# FCC PART 90 TYPE APPROVAL
# EMI MEASUREMENT AND TEST REPORT

For

## SHENZHEN HYT SCIENCE&TECHNOLOGY CO., LTD

R2-High-Tech Industrial Park
ShenZhen, China

**FCC ID: R74TM-800V**

| **This Report Concerns:** | **Equipment Type:** |
|---|---|
| ☒ Original Report | Mobile Radio |

| | |
|---|---|
| **Test Engineer:** | Hang Tan |
| **Report No.:** | R0505025 |
| **Report Date:** | 2005-06-08 |
| **Reviewed By:** | Daniel Deng |
| **Prepared By:** | Bay Area Compliance Laboratory Corporation<br>230 Commercial Street<br>Sunnyvale, CA 94085<br>Tel: (408) 732-9162<br>Fax: (408) 732 9164 |

**Note:** The test report is specially limited to the above company and this particular sample only. It may not be duplicated without prior written consent of Bay Area Compliance Laboratory Corporation. This report **must not** be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the US Government.

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# GENERAL INFORMATION

## Product Description for Equipment Under Test (EUT)

The *Shenzhen HYT Science&Technology Co.,Ltd's* FCC ID: *R74TM-800V* or the "EUT" as referred to in this report is a Two-way Radio, which measures approximately 17.8cmL x 17.5cmW x 5.6cmH.

**The test data gathered are from production sample serial number 6927404380023 provided by the manufacturer.*

## Objective

This type approval report is prepared on behalf of *Shenzhen HYT Science&Technology Co.,Ltd* in accordance with Part 2 and Part 90 of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine compliance with FCC rules for output power, modulation characteristic, occupied bandwidth, spurious emission at antenna terminal, frequency stability, transcient frequency behavior and radiated margin.

## Related Submittal(s)/Grant(s)

No Related Submittals

## Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following individual parts:

Part 90 – Private Land Mobile Radio Service

Applicable Standards: TIA EIA 137-A, TIA EIA 98-C, TIA/EIA-603, ANSI 63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## Test Facility

The Open Area Test site used by Bay Area Compliance Laboratory Corporation to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Sunnyvale, California, USA.

Test site at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200167-0). The current scope of accreditations is attached hereinafter and can also be found at
http://ts.nist.gov/ts/htdocs/210/214/scopes/2001670.htm

# SYSTEM TEST CONFIGURATION

## Justification

The host system was configured for testing according to TIA/EIA-603.

The EUT was tested in the normal (native) operating mode to represent *worst*-case results during the final qualification test.

## Block Diagram

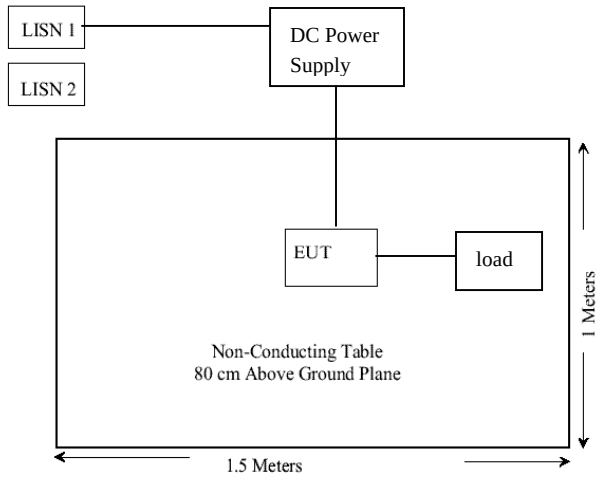
Please refer to Exhibit D.

## Equipment Modifications

No modifications were made to the EUT.

## Test Setup Block Diagram

The EUT is a standalone device.



# SUMMARY OF TEST RESULTS

| FCC RULE | DESCRIPTION OF TEST | RESULT |
|---|---|---|
| §1.1310<br>§2.1093 | RF Output Power | N/A |
| § 2.1046 | Conducted Output Power | Compliant |
| § 2.1047<br>§ 90.207 | Modulation Characteristics | Compliant |
| § 2.1049<br>§ 90.209 | Emission, Occupied Bandwidth | Compliant |
| § 2.1051<br>§ 90.210 | Spurious emissions at antenna terminals | Compliant |
| § 2.1053<br>§ 90.210 | Field strength of spurious radiation | Compliant |
| § 2.1055<br>§ 90.213 | Frequency stability vs. temperature<br>Frequency stability vs. voltage | Compliant |
| § 90.214 | Transient Frequency Behavior | Compliant |

# §2.1046 - CONDUCTED OUTPUT POWER

## Provision Applicable

Per FCC §2.1046 and §90.205: maximum ERP is dependent upon the station's antenna HAAT and required service area.

## Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuator.

## Test Equipment

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|---|---|---|---|---|
| HP | Analyzer, Spectrum | 8565EC | 3946A00131 | 2004-08-06 |
| Hewlett Packard | Plotter | HP7470A | N/A | N/R |

* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

## Environmental Conditions

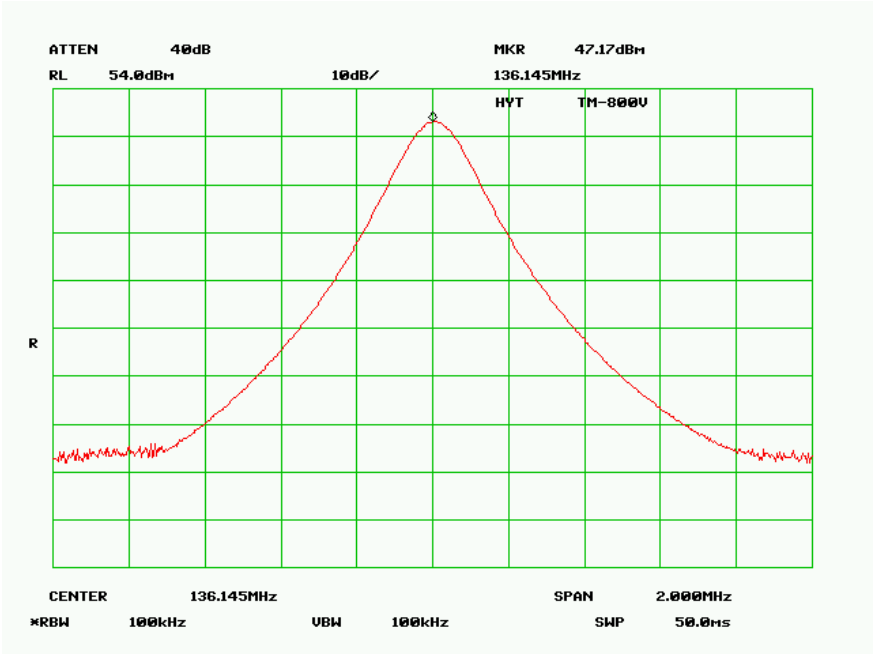
| | |
|---|---|
| Temperature: | 23° C |
| Relative Humidity: | 55% |
| ATM Pressure: | 1021 mbar |

