

FCC PART 22H, 24E TYPE APPROVALS MEASUREMENT AND TEST REPORT

For

ZTE Corporation

ZTE Plaza, Hi-tech Park, Nanshan District,

Shenzhen, Guangdong, China 518057

FCC ID: Q78- ZTEAC570
Model: ZTE AC570

| | | | |
|---|---|--|--|
| This Report Concerns: <input checked="" type="checkbox"/> Original Report | | Product Type: CDMA2000 1X EVDO USB Modem | |
| Test Engineer: | Guan Bin Bob Xiong | <i>Guan bin</i> <i>Bob Xiong</i> | |
| Report No.: | ZTER0805025 | | |
| Report Date: | 2008-04-10 | | |
| Reviewed By: | David Gong Lab Manager | <i>David Gong</i> | |
| Prepared By: | ZTE Corporation Reliability Testing Center ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, NanShan District, Shenzhen, Guangdong 518057, P.R. of China Tel: +86-755-26770345 Fax: +86-755-26770347 | | |

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1 GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

The ZTE Corporation's product, FCC ID: Q78-ZTEAC570 or the "EUT" as referred to in this report is a EVDO USB Modem, which measures approximately 90.4mm (L) x 35mm (W) x 12.3mm (H)

The frequency ranges are

CDMA 800MHz Cellular (UL824MHz ~ 849 MHz, DL 869 MHz ~ 894 MHz)
CDMA 1900MHz PCS (UL1850 MHz ~1910 MHz, DL1930 MHz ~1990 MHz)

* The test data gathered are from production sample, serial number: 290727810211, provided by the manufacturer.

1.2 EUT Photo (picture of product)



Additional Photos in Exhibit C

1.3 Objective

This type approval report is prepared on behalf of *ZTE Corporation* in accordance with Part 2, Subpart J, Part 22 Subpart H; and Part 24 Subpart E of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules for RF output power, modulation characteristic, occupied bandwidth, spurious emission at antenna terminal, field strength of spurious radiation, frequency stability, band edge, and conducted and radiated margin.

1.4 Related Submittal(s)/Grant(s)

FCC Part15B JBP submission FCC ID: Q78-ZTEC570.

1.5 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 parts:

Part 22 Subpart H - Public Mobile Services

Part 24 Subpart E - PCS

Applicable Standards: TIA-98-E, TIA603-C, ANSI C63.4-2003.

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.

1.6 Test Facility

ZTE Corporation Reliability Testing Center

ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nan Shan District, Shenzhen, Guangdong, 518057, P.R. of China

Tel: +86-755-26770345

Fax: +86-755-26770347

Test site at ZTE Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC).

The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 25, 2005. ZTE Corporation Lab's FCC Registration Number is 373926.

2 SYSTEM TEST CONFIGURATION

2.1 Justification

The EUT was configured for testing according to TIA/EIA-603 C.

The final qualification test was performed with the EUT operating at normal mode.

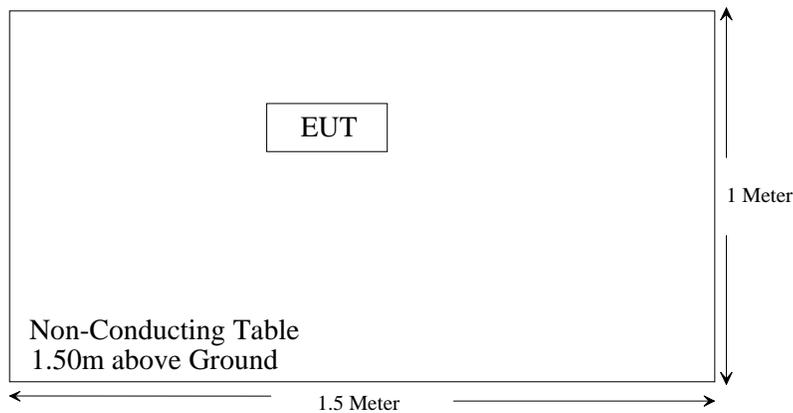
2.2 Equipment Modifications

No modifications were made to the EUT.

2.3 Local Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|---------------------------------|-------------|---------------|
| Agilent | Wireless communication test set | 8960 E5515C | GB42431673 |

2.4 Test Setup Block Diagram



3 SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|---|--|---------------------------|
| § 2.1047 | Modulation Characteristics | Compliant |
| § 2.1053 | Spurious Radiated Emissions | Compliant |
| §2.1093 | RF Exposure | Compliant SAR report * |
| § 2.1046, § 22.913 (a), § 24.232(c) | RF Output Power | Compliant |
| § 2.1049, § 22.917 § 22.905, § 24.238 | Out of Band Emission, Occupied Bandwidth | Compliant |
| § 2.1051, § 22.917(a), § 24.238(a) | Spurious Emissions at Antenna Terminals | Compliant |
| § 2.1055 § 22.355, § 24.235 | Frequency stability vs. temperature Frequency stability vs. voltage | Compliant |
| § 22.917, §24.238 | Band Edge | Compliant |

Note: **Please refer to BA CL Test Report R0805025-SAR for Complete Test Results.

4 §2.1047 - MODULATION CHARACTERISTIC

4.1 Applicable Standard

Requirement: FCC § 2.1047(d). As part 22H and Part24E has not specific requirement for CDMA modulation, therefore modulation characteristic is not presented.

5 §2.1053 - SPURIOUS RADIATED EMISSIONS

5.1 Applicable Standard

Requirements: CFR 47, § 2.1053.

5.2 Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a 50 ohms 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 log (TXpwr in Watts/0.001) – the absolute level

Spurious attenuation limit in dB = 43 + 10 Log₁₀ (power out in Watts)

Measurement bandwidth (RBW) for 30MHz to 1000MHz: 100kHz.

Measurement bandwidth (RBW) for 1000 MHz to 12750 MHz: 1MHz.

5.3 Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|-----------------|--|-------------|---------------|------------|
| R&S | EMI Test Receiver 20Hz~26.5GHz | ESI26 | 100058 | 2007-10-25 |
| R&S | Log periodic Antenna 30~3000MHz | HL562 | 100022 | 2008-03-07 |
| R&S | Double-Ridged Waveguide Horn Antenna 1~18GHz | HF906 RX | 100032 | 2007-10-10 |
| R&S | Filters | TS-FILT | N/A | 2007-10-25 |
| R&S | Cable Set Up to 18Ghz | RF Cable | N/A | 2007-10-25 |
| Albatross | Anechoic Chamber 3m site | 3m site | N/A | 2007-5-14 |
| R&S | Software | ES-K1 | N/A | N/A |
| SCHWARZBEC K | VHF-UHF Broad band Antenna 30-1000MHz | VUBA 9117 | 173 | 2007-4-11 |
| R&S | Double-Ridged Waveguide Horn Antenna 1~18GHz | HF906 TX | 100446 | 2007-9-20 |
| R&S | Signal generator 10MHz~20GHz | SMR20 | 100098 | 2007-10-16 |
| Agilent | Wireless communication test set | 8960 E5515C | GB42431673 | 2008-01-18 |

* **Statement of Traceability:** ZTE Corporation Reliability Testing Center attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

5.4 Environmental Conditions

| | |
|---------------------------|----------|
| Temperature: | 20° C |
| Relative Humidity: | 55% |
| ATM Pressure: | 1018mbar |

* The testing was performed by Bob Xiong on 2008-04-10

5.5 Test Result

Worst case reading as follows:

Part22H:

27.89 dB at 879.479MHz

TX Spurious Emission scans 30 MHz – 12.75GHz (TX) Middle (283) channel (836.52MHz)

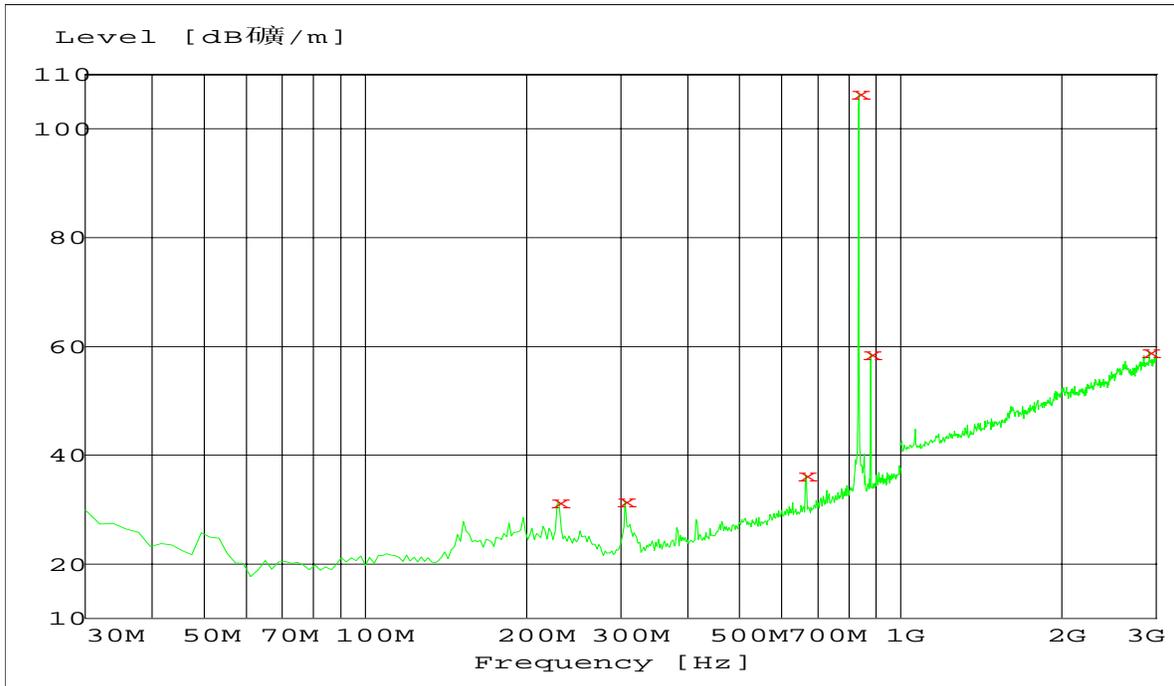
| Indicated | | Test Ant. Polar (H/V) | Substituted | | Ant. Gain Correction (dBi) | Cable Loss (dB) | Absolute Level dBm | Limit (dBm) | Margin (dB) |
|-------------|---------------|-----------------------|-------------|-------------|----------------------------|-----------------|--------------------|-------------|-------------|
| Freq. (MHz) | Amp. (dBuV/m) | | Freq. (MHz) | Level (dBm) | | | | | |
| 879.479 | 62.09 | H | 879.479 | -35 | -1.24 | 2.5 | -40.89 | -13 | 27.89 |
| 2911.824 | 59.02 | V | 2911.824 | -42.72 | 7.95 | 4.6 | -41.52 | -13 | 28.52 |
| 879.479 | 58.69 | V | 879.479 | -38.5 | -1.24 | 2.5 | -44.39 | -13 | 31.39 |
| 2903.808 | 58.4 | H | 2903.808 | -45.71 | 7.95 | 4.5 | -44.41 | -13 | 31.41 |
| 12323.65 | 59.21 | H | 12323.65 | -47.76 | 12.05 | 9.9 | -47.76 | -13 | 34.76 |
| 7852.705 | 54.04 | H | 7852.705 | -47.26 | 9.25 | 7.9 | -48.06 | -13 | 35.06 |
| 6166.333 | 53.7 | H | 6166.333 | -49.69 | 9.05 | 6.9 | -49.69 | -13 | 36.69 |
| 12750 | 59.24 | V | 12750 | -51.73 | 12.15 | 9.9 | -51.63 | -13 | 38.63 |
| 228.2766 | 34.99 | H | 228.2766 | -57.46 | 1.6 | 1.2 | -59.21 | -13 | 46.21 |

