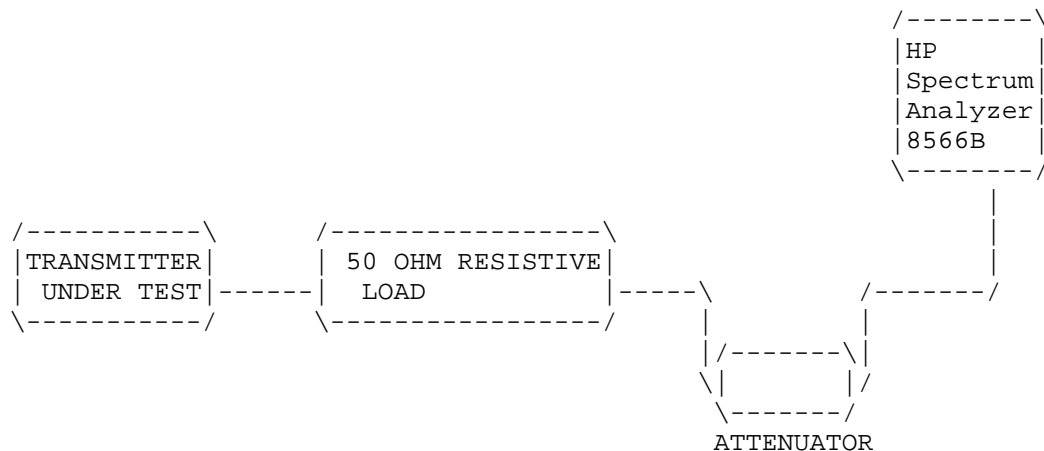


15.247(c) Method of Measuring RF Conducted Spurious Emissions



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
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.

APPLICANT: GENOTECH CO., LTD.
 FCCID: OM9GWL2400P
 REPORT #: G\GENOTECH\334K1\334K1RPT.doc
 PAGE #: 9

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 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

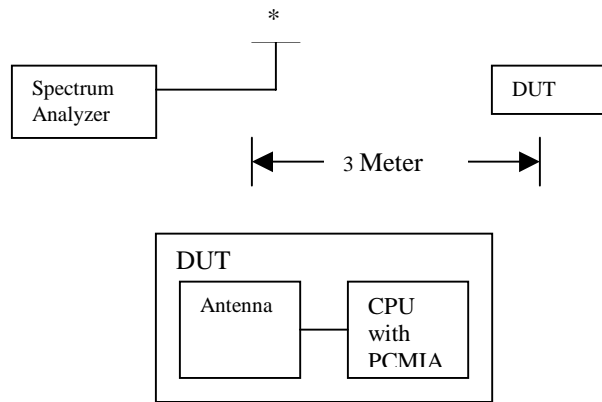
METHOD OF MEASUREMENT: The procedure used was ANSI STANDARD C63.4-1992 & the Guidance on Measurements for Direct Sequence Spread Spectrum Systems. Measurements were made at the open field test site of TIMCO ENGINEERING INC. located at 849 N.W. State Road, Newberry, FL 32669.

APPLICANT: GENOTECH CO., LTD.
FCCID: OM9GWL2400P
REPORT #: G\GENOTECH\334K1\334K1RPT.doc
PAGE #: 10

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.

APPLICANT: GENOTECH CO., LTD.
FCCID: OM9GWL2400P
REPORT #: G\GENOTECH\334K1\334K1RPT.DOC
PAGE #: 11

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 dB	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

APPLICANT: GENOTECH CO., LTD.

FCCID: OM9GWL2400P

REPORT #: G\GENOTECH\334K1\334K1RPT.DOC

PAGE #: 12

APPLICANT: GENOTECH CO., LTD.

FCC ID: OM9GWL2400P

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 -
<hr/>
- 59.99 dBm
+107.00
<hr/>
47.01 dBuV

APPLICANT: GENOTECH CO., LTD.

FCCID: OM9GWL2400P

REPORT #: G\GENOTECH\334K1\334K1RPT.DOC

PAGE #: 13

hp REF 62.0 dB μ V ATTN 0 dB +0 dB

MKR 2.483 50 GHz
6.70 dB μ V

10 dB/

OFFSET
-35.0
dB

DL
12.0
dB μ V

MARKER
2.483 50 GHz
6.70 dB μ V

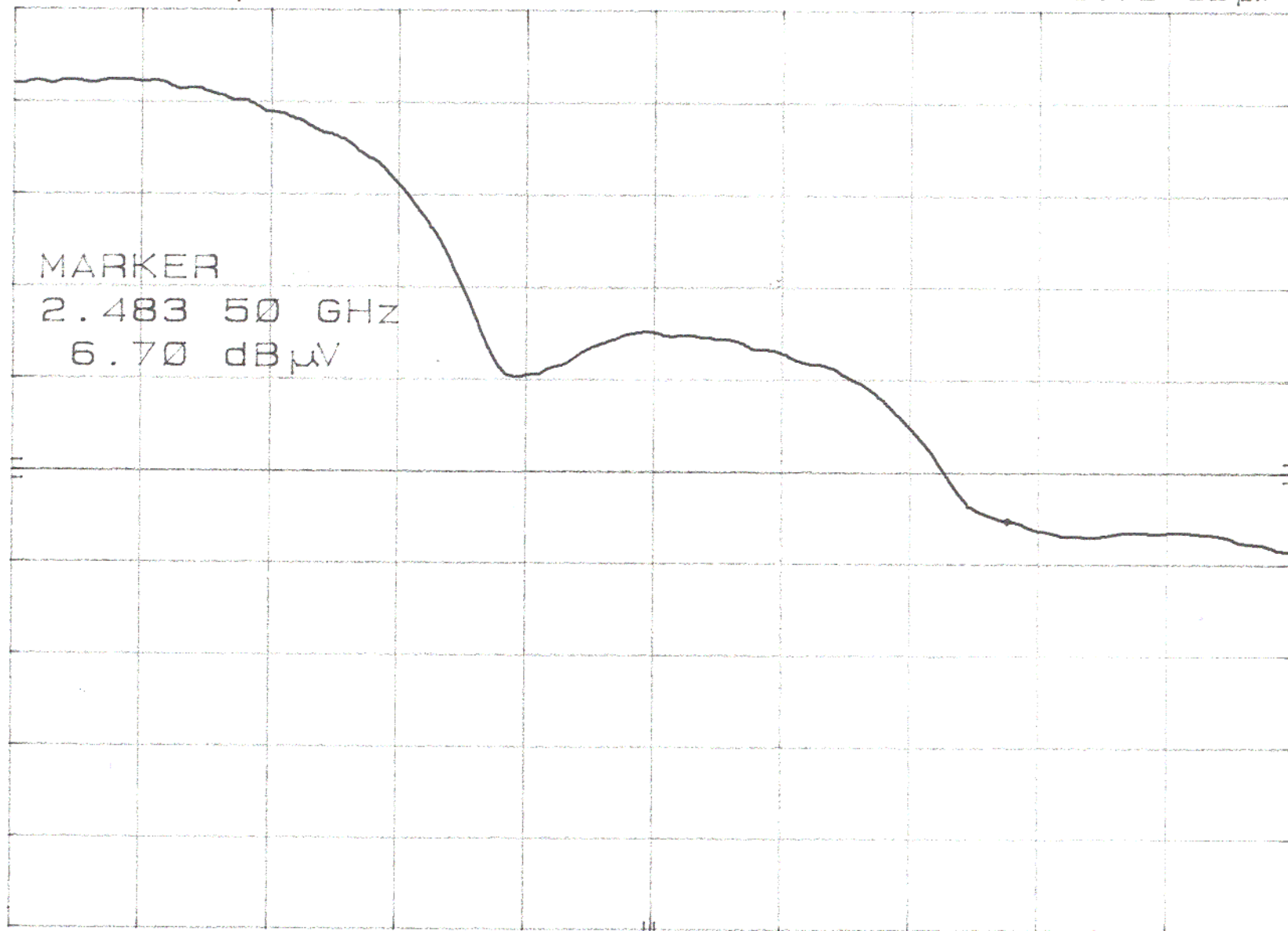
START 2.461 0 GHz

RES BW 1 MHz (i)

VBW 10 Hz

STOP 2.490 0 GHz

SWP 13.9 sec



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.

The level at	2437.00 MHz	2417.00 MHz	2472.48 MHz
From Plot:	- 66.40 dBm	-66.90 dBm	-66.10 dBm
	+ 20.00 dB ATT	+20.00 dB ATT	+20.00 dB ATT
	+ 35.00 CF	+35.00 CF	+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.

APPLICANT: GENOTECH CO., LTD.

