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: R74TC-700U

This Report Concerns:	**Equipment Type:**
☒ Original Report	Two-way Radio

Test Engineer:	Hang Tan
Report No.:	R0504126
Report Date:	2005-05-27
Reviewed By:	Daniel Deng
Prepared By:	Bay Area Compliance Laboratory Corporation 230 Commercial Street Sunnyvale, CA 94085 Tel: (408) 732-9162 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.

TABLE OF CONTENTS

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Shenzhen HYT Science&Technology Co.,Ltd's* FCC ID: *R74TC-700U* or the "EUT" as referred to in this report is a Two-way Radio, which measures approximately 25.5cmL x 6cmW x 4cmH.

**The test data gathered are from production sample serial number 05404F0083 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

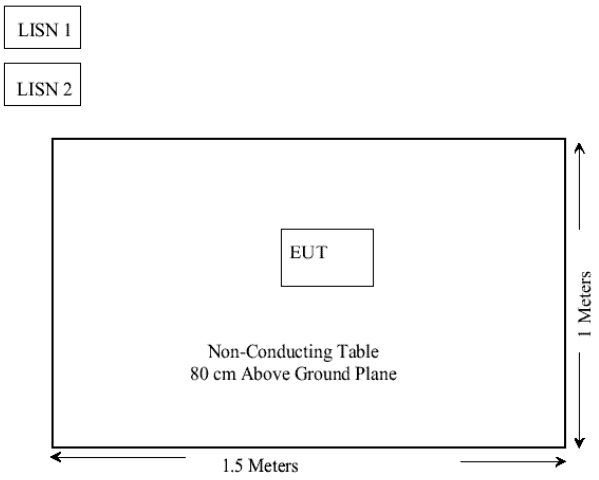
Please refer to Exhibit D.

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
§ 2.1046	Conducted Output Power	Compliant
§ 2.1046, § 90.205	RF Output Power	Compliant
§ 2.1047 § 90.207	Modulation Characteristics	Compliant
§ 2.1049 § 90.209	Emission, Occupied Bandwidth	Compliant
§ 2.1051 § 90.210	Spurious emissions at antenna terminals	Compliant
§ 2.1053 § 90.210	Field strength of spurious radiation	Compliant
§ 2.1055 § 90.213	Frequency stability vs. temperature 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

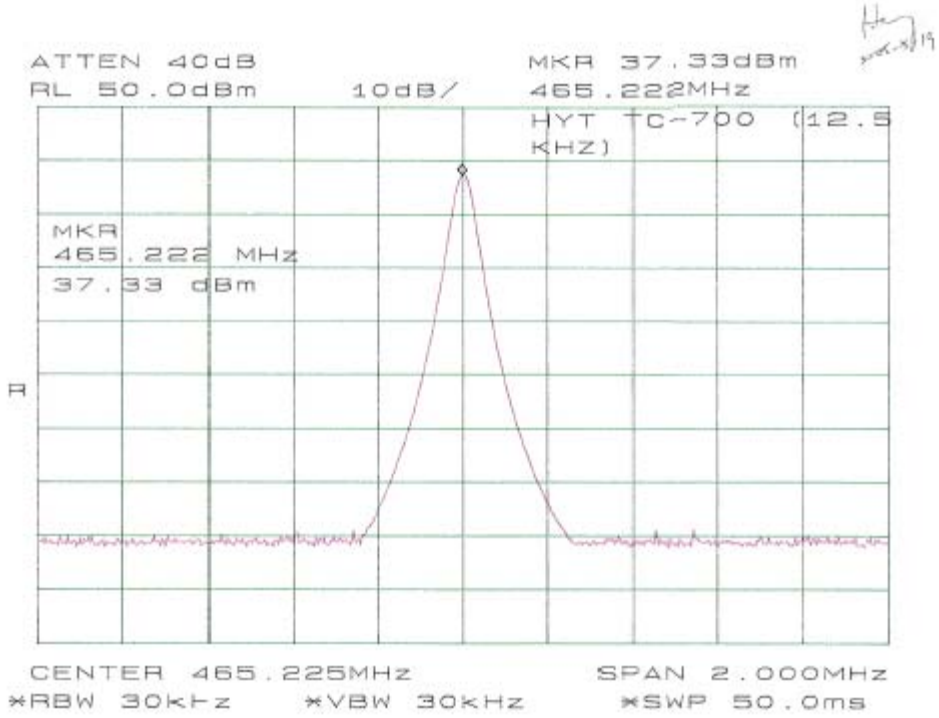
Temperature:	19° C
Relative Humidity:	73%
ATM Pressure:	1016 mbar