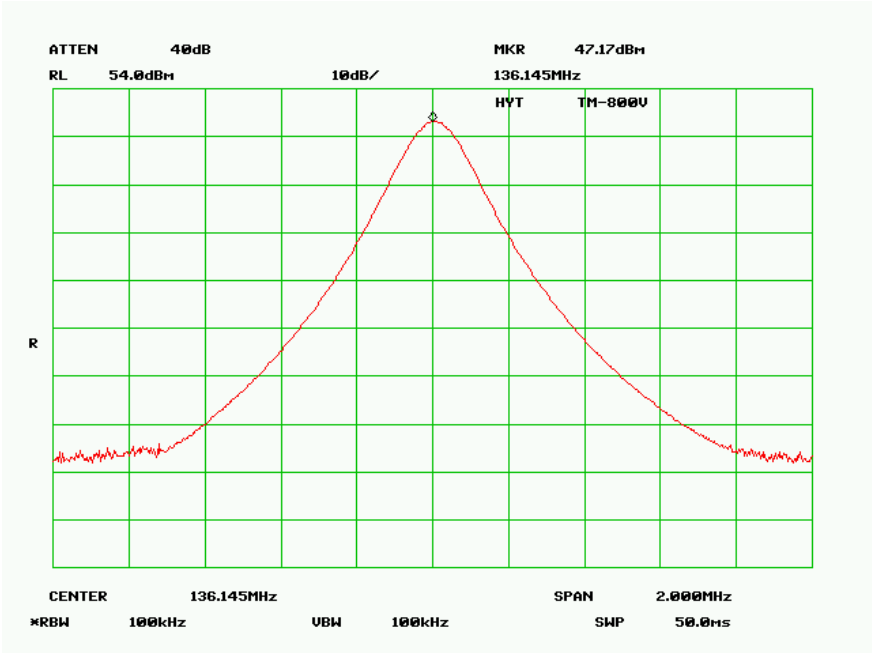
*The testing was performed by Hang Tan on 2005-05-13.*

## Test Results

| CH | Frequency Spacing (kHz) | Frequency (MHz) | Output Power in dBm | Output Power in W |
|---|---|---|---|---|
| 4 | 12.5 | 136.145 | 47.17 | 52.119 |
| 1 | 25 | 136.145 | 47.17 | 52.119 |

Note: The power output may depend on the intended use of the EUT. For all tests, the EUT was set to maximum conditions.


ATTEN 40dB
MKR 47.17dBm
RL 54.0dBm
10dB/
136.145MHz
HYT TM-800V
R
CENTER 136.145MHz
SPAN 2.000MHz
*RBW 100kHz
VBW 100kHz
SWP 50.0ms


ATTEN 40dB
MKR 47.17dBm
RL 54.0dBm
10dB/
136.145MHz
HYT TM-800V
R
CENTER 136.145MHz
SPAN 2.000MHz
*RBW 100kHz
VBW 100kHz
SWP 50.0ms

# §2.1047, §90.207 - MODULATION CHARACTERISTIC

## Applicable Standard

§2.1047 & §90.205:

(a) Equipment which utilizes voice modulated communication shall show the frequency response of the audio modulating circuit over a range of 100 to 5000Hz. for equipment which is required to have a low pass filter, the frequency response of the filter, or all of the circuitry installed between the modulation limited and the modulated stage shall be supplied.

(b) Equipment which employs modulation limiting, a curve showing the percentage of modulation versus the modulation input voltage shall be supplied.

## Test Procedure

Test Method: TIA/EIA-603 2.2.3

## Test Equipment

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|---|---|---|---|---|
| HP | Spectrum Analyzer | 8565EC | 3946A00131 | 2004-08-06 |
| Hewlett Packard | Modulation Analyzer | 8901A | 2026A00847 | 2004-08-19 |
| Nanyan | Audio Generator | NY2201 | 420 | N/R |

* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

## Environmental Conditions

| | |
|---|---|
| Temperature: | 24° C |
| Relative Humidity: | 40% |
| ATM Pressure: | 1010mbar |

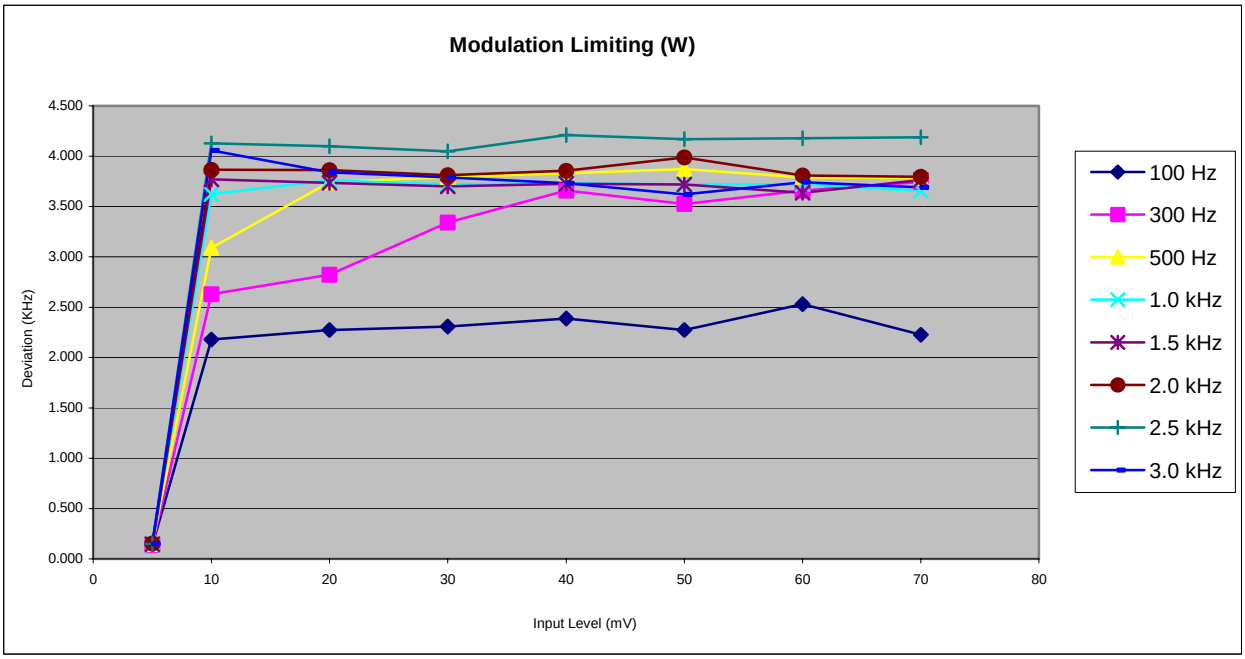
*The testing was performed by Hang Tan on 2005-06-01.*

