

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

TABLE OF CONTENTS

TEST REPORT CONTAINING:

PAGE 1.....	LETTER OF EXPLANATION
PAGE 2-5.....	LIST OF TEST EQUIPMENT
PAGE 6.....	TEST PROCEDURES
PAGE 7.....	PRODUCT DESCRIPTION
PAGE 8.....	POWERLINE CONDUCTED INTERFERENCE
PAGE 9-10.....	POWERLINE CONDUCTED PLOTS
PAGE 11.....	OCCUPIED BANDWIDTH AND PLOT
PAGE 12.....	POWER OUTPUT
PAGE 13.....	METHOD OF MEASURING RF CONDUCTED AND SPURIOUS EMISSIONS AT ANTENNA TERMINALS DATA
PAGE 14-16.....	RADIATION INTERFERENCE TEST DATA
PAGE 17.....	METHOD OF MEASURING RADIATED SPURIOUS EMISS.
PAGE 18.....	RADIATED SPURIOUS EMISSIONS INTO ADJACENT RESTRICTED BANDS
PAGE 19.....	POWER SPECTRAL DENSITY
PAGE 20.....	POWER SEPCTRAL DENSITY PLOT

EXHIBIT ATTACHMENTS:

EXHIBIT 1.....	REQUEST FOR CONFIDENTIALITY LETTER
EXHIBIT 2.....	FCC ID LABEL SAMPLE
EXHIBIT 3.....	SKETCH OF FCC ID LABEL LOCATION
EXHIBIT 4.....	EXTERNAL PHOTOS
EXHIBIT 5.....	INTERNAL PHOTOS
EXHIBIT 6.....	BLOCK DIAGRAM
EXHIBIT 7.....	SCHEMATICS - AMPLIFIER
EXHIBIT 8.....	SCHEMATICS - LUCENT RADIO
EXHIBIT 9-10.....	TEST SET UP PHOTOS- RADIATED
EXHIBIT 11-12.....	TEST SET UP PHOTOS - POWERLINE CONDUCTED
EXHIBIT 13.....	OPERATIONAL DESCRIPTION
EXHIBIT 14.....	PROCESSING GAIN INFORMATION
EXHIBIT 15.....	INSTRUCTION MANUAL

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

TABLE OF CONTENTS LIST

March 15, 2002

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

SUBJECT: WAVE WIRELESS NETWORKING
DIVISION OF SPEEDCOM WIRELESS CORP.

FCC ID: NCBSLXE2

To Whom It May Concern:

The attached application is for a direct sequence spread spectrum Assembly, made up of the Bridge/Radio, 50 foot of coax, a lightning arrestor, amplifier, and a parabolic antenna.

This system has only one type of antenna, a parabolic dish that has 24 dBi.

WAVE WIRELESS NETWORKING purchases standard antennas from the manufacturer. The antenna is intended to be used outside and mounted on fixed, permanent structures. The NCBSLXE2 uses unique connectors (reverse TNC).

This unit is designed to be professionally installed.

Should you have any questions or require any further information with regards to this, please feel free to contact me.

Sincerely,

Mario R. de Aranzeta
Engineer

MRD/sh
Encl.

Equipment List

	DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
X	3-Meter OATS	TEI	N/A	N/A	Listed 12/22/99	12/22/02
	3/10-Meter OATS	TEI	N/A	N/A	Listed 3/26/01	3/26/04
X	Receiver, Beige Tower Spectrum Analyzer (Tan) RF Preselector (Tan) Quasi-Peak Adapter (Tan)	HP	8566B Opt 462	3138A07786	CAL	8/31/02
X				3144A20661	8/31/01	
X		HP	85685A	3221A01400	CAL	8/31/02
X		HP	85650A	3303A01690	CAL	8/31/02
	Receiver, Blue Tower Spectrum Analyzer (Blue) RF Preselector (Blue) Quasi-Peak Adapter (Blue)	HP	8568B	2928A04729	CHAR	10/22/02
				2848A18049	10/22/01	
		HP	85685A	2926A00983	CHAR	10/22/02
		HP	85650A	2811A01279	CHAR	10/22/02
	Biconnical Antenna	Electro-Metrics	BIA-25	1171	CAL 4/26/01	4/26/03
X	Biconnical Antenna	Eaton	94455-1	1096	CAL 10/1/01	10/1/02
	Biconnical Antenna	Eaton	94455-1	1057	CHAR 3/15/00	3/15/01
	BiconiLog Antenna	EMCO	3143	9409-1043		
	Log-Periodic Antenna	Electro-Metrics	LPA-25	1122	CAL 10/2/01	10/2/02
X	Log-Periodic Antenna	Electro-Metrics	EM-6950	632	CHAR 10/15/01	10/15/02
	Log-Periodic Antenna	Electro-Metrics	LPA-30	409	CHAR 10/16/01	10/16/02
	Dipole Antenna Kit	Electro-Metrics	TDA-30/1-4	152	CAL 3/21/01	3/21/02
	Dipole Antenna Kit	Electro-Metrics	TDA-30/1-4	153	CHAR 11/24/00	11/24/01
X	Double-Ridged Horn Antenna	Electro-Metrics	RGA -180	2319	CAL 12/19/01	12/19/02
	Horn Antenna	Electro-Metrics	EM-6961	6246	CAL 3/21/01	3/21/02

