



Nemko Test Report: 14370RUS1

Applicant: Kemp-Meek Mfg., Inc.
101 Park Central
Mineola, TX 75773
USA

**Equipment Under Test:
(E.U.T.)** NC400

In Accordance With: **FCC Part 15, Subpart C, 15.247**
Frequency Hopping Transmitters

Tested By: Nemko USA Inc.
802 N. Kealy
Lewisville, Texas 75057-3136

TESTED BY:

David Light, Senior Wireless Engineer

DATE: 15 July, 2008

APPROVED BY:

Mike Cantwell, Frontline Manager

DATE: 17 July, 2008

Total Number of Pages: 31

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Section 1. Summary of Test Results

Manufacturer: Kemp-Meek Mfg., Inc.

Model No.: NC400

Serial No.: None

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart C, Paragraph 15.247 for Frequency Hopping Spread Spectrum devices. Radiated tests were conducted in accordance with ANSI C63.4-2003. Radiated emissions are made in semi-anechoic chamber.

A description of the test facility is on file with the FCC.



New Submission



Production Unit



Class II Permissive Change



Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See " Summary of Test Data".



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Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT
Powerline Conducted Emissions	15.207(a)	Complies
Channel Separation	15.247(a)(1)	Complies
Time of Occupancy	15.247(a)(1)	Complies
20 dB Occupied Bandwidth	15.247(a)(1)	Complies
Peak Power Output	15.247(b)	Complies
Spurious Emissions (Antenna Conducted)	15.247(d)	Complies
Spurious Emissions (Radiated)	15.247(d)	Complies

Footnotes:

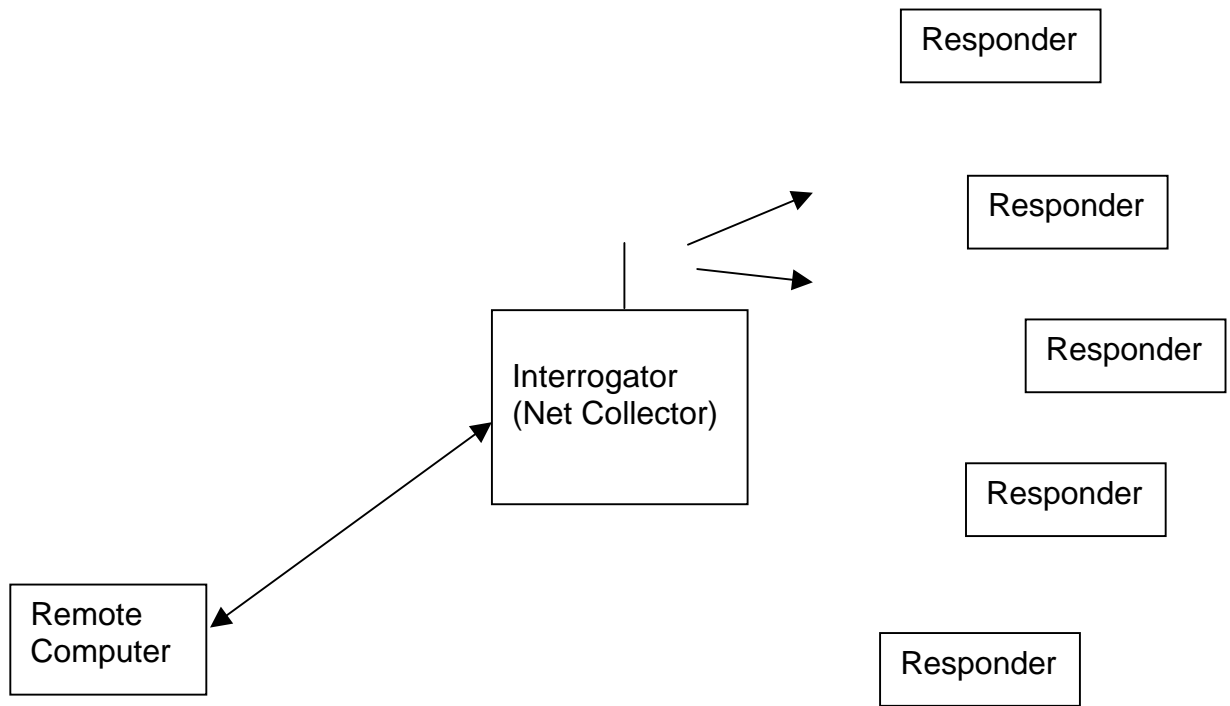
Section 2. Equipment Under Test (E.U.T.)

General Equipment Information

Frequency Band:	<input checked="" type="checkbox"/> 902 – 928 MHz <input type="checkbox"/> 2400 – 2483.5 MHz <input type="checkbox"/> 5725 – 5850 MHz
Operating Frequency Range:	902.1 to 927.9 MHz
Number of Channels:	50
Type of Modulation:	FSK, 9600 baud
Channel Spacing:	100 kHz
Time of Occupancy:	367 mS in 20 seconds
User Frequency Adjustment:	Software controlled

Description of EUT

The Net Collector is a unit that queries wireless meter reading modules at commercial/industrial sites and collects data through a wireless link.

