

§2.1051, & §24.238(a) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standard

Requirements: CFR 47, § 2.1051 & §24.238(a).

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1057.

Test Procedure

The EUT output was connected to the input of the Spectrum Analyzer through a calibrated attenuator.

The resolution bandwidth of the Spectrum Analyzer was set to 30kHz, and the resulting data was plotted to show any out-of-band emissions up to the 10th harmonic.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|--------------|-------------------|---------|---------------|--------------|
| HP | Spectrum Analyzer | HP8564E | 3943A01781 | 2003-08-01 |
| HP | Plotter | HP7470A | 2541A49659 | Not Required |
| Weinschel | Attenuator | MS015 | 58633 | N/A |

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

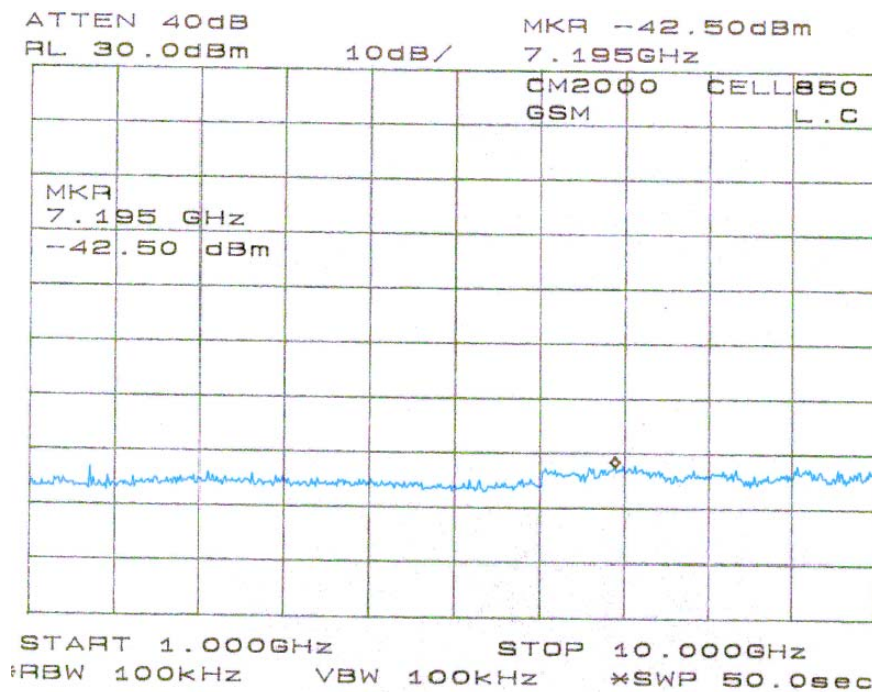
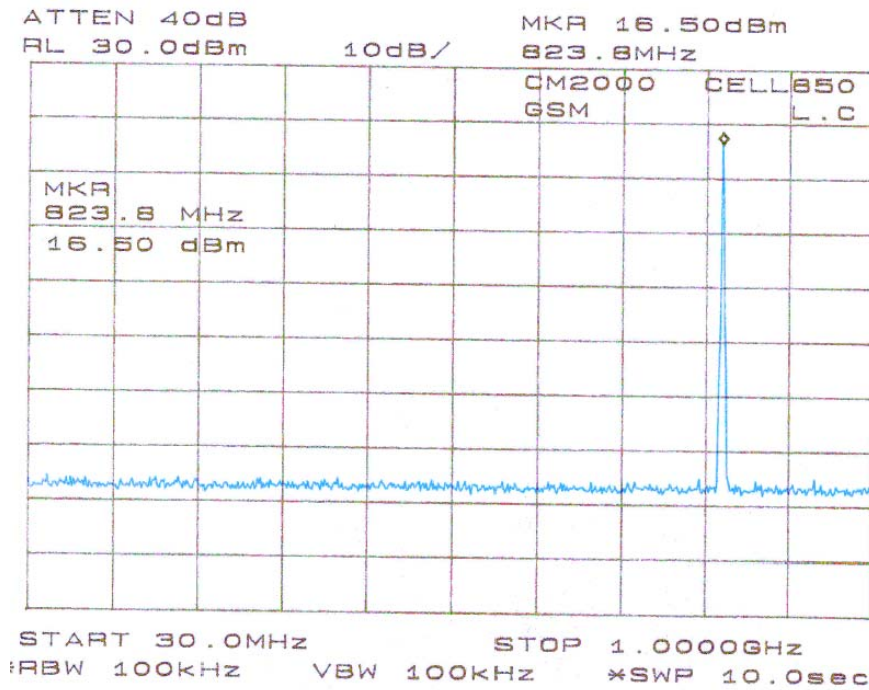
Environmental Conditions