Part 24E*2.52 dB at 1901.804MHz*

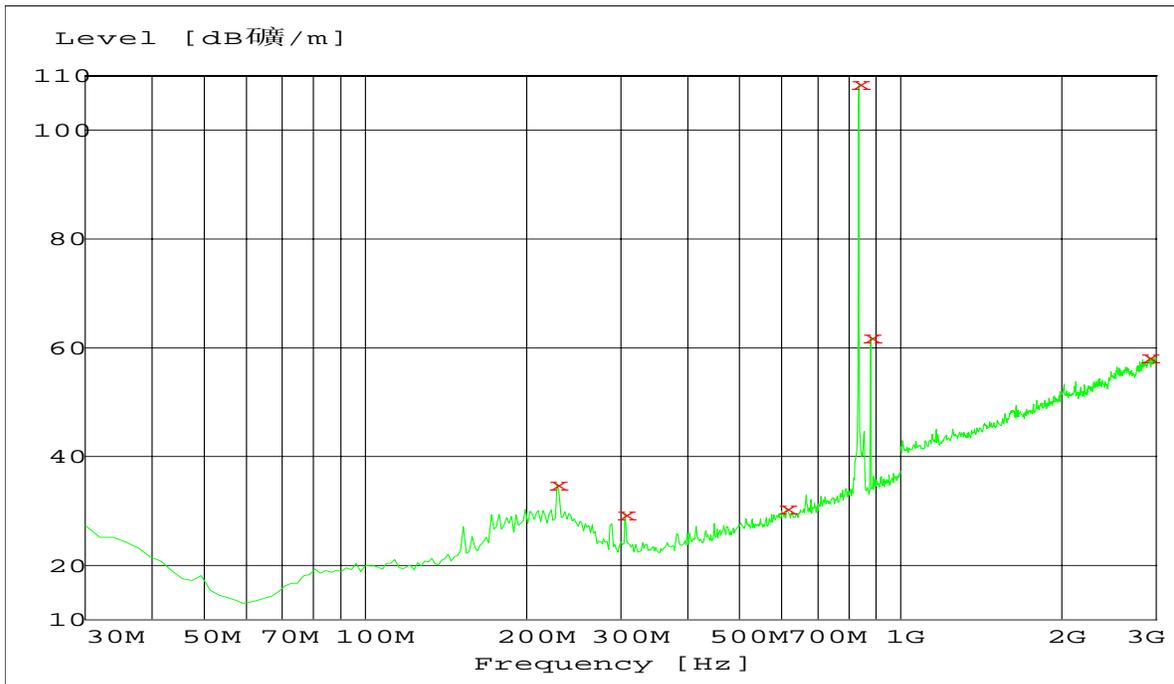
TX Spurious Emission scans 30 MHz – 20GHz (TX) Middle (600) channel (1.88GHz)

| Indicated | | Test Ant. Polar (H/V) | Substituted | | Ant. Gain Correction (dBi) | Cable Loss (dB) | Absolute Level dBm | Limit (dBm) | Margin (dB) |
|----------------|------------------|-----------------------------|----------------|----------------|-------------------------------------|-----------------------|--------------------------|----------------|----------------|
| Freq. (MHz) | Amp. (dBuV/m) | | Freq. (MHz) | Level (dBm) | | | | | |
| 1901.804 | 87.44 | H | 1901.804 | -16.22 | 6.55 | 3.7 | -15.52 | -13 | 2.52 |
| 1901.804 | 87.42 | V | 1901.804 | -19.94 | 6.55 | 3.7 | -19.24 | -13 | 6.24 |
| 1981.964 | 74.68 | H | 1981.964 | -31.92 | 6.55 | 3.8 | -31.32 | -13 | 18.32 |
| 1985.972 | 69.74 | V | 1985.972 | -37.78 | 6.55 | 3.7 | -37.08 | -13 | 24.08 |
| 3000 | 57.53 | H | 3000 | -46.58 | 7.75 | 4.6 | -45.58 | -13 | 32.58 |
| 14216.43 | 58.77 | H | 14216.43 | -46.55 | 9.65 | 10.7 | -49.75 | -13 | 36.75 |