System Diagram

Section 3. Channel Separation

NAME OF TEST: Channel Separation	PARA. NO.: 15.247(a)(1)
TESTED BY: David Light	DATE: 14 July 2008

Test Results: Complies.

Measurement Data: See 20 dB BW plot

Measured 20 dB bandwidth: 87.7 kHz max
Channel Separation: 100 kHz

Equipment Used: 1464-993-1484-1485

Measurement Uncertainty: $\frac{1 \times 10^{-7}}{\text{_____}}$ ppm

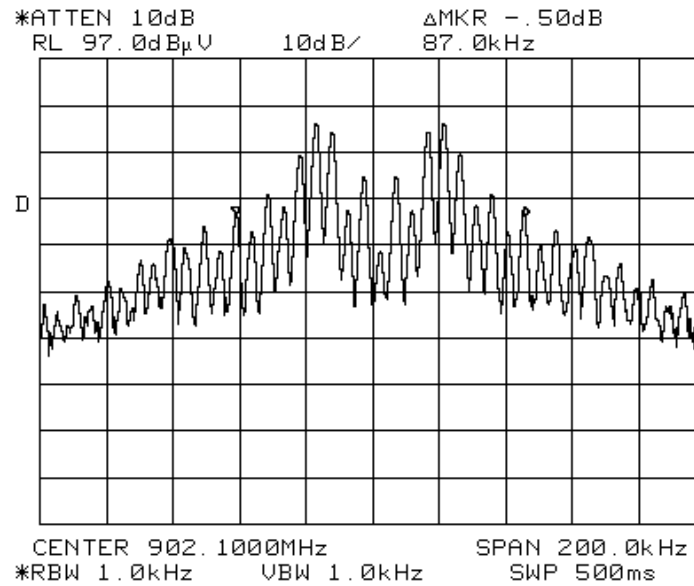
Temperature: 22 °C

Relative Humidity: 35 %

Test Data – Channel Separation

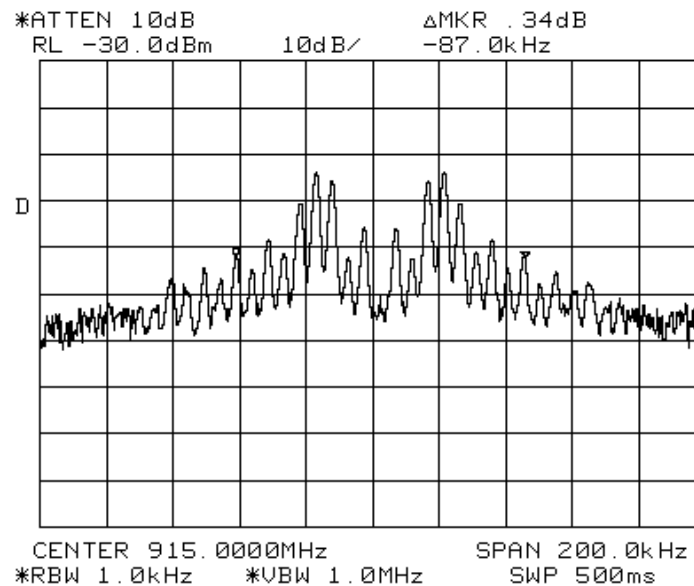
Low channel

20 dB Bandwidth



Mid Channel

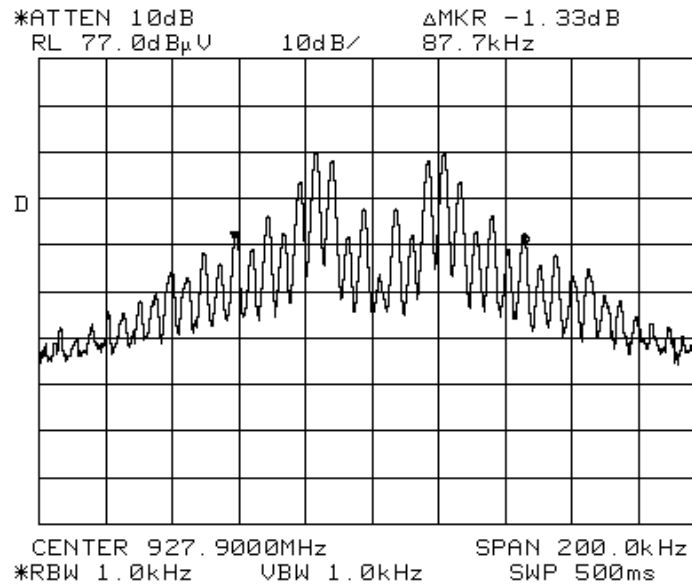
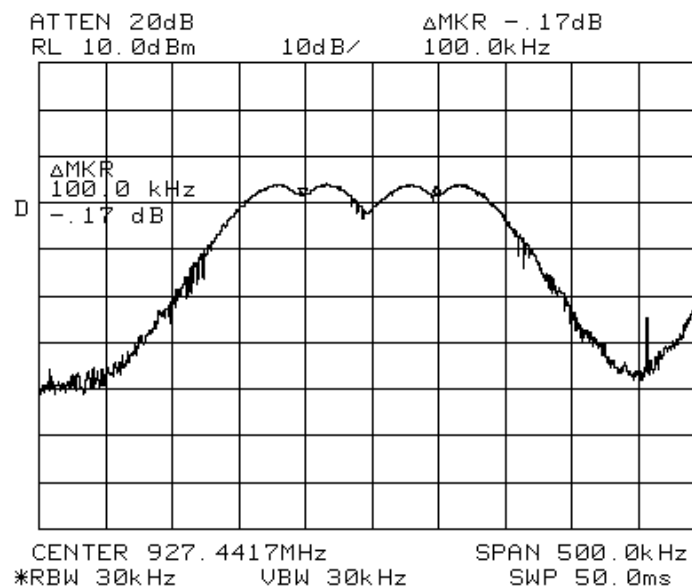
20 dB Bandwidth