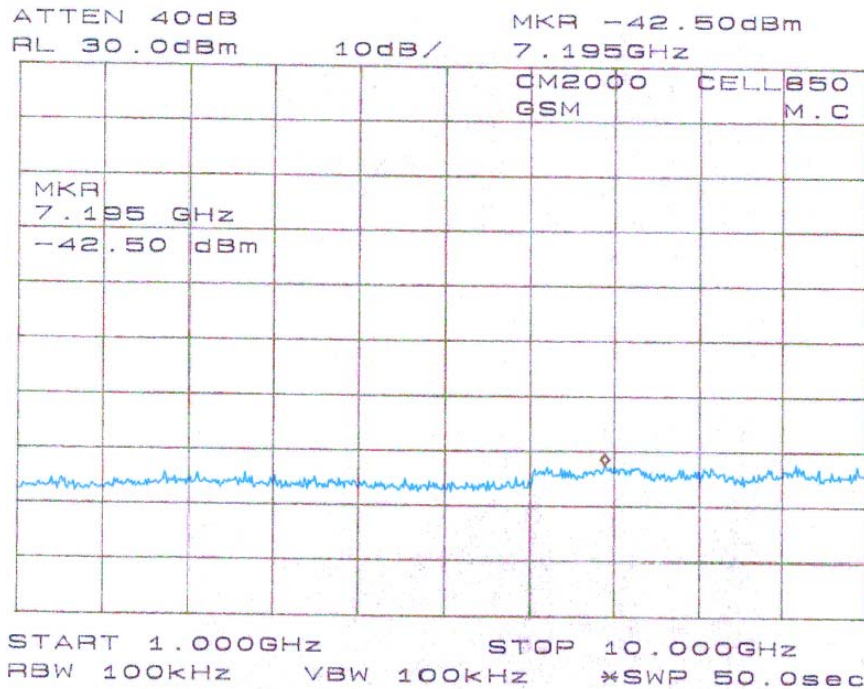
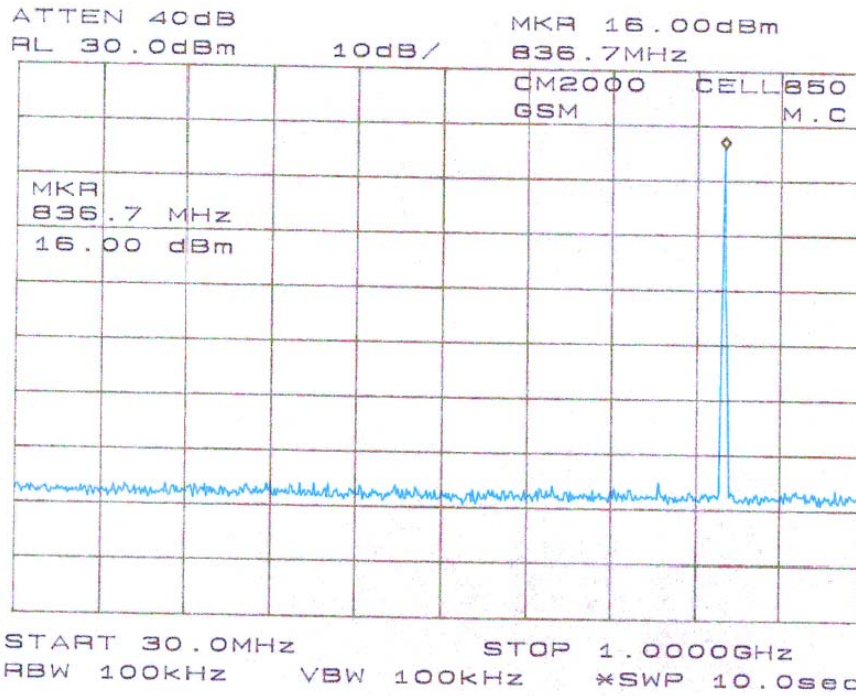
| | |
|--------------------|-----------|
| Temperature: | 28° C |
| Relative Humidity: | 37% |
| ATM Pressure: | 1032 mbar |