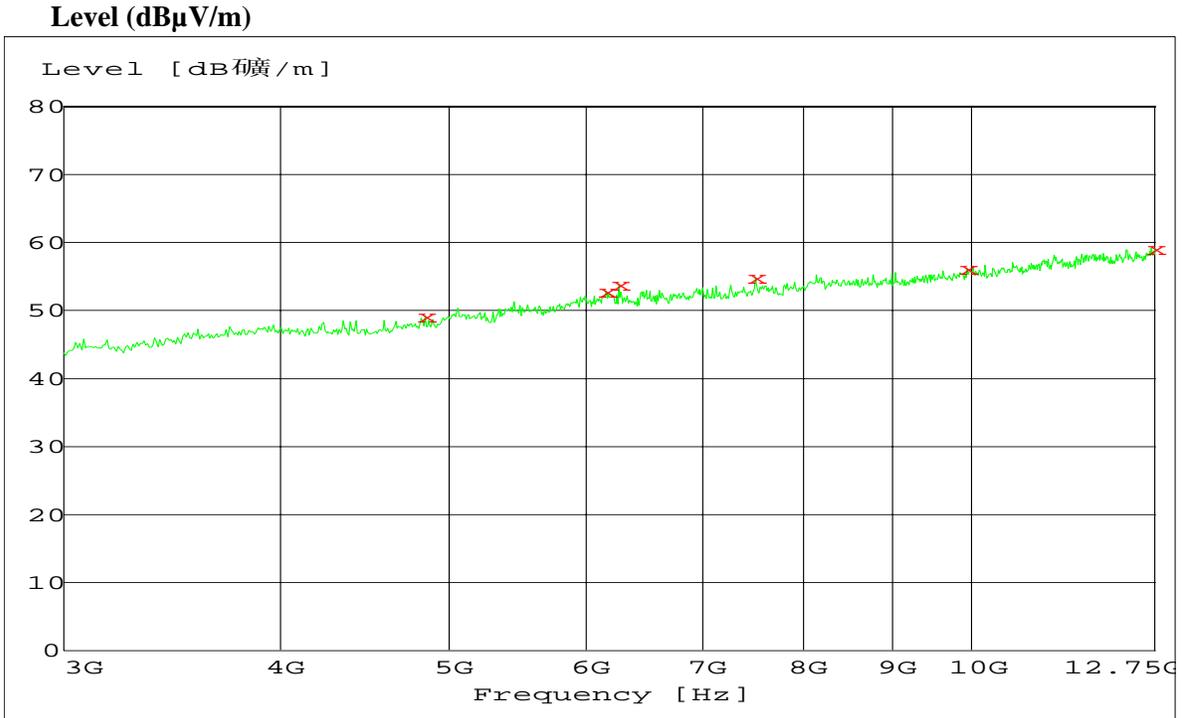
Cellular Band (30 MHz~3GHz) Vertical



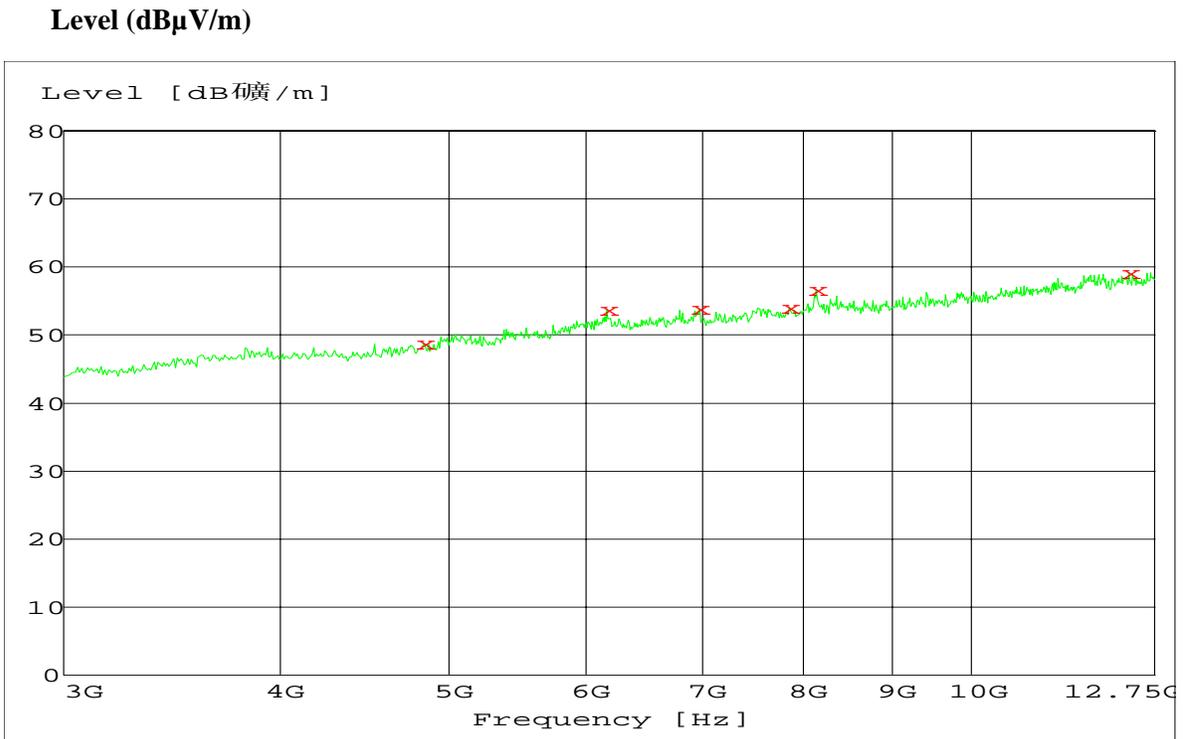
Cellular Band (30 MHz~3 GHz) Horizontal



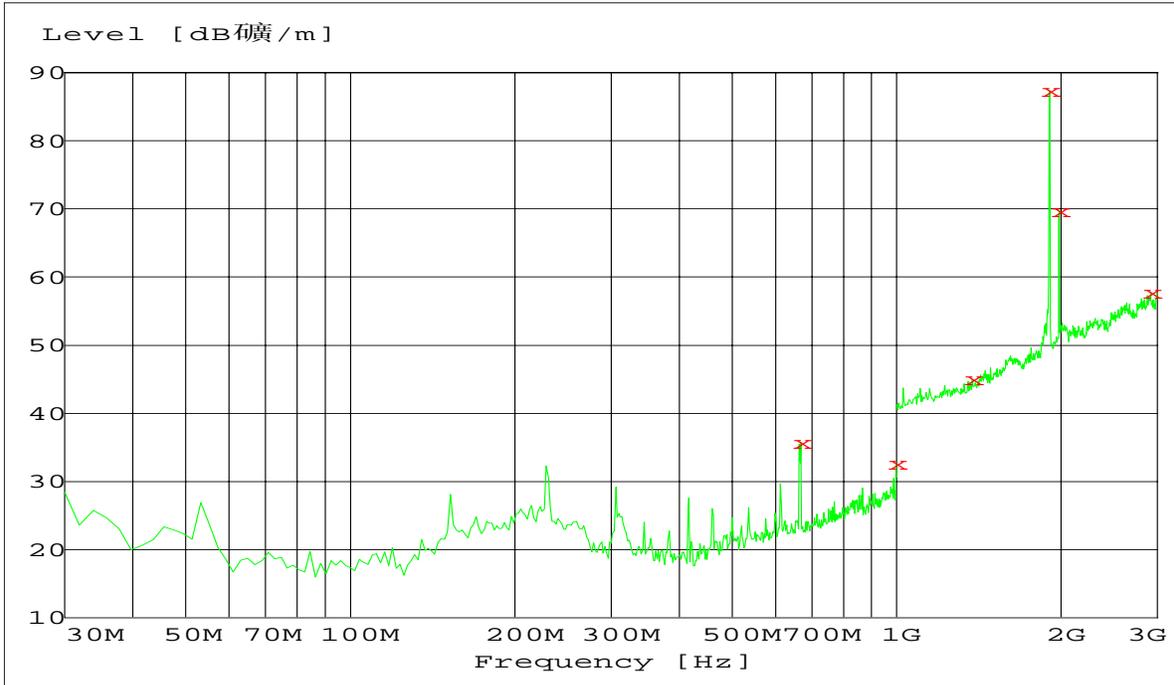
Cellular Band (3 GHz~12.75 GHz) Vertical



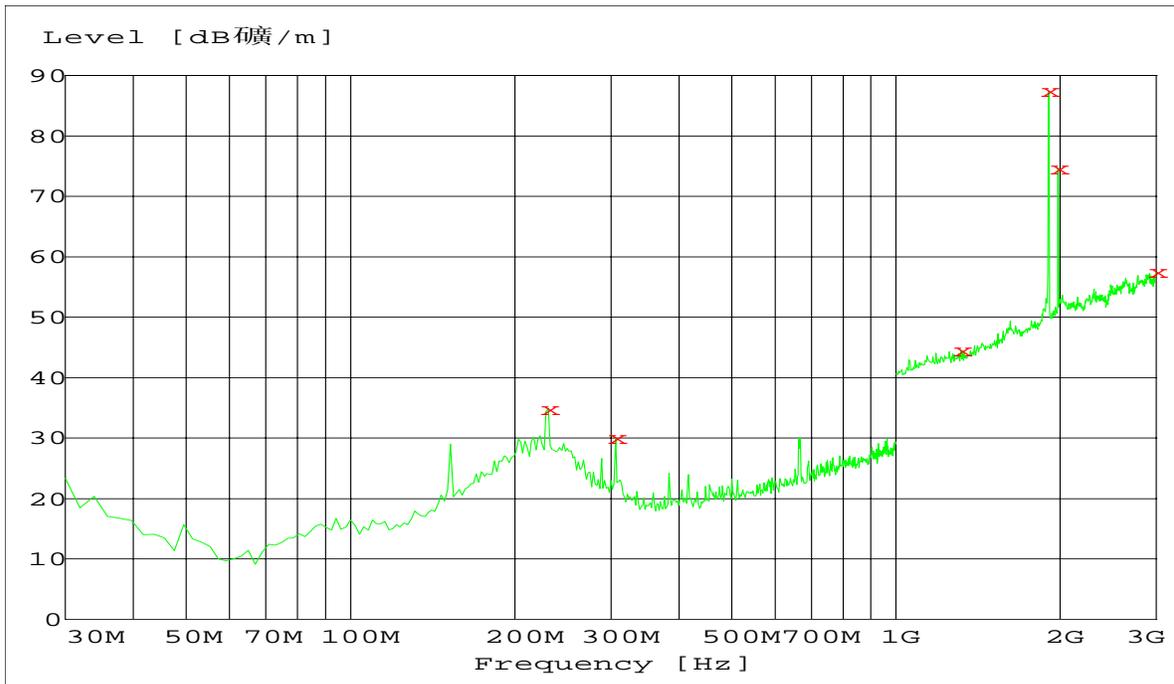
Cellular Band (3 GHz~12.75 GHz) Horizontal



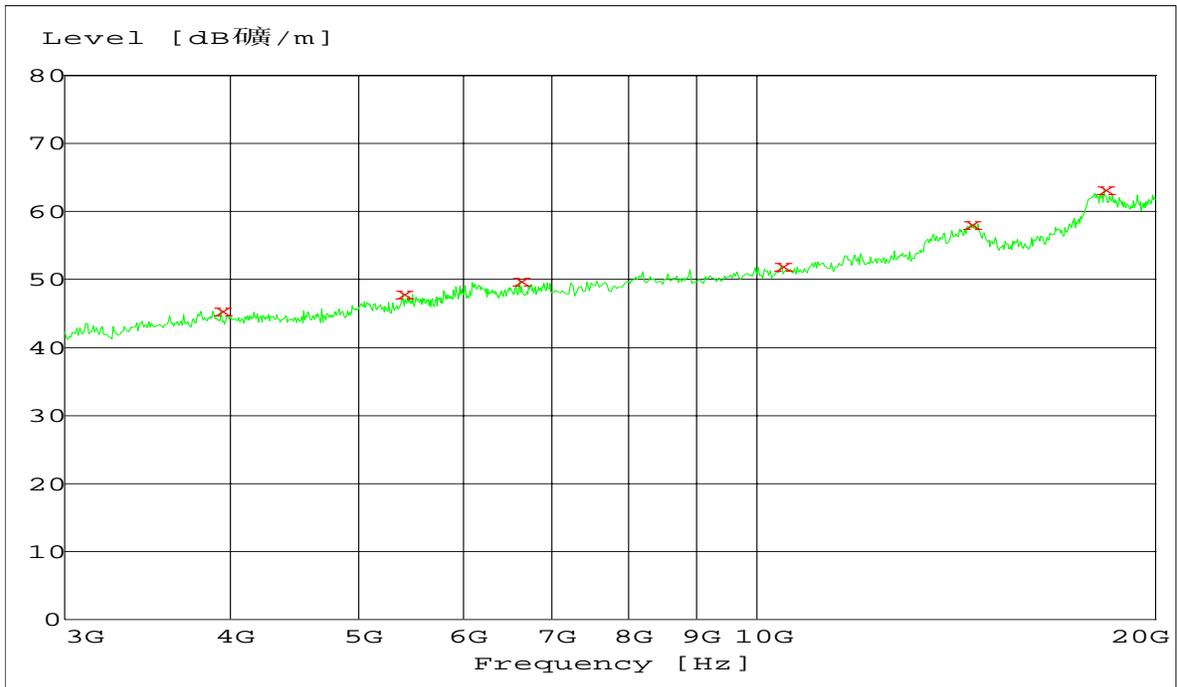
PCS Band (30 MHz~3 GHz) Vertical



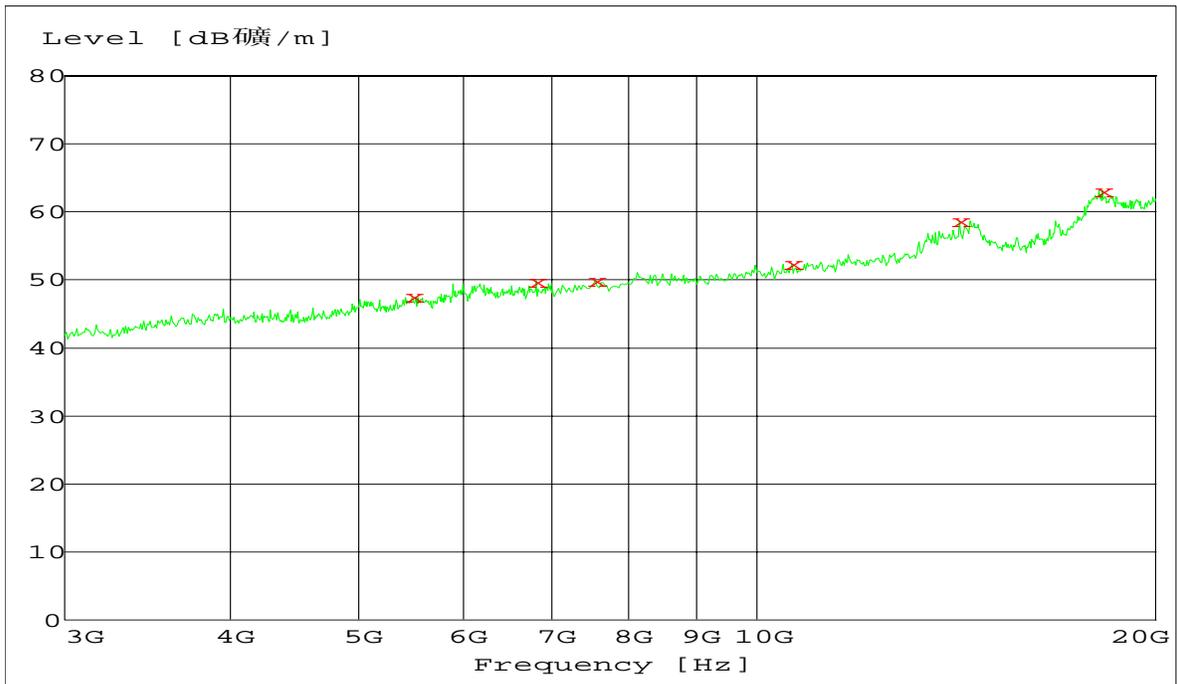
PCS Band (30 MHz~3 GHz) Horizontal



PCS Band (3 GHz~20 GHz) Vertical



PCS Band (3 GHz~20 GHz) Horizontal



6 §2.1046, §22.913(a) &24.232(c)– RF OUTPUT POWER

6.1 Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC §2.1046 and §24.232 (c), in no case may the peak output power of a base station transmitter exceed 2 watt.