Test Data – 20 dB Bandwidth

High Channel

20 dB Bandwidth

**100 kHz Spacing**

Section 4. Time of Occupancy

NAME OF TEST: Time of Occupancy	PARA. NO.: 15.247(a)(1)
TESTED BY: David Light	DATE: 14 July 2008

Test Results: Complies.

Measurement Data:

Maximum Dwell Time On Any Channel: 367 mS in 20 seconds

Equipment Used: 1464-1484-1485-993

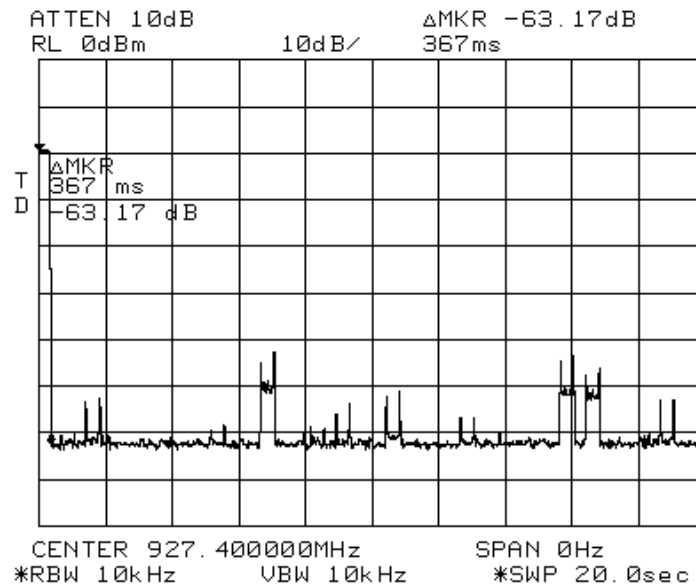
Measurement Uncertainty: $\frac{1 \times 10^{-7}}{\text{_____}}$ ppm

Temperature: 22 °C

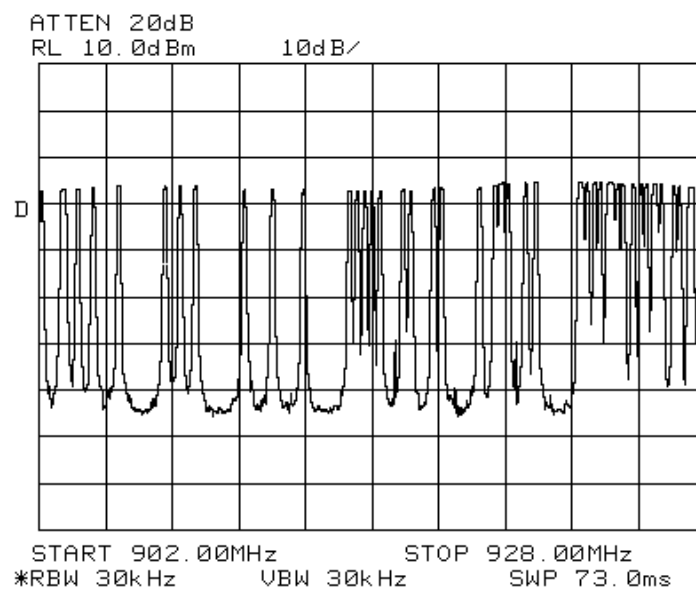
Relative Humidity: 35 %

Test Data – Time of Occupancy

20 second sweep



50 Channels



Section 5. Peak Power Output

NAME OF TEST: Peak Power Output	PARA. NO.: 15.247 (b)
TESTED BY: David Light	DATE: 14 July 2008

Test Results: Complies.

Measurement Data: See attached plots.

Detachable antenna? ☐ Yes ☒ No
If yes, state the type of non-standard connector used:

Frequency (MHz)	Peak Power (dBm)	Peak Power (mW)	Antenna Type	Gain (dBi)	E.I.R.P. (dBm)	E.I.R.P. (mW)
902.1	17.4	55.0	Integral	2.1	19.5	89.1
915.0	17.9	61.7	Integral	2.1	20.0	100.0
927.9	18.2	66.1	Integral	2.1	20.3	107.2
Maximum EIRP (mW): 107.2						

☒ This device was tested at +/- 15% input power per 15.31(e), with no variation in output power.