FCCID: OM9GWL2400P

REPORT #: G\GENOTECH\334K1\334K1RPT.DOC

PAGE #: 15

hp

REF

0.0 dBm

ATTEN 0 dB

+ 30 dB

MKR 2.436 499 GHz

-66.40 dBm (1Hz)

10 dB/

SAMPLE

OFFSET

10.0

dB

MARKER

2.436 499 GHz

-66.40 dBm (1Hz)

CENTER 2.437 00 GHz

RES BW 3 kHz (1)

VBW 30 kHz

SPAN 1.50 MHz

SWP 500 sec

hp

REF

0.0 dBm

ATTEN 0 dB

+ 30 dB

MKR 2.417 182 GHz

-66.90 dBm (1Hz)

10 dB/

SAMPLE

OFFSET

10.0

dB

MARKER

2.417 182 GHz

-66.90 dBm (1Hz)

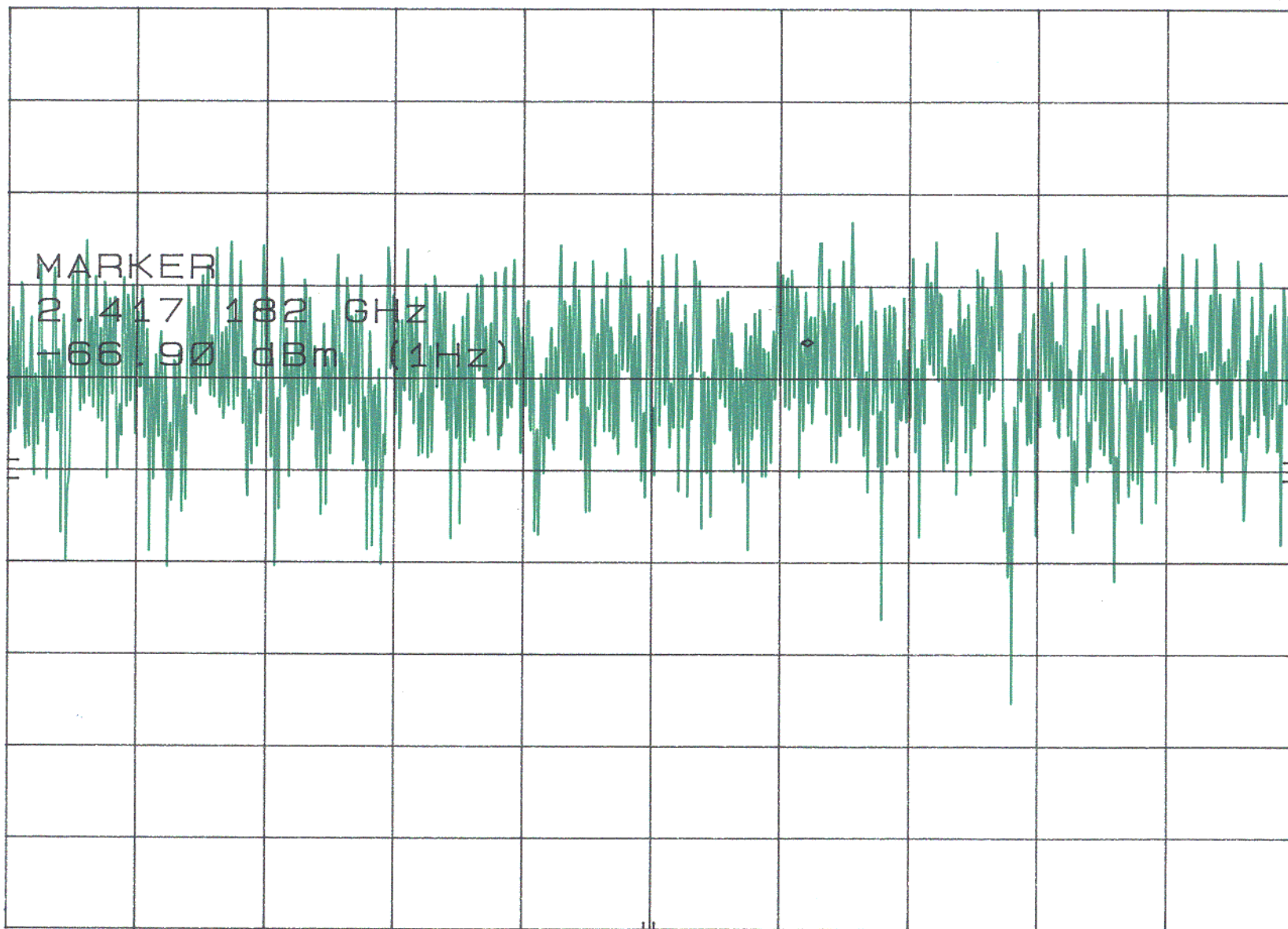
CENTER 2.417 00 GHz

RES BW 3 kHz (1)

VBW 30 kHz

SPAN 1.50 MHz

SWP 500 sec



hp

REF

0.0 dBm

ATTEN 0 dB

+ 30 dB

MKR 2.472 218 GHz

-66.10 dBm (1Hz)

10 dB/

SAMPLE

OFFSET

10.0

dB

MARKER

2.472 218 GHz

-66.10 dBm (1Hz)

CENTER 2.472 00 GHz

RES BW 3 kHz (i)

VBW 30 kHz

SPAN 1.50 MHz

SWP 500 sec