6.2 Test Procedure

Conducted:

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

6.3 Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|--------------|---------------------------------|-------------|---------------|------------|
| Agilent | Wireless communication test set | 8960 E5515C | GB42431673 | 2008-01-19 |
| Agilent | Spectrum Analysis | E4405B | MY41440292 | 2008-01-19 |

*** Statement of Traceability: ZTE Corporation Reliability Testing Center** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

6.4 Environmental Conditions

| | |
|---------------------------|----------|
| Temperature: | 20° C |
| Relative Humidity: | 55% |
| ATM Pressure: | 1018mbar |

** The testing was performed by Guan bin on 2008-05-05*

6.5 Test Results

Part22H:

CDMA1XRTT

| Band | Channel | CDMA2000 RC | SO2 (dBm) | SO9 (dBm) | SO32(+SCH) (dBm) | SO32(+F-SCH) (dBm) | SO55 (dBm) |
|----------|---------|-------------|-----------|-----------|------------------|--------------------|------------|
| Cellular | 1013 | (Fwd1,Rvs1) | 23.50 | / | / | / | 23.50 |
| | | (Fwd2,Rvs2) | / | 23.20 | / | / | 23.20 |
| | | (Fwd3,Rvs3) | 23.66 | / | 23.78 | 23.67 | 23.66 |
| | | (Fwd4,Rvs3) | 23.50 | / | 23.65 | 23.52 | 23.52 |
| | | (Fwd5,Rvs4) | / | 23.20 | / | / | 23.20 |
| | 384 | (Fwd1,Rvs1) | 23.40 | / | / | / | 23.40 |
| | | (Fwd2,Rvs2) | / | 23.40 | / | / | 23.40 |
| | | (Fwd3,Rvs3) | 23.20 | / | 23.40 | 23.20 | 23.20 |
| | | (Fwd4,Rvs3) | 23.10 | / | 23.20 | 23.10 | 23.10 |
| | | (Fwd5,Rvs4) | / | 23.60 | / | / | 23.60 |
| | 777 | (Fwd1,Rvs1) | 23.20 | / | / | / | 23.20 |
| | | (Fwd2,Rvs2) | / | 23.30 | / | / | 23.30 |
| | | (Fwd3,Rvs3) | 23.13 | / | 23.34 | 23.18 | 23.16 |
| | | (Fwd4,Rvs3) | 23.26 | / | 23.52 | 23.32 | 23.26 |
| | | (Fwd5,Rvs4) | / | 23.32 | / | / | 23.32 |

CDMA1X EVDO REV 0

| Channel | f (MHz) | FTAP Rate (kbps) | Average Power (dBm) |
|---------|---------|------------------|---------------------|
| 1013 | 824.70 | 307.2 | 23.63 |
| 384 | 836.52 | 307.2 | 23.65 |
| 777 | 848.31 | 307.2 | 23.56 |

CDMA1X EVDO REVA

| Channel | f (MHz) | FTAP Rate (kbps) | Average Power (dBm) |
|---------|---------|------------------|---------------------|
| 1013 | 824.70 | 307.2 | 23.58 |
| 384 | 836.52 | 307.2 | 23.62 |
| 777 | 848.31 | 307.2 | 23.56 |

Part24E:

| Band | Channel | CDMA2000 RC | SO2 (dBm) | SO9 (dBm) | SO32(+SCH) (dBm) | SO32(+F-SCH) (dBm) | SO55 (dBm) |
|------|---------|-------------|-----------|-----------|------------------|--------------------|------------|
| PCS | 25 | (Fwd1,Rvs1) | 23.70 | / | / | / | 23.57 |
| | | (Fwd2,Rvs2) | / | 23.62 | / | / | 23.62 |
| | | (Fwd3,Rvs3) | 23.53 | / | 23.68 | 23.58 | 23.65 |
| | | (Fwd4,Rvs3) | 23.15 | / | 23.35 | 23.15 | 23.15 |
| | | (Fwd5,Rvs4) | / | 23.28 | / | / | 23.28 |
| | 600 | (Fwd1,Rvs1) | 23.24 | / | / | / | 23.24 |
| | | (Fwd2,Rvs2) | / | 23.50 | / | / | 23.25 |
| | | (Fwd3,Rvs3) | 23.14 | / | 23.18 | 23.16 | 23.35 |
| | | (Fwd4,Rvs3) | 23.52 | / | 23.52 | 23.52 | 23.52 |
| | | (Fwd5,Rvs4) | / | 23.52 | / | / | 23.35 |
| | 1175 | (Fwd1,Rvs1) | 23.40 | / | / | / | 23.40 |
| | | (Fwd2,Rvs2) | / | 23.30 | / | / | 23.30 |
| | | (Fwd3,Rvs3) | 23.52 | / | 23.58 | 23.52 | 23.50 |
| | | (Fwd4,Rvs3) | 23.26 | / | 23.54 | 23.32 | 23.32 |
| | | (Fwd5,Rvs4) | / | 23.38 | / | / | 23.38 |

CDMA1X EVDO REV 0

| Channel | f (MHz) | FTAP Rate (kbps) | Average Power (dBm) |
|---------|---------|------------------|---------------------|
| 25 | 1851.25 | 307.2 | 23.58 |
| 600 | 1880 | 307.2 | 23.55 |
| 1175 | 1908.75 | 307.2 | 23.52 |

CDMA1X EVDO REVA

| Channel | f (MHz) | FTAP Rate (kbps) | Average Power (dBm) |
|---------|---------|------------------|---------------------|
| 1013 | 1851.25 | 307.2 | 23.57 |
| 384 | 1880 | 307.2 | 23.52 |
| 777 | 1908.75 | 307.2 | 23.52 |

Note: The EUT antenna is non-retractable antenna with 0dBi gain, VSWR<2.0 and vertical polarization.

7 §2.1049, §22.917, §22.905, §24.238 - OCCUPIED BANDWIDTH

7.1 Applicable Standard

Requirements: CFR 47, Section 2.1049, Section 22.901, Section 22.917.and Section 24.238

7.2 Test Procedure

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

The resolution bandwidth of the spectrum analyzer was set at 30 kHz and the 26 dB & 99% bandwidth was recorded.

7.3 Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|--------------|---------------------------------|-------------|---------------|------------|
| Agilent | Wireless communication test set | 8960 E5515C | GB42431673 | 2008-01-19 |
| Agilent | Spectrum Analysis | E4405B | MY41440292 | 2008-01-19 |

* **Statement of Traceability: ZTE Corporation Reliability Testing Center** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

7.4 Environmental Conditions

| | |
|---------------------------|----------|
| Temperature: | 20° C |
| Relative Humidity: | 55% |
| ATM Pressure: | 1018mbar |

* *The testing was performed by Guan bin on 2008-05-05*

7.5 Test Results

Part 22H:

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) | -26 dB Bandwidth (MHz) |
|---------|-----------------|---------------------|------------------------|
| Low | 824.7 | 1.2635 | 1.418 |
| Mid | 836.52 | 1.2630 | 1.422 |
| High | 848.31 | 1.2694 | 1.432 |

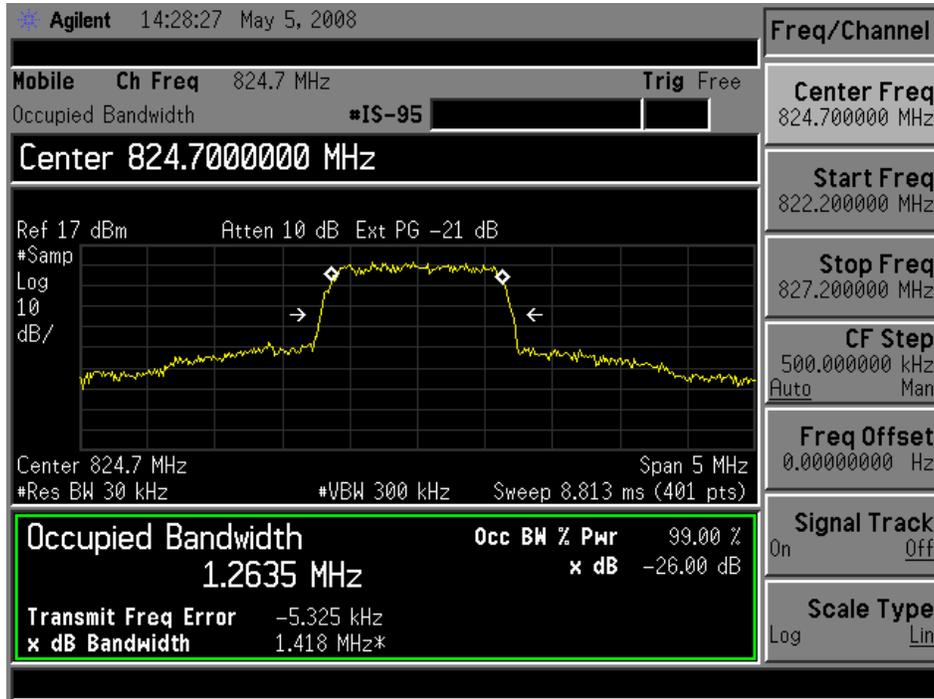
Part 24E:

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) | -26 dB Bandwidth (MHz) |
|---------|-----------------|---------------------|------------------------|
| Low | 1851.25 | 1.2664 | 1.425 |
| Mid | 1880 | 1.2690 | 1.440 |
| High | 1908.75 | 1.2723 | 1.442 |

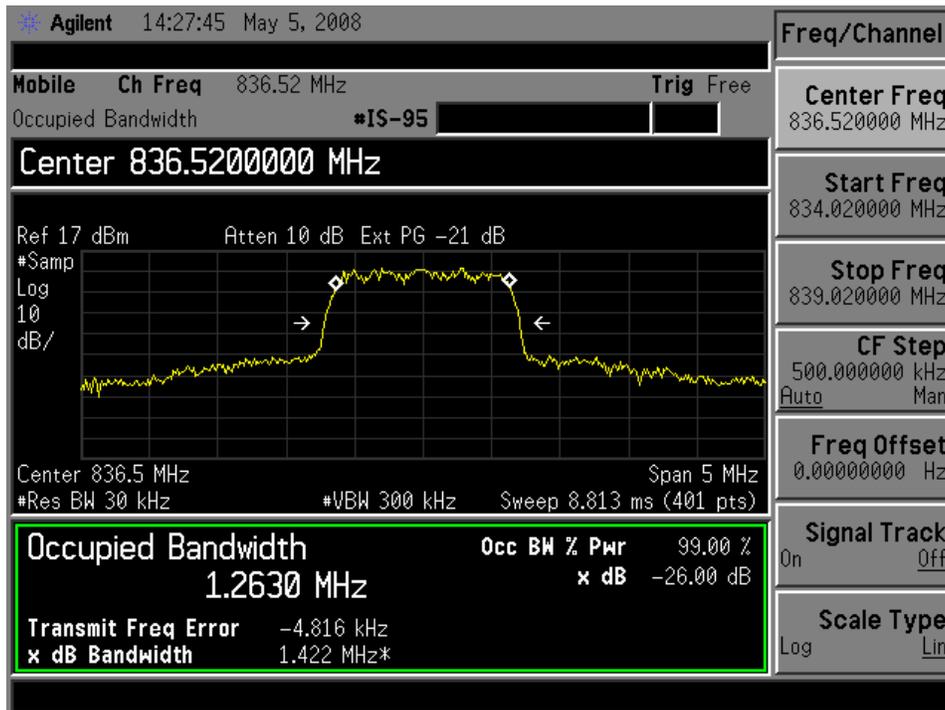
Please refer to the following plots.