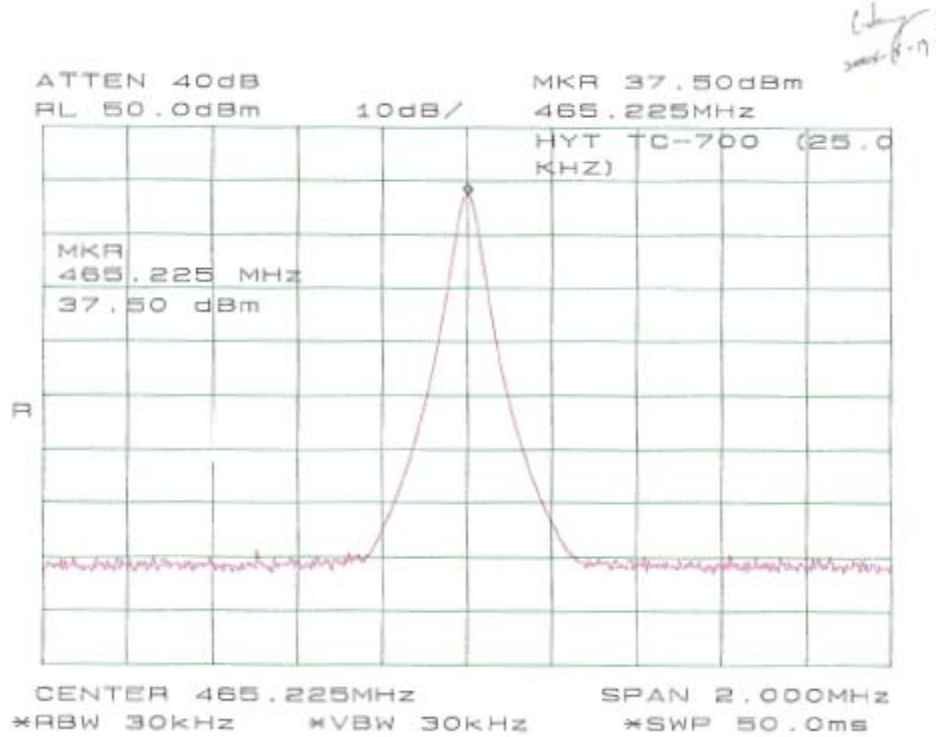
The testing was performed by Hang Tan on 2005-05-19.

Test Results

Frequency Spacing (kHz)	Frequency (MHz)	Output Power in dBm	Output Power in W
12.5	465.225	37.33	5.41
25	465.225	37.50	5.62

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
RL 50.0dBm
10dB/
MKR 37.33dBm
465.222MHz
HYT TC-700 (12.5
KHZ)
MKR
465.222 MHz
37.33 dBm
R
CENTER 465.225MHz
SPAN 2.000MHz
*RBW 30kHz
*VBW 30kHz
*SWP 50.0ms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MKR
465.225 MHz
37.50 dBm
R
CENTER 465.225MHz
SPAN 2.000MHz
*RBW 30kHz
*VBW 30kHz
*SWP 50.0ms

§2.1046 and §90.205 – RF 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

1. On a test site, the EUT shall be placed at 1.5m height on a turn table, and in the position closest to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3m from EUT to correspond to the frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the quasi-peak detector is used for the measurement.
4. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.
5. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
6. The transmitter shall then the rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
7. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
8. The maximum signal level detected by the measuring receiver shall be noted.
9. The transmitter shall be replaced by a substitution antenna.
10. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
11. The substitution antenna shall be connected to a calibrated signal generator.
12. In necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
13. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
14. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring received, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
15. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
16. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

17. The measure of the effective radiated power is the large of the two levels recorded, at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
HP	Amplifier	8447E	2944A10187	2004-09-23
Sunol Sciences	Sunol Sciences	JB1	A013105-3	2005-02-11
AH System	Horn Antenna	SAS-200/511	261	2004-08-02
HP	Generator, Signal	8648C	3426A01345	2004-05-17
Com-Power	Antenna, Dipole	AD-100	2219	2003-09-26
Rohde & Schwarz	Test Receiver	ESCI	100044	2004-09-29

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

Environmental Conditions

Temperature:	19° C
Relative Humidity:	73%
ATM Pressure:	1016 mbar

The testing was performed by Hang Tan on 2005-05-19.

Test Results

For 25kHz Channel Bandwidth:

FREQUENCY (MHZ)	SUBSTITUTION READING (dBm)	SUBSTITUTION ANTENNA GAIN	SUBSTITUTION CALBE LOSS (dB)	ERP (dBm)
465.225	35.3	1.5	0.2	36.6

For 12.5kHz Channel Bandwidth:

FREQUENCY (MHZ)	SUBSTITUTION READING (dBm)	SUBSTITUTION ANTENNA GAIN	SUBSTITUTION CALBE LOSS (dB)	ERP (dBm)
465.225	35.4	1.5	0.2	36.7

Sample calculation:

Absolute level = substitution reading + antenna gain - cable loss

For example:

36.7 = 35.4 + 1.5 - 0.2

§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:	22° C
Relative Humidity:	66%
ATM Pressure:	1021mbar

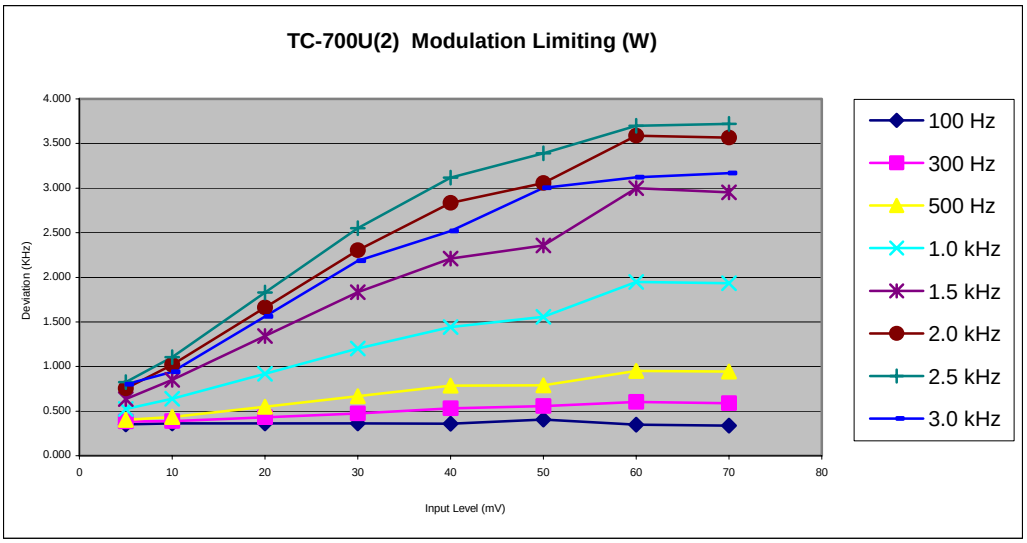
The testing was performed by Hang Tan on 2005-05-19.

