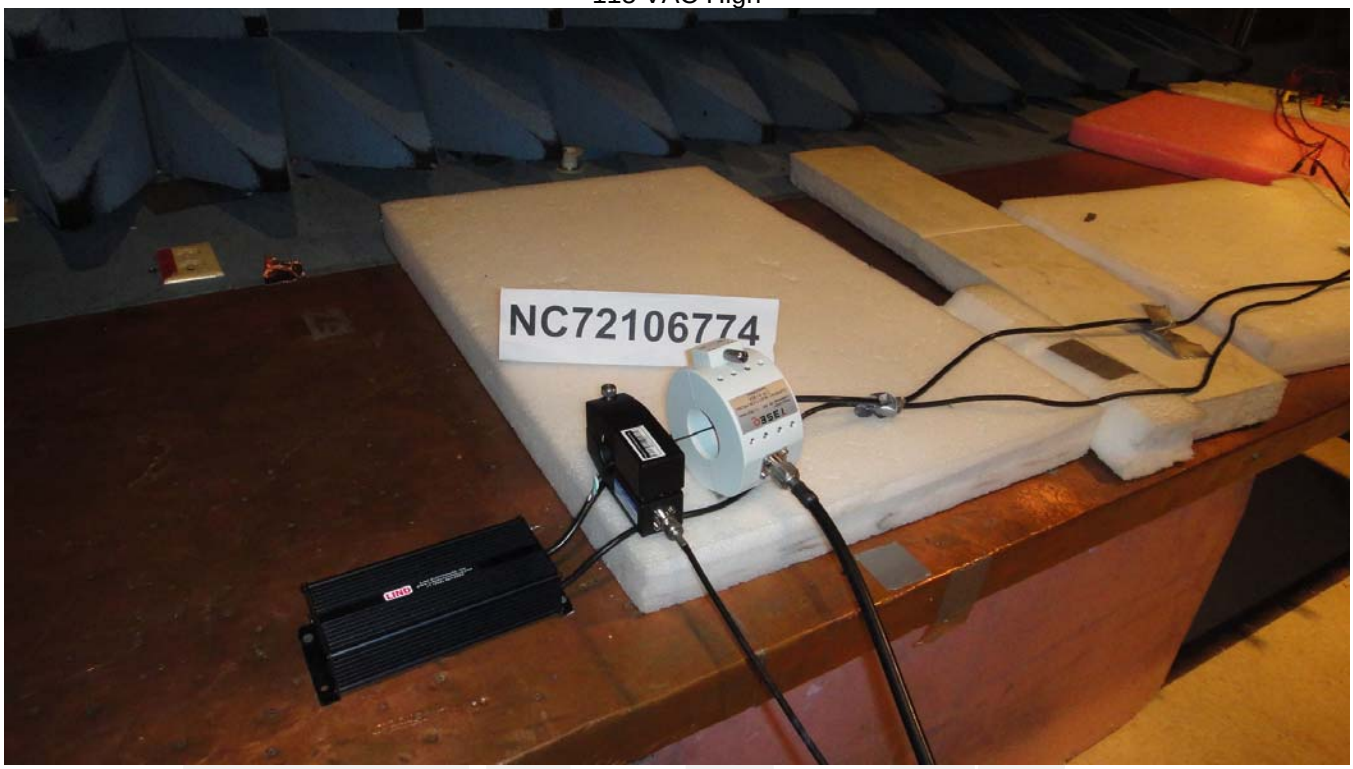
AC Return

DC Output Bundle

AC Input Bundle

MIL-STD 461F CS114: Conducted Susceptibility - Bulk Cable Injection

115 VAC High



18 VDC High

DC Output Bundle

18 VDC High

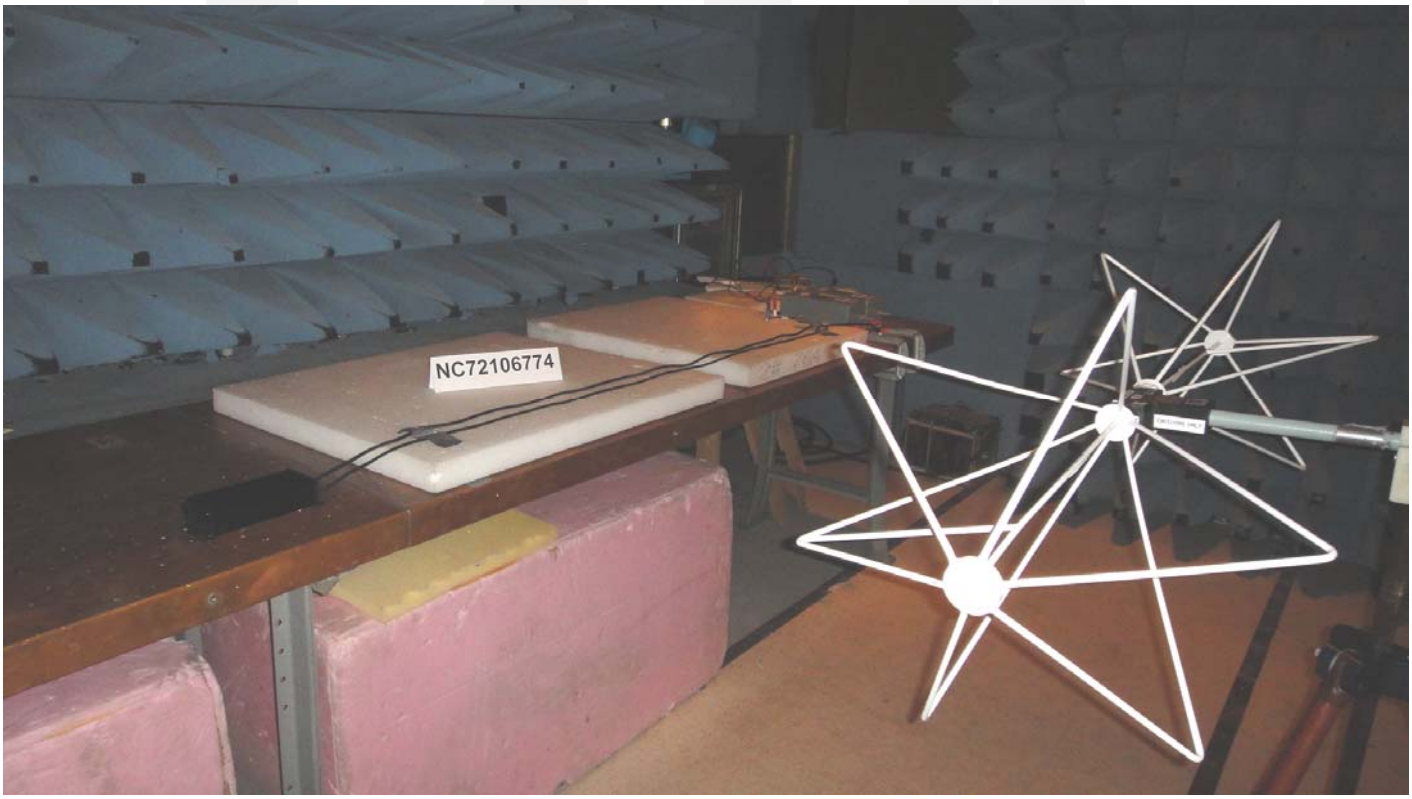
AC Input Bundle

115 VAC High

MIL-STD 461F RE102: Radiated Emissions - Electric Field

10 kHz to 30 MHz

30 MHz to 200 MHz



MIL-STD 461F RE102: Radiated Emissions - Electric Field

200 MHz to 1 GHz

1 GHz to 18 GHz

MIL-STD 461F RS103: Radiated Susceptibility - Electric Field

2 MHz to 30 MHz

30 MHz to 200 MHz

MIL-STD 461F RS103: Radiated Susceptibility - Electric Field

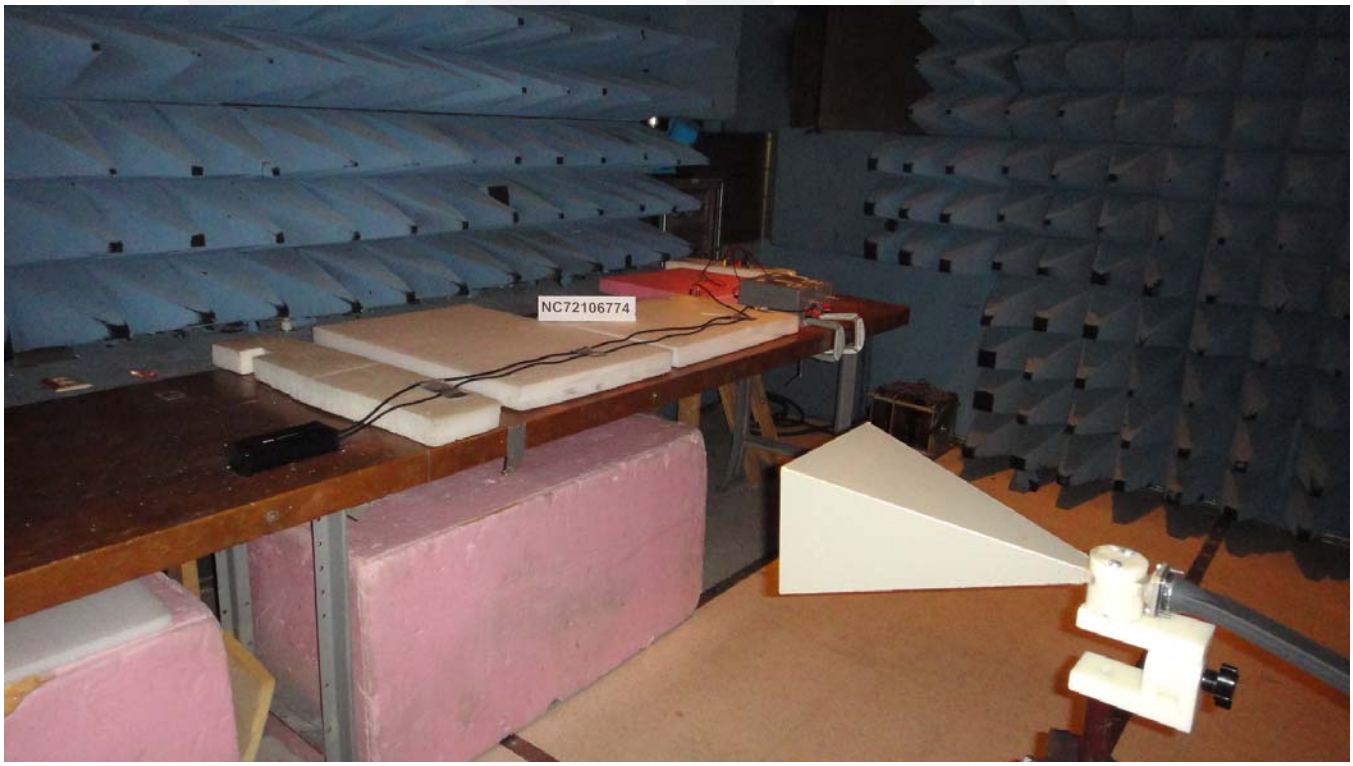
200 MHz to 1 GHz

1 GHz to 4 GHz

MIL-STD 461F RS103: Radiated Susceptibility - Electric Field

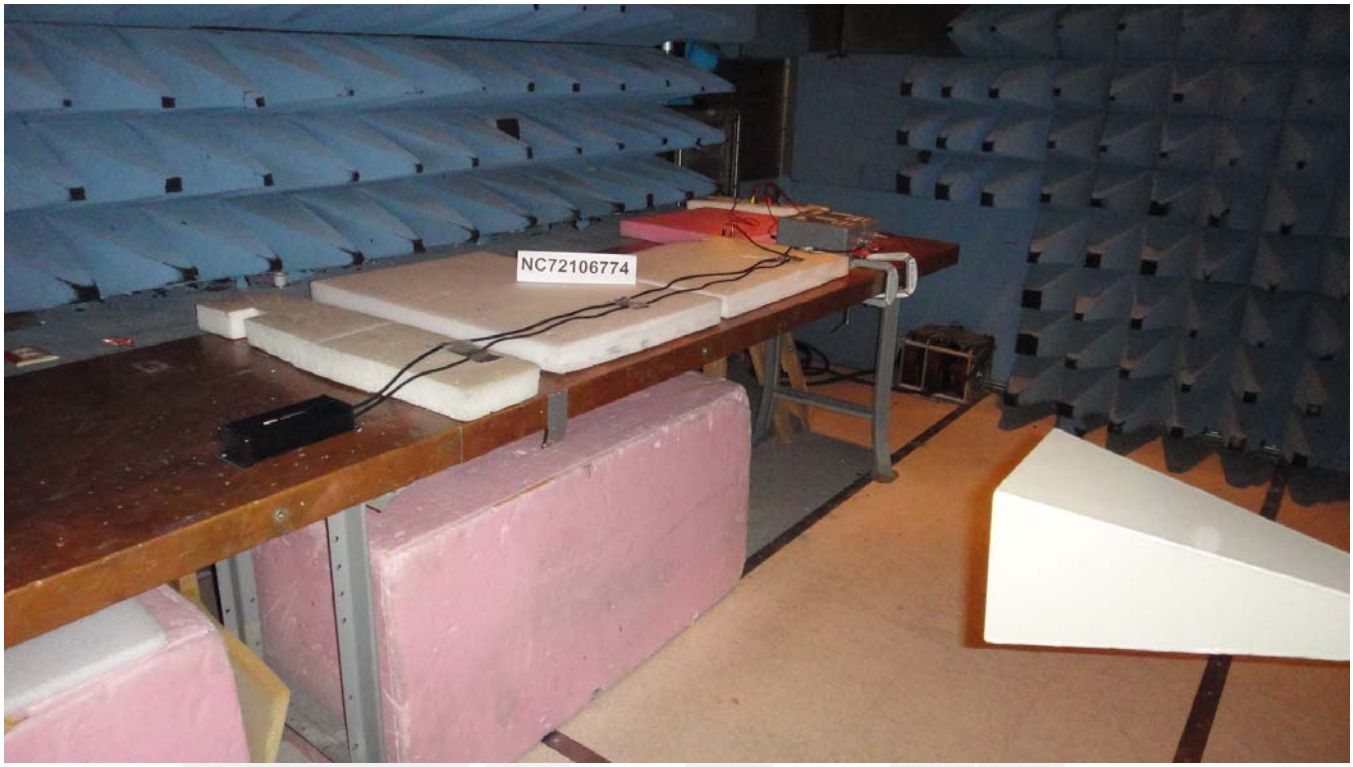
4 GHz to 8 GHz

8 GHz to 12.4 GHz



MIL-STD 461F RS103: Radiated Susceptibility - Electric Field

12.4 GHz to 18 GHz



18 GHz to 26.5 GHz

MIL-STD 461F RS103: Radiated Susceptibility - Electric Field

26.5 GHz to 40 GHz

APPENDIX B

TEST EQUIPMENT LIST

TEST EQUIPMENT

Use of the calibrated equipment listed in this report ensures traceability to national and international standards.

Test#	Test Description / Operator / Performed By
1	Mil Std 461F, RS103 / mjw (23-26 June 2015)
2	Mil Std 461F, CS101 / mjw (26 June 2015)
3	Mil Std 461F, CS114 / mjw (26 June and 01 July 2015)
4	Mil Std 461F, CS116 / mjw (01-02 July 2015)
5	Mil Std 461F, RE102 / mjw (19 August 2015)

Test#	Mfr	Model	Serial	Description	Cal Code/ Cal Due		Asset ID
1	AGT	E4440A	MY42510427	Spectrum Analyzer PSA	G	28 Oct 15	NBLE03366
1	AGT	E4446A	US44300488	Spectrum Analyzer 44GHz	G	29 Jan 16	NBLE10440
1	APP	267K	0500031	AMP TWT 18-26GHz 40W	Y	N/A	NBLE10449
1	APP	267Ka	0500032	Amp TWT 26.5 - 40GHz 40W	Y	N/A	NBLE10453
1	AR	100W1000M7	15868	Amp 100W 25-1000 MHz	Y	N/A	NBLE02945
1	AR	2500A225	0341989	2500W Amplifier 10kHz-225MH	Y	N/A	NBLE11340
1	AR	250A250A	311619	Amplifier, 250W	Y	N/A	NBLE10618
1	AR	AT4003	27189	Antenna Horn 4-8 GHz	Y	N/A	NBLE10371
1	AR	AT4510	310428	Antenna Horn 1-4.2 GHz	Y	N/A	NBLE03493
1	AR	DC2500	14846	Coupler 50dB 2500W	B	27 Mar 16	NBLE11152
1	AR	FP4080	96628	RS Electric Field Probe	G	12 Jan 16	NBLE02934
1	AR	FP7003	311415	Electric Field Probe Kit	G	01 Dec 15	NBLE02104
1	BR	8890	1208	2500 W Coax Restr/50 ohms	Y	N/A	NBLE02866
1	EC	3106	2002	Ridge Guide Ant .2-2 GHz	G	08 Apr 16	NBLE02072
1	EC	3109	9710-3123	High Field Biconical Ant.	Y	N/A	NBLE02929
1	EC	7122	9203-1112	Field Strength Monitor	G	26 Feb 16	WRLE02084
1	HP	33120A	US36005012	Funct/Arb WF Gen 15MHz	G	27 Jan 16	NBLE02827
1	HP	3478A	2136A02952	Digital Multimeter	G	26 Jan 16	NBLE02132
1	HP	83640B/001/00	3420A01080	Sweep Generator 40GHz	G	27 Oct 15	NBLE10468
1	IFI	T42-200	P1308-0911	Amplifier 200W 2-4GHz	Y	N/A	NBLE11190
1	KE	IJR630-200	92937-2379	TWT Power Amp 8-18GHz	Y	N/A	NBLE02519
1	LG	A610/LS	6683	Amp 1-2..5GHz CW TWT	Y	N/A	NBLE07552
1	MAC	C230530	104001	Cplr 30dB 4-8GHz	B	15 Sep 15	NBLE03405
1	MAC	CA3333 30B	694002	Dir. Cplr 600W, 1-4 GHz	B	22 Jun 16	NBLE03260
1	MTE	12-12	21553 MB	12-18 GHz Horn Antenna	Y	N/A	NBLE10367
1	MTE	12-8.2	21552 MB	8-12 GHz Horn Antenna	Y	N/A	NBLE10366
1	PEN	PT-3104	6304-017	Amp 4-8 GHz, 100 W TWT	Y	N/A	NBLE10364
1	RS	SMY02	DE22168	Sig Generator 2GHz	G	18 May 16	NBLE10917
1	SA	12-18	80	Horn Antenna 18-26 GHz	Y	N/A	NBLE02847
1	SA	12A-26	492	Horn Antenna 26-40 GHz	Y	N/A	NBLE02848
1	SO	8028-50-TS-24	982847	LISN, 50 uH, 50 Ohm, 24 Am	B	20 Jan 16	NBLE03006
1	SO	8028-50-TS-24	982850	LISN, 50 uH, 50 Ohm, 24 Am	B	20 Jan 16	NBLE03009
1	TUV	A	1	Parallel Plate Antenna	Y		NBLE02007
1	WE	C3910-10	29512	Coupler 40dB 200W	B	06 Oct 15	NBLE02065
2	AGT	34401A	MY41049414	Digital Multimeter	G	26 Jan 16	WRLE03805
2	HP	33120A	US36005012	Funct/Arb WF Gen 15MHz	G	27 Jan 16	NBLE02827
2	HP	3478A	2136A02952	Digital Multimeter	G	26 Jan 16	NBLE02132
2	SO	6220-2	1	Audio Isolation Xfmr	Y	N/A	NBLE03043
2	SO	6512-106R	2155	10.0 uF Capacitor	B	14 Oct 15	NBLE02155
2	SO	7144-1.0	3	Precision Resistor Assembly	B	16 Feb 16	NBLE10555
2	SO	7144-1.0	4	Precision Resistor Assembly	B	16 Feb 16	NBLE10556
2	SO	8028-50-TS-24	982847	LISN, 50 uH, 50 Ohm, 24 Am	B	20 Jan 16	NBLE03006
2	SO	8028-50-TS-24	982850	LISN, 50 uH, 50 Ohm, 24 Am	B	20 Jan 16	NBLE03009

Test#	Mfr	Model	Serial	Description	Cal Code/ Cal Due	Asset ID
3	AGT	E4419B	GB43316903	Power Meter E4419B	G 27 Jan 16	NBLE11038
3	AGT	E4446A	US44300488	Spectrum Analyzer 44GHz	G 29 Jan 16	NBLE10440
3	AGT	E9304A	MY49000103	Power Sensor	G 30 Jan 16	NBLE11039
3	AR	250A250A	311619	Amplifier, 250W	Y	NBLE10618
3	BR	8201	4451	Coax Resistor	Y	NBLE02055
3	EA	94111-1	931	Cur Probe 1MHz-1GHz	B 18 Mar 16	NBLE02563
3	EI	AX-500-20	928700	20 dB Attenuator	B 11 Jul 15	NBLE02085
3	HP	33120A	US36005012	Funct/Arb WF Gen 15MHz	G 27 Jan 16	NBLE02827
3	HP	3478A	2136A02952	Digital Multimeter	G 26 Jan 16	NBLE02132
3	RS	SMY02	DE22168	Sig Generator 2GHz	G 18 May 16	NBLE10917
3	SO	6741-1	6741141201	RF CURRENT PROBE	B 31 Dec 15	NBLE11292
3	SO	8028-50-TS-24	982847	LISN, 50 uH, 50 Ohm, 24 Am	B 20 Jan 16	NBLE03006
3	SO	8028-50-TS-24	982850	LISN, 50 uH, 50 Ohm, 24 Am	B 20 Jan 16	NBLE03009
3	TES	CIP 9136A	39276	Current Injection Probe	B 09 Dec 15	NBLE11288
3	TES	PCJ 9201E	39748	Calibration Jig for Probe	B 09 Dec 15	NBLE11289
3	WE	C6930-10	97531	Dir Cpler 30dB 100W .01-400	B 02 Apr 16	NBLE10909
4	AFI	18N20W-20dB	11249	Attenuator 20dB 20W 18GHz	B 30 Jul 15	NBLE11249
4	HP	3478A	2136A02952	Digital Multimeter	G 26 Jan 16	NBLE02132
4	HP	54615B	US35421314	500 MHz 2-CH Oscilloscope	G 18 May 16	NBLE02755
4	INM	18N20W-10dB	11085	Attenuator 10dB 20W	B 11 Jul 15	NBLE11085
4	PH	662A-30	895	30 dB Attenuator	B 05 Nov 15	NBLE02268
4	SO	6741-1	6741141201	RF CURRENT PROBE	B 31 Dec 15	NBLE11292
4	SO	8028-50-TS-24	982847	LISN, 50 uH, 50 Ohm, 24 Am	B 20 Jan 16	NBLE03006
4	SO	8028-50-TS-24	982850	LISN, 50 uH, 50 Ohm, 24 Am	B 20 Jan 16	NBLE03009
4	SO	9354-1	940526	Transient Gen - Lightning	Y N/A	NBLE02717
4	SO	9354-1	994221	transient Pulse Generator	Y N/A	NBLE06411
4	TES	CIP 9136A	39276	Current Injection Probe	B 09 Dec 15	NBLE11288
5	AHS	200/550-1B	230	Ant .01-60 MHz Active Rod	B 03 Oct 15	NBLE02634
5	AHS	SAS-571	812	Antenna DRG Horn	G 17 Jul 16	NBLE10473
5	EC	3106	2002	Ridge Guide Ant .2-2 GHz	G 08 Apr 16	NBLE02072
5	EM	6912	635	Antenna, Bicon 20 -300MHz	G 14 Oct 15	NBLE03346
5	EM	LPA-25	1042	Log Per. Ant 0.2-1 GHz	G 09 Apr 16	NBLE02091
5	HP	83640B/001/00	3420A01080	Sweep Generator 40GHz	G 27 Oct 15	NBLE10468
5	HP	8447D	2443A04180	Pre Amp 0.1 to 1300MHz	B 05 Nov 15	NBLE10985
5	JCA	JCA018-504	101A	Preamp .4 to 18GHz	G 29 Oct 15	NBLE02125
5	MTE	12-12	21553 MB	12-18 GHz Horn Antenna	Y N/A	NBLE10367
5	RS	SMY02	DE22168	Sig Generator 2GHz	G 18 May 16	NBLE10917
5	SO	8028-50-TS-24	982847	LISN, 50 uH, 50 Ohm, 24 Am	B 20 Jan 16	NBLE03006
5	SO	8028-50-TS-24	982850	LISN, 50 uH, 50 Ohm, 24 Am	B 20 Jan 16	NBLE03009
5	TUV	10pF	1	Capacitor 10pF in line	B 16 Feb 16	NBLE10304

CALIBRATION CODES

Cal Code B = Calibration verification performed internally.
Cal Code G = Calibration performed by an accredited outside source.
Cal Code Y = a. Calibration not required when used with other calibrated equipment; or
b. Passive device that does not require calibration.

MANUFACTURER CODES

AFI	Aeroflex Inmet
AGT	Agilent Technologies
AHS	AH Systems
APP	Applied Systems Engineering
AR	Amplifier Research
BR	Bird
EA	Eaton
EC	EMCO/EMC Test
EI	Electro Impulse
EM	Electro-Metrics
HP	Hewlett-Packard
IFI	Instruments for Industry
INM	Inmet
JCA	JCA Technology
KE	Keltek
LG	Logimetrics
MAC	MAC Technology
MTE	MI Technologies
PEN	Pendel
PH	Philco
RS	Rohde & Schwarz
SA	Scientific Atlanta
SO	Solar Electronics
TES	Teseq
TÜV	TÜV SÜD America
WE	Werlatone

APPENDIX C

TEST DATA SHEETS

CONDUCTED SUSCEPTIBILITY

Test Report #: NC72106774 Test Area: 7

EUT Model #: ACMIL1950-4337 Date: 26 June, 2015

EUT Serial #: N/A EUT Power: 115 VAC, 400 Hz Temperature: 24 °C

Test Method: Mil Std 461F, CS101 Air Pressure: 98.5 kPa

Customer: Lind Electronics Design Relative Humidity: 46 %

EUT Description: AC Adapter Page: 1 of 1

Notes:

Test Frequency kHz	Test Level (dBuV)	Modulation Type (See Key)	Injection Method	Lead Description (Type)	Step Size (%)	Dwell Time (Sec)	Complies Yes	Complies No	Remarks
.03	136	1	XFMR	AC High	5	3	✓		
↓	↓	↓	↓	↓	↓	↓	↓		
5	136	↓	↓	↓	↓	↓	↓		
↓	↓	↓	↓	↓	↓	↓	↓		
150	106.5	↓	↓	↓	↓	↓	↓		
.03	136	1	XFMR	AC Return	5	3	✓		
↓	↓	↓	↓	↓	↓	↓	↓		
5	136	↓	↓	↓	↓	↓	↓		
↓	↓	↓	↓	↓	↓	↓	↓		
150	106.5	↓	↓	↓	↓	↓	↓		

Tested by: Michael Westman (Printed) Signature

Reviewed by: David T Schaefer (Printed) Signature

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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CONDUCTED SUSCEPTIBILITY

Test Report #: NC72106774 Test Area: 7

EUT Model #: ACMIL1950-4337 Date: 26 June, 2015

EUT Serial #: N/A EUT Power: 115 VAC, 400 Hz Temperature: 24 °C

Test Method: Mil Std 461F, CS114 Air Pressure: 98.5 kPa

Customer: Lind Electronics Design Relative Humidity: 46 %

EUT Description: AC Adapter Page: 1 of 1

Notes:

Test Frequency (MHz)	Test Level curve	Modulation Type (See Key)	Injection Method	Lead Description (Type)	Step Size (%)	Dwell Time (Sec)	Complies Yes	Complies No	Remarks
.01	3	2	BCI	DC Output Bundle	5	3	✓		
↓	↓	↓	↓	↓	↓	↓	↓		
1	↓	↓	↓	↓	1	↓	↓		
↓	↓	↓	↓	↓	↓	↓	↓		
30	↓	↓	↓	↓	.5	↓	↓		
↓	↓	↓	↓	↓	↓	↓	↓		
200	↓	↓	↓	↓	↓	↓	↓		

Tested by: Michael Westman (Printed) (Signature)

Reviewed by: David T Schaefer (Printed) (Signature)

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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CONDUCTED SUSCEPTIBILITY

Test Report #: NC72106774 Test Area: 7

EUT Model #: ACMIL1950-4337 Date: 1 July, 2015

EUT Serial #: N/A EUT Power: 115 VAC, 400 Hz Temperature: 24 °C

Test Method: Mil Std 461F, CS114 Air Pressure: 98.2 kPa

Customer: Lind Electronics Design Relative Humidity: 44 %

EUT Description: AC Adapter Page: 1 of 1

Notes:

Test Frequency (MHz)	Test Level curve	Modulation Type (See Key)	Injection Method	Lead Description (Type)	Step Size (%)	Dwell Time (Sec)	Complies Yes	Complies No	Remarks
.01	3	2	BCI	AC Input Bundle	5	3	✓		
↓	↓	↓	↓	↓	↓	↓	↓		
1	↓	↓	↓	↓	1	↓	↓		
↓	↓	↓	↓	↓	↓	↓	↓		
30	↓	↓	↓	↓	.5	↓	↓		
↓	↓	↓	↓	↓	↓	↓	↓		
200	↓	↓	↓	↓	↓	↓	↓		
.01	3	2	BCI	115 VAC High	5	3	✓		
↓	↓	↓	↓	↓	↓	↓	↓		
1	↓	↓	↓	↓	1	↓	↓		
↓	↓	↓	↓	↓	↓	↓	↓		
30	↓	↓	↓	↓	.5	↓	↓		
↓	↓	↓	↓	↓	↓	↓	↓		
200	↓	↓	↓	↓	↓	↓	↓		
.01	3	2	BCI	18 VDC High	5	3	✓		
↓	↓	↓	↓	↓	↓	↓	↓		
1	↓	↓	↓	↓	1	↓	↓		
↓	↓	↓	↓	↓	↓	↓	↓		
30	↓	↓	↓	↓	.5	↓	↓		
↓	↓	↓	↓	↓	↓	↓	↓		
200	↓	↓	↓	↓	↓	↓	↓		

Tested by: Michael Westman (Printed) (Signature)

Reviewed by: David T Schaefer (Printed) (Signature)

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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CONDUCTED SUSCEPTIBILITY

Test Report #: NC72106774 Test Area: 7

EUT Model #: ACMIL1950-4337 Date: 1 July, 2015

EUT Serial #: N/A EUT Power: 115 VAC, 400 Hz Temperature: 24 °C

Test Method: Mil Std 461F, CS116 Air Pressure: 98.2 kPa

Customer: Lind Electronics Design Relative Humidity: 44 %

EUT Description: AC Adapter Page: 1 of 13

Notes:

Test Frequency (MHz)	Test Level (Amps)	Duration (minutes)	Injection Method	Lead Description (Type)	Complies Yes	Complies No	Remarks
.01	.1	5	BCI	DC Output Cable	✓		
.1	1	5	BCI	DC Output Cable	✓		
1	10	5	BCI	DC Output Cable	✓		
10	10	5	BCI	DC Output Cable	✓		At Calibrated Level
30	10	5	BCI	DC Output Cable	✓		At Calibrated Level
100	3	5	BCI	DC Output Cable	✓		At Calibrated Level

Tested by: Michael Westman (Printed) Signature

Reviewed by: David T Schaefer (Printed) Signature

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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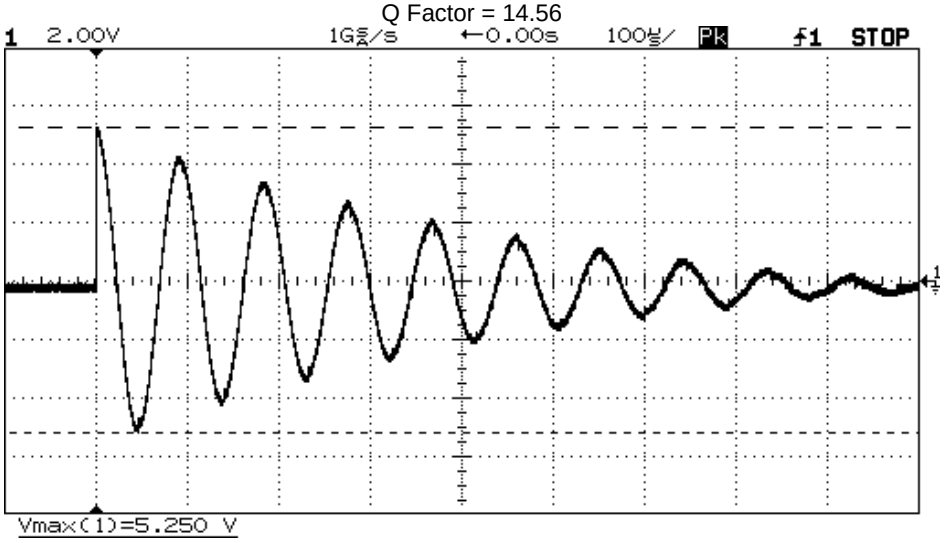
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	1 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.2 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	2 of 13
Notes:					

10 kHz Calibration into 50 Ohms – 5 Volts = .1 Amp
Q Factor = 14.56



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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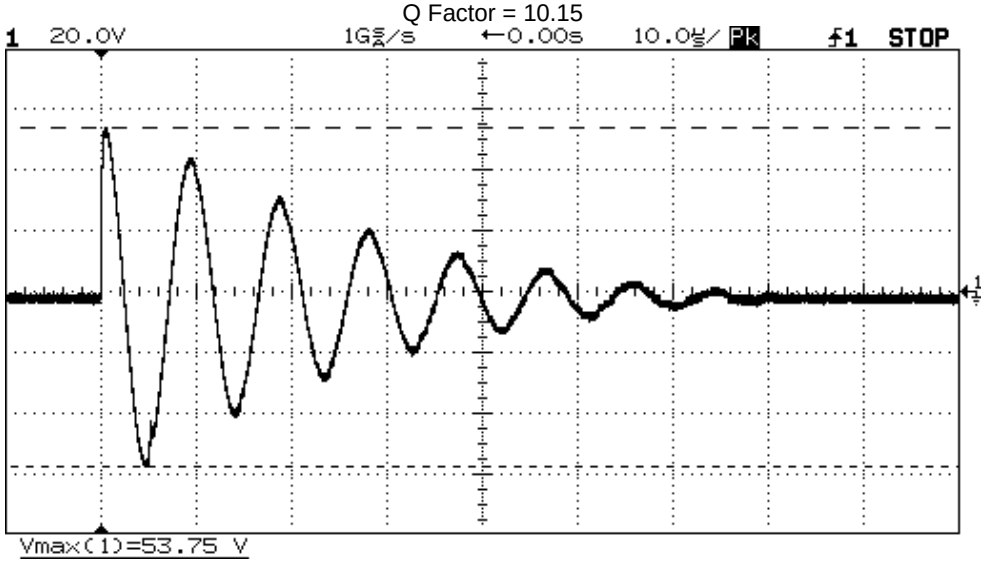
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	1 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.2 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	3 of 13
Notes:					

100 kHz Calibration into 50 Ohms – 50 Volts = 1 Amp
Q Factor = 10.15



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key

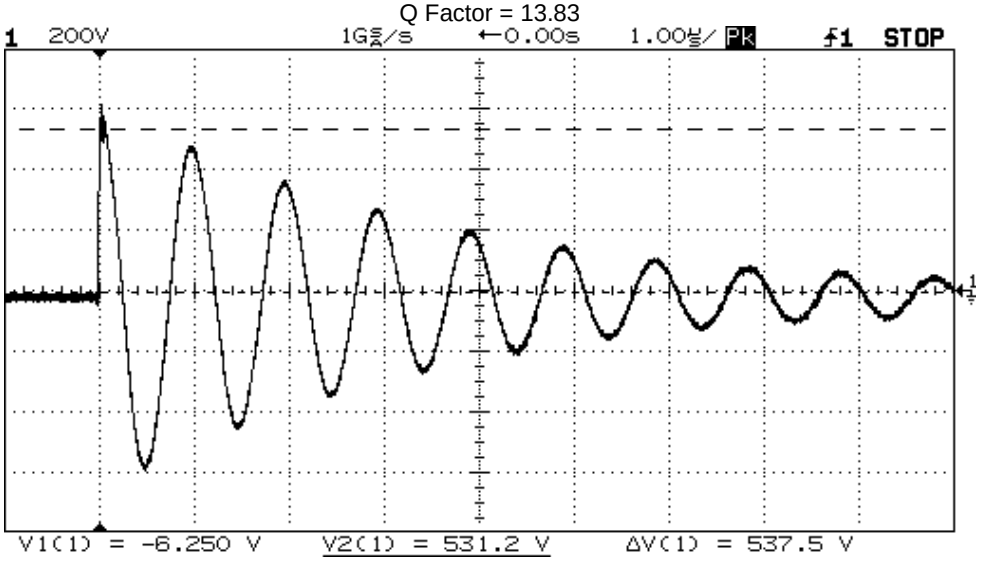
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-01-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	1 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.2 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	4 of 13
Notes:					

1 MHz Calibration into 50 Ohms – 500 Volts = 10 Amps
Q Factor = 13.83



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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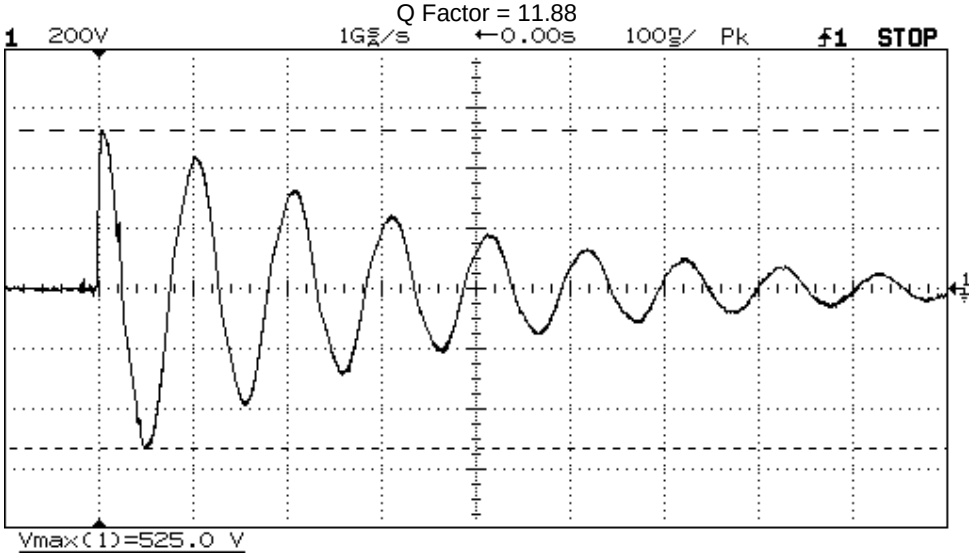
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	1 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.2 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	5 of 13
Notes:					

10 MHz Calibration into 50 Ohms – 500 Volts = 10 Amps
Q Factor = 11.88



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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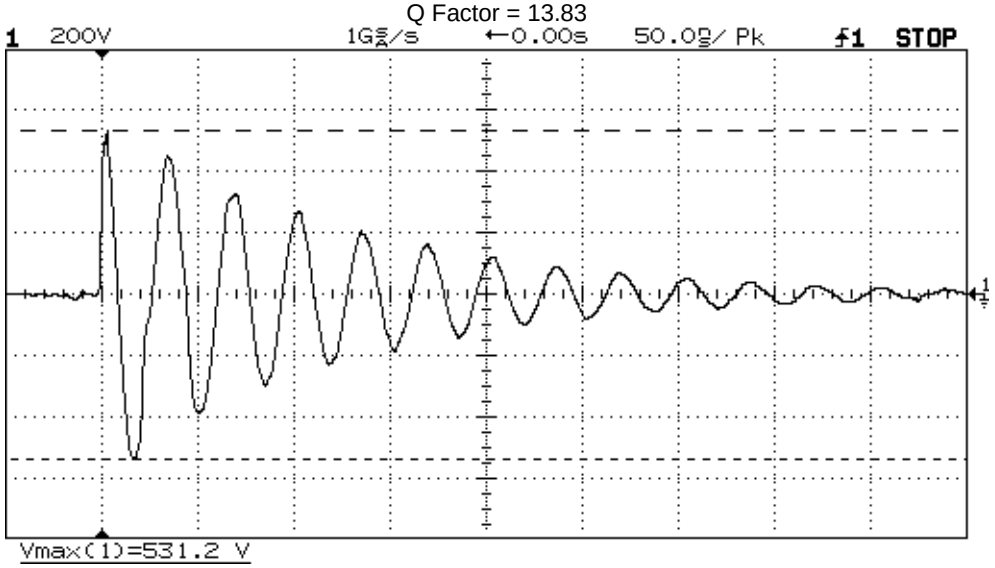
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	1 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.2 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	6 of 13
Notes:					

30 MHz Calibration into 50 Ohms – 500 Volts = 10 Amps
Q Factor = 13.83



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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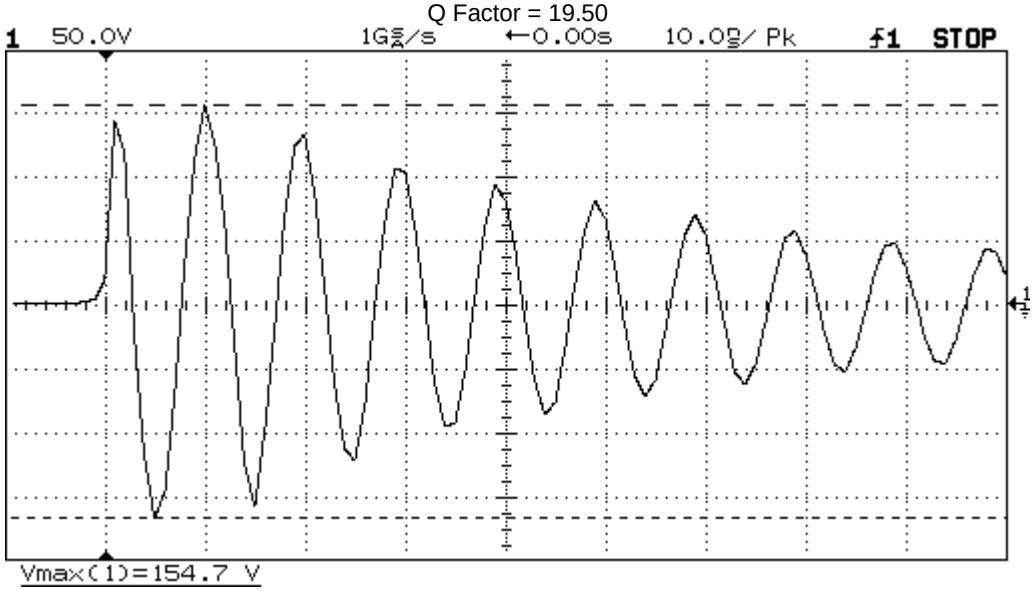
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	1 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.2 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	7 of 13
Notes:					

100 MHz Calibration into 50 Ohms – 150 Volts = 3 Amps
Q Factor = 19.50



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

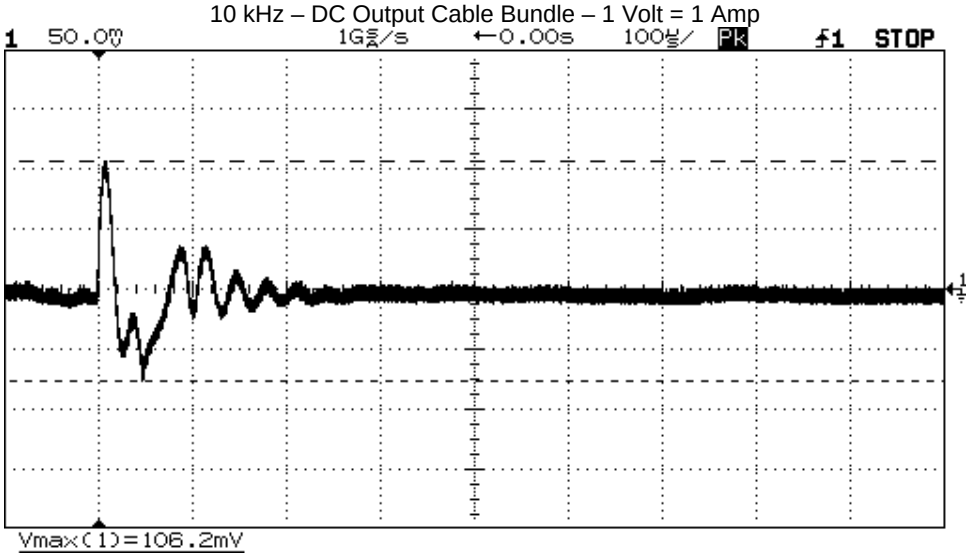
Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	1 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.2 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	8 of 13
Notes:					