Cellular Band:

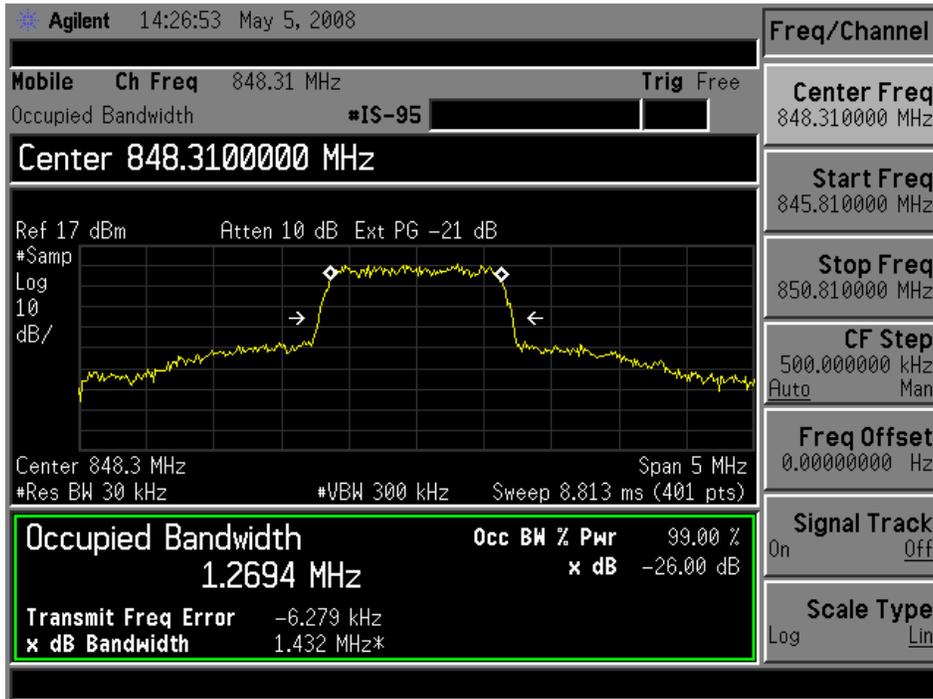
Low Channel



Mid Channel

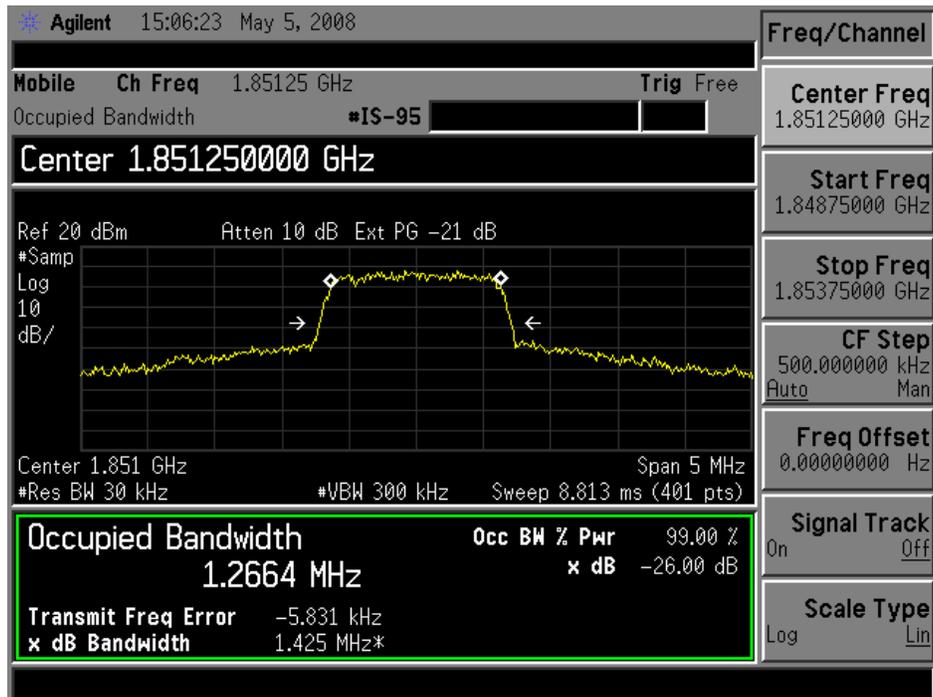


High Channel

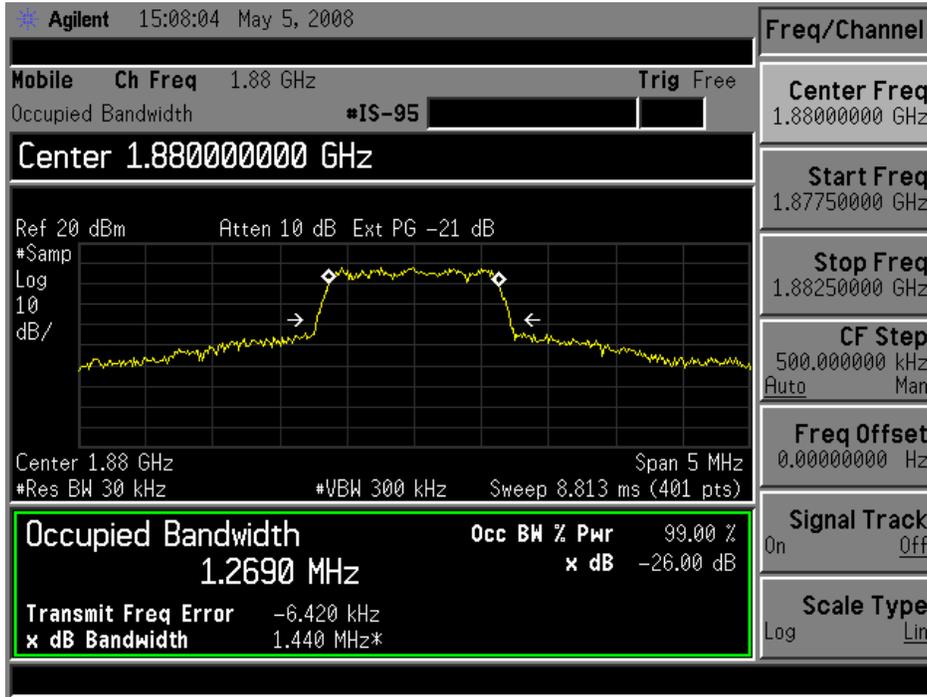


PCS Band

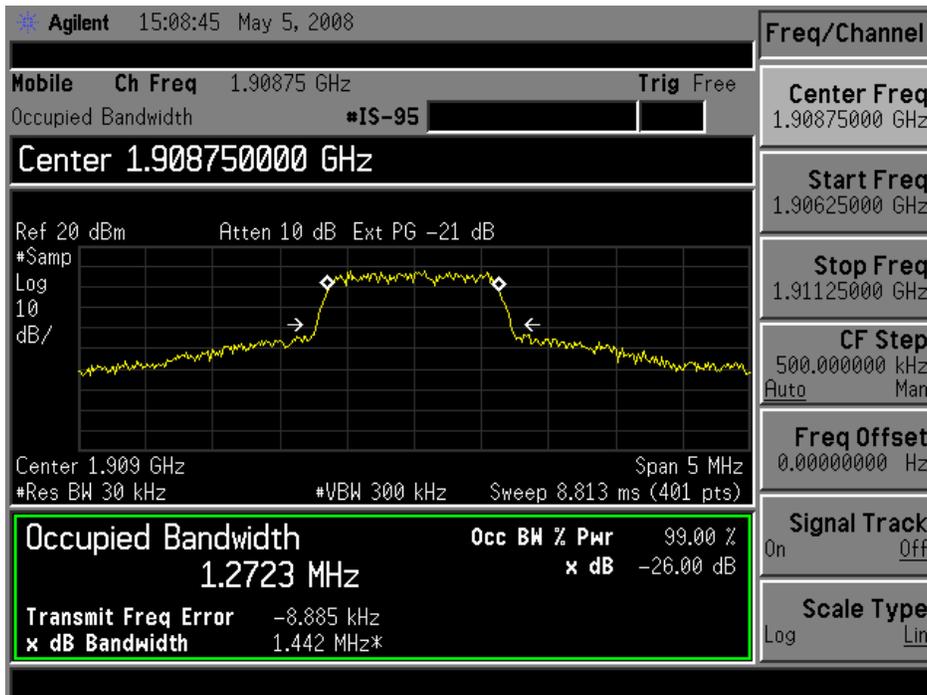
Low Channel



Mid Channel



High Channel



8 §2.1051, §22.917 & §24.238(a) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

8.1 Applicable Standard

Requirements: CFR 47, § 2.1051. § 22.917. & §24.238(a).

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

8.2 Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator 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 10th harmonic.