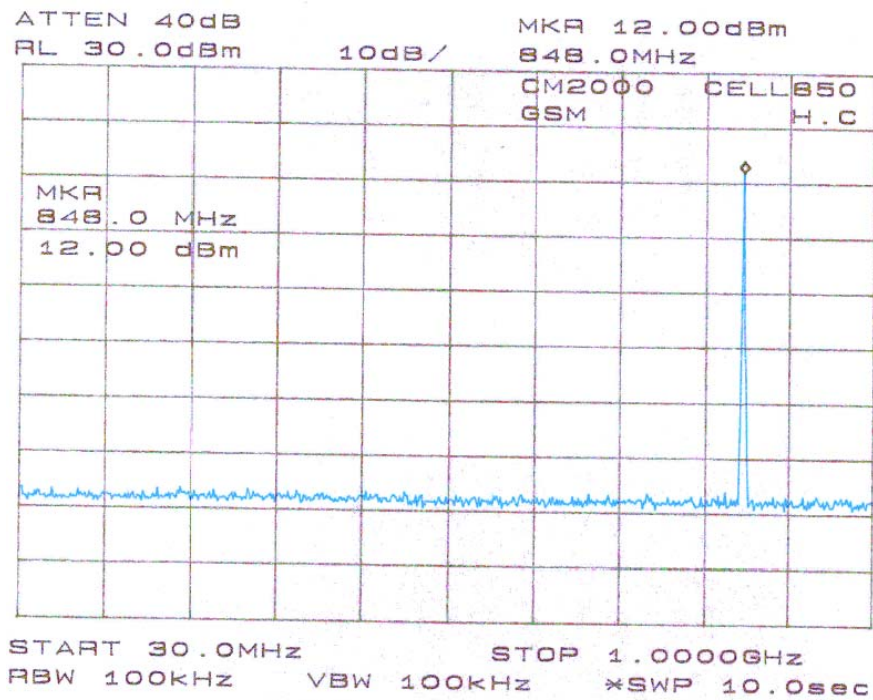
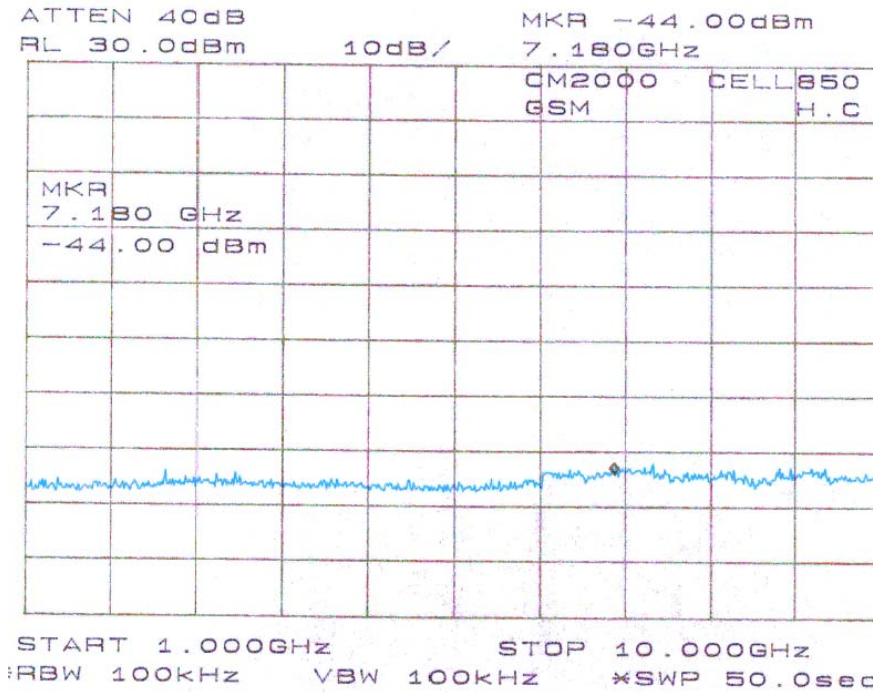
The testing was performed by Ming Jin on 2004-08-25.

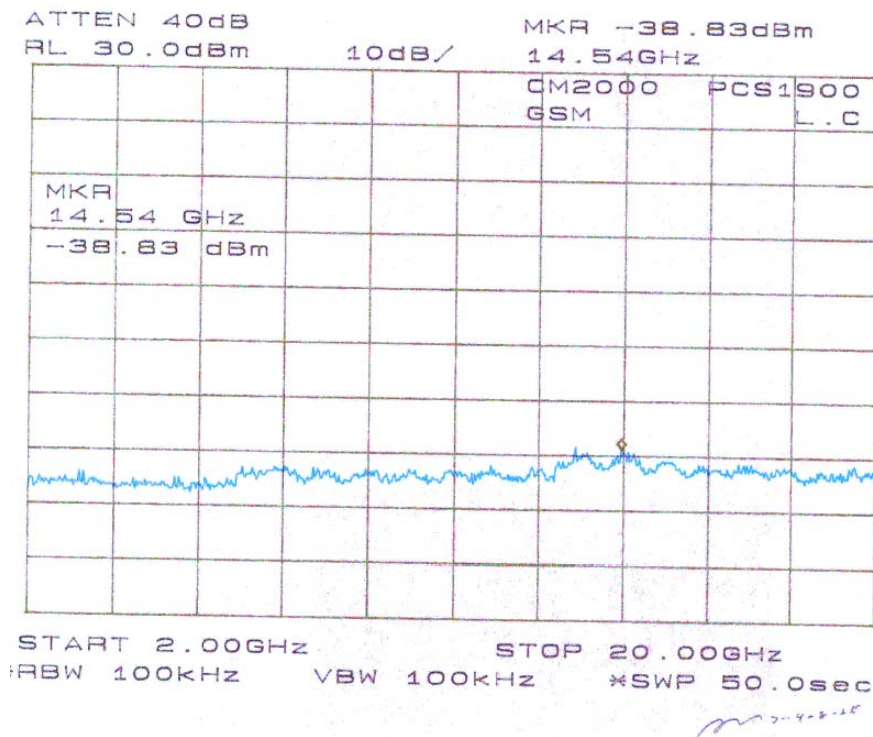
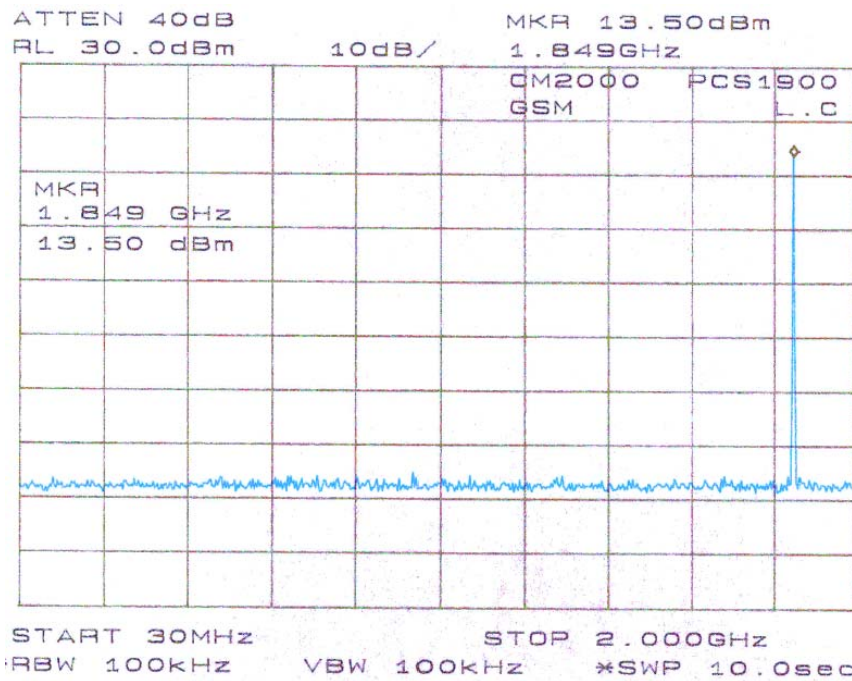
Test Results

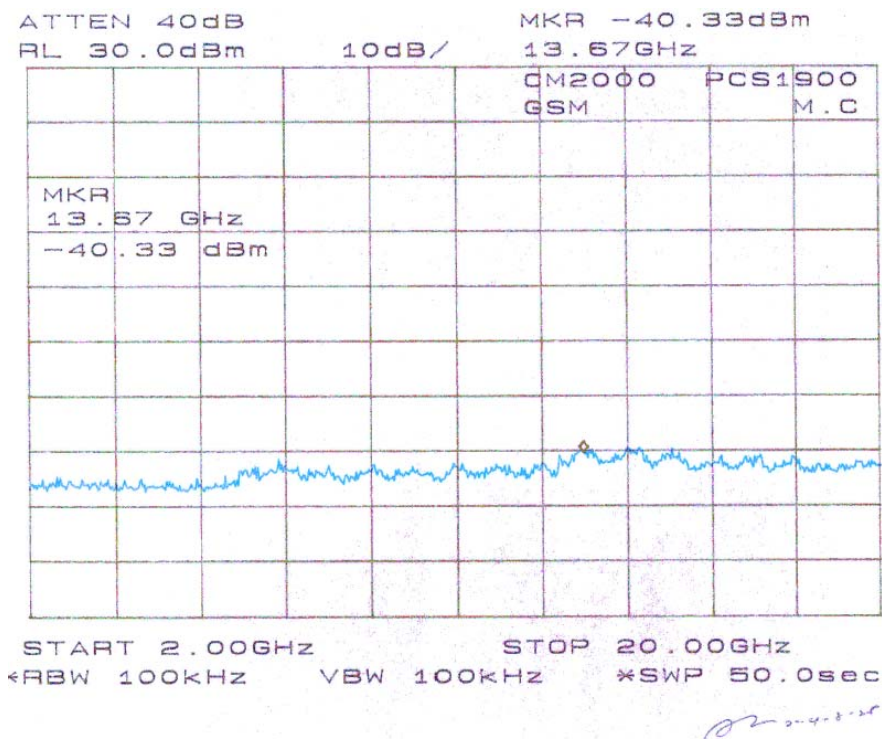
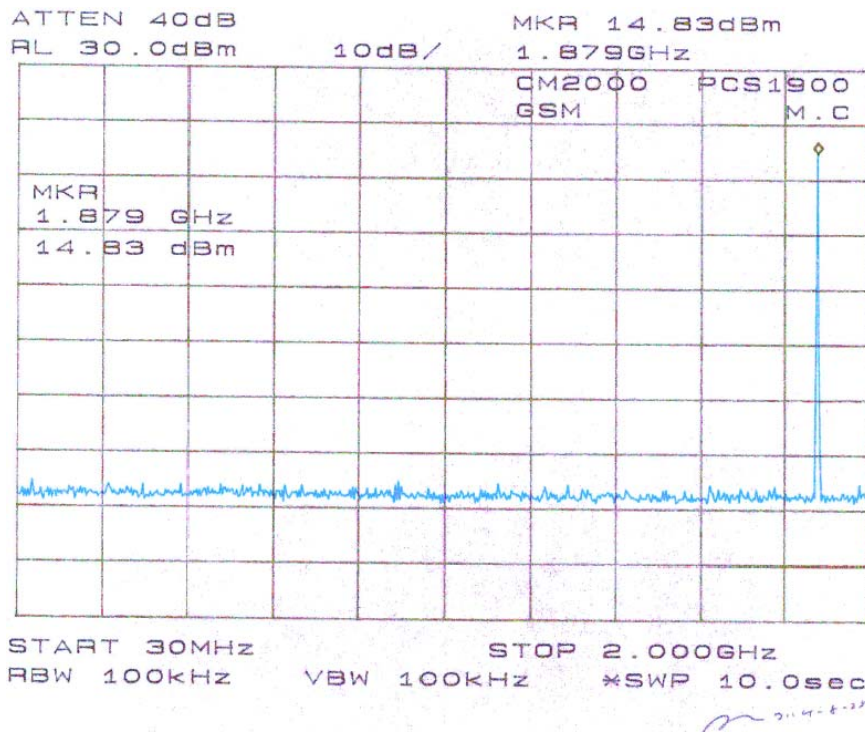
Please refer to the hereinafter plots.

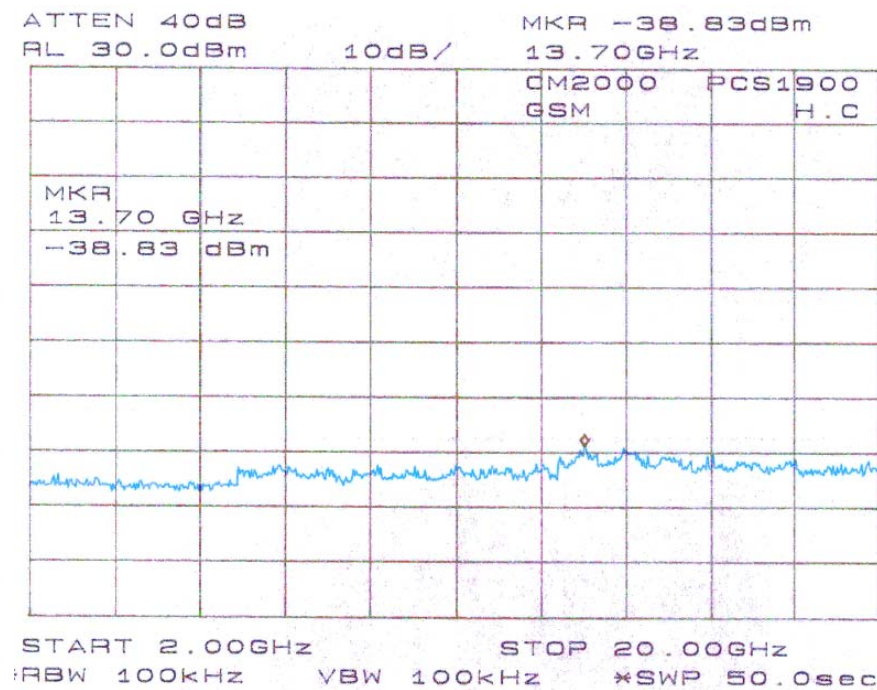
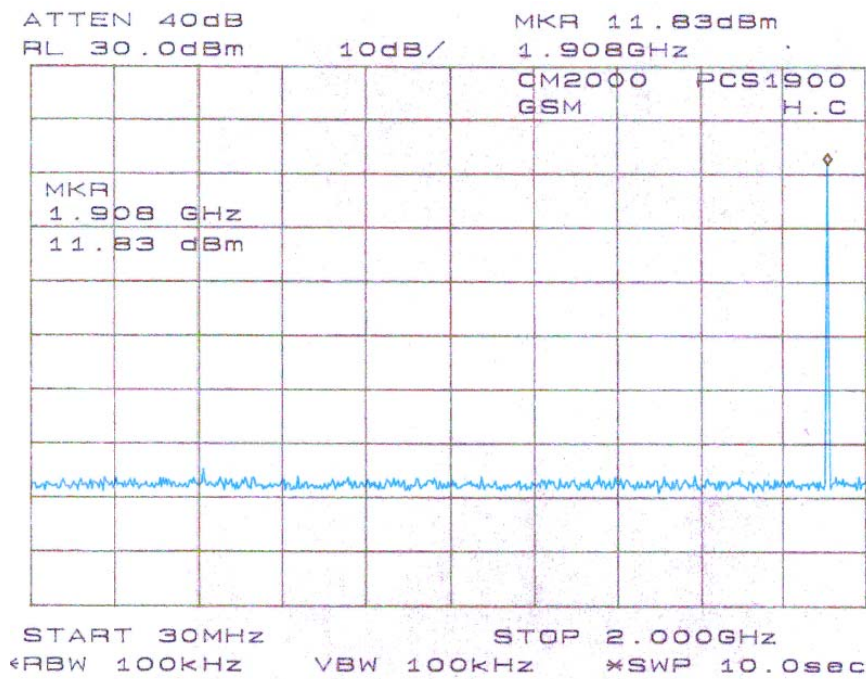












§2.1055 (a), §2.1055 (d), & §24.235 - FREQUENCY STABILITY

This EUT is an amplifier, not a transmitter. There is no oscillator circuit in the EUT, therefore there is no frequency stability measurement required.

§24.238 – BAND EDGE

Applicable Standard

According to §24.238, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Test Procedure

The EUT output was connected to the input of the Spectrum Analyzer through a calibrated attenuator.

The resolution bandwidth of the Spectrum Analyzer was set to 30kHz, and the center frequency was set to the band edge frequency.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|--------------|-------------------|---------|---------------|--------------|
| HP | Spectrum Analyzer | HP8564E | 3943A01781 | 2003-08-01 |
| HP | Plotter | HP7470A | 2541A49659 | Not Required |
| Weinschel | Attenuator | MS015 | 58633 | N/A |

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

Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 28° C |
| Relative Humidity: | 37% |
| ATM Pressure: | 1032 mbar |

The testing was performed by Ming Jin on 2004-08-25.

Test Results

Please refer to the following plots.