10 kHz – DC Output Cable Bundle – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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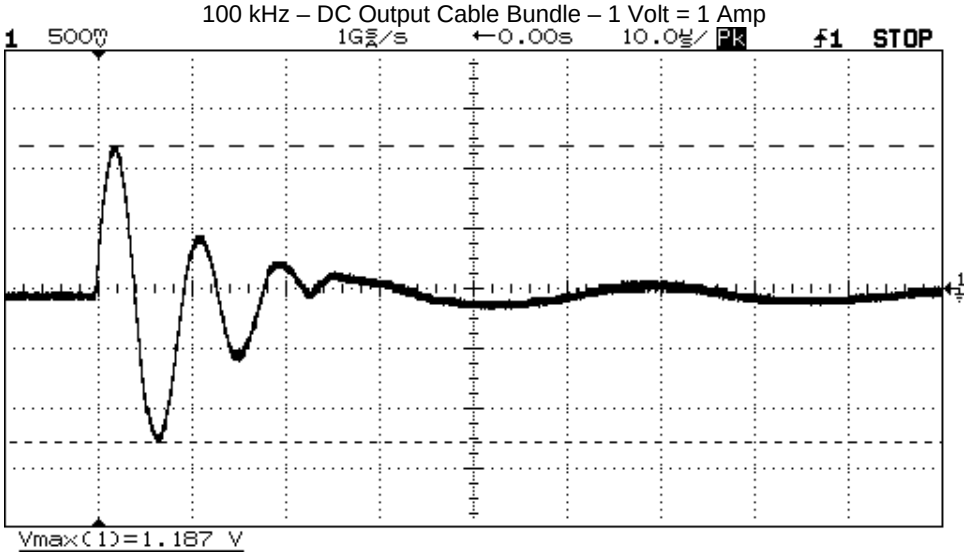
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	1 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.2 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	9 of 13
Notes:					

100 kHz – DC Output Cable Bundle – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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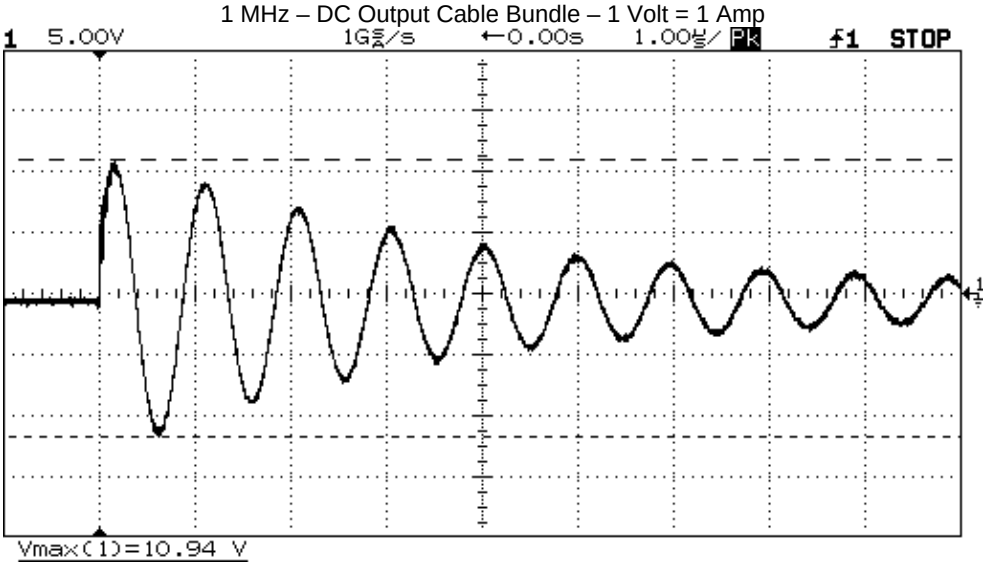
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	1 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.2 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	10 of 13
Notes:					

1 MHz – DC Output Cable Bundle – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

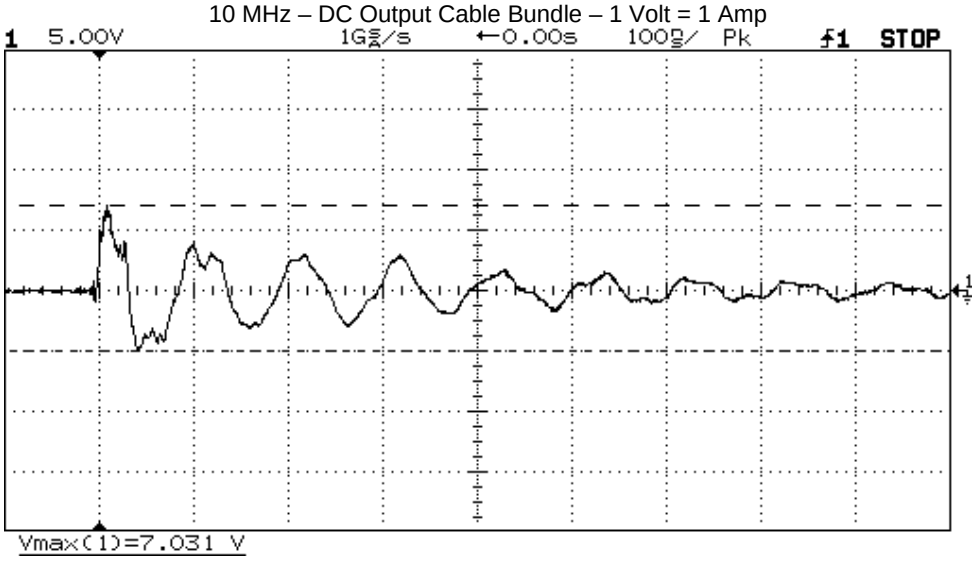
Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	1 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.2 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	11 of 13
Notes:					

10 MHz – DC Output Cable Bundle – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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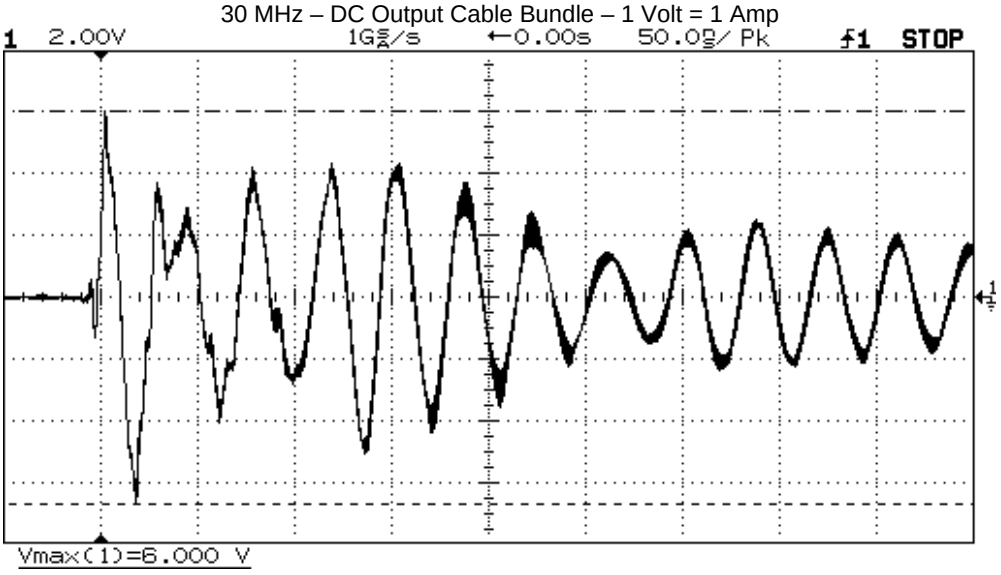
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	1 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.2 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	12 of 13
Notes:					

30 MHz – DC Output Cable Bundle – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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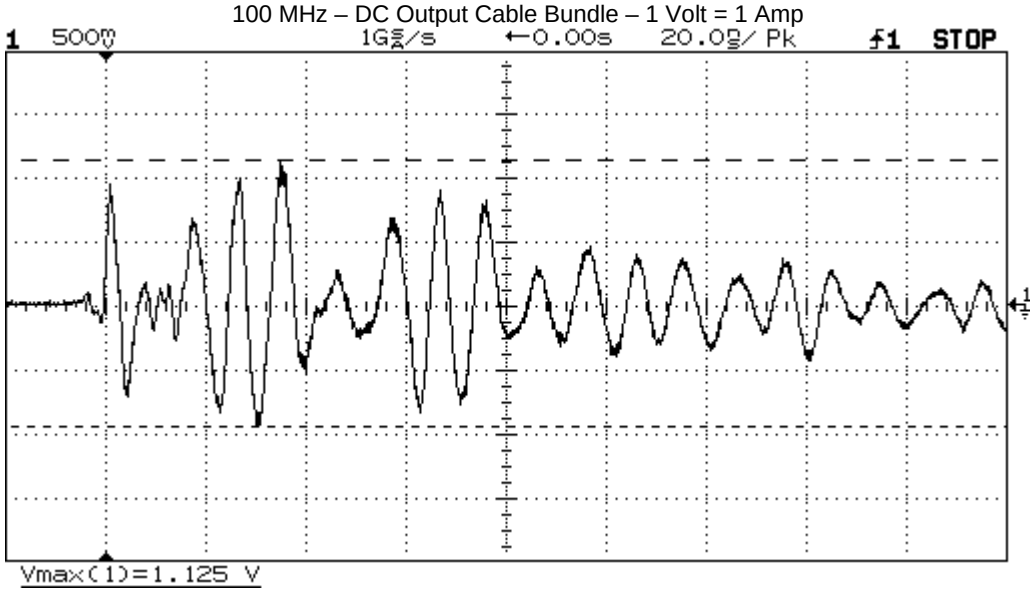
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	1 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.2 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	13 of 13
Notes:					

100 MHz – DC Output Cable Bundle – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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CONDUCTED SUSCEPTIBILITY

Test Report #: NC72106774 Test Area: 7

EUT Model #: ACMIL1950-4337 Date: 2 July, 2015

EUT Serial #: N/A EUT Power: 115 VAC, 400 Hz Temperature: 24 °C

Test Method: Mil Std 461F, CS116 Air Pressure: 98.4 kPa

Customer: Lind Electronics Design Relative Humidity: 44 %

EUT Description: AC Adapter Page: 1 of 25

Notes:

Test Frequency (MHz)	Test Level (Amps)	Duration (minutes)	Injection Method	Lead Description (Type)	Complies Yes	Complies No	Remarks
.01	.1	5	BCI	18 VDC High	✓		
.1	1	5	BCI	18 VDC High	✓		
1	10	5	BCI	18 VDC High	✓		
10	10	5	BCI	18 VDC High	✓		
30	10	5	BCI	18 VDC High	✓		
100	3	5	BCI	18 VDC High	✓		At Calibrated Level
.01	.1	5	BCI	AC Input Bundle	✓		
.1	1	5	BCI	AC Input Bundle	✓		
1	10	5	BCI	AC Input Bundle	✓		
10	10	5	BCI	AC Input Bundle	✓		
30	10	5	BCI	AC Input Bundle	✓		At Calibrated Level
100	3	5	BCI	AC Input Bundle	✓		At Calibrated Level
.01	.1	5	BCI	115 VAC High	✓		
.1	1	5	BCI	115 VAC High	✓		
1	10	5	BCI	115 VAC High	✓		
10	10	5	BCI	115 VAC High	✓		
30	10	5	BCI	115 VAC High	✓		
100	3	5	BCI	115 VAC High	✓		At Calibrated Level

Tested by: Michael Westman
Printed

Signature

Reviewed by: David T Schaefer
Printed

Signature

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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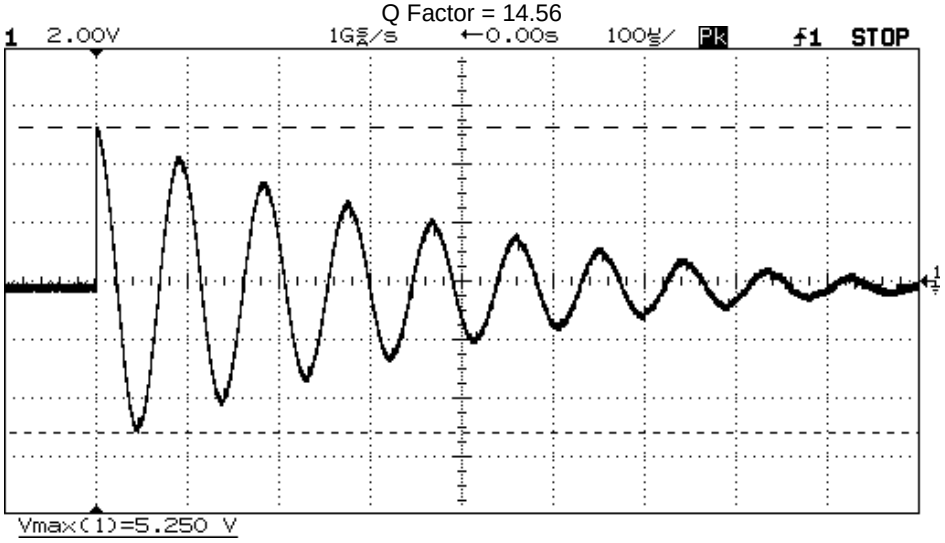
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	2 of 25
Notes:					

10 kHz Calibration into 50 Ohms – 5 Volts = .1 Amp
Q Factor = 14.56



Tested by:	Michael Westman		
	Printed	Signature	
Reviewed by:	David T Schaefer		
	Printed	Signature	

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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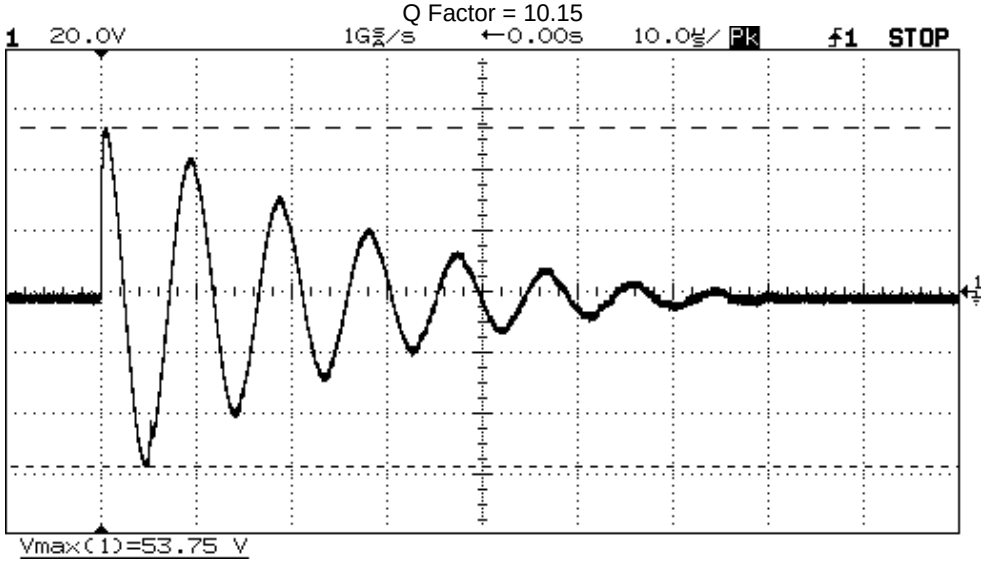
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	3 of 25
Notes:					

100 kHz Calibration into 50 Ohms – 50 Volts = 1 Amp
Q Factor = 10.15



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

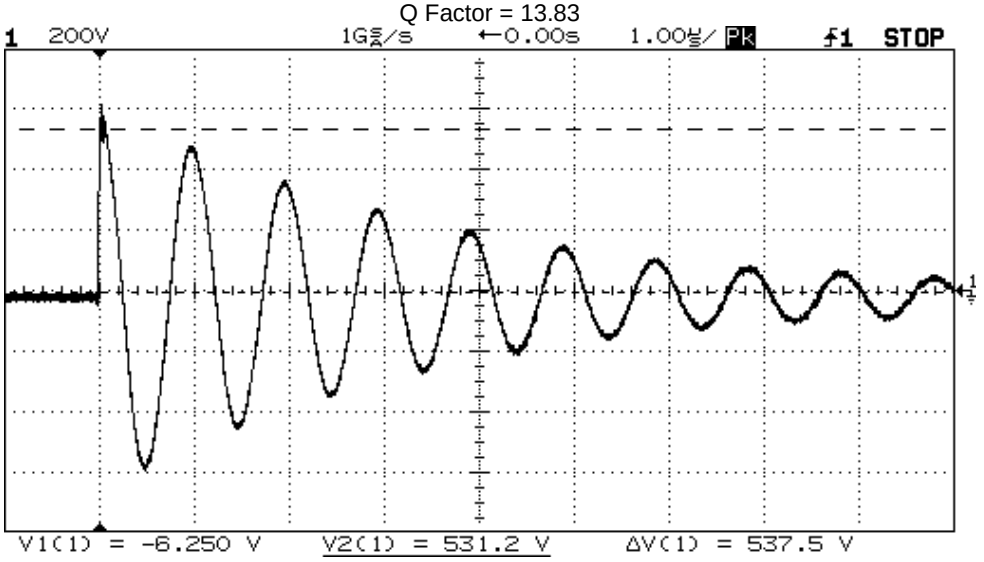
Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	4 of 25
Notes:					

1 MHz Calibration into 50 Ohms – 500 Volts = 10 Amps
Q Factor = 13.83



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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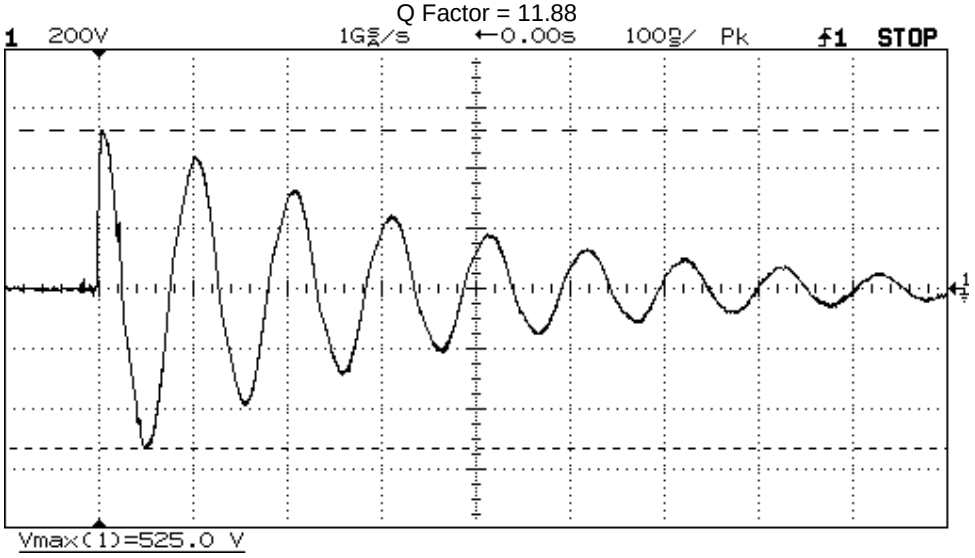
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	5 of 25
Notes:					

10 MHz Calibration into 50 Ohms – 500 Volts = 10 Amps
Q Factor = 11.88



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key

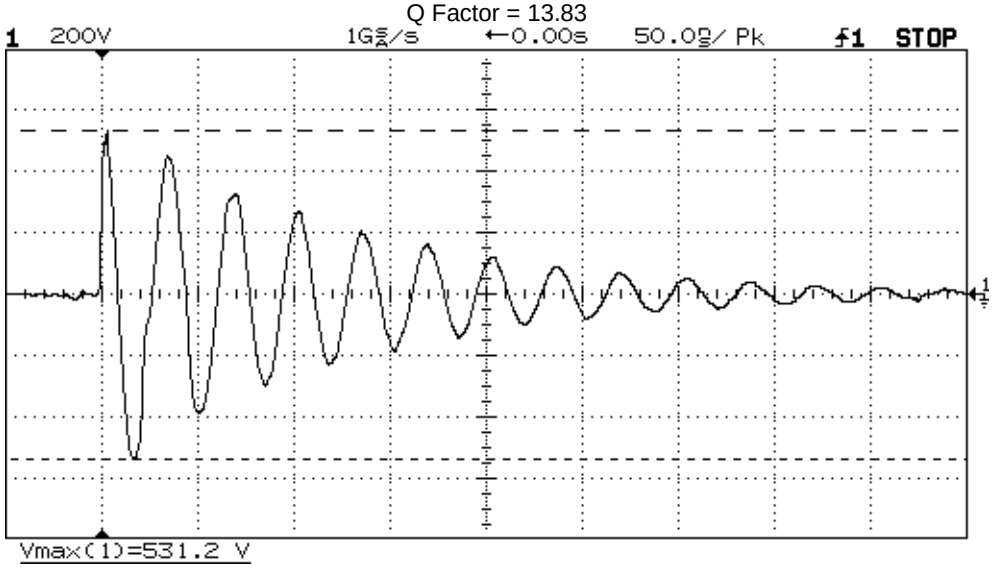
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	6 of 25
Notes:					

30 MHz Calibration into 50 Ohms – 500 Volts = 10 Amps
Q Factor = 13.83



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key

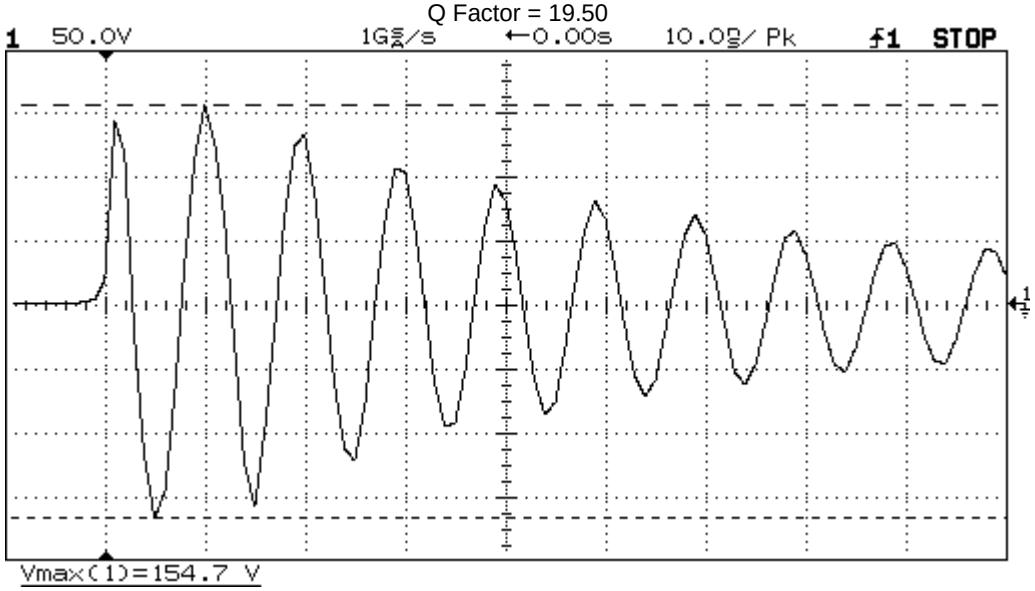
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	7 of 25
Notes:					