8.3 Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|--------------|---------------------------------|-------------|---------------|------------|
| Agilent | Wireless communication test set | 8960 E5515C | GB42431673 | 2008-01-19 |
| Agilent | Spectrum Analysis | E4405B | MY41440292 | 2008-01-19 |

* **Statement of Traceability:** ZTE Corporation Reliability Testing Center attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

8.4 Environmental Conditions

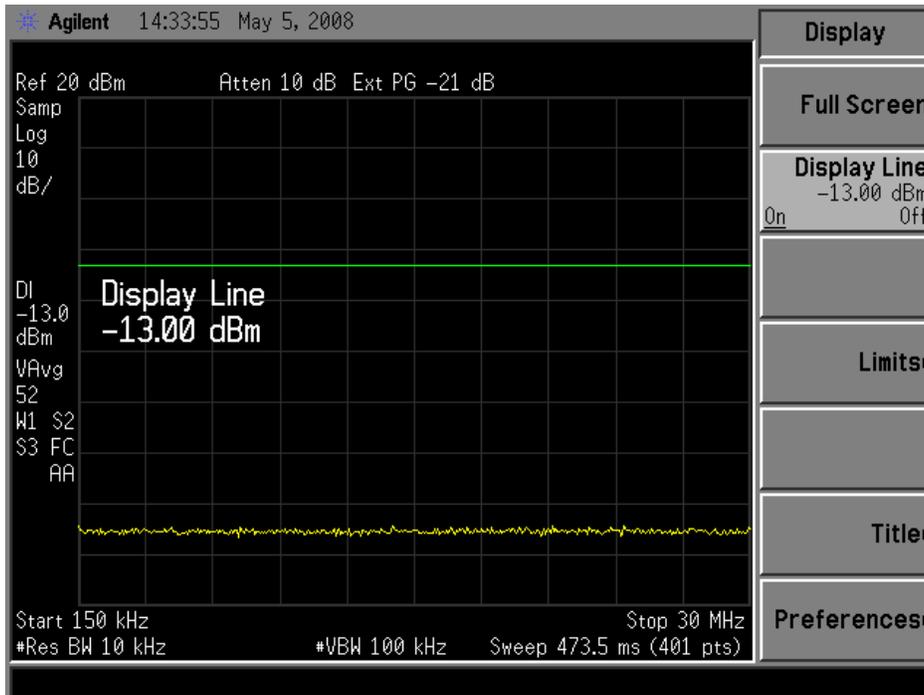
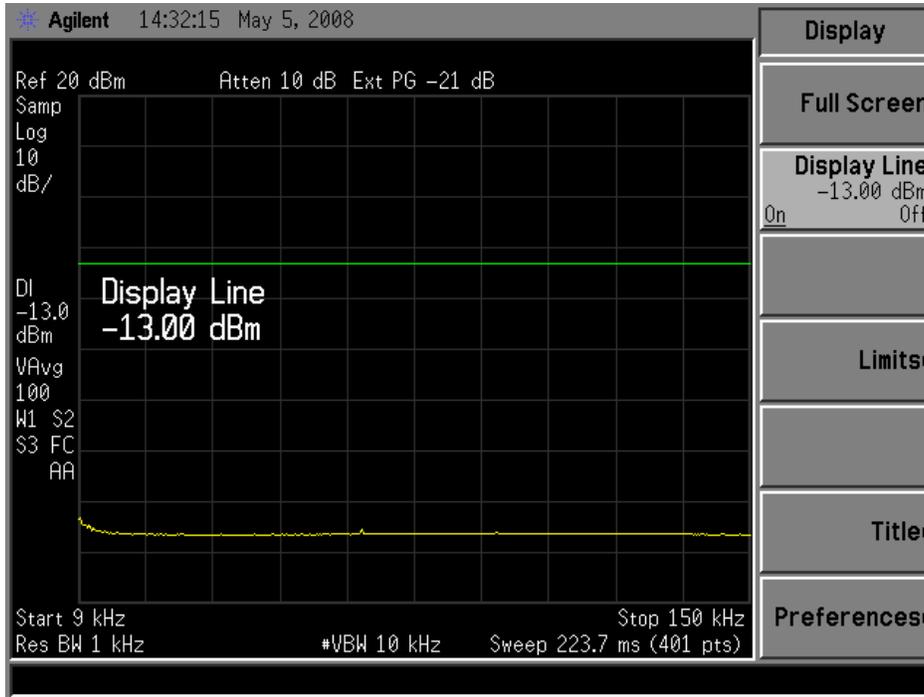
| | |
|---------------------------|----------|
| Temperature: | 20° C |
| Relative Humidity: | 55% |
| ATM Pressure: | 1018mbar |

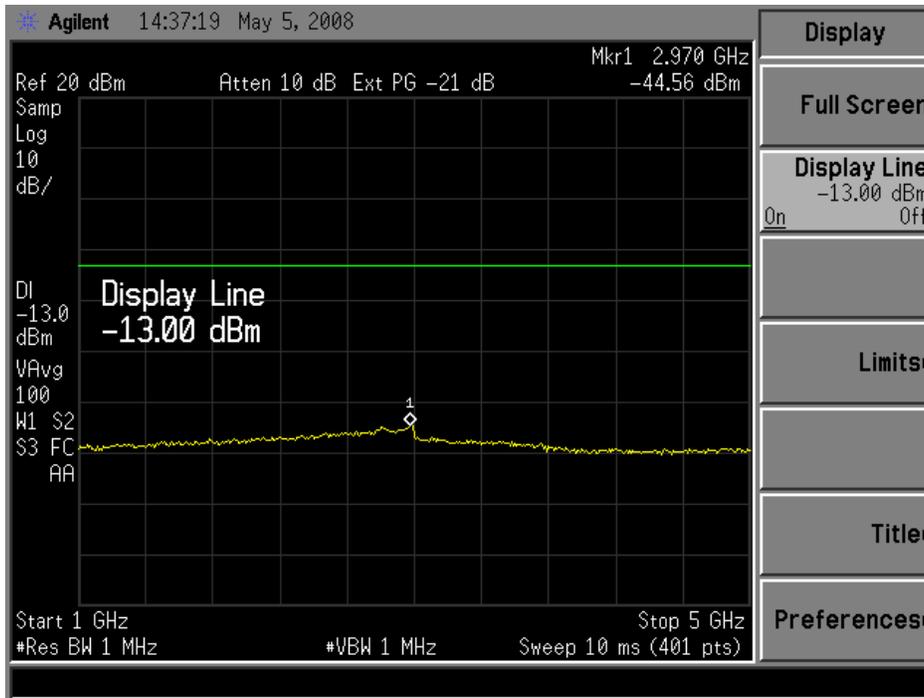
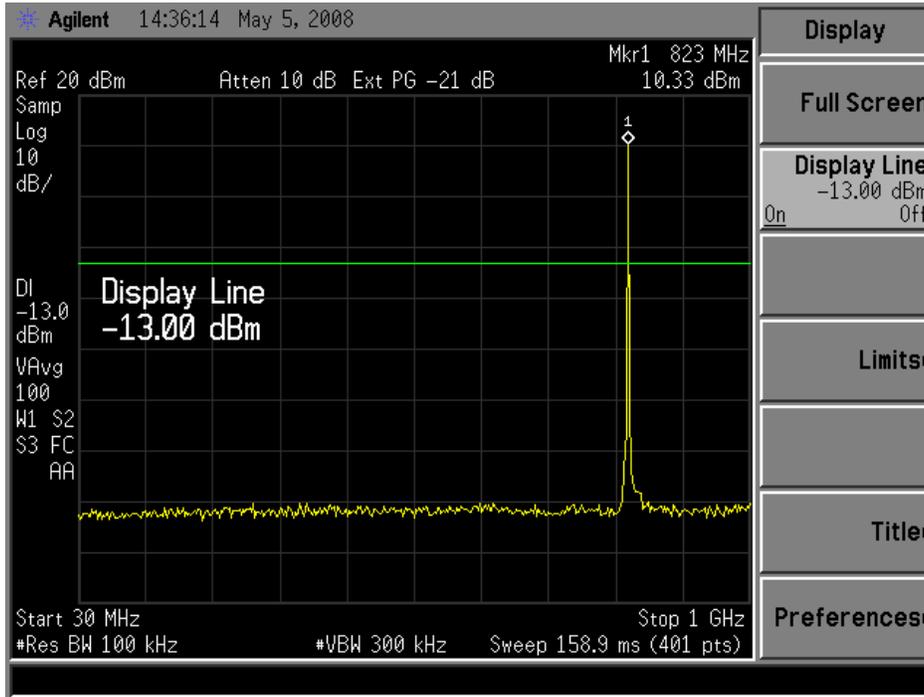
* The testing was performed by Guan bin on 2008-05-05

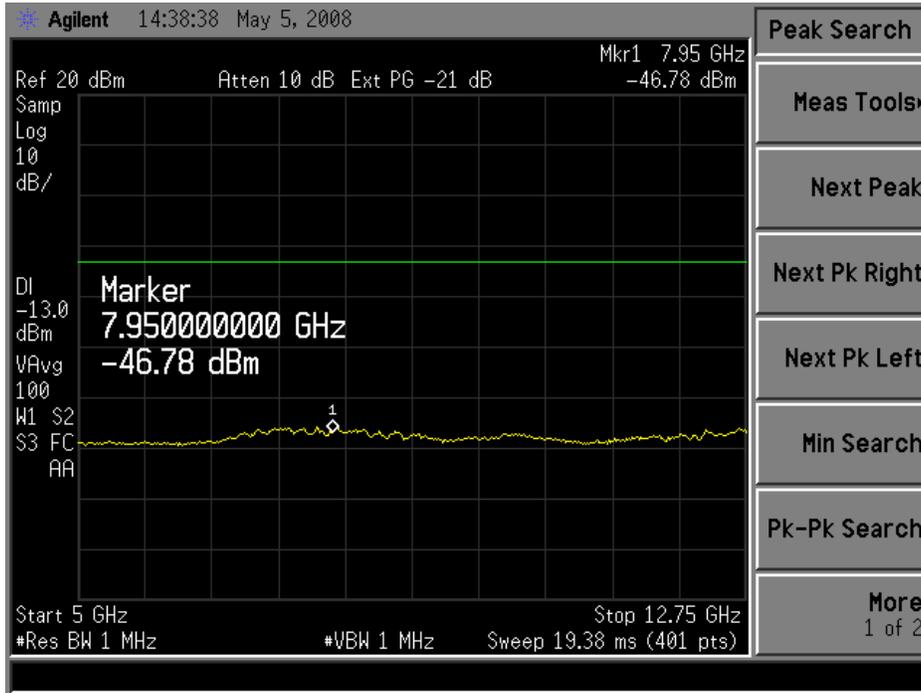
8.5 Test Results

Please refer to the hereinafter plots.