☐ For battery powered equipment, the device was tested with a fresh battery per 15.31(e).

☒ The device was tested on three channels per 15.31(l).

☒ This test was performed radiated. Peak power was calculated based on the stated gain of the manufacture's antenna. The spectrum analyzer was configured with the following settings:

Detector: Max. Peak

RBW: 1 MHz

VBW: 3 MHz

Equipment Used: 1464-1484-1485-993

Measurement Uncertainty: 1.7 dB

Temperature: 22 °C

Relative Humidity: 35 %

Section 6. Spurious Emissions

NAME OF TEST: Spurious Emissions	PARA. NO.: 15.247(d)
TESTED BY: David Light	DATE: 14 July 2008

Test Results:

Complies. The worst case emission was 47.5 dB μ V/m at 6405 MHz. This is 6.5 dB below the specification limit of 54.0 dB μ V/m.

Measurement Data: See attached.

Notes:

- ☒ The device was tested on three channels per 15.31(l).
- ☒ All emissions within 20 dB of the specification limit are reported per 15.31(o).

Equipment Used: 1484-1485-1464-993-1016-993

Measurement Uncertainty: +/-3.6 dB

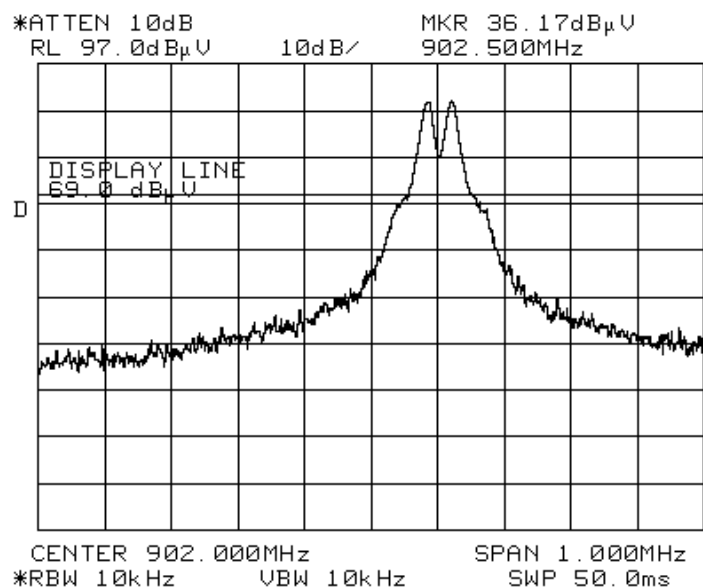
Temperature: 22 °C

Relative Humidity: 35 %

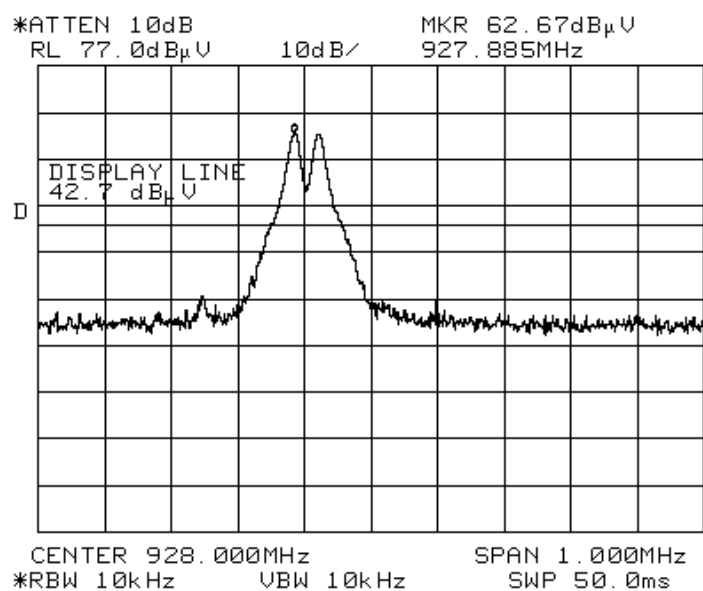
NOTE: Measurements on the band edges are made with the transmitter hopping continuously to the lowest and highest channels. The spectrum analyzer was set to max. hold for this measurement.

Test Data - Radiated Emissions

Low Bandedge



Upper Bandedge



Test Data - Radiated Emissions

High Channel

Frequency MHz	Peak Limit (dBµV/m)	Peaks Measured (dBµV/m)	Peak Margin (dB)	Average Limit (dBµV/m)	Average Meas (dBµV/m)	Average Margin (dB)	Polarity
2783.7	74.0	44.7	-29.3	54.0	33.7	-20.3	H
2783.7	74.0	44.7	-29.3	54.0	33.7	-20.3	H
3711.6	74.0	50.6	-23.4	54.0	44.9	-9.1	H
3711.6	74.0	50.6	-23.4	54.0	44.9	-9.1	H
4639.5	74.0	45.4	-28.6	54.0	36.1	-17.9	H
4639.5	74.0	45.4	-28.6	54.0	36.1	-17.9	H
5567.4	74.0	47.8	-26.2	54.0	37.6	-16.4	V
5567.4	74.0	47.8	-26.2	54.0	37.6	-16.4	V
6495.3	74.0	53.2	-20.8	54.0	47.2	-6.8	H
6495.3	74.0	53.2	-20.8	54.0	47.2	-6.8	H
7423.2	74.0	49.5	-24.5	54.0	40.5	-13.5	V
7423.2	74.0	49.5	-24.5	54.0	40.5	-13.5	V
8351.1	74.0	52.6	-21.4	54.0	44.4	-9.6	H
8351.1	74.0	52.6	-21.4	54.0	44.4	-9.6	H
9279.0	74.0	50.0	-24.0	54.0	39.7	-14.3	H
9279.0	74.0	50.0	-24.0	54.0	39.7	-14.3	H

