

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 |
|------------------------------|---------------------|
| 2412.0 | 0.00 |
| 4824.0 | -76.11 |
| 7236.0 | -84.71 |
| 9648.0 | -95.81 |
| 12060.0 | -102.81 |
| 2437.0 | 0.00 |
| 4874.0 | -77.80 |
| 7311.0 | -80.30 |
| 9748.0 | -87.00 |
| 12185.0 | -100.00 |
| 2462.0 | 0.00 |
| 4924.0 | -84.30 |
| 7386.0 | -75.90 |
| 9848.0 | -87.40 |
| 12310.0 | -102.10 |

NOTE: THE SPECTRUM WAS SCANNED TO THE TENTH HARMONIC.

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15.247(c), 15.205 & 15.209(b) Field strength of spurious emissions:

REQUIREMENTS:

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

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:

| Tuned Frequency MHz | Emission Frequency MHz | Meter Reading dBuv | Ant. Polarity | Coax Loss dB | Correction Factor dB | Field Strength dBuv/m | Margin dB |
|---------------------------|------------------------------|--------------------------|------------------|--------------------|----------------------------|-----------------------------|--------------|
| 2,412.20 | 2,412.20 | 69.3 | H | 3.70 | 28.98 | 101.98 | 25.40 |
| 2,437.00 | 2,437.00 | 69.2 | H | 3.70 | 28.98 | 101.88 | 25.50 |
| 2,462.00 | 2,462.00 | 69.4 | H | 3.70 | 28.98 | 102.08 | 25.30 |

Antenna Gain
Intentional Radiator Emissions

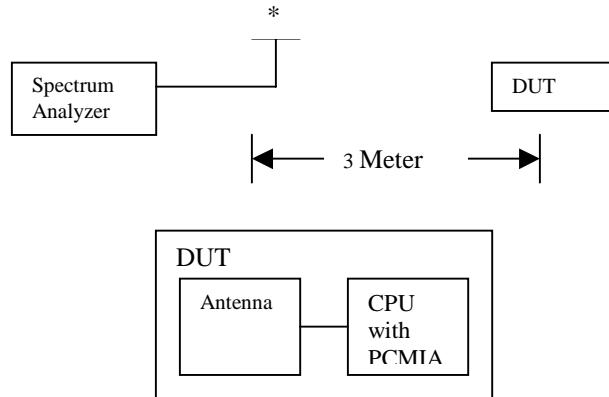
METHOD OF MEASUREMENT: The procedure used was ANSI STANDARD C63.4-1992 & the Guidance on Measurements for Direct Sequence Spread Spectrum Systems. Measurements were made at the open field test site of TIMCO ENGINEERING INC. located at 849 N.W. State Road, Newberry, FL 32669.

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2.993(a)(b)

2.993(a)(b) Continued Field_strength_of_spurious_emissions:

Method of Measuring Radiated Spurious Emissions



* Tuned, Calibrated
Antenna which may
be raised from 1-4 Meters
above ground
and changed in polarization.

Equipment placed 80 cm above ground
on a rotatable platform.

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APPLICANT: GENOTECH CO., LTD.

FCC ID: OM9GWL2400P

NAME OF TEST: RADIATED SPURIOUS EMISSIONS

RULES PART NO.: 15.109(a) - Class B Computing Device

REQUIREMENTS: 30-88 MHz 40.0 dBuV/m measured at 3 meters
88-216 MHz 43.5 dbuV/m
216-960 MHz 46.0 dbuV/m
ABOVE 960 MHz 54.0 dbuV/m

TEST

CONFIGURATION: DELL COMPUTER MODEL #: DIMENSION XPS M200S
DELL MONITOR FCC ID: AK8CPD155SFT1
IBM KEYBOARD P/NO. 1391401
MICROSOFT MOUSE FCC ID: C3KKMP3
EPSON EX-800 PRINTER FCC ID: BKM9A8P84PA

TEST DATA:

| EMISSION FREQUENCY MHz | METER READING AT 3 METERS dBuV | COAX LOSS dB | ANTENNA CORRECTION FACTOR | FIELD STRENGTH dBuV/m@3m | MARGIN dB | ANT. POL. |
|------------------------------|---|--------------------|---------------------------------|--------------------------------|--------------|--------------|
| 117.30 | 13.90 | 0.80 | 9.20 | 23.90 | 19.60 | V |
| 297.80 | 13.70 | 1.40 | 15.56 | 30.66 | 15.34 | V |
| 386.00 | 11.60 | 1.40 | 16.59 | 29.59 | 16.41 | V |
| 397.20 | 14.40 | 1.40 | 16.92 | 32.72 | 13.28 | H |

TEST PROCEDURE: ANSI STANDARD C63.4-1992 The spectrum was scanned from 30 to 1000 MHz. The unit was measured at Timco Engineering Inc. 849 N.W. State Road 45, Newberry, FL 32669.

TEST RESULTS: The unit DOES appear to meet the FCC requirements.

PERFORMED BY: Joe Scoglio DATE: May 17, 2001

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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).

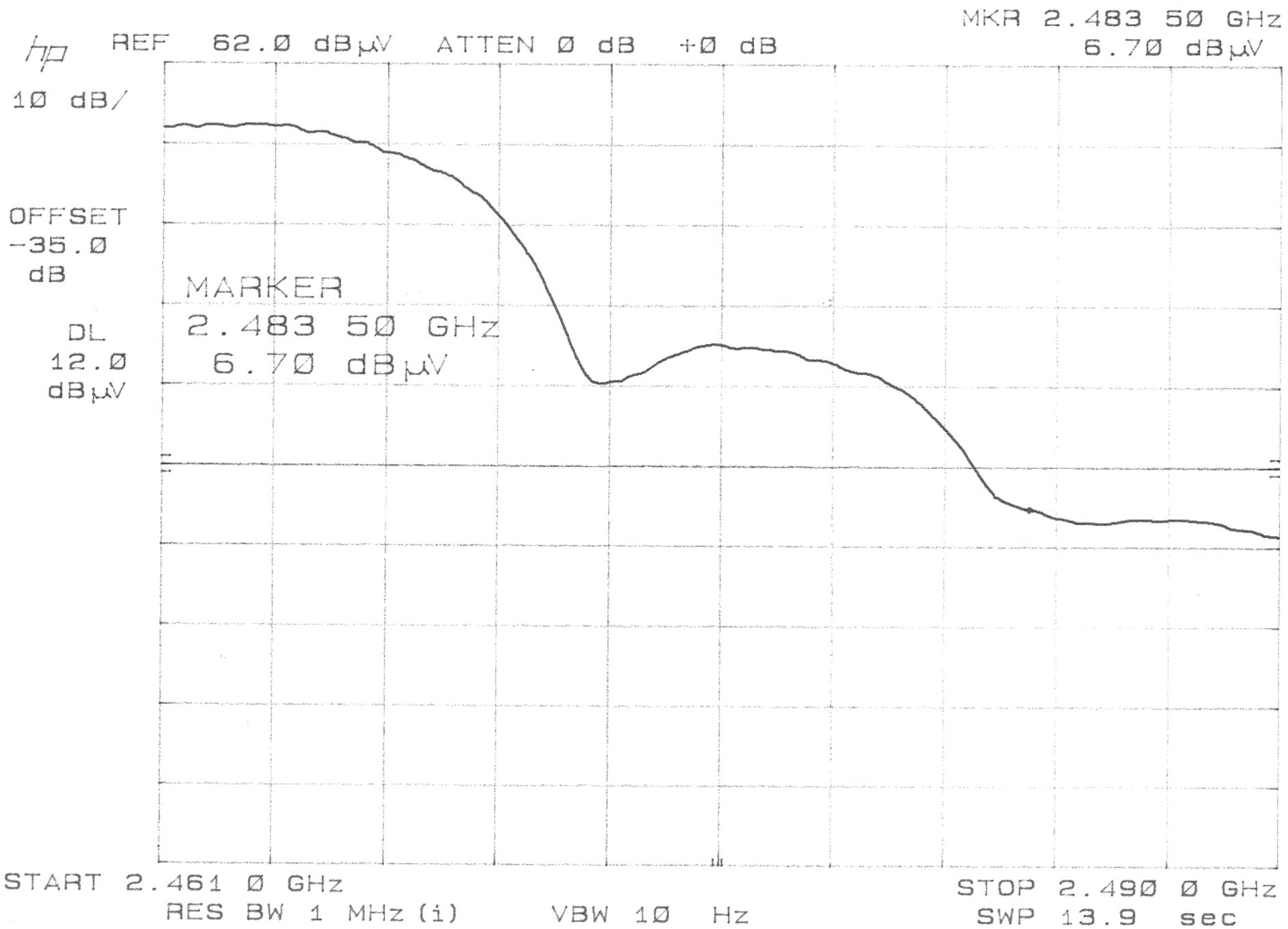
TEST PROCEDURE: An in band field strength measurement of the fundamental emissions using the RBW and detector function required by C63.4-2000 and FCC rules. The procedure was repeated with an average detector and a plot made. The calculated field strength in the adjacent restricted band is presented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

-100.30 dBm - from Plot
+ 29.21 dB - ACF
+ 1.1 dB - Coax Loss
+ 10.0 dB -

- 59.99 dBm
+107.00

47.01 dBuV

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APPLICANT: GENOTECH CO., LTD.

FCC ID: OM9GWL2400P

NAME OF TEST: POWER SPECTRAL DENSITY

RULES PART NUMBER: 15.247(d)

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

DATA: The plots are on the following pages as 16-18.

| | 2437.00 MHz | 2417.00 MHz | 2472.48 MHz |
|--------------|---|--|--|
| From Plot: | - 66.40 dBm + 20.00 dB ATT + 35.00 CF | -66.90 dBm +20.00 dB ATT +35.00 CF | -66.10 dBm +20.00 dB ATT +35.00 CF |
| Calculation: | - 11.40 dBm | -11.90 dBm | -11.10 dBm |

NAME OF TEST: PROCESSING GAIN

RULES PART NUMBER: 15.247(e)

REQUIREMENTS:

DATA: The processing gain information supplied by the manufacturer is 10.0dB.

See Pages 8A-8B for processing gain test methods and data.

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This figure is a spectrum analysis plot. The vertical axis is labeled 'hp' and has a scale of '10 dB/SAMPLE OFFSET 10.0 dB'. The horizontal axis is labeled 'CENTER 2.437 00 GHz' and 'SPAN 1.50 MHz'. The plot shows a noisy signal with a prominent marker at 2.436499 GHz, which is labeled 'MARKER 2.436499 GHz -66.40 dBm (1Hz)'.