## Test Results

The plot(s) of modulation characteristic is presented hereinafter as reference.

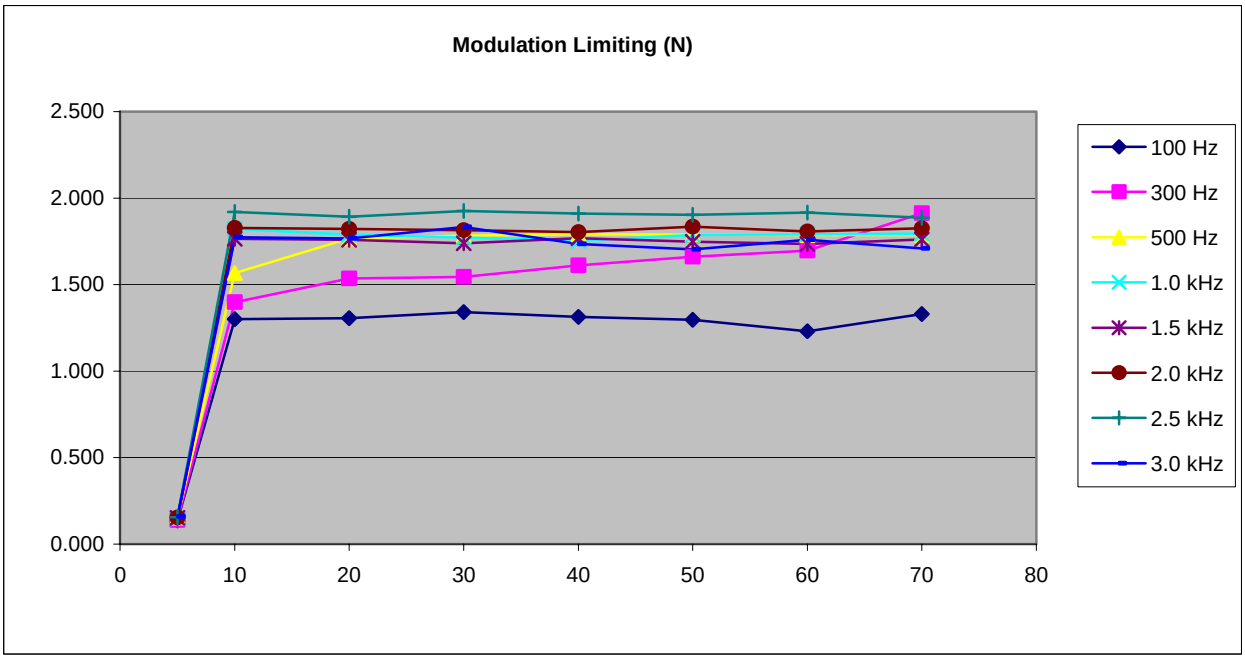
**Channel 2 - 155.15 MHz, High power, Wide**

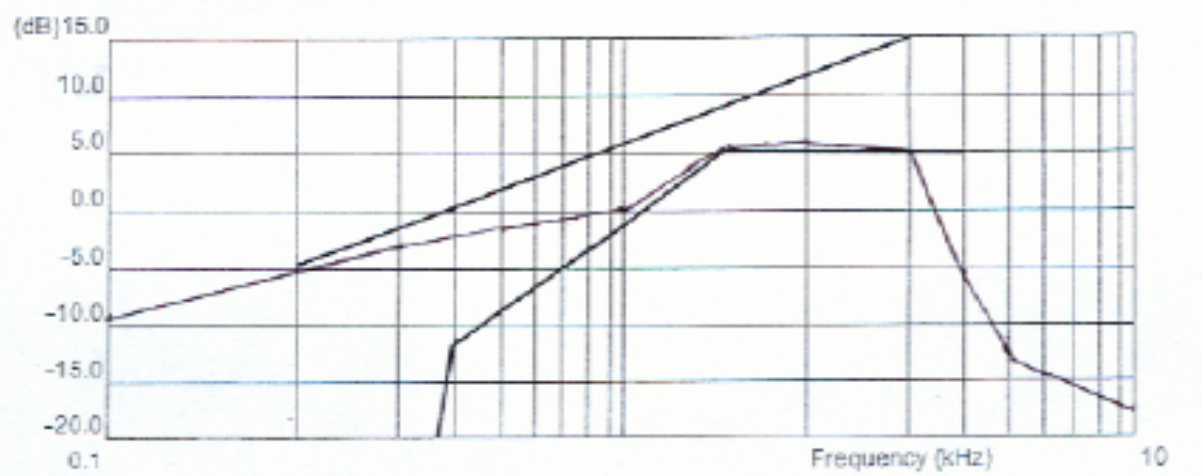
| Input (mV) | 100 Hz | 300 Hz | 500 Hz | 1.0 kHz | 1.5 kHz | 2.0 kHz | 2.5 kHz | 3.0 kHz |
|---|---|---|---|---|---|---|---|---|
| 5 | 0.136 | 0.137 | 0.145 | 0.140 | 0.146 | 0.152 | 0.149 | 0.148 |
| 10 | 2.179 | 2.630 | 3.091 | 3.623 | 3.769 | 3.864 | 4.130 | 4.060 |
| 20 | 2.275 | 2.822 | 3.742 | 3.759 | 3.734 | 3.863 | 4.100 | 3.840 |
| 30 | 2.310 | 3.342 | 3.792 | 3.720 | 3.700 | 3.810 | 4.050 | 3.790 |
| 40 | 2.389 | 3.660 | 3.831 | 3.733 | 3.724 | 3.855 | 4.210 | 3.730 |
| 50 | 2.274 | 3.524 | 3.870 | 3.718 | 3.720 | 3.990 | 4.170 | 3.620 |
| 60 | 2.530 | 3.658 | 3.789 | 3.722 | 3.636 | 3.807 | 4.180 | 3.740 |
| 70 | 2.226 | 3.743 | 3.782 | 3.655 | 3.764 | 3.795 | 4.190 | 3.690 |

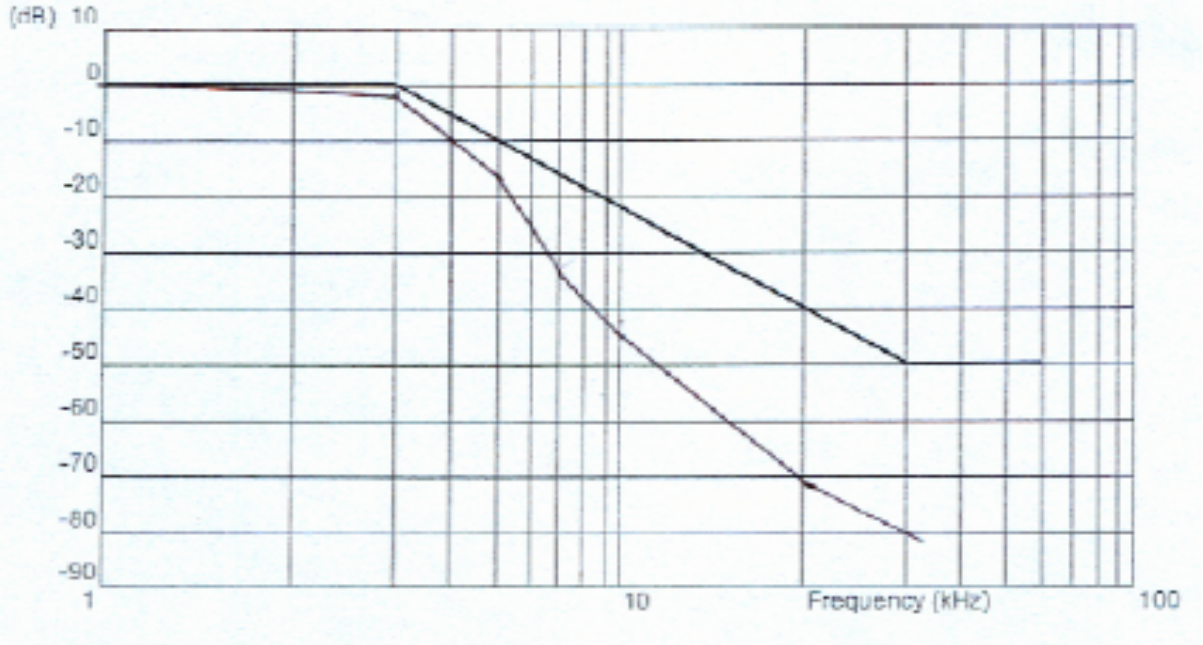


**Channel 5 - 155.15 MHz, High power, Narrow**

| Input (mV) | 100 Hz | 300 Hz | 500 Hz | 1.0 kHz | 1.5 kHz | 2.0 kHz | 2.5 kHz | 3.0 kHz |
|---|---|---|---|---|---|---|---|---|
| 5 | 0.137 | 0.138 | 0.153 | 0.148 | 0.152 | 0.154 | 0.156 | 0.158 |
| 10 | 1.301 | 1.399 | 1.567 | 1.822 | 1.765 | 1.828 | 1.920 | 1.774 |
| 20 | 1.306 | 1.535 | 1.767 | 1.789 | 1.759 | 1.822 | 1.892 | 1.767 |
| 30 | 1.341 | 1.545 | 1.783 | 1.772 | 1.738 | 1.815 | 1.925 | 1.833 |
| 40 | 1.313 | 1.612 | 1.790 | 1.754 | 1.768 | 1.803 | 1.911 | 1.735 |
| 50 | 1.297 | 1.662 | 1.789 | 1.787 | 1.748 | 1.835 | 1.904 | 1.704 |
| 60 | 1.230 | 1.697 | 1.787 | 1.790 | 1.735 | 1.807 | 1.916 | 1.759 |
| 70 | 1.330 | 1.912 | 1.787 | 1.794 | 1.760 | 1.825 | 1.887 | 1.710 |




(dB) 15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
0.1
Frequency (kHz)
10


(dB) 10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
1
10
Frequency (kHz)
100

# §2.1049, and § 90.209 – OCCUPIED BANDWIDTH

## Applicable Standard

§2.1049, §90.209 and §90.210

*12.5kHz bandwidth:*
For any frequency removed from the center of the authorized bandwidth $f_0$ to 5.625kHz removed from $f_0$, 0dB.

On any frequency removed from the center of the authorized bandwidth by a displacement frequency ($f_d$ in kHz) of more than 5.626kHz but no more than 12.5kHz, at least 7.27 ($f_d$ –2.88kHz) dB.

On any frequency removed from the center of the authorized bandwidth by a displacement frequency ($f_d$ in kHz) of more than 12.5kHz at least:

50+10logP=50+10log(5.21)=57.17dB

*25kHz bandwidth:*
For any frequency removed from the center of the assigned channel by more than 50 percent up to and including 100 percent of the authorized bandwidth, at least 25 dB.

On any frequency removed from the center of the assigned channel by more than 100 percent up to and including 250 percent, at least 35 dB.

On any frequency removed from the center of the assigned channel by more than 250 percent at least:

43+10logP=43+10log(5.21)=50.17dB

The resolution bandwidth was 300Hz or greater for measuring up to 250kHz from the edge of the authorized frequency segment, and 30kHz or greater for measuring more than 250kHz from the authorized frequency segment.

## Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 300 Hz and the spectrum was recorded in the frequency band ±50 KHz from the carrier frequency.

## Test Equipment

| Manufacturer | Description | Model No. | Serial No. | Calibration Date |
|---|---|---|---|---|
| HP | Spectrum Analyzer | 8565EC | 3946A00131 | 2004-08-06 |
| Hewlett Packard | Plotter | HP7470A | N/A | N/A |
| Nanyan | Audio Generator | NY2201 | 00042 | N/A |

* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

## Environmental Conditions

| | |
|---|---|
| Temperature: | 24° C |
| Relative Humidity: | 40% |
| ATM Pressure: | 1010mbar |

*The testing was performed by Hang Tan on 2005-06-01.*

## Test Results

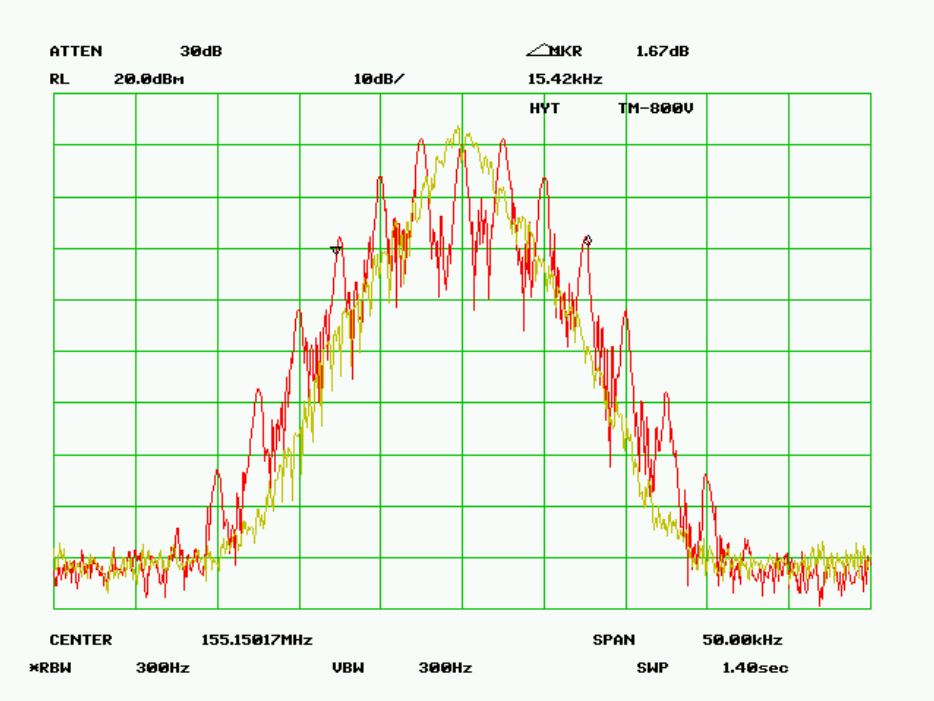
Please refer to the hereinafter plots.

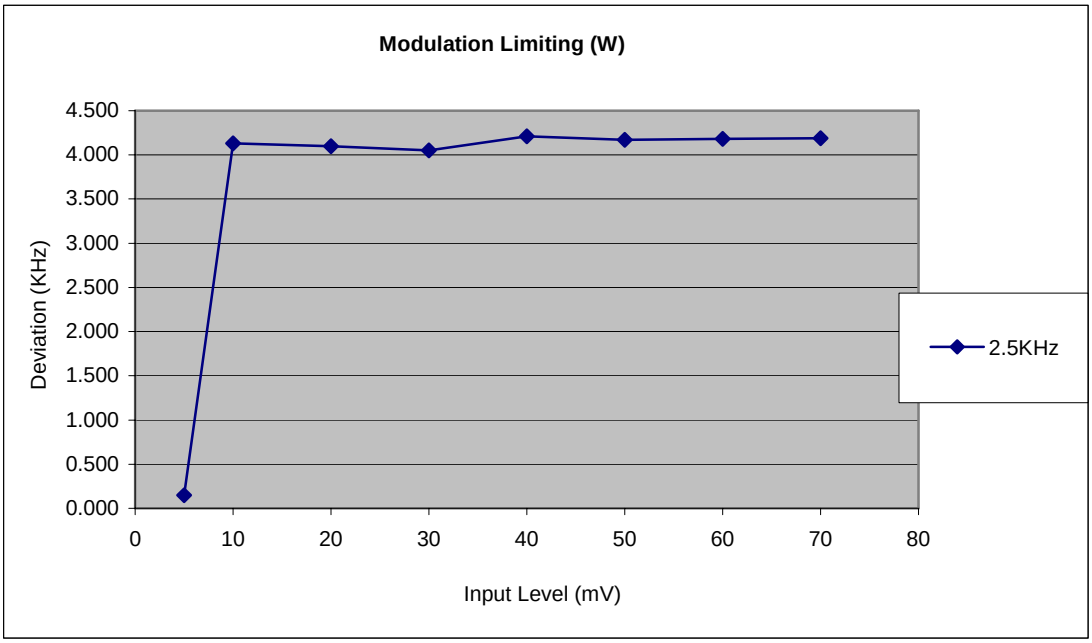
Emission Designator:

For 12.5KHz Channel Spacing: 2M+2D = 2x3+2x2.5 = 11K0F3E

For 25 KHz Channel Spacing: 2M+2D = 2x3+2x5 = 16K0F3E

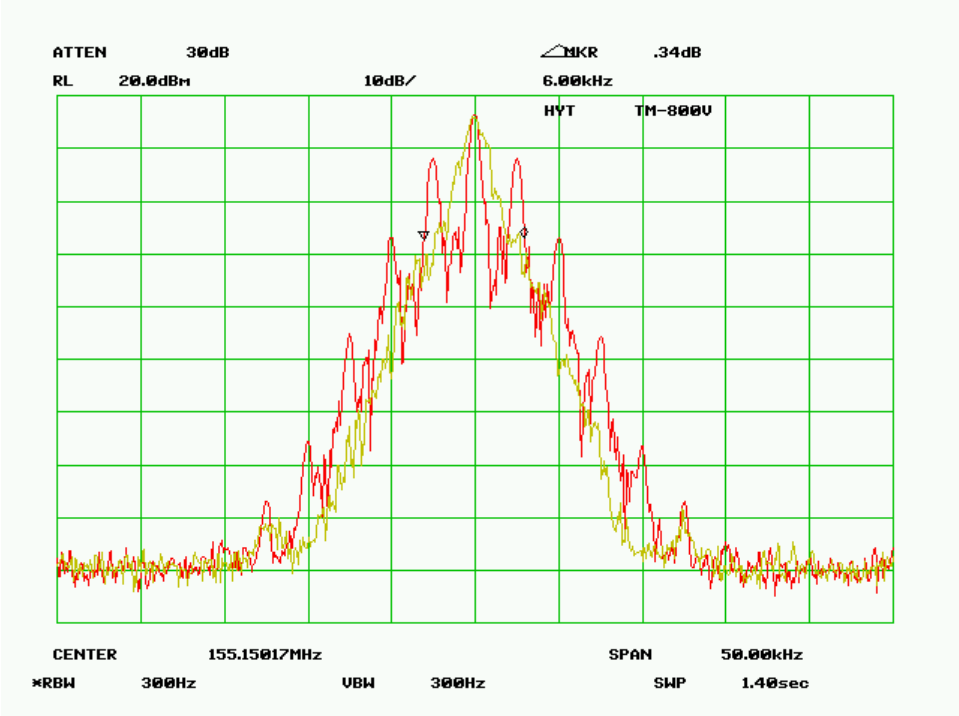
Channel 2 - 155.15 MHz, High power, Wide