Mid Channel

Frequency MHz	Peak Limit (dBµV/m)	Peaks Measured (dBµV/m)	Peak Margin (dB)	Average Limit (dBµV/m)	Average Meas (dBµV/m)	Average Margin (dB)	Polarity
2745.0	74.0	43.9	-30.1	54.0	32.4	-21.6	H
3660.0	74.0	49.9	-24.1	54.0	46.1	-7.9	H
3660.0	74.0	49.9	-24.1	54.0	46.1	-7.9	H
4575.0	74.0	49.7	-24.3	54.0	41.7	-12.3	H
4575.0	74.0	49.7	-24.3	54.0	41.7	-12.3	H
5490.0	74.0	48.5	-25.5	54.0	39.9	-14.1	H
5490.0	74.0	48.5	-25.5	54.0	39.9	-14.1	H
6405.0	74.0	53.5	-20.5	54.0	47.5	-6.5	H
6405.0	74.0	53.5	-20.5	54.0	47.5	-6.5	H
7320.0	74.0	50.9	-23.1	54.0	45.4	-8.6	V
7320.0	74.0	50.9	-23.1	54.0	45.4	-8.6	V
8235.0	74.0	54.2	-19.8	54.0	47.4	-6.6	H
8235.0	74.0	54.2	-19.8	54.0	47.4	-6.6	H
9150.0	74.0	53.1	-20.9	54.0	46.6	-7.4	H

Test Data - Radiated Emissions

Low Channel

Frequency MHz	Peak Limit (dBµV/m)	Peaks Measured (dBµV/m)	Peak Margin (dB)	Average Limit (dBµV/m)	Average Meas (dBµV/m)	Average Margin (dB)	Polarity
2706.3	74.0	46.7	-27.3	54.0	36.5	-17.5	V
2706.3	74.0	46.7	-27.3	54.0	36.5	-17.5	V
3608.4	74.0	46.1	-27.9	54.0	38.1	-15.9	V
3608.4	74.0	46.1	-27.9	54.0	38.1	-15.9	V
4510.5	74.0	47.4	-26.6	54.0	36.4	-17.6	V
4510.5	74.0	47.4	-26.6	54.0	36.4	-17.6	V
5412.6	74.0	48.6	-25.4	54.0	37.1	-16.9	H
5412.6	74.0	48.6	-25.4	54.0	37.1	-16.9	H
6314.7	74.0	50.8	-23.2	54.0	42.7	-11.3	V
6314.7	74.0	50.8	-23.2	54.0	42.7	-11.3	V
7216.8	74.0	50.4	-23.6	54.0	43.1	-10.9	H
7216.8	74.0	50.4	-23.6	54.0	43.1	-10.9	H
8118.9	74.0	53.1	-20.9	54.0	41.1	-12.9	V
8118.9	74.0	53.1	-20.9	54.0	41.1	-12.9	V
9021.0	74.0	50.0	-24.0	54.0	40.0	-14.0	V
9021.0	74.0	50.0	-24.0	54.0	40.0	-14.0	V

Peak Measurement: RBW=1 MHz VBW=1 MHz Peak detector

Average Measurement: RBW=1 MHz VBW=1 kHz Peak detector

The spectrum was searched to the tenth harmonic of the highest transmit frequency per 15.33.

Section 7. Powerline Conducted Emissions

NAME OF TEST: Powerline Conducted Emissions	PARA. NO.: 15.207(a)
TESTED BY: David Light	DATE: 14 July 2008

Test Results: Complies.