100 MHz Calibration into 50 Ohms – 150 Volts = 3 Amps
Q Factor = 19.50



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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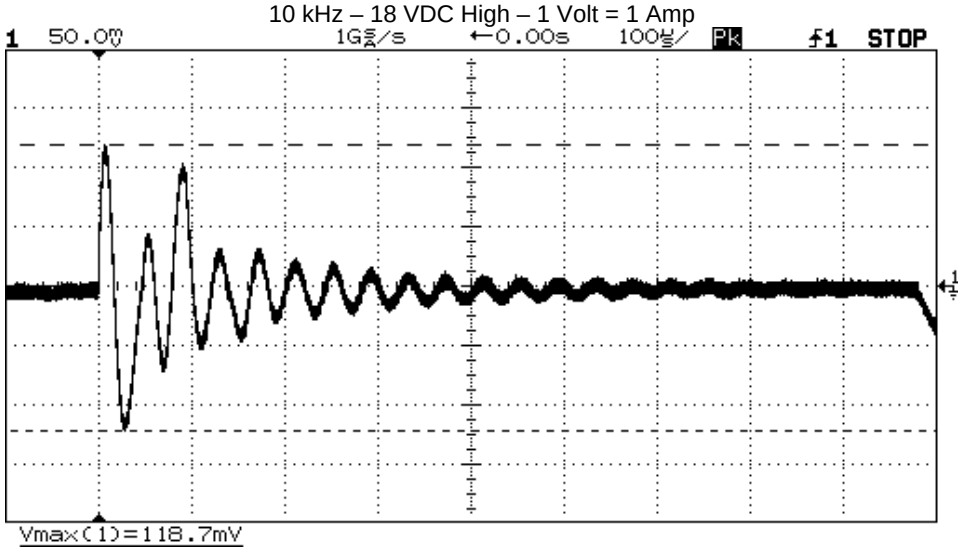
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	8 of 25
Notes:					

10 kHz – 18 VDC High – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

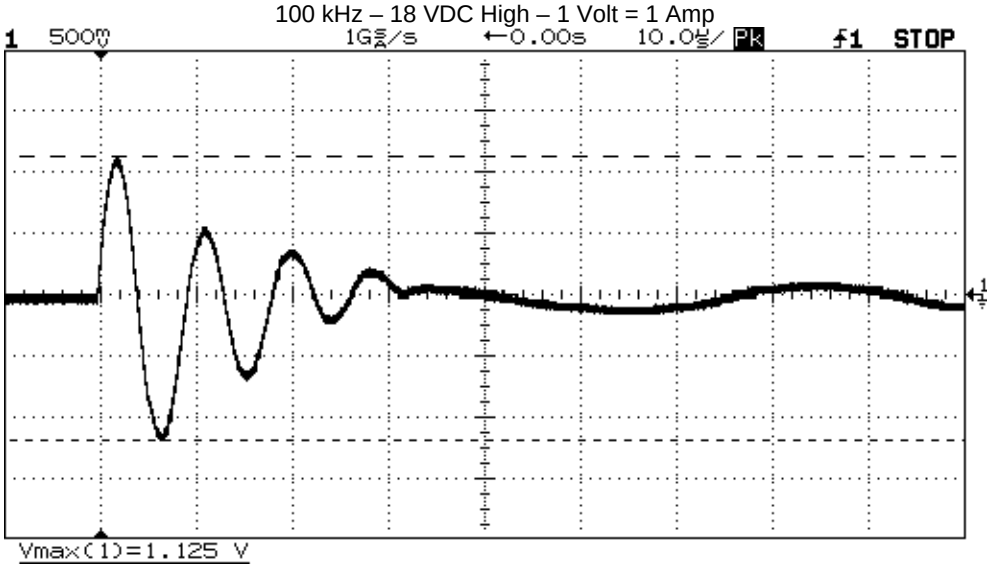
Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	9 of 25
Notes:					

100 kHz – 18 VDC High – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

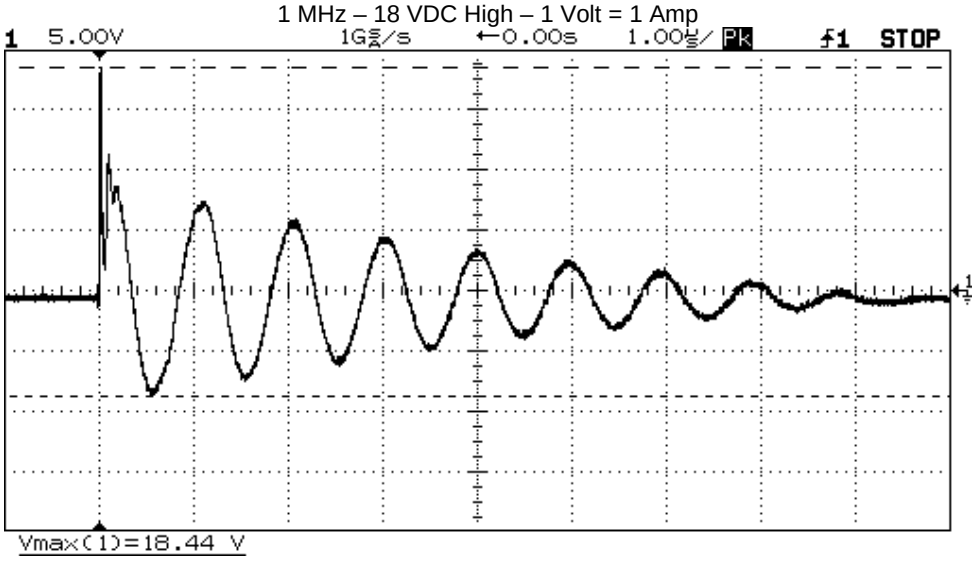
Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	10 of 25
Notes:					

1 MHz – 18 VDC High – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

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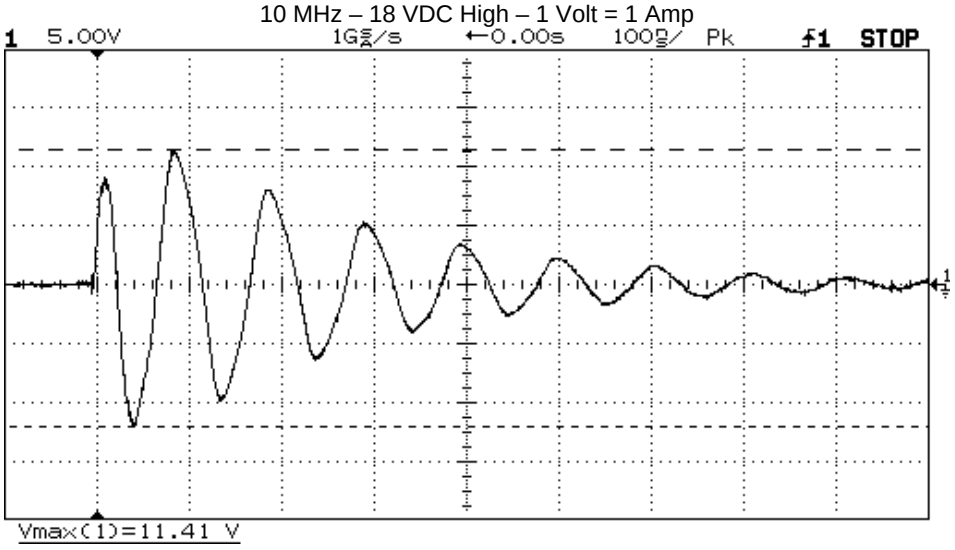
CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	11 of 25
Notes:					

10 MHz – 18 VDC High – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

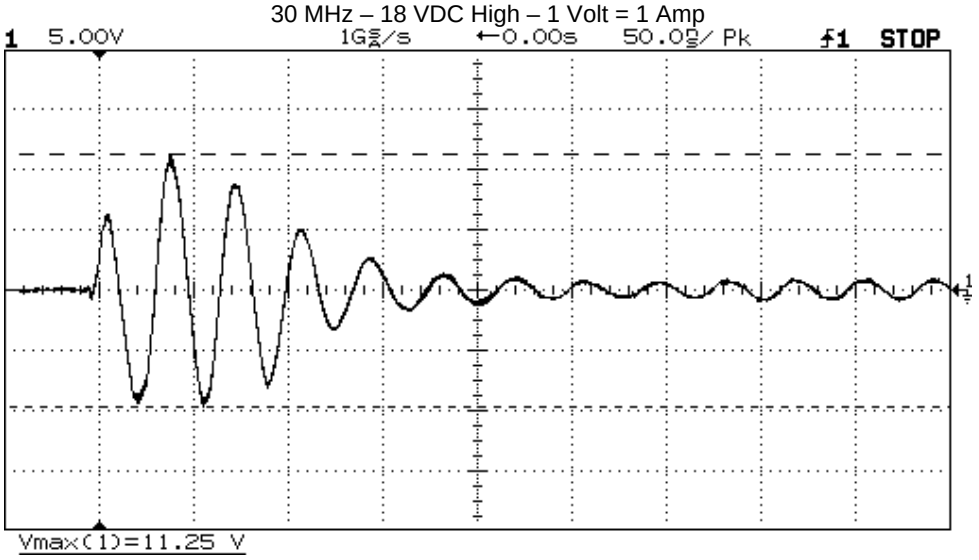
Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	12 of 25
Notes:					

30 MHz – 18 VDC High – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key

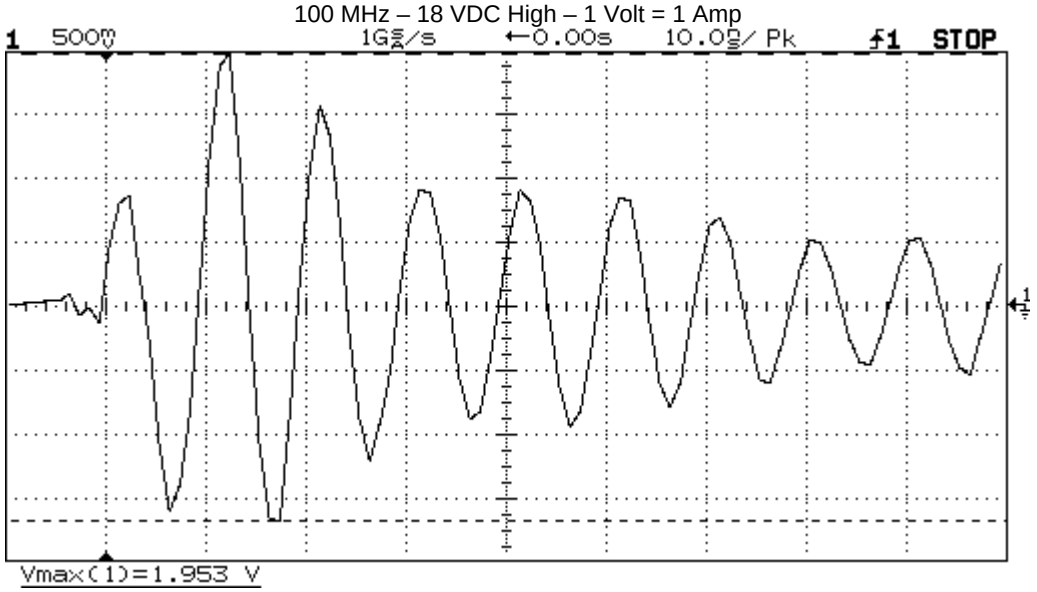
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	13 of 25
Notes:					

100 MHz – 18 VDC High – 1 Volt = 1 Amp



Tested by:	Michael Westman	
	Printed	Signature
Reviewed by:	David T Schaefer	
	Printed	Signature

Modulation Key

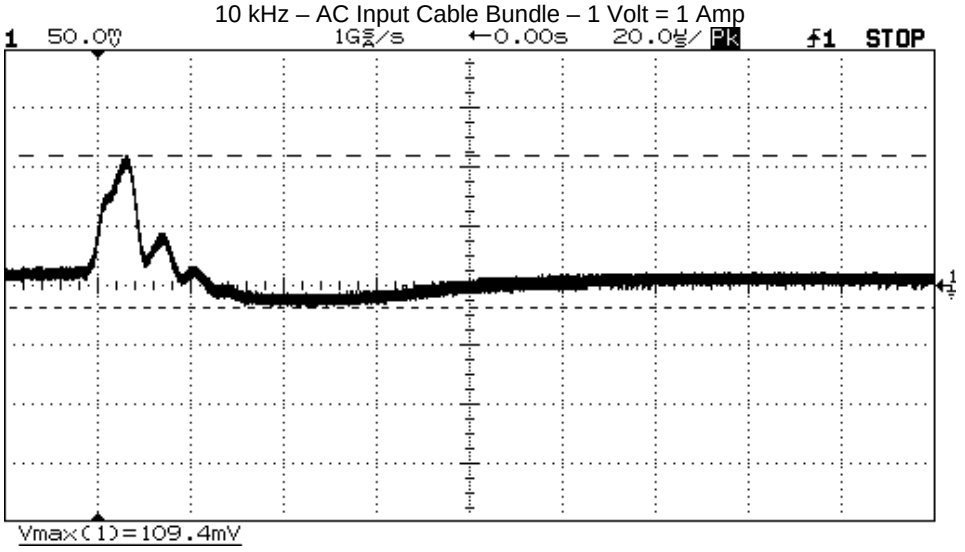
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	14 of 25
Notes:					

10 kHz – AC Input Cable Bundle – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

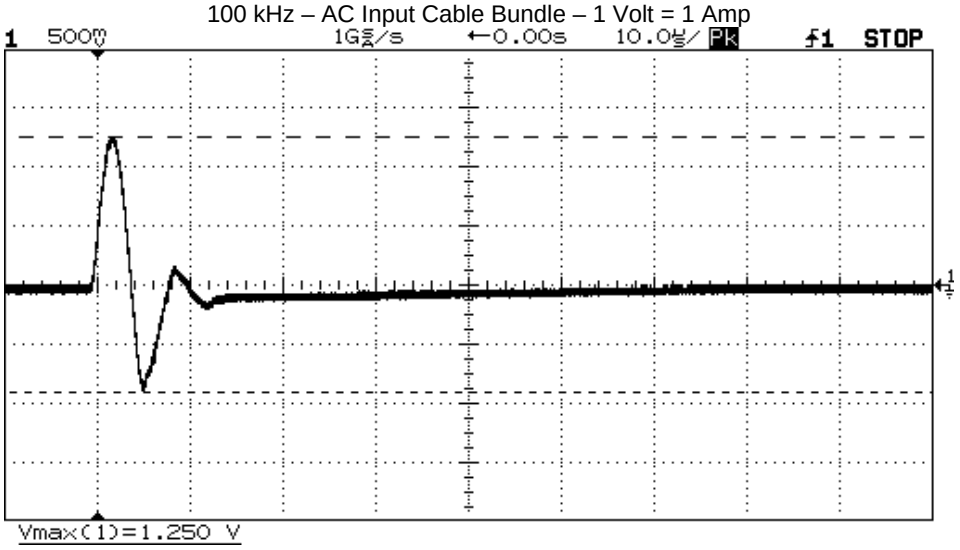
Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	15 of 25
Notes:					

100 kHz – AC Input Cable Bundle – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

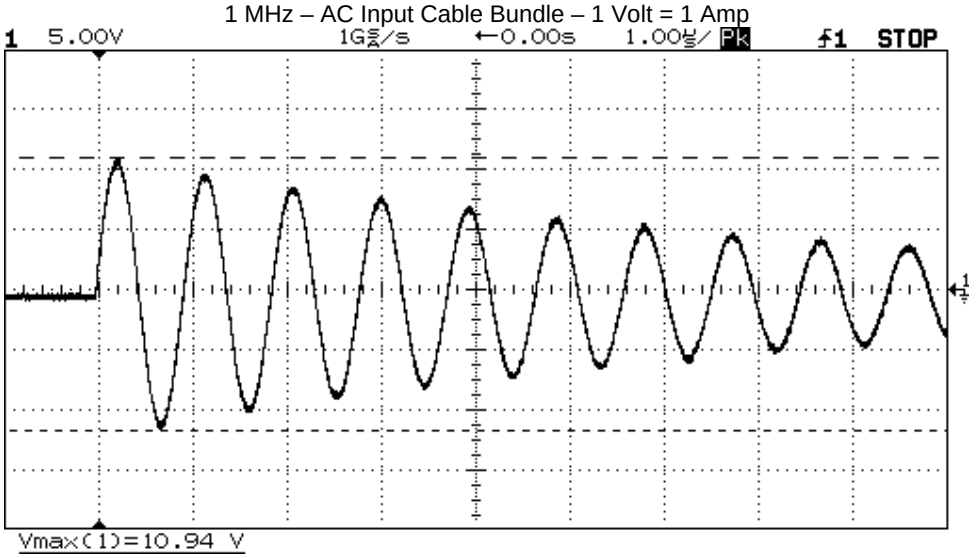
Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	16 of 25
Notes:					

1 MHz – AC Input Cable Bundle – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

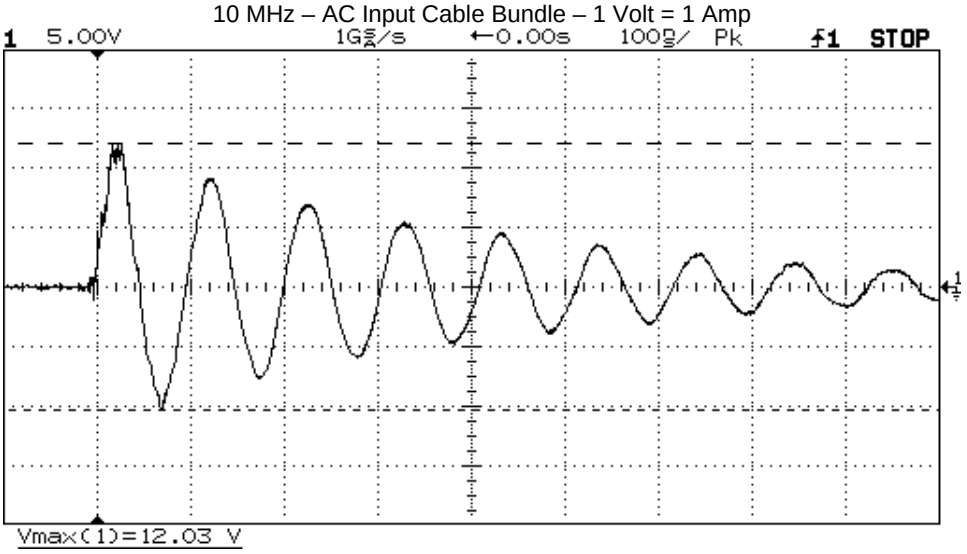
Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	17 of 25
Notes:					

10 MHz – AC Input Cable Bundle – 1 Volt = 1 Amp



Tested by:	Michael Westman		
	Printed	Signature	
Reviewed by:	David T Schaefer		
	Printed	Signature	

Modulation Key

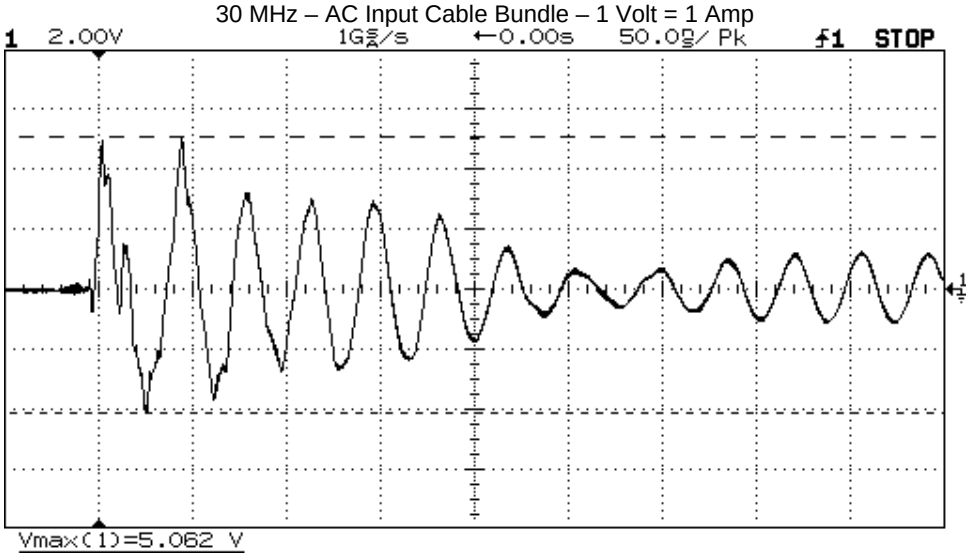
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	18 of 25
Notes:					

30 MHz – AC Input Cable Bundle – 1 Volt = 1 Amp



Tested by: Michael Westman
Printed

Signature

Reviewed by: David T Schaefer
Printed

Signature

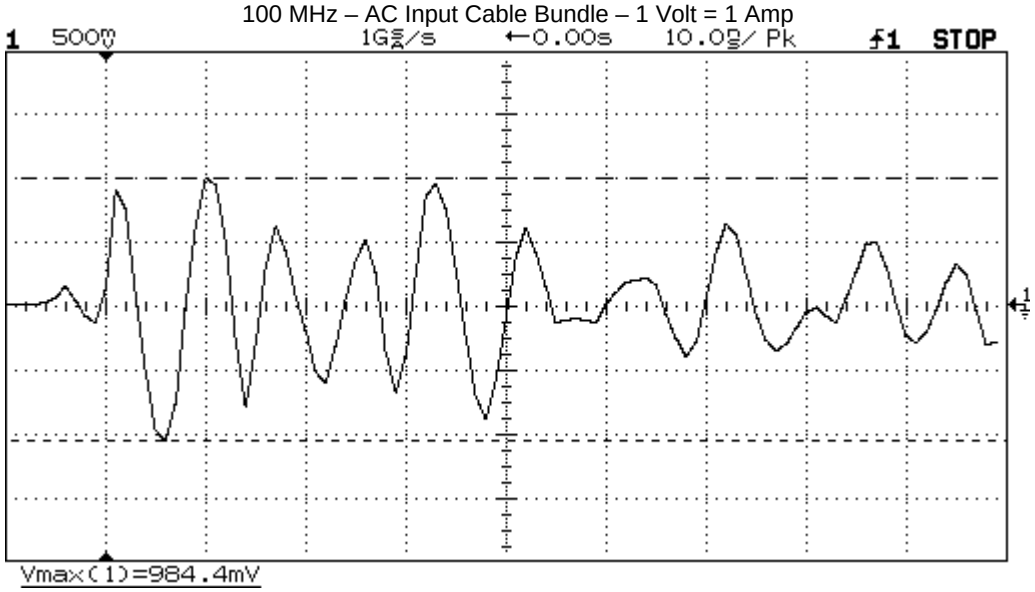
Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	19 of 25
Notes:					

100 MHz – AC Input Cable Bundle – 1 Volt = 1 Amp



Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

Tested by: Michael Westman (Printed) _____ (Signature)

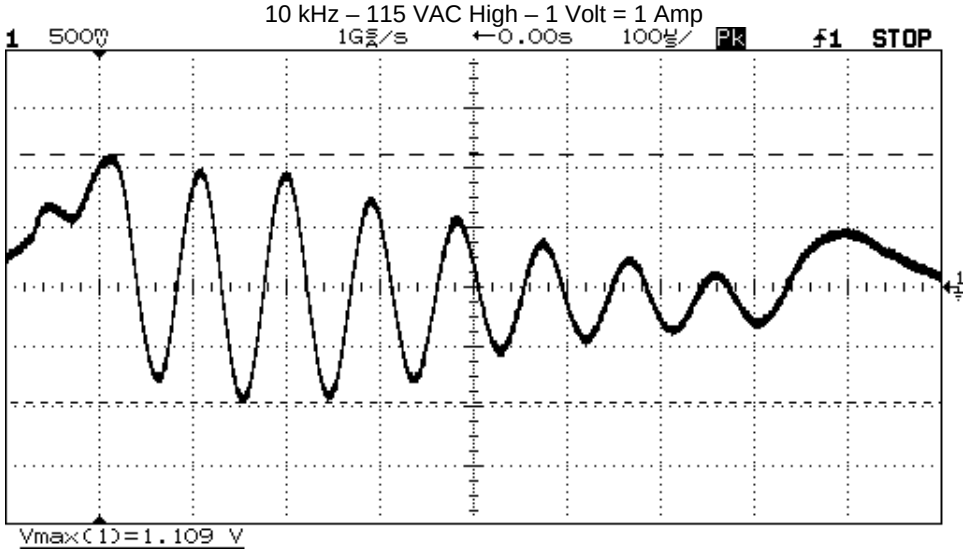
Reviewed by: David T Schaefer (Printed) _____ (Signature)

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	20 of 25
Notes:					

10 kHz – 115 VAC High – 1 Volt = 1 Amp



Tested by: Michael Westman
Printed

Signature

Reviewed by: David T Schaefer
Printed

Signature

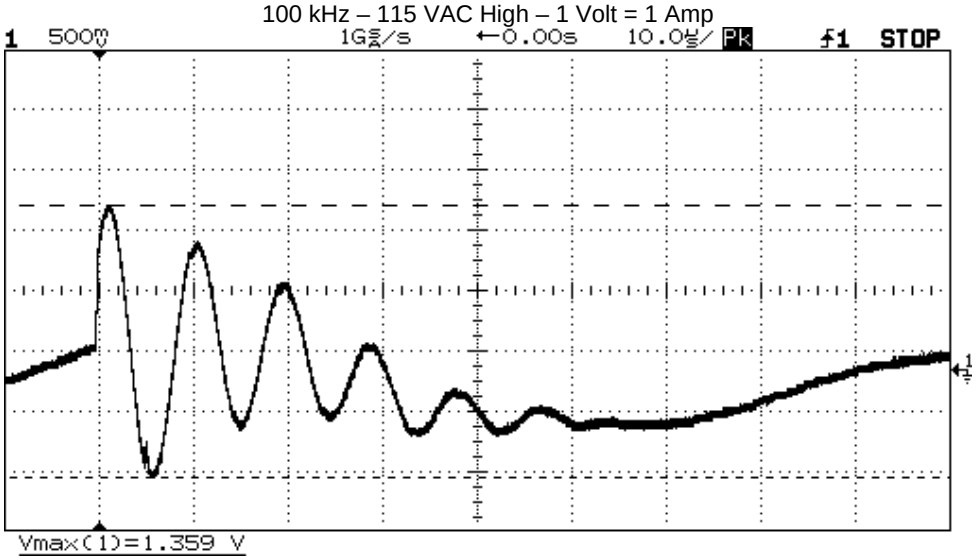
Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	21 of 25
Notes:					

100 kHz – 115 VAC High – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

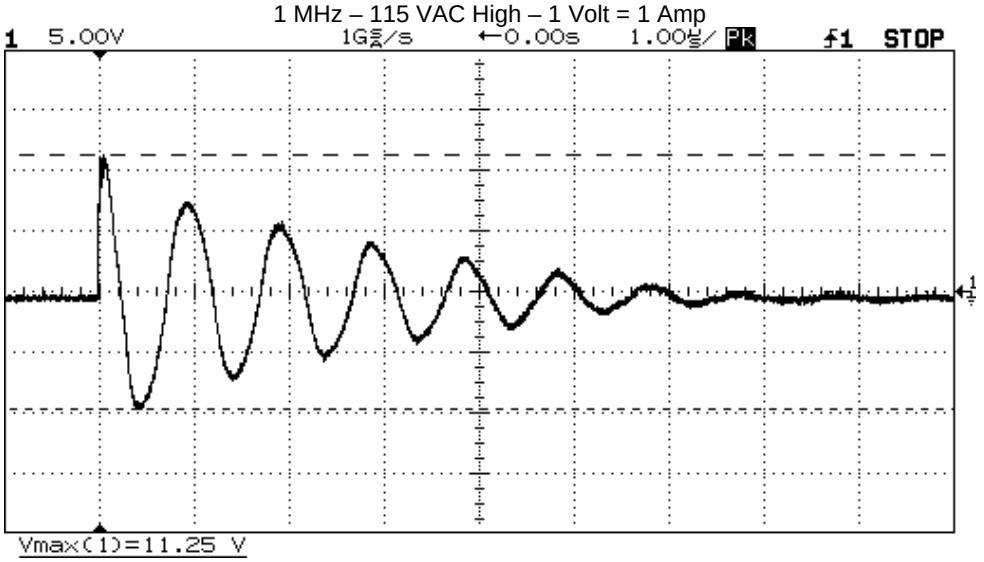
Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	22 of 25
Notes:					

1 MHz – 115 VAC High – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

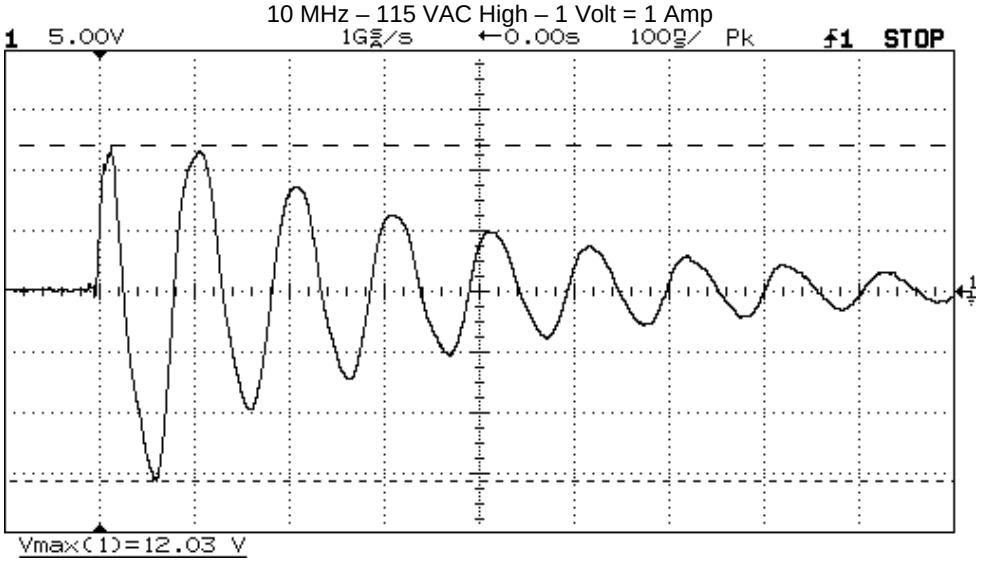
Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	23 of 25
Notes:					

10 MHz – 115 VAC High – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

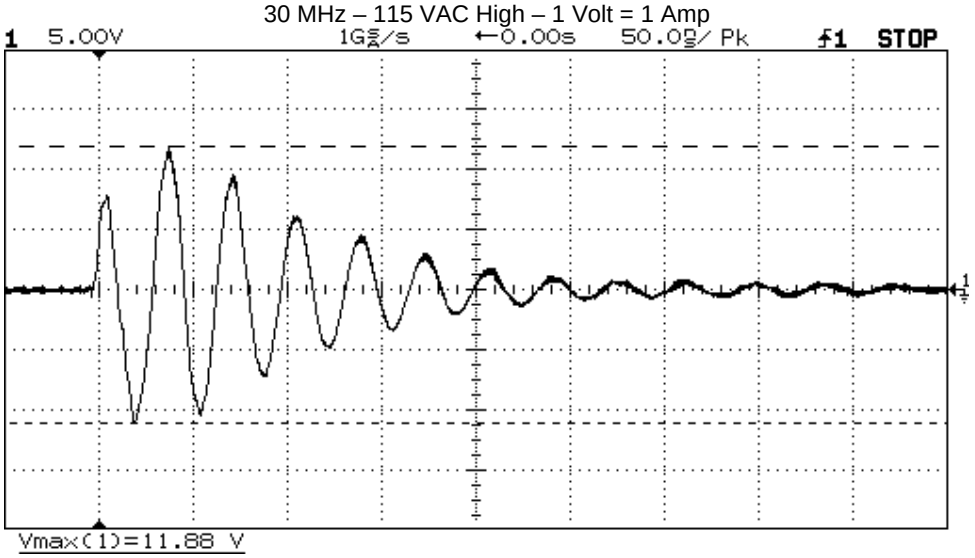
Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	24 of 25
Notes:					

30 MHz – 115 VAC High – 1 Volt = 1 Amp



Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

Tested by: Michael Westman (Printed) — (Signature)

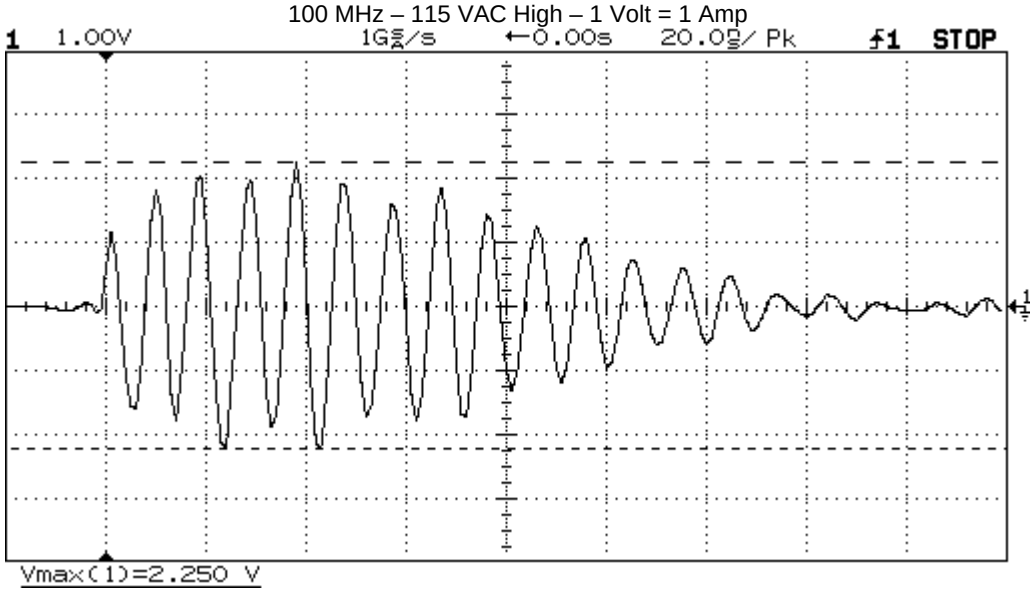
Reviewed by: David T Schaefer (Printed) — (Signature)

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

CONDUCTED SUSCEPTIBILITY

Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	2 July, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	24 °C
Test Method:	Mil Std 461F, CS116			Air Pressure:	98.4 kPa
Customer:	Lind Electronics Design			Relative Humidity:	44 %
EUT Description:	AC Adapter			Page:	25 of 25
Notes:					

100 MHz – 115 VAC High – 1 Volt = 1 Amp



Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3	AM	1 kHz	Sine	N/A	80%
4					
5					

T:\L\Lind Electronics\ACMIL 1950\72106774\Rpt_Docs\IM\6774-CS116-02-mjw.doc

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L / R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	1 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Report Number: 1

Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
10.000 kHz - 100.000 kHz	Active Rod Antenna	N/A	1.0 kHz	System check per Mil Std 461F, RE102, 5.17.3.4.c. At 10 kHz	Pass

Peak Over/Under Limit 1 Value: -6.49dB @ 10.09 kHz

Report Number: 2

Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
2.000 MHz - 10.000 MHz	Active Rod Antenna	N/A	10.0 kHz	System check per Mil Std 461F, RE102, 5.17.3.4.c. At 2 MHz	Pass

Peak Over/Under Limit 1 Value: -6.32dB @ 2 MHz

Tested by: Michael Westman (Printed) — (Signature)

Reviewed by: David T Schaefer (Printed) — (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L / R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	2 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Report Number: 3

Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
2.000 MHz - 10.000 MHz	Active Rod Antenna	N/A	10.0 kHz	System check per Mil Std 461F, RE102, 5.17.3.4.c. At 8 MHz	Pass

Peak Over/Under Limit 1 Value: -6.32dB @ 8 MHz

Report Number: 4

Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
10.000 MHz - 30.000 MHz	Active Rod Antenna	N/A	10.0 kHz	System check per Mil Std 461F, RE102, 5.17.3.4.c. At 30 MHz	Pass

Peak Over/Under Limit 1 Value: -6.57dB @ 30 MHz

Tested by: Michael Westman (Printed) — (Signature)

Reviewed by: David T Schaefer (Printed) — (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L / R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	3 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Report Number: 5

Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
30.000 MHz - 200.000 MHz	Biconical Antenna	N/A	100.0 kHz	System check per Mil Std 461F, RE102, 5.17.3.4.c. At 200 MHz	Pass

Peak Over/Under Limit 1 Value: -5.61dB @ 200 MHz

Report Number: 6

Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
200.000 MHz - 1.000 GHz	Dual Ridge Guide Antenna	N/A	100.0 kHz	System check per Mil Std 461F, RE102, 5.17.3.4.c. At 1 GHz	Pass

Peak Over/Under Limit 1 Value: -5.68dB @ 1 GHz

Tested by: Michael Westman (Printed) — (Signature)

Reviewed by: David T Schaefer (Printed) — (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L / R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	4 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Report Number: 7

Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
6.000 GHz - 18.000 GHz	Dual Ridge Guide Antenna	N/A	1.0 MHz	System check per Mil Std 461F, RE102, 5.17.3.4.c. At 18 GHz	Pass

Peak Over/Under Limit 1 Value: -7.33dB @ 18 GHz

Report Number: 8

Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
10.000 MHz - 30.000 MHz	Active Rod Antenna	N/A	10.0 kHz	System check per Mil Std 461F, RE102, 5.17.3.4.d. At 30 MHz	Pass

Peak Over/Under Limit 1 Value: -3.26dB @ 30 MHz

Tested by: Michael Westman (Printed) — (Signature)

Reviewed by: David T Schaefer (Printed) — (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L / R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	5 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Report Number: 9

Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
30.000 MHz - 200.000 MHz	Biconical Antenna	N/A	100.0 kHz	System check per Mil Std 461F, RE102, 5.17.3.4.d. At 200 MHz	Pass

Peak Over/Under Limit 1 Value: -5.80dB @ 200 MHz

Report Number: 10

Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
200.000 MHz - 1.000 GHz	Dual Ridge Guide Antenna	N/A	100.0 kHz	System check per Mil Std 461F, RE102, 5.17.3.4.d. At 1 GHz	Pass

Peak Over/Under Limit 1 Value: -5.53dB @ 1 GHz

Tested by: Michael Westman (Printed) — (Signature)

Reviewed by: David T Schaefer (Printed) — (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	6 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Report Number: 11

Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
6.000 GHz - 18.000 GHz	Dual Ridge Guide Antenna	N/A	1.0 MHz	System check per Mil Std 461F, RE102, 5.17.3.4.d. At 18 GHz	Pass

Peak Over/Under Limit 1 Value: -6.62dB @ 18 GHz

Tested by: Michael Westman (Printed) — (Signature)

Reviewed by: David T Schaefer (Printed) — (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L / R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top, U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	7 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Report Number: 12

Operational Mode: Ambient
Polarity: Vertical
EUT Face: Front
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
10.000 kHz - 100.000 kHz	Active Rod Antenna	1m	1.0 kHz		Pass
100.000 kHz - 150.000 kHz	Active Rod Antenna	1m	1.0 kHz		Pass
150.000 kHz - 2.000 MHz	Active Rod Antenna	1m	10.0 kHz		Pass
2.000 MHz - 10.000 MHz	Active Rod Antenna	1m	10.0 kHz		Pass
10.000 MHz - 30.000 MHz	Active Rod Antenna	1m	10.0 kHz		Pass
30.000 MHz - 200.000 MHz	Biconical Antenna	1m	100.0 kHz		Pass
200.000 MHz - 1.000 GHz	Dual Ridge Guide Antenna	1m	100.0 kHz		Pass
1.000 GHz - 6.000 GHz	Dual Ridge Guide Antenna	1m	1.0 MHz		Pass
6.000 GHz - 18.000 GHz	Dual Ridge Guide Antenna	1m	1.0 MHz		Pass

Peak Over/Under Limit 1 Value: -19.75dB @ 91.03 MHz

Tested by: Michael Westman (Printed) — (Signature)

Reviewed by: David T Schaefer (Printed) — (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	8 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Report Number: 13

Operational Mode: Ambient
Polarity: Horizontal
EUT Face: Front
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
30.000 MHz - 200.000 MHz	Biconical Antenna	1m	100.0 kHz		Pass
200.000 MHz - 1.000 GHz	Dual Ridge Guide Antenna	1m	100.0 kHz		Pass
1.000 GHz - 6.000 GHz	Dual Ridge Guide Antenna	1m	1.0 MHz		Pass
6.000 GHz - 18.000 GHz	Dual Ridge Guide Antenna	1m	1.0 MHz		Pass

Peak Over/Under Limit 1 Value: -16.50dB @ 94.6 MHz

Tested by: Michael Westman (Printed) — (Signature)

Reviewed by: David T Schaefer (Printed) — (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	9 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Report Number: 14

Operational Mode: Operational
Polarity: Vertical
EUT Face: Front
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
10.000 kHz - 100.000 kHz	Active Rod Antenna	1m	1.0 kHz		Pass
100.000 kHz - 150.000 kHz	Active Rod Antenna	1m	1.0 kHz		Pass
150.000 kHz - 2.000 MHz	Active Rod Antenna	1m	10.0 kHz		Pass
2.000 MHz - 10.000 MHz	Active Rod Antenna	1m	10.0 kHz		Pass
10.000 MHz - 30.000 MHz	Active Rod Antenna	1m	10.0 kHz		Pass
30.000 MHz - 200.000 MHz	Biconical Antenna	1m	100.0 kHz		Pass
200.000 MHz - 1.000 GHz	Dual Ridge Guide Antenna	1m	100.0 kHz		Pass
1.000 GHz - 6.000 GHz	Dual Ridge Guide Antenna	1m	1.0 MHz		Pass
6.000 GHz - 18.000 GHz	Dual Ridge Guide Antenna	1m	1.0 MHz		Pass

Peak Over/Under Limit 1 Value: -10.22dB @ 226.4 MHz

Tested by: Michael Westman (Printed) — (Signature)

Reviewed by: David T Schaefer (Printed) — (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	10 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Report Number: 15

Operational Mode: Operational
Polarity: Horizontal
EUT Face: Front
Limit 1: RE102-3 upper extended to 10 kHz

Frequency:	Transducer:	Transducer Distance:	Bandwidth:	Notes:	Pass/Fail:
30.000 MHz - 200.000 MHz	Biconical Antenna	1m	100.0 kHz		Pass
200.000 MHz - 1.000 GHz	Dual Ridge Guide Antenna	1m	100.0 kHz		Pass
1.000 GHz - 6.000 GHz	Dual Ridge Guide Antenna	1m	1.0 MHz		Pass
6.000 GHz - 18.000 GHz	Dual Ridge Guide Antenna	1m	1.0 MHz		Pass

Peak Over/Under Limit 1 Value: -14.81dB @ 207.2 MHz

Tested by: Michael Westman (Printed) — (Signature)

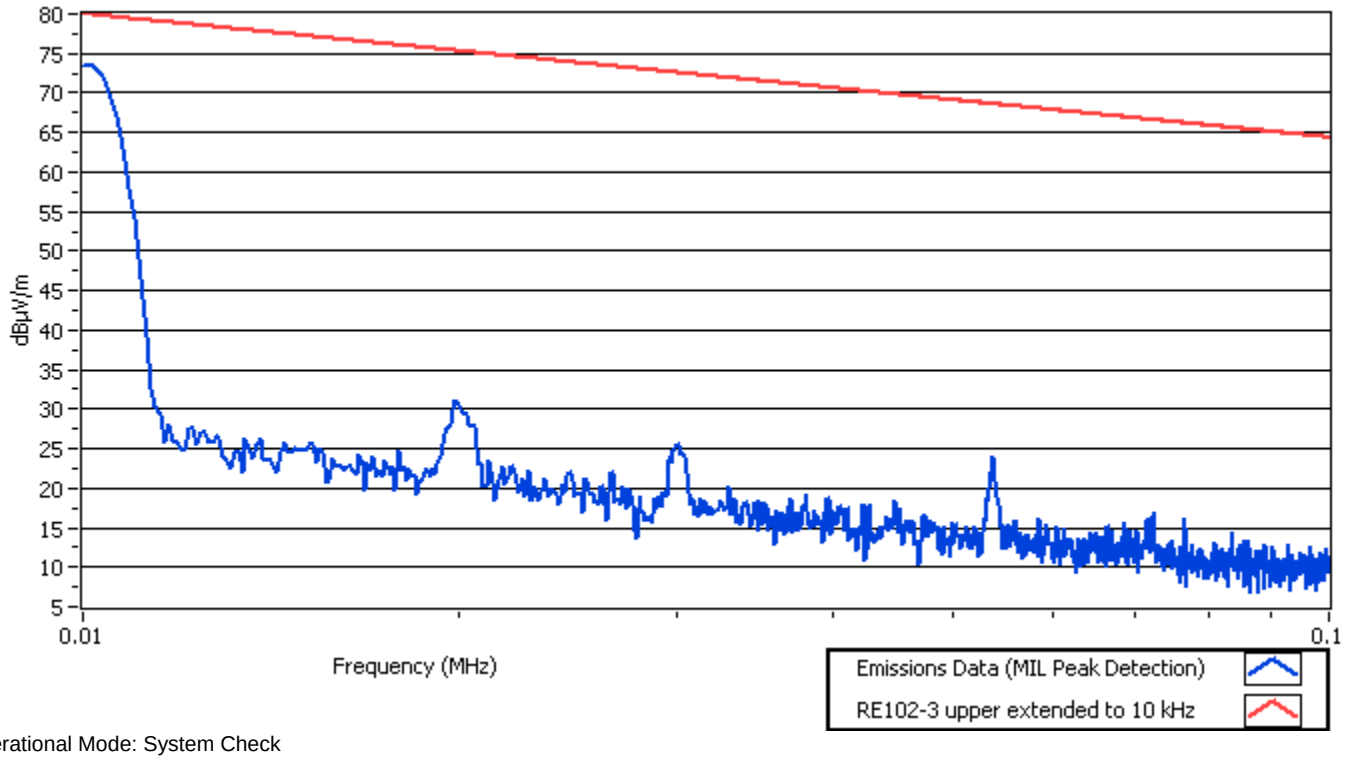
Reviewed by: David T Schaefer (Printed) — (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L / R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top, U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	11 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Plot: 1



Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Notes: System check per Mil Std 461F, RE102, 5.17.3.4.c. At 10 kHz

Tested by: Michael Westman (Printed) _____ (Signature)

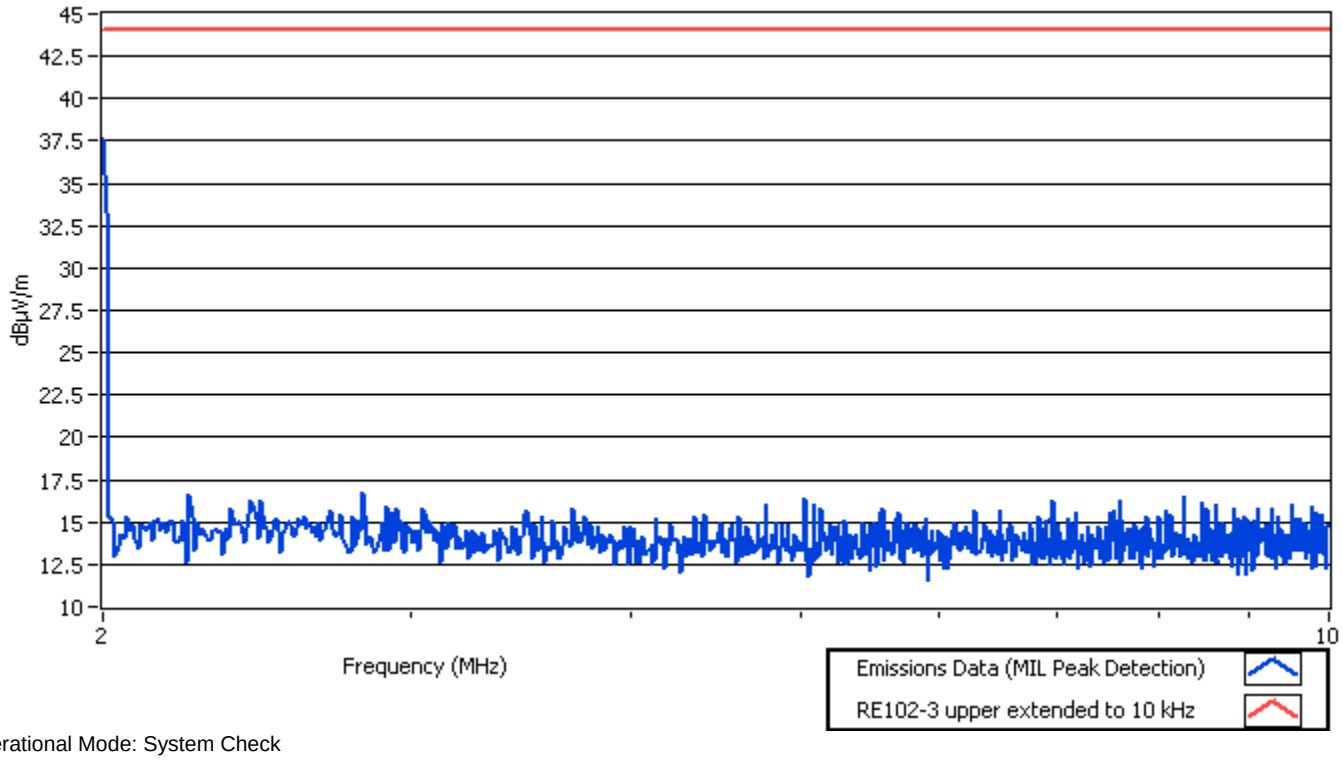
Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L / R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top, U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	12 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Plot: 2



Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Notes: System check per Mil Std 461F, RE102, 5.17.3.4.c. At 2 MHz

Tested by: Michael Westman (Printed) _____ (Signature)

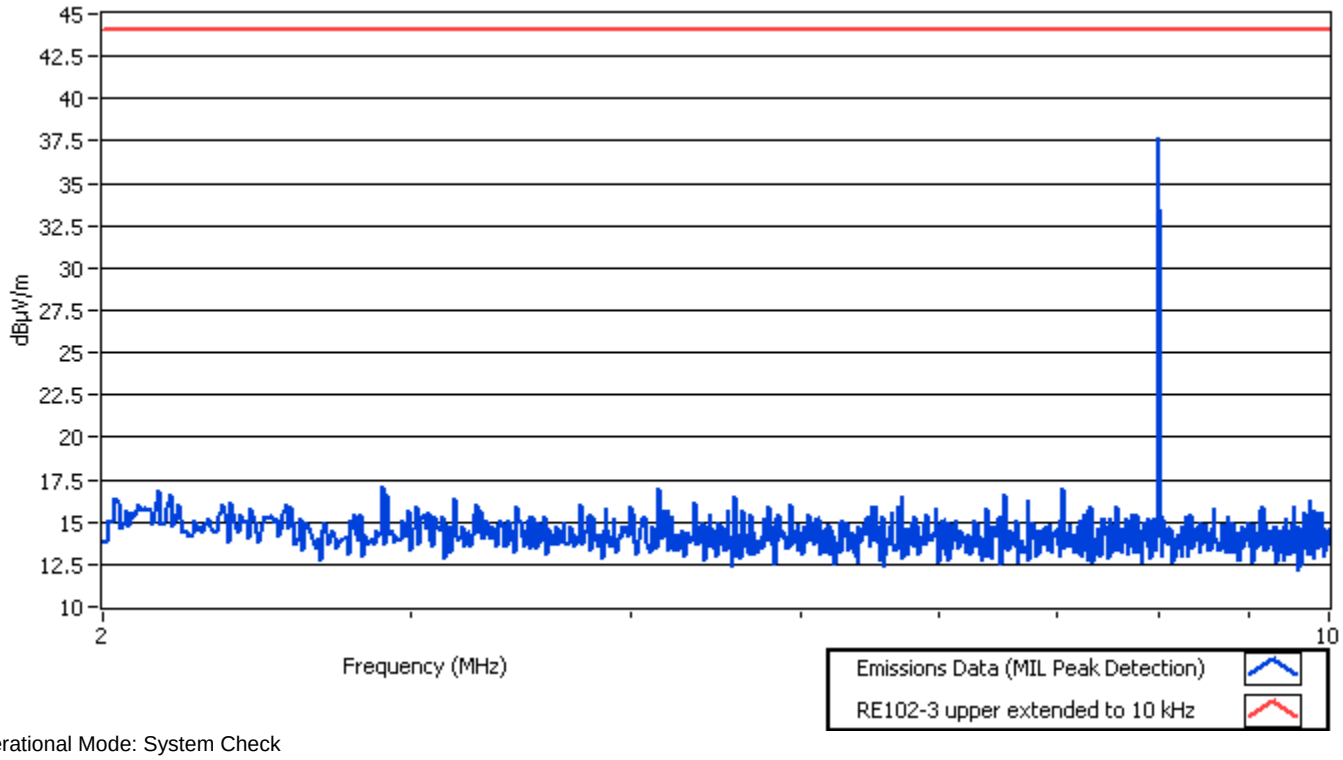
Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top, U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	13 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Plot: 3



Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Notes: System check per Mil Std 461F, RE102, 5.17.3.4.c. At 8 MHz

Tested by: Michael Westman (Printed) _____ (Signature)

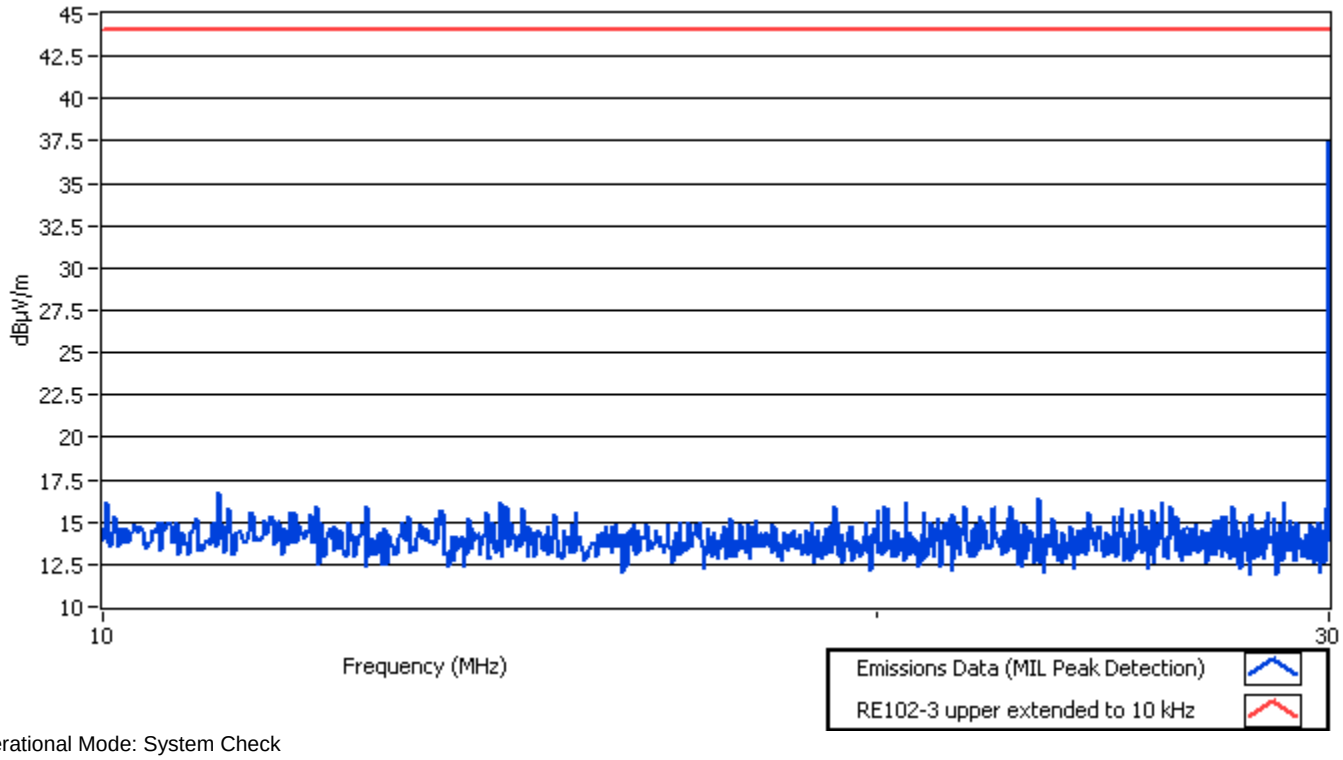
Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top, U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	14 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Plot: 4



Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Notes: System check per Mil Std 461F, RE102, 5.17.3.4.c. At 30 MHz

Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

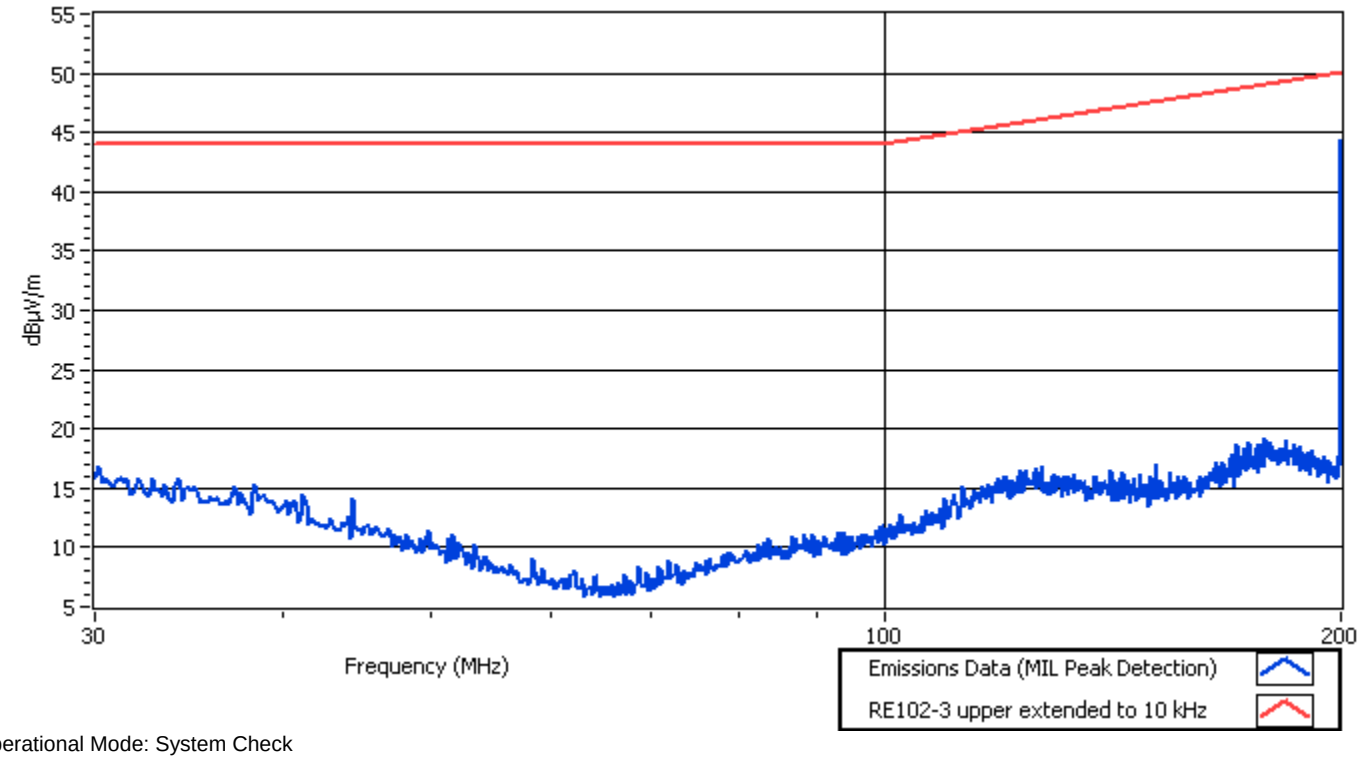
Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	15 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

FACE DEFINITION (TOP VIEW)

T = Top
U = Under Side

B
L R
F (Front)

Plot: 5



Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Notes: System check per Mil Std 461F, RE102, 5.17.3.4.c. At 200 MHz

Tested by: Michael Westman (Printed) (Signature)

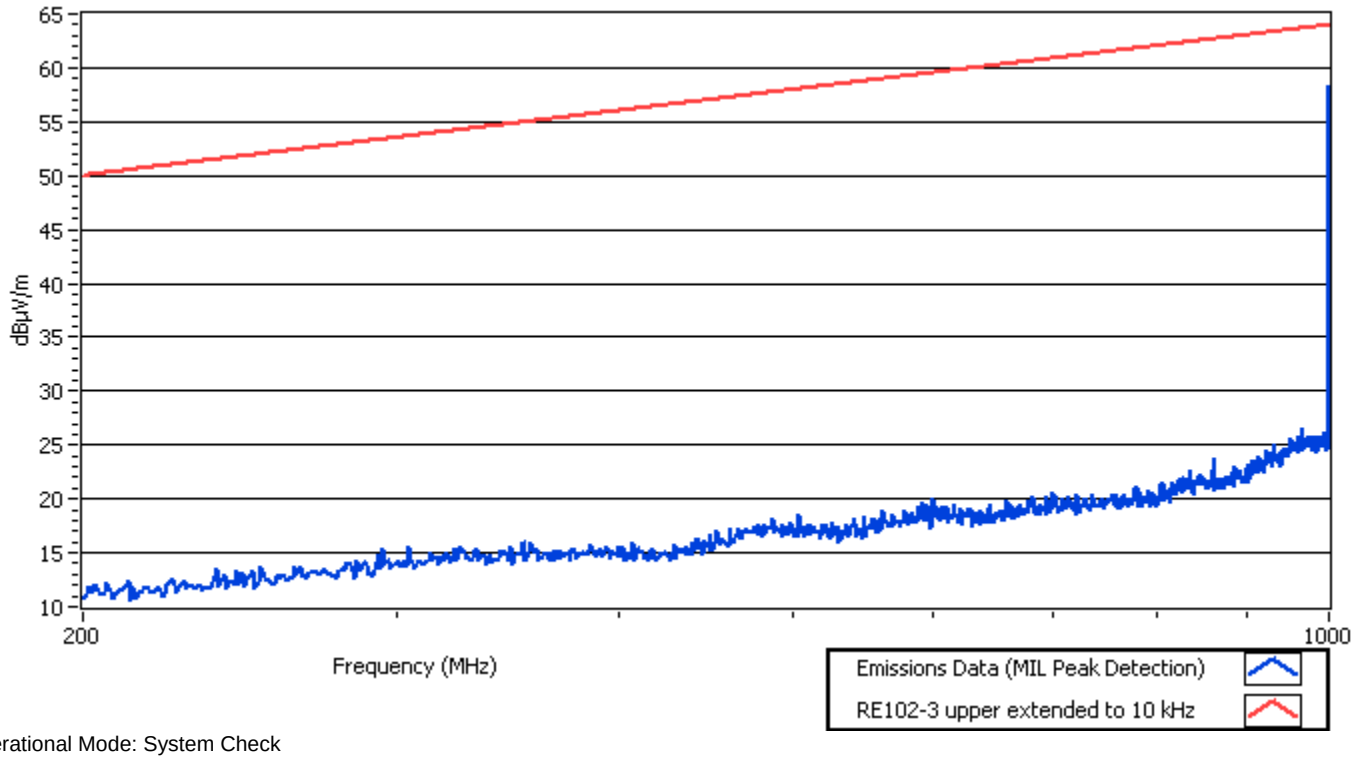
Reviewed by: David T Schaefer (Printed) (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L / R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top, U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	16 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Plot: 6



Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Notes: System check per Mil Std 461F, RE102, 5.17.3.4.c. At 1 GHz

Tested by: Michael Westman (Printed) _____ (Signature)

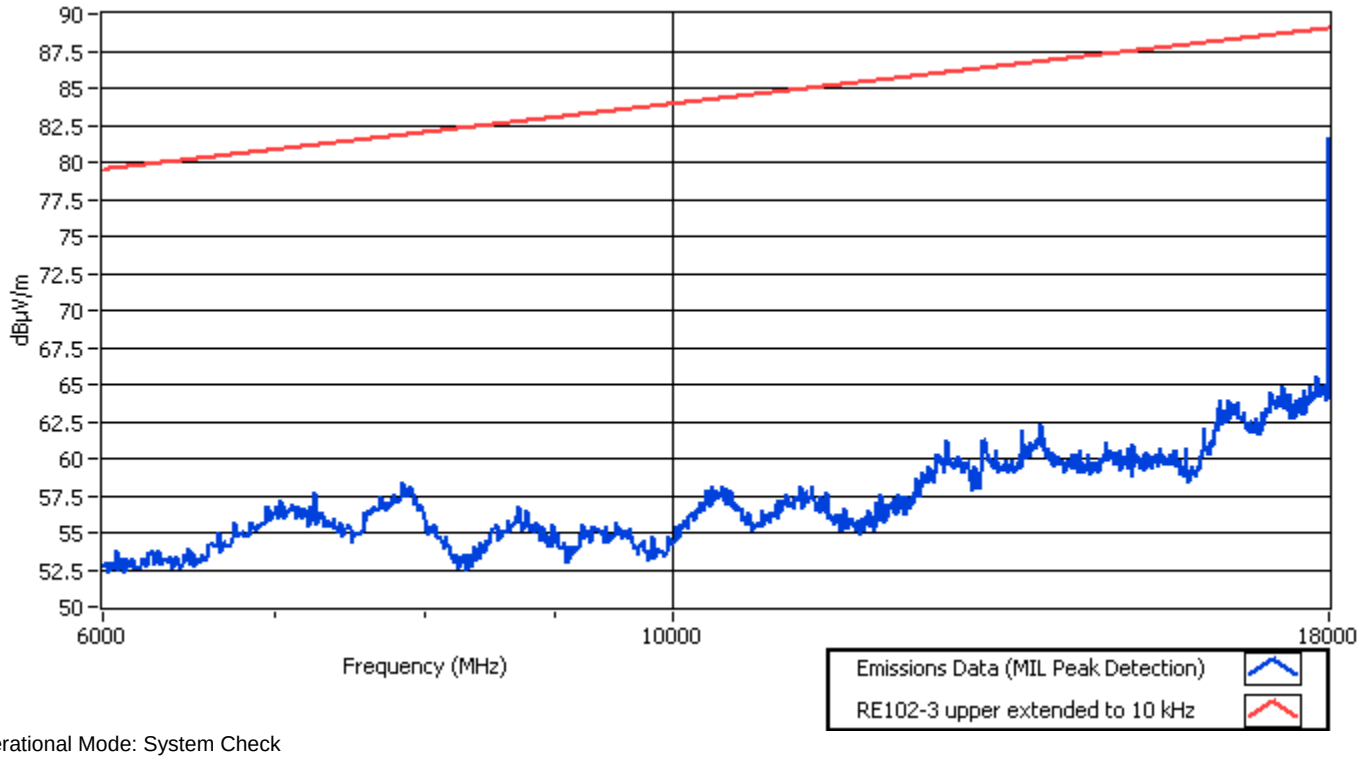
Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top, U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	17 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Plot: 7



Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Notes: System check per Mil Std 461F, RE102, 5.17.3.4.c. At 18 GHz

Tested by: Michael Westman (Printed) _____ (Signature)

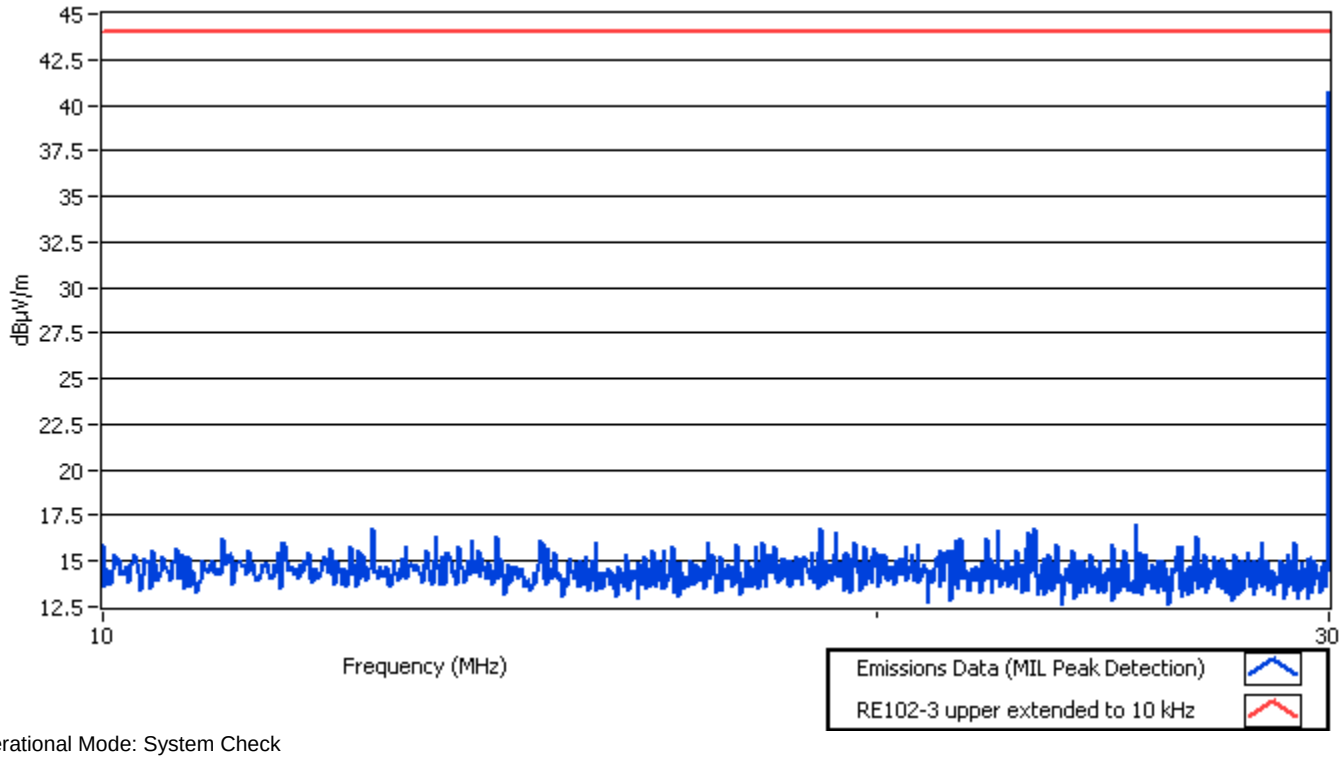
Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top, U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	18 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Plot: 8



Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Notes: System check per Mil Std 461F, RE102, 5.17.3.4.d. At 30 MHz

Tested by: Michael Westman (Printed) _____ (Signature)

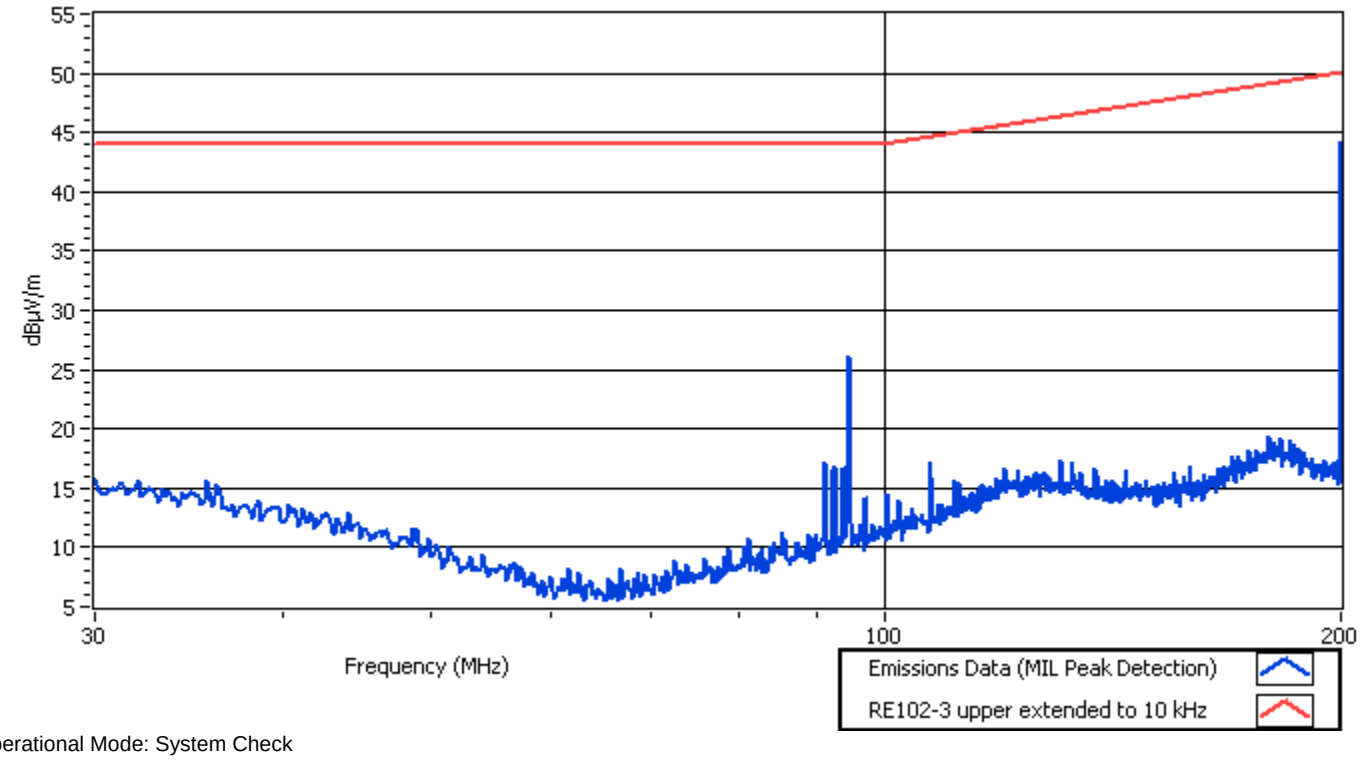
Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top, U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	19 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Plot: 9



Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Notes: System check per Mil Std 461F, RE102, 5.17.3.4.d. At 200 MHz

Tested by: Michael Westman (Printed) _____ (Signature)

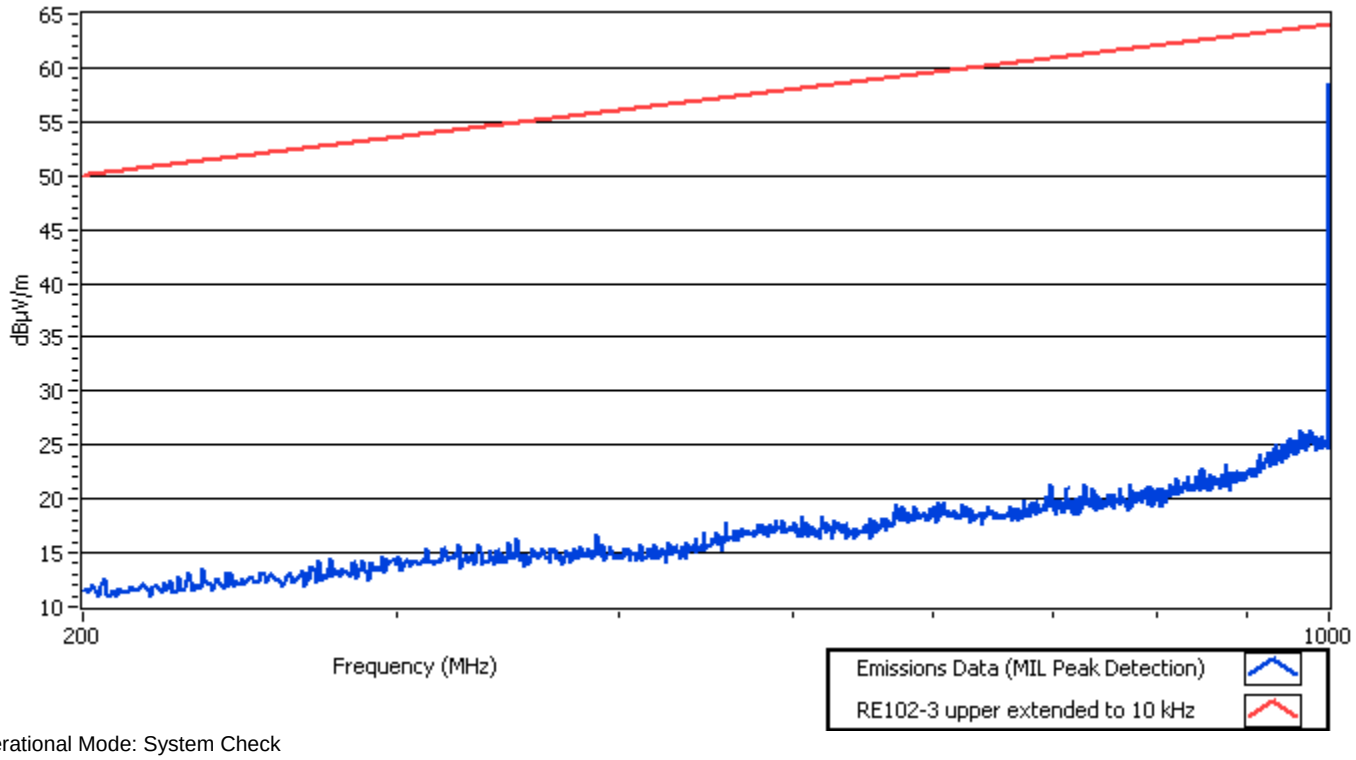
Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	20 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Plot: 10



Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Notes: System check per Mil Std 461F, RE102, 5.17.3.4.d. At 1 GHz

Tested by: Michael Westman (Printed) _____ (Signature)

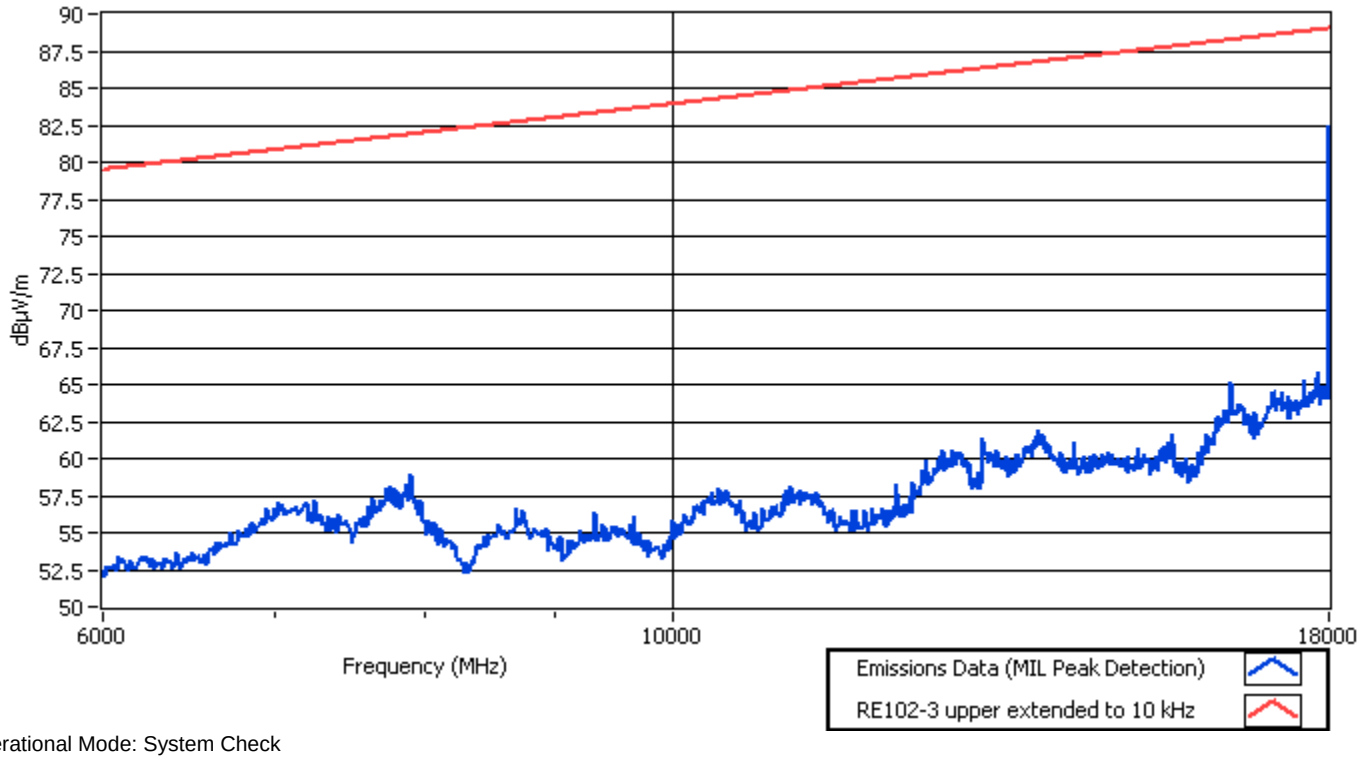
Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L / R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top, U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	21 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Plot: 11



Operational Mode: System Check
Polarity: N/A
EUT Face: N/A
Notes: System check per Mil Std 461F, RE102, 5.17.3.4.d. At 18 GHz

Tested by: Michael Westman (Printed) _____ (Signature)

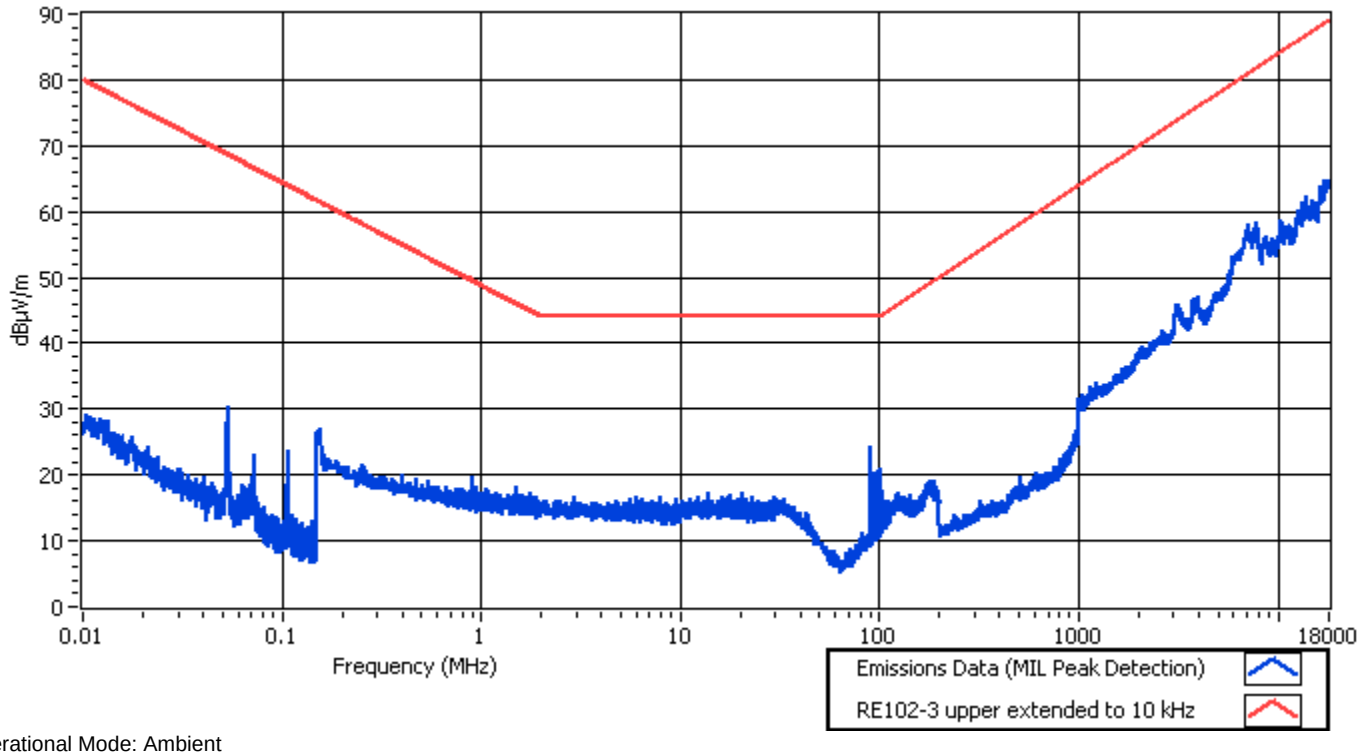
Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L / R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top, U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	22 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Plot: 12



Operational Mode: Ambient
Polarity: Vertical
EUT Face: Front
Notes:

Tested by: Michael Westman (Printed) _____ (Signature)

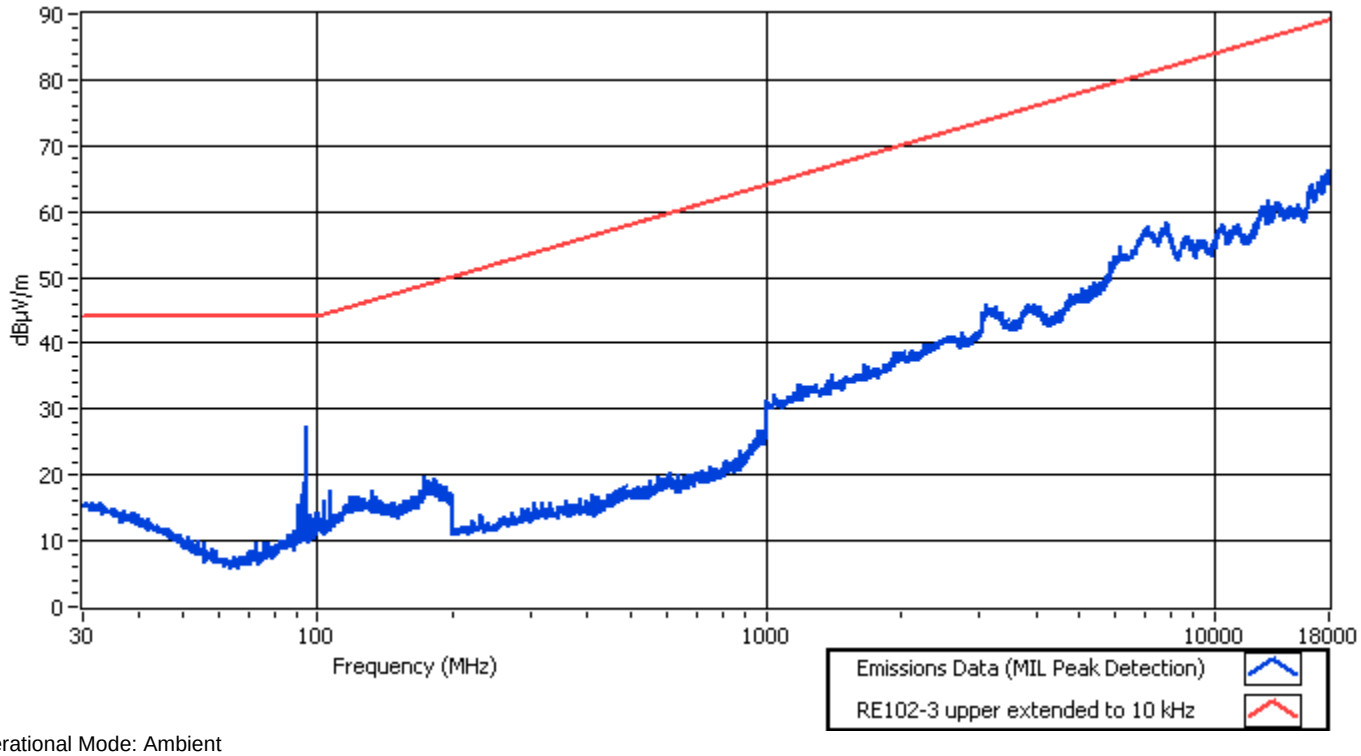
Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

Test Report #:	NC72106774	Test Area:	7	FACE DEFINITION (TOP VIEW)	B / L R / F (Front)
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015	T = Top, U = Under Side	
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	23 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

Plot: 13



Operational Mode: Ambient
Polarity: Horizontal
EUT Face: Front
Notes:

Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

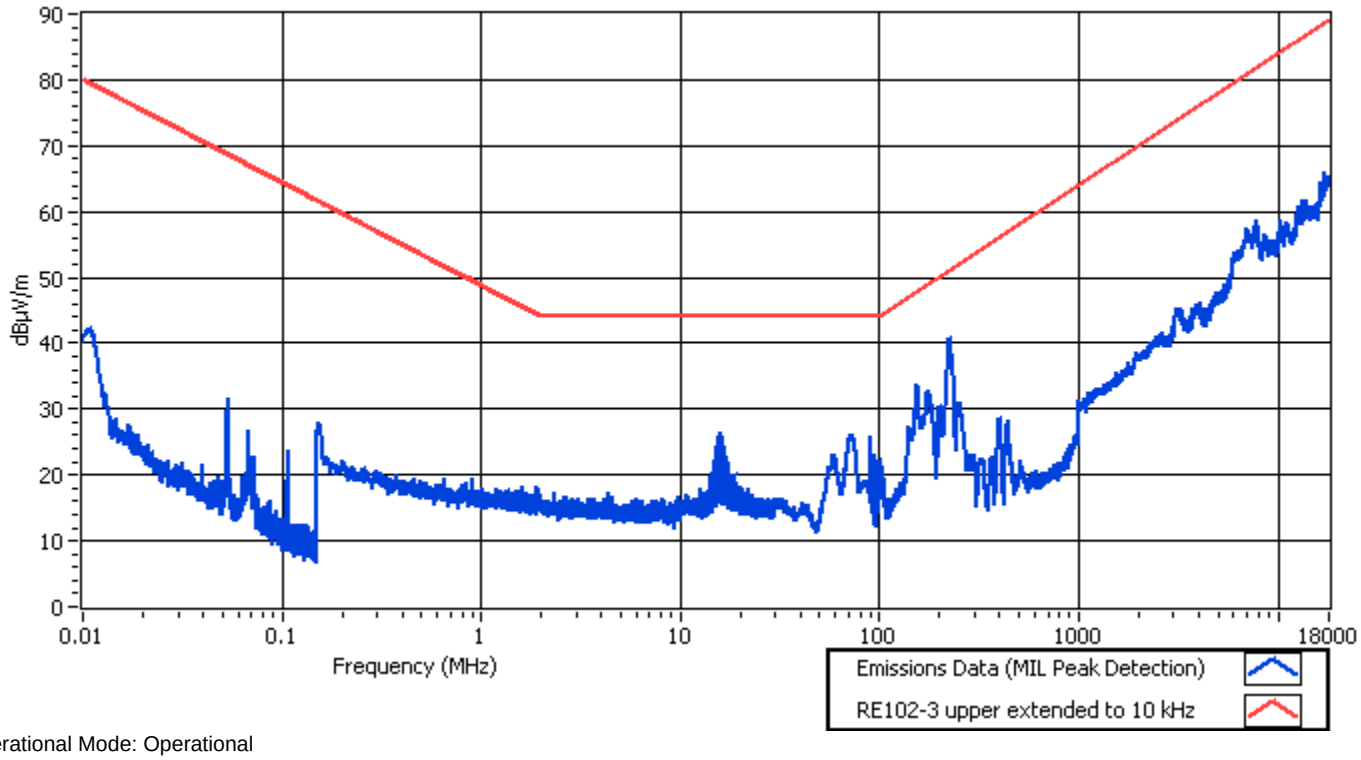
Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	24 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

FACE DEFINITION (TOP VIEW)

T = Top
U = Under Side

B
L R
F (Front)

Plot: 14



Operational Mode: Operational
Polarity: Vertical
EUT Face: Front
Notes:

Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

Radiated Emissions

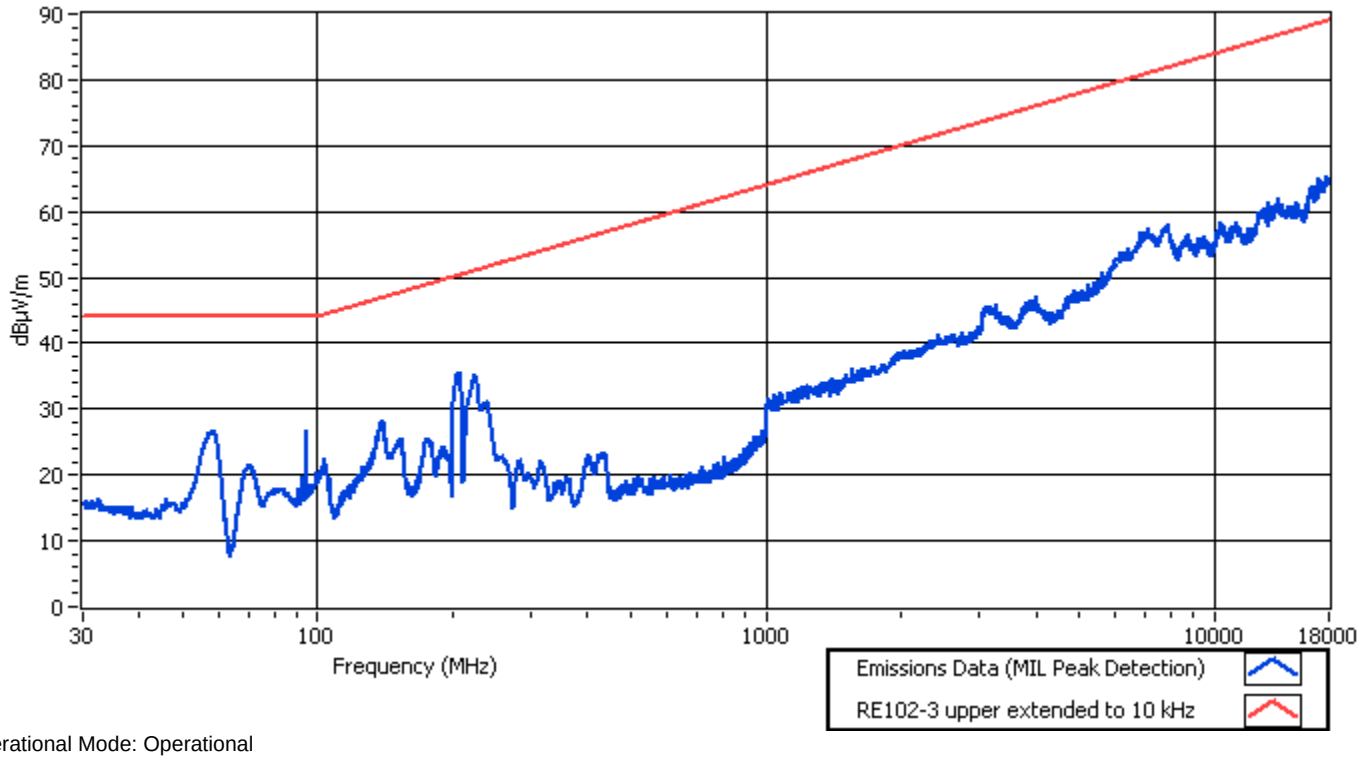
Test Report #:	NC72106774	Test Area:	7		
EUT Model #:	ACMIL1950-4337	Date:	19 August, 2015		
EUT Serial #:	N/A	EUT Power:	115 VAC, 400 Hz	Temperature:	23 °C
Test Method:	Mil Std 461F, RE102			Air Pressure:	96.5 kPa
Customer:	Lind Electronics Design			Relative Humidity:	46 %
EUT Description:	AC Adapter			Page:	25 of 25
Notes:	Tested with internal shield covering transformer area				
Data File Name:	T:\L\Lind Electronics\ACMIL 1950\72106774\Data\EM\RE - with shield\6774-RE102-with shield.EMX				

FACE DEFINITION (TOP VIEW)

T = Top
U = Under Side

B
L R
F (Front)

Plot: 15



Operational Mode: Operational
Polarity: Horizontal
EUT Face: Front
Notes:

Tested by: Michael Westman (Printed) _____ (Signature)

Reviewed by: David T Schaefer (Printed) _____ (Signature)

Mode of Operation Key	
#	Description
1	
2	
3	
4	
5	

RADIATED SUSCEPTIBILITY

Test Report #: NC72106774 Test Area: 7

EUT Model #: ACMIL1950-4337 Date: 26 June, 2015

EUT Serial #: N/A EUT Power: 115 VAC, 400 Hz Temperature: 24 °C

Test Method: Mil Std 461F, RS103 Air Pressure: 98.5 kPa

Customer: Lind Electronics Design Relative Humidity: 46 %

EUT Description: AC Adapter Page: 1 of 1

Notes:

FACE DEFINITION (TOP VIEW)

T = Top
U = Under Side

B
L R
F (Front)

Test Frequency (MHz)	Test Level (V/m)	Modulation Type (See Key)	Field Polarity (H/V)	Antenna Distance (Meters)	Dwell Time (Sec.)	Step Size Freq. % Increase	EUT Face	Complies Yes	Complies No	Remarks
2	20	2	V	.5	3	1	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
30	↓	↓	↓	↓	↓	↓	↓	↓		

Tested by: Michael Westman
Printed

Signature

Reviewed by: David T Schaefer
Printed

Signature

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3					
4					
5					

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RADIATED SUSCEPTIBILITY

Test Report #: NC72106774 Test Area: 7

EUT Model #: ACMIL1950-4337 Date: 23 June, 2015

EUT Serial #: N/A EUT Power: 115 VAC, 400 Hz

Test Method: Mil Std 461F, RS103

Customer: Lind Electronics Design

EUT Description: AC Adapter

Notes:

FACE DEFINITION (TOP VIEW)

T = Top
U = Under Side

B
L R
F (Front)

Temperature: 24 °C

Air Pressure: 98.6 kPa

Relative Humidity: 44 %

Test Frequency (MHz)	Test Level (V/m)	Modulation Type (See Key)	Field Polarity (H/V)	Antenna Distance (Meters)	Dwell Time (Sec.)	Step Size Freq. % Increase	EUT Face	Complies Yes	Complies No	Remarks
30	20	2	V	1	3	.5	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
200	↓	↓	↓	↓	↓	↓	↓	↓		
30	20	2	H	1	3	.5	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
200	↓	↓	↓	↓	↓	↓	↓	↓		

Tested by: Michael Westman
Printed

Signature

Reviewed by: David T Schaefer
Printed

Signature

Modulation Key					
#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3					
4					
5					

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RADIATED SUSCEPTIBILITY

Test Report #: NC72106774 Test Area: 7

EUT Model #: ACMIL1950-4337 Date: 24 June, 2015

EUT Serial #: N/A EUT Power: 115 VAC, 400 Hz Temperature: 24 °C

Test Method: Mil Std 461F, RS103 Air Pressure: 98.6 kPa

Customer: Lind Electronics Design Relative Humidity: 44 %

EUT Description: AC Adapter Page: 1 of 2

Notes:

FACE DEFINITION (TOP VIEW)

T = Top
U = Under Side

B
L R
F (Front)

Test Frequency (MHz)	Test Level (V/m)	Modulation Type (See Key)	Field Polarity (H/V)	Antenna Distance (Meters)	Dwell Time (Sec.)	Step Size Freq. % Increase	EUT Face	Complies Yes	Complies No	Remarks
200	20	2	V	1	3	.5	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
1000	↓	↓	↓	↓	↓	↓	↓	↓		
200	20	2	H	1	3	.5	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
1000	↓	↓	↓	↓	↓	↓	↓	↓		
1000	60	2	H	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
2000	↓	↓	↓	↓	↓	↓	↓	↓		
1000	60	2	V	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
2000	↓	↓	↓	↓	↓	↓	↓	↓		
2000	60	2	H	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
4000	↓	↓	↓	↓	↓	↓	↓	↓		
2000	60	2	V	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
4000	↓	↓	↓	↓	↓	↓	↓	↓		
4000	60	2	V	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
8000	↓	↓	↓	↓	↓	↓	↓	↓		

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3					
4					
5					

Tested by: Michael Westman (Printed) (Signature)

Reviewed by: David T Schaefer (Printed) (Signature)

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RADIATED SUSCEPTIBILITY

Test Report #: NC72106774 Test Area: 7

EUT Model #: ACMIL1950-4337 Date: 24 June, 2015

EUT Serial #: N/A EUT Power: 115 VAC, 400 Hz Temperature: 24 °C

Test Method: Mil Std 461F, RS103 Air Pressure: 98.6 kPa

Customer: Lind Electronics Design Relative Humidity: 44 %

EUT Description: AC Adapter Page: 2 of 2

Notes:

FACE DEFINITION (TOP VIEW)

T = Top
U = Under Side

B
L R
F (Front)

Test Frequency (MHz)	Test Level (V/m)	Modulation Type (See Key)	Field Polarity (H/V)	Antenna Distance (Meters)	Dwell Time (Sec.)	Step Size Freq. % Increase	EUT Face	Complies Yes	Complies No	Remarks
4000	60	2	H	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
8000	↓	↓	↓	↓	↓	↓	↓	↓		

Tested by: Michael Westman
Printed

Signature

Reviewed by: David T Schaefer
Printed

Signature

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3					
4					
5					

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RADIATED SUSCEPTIBILITY

Test Report #: NC72106774 Test Area: 7

EUT Model #: ACMIL1950-4337 Date: 25 June, 2015

EUT Serial #: N/A EUT Power: 115 VAC, 400 Hz Temperature: 24 °C

Test Method: Mil Std 461F, RS103 Air Pressure: 98.3 kPa

Customer: Lind Electronics Design Relative Humidity: 44 %

EUT Description: AC Adapter Page: 1 of 2

Notes:

FACE DEFINITION (TOP VIEW)

T = Top
U = Under Side

B
L R
F (Front)

Test Frequency (MHz)	Test Level (V/m)	Modulation Type (See Key)	Field Polarity (H/V)	Antenna Distance (Meters)	Dwell Time (Sec.)	Step Size Freq. % Increase	EUT Face	Complies Yes	Complies No	Remarks
8000	60	2	V	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
12400	↓	↓	↓	↓	↓	↓	↓	↓		
8000	60	2	H	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
12400	↓	↓	↓	↓	↓	↓	↓	↓		
12400	60	2	V	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
18000	↓	↓	↓	↓	↓	↓	↓	↓		
12400	60	2	H	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
18000	↓	↓	↓	↓	↓	↓	↓	↓		
18000	60	2	V	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
26500	↓	↓	↓	↓	↓	↓	↓	↓		
18000	60	2	H	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
26500	↓	↓	↓	↓	↓	↓	↓	↓		
26500	60	2	V	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
40000	↓	↓	↓	↓	↓	↓	↓	↓		

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3					
4					
5					

Tested by: Michael Westman (Printed) (Signature)

Reviewed by: David T Schaefer (Printed) (Signature)

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RADIATED SUSCEPTIBILITY

Test Report #: NC72106774 Test Area: 7

EUT Model #: ACMIL1950-4337 Date: 25 June, 2015

EUT Serial #: N/A EUT Power: 115 VAC, 400 Hz Temperature: 24 °C

Test Method: Mil Std 461F, RS103 Air Pressure: 98.3 kPa

Customer: Lind Electronics Design Relative Humidity: 44 %

EUT Description: AC Adapter Page: 2 of 2

Notes:

FACE DEFINITION (TOP VIEW)

T = Top
U = Under Side

B
L R
F (Front)

Test Frequency (MHz)	Test Level (V/m)	Modulation Type (See Key)	Field Polarity (H/V)	Antenna Distance (Meters)	Dwell Time (Sec.)	Step Size Freq. % Increase	EUT Face	Complies Yes	Complies No	Remarks
26500	60	2	H	1	3	.25	F	✓		
↓	↓	↓	↓	↓	↓	↓	↓	↓		
40000	↓	↓	↓	↓	↓	↓	↓	↓		

Tested by: Michael Westman
Printed

Signature

Reviewed by: David T Schaefer
Printed

Signature

Modulation Key

#	Type	Freq.	Shape	Duty	Depth
1	CW	None			
2	PM	1 kHz	Square	50%	100%
3					
4					
5					

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APPENDIX D

EMC TEST PLAN AND CONSTRUCTIONAL DATA FORM

EMC Test Plan and Constructional Data Form

PLEASE COMPLETE THIS DOCUMENT IN FULL, ENTERING N/A IF THE FIELD IS NOT APPLICABLE. IF TESTING RESULTS IN MODIFICATIONS TO THE EQUIPMENT, PLEASE SUBMIT A REVISED TP/CDF INDICATING THOSE MODIFICATIONS.
NOTE: This information will be input into your test report as shown below. Press the F1 key at any time to get HELP for the current field selected.

Company: Lind Electronics
Address: 6414 Cambridge street
Minneapolis, MN
55426
Contact: Jay Aigner Position: Engineer
Phone: (952) 927-6303 Fax: (952) 927-7740
E-mail Address: jaigner@lindelectronics.com

General Equipment Description -- ***NOTE: This information will be input into your test report as shown below.***

EUT Description: Lind AC-DC Converter
EUT Name: Military AC to DC family
Model No.: ACMILXXYY-ZZZZ Serial No.: NA
Product Options: 100-240vac input
Configurations to be tested: ACMIL1950-ZZZZ

Equipment Modification (*If applicable, indicate modifications since EUT was last tested. If modifications are made during this testing, submit revised TP/CDF after testing is complete.)*

Modifications since last test: None
Modifications made during test:

Test Objective(s): ***Please indicate the tests to be performed, entering the applicable standard(s) where noted.***

- ☐ EMC Directive 2004/108/EC (EMC) Std: ____
- ☐ Machinery Directive 89/392/EEC (EMC) Std: ____
- ☐ Medical Device Directive 93/42/EEC (EMC) Std: ____
- ☐ Vehicle Directive: ☐ 2001/3/EC (EMC) ☐ 2004/104/EC (EMC)
  ☐ Other Vehicle Std: ____
- ☐ FDA Reviewers Guidance for Premarket Notification Submissions (EMC)

- ☐ FCC: Class ☐ A ☐ B Part ____
- ☐ VCCI: Class ☐ A ☐ B
- ☐ BSMI: Class ☐ A ☐ B (Separate Report)
- ☐ Canada: Class ☐ A ☐ B
- ☐ Australia: Class ☐ A ☐ B
- ☒ Other: MIL STD 461 see attached email or quote for specific testing

Third Party Certification, if applicable (*Signature on Page 6 Required)

- ☐ Attestation of Conformity (AoC)*
- ☐ Certificate of Conformity (CoC)*
- ☐ EMC Certification (used with Octagon Mark)*
- ☐ Compliance Document*
- Protection Class (N/A for vehicles) ☐ Class I ☐ Class II ☐ Class III
  (Press **F1** when field is selected to show additional information on Protection Class.)
- ☐ FCC / TCB Certification
- ☐ E-Mark Certification
- ☐ Industry Canada / FCB Certification
- ☐ Taiwan Certification

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Attendance

Test will be: ☐ Attended by the customer ☒ Unattended by the customer

Failure - *Complete this section if testing will not be attended by the customer.*

If a failure occurs, TÜV America should:

☒ Call contact listed above, if not available then stop testing. (After hrs phone): 952-927-6303

☐ Continue testing to complete test series.

☐ Continue testing to define corrective action.

☐ Stop testing.

EUT Specifications and Requirements

Length: 7.5" Width: 3.2" Height: 1.8" Weight: 32 oz.

Power Requirements

Regulations require testing to be performed at typical power ratings in the countries of intended use. (i.e., European power is typically 230 VAC 50 Hz or 400 VAC 50 Hz, single and three phase, respectively)

Voltage: 100 to 240 vac (If battery powered, make sure battery life is sufficient to complete testing.)

# of Phases: 1

Current (Amps/phase(max)): 15a Current (Amps/phase(nominal)): 8a

Other sources supplied by customer

Other Special Requirements

Resistive loads used and supplied by customer

Typical Installation and/or Operating Environment

(ie. Hospital, Small Business, Industrial/Factory, etc.)

Industrial

EUT Power Cable

☒ Permanent OR ☒ Removable Length (in meters): 2

☐ Shielded OR ☒ Unshielded

☐ Not Applicable

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EUT Interface Ports and Cables

Type	Analog	Digital	During Test: Active	During Test: Passive	Qty	Shielding: Yes	Shielding: No	Shielding: Type	Termination	Connector Type	Port Termination	Length tested (in meters)	Removable	Permanent
EXAMPLE: *RS232*	☐	☒	☒	☐	*2*	☒	☐	*Foil over braid*	*Coaxial*	*Metallized 9-pin D-Sub*	*Characteristic Impedance*	*6*	☒	☐
2.1mm output or hardwired	☒	☐	☒	☐		☐	☒			2.5mm		2	☒	☐
AC C15 or hardwired	☒	☐	☒	☐		☐	☒			IEC14		2	☒	☐
	☐	☐	☐	☐		☐	☐						☐	☐
	☐	☐	☐	☐		☐	☐						☐	☐
	☐	☐	☐	☐		☐	☐						☐	☐
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	☐	☐	☐	☐		☐	☐						☐	☐
	☐	☐	☐	☐		☐	☐						☐	☐
	☐	☐	☐	☐		☐	☐						☐	☐

EMC Test Plan and Constructional Data Form

EUT Software.

Revision Level:

Description:

Equipment Under Test (EUT) Operating Modes to be Tested -- list the operating modes to be used during test. It is recommended the equipment be tested while operating in a typical operation mode. FCC testing of personal computers and/or peripherals requires that a simple program generate a complete line of upper case H's. Provide a general description of all software, firmware, and PLD algorithms used in the equipment. List all code modules as described above, with the revision level used during testing. Consult with your TÜV Product Service Representative if additional assistance is required.

1. ACMIL1950-ZZZZ
   1950 is 19v at 5a and ZZZZ is customer and model specific.
   ie. a model change will be for hard wired or pluggable inputs and for different output cable terminations.
2.
3.

Equipment Under Test (EUT) System Components -- List and describe all components which are part of the EUT. For FCC & Taiwan testing a minimum configuration is required. (ie. Mouse, Printer, Monitor, External Disk Drive, Motherboard, etc)

Description	Model #	Serial #	FCC ID #
19v@5a output	ACMIL1950-ZZZZ	na	

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Support Equipment -- List and describe all support equipment which is not part of the EUT. (i.e. peripherals, simulators, etc) This information is required for FCC & Taiwan testing.

Description	*Model #*	*Serial #*	*FCC ID #*
Resistive load			

Oscillator Frequencies

Manufacturer	*Frequency*	*Derived Frequency*	*Component # / Location*	*Description of Use*

Power Supply

Manufacturer	*Model #*	*Serial #*	*Type*
			☐ Switched-mode: (Frequency) _____ ☐ Linear ☐ Other: _____
			☐ Switched-mode: (Frequency) _____ ☐ Linear ☐ Other: _____

Power Line Filters

Manufacturer	*Model #*	*Location in EUT*

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Critical EMI Components (Capacitors, ferrites, etc.)

Description	*Manufacturer*	*Part # or Value*	*Qty*	*Component # / Location*
power supply	XP	ECM100US18	1	

EMC Critical Detail -- Describe other EMC Design details used to reduce high frequency noise.

All components are inside a metal extrusion with metal end caps fastened with screws.

(PLEASE INSERT "**ELECTRONIC SIGNATURE**" BELOW IF POSSIBLE)

Authorization Signatures (Signature Required for Certifications checked on pg 1)

Jay Aigner	5/20/15
Customer authorization to perform tests according to this test plan.	Date
Jay Aigner	5/20/15
Test Plan/CDF Prepared By (please print)	Date