TIMCO ENGINEERING INC.
849 NW State Road 45
Newberry, Florida 32669
http://www.timcoengr.com
888.472.2424 F 352.472.2030 email: tei@timcoengr.com

A2LA ACCREDITED
A2LA CERT # 0955-01

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FCC ID: AMWUB335

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CIRCUIT DESCRIPTION

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FCC ID: AMWUB335

TEST EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3-Meter OATS	TEI	N/A	N/A	Listed 1/13/03	1/12/06
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/27/04	3/26/07
Tan Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 12/7/05	12/7/07
Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 12/7/05	12/7/07
Tan Tower Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 12/8/05	12/8/07
Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CAL 12/8/05	12/8/07
Blue Tower Spectrum Analyzer	HP	8568B	2928A04729 2848A18049	CAL 4/13/05	4/13/07
Blue Tower RF Preselector	HP	85685A	2926A00983	CAL 9/5/05	9/5/07
Blue Tower Quasi-Peak Adapter	HP	85650A	2811A01279	CAL 4/13/05	4/13/07
Silver Tower Spectrum Analyzer	HP	8566B Opt 462	3552A22064 3638A08608	CAL 12/8/04	12/8/06
Silver Tower RF Preselector	HP	85685A	2620A00294	CAL 4/27/04	4/27/06
Open-Frame Tower Preamplifier	HP	8449B	3008A01075	CAL 8/8/05	8/8/07
Biconnical Antenna	Eaton	94455-1	1096	CAL 8/17/04	8/17/06
Biconnical Antenna	Eaton	94455-1	1057	CAL 3/18/03	3/18/05
Log-Periodic Antenna	Electro-Metrics	LPA-25	1122	CAL 8/26/04	8/26/06

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TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2003 using a HEWLETT PACKARD spectrum analyzer with a preselector. The bandwidth of the spectrum analyzer was 100 kHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz. The ambient temperature of the UUT was 80oC with a humidity of 76%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz)	METER READING + ACF = FS
33	20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The unit under test was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

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APPLICANT: UNIDEN AMERICA CORPORATION

FCC ID: AMWUB335

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.109

REQUIREMENTS:

30 to 80 MHz:	40.0 dBuV/M @ 3 METERS
88 to 216 MHz:	43.5 dBuV/M
216 to 960 MHz:	46.0 dBuV/M
ABOVE 960 MHz:	54.0 dBuV/M

TEST RESULTS: A search was made of the spectrum from 30 to 1000 MHz and the measurements indicate that the unit DOES meet the FCC requirements.

TEST DATA:

Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
25.0	31.36	19.0	H	0.41	13.34	32.75	7.25
25.0	32.42	24.6	V	0.41	11.48	36.49	3.51
25.0	46.23	22.6	H	0.48	11.20	34.28	5.72
25.0	49.72	25.3	V	0.50	11.04	36.84	3.16
25.0	61.34	17.1	H	0.54	10.86	28.50	11.50
25.0	69.94	21.6	H	0.57	8.52	30.69	9.31
25.0	70.66	20.4	V	0.57	7.41	28.38	11.62
25.0	97.80	16.9	V	0.64	11.20	28.74	14.76
25.0	100.04	24.2	H	0.65	11.50	36.35	7.15
25.0	115.30	15.9	H	0.67	15.10	31.67	11.83
25.0	128.14	15.5	H	0.68	13.14	29.32	14.18
25.0	136.74	20.4	H	0.69	13.10	34.19	9.31
25.0	150.22	15.2	H	0.70	14.38	30.28	13.22
54.0	32.52	24.1	V	0.41	11.44	35.95	4.05
54.0	33.56	19.4	H	0.42	12.59	32.41	7.59
54.0	36.86	15.8	V	0.43	10.20	26.43	13.57
54.0	42.32	18.2	H	0.46	11.31	29.97	10.03
54.0	45.70	19.6	V	0.48	10.24	30.32	9.68
54.0	45.74	22.1	H	0.48	11.20	33.78	6.22
54.0	64.82	17.1	V	0.55	9.48	27.13	12.87
54.0	66.38	27.1	H	0.55	9.73	37.38	2.62
54.0	71.78	18.2	V	0.57	7.25	26.02	13.98
54.0	81.56	17.8	V	0.60	7.04	25.44	14.56
54.0	97.40	15.6	V	0.64	11.13	27.37	16.13

APPLICANT: UNIDEN AMERICA CORPORATION

FCC ID: AMWUB335

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.109

TEST DATA CONTD.

Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
54.0	98.92	20.8	H	0.65	11.05	32.50	11.00
54.0	121.28	16.2	H	0.67	13.50	30.37	13.13
72.5	33.10	18.3	H	0.42	12.75	31.47	8.53
72.5	35.76	17.6	V	0.43	10.38	28.41	11.59
72.5	48.38	26.1	H	0.49	11.20	37.79	2.21
72.5	48.86	25.5	V	0.49	10.87	36.86	3.14
72.5	55.94	19.4	H	0.52	11.18	31.10	8.90
72.5	62.52	15.1	V	0.54	10.44	26.08	13.92
72.5	71.38	16.9	H	0.57	8.09	25.56	14.44
72.5	72.30	19.1	V	0.57	7.18	26.85	13.15
72.5	99.18	19.2	H	0.65	11.16	31.01	12.49
72.5	101.34	15.4	V	0.65	11.65	27.70	15.80
107.5	33.58	15.3	H	0.42	12.58	28.30	11.70
107.5	44.62	17.5	H	0.47	11.22	29.19	10.81
107.5	44.78	15.5	V	0.47	10.08	26.05	13.95
107.5	47.72	22.3	H	0.49	11.20	33.99	6.01
107.5	60.44	25.6	H	0.53	11.02	37.15	2.85
107.5	64.60	19.0	V	0.55	9.57	29.12	10.88
107.5	67.50	18.0	H	0.56	9.35	27.91	12.09
107.5	67.66	18.3	V	0.56	8.39	27.25	12.75
107.5	101.28	19.0	V	0.65	11.65	31.30	12.20
107.5	101.36	16.0	H	0.65	11.53	28.18	15.32
107.5	106.16	15.4	H	0.66	11.83	27.89	15.61
197.5	48.52	20.1	V	0.49	10.80	31.39	8.61
197.5	59.48	15.1	H	0.53	11.11	26.74	13.26
197.5	60.92	19.6	V	0.54	11.11	31.25	8.75
197.5	66.40	18.1	V	0.55	8.87	27.52	12.48
197.5	67.34	21.0	H	0.56	9.40	30.96	9.04
197.5	98.26	18.7	H	0.65	10.77	30.12	13.38
197.5	99.42	18.8	V	0.65	11.50	30.95	12.55
197.5	105.24	17.3	V	0.66	11.85	29.81	13.69
369.9	369.92	14.3	V	1.17	14.80	30.27	15.73
370.0	369.95	17.2	V	1.17	14.80	33.17	12.83
370.0	370.00	15.1	V	1.17	14.80	31.07	14.93
370.0	370.00	15.4	V	1.17	14.80	31.37	14.63
370.0	370.00	17.2	V	1.17	14.80	33.17	12.83
511.9	40.52	17.6	V	0.45	9.74	27.79	12.21

APPLICANT: UNIDEN AMERICA CORPORATION

FCC ID: AMWUB335

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.109

TEST DATA CONTD.

Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
511.9	46.48	17.9	H	0.48	11.20	29.58	10.42
511.9	52.48	18.7	V	0.51	11.45	30.66	9.34
511.9	57.42	21.1	V	0.52	11.65	33.27	6.73
511.9	64.90	21.2	H	0.55	10.22	31.97	8.03
511.9	66.10	19.7	V	0.55	8.98	29.23	10.77
511.9	67.12	24.2	H	0.56	9.48	34.24	5.76
511.9	98.64	15.1	V	0.65	11.36	27.11	16.39
511.9	101.98	20.1	H	0.65	11.54	32.29	11.21
511.9	105.52	15.8	H	0.66	11.70	28.16	15.34
764.0	51.95	16.4	H	0.51	11.20	28.11	11.89
764.0	63.44	20.7	H	0.54	10.48	31.72	8.28
764.0	65.60	15.5	V	0.55	9.17	25.22	14.78
857.2	53.86	17.7	H	0.51	11.20	29.41	10.59
857.2	66.64	16.0	H	0.56	9.64	26.20	13.80
857.2	101.60	15.6	V	0.65	11.66	27.91	15.59
954.9	49.50	15.3	H	0.50	11.20	27.00	13.00
954.9	68.30	17.6	H	0.56	9.08	27.24	12.76
954.9	103.36	15.6	V	0.65	11.73	27.98	15.52
1,299.9	44.38	17.8	V	0.47	10.05	28.32	11.68
1,299.9	48.24	15.8	H	0.49	11.20	27.49	12.51
1,299.9	52.98	18.9	V	0.51	11.52	30.93	9.07
1,299.9	68.78	16.8	V	0.56	7.96	25.32	14.68
1,299.9	69.22	17.3	H	0.56	8.77	26.63	13.37
1,299.9	89.54	15.2	V	0.62	9.34	25.16	18.34
1,299.9	99.28	16.9	H	0.65	11.20	28.75	14.75

TEST PROCEDURE: ANSI STANDARD C63.4-2003. The bandwidth of spectrum analyzer was 100 kHz with an appropriate sweep speed. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The receiver was put into the coherent mode by placing an antenna driven by a signal generator off site. The UUT was tested in 3 orthogonal planes.

PERFORMED BY: RICHARD BLOCK **DATE**: 1/11/2006

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APPLICANT: UNIDEN AMERICA CORPORATION

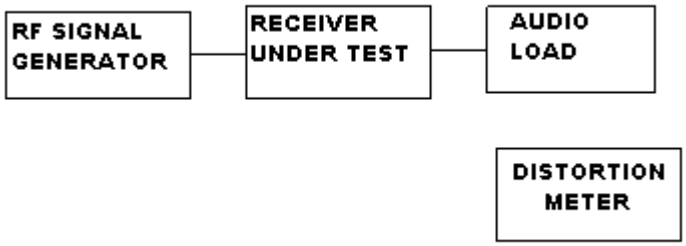
FCC ID: AMWUB335

NAME OF TEST: 38dB REJECTION RATIO

RULES PART NUMBER: 15.121(b)

REQUIREMENTS: 38dB REJECTION RATIO TO SENSITIVITY OF THE RECEIVER.

TEST SET-UP



TEST PROCEDURE: The reference sensitivity was measured in accordance with TIA/EIA-603;

a. Equipment connected as illustrated
b. A standard signal was applied to the receiver input terminals.
c. Receiver output audio output was adjusted for rated output.
d. The RF Signal generator was adjusted to the lowest level to produce a 12dB SINAD without the audio output dropping more than 3dB. Make note of sensitivity level.
e. This was done across the different bands to establish a reference level. The reference taken was the worse case sensitivity.
f. The output of the signal generator was then adjusted to a level of 60dB above the reference level at a frequency of 824.5MHz.
g. With the level set 60dB above the level measured in step e.
h. Set squelch on receiver to threshold, the signal level required to open the squelch must be lower than the level measured in step d.
i. Cause the receiver to scan or step-it through its complete range of frequencies.
j. If receiver stops or unsquelches on any frequency, record the frequency and then adjust the level until a 12dB SINAD is produced. This level must be greater than 38dB above the level in step e.
k. Repeat steps f through j for frequencies 836.0, 848.5, 869.1, 881.0, & 893.5MHz.

TEST RESULTS: The UUT meets the 38dB REJECTION RATIO.

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A2LA ACCREDITED
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APPLICANT: UNIDEN AMERICA CORPORATION

FCC ID: AMWUB335

NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE

RULES PART NO.: 15.207

REQUIREMENTS:

	QUASI-PEAK	**AVERAGE**
.15 – 0.5 MHz	66-56 dBuV	56-46 dBuV
0.5 – 5.0	56	46
5.0 – 30.	60	50

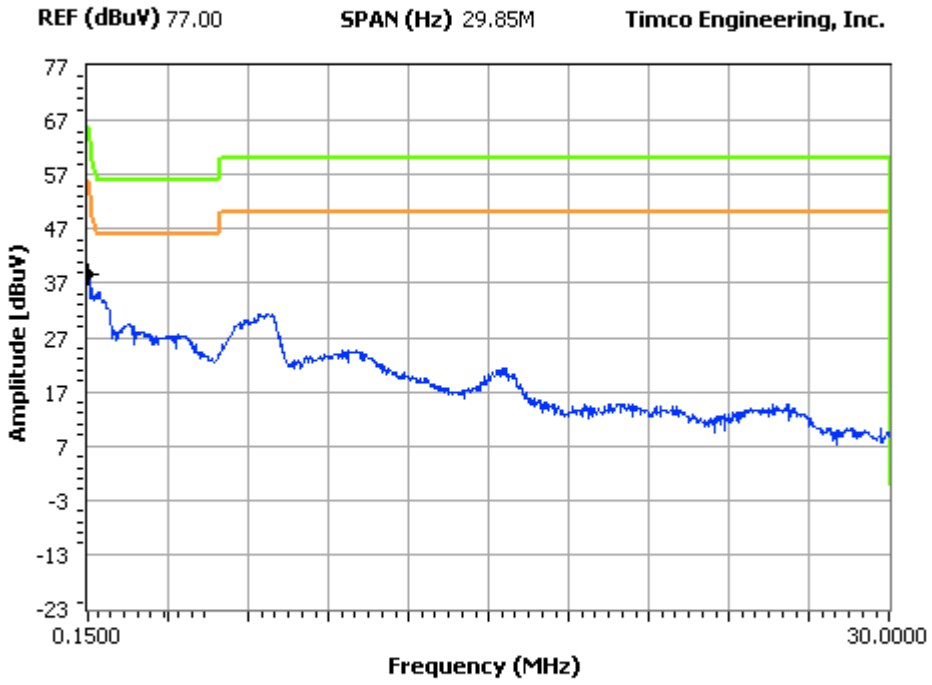
TEST PROCEDURE: ANSI STANDARD C63.4-2003. The spectrum was scanned from .15 to 30 MHz.

THE ATTACHED GRAPHS REPRESENT THE EMISSIONS READ FOR POWERLINE CONDUCTED FOR THIS DEVICE.

TEST RESULTS: Both lines were observed. The measurements indicate that the unit DOES appear to meet the FCC requirements for this class of equipment.

PERFORMED BY: RICHARD BLOCK **DATE:** 1/11/2006

NOTES:
UNIDEN AMERICA CORP
JOB: 2570AUT5
POWER LINE CONDUCTED PLOT -- LINE 1
FCC 15.107 Mask Class B



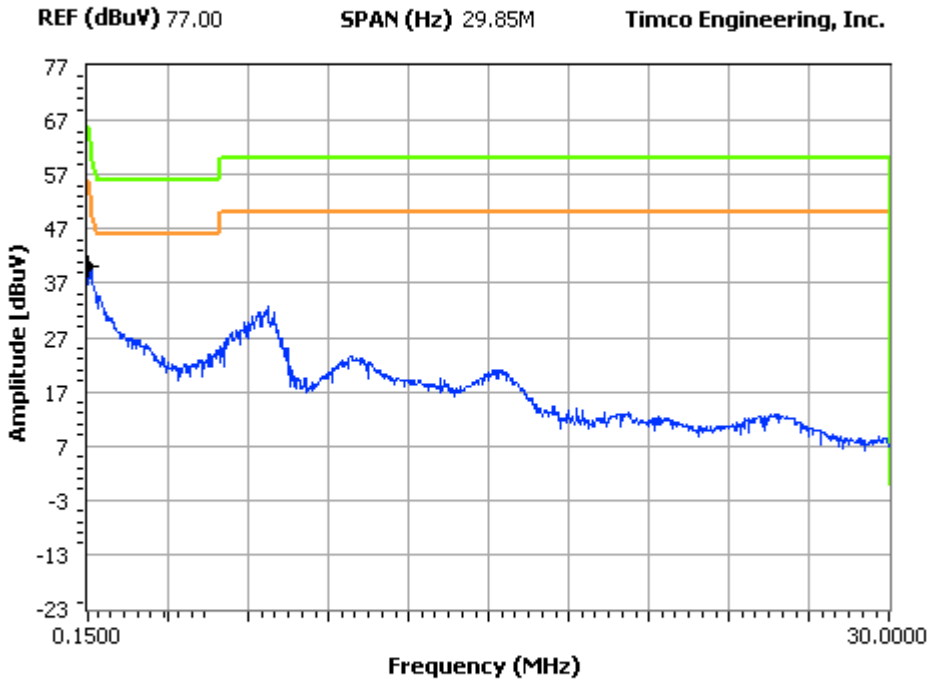
RBW	VBW	ST (sec)
10 kHz	10 kHz	2

Center Frequency (Hz) 15.075M

Marker Delta (Hz) 0.00

Peak	0.150	38.70
MKR2	0.000	0.00
MKR3	0.000	0.00
HWMK	23.076	6.27

NOTES:
UNIDEN AMERICA CORP
JOB: 2570AUT5
POWER LINE CONDUCTED PLOT -- LINE 2
FCC 15.107 Mask Class B



RBW	VBW	ST (sec)
10 kHz	10 kHz	2

Center Frequency (Hz) 15.075M

Marker Delta (Hz) 0.00

Peak	0.150	40.20
MKR2	0.000	0.00
MKR3	0.000	0.00
HWMK	23.076	6.27

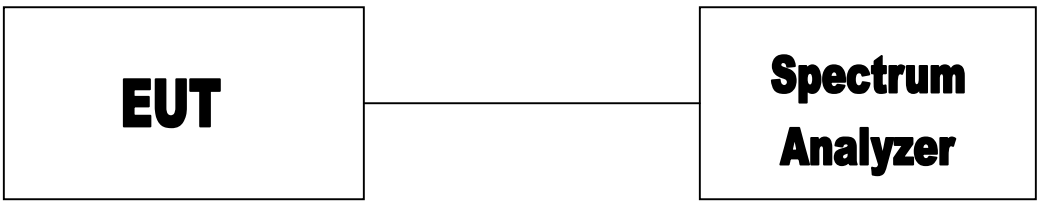
RECEIVER ANTENNA POWER SPURIOUS/HARMONIC CONDUCTED EMISSIONS: 15.111(a)

Limits:

Receivers that operate (tune) in the frequency range 30 to 960 MHz and CB receivers that provide terminals for the connection of an external antenna may be tested to demonstrate compliance with the provisions of paragraph 15.109 with the antenna terminals shielded and terminated with a resistive termination equal to the impedance specified for the antenna, provided these receivers also comply with the following: - ***With the receiver antenna terminal connected to a resistive termination equal to the impedance specified or employed for the antenna, the power at the antenna terminal at any frequency within the range from 30 MHz to the 5th harmonic of the highest frequency shall not exceed 2.0 nanowatts (or 57 dBm @ 50 0hms).***

TEST ARRANGEMENT:

The frequency spectrum was investigated from the lowest frequency signal generated or used in the device up to the 5th harmonic of the highest frequency or 40 GHz, which ever is lower.



All measurements resulted in readings less than – 80 dBm or less than .01 nanoWatts.