Test Data: Refer to attached plots

Equipment Used: 1659-1484-674-703

Measurement Uncertainty: +/- 1.7 dB

Temperature: 22 °C

Relative Humidity: 35 %

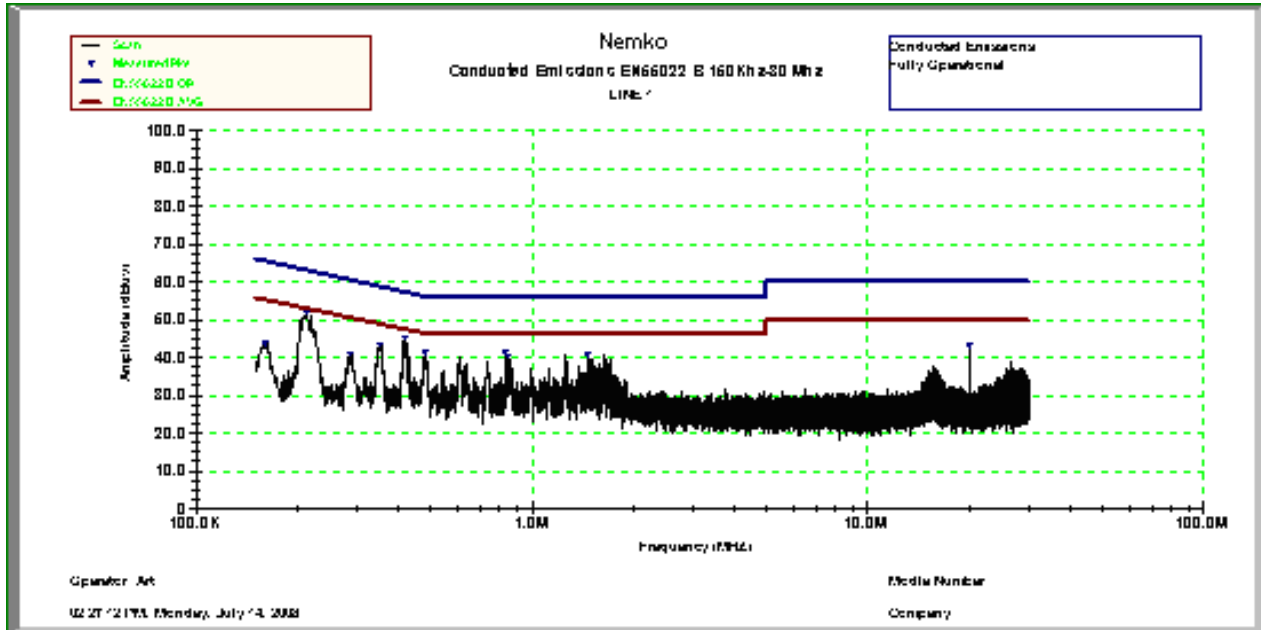
AC adapter Mouser part number 112021.

Input 120 Vac

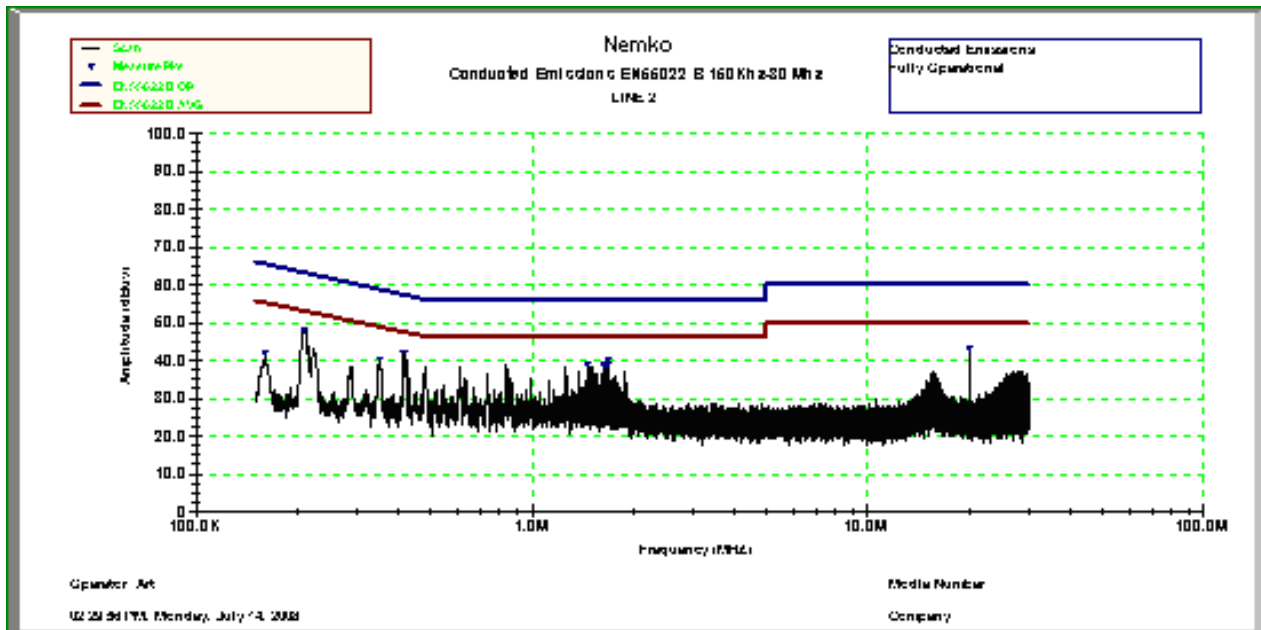
Output 12 Vdc

Test Data – Powerline Conducted Emissions

Line side



Neutral side

**Analyzer Settings:**

RBW/VBW = 10 kHz, Peak detector

Section 8. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
674	LIMITER	HP 11947A	3107A02200	04/19/06	04/19/07
1659	Spectrum Analyzer	Rhode & Schwarz FSP	973353	01/24/07	01/24/09
703	LISN	Rohde & Schwarz ESH2-Z5	871884/048	02/06/08	02/05/09
1484	Cable	Storm PR90-010-072	N/A	05/07/08	05/07/09
1485	Cable	Storm PR90-010-216	N/A	05/07/08	05/07/09
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/24/07	01/24/09
993	Horn antenna	A.H. Systems SAS-200/571	XXX	08/31/07	08/30/08
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	05/07/08	05/07/09
1763	Bilog Antenna	Schaffner CBL 6111D	22926	9/21/07	9/21/08

ANNEX A - TEST DETAILS

NAME OF TEST: Powerline Conducted Emissions

PARA. NO.: 15.207(a)

Minimum Standard: §15.207 Conducted limits.

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 mH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of Conducted Emission (MHz)	Limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

(1) For carrier current systems containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 mV within the frequency band 535-1705 kHz, as measured using a 50 mH/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits as provided in §15.205 and §§15.209, 15.221, 15.223, 15.225 or 15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provision for, the use of battery chargers which permit operating while charging, AC adaptors or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

NAME OF TEST: Channel Separation	PARA. NO.: 15.247(a)(1)
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Minimum Standard:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

NAME OF TEST: Time of Occupancy

PARA. NO.: 15.247(a)(1)

Minimum Standard:

Frequency Band (MHz)	20 dB Bandwidth	No. of Hopping Channels	Average Time of Occupancy
902 - 928	<250 kHz	50	=<0.4 sec. in 20 sec.
902 – 928	=>250 kHz	25	=<0.4 sec. in 10 sec.
2400 – 2483.5	-----	75	=<0.4 sec. in 0.4 seconds multiplied by the number of hopping channels employed.
5725 – 5850	-----	75	=<0.4 sec. in 30 sec.

Method Of Measurement:

The spectrum analyzer is set as follows:

RBW: 1 MHz

VBW: = RBW

Span: 0 Hz

LOG dB/div.: 10 dB

Sweep: Sufficient to see one hop time sequence.

Trigger: Video

The occupancy time of one hop is measured as above. The average time of occupancy is calculated over the appropriate period of time from above table

Avg. time of occupancy = (period from table/duration of one hop)/no. of channels multiplied by the duration of one hop.

For instance:

If a 2.4 GHz system has a measured hop duration time of 1 msec. and uses 75 channels, then the average time of occupancy would be:

$(30 \text{ sec.} / .001 \text{ sec.}) / 75 \text{ chan.} = 400 \times 1 \text{ msec.} = 400 \text{ msec. or } 0.4 \text{ sec. in } 30 \text{ sec.}$

NAME OF TEST: Occupied Bandwidth

PARA. NO.: 15.247(a)(1)

Minimum Standard:

Frequency Band (MHz)	Maximum 20 dB Bandwidth
902 - 928	500 kHz
2400 – 2483.5	Not defined
5725 – 5850	1 MHz

Method Of Measurement:

The spectrum analyzer is set as follows:

RBW: At least 1% of span/div.

VBW: >RBW

Span: Sufficient to display 20 dB bandwidth

LOG dB/div.: 10 dB

Sweep: Auto

Number of channels tested:

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

NAME OF TEST: Peak Power Output

PARA. NO.: 15.247(b)

Minimum Standard:

Frequency Band (MHz)	No. of Hopping Channels	Maximum Peak Power Output at Antenna Port
902 - 928	at least 50	1 watt
902 – 928	25 - 49	0.25 watts
2400 – 2483.5	75	1 watt
5725 – 5850	75	1 watt

If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point to point operation may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceed 6 dBi.

Systems operating in the 5725 – 5850 MHz band that are used exclusively for fixed, point-to-point operation may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

Direct Measurement Method For Detachable Antennas:

If the antenna is detachable, a peak power meter or spectrum analyzer set to maximum peak detection with resolution bandwidth greater than the 20 dB bandwidth of the transmitted waveform is used to measure the power output with the transmitter. The dBi gain of the antenna(s) employed shall be reported.

Calculation Of EIRP For Integral Antenna:

If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation $GP/4\pi R^2 = E^2/120\pi$ and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

P = the equivalent isotropic radiated power in watts

E = the maximum measured field strength in V/m

R = the measurement range (3 meters)

G = the numeric gain of the transmit antenna in relation to an isotropic radiator

The RBW of the spectrum analyzer shall be set to a value greater than the measured 20 dB occupied bandwidth of the E.U.T.

Number of channels tested:

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

NAME OF TEST: Spurious Emissions at Antenna Terminals	PARA. NO.: 15.247(d)
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Minimum Standard:

In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits. Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength limits:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ @ 3m)	Field Strength (dB @ 3m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

THE SPECTRUM WAS SEARCHED TO THE 10th HARMONIC**Method Of Measurement:**

30 MHz - 10th harmonic plot

RBW: 100 kHz

VBW: 300 kHz

Sweep: Auto

Display line: -20 dBc

Lower Band Edge

RBW: At least 1% of span/div.

VBW: >RBW

Span: As necessary to display any spurious at band edge.

Sweep: Auto

Center Frequency: 902 MHz, 2400 MHz, or 5725 MHz

Marker: Peak of fundamental emission

Marker Δ : Peak of highest spurious level below center frequency.Upper Band Edge

RBW: At least 1% of span/div.

VBW: >RBW

Span: As necessary to display any spurious at band edge.

Sweep: Auto

Center Frequency: 928 MHz, 2483.5 MHz, or 5850 MHz

Marker: Peak of fundamental emission

Marker Δ : Peak of highest spurious level above center frequency.

Number of channels tested:

Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

NAME OF TEST: Radiated Spurious Emissions

PARA. NO.: 15.247(d)

Minimum Standard:

In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits:

Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength limits:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ @ 3m)	Field Strength (dB @ 3m)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above 960	500	54.0

THE SPECTRUM WAS SEARCHED TO THE 10th HARMONIC

15.205 Restricted Bands

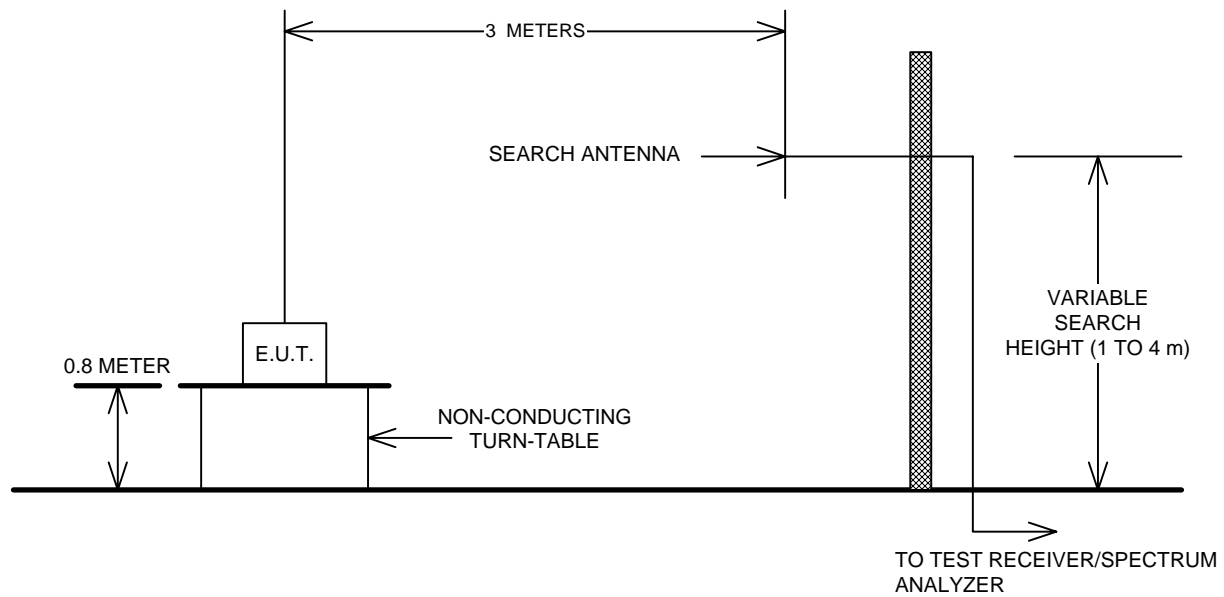
MHz	MHz	MHz	GHz
0.09-0.11	16.42-16.423	399.9-410	4.5-5.25
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.125-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41	1718		

Number of channels tested:

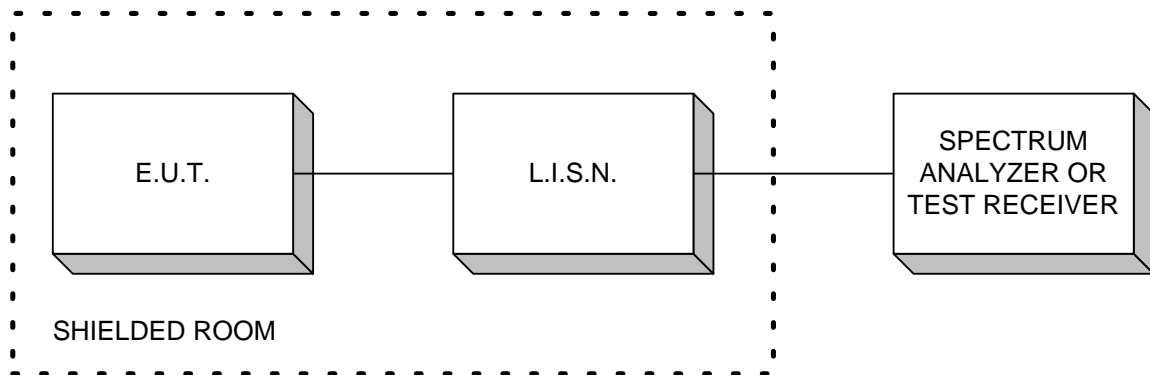
Tuning range	Number of channels tested	Channel location in band
1 MHz or less	1	middle
1 to 10 MHz	2	top and bottom
more than 10 MHz	3	top, middle, bottom

ANNEX B - TEST DIAGRAMS

Test Site For Radiated Emissions



Conducted Emissions



Peak Power at Antenna Terminals