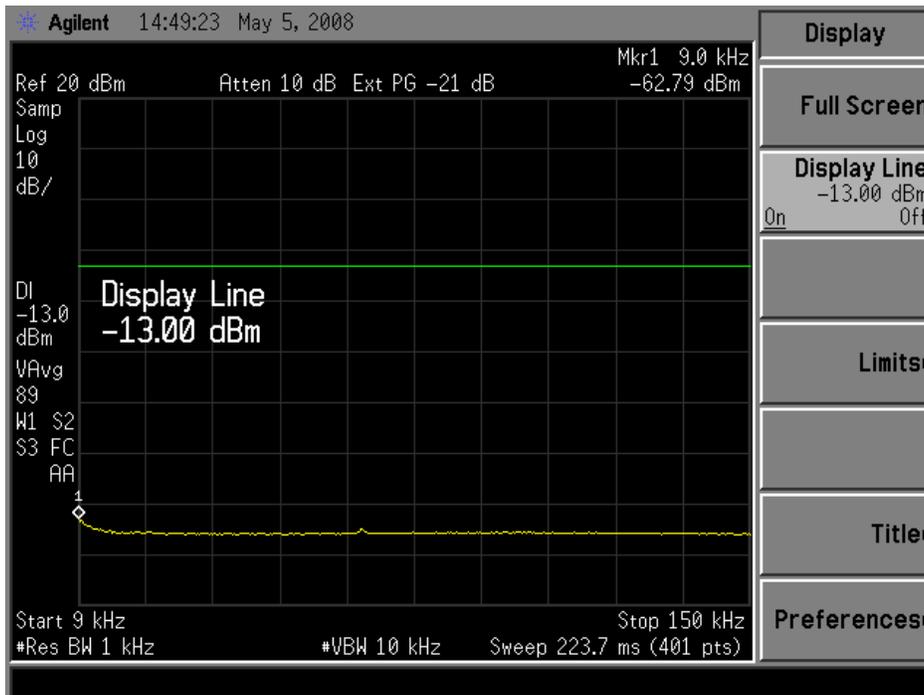
Plots of Spurious Emission for Part 22H

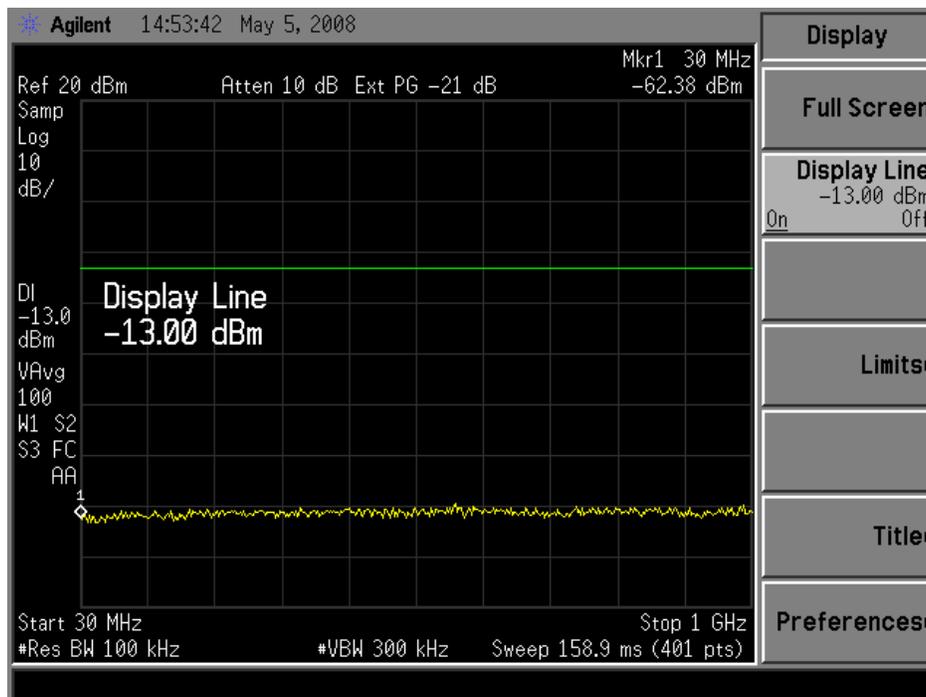
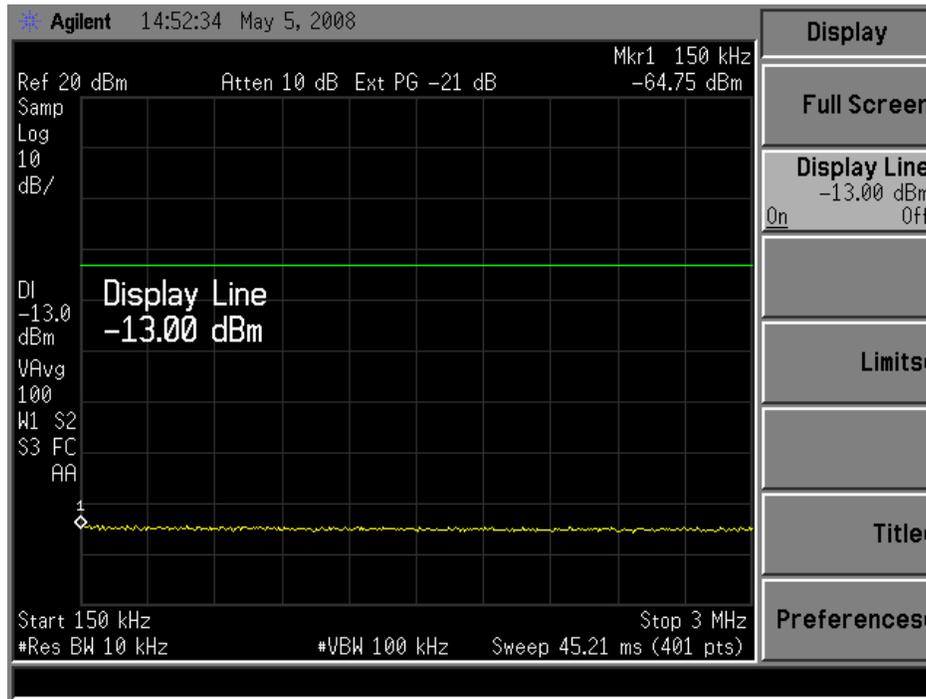


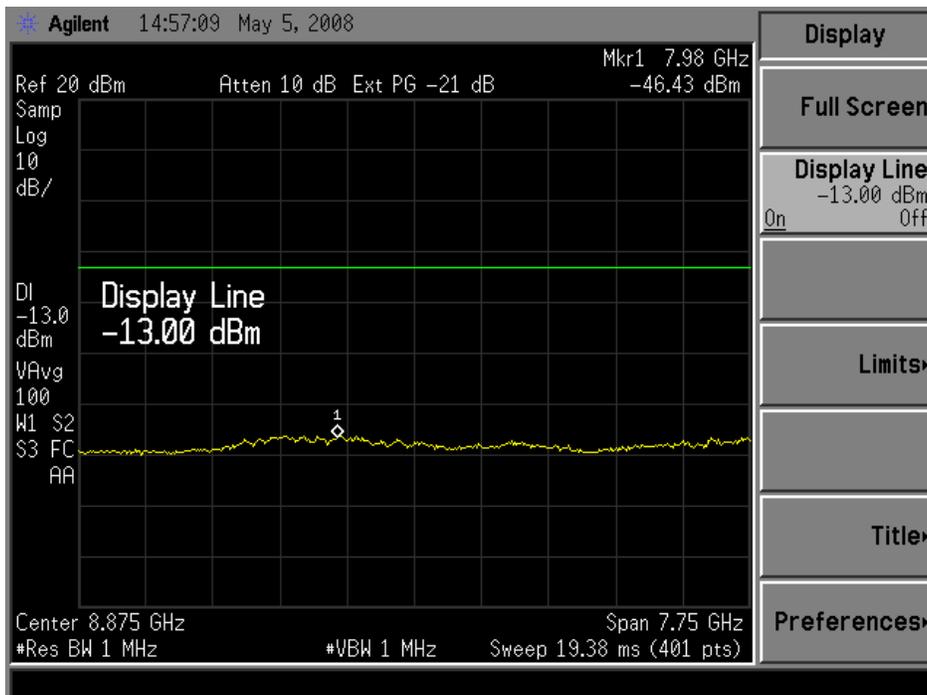
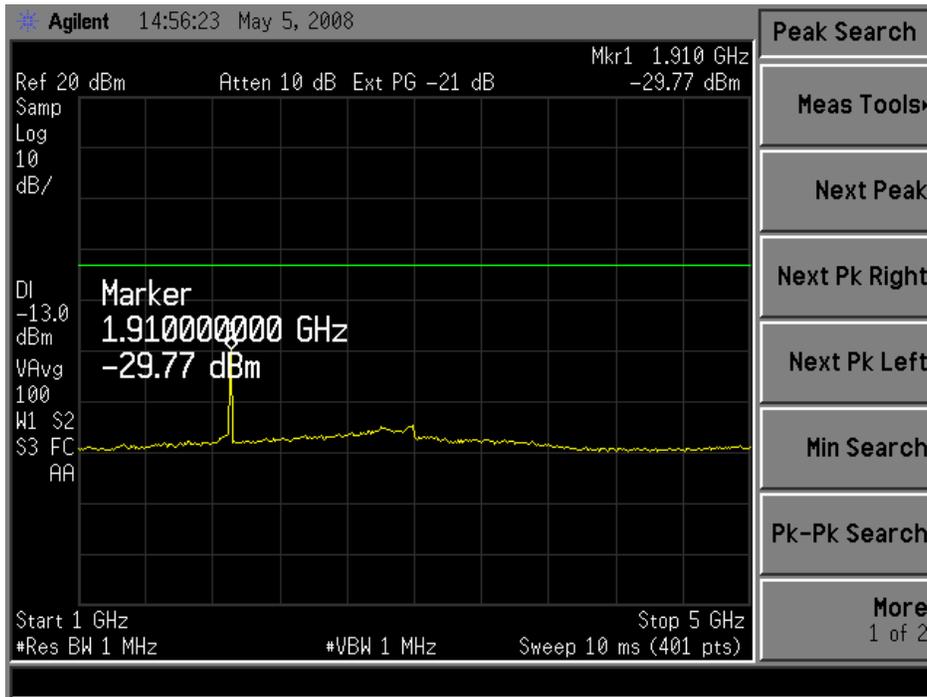




Plots of Spurious Emission for Part24







9 §2.1055 (a), §2.1055 (d), §22.355 & §24.235- FREQUENCY STABILITY

9.1 Applicable Standard

Requirements: FCC § 2.1055 (a), § 2.1055 (d) & following:

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1_Frequency Tolerance for Transmitters in the Public Mobile Services

| Frequency range (MHz) | Base, fixed (ppm) | Mobile [e]3 watts (ppm) | Mobile [e]3 watts (ppm) |
|-----------------------|-------------------|-------------------------|-------------------------|
| 25 to 50..... | 20.0 | 20.0 | 50.0 |
| 50 to 450..... | 5.0 | 5.0 | 50.0 |
| 450 to 512..... | 2.5 | 5.0 | 5.0 |
| 821 to 896..... | 1.5 | 2.5 | 2.5 |
| 928 to 929..... | 5.0 | n/a | n/a |
| 929 to 960..... | 1.5 | n/a | n/a |
| 2110 to 2220..... | 10.0 | n/a | n/a |

According to §24.235, The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

9.2 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 communication test set 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 communication test set.

9.3 Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|--------------|---------------------------------|-------------|---------------|------------|
| Agilent | Wireless communication test set | 8960 E5515C | GB42431673 | 2008-01-19 |
| Agilent | Spectrum Analysis | E4405B | MY41440292 | 2008-01-19 |
| Wuxi | Temperature Oven | GDW-0100 | G30064 | 2008-01-19 |

* **Statement of Traceability: ZTE Corporation Reliability Testing Center** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

9.4 Environmental Conditions

| | |
|---------------------------|----------|
| Temperature: | 20° C |
| Relative Humidity: | 55% |
| ATM Pressure: | 1018mbar |

* The testing was performed by Guan bin on 2008-05-05

9.5 Test Results

Part 22H:

| Reference Frequency: 836.52MHz, Limit: 2.5ppm | | | | |
|--|-----------------------------|------------------------------|----------------------------|--------------------|
| Test Environment | | Frequency Error (Hz) | Measurement Results | |
| Temperature (°C) | Power Supplied (Vdc) | | Error (ppm) | Limit (ppm) |
| 50 | 3.7 | 4 | 0.0047817 | 2.5 |
| 40 | 3.7 | 3.8 | 0.00454263 | 2.5 |
| 30 | 3.7 | 2.7 | 0.00322766 | 2.5 |
| 20 | 3.7 | 0.6 | 0.00071725 | 2.5 |
| 10 | 3.7 | 0.5 | 0.00059771 | 2.5 |
| 0 | 3.7 | 3.8 | 0.00454263 | 2.5 |
| -10 | 3.7 | 2.5 | 0.00298857 | 2.5 |
| -20 | 3.7 | 5.3 | 0.00633577 | 2.5 |
| -30 | 3.7 | 5.2 | 0.00621622 | 2.5 |

Part 24E:

| Reference Frequency: 1880 MHz, Limit: 2.5ppm | | | | |
|---|-----------------------------|------------------------------|----------------------------|--------------------|
| Test Environment | | Frequency Error (Hz) | Measurement Results | |
| Temperature (°C) | Power Supplied (Vdc) | | Error (ppm) | Limit (ppm) |
| 50 | 3.4 | 4.6 | 0.00549897 | 2.5 |
| 40 | 3.4 | 4.2 | 0.0050208 | 2.5 |
| 30 | 3.4 | 2.5 | 0.00298857 | 2.5 |
| 20 | 3.4 | 0.5 | 0.00059771 | 2.5 |
| 10 | 3.4 | 1.6 | 0.00285573 | 2.5 |
| 0 | 3.4 | 3.8 | 0.00454263 | 2.5 |
| -10 | 3.4 | 2.8 | 0.00615080 | 2.5 |
| -20 | 3.4 | 3.8 | 0.0033472 | 2.5 |
| -30 | 3.4 | 5 | 0.00597714 | 2.5 |

10 §22.917 & §24.238 – BAND EDGE

10.1 Applicable Standard

According to § 22.917, 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.

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.

10.2 Test Procedure

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

The center of the spectrum analyzer was set to block edge frequency, RBW set to 10 kHz.

10.3 Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|--------------|---------------------------------|-------------|---------------|------------|
| Agilent | Wireless communication test set | 8960 E5515C | GB42431673 | 2008-01-19 |
| Agilent | Spectrum Analysis | E4405B | MY41440292 | 2008-01-19 |

* **Statement of Traceability:** ZTE Corporation Reliability Testing Center attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

10.4 Environmental Conditions

| | |
|---------------------------|----------|
| Temperature: | 20° C |
| Relative Humidity: | 55% |
| ATM Pressure: | 1018mbar |

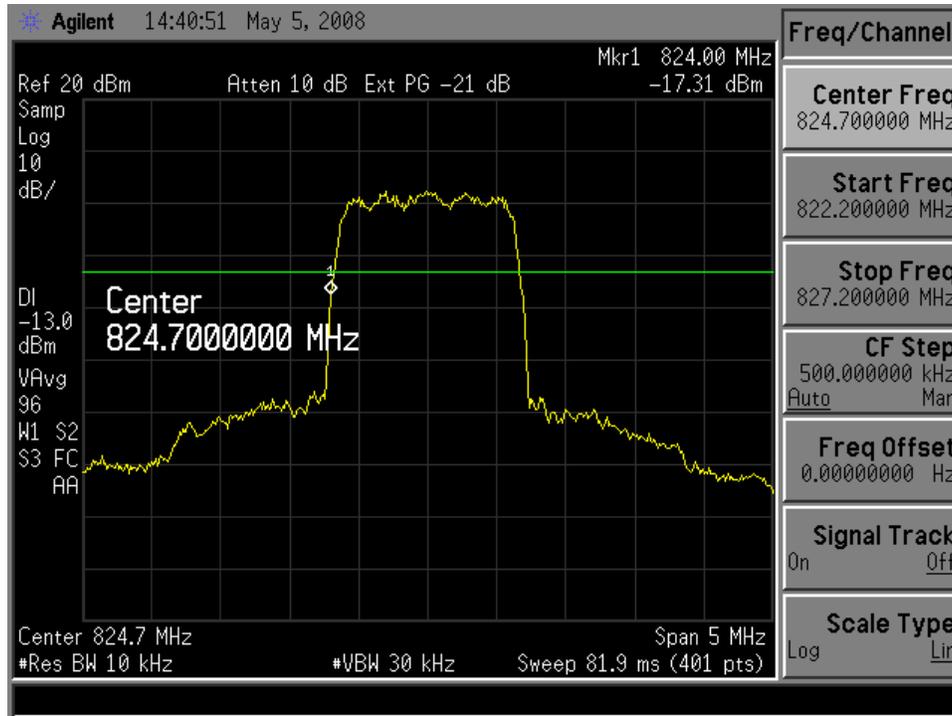
* The testing was performed by Guan bin on 2008-05-05

10.5 Test Results

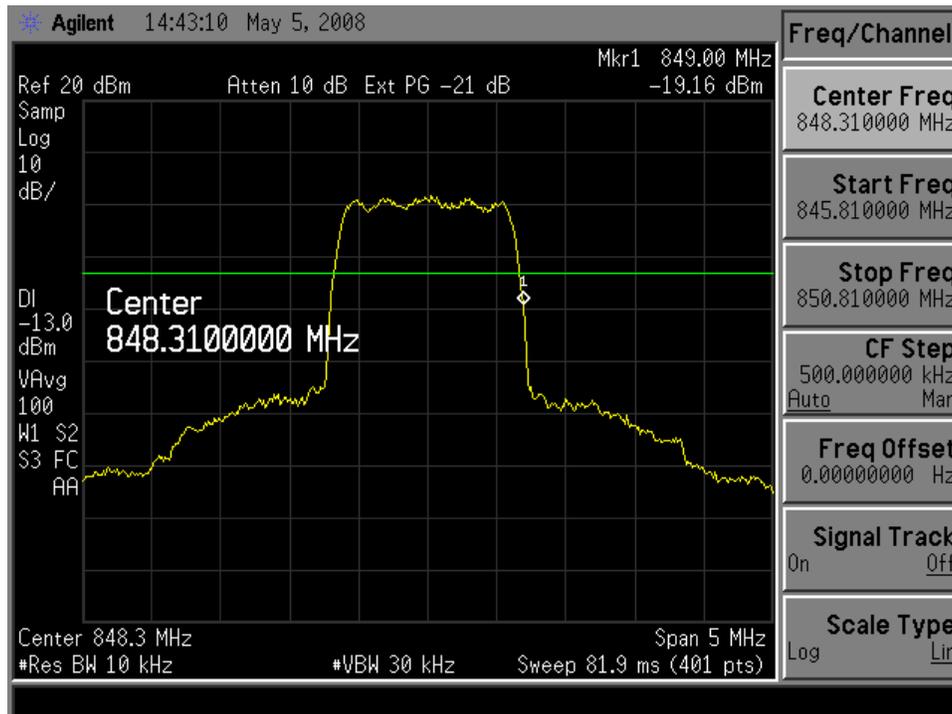
Please refer to the following plots.

Plots of Band Edge for Part 22H

Lowest Channel

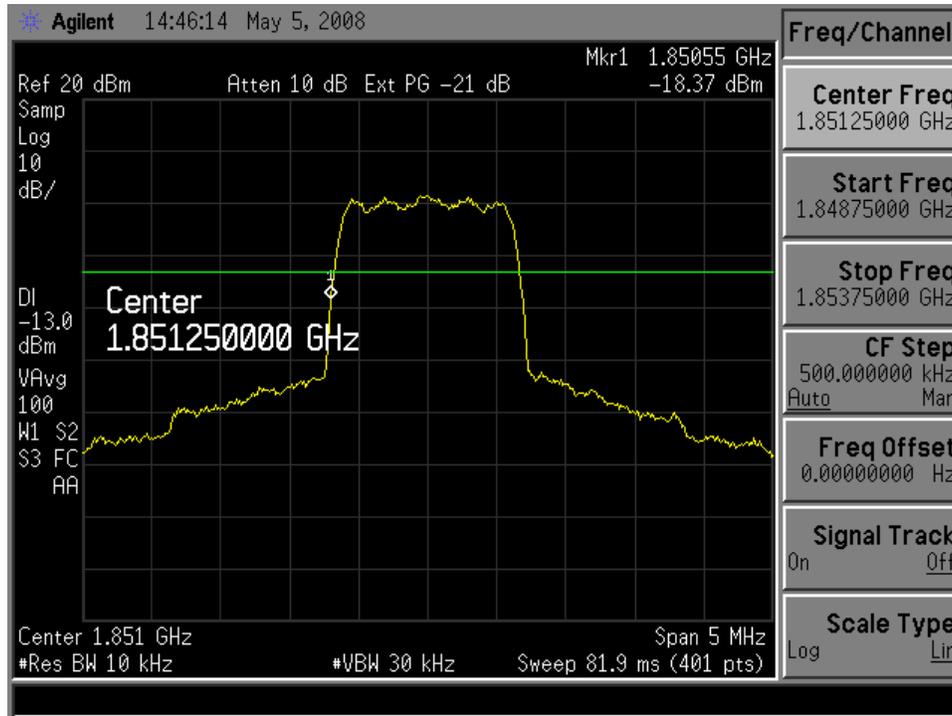


Highest Channel



Plots of Band Edge for Part 24E

Lowest Channel



Highest Channel