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

Page 2 of 20

	DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
	Horn Antenna	ATM	19-443-6R	None	No Cal Required	
	Passive Loop Antenna	EMC Test Systems	EMCO 6512	9706-1211	CHAR 7/10/01	7/10/02
X	Line Impedance Stabilization . . .	Electro-Metrics	ANS-25/2	2604	CAL 10/9/01	10/9/02
	Line Impedance Stabilization . . .	Electro-Metrics	EM-7820	2682	CAL 3/16/01	3/16/02
	Termaline Wattmeter	Bird Electronic Corporation	611	16405	CAL 5/25/99	(5/25/00)
	Termaline Wattmeter	Bird Electronic Corporation	6104	1926	CAL 12/12/01	12/12/02
	Oscilloscope	Tektronix	2230	300572	CHAR 2/1/01	2/1/02
	Temperature Chamber	Tenney Engineering	TTRC	11717-7	CHAR 1/22/02	1/22/03
	AC Voltmeter	HP	400FL	2213A14499	CAL 10/9/01	10/9/02
	AC Voltmeter	HP	400FL	2213A14261	CHAR 10/15/01	10/15/02
	AC Voltmeter	HP	400FL	2213A14728	CHAR 10/15/01	10/15/02
X	Digital Multimeter	Fluke	77	35053830	CHAR 1/8/02	1/8/03
	Digital Multimeter	Fluke	77	43850817	CHAR 1/8/02	1/8/03
	Digital Multimeter	HP	E2377A	2927J05849	CHAR 1/8/02	1/8/03
	Multimeter	Fluke	FLUKE-77-3	79510405	CAL 9/26/01	9/26/02
X	Peak Power Meter	HP	8900C	2131A00545	CHAR 1/26/01	1/26/02
	Digital Thermometer	Fluke	2166A	42032	CAL 1/16/02	1/16/03
	Thermometer	Traulsen	SK-128		CHAR 1/22/02	1/22/03
	Temp/Humidity gauge	EXTech	44577F	E000901	CHAR 1/22/02	1/22/03
	Frequency Counter	HP	5352B	2632A00165	CAL 11/28/01	11/28/02
	Power Sensor	Agilent Technologies	84811A	2551A02705	CAL 1/26/01	1/26/02
	Injection Probe	Fischer Custom Communications	F-120-9A	270	CAL 6/1/01	6/1/02
	Service Monitor	IFR	FM/AM 500A	5182	CAL 11/22/00	11/22/01
	Comm. Serv. Monitor	IFR	FM/AM 1200S	6593	CAL 11/12/99	11/12/00

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

Page 3 of 20

	DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
	Signal Generator	HP	8640B	2308A21464	CAL 11/15/01	11/15/02
	Modulation Analyzer	HP	8901A	3435A06868	CAL 9/5/01	9/5/02
	Power Line Coupling/ Decoupling Network	Fischer Custom Communications	FCC-801-M2- 16A	01048	CAL 8/29/01	8/29/02
	Power Line Coupling/ Decoupling Network	Fischer Custom Communications	FCC-801-M3- 16A	01060	CAL 8/29/01	8/29/02
	VHF/UHF Current Probe	Fischer Custom Communications	F-52	130	CAL 8/30/01	8/30/02
	Passive Impedance Adapter	Fischer Custom Communications	FCC-801-150- 50-CDN	01117 & 01118	CAL 8/29/01	8/29/02
	Radiating Field Coil	Fischer Custom Communications	F-1000-4- 8/9/10-L-1M	9859	CAL 10/15/98	10/15/99
	Near Field Probe	HP	HP11940A	2650A02748	CHAR 2/1/01	2/1/02
	BandReject Filter	Lorch Microwave	5BR4-2400/ 60-N	Z1	CHAR 3/2/01	3/2/02
	BandReject Filter	Lorch Microwave	6BR6-2442/ 300-N	Z1	CHAR 3/2/01	3/2/02
	BandReject Filter	Lorch Microwave	5BR4-10525/ 900-S	Z1	CHAR 3/2/01	3/2/02
	High Pas Filter	Microlab	HA-10N		CHAR 10/4/01	10/4/02
	Audio Oscillator	HP	653A	832-00260	CHAR 3/1/01	3/1/02
	Frequency Counter	HP	5382A	1620A03535	CHAR 3/2/01	3/2/02
	Frequency Counter	HP	5385A	3242A07460	CHAR 12/11/01	12/11/02
	Preamplifier	HP	8449B-H02	3008A00372	CHAR 3/4/01	3/4/02
	Amplifier	HP	11975A	2738A01969	CHAR 3/1/01	3/1/02
	Egg Timer	Unk			CHAR 2/28/01	2/28/02
	Measuring Tape, 20M	Kraftixx	0631-20		CHAR 2/28/01	2/28/02
	Measuring Tape, 7.5M	Kraftixx	7.5M PROFI		CHAR 2/28/01	2/28/02
	EMC Immunity Test System	Keytek	CEMASTER	9810210		
	AC Power Source	California Instruments	1251RP	L05865		
	AC Power Source	California Instruments	PACS-1	X71484		
	Isotropic Field Probe	Amplifier Research	FP5000	22839		

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

Page 4 of 20

	DEVICE	MFGR	MODEL	SERNO	CAL/CHAR DATE	DUE DATE or STATUS
	Isotropic Field Probe	Amplifier Research	FP5000	300103		
	Capacitor Clamp	Keytek	CM-CCL	9811359	No Cal Required	
	Amplifier	Amplifier Research	10W1000B	23117	No Cal Required	
	Field Monitor	Amplifier Research	FM5004	22288	No Cal Required	
	ELF Meter	F. W. Bell	4060	Not serialized		
	Coaxial Cable #51	Insulated Wire Inc.	NPS 2251 -2880	Timco #51	CHAR 1/23/02	1/23/03
	Coaxial Cable #64	Semflex Inc.	60637	Timco #64	CHAR 1/24/02	1/24/03
	Coaxial Cable #65	General Cable Co.	E9917 RG233/U	Timco #65	CHAR 1/23/02	1/23/03
	Coaxial Cable #106	Unknown	Unknown	Timco #106	CHAR 1/23/02	1/23/03

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

Page 5 of 20

TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC. Shielded interface cables were used in all cases except for cables connecting to the telephone line and the power cords. A test program was run which simulated a normal data transmission on a network.

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-1992 using a 50 uH LISN. Both lines were observed with the UUT transmitting. The bandwidth of the spectrum analyzer was 10kHz with an appropriate sweep speed. The ambient temperature of the UUT was 76°F with a humidity of 55%.

BANDWIDTH 6.0dB: The measurements were made with the spectrum analyzer's resolution bandwidth(RBW)=1.0 MHz and the video bandwidth(VBW) =3.0 MHz and the span set as shown on plot.

POWER OUTPUT: The RF power output was measured at the antenna feed point using a peak power meter.

ANTENNA CONDUCTED EMISSIONS: The RBW=100 kHz, VBW=300 kHz and the span set to 10.0 MHz and the spectrum was scanned from 30 MHz to the 10th Harmonic of the fundamental. Above 1.0 GHz the resolution bandwidth was 1.0 MHz and the VBW = 3.0 MHz and the span to 50 MHz.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-1992 using a HEWLETT PACKARD spectrum analyzer with a preselector. The bandwidth(RBW) of the spectrum analyzer was 100 kHz up to 1 GHz and 1.0 MHz above 1GHz with an appropriate sweep speed. The VBW above 1.0 GHz was = 3.0 MHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the UUT was 50°F with a humidity of 49%.

APPLICANT: WAVE WIRELESS NETWORKING

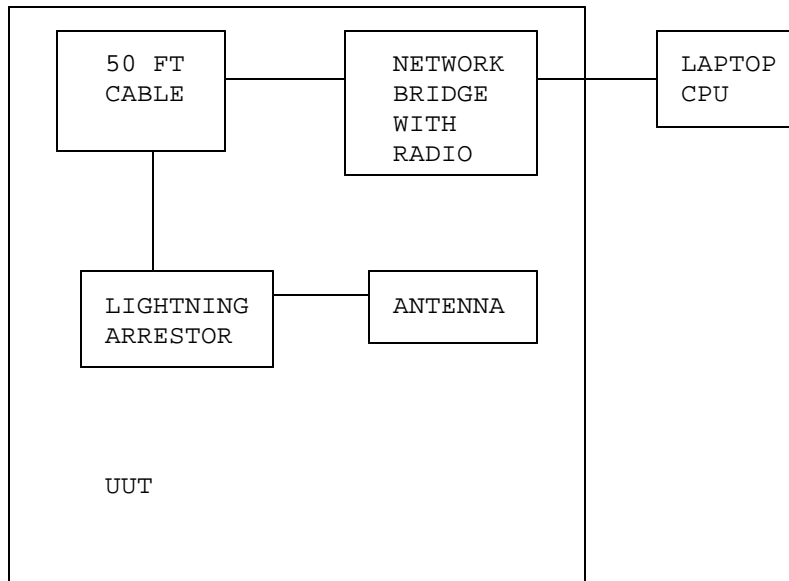
FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

Page 6 of 20

PRODUCT DESCRIPTION:

The NCBSLXE2 is a direct sequence spread spectrum radio that operates in the 2400 MHz to 2483.5 MHz band. The data output is directly usable in a wireless LAN network (10 base T).



APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

Page 7 of 20

APPLICANT: WAVE WIRELESS NETWORKING
FCC ID: NCBSLXE2
NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE
RULES PART NUMBER: 15.107(a)
REQUIREMENTS: .45 - 30 MHz 250 uV OR 47.96 dBuV
TEST PROCEDURE: ANSI STANDARD C63.4-1992. The spectrum
was scanned from .45 to 30 MHz.
TEST DATA:

THE HIGHEST EMISSION READ FOR LINE 1 WAS 42.606 uV @ 11.32 MHz.

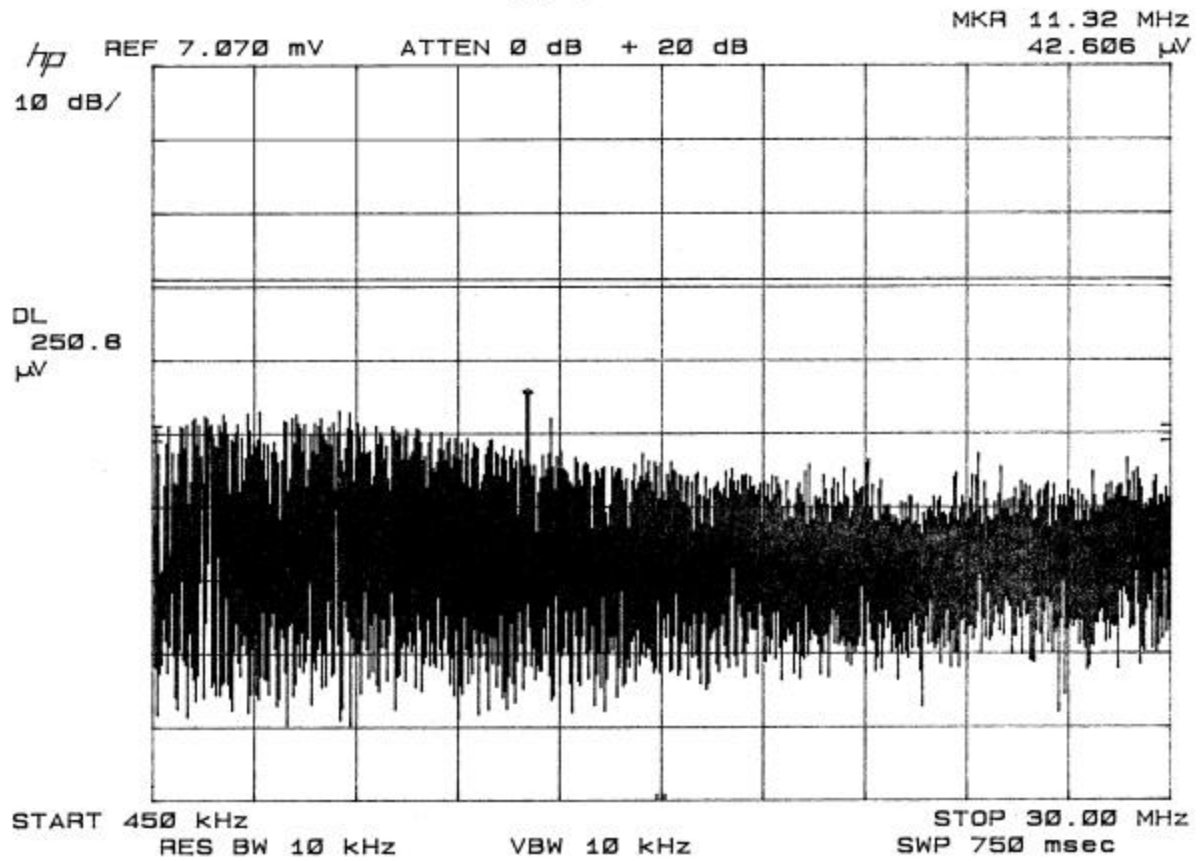
THE HIGHEST EMISSION READ FOR LINE 2 WAS 58.813 uV @ 860 kHz

THE PLOTS ON THE NEXT 2 PAGES REPRESENT THE EMISSIONS TAKEN 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.

APPLICANT: WAVE WIRELESS NETWORKING
FCC ID: NCBSLXE2

LINE 1



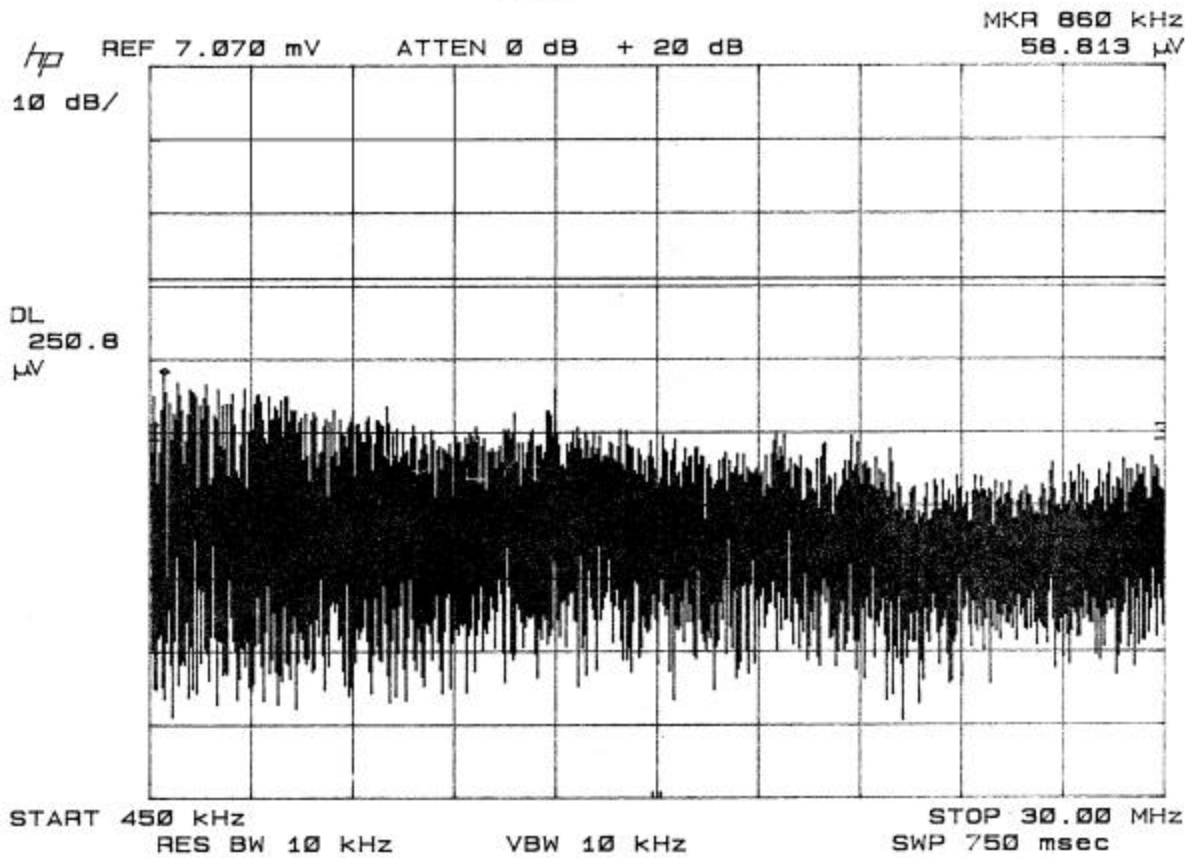
APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

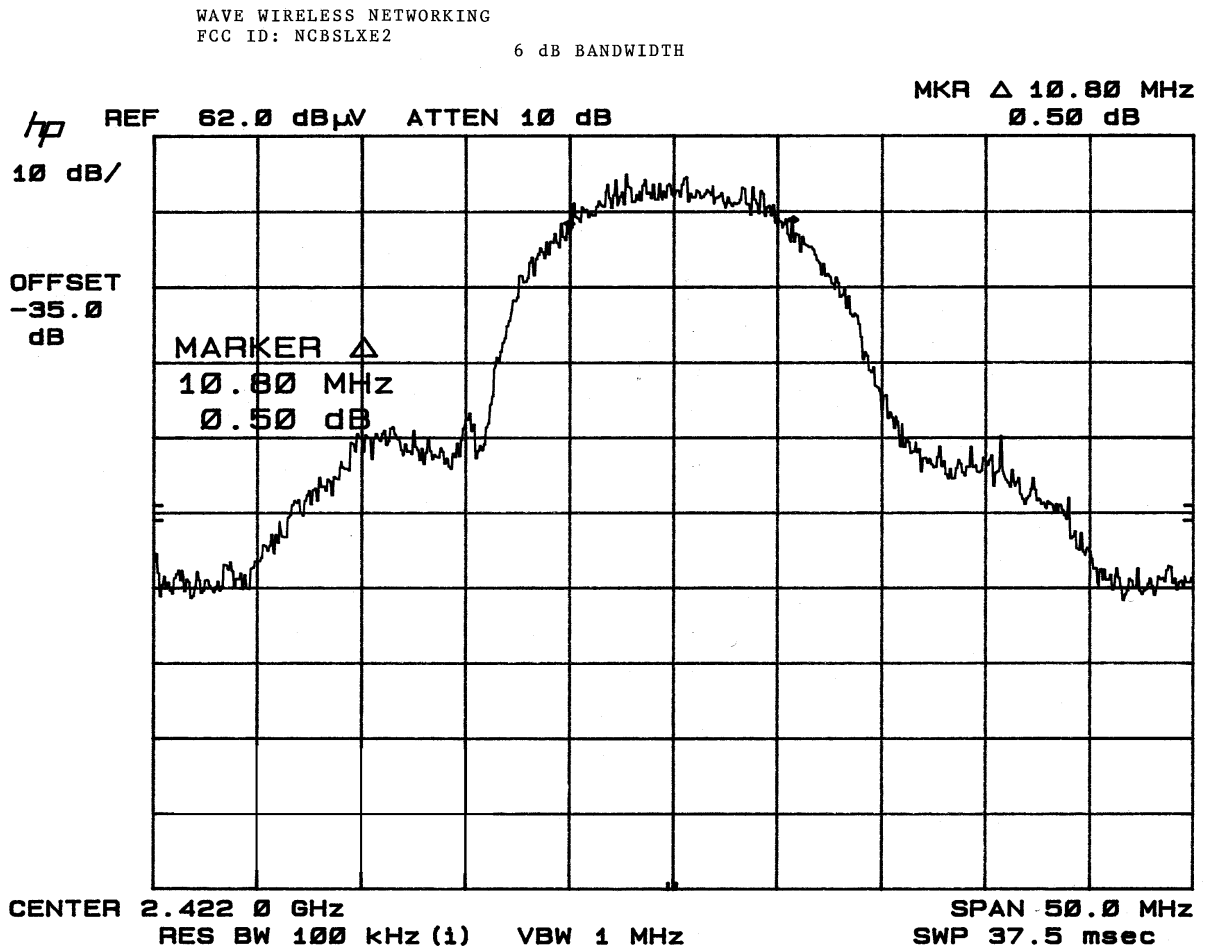
Page 9 of 20

LINE 2



APPLICANT: WAVE WIRELESS NETWORKING
 FCC ID: NCBSLXE2
 NAME OF TEST: 6.0dB BANDWIDTH
 RULES PART NUMBER: 15.247(a)(2)
 REQUIREMENTS: The 6.0 dB bandwidth must be greater than 500 kHz.
 MEASUREMENT: The 6.0 dB bandwidth measured:
 10.80 MHz @ 2422.00 MHz.

MEASUREMENT DATA: Measurements were made in three places and the worst case presented in the following plot.

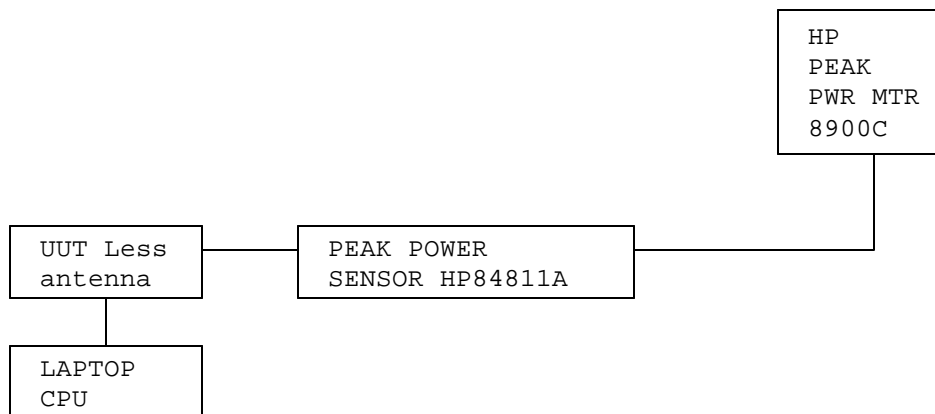


NAME OF TEST: POWER OUTPUT

RULES PART NUMBER: 15.247(b) 1.0 Watt or +30 dBm
250 mW or 24 dBm for 24dBi Gain Ant

MEASUREMENT: 125 mW or .125 Watts @ 2422.0 MHz

15.247(c) Method of Measuring RF Power output:
The Peak power Sensor was connected in place of the antenna.



APPLICANT: WAVE WIRELESS NETWORKING

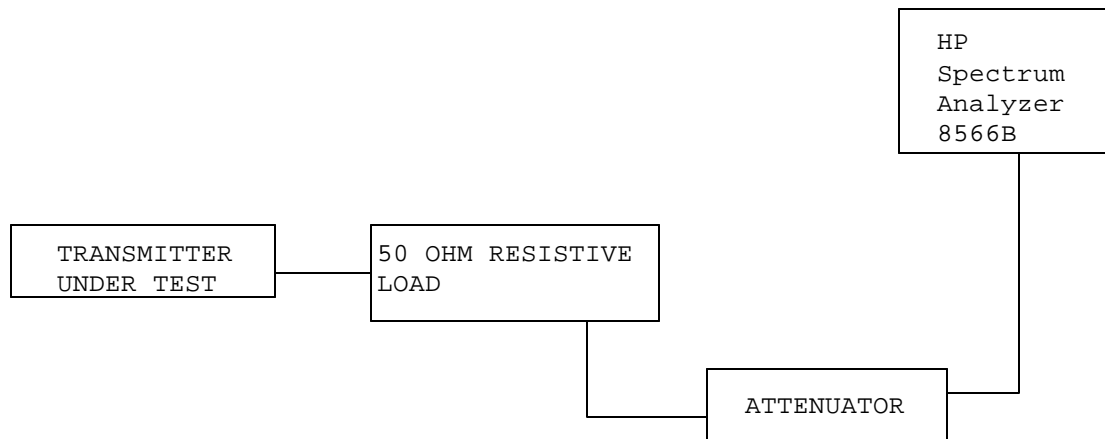
FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

Page 12 of 20

15.247(c)

Method of Measuring RF Conducted Spurious Emissions



NAME OF TEST: SPURIOUS EMISSIONS AT ANTENNA TERMINALS

REQUIREMENTS: Emissions must be at least 20dB down from the highest emission level within the authorized band as measured with a 100kHz RBW.

EMISSION FREQUENCY MHz	dB BELOW CARRIER
2422.0	00.00
4844.0	56.2
7263.0	95.8
9688.0	109.3

NOTE: THE SPECTRUM WAS SCANNED TO THE TENTH HARMONIC.

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

Page 13 of 20

15.247©,15.205 &15.209(b) Field_strength_of_spurious_emissions:

REQUIREMENTS:

FIELD STRENGTH	FIELD STRENGTH	S15.209	
of Fundamental:	of Harmonics	30 - 88 MHz	40 dBuV/m @3M
902-928MHz		88 -216 MHz	43.5
2.4-2.4835GHz		216 -960 MHz	46
127.38dBuV/m @3m	54 dBuV/m @3m	ABOVE 960 MHz	54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REQUIREMENTS: Emissions that fall in the restricted bands (15.205) must be less than 54dBuV/m otherwise the spurious and harmonics must be attenuated by at least 20dB.

TEST DATA:

Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
DIGITAL EMISSIONS						
47.20	26.70	V	0.25	10.90	37.85	2.15
58.40	28.80	H	0.80	8.27	37.87	2.13
116.80	22.80	H	0.80	9.15	32.75	10.75
125.70	24.50	H	0.80	11.61	36.91	6.59
128.80	28.00	H	0.80	12.76	41.56	1.94
133.60	20.40	H	0.80	14.53	35.73	7.77
133.90	18.30	H	0.80	14.64	33.74	9.76
140.90	18.60	H	0.80	16.90	36.30	7.20
142.10	24.80	H	0.80	16.90	42.50	1.00
150.30	21.30	H	0.90	16.89	39.09	4.41
167.00	23.00	H	0.90	18.00	41.90	1.60
169.10	21.90	H	0.90	18.42	41.22	2.28
175.40	21.50	H	0.90	16.52	38.92	4.58
186.10	15.50	H	0.90	14.09	30.49	13.01
197.30	20.20	H	0.90	12.89	33.99	9.51
201.00	27.70	H	1.20	11.95	40.85	2.65
208.90	27.20	V	1.20	12.18	40.58	2.92
214.80	26.10	H	1.20	12.35	39.65	3.85
225.50	30.20	H	1.20	12.66	44.06	1.94
233.90	24.10	H	1.20	12.91	38.21	7.79
240.00	23.20	H	1.20	13.09	37.49	8.51
242.20	23.50	H	1.20	13.15	37.85	8.15
253.70	26.50	H	1.40	13.48	41.38	4.62
259.10	24.60	H	1.40	13.64	39.64	6.36
272.10	19.20	H	1.40	14.02	34.62	11.38
275.70	22.60	H	1.40	14.14	38.14	7.86

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

Page 14 of 20

15.247(c),15.205 &15.209(b) Field_strength_of_spurious_emissions:

REQUIREMENTS:

FIELD STRENGTH	FIELD STRENGTH	S15.209	
of Fundamental:	of Harmonics	30 - 88 MHz	40 dBuV/m @3M
902-928MHz		88 -216 MHz	43.5
2.4-2.4835GHz		216 -960 MHz	46
127.38dBuV/m @3m	54 dBuV/m @3m	ABOVE 960 MHz	54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REQUIREMENTS: Emissions that fall in the restricted bands (15.205) must be less than 54 dBuV/m otherwise the spurious and harmonics must be attenuated by at least 20 dB.

TEST DATA CONTINUED:

Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
DIGITAL EMISSIONS						
281.90	21.50	H	1.40	15.54	37.44	8.56
282.60	18.20	H	1.40	14.59	34.19	11.81
292.40	26.40	H	1.40	15.21	43.01	2.99
310.00	18.50	H	1.40	15.34	35.24	10.76
325.80	19.40	H	1.40	14.85	35.65	10.35
336.10	14.10	H	1.40	15.15	30.65	15.35
338.30	15.80	H	1.40	15.21	32.41	13.59
342.50	11.30	H	1.40	15.33	28.03	17.97
356.40	12.50	H	1.40	15.74	29.64	16.36
366.40	16.00	H	1.40	16.03	33.43	12.57
381.00	16.70	H	1.40	16.45	34.55	11.45
384.00	17.40	H	1.40	16.54	35.34	10.66
394.70	15.00	H	1.40	16.85	33.25	12.75
405.60	11.90	H	1.60	17.13	30.63	15.37
422.90	16.90	H	1.60	17.53	36.03	9.97
430.10	11.50	H	1.60	17.69	30.79	15.21
434.60	13.00	H	1.60	17.80	32.40	13.60
451.00	22.10	V	1.60	18.17	41.87	4.13
479.20	20.60	V	1.60	18.82	41.02	4.98
501.20	19.10	V	1.60	19.31	40.01	5.99
559.50	16.30	H	1.60	19.78	37.68	8.32
592.00	15.40	H	1.60	20.04	37.04	8.96
624.20	12.00	H	1.60	20.63	34.23	11.77
625.00	12.00	H	1.60	20.65	34.25	11.75

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

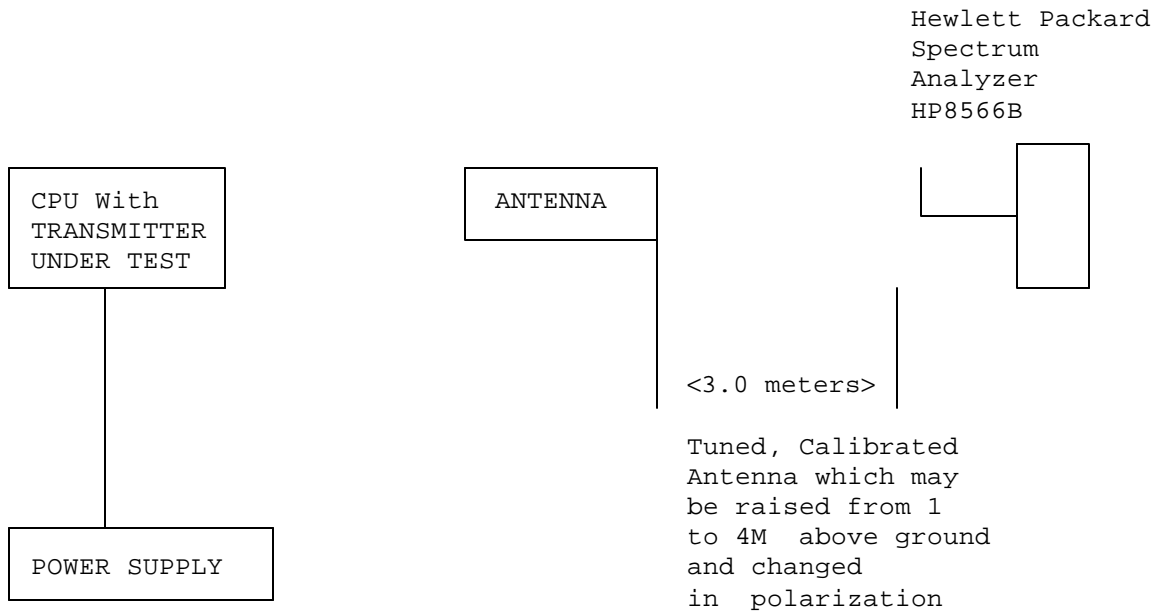
Page 15 of 20

ANTENNA GAIN 24 dBi
INTENTIONAL RADIATOR EMISSIONS

Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
2422.00	97.50	V	3.34	30.70	131.54	
2483.50	19.70	V	3.39	30.86	53.95	0.05
4844.00	15.30	V	5.98	34.87	56.15	25.39

METHOD OF MEASUREMENT: The procedure used was ANSI STANDARD C63.4-1992 & the Guidance on Measurements for Direct Sequence Spread Spectrum Systems. The UUT was tested to the 10th Harmonic. Measurements were made at the open field test site of TIMCO ENGINEERING INC. located at 849 N.W. State Road 45, Newberry, FL 32669.

Method of Measuring Radiated Spurious Emissions



Equipment placed 80 cm above ground on a rotatable platform.

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

Page 17 of 20

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

NAME OF TEST: RADIATED SPURIOUS EMISSIONS INTO ADJACENT RESTRICTED BAND

REQUIREMENTS: Emissions that fall in the restricted bands
(15.205). These emissions must be less than
or equal to 500 uV/m (54 dBuV/m).

TEST PROCEDURE: An in band field strength measurement of the fundamental
Emission using the RBW and detector function required
by C63.4-2000 and FCC Rules. The procedure was repeated
with an average detector and a plot made. The calculated
field strength in the adjacent restricted band is
presented below.

19.80 - Measured
+ 3.39 - Coax Loss
+30.86 - ACF

53.95 dBuV

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

Page 18 of 20

APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

NAME OF TEST: POWER SPECTRAL DENSITY

RULES PART NUMBER: 15.247(d)

REQUIREMENTS: The peak level measured must be no greater than
+8.0 dBm.

DATA: THE PLOT IS ON THE FOLLOWING PAGE.

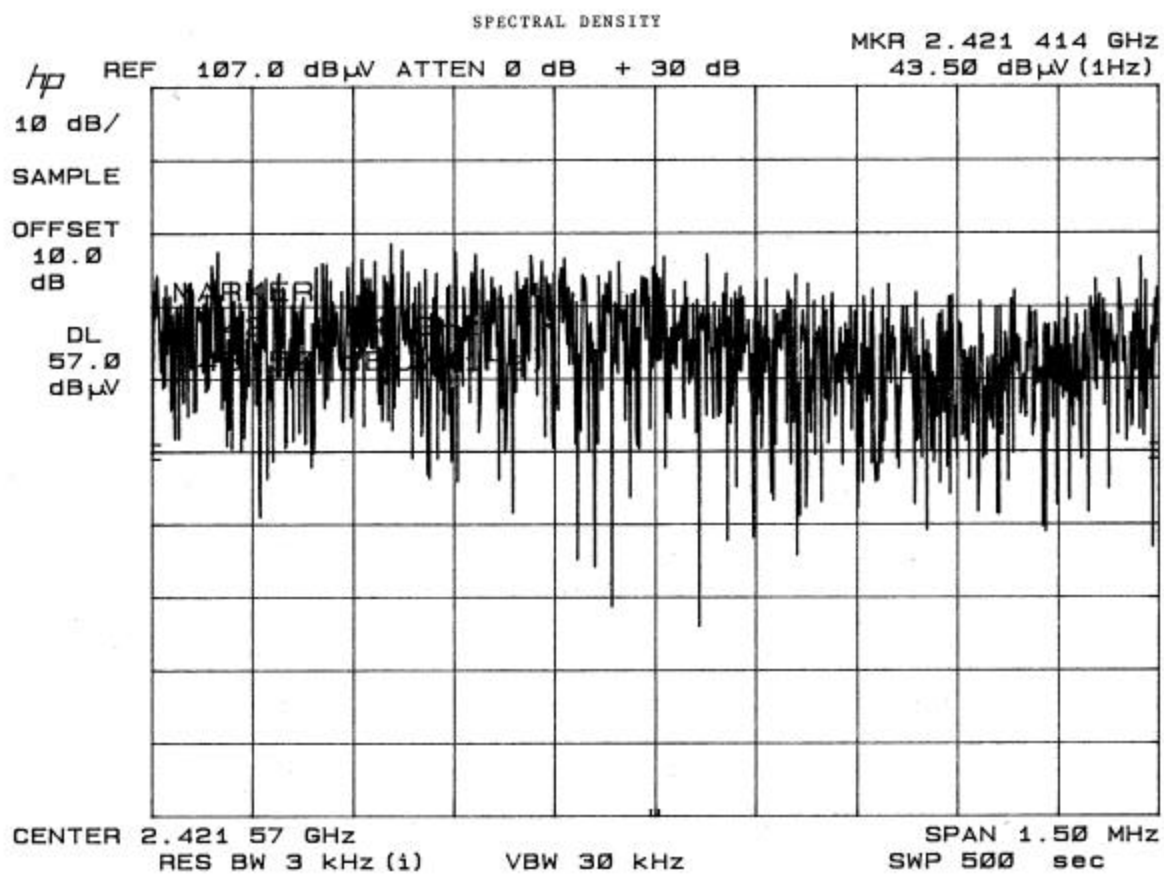
The level at 2421.41 MHz was 43.50 dBuV

-63.5 dBm
20.0 dB Attenuator
35.0 dB ACF

- 8.5 dBm

The UUT was measured in 3 places in the band; the worst case
being shown.

APPLICANT: WAVE WIRELESS NETWORKING
FCC ID: NCBSLXE2



APPLICANT: WAVE WIRELESS NETWORKING

FCC ID: NCBSLXE2

REPORT #: T:\W\Wave_NCB\125UT2\125UT2TestReport.doc

Page 20 of 20