Test Results

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

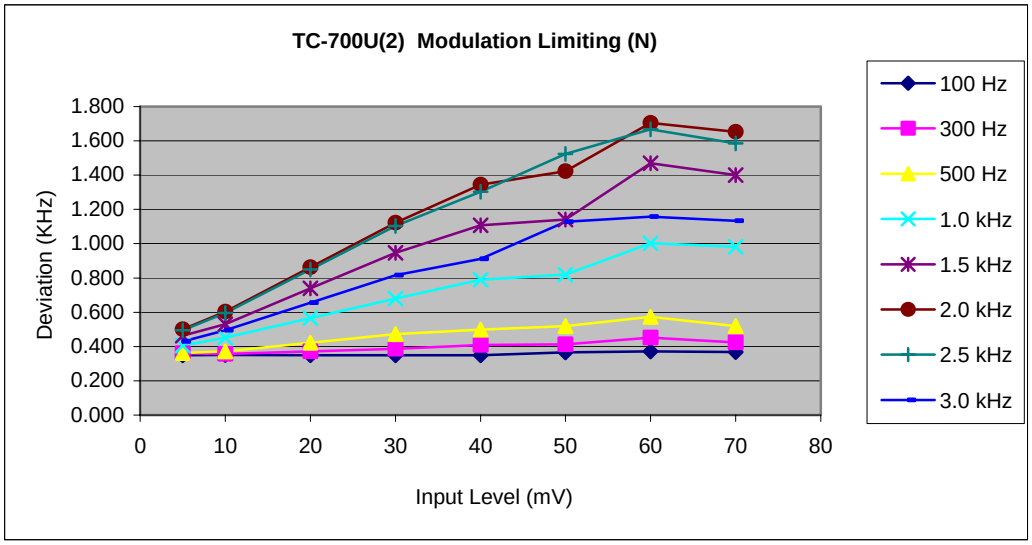
25 kHz channel spacing:

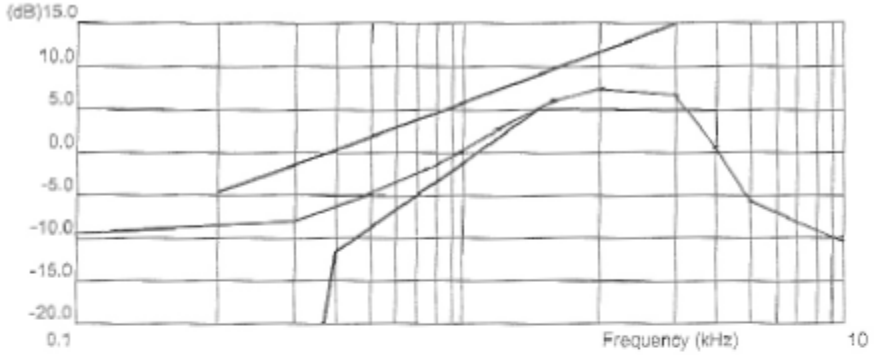
Input (mV)	100 Hz	300 Hz	500 Hz	1.0 kHz	1.5 kHz	2.0 kHz	2.5 kHz	3.0 kHz
5	0.352	0.383	0.403	0.525	0.636	0.755	0.824	0.799
10	0.361	0.389	0.434	0.637	0.851	1.020	1.106	0.941
20	0.361	0.431	0.551	0.920	1.342	1.661	1.829	1.562
30	0.361	0.473	0.667	1.203	1.833	2.302	2.551	2.183
40	0.360	0.532	0.786	1.441	2.209	2.833	3.118	2.520
50	0.407	0.556	0.789	1.556	2.356	3.056	3.389	3.003
60	0.347	0.601	0.952	1.947	2.998	3.587	3.700	3.122
70	0.336	0.590	0.943	1.935	2.952	3.565	3.719	3.166

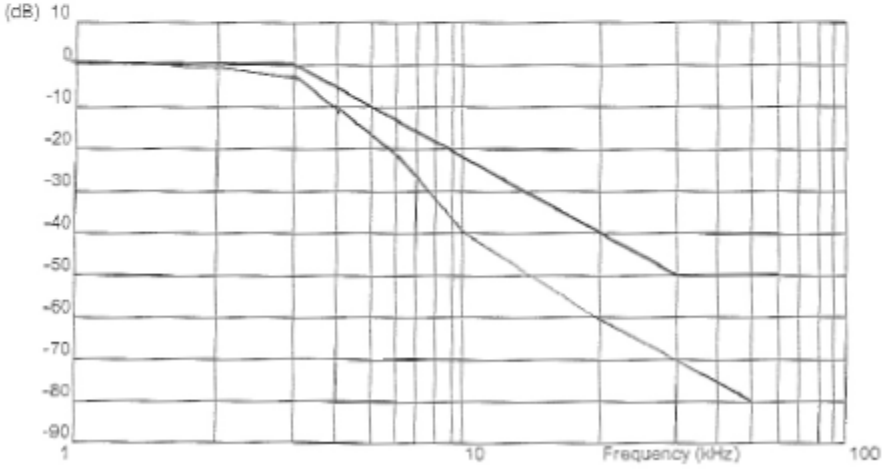


12.5 kHz channel spacing:

Input (mV)	100 Hz	300 Hz	500 Hz	1.0 kHz	1.5 kHz	2.0 kHz	2.5 kHz	3.0 kHz
5	0.350	0.360	0.363	0.405	0.463	0.500	0.494	0.430
10	0.351	0.356	0.371	0.452	0.531	0.603	0.596	0.495
20	0.350	0.371	0.422	0.566	0.739	0.863	0.850	0.656
30	0.349	0.386	0.472	0.680	0.946	1.123	1.103	0.816
40	0.350	0.409	0.499	0.789	1.107	1.345	1.304	0.912
50	0.366	0.412	0.519	0.819	1.140	1.423	1.523	1.127
60	0.372	0.452	0.573	1.003	1.469	1.705	1.668	1.157
70	0.368	0.423	0.520	0.982	1.400	1.652	1.586	1.133




(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(5.41)=57.33dB

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(5.62)=50.50dB

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:	22° C
Relative Humidity:	66%
ATM Pressure:	1021mbar

The testing was performed by Hang Tan on 2005-05-19.

Test Results

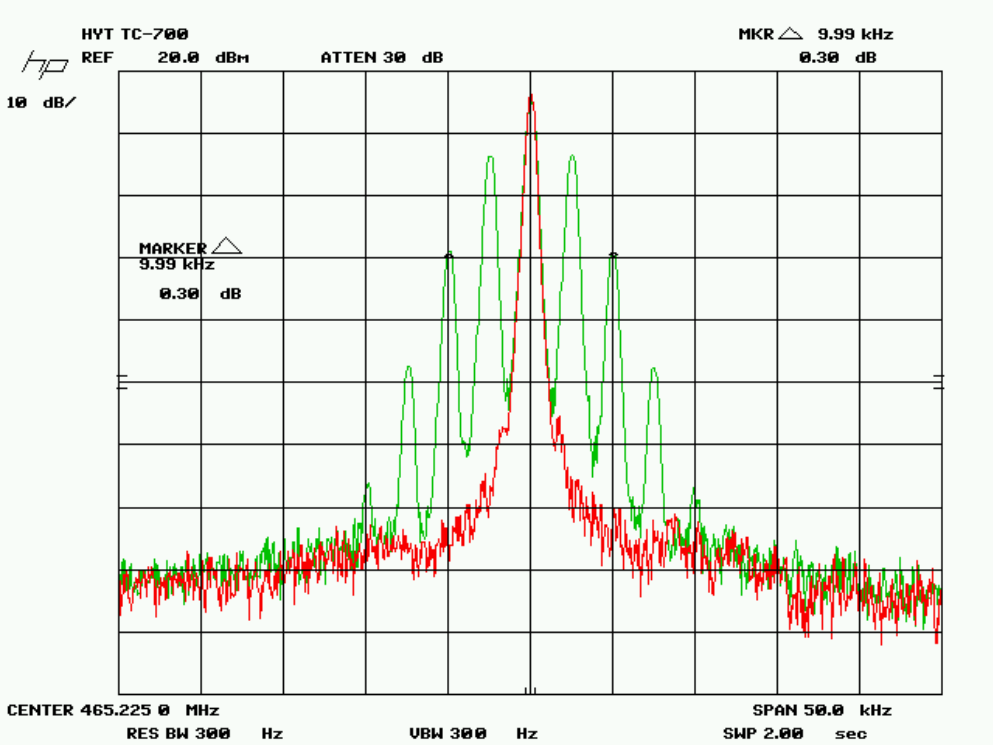
Please refer to the hereinafter plots.

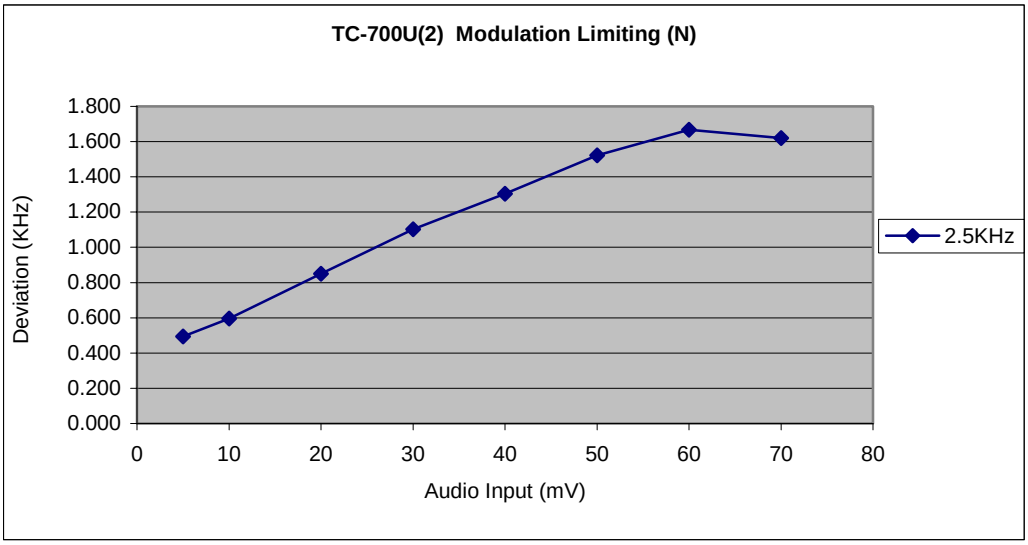
Emission Designator:

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

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

For 12.5 KHz Channel Spacing:

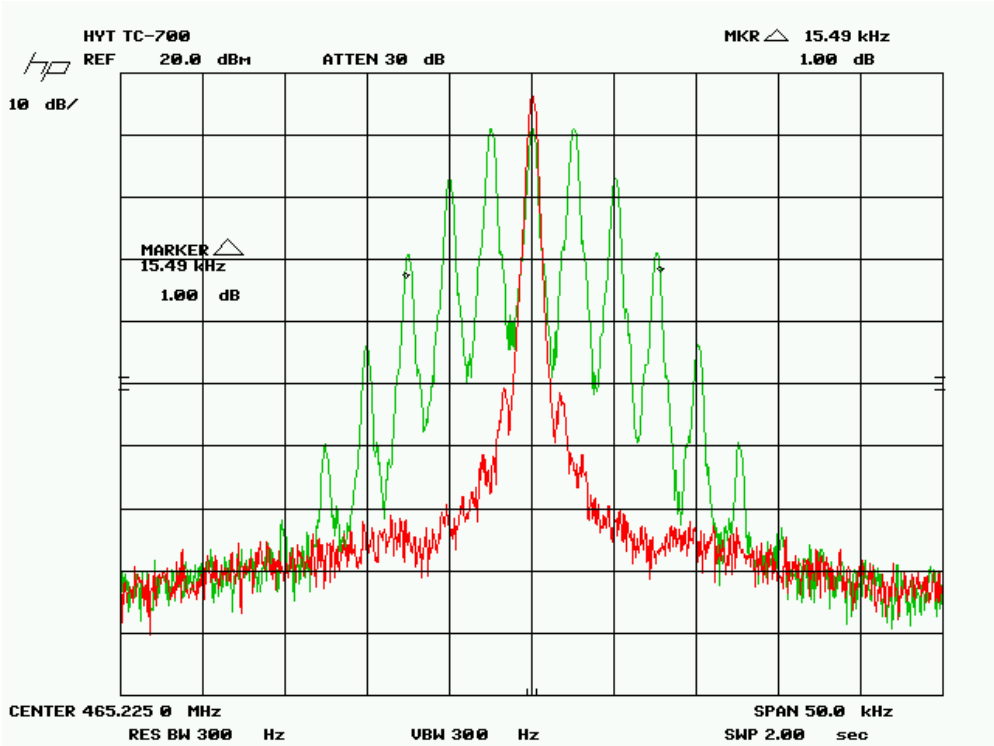


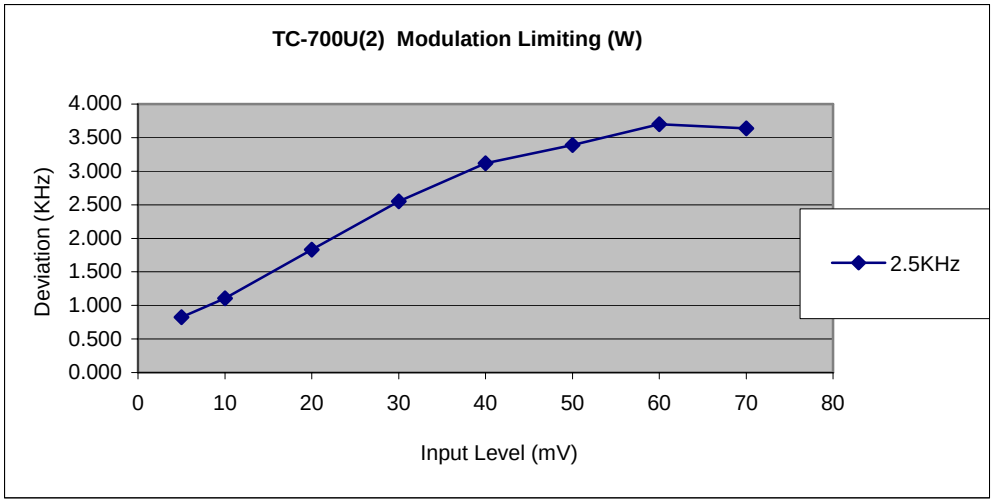


12.5kHz Channel Spacing:

Input (mV)	2.5KHz
5	0.494
10	0.596
20	0.850
30	1.103
40	1.304
50	1.523
60	1.668
70	1.620

For 25 KHz Channel Spacing:





25kHz Channel Spacing:

Input (mV)	2.5KHz
5	0.824
10	1.106
20	1.829
30	2.551
40	3.118
50	3.389
60	3.700
70	3.640

§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(5.62)=50.50dB

§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(5.41)=57.33dB

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

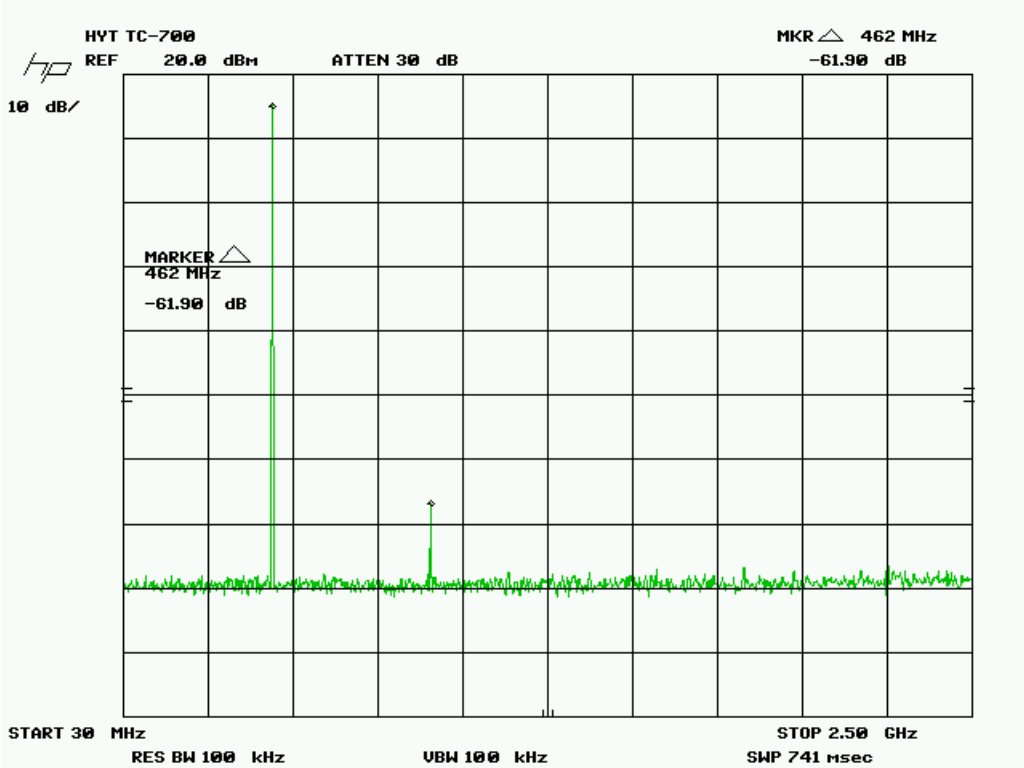
Temperature:	22° C
Relative Humidity:	66%
ATM Pressure:	1021mbar

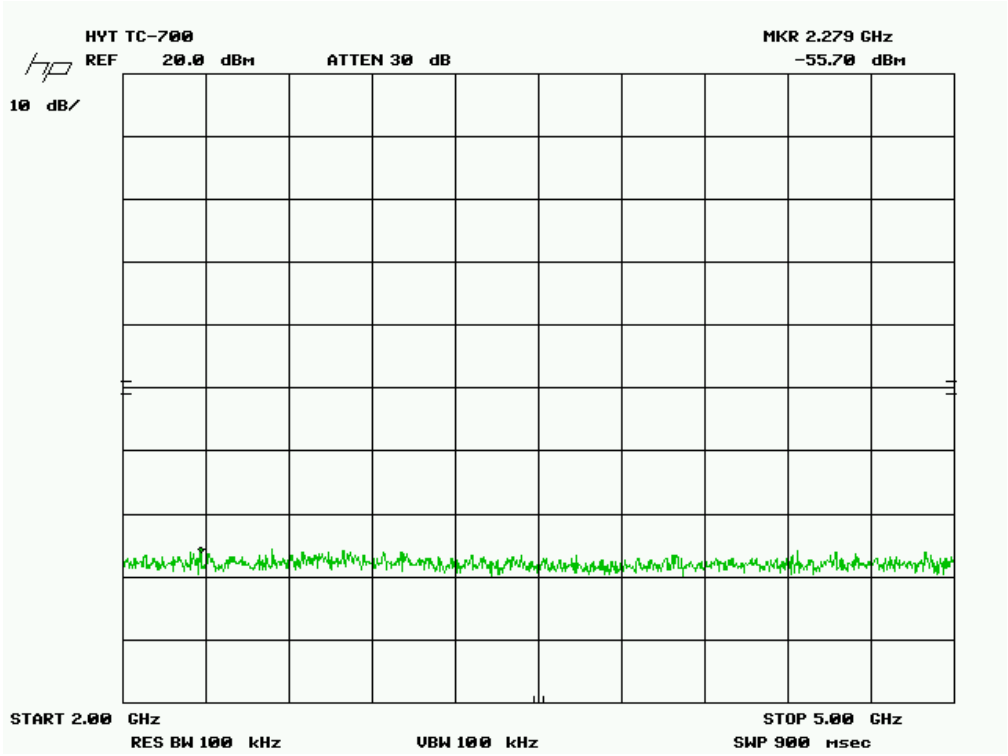
The testing was performed by Hang Tan on 2005-05-19.

Test Results

Please refer to the hereinafter plots.

For 12.5kHz Channel Spacing:





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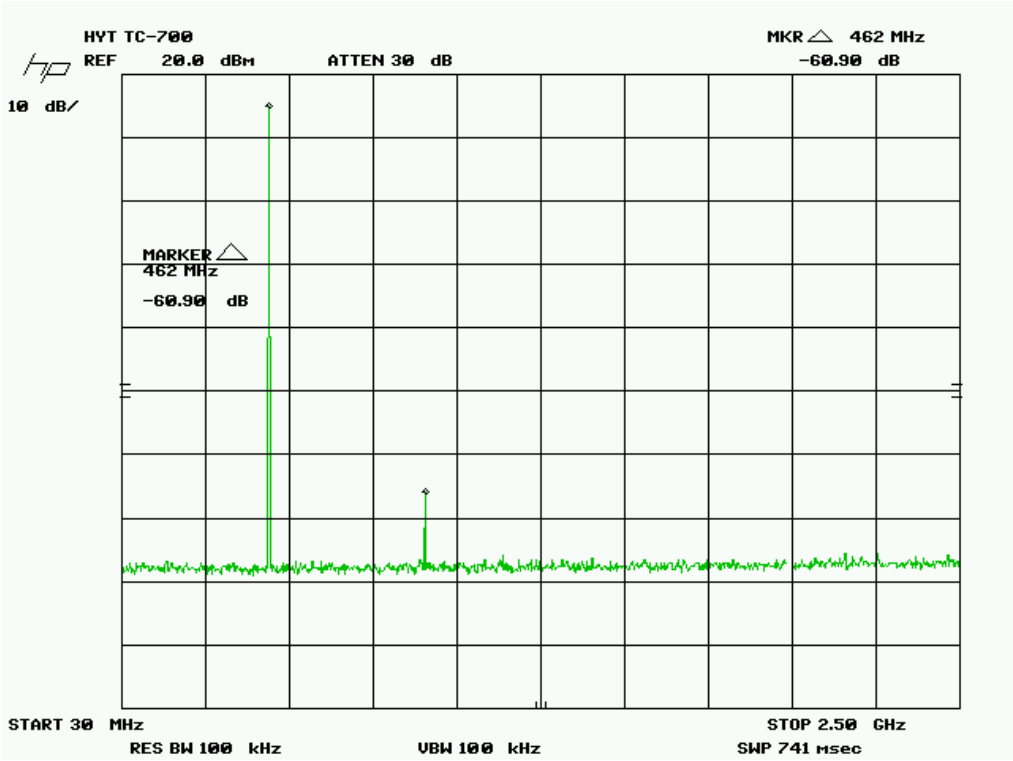
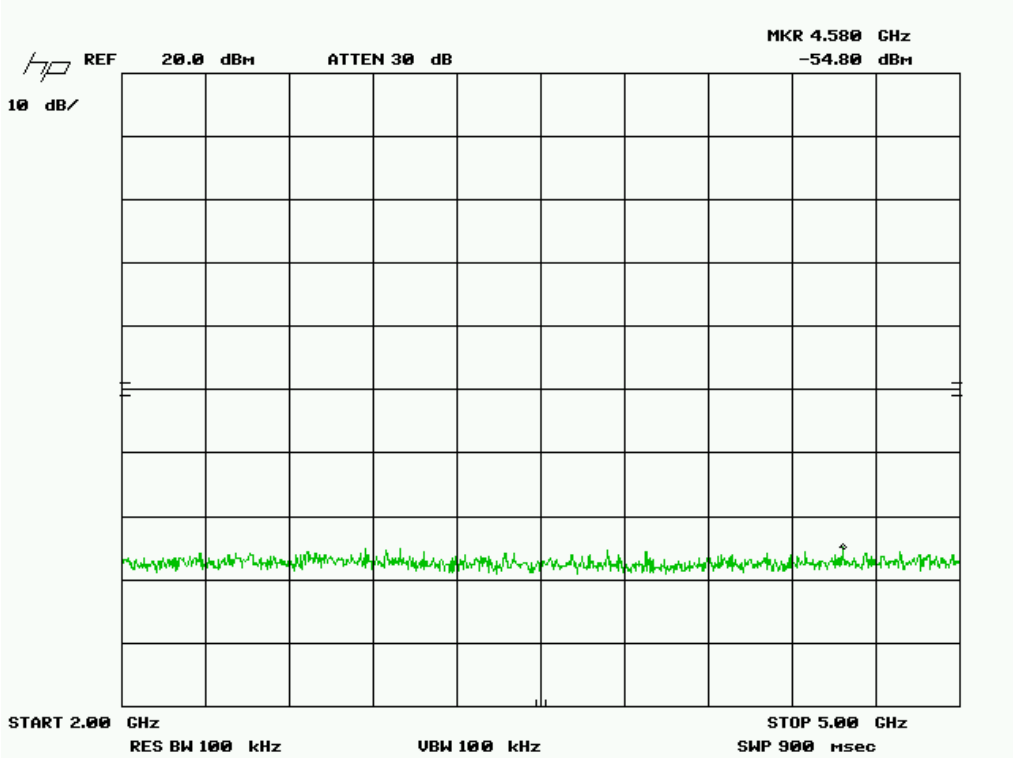




§2.1053 and §90.210 - RADIATED SPURIOUS EMISSION

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	Sunol Sciences	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:	18° C
Relative Humidity:	63%
ATM Pressure:	1020 mbar

The testing was performed by Hang Tan on 2005-05-20.

Test Result

-10.4dB at 930.48MHz, for 25KHz channel bandwidth
-4.1dB at 930.48MHz, 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	Comm-ents
Mid Channel, High Power (Wide 25kHz)												
465.25	132.2	0	2.2	H	16.1	34.6	1.5	0.2	35.9			Fund
465.25	132.6	120	1.5	V	16.1	35.3	1.5	0.2	36.6			Fund
930.48	61.3	120	1.4	H	8.1	-23.8	1.1	0.7	-23.4	-13	-10.4	
930.48	61.5	45	1.6	V	8.1	-23.8	1.1	0.7	-23.4	-13	-10.4	
459.21	60.5	210	1.0	V	16.3	-25.7	1.5	0.2	-24.4	-13	-11.4	
459.21	58.3	330	1.0	H	16.3	-29.9	1.5	0.2	-28.6	-13	-15.6	
1395.74	48.3	330	1.2	V	5.4	-36.9	7.0	1.4	-31.3	-13	-18.3	
1395.74	48.0	270	2.0	H	5.4	-37.2	7.0	1.4	-31.6	-13	-18.6	
Mid Channel, High Power (Narrow 12.5kHz)												
465.25	132.3	210	1.2	H	16.1	34.7	1.5	0.2	36.0			Fund
465.25	132.7	75	1.6	V	16.1	35.4	1.5	0.2	36.7			Fund
930.48	60.7	110	1.2	H	8.1	-24.5	1.1	0.7	-24.1	-20	-4.1	
459.21	60.3	210	1.3	V	16.3	-25.9	1.5	0.2	-24.6	-20	-4.6	
930.48	59.9	45	1.6	V	8.1	-25.3	1.1	0.7	-24.9	-20	-4.9	
459.21	57.3	330	1.0	H	16.3	-30.8	1.5	0.2	-29.5	-20	-9.5	
1395.74	48.6	330	1.2	V	5.4	-36.5	7.0	1.4	-30.9	-20	-10.9	
1395.74	47.9	300	1.4	H	5.4	-37.3	7.0	1.4	-31.7	-20	-11.7	

Fund: Fundamental

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

Compliance Statement:

According to FCC Part 15, at 3-meter distance the emission from an intentional radiator shall not exceed the field strength level 40 dBuV/m within 30-88 MHz, 43.5 dBuV/m within 88-216 MHz, 46dBuV/m within 216-960 MHz, 54dBuV/m above 960 MHz. The level of any unwanted emissions shall not exceed the level of the fundamental frequency.

The levels of unwanted emission of this device were below the above limits. This device was compliant with the FCC Part 15.

§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 421-512 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:	18° C
Relative Humidity:	63%
ATM Pressure:	1020 mbar

The testing was performed by Hang Tan on 2005-05-20.

Test Results

	Temperature C	Measured Frequency MHz	Frequency Error PPM	Limit PPM
Normal Voltage (7.4V)	-30	489.874805	-0.398061	5
	-20	489.874804	-0.400102	5
	-10	489.874821	-0.365399	5
	0	489.874913	-0.177596	5
	10	489.875142	0.289870	5
	20	489.875216	0.440929	5
	30	489.875177	0.361317	5
	40	489.875351	0.716509	5
	50	489.875517	1.055371	5
	60	489.875571	1.165603	5
Low Voltage (6.0V)	-30	489.874946	-0.110232	5
	-20	489.874970	-0.061240	5
	-10	489.874925	-0.153100	5
	0	489.874995	-0.010207	5
	10	489.875230	0.469508	5
	20	489.875198	0.404185	5
	30	489.875224	0.457260	5
	40	489.875441	0.900230	5
	50	489.875532	1.085991	5
	60	489.875598	1.220720	5

Ref freq: 489.87500 MHz
Normal voltage: 7.4V

§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

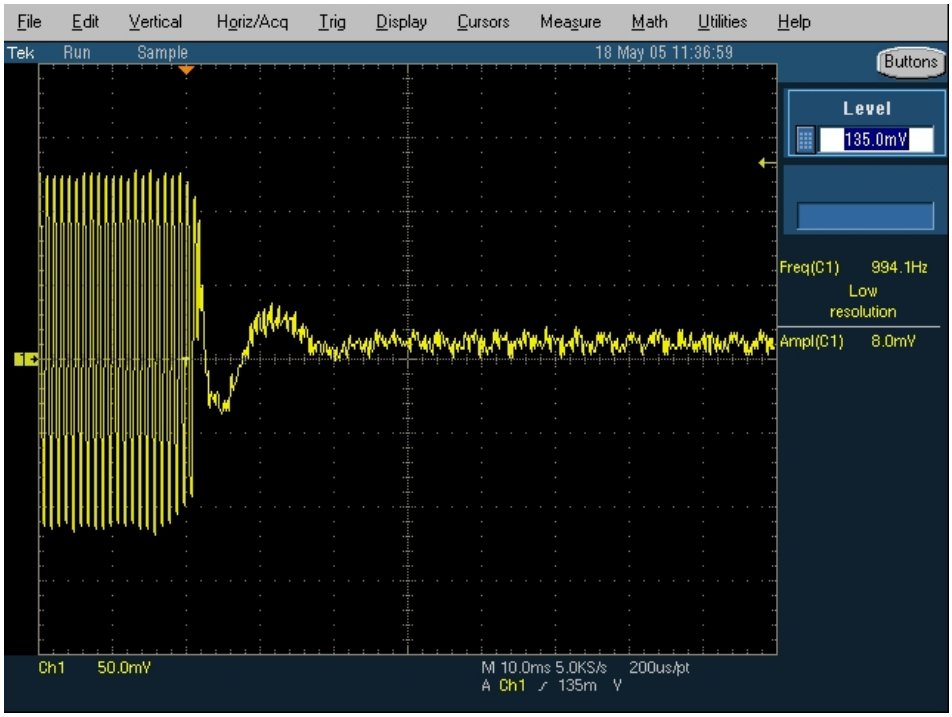
Temperature:	18° C
Relative Humidity:	63%
ATM Pressure:	1020 mbar

The testing was performed by Hang Tan on 2005-05-20.

Test Result

Please refer to the plot hereinafter.

Turn On:



Turn Off: