

TABLE OF CONTENTS LIST

APPLICANT: WOOIL TELCOM CO., LTD.

FCC ID: OIZKF-310

TEST REPORT:

PAGE 1.....COVER SHEET - GENERAL INFORMATION & TECHNICAL DESCR.
PAGE 2.....FIELD STRENGTH OF SPURIOUS EMISSIONS
PAGE 3.....METHOD OF MEASURING RADIATED SPURIOUS EMISSIONS
PAGE 4.....LIST OF TEST EQUIPMENT

EXHIBITS CONTAINING:

EXHIBIT 1.....CLASS II PERMISSIVE CHANGE REQUEST LETTER
EXHIBIT 2.....POWER OF ATTORNEY LETTER
EXHIBIT 3A.....INTERNAL FRONT VIEW PHOTOGRAPH
EXHIBIT 3B.....INTERNAL REAR VIEW PHOTOGRAPH
EXHIBIT 4A-4B.....SCHEMATIC - WHOLE VIEW AND CLOSE UP VIEW

APPLICANT: WOOIL TELCOM CO., LTD.

FCC ID: OIZKF-310

DATE: 15 FEB. 2000

REPORT #: T:\CUS\W\WTC\WTC34K0\WTC34K0.RPT

PAGE: TABLE OF CONTENTS

GENERAL INFORMATION REQUIRED
FOR TYPE ACCEPTANCE

2.983 (a,b,c) W00IL TELCOM CO., LTD. will manufacture the
FCCID: 01ZKF-310 FAMILY RADIO SERVICES 14 CHANNEL
TRANSCEIVER in quantity, for use under FCC RULES
PART 95.

2.983 (d) TECHNICAL DESCRIPTION

2.983 (d) (1) Type of Emission: 10K0F3E
95.629

$$B_n = 2M + 2DK$$

$$M = 3000$$

$$D = 2.0K$$

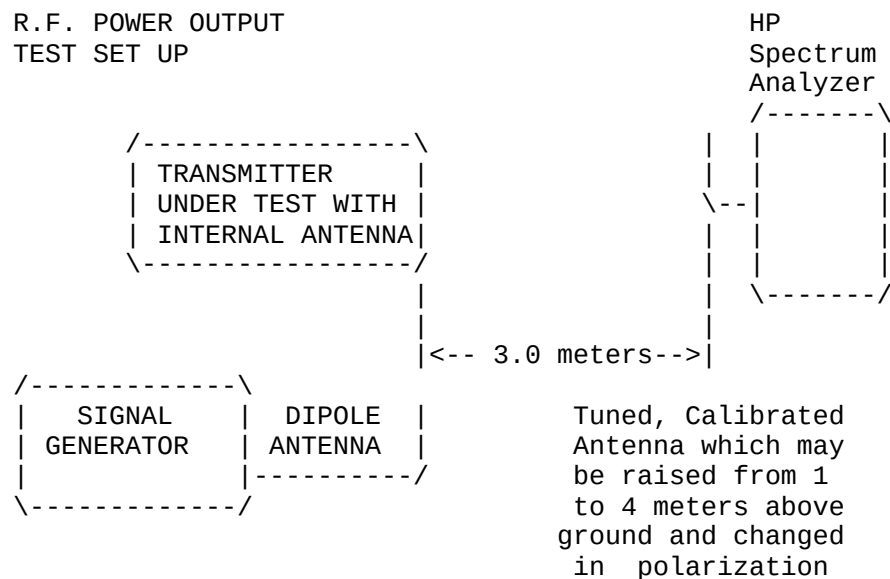
$$B_n = 2(3.0) + 2(2.0) = 10.0K$$

Authorized Bandwidth 12.5KHz

2.983 (d) (3) Power Output shall not exceed 0.500Watts effective
95.637 radiated power. There can be no provisions for
95.647 increasing the power.

2.983 (d) (4) Maximum Output Power Rating: 500 milliWatts
95.637 effective radiated power.

R.F. POWER OUTPUT
TEST SET UP



Equipment placed 1 meter above ground
on a rotatable platform.

APPLICANT: W00IL TELCOM CO., LTD.
FCC ID: 01ZKF-310
DATE: 15 FEB. 2000
REPORT #: T:\CUS\W\WTC\WTC34K0\WTC34K0.RPT
PAGE #: 1

2.993(a)(b)
95.635(b)(7)

UNWANTED RADIATION:

REQUIREMENTS: Emissions must be attenuated by at least the following below the output of the transmitter.

$$43 + 10\log(TP) = 43 + 10\log(0.5) = 40.00\text{dB}$$

TEST DATA:

EMISSION FREQ. MHz	METER READING @ 3m dBuV	COAX LOSS dB	ACF dB	FIELD STRNGTH dBuV/m	ATT. dBuV/m	MARGIN dB	ANT.
462.56	103.90	1.60	18.44	123.94	124.37	0.43	V
925.10	47.00	2.90	24.10	74.00	49.94	9.94	V
1387.65	48.00	1.00	25.55	74.55	49.39	9.39	V
1850.22	51.60	1.01	27.40	80.01	43.93	3.93	V
2312.80	25.20	1.08	28.78	55.06	68.88	28.88	H
2775.34	36.20	1.15	29.94	67.28	56.66	16.66	V
3237.34	37.70	1.22	31.09	70.01	53.93	13.93	V
3700.47	40.10	1.29	32.25	73.64	50.30	10.30	H
4163.03	33.30	1.35	33.18	67.84	56.10	16.10	H
4625.58	30.10	1.42	33.70	65.23	58.71	18.71	V

MARGIN = (Field strength of Fund - FS OF EMISSION)- 40dB

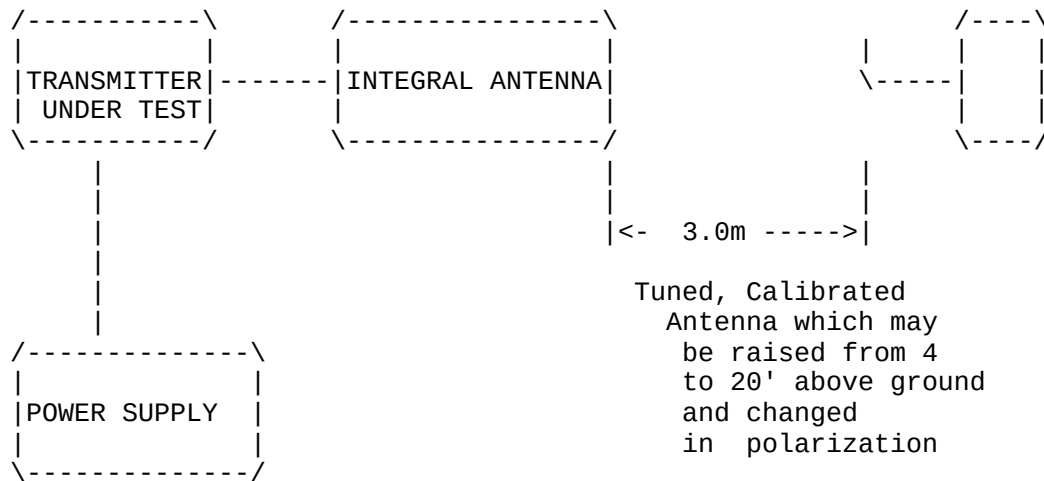
METHOD OF MEASUREMENT: The procedure used was C63.4-1992 for intentional radiators. The spectrum was scanned from 30 to at least the tenth harmonic of the fundamental using a HP model 8566B spectrum analyzer, an Eaton model 94455-1 Biconical Antenna, ElectroMetrics antennas models TDA, TDS-25-1, TDS-25-2 and RGA-180. Measurements were made at the open field test site of TIMCO ENGINEERING INC. located at 849 N.W. State Road 45, Newberry, FL 32669.

APPLICANT: WOOIL TELCOM CO., LTD.
FCC ID: OIZKF-310
DATE: 15 FEB. 2000
REPORT #: T:\CUS\W\WTC\WTC34K0\WTC34K0.RPT
PAGE #: 2

2.993(a)(b) UNWANTED RADIATION:
95.631(b)(8)(9)

Method of Measuring Radiated Spurious Emissions

Hewlett Packard
Spectrum
Analyzer
HP8566B



Equipment placed 4' above ground
on a rotatable platform.

APPLICANT: WOOIL TELCOM CO., LTD.
FCC ID: OIZKF-310
DATE: 15 FEB. 2000
REPORT #: T:\CUS\W\WTC\WTC34K0\WTC34K0.RPT
PAGE #: 3

TEST EQUIPMENT LIST

- 1._X_Spectrum Analyzer: HP 8566B-Opt 462, S/N 3138A07786, w/
preselector HP 85685A, S/N 3221A01400, Quasi-Peak Adapter
HP 85650A, S/N 3303A01690 & Preamplifier HP 8449B-OPT H02,
S/N 3008A00372 Cal. 10/17/99
- 2._X_Signal Generator: HP 8640B, S/N 2308A21464 Cal. 9/23/99
- 3.___Signal Generator: HP 8614A, S/N 2015A07428 Cal. 5/29/99
- 4.___Passive Loop Antenna: EMC0 Model 6512, 9KHz to 30MHz, S/N
9706-1211 Cal. 6/23/97
- 5._X_Biconnical Antenna: Eaton Model 94455-1, S/N 1057
- 6._X_Log-Periodic Antenna: Electro-Metrics Model EM-6950, S/N 632
- 7.___Dipole Antenna Kit: Electro-Metrics Model TDA-30/1-4, S/N 153
Cal. 11/24/99
- 8._X_Double-Ridged Horn Antenna: Electro-Metrics Model RGA-180,
1-18 GHz, S/N 2319 Cal. 4/27/99
- 9.___Horn 40-60GHz: ATM Part #19-443-6R
- 10.___Line Impedance Stabilization Network: Electro-Metrics Model
ANS-25/2, S/N 2604 Cal. 11/30/99
- 11.___Line Impedance Stabilization Network: Electro-Metrics Model
EM-7820, S/N 2682 Cal. 12/1/99
- 12._X_Temperature Chamber: Tenney Engineering Model TTRC, S/N 11717-7
- 13._X_AC Voltmeter: HP Model 400FL, S/N 2213A14499 Cal. 9/21/99
- 14.___Digital Multimeter: Fluke Model 8012A, S/N 4810047 Cal 9/21/99
- 15._X_Digital Multimeter: Fluke Model 77, S/N 43850817 Cal 9/21/99
- 16.___Oscilloscope: Tektronix Model 2230, S/N 300572 Cal 9/23/99
- 17.___Frequency Counter: HP Model 5385A, S/N 3242A07460 Cal 10/6/99
- 18._X_Special low loss cable was used above 1 GHz

APPLICANT: WOOIL TELCOM CO., LTD.

FCC ID: OIZKF-310

DATE: 15 FEB. 2000

REPORT #: T:\CUS\W\WTC\WTC34K0\WTC34K0.RPT

PAGE #: 4