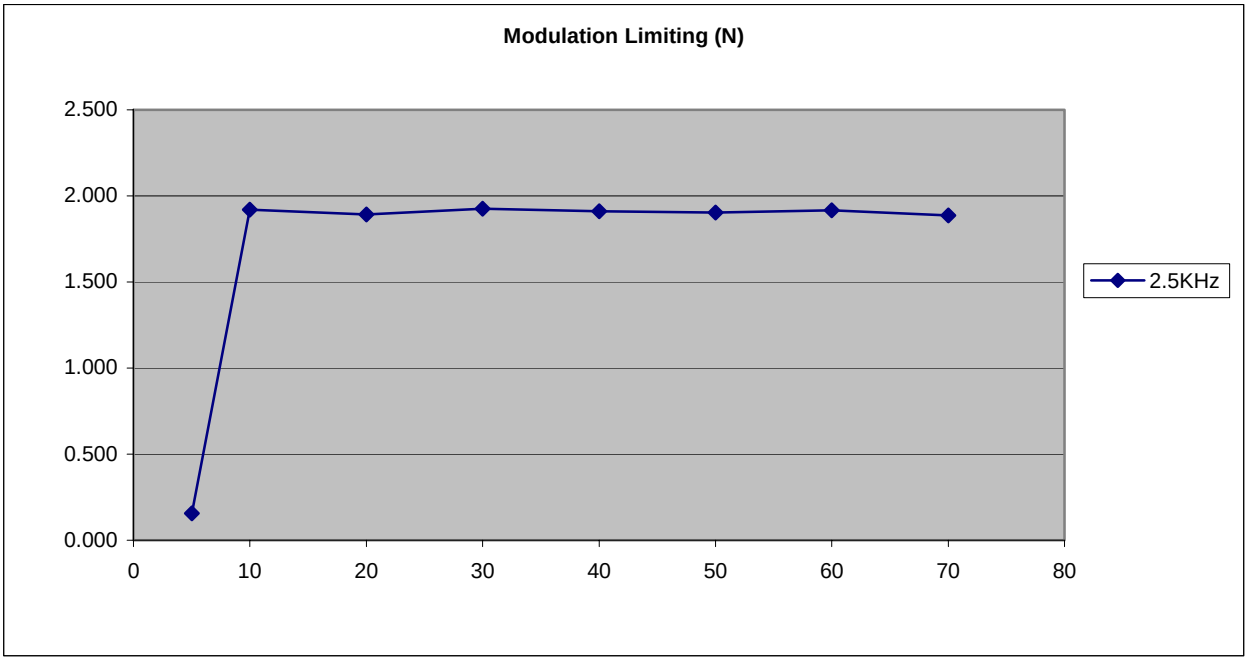





| Input (mV) | 2.5KHz |
|---|---|
| 5 | 0.149 |
| 10 | 4.130 |
| 20 | 4.100 |
| 30 | 4.050 |
| 40 | 4.210 |
| 50 | 4.170 |
| 60 | 4.180 |
| 70 | 4.190 |

**Channel 5 - 155.15 MHz, High power, Narrow**



| Input (mV) | 2.5KHz |
|---|---|
| 5 | 0.156 |
| 10 | 1.920 |
| 20 | 1.892 |
| 30 | 1.925 |
| 40 | 1.911 |
| 50 | 1.904 |
| 60 | 1.916 |
| 70 | 1.887 |

# §2.1051 and §90.210 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

## Applicable Standard

§2.1051and §90.210 (25kHz bandwidth only)

On any frequency removed from the center of the assigned channel by more than 250 percent at least:

43+10logP=43+10log(5.21)=50.17dB

§90.210 (12.5kHz bandwidth only)

On any frequency removed from the center of the authorized bandwidth by a displacement frequency ($f_d$ in kHz) of more than 12.5kHz at least:

50+10logP=50+10log(5.21)=57.17dB

## Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz. Sufficient scans were taken to show any out of band emissions up to $10^{th}$ harmonic.

## Test Equipment

| Manufacturer | Description | Model No. | Serial No. | Calibration Date |
|---|---|---|---|---|
| HP | Spectrum Analyzer | 8565EC | 3946A00131 | 2004-08-06 |

* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

## Environmental Conditions

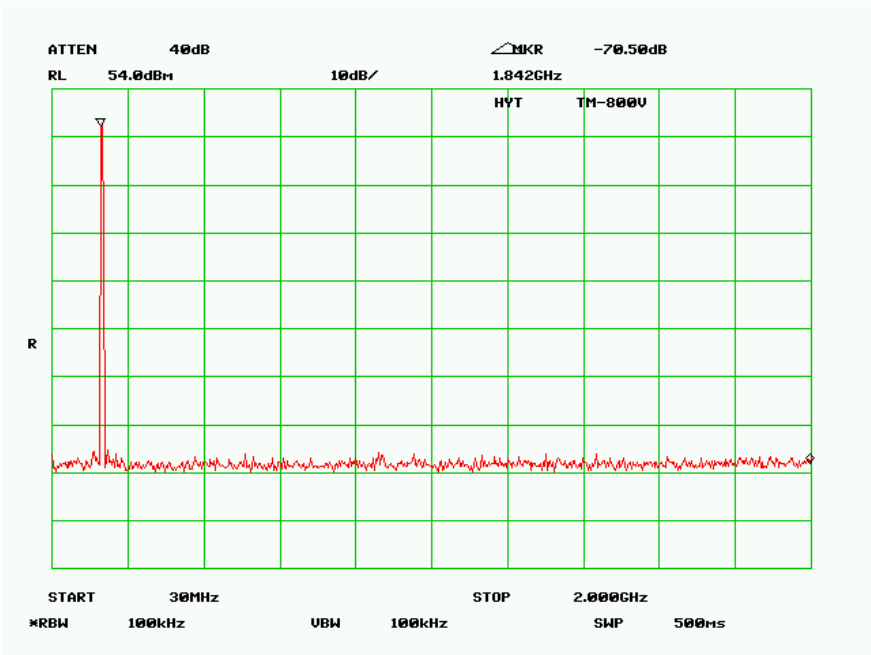
| | |
|---|---|
| Temperature: | 23° C |
| Relative Humidity: | 55% |
| ATM Pressure: | 1021 mbar |

*The testing was performed by Hang Tan on 2005-05-13.*

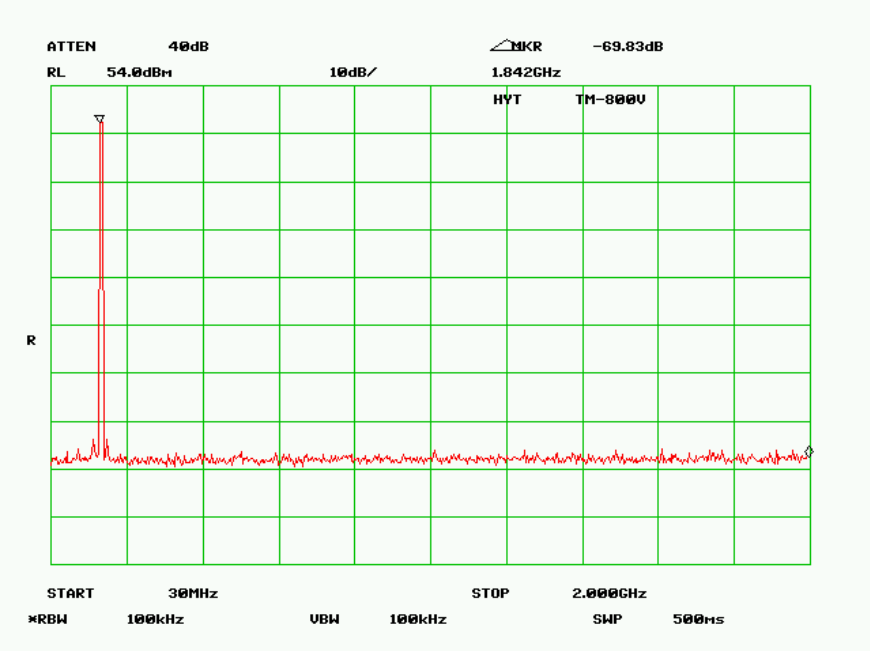
## Test Results

Please refer to the hereinafter plots.

Channel 2 - 155.15 MHz, High power, Wide




Channel 5 - 155.15 MHz, High power, Narrow



# §2.1053 and §90.210 - RADIATED SPURIOUS EMISSION

## Applicable Standard

§2.1053 and §90.210

## Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) – the absolute level

Spurious attenuation limit in dB = 43 + 10 $Log_{10}$ (power out in Watts) for EUT with a 25KHz channel bandwidth.

Spurious attenuation limit in dB = 50 + 10 $Log_{10}$ (power out in Watts) for EUT with a 12.5KHz channel bandwidth.

## Test Equipment

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|---|---|---|---|---|
| Sunol Sciences | Antenna | JB1 | A013105-3 | 2005-02-11 |
| A.H. System | Horn Antenna | SAS-200/571 | 2455-261 | 2004-08-02 |
| HP | Signal Generator | 8648C | 3426A01345 | 2004-05-17 |
| Com-Power | Antenna, Dipole | AD-100 | 2219 | 2004-09-26 |
| Rohde & Schwarz | Test Receiver | ESCI | 100044 | 2004-09-29 |
| HP | Pre Amplifier | 8447D | 2944A10187 | 2004-08-25 |

* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

## Environmental Conditions

| | |
|---|---|
| Temperature: | 23° C |
| Relative Humidity: | 55% |
| ATM Pressure: | 1021 mbar |

*The testing was performed by Hang Tan on 2005-05-13.*

## Test Result

-2.84 at 310.28MHz, for 25KHz channel bandwidth
-0.91 at 310.28MHz, for 12.5KHz channel bandwidth

| EUT | | | | | Substitution | | | | Absolute Power | FCC 90 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency MHz | Ampl. dBuV/m | Angle Degree | Height Meter | Polar H/V | Half-wavel cm | Reading dBm | Antenna Gain dB | Cable Loss dB | dBm | Limit dBm | Margin dB |
| Mid Channel, High Power (Wide 25kHz) | | | | | | | | | | | |
| 310.28 | 86.5 | 0 | 1.2 | V | 24.2 | -17.03 | 1.4 | 0.2 | -15.8 | -13 | -2.84 |
| 620.58 | 84.0 | 270 | 2.5 | V | 12.1 | -17.95 | 1.4 | 0.5 | -17.1 | -13 | -4.09 |
| 310.28 | 80.1 | 0 | 1.5 | H | 24.2 | -19.80 | 1.4 | 0.2 | -18.6 | -13 | -5.61 |
| 930.88 | 76.5 | 180 | 1.1 | V | 8.1 | -19.80 | 1.1 | 0.7 | -19.4 | -13 | -6.42 |
| 620.58 | 74.2 | 0 | 1.6 | H | 12.1 | -21.03 | 1.4 | 0.5 | -20.2 | -13 | -7.17 |
| 775.73 | 72.4 | 0 | 2.3 | V | 9.7 | -22.83 | 1.3 | 0.7 | -22.3 | -13 | -9.28 |
| 930.88 | 70.9 | 180 | 1.3 | H | 8.1 | -24.33 | 1.1 | 0.7 | -23.9 | -13 | -10.94 |
| 775.73 | 65.8 | 180 | 1.0 | H | 9.7 | -29.43 | 1.3 | 0.7 | -28.9 | -13 | -15.88 |
| Mid Channel, High Power (Narrow 12.5kHz) | | | | | | | | | | | |
| 310.28 | 78.3 | 0 | 2.0 | V | 24.2 | -22.10 | 1.4 | 0.2 | -20.9 | -20 | -0.91 |
| 620.58 | 78.0 | 270 | 2.4 | V | 12.1 | -22.03 | 1.4 | 0.5 | -21.2 | -20 | -1.17 |
| 310.28 | 77.5 | 0 | 1.3 | H | 24.2 | -22.70 | 1.4 | 0.2 | -21.5 | -20 | -1.51 |
| 620.58 | 73.8 | 0 | 1.7 | H | 12.1 | -24.60 | 1.4 | 0.5 | -23.7 | -20 | -3.74 |
| 775.73 | 71.4 | 0 | 2.2 | V | 9.7 | -25.83 | 1.3 | 0.7 | -25.3 | -20 | -5.28 |
| 930.88 | 70.3 | 180 | 1.1 | V | 8.1 | -26.50 | 1.1 | 0.7 | -26.1 | -20 | -6.12 |
| 930.88 | 70.7 | 180 | 1.0 | H | 8.1 | -26.53 | 1.1 | 0.7 | -26.1 | -20 | -6.15 |
| 775.73 | 66.4 | 180 | 1.0 | H | 9.7 | -28.83 | 1.3 | 0.7 | -28.3 | -20 | -8.28 |

Note:
1) No preamplifier used.
2) Test in three orthogonal plane.
3) Normal condition

# §2.1055 (d) and §90.213- FREQUENCY STABILITY

## Applicable Standard

§2.1055 (d)

§90.213
For output power > 2 watts, the limit is 5ppm for 150-174 MHz.

## Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the counter.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.

## Test Equipment

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|---|---|---|---|---|
| Tenney | Temperature Chamber $-50^0$ to $+100^0$C | Versa | 12.222-193 | 2004-05-23 |
| HP | Spectrum Analyzer | 8565EC | 3946A00131 | 2004-08-06 |
| HP | DC Power Supply | 6236B | 2003A05705 | N/A |
| HP | Microwave Frequency Counter | 5342A | 2232A06383 | 2004/09/07 |

* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

## Environmental Conditions

| | |
|---|---|
| Temperature: | 22° C |
| Relative Humidity: | 63% |
| ATM Pressure: | 1017 mbar |

*The testing was performed by Hang Tan on 2005-05-14.*

## Test Results

| | Temperature C | Measured Frequency MHz | Frequency Error PPM | Limit PPM |
|---|---|---|---|---|
| Normal Voltage (12.0V) | -30 | 155.150130 | 0.837899 | 5.0 |
| | -20 | 155.150128 | 0.825008 | 5.0 |
| | -10 | 155.150173 | 1.115050 | 5.0 |
| | 0 | 155.150195 | 1.256848 | 5.0 |
| | 10 | 155.150221 | 1.424428 | 5.0 |
| | 20 | 155.150200 | 1.289075 | 5.0 |
| | 30 | 155.150212 | 1.366420 | 5.0 |
| | 40 | 155.150161 | 1.037705 | 5.0 |
| | 50 | 155.150143 | 0.921689 | 5.0 |
| | 60 | 155.150100 | 0.644538 | 5.0 |
| Low Voltage (8.0V) | -30 | 155.150170 | 1.095714 | 5.0 |
| | -20 | 155.150136 | 0.876571 | 5.0 |
| | -10 | 155.150168 | 1.082823 | 5.0 |
| | 0 | 155.150182 | 1.173058 | 5.0 |
| | 10 | 155.150198 | 1.276184 | 5.0 |
| | 20 | 155.150230 | 1.482436 | 5.0 |
| | 30 | 155.150224 | 1.443764 | 5.0 |
| | 40 | 155.150246 | 1.585562 | 5.0 |
| | 50 | 155.150321 | 2.068966 | 5.0 |
| | 60 | 155.150400 | 2.578150 | 5.0 |

Ref freq: 155.15000 MHz
Normal voltage: 12.0V

# §90.214 - TRANSIENT FREQUENCY BEHAVIOR

## Standard Applicable

§90.214

## Test Method

TIA/EIA-603 2.2.19

## Test Equipment

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|---|---|---|---|---|
| Tektronix | Oscilloscope | TDS7104 | B020557 | 2004-10-09 |
| HP | Modulation Analyzer | 8901A | 2026A00847 | 2004-08-09 |
| Rohde & Schwarz | Generator, Signal | SMIQ03 | DE23746 | 2004-07-03 |

* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

## Environmental Conditions

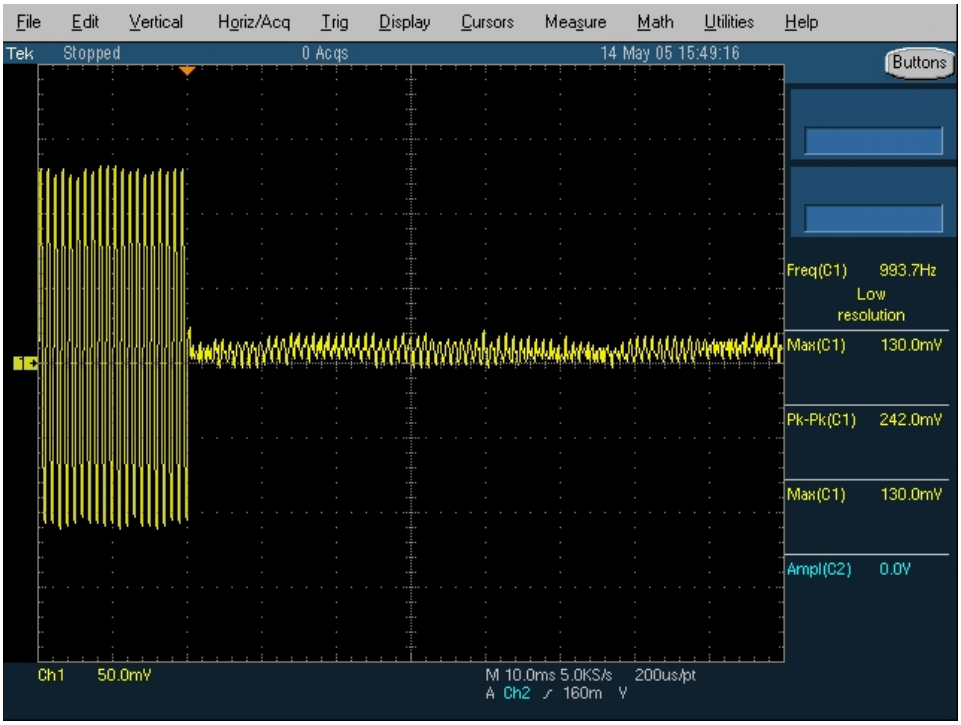
| | |
|---|---|
| Temperature: | 23° C |
| Relative Humidity: | 55% |
| ATM Pressure: | 1021 mbar |

*The testing was performed by Hang Tan on 2005-05-13.*

## Test Result

Please refer to the plot hereinafter.

Turn On:




Turn Off: