



# FCC PARTIAL TEST REPORT

for

## 47 CFR Part 22H, 24E

**Equipment** : Notebook Computer  
**Trade Name** : Acer  
**Model No.** : LD1, TravelMate 6592 series  
**FCC ID** : HLZLD13G  
**Tx Frequency Range** : GSM850 : 824.2~848.8 MHz  
PCS1900 : 1850.2~1909.8 MHz  
WCDMA Band V : 826.4~846.6 MHz  
WCDMA Band II : 1852.4~1907.6 MHz  
**Emission Designator** : GSM : 300KGXW  
EDGE : 300KG7W  
WCDMA : 4M22F9W  
**Applicant** : Acer Inc.  
8F, 88, Sec.1, Hsin Tai Wu Rd. Hsichih Taipei Hsien 221  
Taiwan, R.O.C.

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- The data shown in this test report were carried out on Sep. 01, 2007 at **Sporton International Inc. LAB.**
- Report No.: FG780814, Report Version: Rev. 01.

Jones Tsai  
Manager

**SPORTON International Inc.**

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.



## Table of Contents

|                                                           |           |
|-----------------------------------------------------------|-----------|
| <b>History of this test report .....</b>                  | <b>ii</b> |
| <b>1. General Information.....</b>                        | <b>1</b>  |
| 1.1. Applicant.....                                       | 1         |
| 1.2. Manufacturer .....                                   | 1         |
| 1.3. Basic Description of Equipment under Test.....       | 1         |
| 1.4. Feature of Equipment under Test.....                 | 2         |
| 1.5. Report Date .....                                    | 2         |
| <b>2. Test Configuration of Equipment under Test.....</b> | <b>3</b>  |
| 2.1. Test Manner .....                                    | 3         |
| 2.2. Test Mode.....                                       | 3         |
| 2.3. Connection Diagram of Test System .....              | 3         |
| 2.4. Ancillary Equipment List .....                       | 3         |
| <b>3. General Information of Test Site .....</b>          | <b>4</b>  |
| 3.1. Test Voltage .....                                   | 4         |
| 3.2. Test Compliance.....                                 | 4         |
| 3.3. Frequency Range .....                                | 4         |
| 3.4. Test Distance.....                                   | 4         |
| <b>4. Test Data and Test Result.....</b>                  | <b>5</b>  |
| 4.1. List of Measurements and Examinations .....          | 5         |
| 4.2. Field Strength of Spurious Radiation .....           | 6         |
| <b>5. List of Measurement Equipments .....</b>            | <b>43</b> |
| <b>6. Uncertainty Evaluation.....</b>                     | <b>44</b> |

**Appendix A - External Photographs**

**Appendix B - Internal Photographs**

**Appendix C - Setup Photographs**



### History of this test report

Report Issue Date: Sep. 04, 2007

| Report No. | Description |
|------------|-------------|
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## 1. General Information

### 1.1. Applicant

**Acer Inc.**

8F, 88, Sec.1, Hsin Tai Wu Rd. Hsichih Taipei Hsien 221 Taiwan, R.O.C.

### 1.2 Manufacturer

**Inventec Corporation**

Inventec Building, 66 Hou-Kang street Shih-Lin District, Taipei 111, Taiwan

### 1.3 Basic Description of Equipment under Test

|                   |                           |                                                |
|-------------------|---------------------------|------------------------------------------------|
| <b>Equipment</b>  |                           | Notebook Computer                              |
| <b>Trade Name</b> |                           | Acer                                           |
| <b>Model No.</b>  |                           | LD1, TravelMate 6592 series                    |
| <b>FCC ID</b>     |                           | HLZLD13G                                       |
| <b>AC Adapter</b> | <b>Brand Name</b>         | DELTA                                          |
|                   | <b>Model Name</b>         | ADP-90SB BB                                    |
|                   | <b>Power Rating</b>       | I/P: 100-240V, 50-60Hz, 1.5A ; O/P: 19V, 4.74A |
|                   | <b>AC Power Cord Type</b> | 1.6 meter shielded cable with ferrite core     |
| <b>Battery</b>    | <b>Brand Name</b>         | Simplo                                         |
|                   | <b>Model Name</b>         | CONIS72                                        |
|                   | <b>Rating</b>             | 14.8V, 4800mAh                                 |
|                   | <b>Type</b>               | Li-ion                                         |

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.

**1.4 Feature of Equipment under Test**

|                                      |                                                                                                                        |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>DUT Type :</b>                    | Notebook Computer                                                                                                      |
| <b>Trade Name :</b>                  | Acer                                                                                                                   |
| <b>Model Name :</b>                  | LD1, TravelMate 6592 series                                                                                            |
| <b>FCC ID :</b>                      | HLZLD13G                                                                                                               |
| <b>Tx Frequency :</b>                | GSM850 : 824 ~ 849 MHz<br>PCS1900 : 1850 ~1910 MHz<br>WCDMA Band V : 824 ~ 849 MHz<br>WCDMA Band II : 1850 ~ 1910 MHz  |
| <b>Rx Frequency :</b>                | GSM850 : 869 ~ 894 MHz<br>PCS1900 : 1930 ~ 1990 MHz<br>WCDMA Band V : 869 ~ 894 MHz<br>WCDMA Band II : 1930 ~ 1990 MHz |
| <b>Antenna Type</b>                  | Retractable Antenna                                                                                                    |
| <b>HW Version</b>                    | 3.0                                                                                                                    |
| <b>SW Version</b>                    | 3.0                                                                                                                    |
| <b>FW Version</b>                    | 1.8.0                                                                                                                  |
| <b>Digital Modulation Emission :</b> | GSM / GPRS : GMSK<br>EDGE : 8PSK<br>WCDMA / HSDPA : QPSK                                                               |
| <b>Type of Emission :</b>            | GSM : 300KGXW<br>EDGE : 300KG7W<br>WCDMA : 4M22F9W                                                                     |

**1.5 Report Date**

EUT Received : Aug. 08, 2007

Report Date : Sep. 04, 2007

## 2 Test Configuration of Equipment under Test

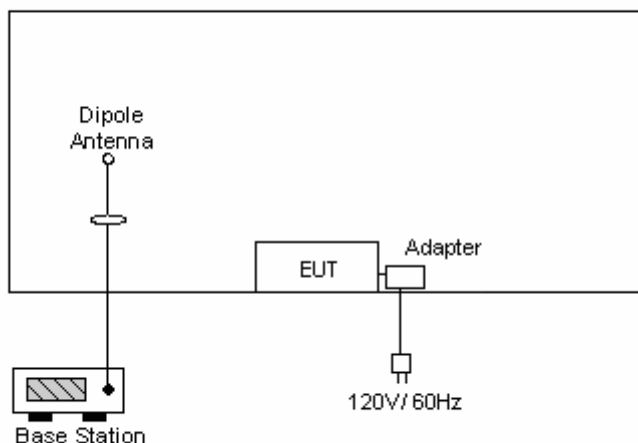
### 2.1 Test Manner

- The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- During all testings, EUT is in link mode with base station emulator at maximum power level.
- Frequency range investigated: radiated emission 30 MHz to 9000 MHz for GSM850 and WCDMA Band V; 30MHz to 19000 MHz for PCS1900 and WCDMA Band II.

### 2.2 Test Mode

| Application       | GSM850                                                | PCS1900                                               | WCDMA Band V                                           | WCDMA Band II                                          |
|-------------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Radiated Emission | <input checked="" type="checkbox"/> Mode 1: GPRS Link | <input checked="" type="checkbox"/> Mode 3: GPRS Link | <input checked="" type="checkbox"/> Mode 5: WCDMA Link | <input checked="" type="checkbox"/> Mode 7: WCDMA Link |
|                   | <input checked="" type="checkbox"/> Mode 2: EDGE Link | <input checked="" type="checkbox"/> Mode 4: EDGE Link | <input checked="" type="checkbox"/> Mode 6: HSDPA Link | <input checked="" type="checkbox"/> Mode 8: HSDPA Link |

### 2.3 Connection Diagram of Test System



### 2.4 Ancillary Equipment List

| Item | Equipment    | Trade Name | Model No. | FCC ID | Serial No. |
|------|--------------|------------|-----------|--------|------------|
| 1.   | Base Station | R&S        | CMU200    | N/A    | 106656     |



### **3. General Information of Test Site**

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,  
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.  
TEL : 886-3-327-3456  
FAX : 886-3-318-0055  
Test Site No : 03CH06-HY

The chamber meets the characteristics of ANSI C63.4-2003. This site is on file with the FCC.

#### **3.1 Test Voltage**

AC 120V / 60Hz

#### **3.2 Test Compliance**

47 CFR Part 22H, 24E, Part 2

#### **3.3 Frequency Range**

- a. Radiation: from 30MHz to 9000MHz for GSM850 and WCDMA Band V.
- b. Radiation: from 30 MHz to 19000 MHz for PCS1900 and WCDMA Band II.

#### **3.4 Test Distance**

The test distance of radiated emission from antenna to EUT is 3 m.



## **4. Test Data and Test Result**

### **4.1 List of Measurements and Examinations**

| <b>FCC Rule</b> | <b>DESCRIPTION OF TEST</b>           | <b>Result</b> | <b>Section</b> |
|-----------------|--------------------------------------|---------------|----------------|
| §2.1053         | Field Strength of Spurious Radiation | Passed        | 4.6            |

## 4.2 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-C.

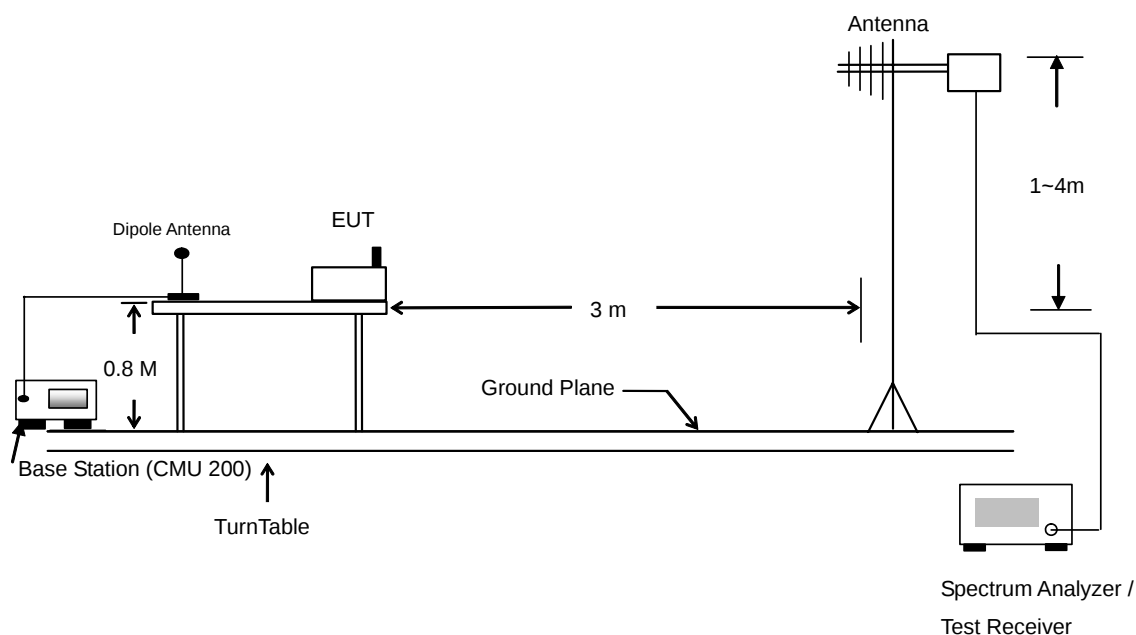
### 4.2.1 Measurement Instruments

As described in chapter 5 of this test report.

### 4.2.2 Test Procedure

1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
2. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to reach the maximum spurious emission for both horizontal and vertical polarizations.
5. Taking the record of maximum spurious emission.
6. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Emission level (dBm) = output power + substitution Gain.

### 4.2.3 Test Setup Layout



#### 4.2.4 Test Result

▪ Test Mode : Mode 1

| GSM850 (GPRS) Radiated Spurious ERP |           |       |        |                |           |       |        |
|-------------------------------------|-----------|-------|--------|----------------|-----------|-------|--------|
| H Polarization                      |           |       |        | V Polarization |           |       |        |
| Frequency                           | ERP (dBm) | Limit | Margin | Frequency      | ERP (dBm) | Limit | Margin |
| (MHz)                               |           | (dBm) | (dB)   | (MHz)          |           | (dBm) | (dB)   |
| 30.000                              | -64.680   | -13   | -51.68 | 30.000         | -58.980   | -13   | -45.98 |
| 195.240                             | -60.590   | -13   | -47.59 | 189.840        | -56.520   | -13   | -43.52 |
| 251.130                             | -54.440   | -13   | -41.44 | 251.940        | -48.200   | -13   | -35.20 |
| 995.800                             | -59.710   | -13   | -46.71 | 432.300        | -61.190   | -13   | -48.19 |
| 1288.000                            | -52.070   | -13   | -39.07 | 1328.000       | -45.040   | -13   | -32.04 |
| 1328.000                            | -49.240   | -13   | -36.24 | 1674.000       | -52.770   | -13   | -39.77 |
| 1674.000                            | -50.080   | -13   | -37.08 | 1994.000       | -54.030   | -13   | -41.03 |
| 2508.000                            | -50.910   | -13   | -37.91 | 2394.000       | -50.270   | -13   | -37.27 |

▪ Test Mode : Mode 2

| GSM850 (EDGE) Radiated Spurious ERP |           |       |        |                |           |       |        |
|-------------------------------------|-----------|-------|--------|----------------|-----------|-------|--------|
| H Polarization                      |           |       |        | V Polarization |           |       |        |
| Frequency                           | ERP (dBm) | Limit | Margin | Frequency      | ERP (dBm) | Limit | Margin |
| (MHz)                               |           | (dBm) | (dB)   | (MHz)          |           | (dBm) | (dB)   |
| 30.000                              | -64.730   | -13   | -51.73 | 85.080         | -54.170   | -13   | -41.17 |
| 193.890                             | -59.210   | -13   | -46.21 | 188.490        | -55.170   | -13   | -42.17 |
| 249.240                             | -54.110   | -13   | -41.11 | 248.430        | -48.850   | -13   | -35.85 |
| 995.800                             | -61.860   | -13   | -48.86 | 432.300        | -61.850   | -13   | -48.85 |
| 1324.000                            | -48.560   | -13   | -35.56 | 1328.000       | -46.970   | -13   | -33.97 |
| 1674.000                            | -53.150   | -13   | -40.15 | 1674.000       | -52.220   | -13   | -39.22 |
| 2394.000                            | -51.530   | -13   | -38.53 | 2394.000       | -48.650   | -13   | -35.65 |



- Test Mode : Mode 3

| PCS1900 (GPRS) Radiated Spurious EIRP |            |       |        |                |            |       |        |
|---------------------------------------|------------|-------|--------|----------------|------------|-------|--------|
| H Polarization                        |            |       |        | V Polarization |            |       |        |
| Frequency                             | EIRP (dBm) | Limit | Margin | Frequency      | EIRP (dBm) | Limit | Margin |
| (MHz)                                 |            | (dBm) | (dB)   | (MHz)          |            | (dBm) | (dB)   |
| 112.890                               | -50.860    | -13   | -37.86 | 48.090         | -53.800    | -13   | -40.80 |
| 195.240                               | -51.060    | -13   | -38.06 | 189.030        | -53.080    | -13   | -40.08 |
| 250.590                               | -51.260    | -13   | -38.26 | 251.130        | -45.490    | -13   | -32.49 |
| 302.800                               | -58.560    | -13   | -45.56 | 430.900        | -58.910    | -13   | -45.91 |
| 399.400                               | -58.790    | -13   | -45.79 | 665.400        | -58.730    | -13   | -45.73 |
| 995.800                               | -61.610    | -13   | -48.61 | 983.900        | -59.710    | -13   | -46.71 |
| 1334.000                              | -45.200    | -13   | -32.20 | 1334.000       | -45.010    | -13   | -32.01 |
| 1864.000                              | -46.370    | -13   | -33.37 | 2398.000       | -47.520    | -13   | -34.52 |
|                                       |            |       |        | 3758.000       | -50.040    | -13   | -37.04 |

- Test Mode : Mode 4

| PCS1900 (EDGE) Radiated Spurious EIRP |            |       |        |                |            |       |        |
|---------------------------------------|------------|-------|--------|----------------|------------|-------|--------|
| H Polarization                        |            |       |        | V Polarization |            |       |        |
| Frequency                             | EIRP (dBm) | Limit | Margin | Frequency      | EIRP (dBm) | Limit | Margin |
| (MHz)                                 |            | (dBm) | (dB)   | (MHz)          |            | (dBm) | (dB)   |
| 112.890                               | -50.840    | -13   | -37.84 | 112.890        | -54.050    | -13   | -41.05 |
| 191.730                               | -51.460    | -13   | -38.46 | 192.540        | -53.110    | -13   | -40.11 |
| 253.290                               | -52.370    | -13   | -39.37 | 251.940        | -47.200    | -13   | -34.20 |
| 300.000                               | -58.360    | -13   | -45.36 | 300.000        | -62.840    | -13   | -49.84 |
| 399.400                               | -58.070    | -13   | -45.07 | 432.300        | -59.190    | -13   | -46.19 |
| 1000.000                              | -61.170    | -13   | -48.17 | 665.400        | -58.820    | -13   | -45.82 |
| 1328.000                              | -46.010    | -13   | -33.01 | 1328.000       | -40.210    | -13   | -27.21 |
| 2394.000                              | -51.710    | -13   | -38.71 | 2398.000       | -47.220    | -13   | -34.22 |
| 3758.000                              | -46.630    | -13   | -33.63 |                |            |       |        |

▪ Test Mode : Mode 5

| WCDMA Band V Radiated Spurious ERP |           |       |        |                |           |       |        |
|------------------------------------|-----------|-------|--------|----------------|-----------|-------|--------|
| H Polarization                     |           |       |        | V Polarization |           |       |        |
| Frequency                          | ERP (dBm) | Limit | Margin | Frequency      | ERP (dBm) | Limit | Margin |
| (MHz)                              |           | (dBm) | (dB)   | (MHz)          |           | (dBm) | (dB)   |
| 80.490                             | -61.350   | -13   | -48.35 | 76.980         | -46.860   | -13   | -33.86 |
| 191.730                            | -60.520   | -13   | -47.52 | 191.730        | -56.570   | -13   | -43.57 |
| 251.940                            | -56.020   | -13   | -43.02 | 251.940        | -51.500   | -13   | -38.50 |
| 994.400                            | -61.450   | -13   | -48.45 | 432.300        | -61.920   | -13   | -48.92 |
| 1158.000                           | -56.370   | -13   | -43.37 | 1248.000       | -53.210   | -13   | -40.21 |
| 1328.000                           | -45.960   | -13   | -32.96 | 1328.000       | -48.930   | -13   | -35.93 |
|                                    |           |       |        | 2388.000       | -48.860   | -13   | -35.86 |

▪ Test Mode : Mode 6

| WCDMA Band V (HSDPA) Radiated Spurious ERP |           |       |        |                |           |       |        |
|--------------------------------------------|-----------|-------|--------|----------------|-----------|-------|--------|
| H Polarization                             |           |       |        | V Polarization |           |       |        |
| Frequency                                  | ERP (dBm) | Limit | Margin | Frequency      | ERP (dBm) | Limit | Margin |
| (MHz)                                      |           | (dBm) | (dB)   | (MHz)          |           | (dBm) | (dB)   |
| 76.440                                     | -64.910   | -13   | -51.91 | 126.390        | -62.060   | -13   | -49.06 |
| 189.840                                    | -59.880   | -13   | -46.88 | 187.680        | -56.390   | -13   | -43.39 |
| 254.640                                    | -56.680   | -13   | -43.68 | 255.180        | -50.780   | -13   | -37.78 |
| 399.400                                    | -64.130   | -13   | -51.13 | 432.300        | -62.090   | -13   | -49.09 |
| 1328.000                                   | -47.070   | -13   | -34.07 | 1328.000       | -47.440   | -13   | -34.44 |
| 2394.000                                   | -52.230   | -13   | -39.23 | 2388.000       | -52.600   | -13   | -39.60 |
| 2488.000                                   | -52.930   | -13   | -39.93 | 2488.000       | -53.480   | -13   | -40.48 |

- Test Mode : Mode 7

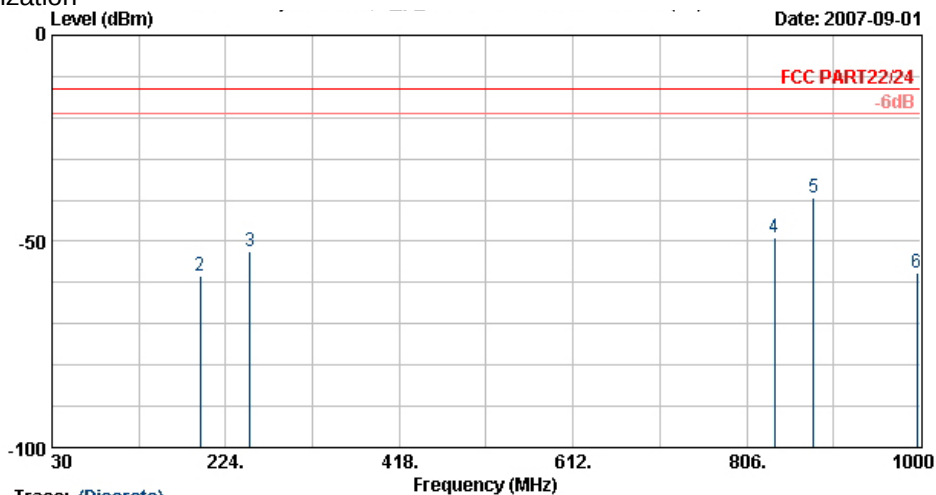
| WCDMA Band II Radiated Spurious EIRP |            |       |        |                |            |       |        |
|--------------------------------------|------------|-------|--------|----------------|------------|-------|--------|
| H Polarization                       |            |       |        | V Polarization |            |       |        |
| Frequency                            | EIRP (dBm) | Limit | Margin | Frequency      | EIRP (dBm) | Limit | Margin |
| (MHz)                                |            | (dBm) | (dB)   | (MHz)          |            | (dBm) | (dB)   |
| 37.290                               | -57.490    | -13   | -44.49 | 69.690         | -53.040    | -13   | -40.04 |
| 187.680                              | -56.770    | -13   | -43.77 | 189.030        | -52.770    | -13   | -39.77 |
| 247.890                              | -53.070    | -13   | -40.07 | 249.240        | -47.790    | -13   | -34.79 |
| 397.300                              | -63.720    | -13   | -50.72 | 432.300        | -59.910    | -13   | -46.91 |
| 430.900                              | -63.970    | -13   | -50.97 | 497.400        | -61.400    | -13   | -48.40 |
| 994.400                              | -56.130    | -13   | -43.13 | 665.400        | -60.190    | -13   | -47.19 |
| 1328.000                             | -47.270    | -13   | -34.27 | 1328.000       | -44.040    | -13   | -31.04 |
| 1844.000                             | -44.000    | -13   | -31.00 | 1962.000       | -39.950    | -13   | -26.95 |
| 1958.000                             | -40.750    | -13   | -27.75 | 2394.000       | -47.640    | -13   | -34.64 |
| 3764.000                             | -31.140    | -13   | -18.14 | 3764.000       | -37.370    | -13   | -24.37 |
|                                      |            |       |        | 3918.000       | -48.680    | -13   | -35.68 |

- Test Mode : Mode 8

| WCDMA Band II (HSDPA) Radiated Spurious EIRP |            |       |        |                |            |       |        |
|----------------------------------------------|------------|-------|--------|----------------|------------|-------|--------|
| H Polarization                               |            |       |        | V Polarization |            |       |        |
| Frequency                                    | EIRP (dBm) | Limit | Margin | Frequency      | EIRP (dBm) | Limit | Margin |
| (MHz)                                        |            | (dBm) | (dB)   | (MHz)          |            | (dBm) | (dB)   |
| 30.000                                       | -64.260    | -13   | -51.26 | 82.380         | -48.220    | -13   | -35.22 |
| 192.540                                      | -57.220    | -13   | -44.22 | 188.490        | -53.090    | -13   | -40.09 |
| 251.130                                      | -51.630    | -13   | -38.63 | 250.590        | -47.260    | -13   | -34.26 |
| 364.400                                      | -63.280    | -13   | -50.28 | 430.900        | -59.630    | -13   | -46.63 |
| 432.300                                      | -63.260    | -13   | -50.26 | 495.300        | -61.790    | -13   | -48.79 |
| 995.800                                      | -62.250    | -13   | -49.25 | 665.400        | -61.240    | -13   | -48.24 |
| 1328.000                                     | -48.220    | -13   | -35.22 | 1324.000       | -45.150    | -13   | -32.15 |
| 3764.000                                     | -31.200    | -13   | -18.20 | 2388.000       | -48.030    | -13   | -35.03 |
|                                              |            |       |        | 3758.000       | -36.870    | -13   | -23.87 |
|                                              |            |       |        | 5638.000       | -44.420    | -13   | -31.42 |

**4.2.5 Test Data****4.2.5.1 Mode 1**

Horizontal Polarization

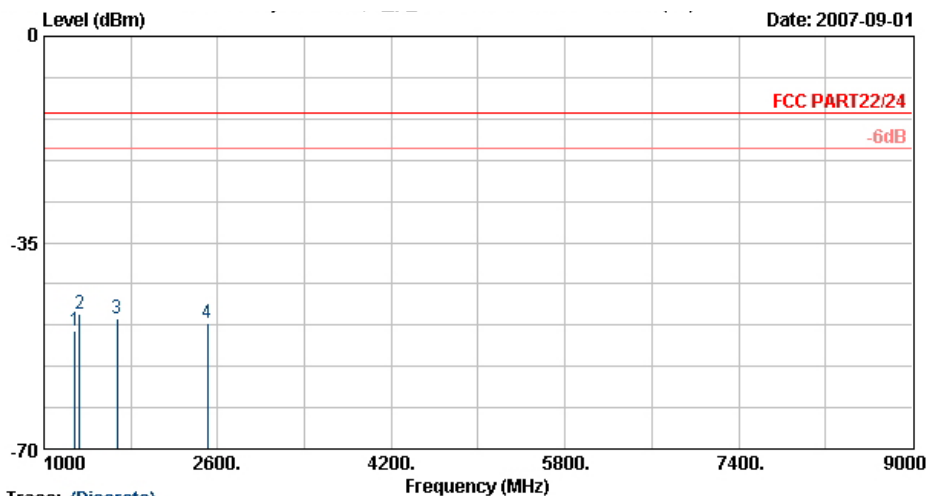
**Trace: (Discrete)**

Site : 03CH06-HY  
Condition : LF-SFURIOUS HORIZONTAL  
EUT : Notebook  
Power : 120V<sub>ac</sub> 60Hz  
Model : FG780814  
Mode : GPRS Link + Adaptor

|     | Freq  | Level  | Over   | Limit  | Read   |        |        |            |
|-----|-------|--------|--------|--------|--------|--------|--------|------------|
|     | MHz   | dBm    | dB     | dBm    | dBm    | dB     | Remark | Pol/Phase  |
| 1   | 30.0  | -62.53 | -49.53 | -13.00 | -62.89 | 0.36   | Peak   | HORIZONTAL |
| 2   | 195.2 | -58.44 | -45.44 | -13.00 | -45.11 | -13.33 | Peak   | HORIZONTAL |
| 3   | 251.1 | -52.29 | -39.29 | -13.00 | -40.68 | -11.62 | Peak   | HORIZONTAL |
| 4   | 836.9 | -49.09 |        |        | -47.75 | -1.33  | Peak   | HORIZONTAL |
| 5 @ | 880.3 | -39.50 |        |        | -38.59 | -0.91  | Peak   | HORIZONTAL |
| 6   | 995.8 | -57.56 | -44.56 | -13.00 | -57.76 | 0.20   | Peak   | HORIZONTAL |

Remark:

1. #4: MS Signal
2. #5: BS Signal

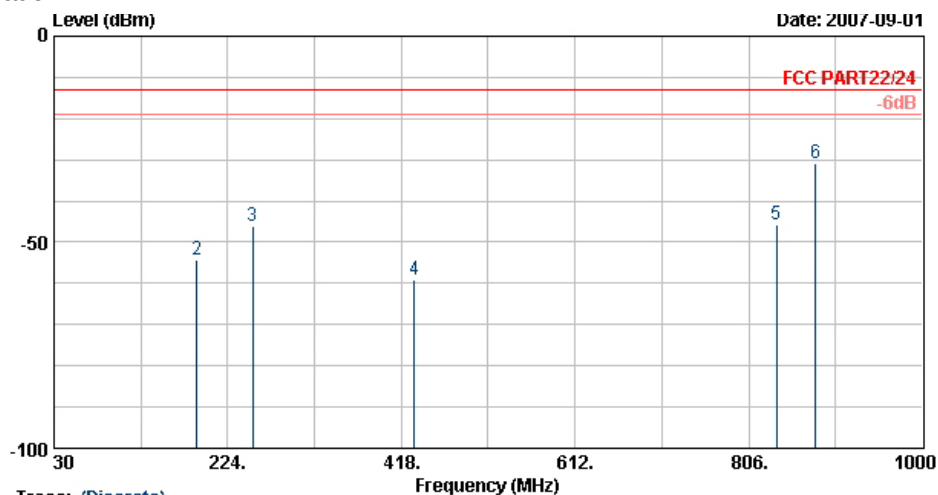


Site : 08CH06-HY  
Condition : HF-SPURIOUS-060929 HORIZONTAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780814  
Mode : GPRS Link + Adaptor

|   | Freq   | Level  | Over   | Limit  | Read   |        |        |            |
|---|--------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase  |
|   | MHz    | dBm    | dB     | dBm    | dBm    | dB     |        |            |
| 1 | 1288.0 | -49.92 | -36.92 | -13.00 | -49.33 | -0.59  | Peak   | HORIZONTAL |
| 2 | 1328.0 | -47.09 | -34.09 | -13.00 | -46.76 | -0.33  | Peak   | HORIZONTAL |
| 3 | 1674.0 | -47.93 | -34.93 | -13.00 | -50.29 | 2.36   | Peak   | HORIZONTAL |
| 4 | 2508.0 | -48.76 | -35.76 | -13.00 | -55.45 | 6.69   | Peak   | HORIZONTAL |



## Vertical Polarization



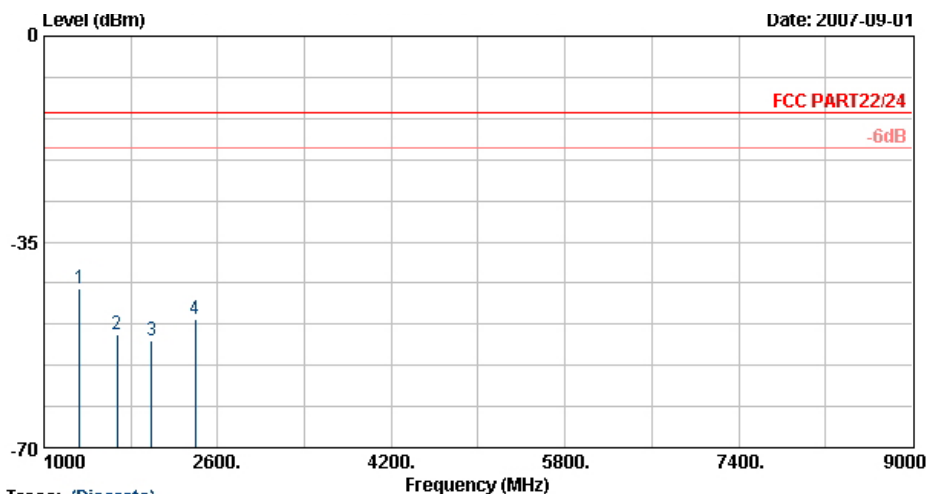
## Trace: (Discrete)

Site : 03CH06-HY  
Condition : LF-SFURIOUS VERTICAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780814  
Mode : GPFS Link + Adaptor

|     | Freq  | Level  | Over   | Limit  | Read   |       |        |           |
|-----|-------|--------|--------|--------|--------|-------|--------|-----------|
|     | MHz   | dBm    | dB     | dBm    | dBm    | dB    | Remark | Pol/Phase |
| 1   | 30.0  | -56.83 | -43.83 | -13.00 | -47.76 | -9.07 | Peak   | VERTICAL  |
| 2   | 189.8 | -54.37 | -41.37 | -13.00 | -45.87 | -8.50 | Peak   | VERTICAL  |
| 3   | 251.9 | -46.05 | -33.05 | -13.00 | -38.58 | -7.47 | Peak   | VERTICAL  |
| 4   | 432.3 | -59.04 | -46.04 | -13.00 | -55.10 | -3.94 | Peak   | VERTICAL  |
| 5   | 836.9 | -45.90 |        |        | -47.26 | 1.36  | Peak   | VERTICAL  |
| 6 @ | 880.3 | -30.68 |        |        | -32.39 | 1.71  | Peak   | VERTICAL  |

## Remark:

1. #5: MS Signal
2. #6: BS Signal



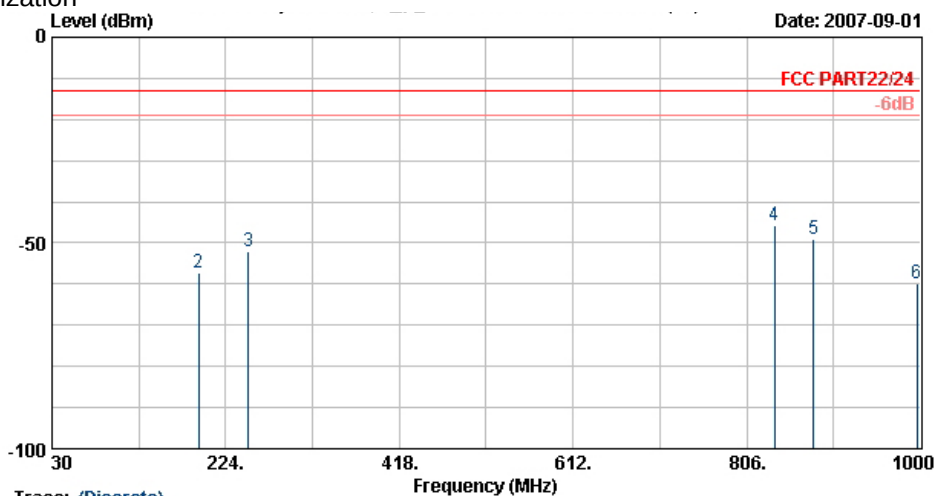
|     | Freq   | Level  | Over   | Limit  | Read   |        |        |           |
|-----|--------|--------|--------|--------|--------|--------|--------|-----------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|     | MHz    | dBm    | dB     | dBm    | dBm    | dB     |        |           |
| 1 @ | 1328.0 | -42.89 | -29.89 | -13.00 | -41.63 | -1.27  | Peak   | VERTICAL  |
| 2   | 1674.0 | -50.62 | -37.62 | -13.00 | -52.77 | 2.16   | Peak   | VERTICAL  |
| 3   | 1994.0 | -51.88 | -38.88 | -13.00 | -57.24 | 5.36   | Peak   | VERTICAL  |
| 4   | 2394.0 | -48.12 | -35.12 | -13.00 | -54.95 | 6.83   | Peak   | VERTICAL  |

Remark : There is no more obvious emission except the listings above.



## 4.2.5.2 Mode 2

Horizontal Polarization

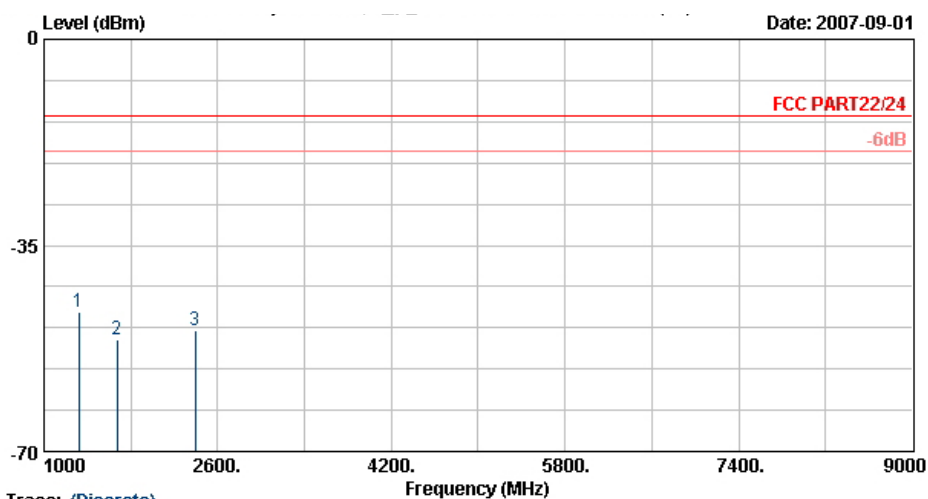


Site : 03CH06-HY  
Condition : LF-SFURIOUS HORIZONTAL  
EUT : Notebook  
Power : 120V ac 60Hz  
Model : FG780814  
Mode : EDGE Link + Adaptor

|     | Freq  | Level  | Over   | Limit  | Read   |        |        |            |
|-----|-------|--------|--------|--------|--------|--------|--------|------------|
|     | MHz   | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase  |
|     | MHz   | dBm    | dB     | dBm    | dBm    | dB     |        |            |
| 1   | 30.0  | -62.58 | -49.58 | -13.00 | -62.94 | 0.36   | Peak   | HORIZONTAL |
| 2   | 193.9 | -57.06 | -44.06 | -13.00 | -43.74 | -13.32 | Peak   | HORIZONTAL |
| 3 @ | 249.2 | -51.96 | -38.96 | -13.00 | -40.28 | -11.68 | Peak   | HORIZONTAL |
| 4 @ | 836.9 | -45.87 |        |        | -44.53 | -1.33  | Peak   | HORIZONTAL |
| 5 @ | 880.3 | -48.95 |        |        | -48.04 | -0.91  | Peak   | HORIZONTAL |
| 6   | 995.8 | -59.71 | -46.71 | -13.00 | -59.91 | 0.20   | Peak   | HORIZONTAL |

Remark:

1. #4: MS Signal
2. #5: BS Signal

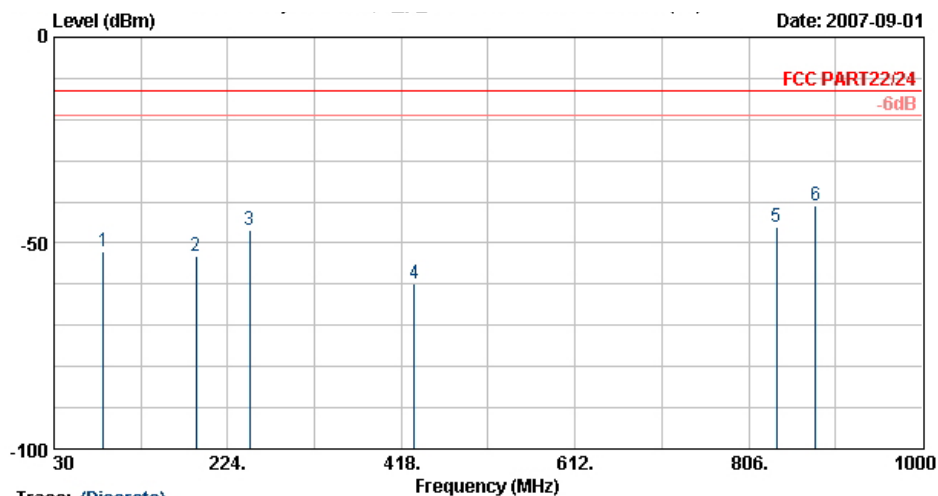


Site : 03CH06-HY  
Condition : HF-SPURIOUS-060929 HORIZONTAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780814  
Mode : EDGE Link + Adaptor

|     | Freq   | Level  | Over   | Limit  | Read   |        |        |            |
|-----|--------|--------|--------|--------|--------|--------|--------|------------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase  |
|     | MHz    | dBm    | dB     | dBm    | dBm    | dB     |        |            |
| 1 @ | 1324.0 | -46.41 | -33.41 | -13.00 | -46.08 | -0.33  | Peak   | HORIZONTAL |
| 2 @ | 1674.0 | -51.00 | -38.00 | -13.00 | -53.36 | 2.36   | Peak   | HORIZONTAL |
| 3 @ | 2394.0 | -49.38 | -36.38 | -13.00 | -55.63 | 6.25   | Peak   | HORIZONTAL |

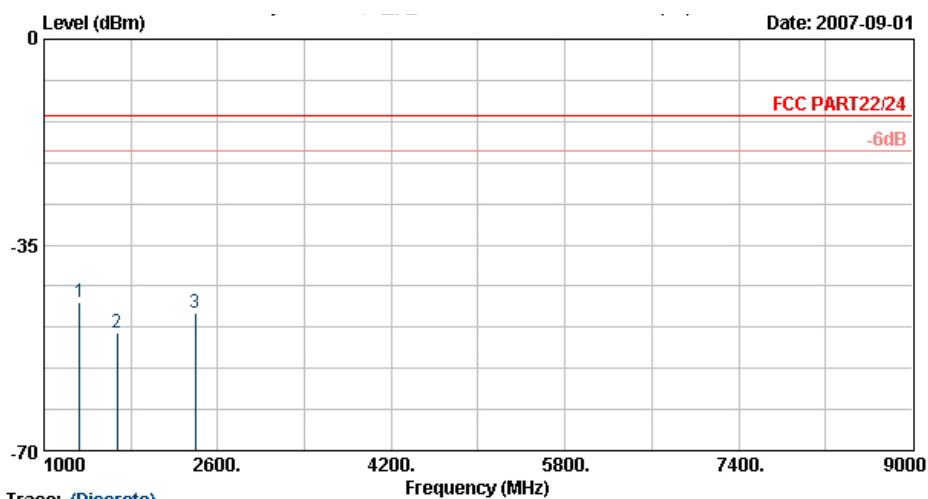


## Vertical Polarization



## Remark:

1. #5: MS Signal
2. #6: BS Signal

**Trace: (Discrete)**

Site : 08CH06-HY  
Condition : HF-SPURIOUS-060929 VERTICAL  
EUT : Notebook  
Power : 120V ac 60Hz  
Model : FG780814  
Mode : EDGE Link + Adaptor

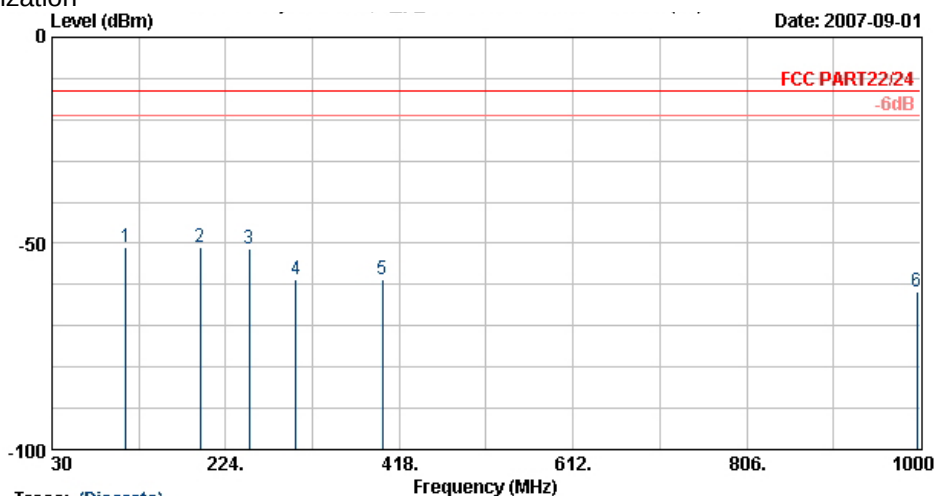
|     | Freq   | Level  | Over   | Limit  | Read   |        |        |           |
|-----|--------|--------|--------|--------|--------|--------|--------|-----------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|     | MHz    | dBm    | dB     | dBm    | dBm    | dB     |        |           |
| 1 @ | 1328.0 | -44.82 | -31.82 | -13.00 | -43.55 | -1.27  | Peak   | VERTICAL  |
| 2 @ | 1674.0 | -50.07 | -37.07 | -13.00 | -52.23 | 2.16   | Peak   | VERTICAL  |
| 3 @ | 2394.0 | -46.50 | -33.50 | -13.00 | -53.33 | 6.83   | Peak   | VERTICAL  |

Remark : There is no more obvious emission except the listings above.



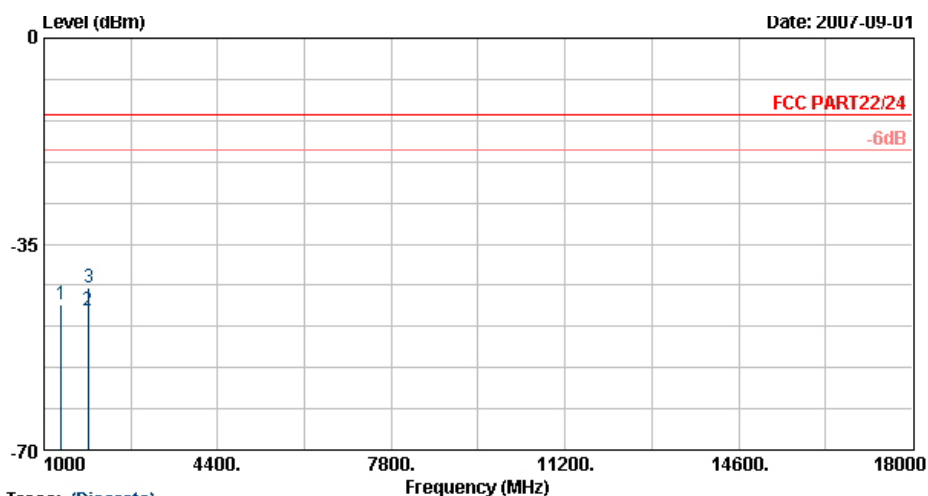
## 4.2.5.3 Mode 3

## Horizontal Polarization



Site : 08CH06-HY  
 Condition : LF-SPURIOUS HORIZONTAL  
 EUT : Notebook  
 Power : 120V<sub>ac</sub> 60Hz  
 Model : FG780814  
 Mode : GPRS Link + Adaptor

|   | Freq  | Level  | Over   | Limit  | Read   |        |        |            |
|---|-------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz   | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase  |
|   | MHz   | dBm    | dB     | dBm    | dBm    | dB     |        |            |
| 1 | 112.9 | -50.86 | -37.86 | -13.00 | -38.47 | -12.39 | Peak   | HORIZONTAL |
| 2 | 195.2 | -51.06 | -38.06 | -13.00 | -37.73 | -13.33 | Peak   | HORIZONTAL |
| 3 | 250.6 | -51.26 | -38.26 | -13.00 | -39.61 | -11.65 | Peak   | HORIZONTAL |
| 4 | 302.8 | -58.56 | -45.56 | -13.00 | -48.72 | -9.84  | Peak   | HORIZONTAL |
| 5 | 399.4 | -58.79 | -45.79 | -13.00 | -52.29 | -6.50  | Peak   | HORIZONTAL |
| 6 | 995.8 | -61.61 | -48.61 | -13.00 | -61.81 | 0.20   | Peak   | HORIZONTAL |



## Trace: (Discrete)

Site : 08CH06-HY  
Condition : HF-SPURIOUS-060929 HORIZONTAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780814  
Mode : GPS Link + Adaptor

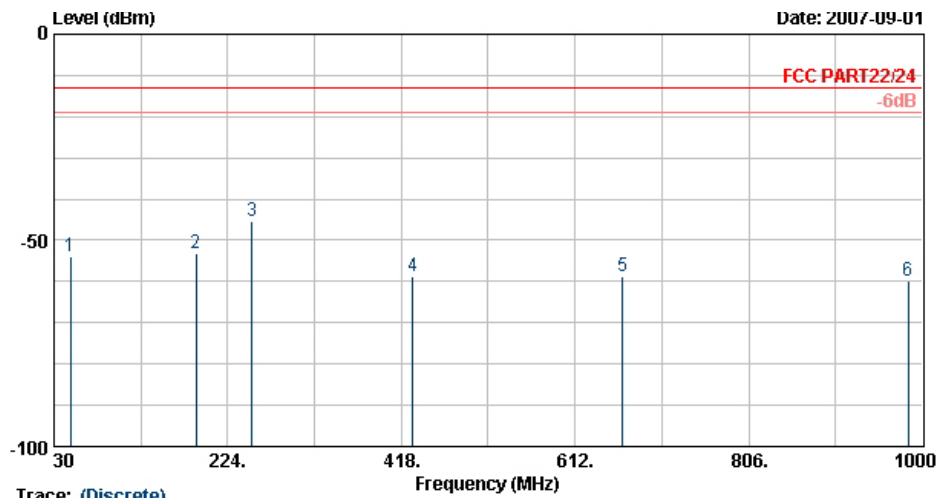
|     | Freq   | Level  | Over   | Limit  | Read   |        |        |            |
|-----|--------|--------|--------|--------|--------|--------|--------|------------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase  |
|     | MHz    | dBm    | dB     | dBm    | dBm    | dB     |        |            |
| 1 @ | 1334.0 | -45.20 | -32.20 | -13.00 | -45.00 | -0.21  | Peak   | HORIZONTAL |
| 2 @ | 1864.0 | -46.37 | -33.37 | -13.00 | -50.15 | 3.77   | Peak   | HORIZONTAL |
| 3 @ | 1884.0 | -42.45 |        |        | -46.35 | 3.90   | Peak   | HORIZONTAL |

## Remark:

1. #3: MS Signal



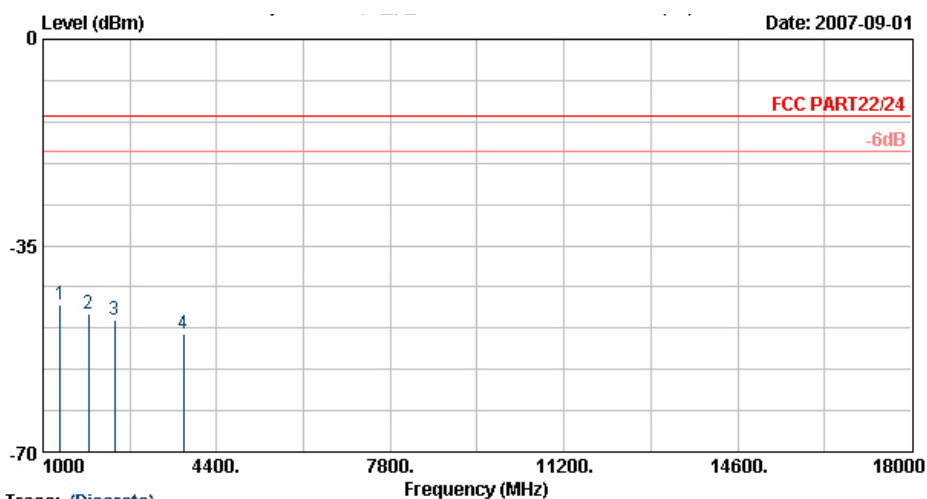
## Vertical Polarization



## Trace: (Discrete)

Site : 03CH06-HY  
Condition : LF-SFURIOUS VERTICAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780814  
Mode : GPRS Link + Adaptor

|     | Freq  | Level  | Over   | Limit  | Read   |        |        |           |
|-----|-------|--------|--------|--------|--------|--------|--------|-----------|
|     | MHz   | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|     | MHz   | dBm    | dB     | dBm    | dBm    | dB     |        |           |
| 1   | 48.1  | -53.80 | -40.80 | -13.00 | -39.53 | -14.27 | Peak   | VERTICAL  |
| 2   | 189.0 | -53.08 | -40.08 | -13.00 | -44.59 | -8.49  | Peak   | VERTICAL  |
| 3 @ | 251.1 | -45.49 | -32.49 | -13.00 | -38.00 | -7.49  | Peak   | VERTICAL  |
| 4   | 430.9 | -58.91 | -45.91 | -13.00 | -54.95 | -3.96  | Peak   | VERTICAL  |
| 5   | 665.4 | -58.73 | -45.73 | -13.00 | -57.77 | -0.95  | Peak   | VERTICAL  |
| 6   | 983.9 | -59.71 | -46.71 | -13.00 | -62.23 | 2.53   | Peak   | VERTICAL  |

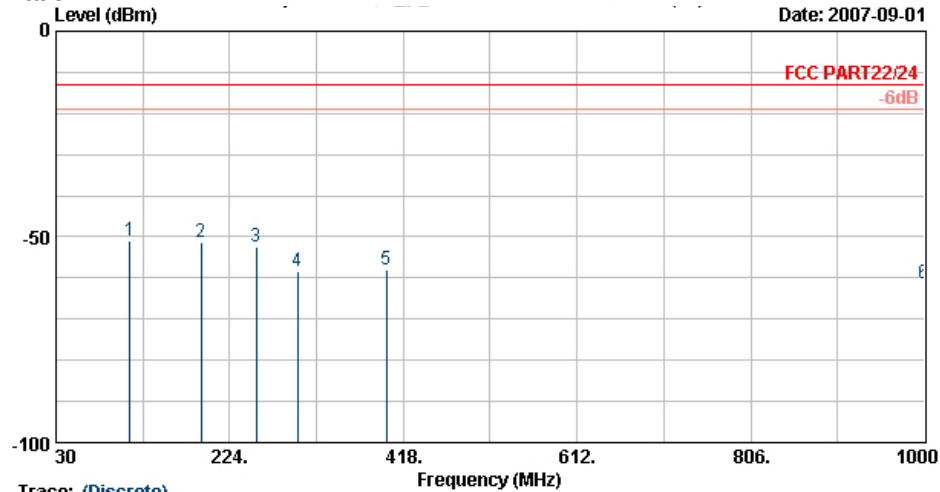
**Trace: (Discrete)**

Site : 08CH06-HY  
Condition : HF-SPURIOUS-060929 VERTICAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780814  
Mode : GPRS Link + Adaptor

|     | Freq   | Level  | Over   | Limit  | Read   |        |        |           |
|-----|--------|--------|--------|--------|--------|--------|--------|-----------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|     | MHz    | dBm    | dB     | dBm    | dBm    | dB     |        |           |
| 1 @ | 1334.0 | -45.01 | -32.01 | -13.00 | -43.89 | -1.12  | Peak   | VERTICAL  |
| 2 @ | 1888.0 | -46.51 |        |        | -50.80 | 4.29   | Peak   | VERTICAL  |
| 3 @ | 2398.0 | -47.52 | -34.52 | -13.00 | -54.36 | 6.83   | Peak   | VERTICAL  |
| 4 @ | 3758.0 | -50.04 | -37.04 | -13.00 | -59.93 | 9.89   | Peak   | VERTICAL  |

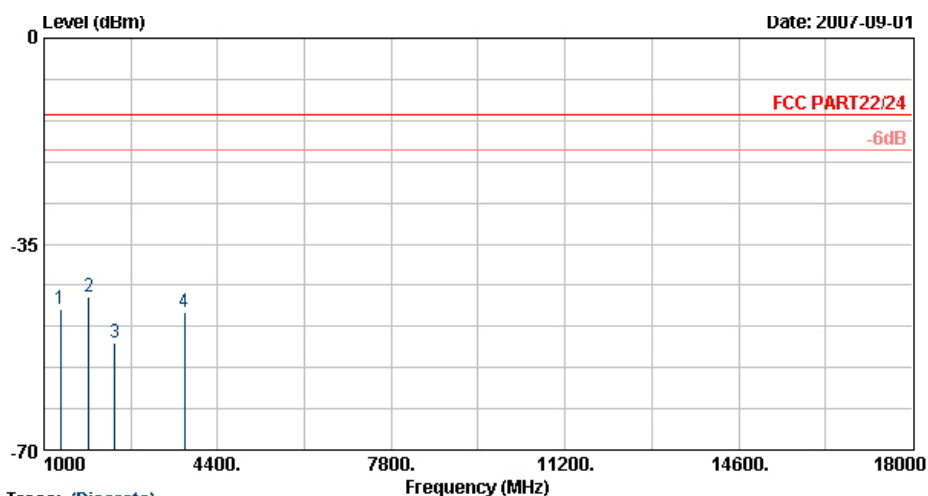
**Remark:**

1. #2: MS Signal
2. There is no more obvious emission except the listings above.

**4.2.5.4 Mode 4****Horizontal Polarization**

Site : 03CH06-HY  
Condition : LF-SFURIOUS HORIZONTAL  
EUT : Notebook  
Power : 120V ac 60Hz  
Model : FG780814  
Mode : EDGE Link + Adaptor

|     | Freq   | Level  | Over   | Limit  | Read   |        |        |            |
|-----|--------|--------|--------|--------|--------|--------|--------|------------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase  |
|     |        |        | dB     | dBm    | dBm    | dB     |        |            |
| 1 @ | 112.9  | -50.84 | -37.84 | -13.00 | -38.46 | -12.39 | Peak   | HORIZONTAL |
| 2   | 191.7  | -51.46 | -38.46 | -13.00 | -38.16 | -13.30 | Peak   | HORIZONTAL |
| 3   | 253.3  | -52.37 | -39.37 | -13.00 | -40.81 | -11.55 | Peak   | HORIZONTAL |
| 4   | 300.0  | -58.36 | -45.36 | -13.00 | -48.42 | -9.95  | Peak   | HORIZONTAL |
| 5   | 399.4  | -58.07 | -45.07 | -13.00 | -51.57 | -6.50  | Peak   | HORIZONTAL |
| 6   | 1000.0 | -61.17 | -48.17 | -13.00 | -61.41 | 0.24   | Peak   | HORIZONTAL |

**Trace: (Discrete)**

Site : 08CH06-HY  
Condition : HF-SPURIOUS-060929 HORIZONTAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780814  
Mode : EDGE Link + Adaptor

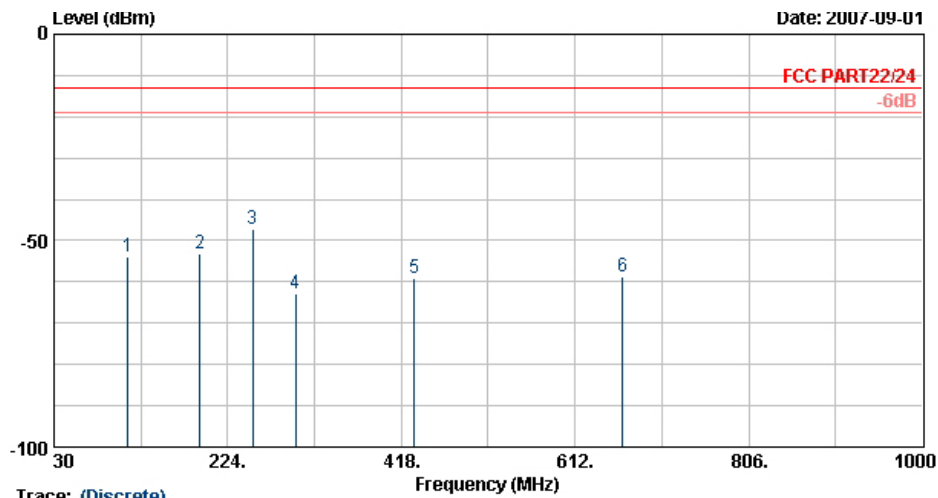
|     | Freq   | Level  | Over   | Limit  | Read   |        |        |            |
|-----|--------|--------|--------|--------|--------|--------|--------|------------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase  |
|     | MHz    | dBm    | dB     | dBm    | dBm    | dB     |        |            |
| 1 @ | 1328.0 | -46.01 | -33.01 | -13.00 | -45.68 | -0.33  | Peak   | HORIZONTAL |
| 2 @ | 1884.0 | -43.91 |        |        | -47.81 | 3.90   | Peak   | HORIZONTAL |
| 3   | 2394.0 | -51.71 | -38.71 | -13.00 | -57.96 | 6.25   | Peak   | HORIZONTAL |
| 4 @ | 3758.0 | -46.63 | -33.63 | -13.00 | -57.04 | 10.41  | Peak   | HORIZONTAL |

**Remark:**

1. #2: MS Signal



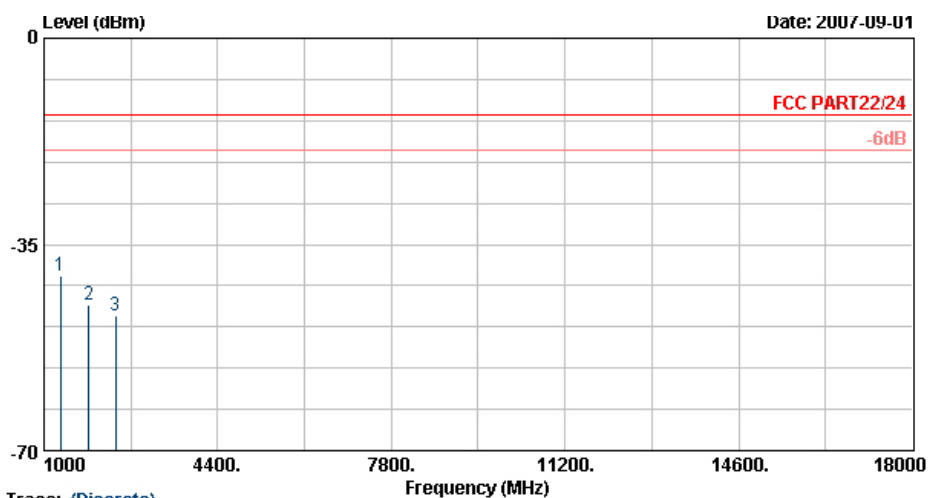
## Vertical Polarization



## Trace: (Discrete)

Site : 03CH06-HY  
 Condition : LF-SFURIOUS VERTICAL  
 EUT : Notebook  
 Power : 120V<sub>ac</sub> 60Hz  
 Model : FG780814  
 Mode : EDGE Link + Adaptor

|     | Freq  | Level  | Over   | Limit  | Read   |        |        |           |
|-----|-------|--------|--------|--------|--------|--------|--------|-----------|
|     | MHz   | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|     | MHz   | dBm    | dB     | dBm    | dBm    | dB     |        |           |
| 1   | 112.9 | -54.05 | -41.05 | -13.00 | -46.25 | -7.80  | Peak   | VERTICAL  |
| 2   | 192.5 | -53.11 | -40.11 | -13.00 | -44.58 | -8.53  | Peak   | VERTICAL  |
| 3 @ | 251.9 | -47.20 | -34.20 | -13.00 | -39.73 | -7.47  | Peak   | VERTICAL  |
| 4   | 300.0 | -62.84 | -49.84 | -13.00 | -56.38 | -6.46  | Peak   | VERTICAL  |
| 5   | 432.3 | -59.19 | -46.19 | -13.00 | -55.25 | -3.94  | Peak   | VERTICAL  |
| 6   | 665.4 | -58.82 | -45.82 | -13.00 | -57.86 | -0.95  | Peak   | VERTICAL  |

**Trace: (Discrete)**

Site : 03CH06-HY  
Condition : HF-SPURIOUS-060929 VERTICAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780814  
Mode : EDGE Link + Adaptor

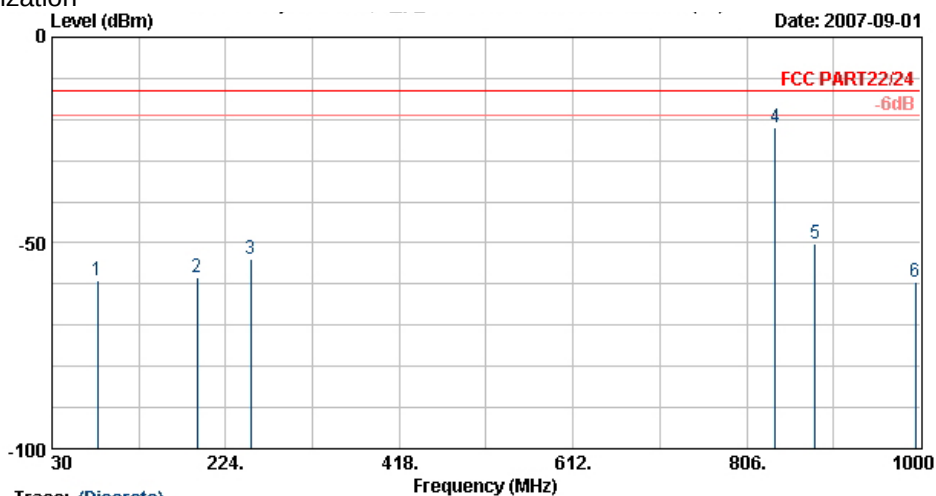
|     | Freq   | Level  | Over   | Limit  | Read   |        |        |           |
|-----|--------|--------|--------|--------|--------|--------|--------|-----------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|     | MHz    | dBm    | dB     | dBm    | dBm    | dB     |        |           |
| 1 @ | 1328.0 | -40.21 | -27.21 | -13.00 | -38.94 | -1.27  | Peak   | VERTICAL  |
| 2 @ | 1878.0 | -45.19 |        |        | -49.48 | 4.29   | Peak   | VERTICAL  |
| 3 @ | 2398.0 | -47.22 | -34.22 | -13.00 | -54.05 | 6.83   | Peak   | VERTICAL  |

**Remark:**

1. #2: MS Signal
2. There is no more obvious emission except the listings above.

**4.2.5.5 Mode 5**

Horizontal Polarization

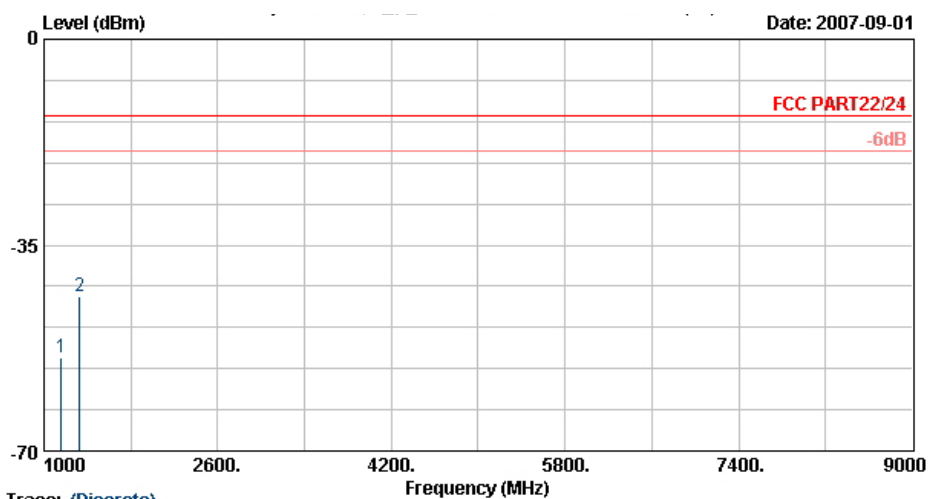
**Trace: (Discrete)**

Site : 03CH06-HY  
Condition : LF-SPURIOUS HORIZONTAL  
EUT : Notebook  
Power : 120V<sub>ac</sub> 60Hz  
Model : FG780813  
Mode : WCDMA Link + Adaptor

|     | Freq  | Level  | Over   | Limit  | Read   |        |        |            |
|-----|-------|--------|--------|--------|--------|--------|--------|------------|
|     | MHz   | dBm    | dB     | dBm    | dBm    | dB     | Remark | Pol/Phase  |
| 1   | 80.5  | -59.20 | -46.20 | -13.00 | -46.89 | -12.31 | Peak   | HORIZONTAL |
| 2   | 191.7 | -58.37 | -45.37 | -13.00 | -45.07 | -13.30 | Peak   | HORIZONTAL |
| 3   | 251.9 | -53.87 | -40.87 | -13.00 | -42.28 | -11.58 | Peak   | HORIZONTAL |
| 4 @ | 838.3 | -22.07 |        |        | -20.75 | -1.32  | Peak   | HORIZONTAL |
| 5   | 882.4 | -50.05 |        |        | -49.15 | -0.89  | Peak   | HORIZONTAL |
| 6   | 994.4 | -59.30 | -46.30 | -13.00 | -59.48 | 0.18   | Peak   | HORIZONTAL |

Remark:

1. #4: MS Signal
2. #5: BS Signal



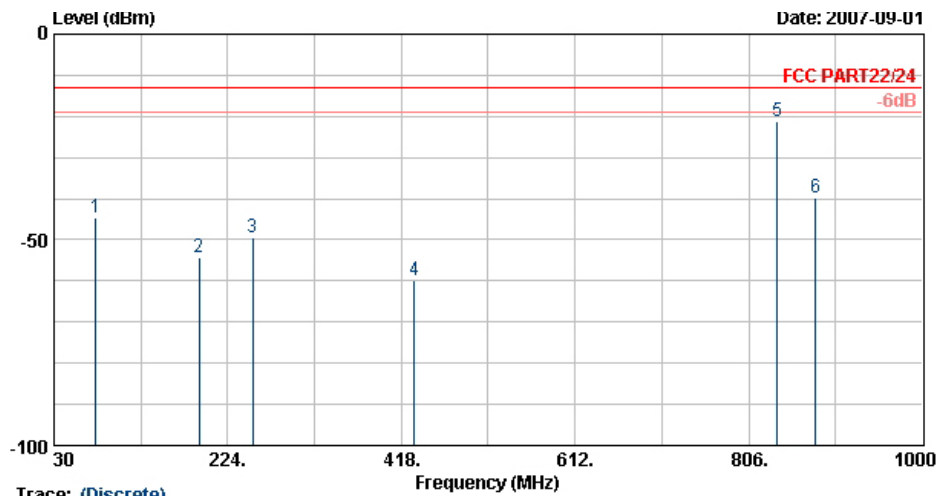
Trace: (Discrete)

Site : 08CH06-HY  
Condition : HF-SPURIOUS-060929 HORIZONTAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780813  
Mode : WCDMA Link + Adaptor

|     | Freq   | Level  | Over   | Limit  | Read   |        |        |            |
|-----|--------|--------|--------|--------|--------|--------|--------|------------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase  |
|     |        | dBm    | dB     | dBm    | dBm    | dB     |        |            |
| 1   | 1158.0 | -54.22 | -41.22 | -13.00 | -52.61 | -1.60  | Peak   | HORIZONTAL |
| 2 @ | 1328.0 | -43.81 | -30.81 | -13.00 | -43.48 | -0.33  | Peak   | HORIZONTAL |



## Vertical Polarization

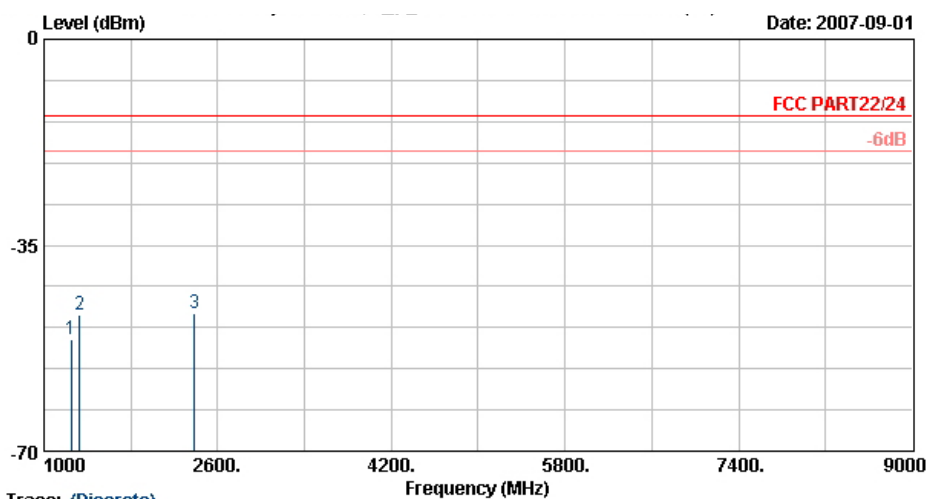


Trace: (Discrete)  
Site : 03CH06-HY  
Condition : LF-SFURIOUS VERTICAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780813  
Mode : WCDMA Link + Adaptor

|     | Freq  | Level  | Over   | Limit  | Read   |        |        |           |
|-----|-------|--------|--------|--------|--------|--------|--------|-----------|
|     | MHz   | dBm    | dB     | dBm    | dBm    | dB     | Remark | Pol/Phase |
| 1 @ | 77.0  | -44.71 | -31.71 | -13.00 | -33.67 | -11.05 | Peak   | VERTICAL  |
| 2   | 191.7 | -54.42 | -41.42 | -13.00 | -45.90 | -8.52  | Peak   | VERTICAL  |
| 3   | 251.9 | -49.35 | -36.35 | -13.00 | -41.88 | -7.47  | Peak   | VERTICAL  |
| 4   | 432.3 | -59.77 | -46.77 | -13.00 | -55.83 | -3.94  | Peak   | VERTICAL  |
| 5 @ | 838.3 | -21.03 |        |        | -22.40 | 1.37   | Peak   | VERTICAL  |
| 6 @ | 880.3 | -39.90 |        |        | -41.61 | 1.71   | Peak   | VERTICAL  |

## Remark:

1. #5: MS Signal
2. #6: BS Signal

**Trace: (Discrete)**

Site : 08CH06-HY  
Condition : HF-SPURIOUS-060929 VERTICAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780813  
Mode : WCDMA Link + Adaptor

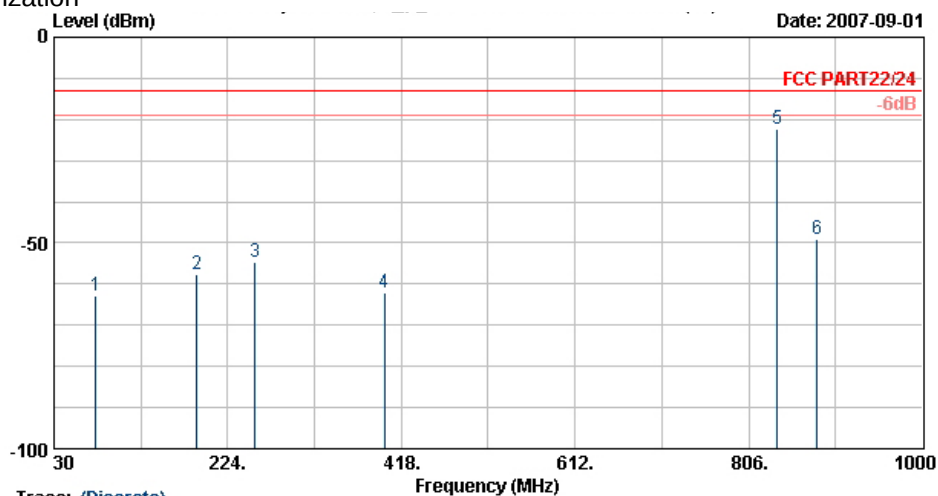
|   | Freq   | Level  | Over   | Limit  | Read   |        |        |           |
|---|--------|--------|--------|--------|--------|--------|--------|-----------|
|   | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|   | MHz    | dBm    | dB     | dBm    | dBm    | dB     |        |           |
| 1 | 1248.0 | -51.06 | -38.06 | -13.00 | -49.21 | -1.85  | Peak   | VERTICAL  |
| 2 | 1328.0 | -46.78 | -33.78 | -13.00 | -45.52 | -1.27  | Peak   | VERTICAL  |
| 3 | 2388.0 | -46.71 | -33.71 | -13.00 | -53.54 | 6.83   | Peak   | VERTICAL  |

Remark : There is no more obvious emission except the listings above.



## 4.2.5.6 Mode 6

Horizontal Polarization



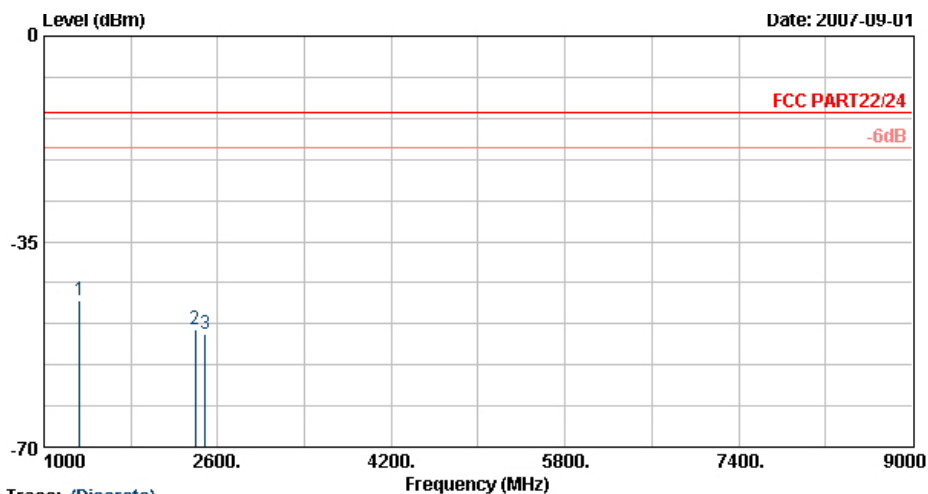
Trace: (Discrete)

Site : 03CHO6-HY  
Condition : LF-SFURIOUS HORIZONTAL  
EUT : Notebook  
Power : 120V ac 60Hz  
Model : FG780813  
Mode : HSDPA Link + Adaptor

|     | Freq  | Level  | Over   | Limit  | Read   |        |        |            |
|-----|-------|--------|--------|--------|--------|--------|--------|------------|
|     | MHz   | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase  |
|     | MHz   | dBm    | dB     | dBm    | dBm    | dB     |        |            |
| 1   | 76.4  | -62.76 | -49.76 | -13.00 | -50.43 | -12.33 | Peak   | HORIZONTAL |
| 2   | 189.8 | -57.73 | -44.73 | -13.00 | -44.45 | -13.28 | Peak   | HORIZONTAL |
| 3   | 254.6 | -54.53 | -41.53 | -13.00 | -43.04 | -11.48 | Peak   | HORIZONTAL |
| 4   | 399.4 | -61.98 | -48.98 | -13.00 | -55.48 | -6.50  | Peak   | HORIZONTAL |
| 5 @ | 838.3 | -22.37 |        |        | -21.04 | -1.32  | Peak   | HORIZONTAL |
| 6   | 882.4 | -48.95 |        |        | -48.06 | -0.89  | Peak   | HORIZONTAL |

Remark:

1. #5: MS Signal
2. #6: BS Signal



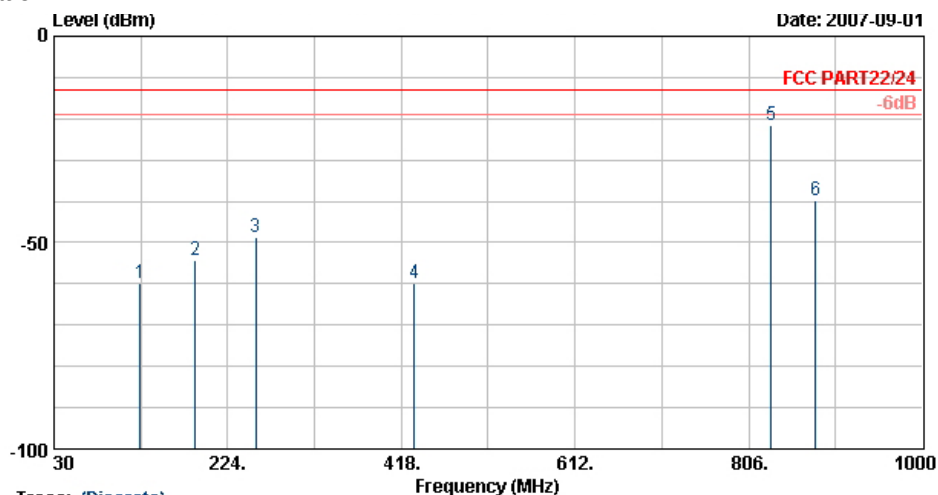
## Trace: (Discrete)

Site : 03CH06-HY  
Condition : HF-SFURIOUS-060929 HORIZONTAL  
EUT : Notebook  
Power : 120V ac 60Hz  
Model : FG780813  
Mode : HSDPA Link + Adaptor

|   | Freq   | Level  | Over   | Limit  | Read   |        |        |            |
|---|--------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase  |
|   | MHz    | dBm    | dB     | dBm    | dBm    | dB     |        |            |
| 1 | 1328.0 | -44.92 | -31.92 | -13.00 | -44.59 | -0.33  | Peak   | HORIZONTAL |
| 2 | 2394.0 | -50.08 | -37.08 | -13.00 | -56.33 | 6.25   | Peak   | HORIZONTAL |
| 3 | 2488.0 | -50.78 | -37.78 | -13.00 | -57.41 | 6.63   | Peak   | HORIZONTAL |



## Vertical Polarization

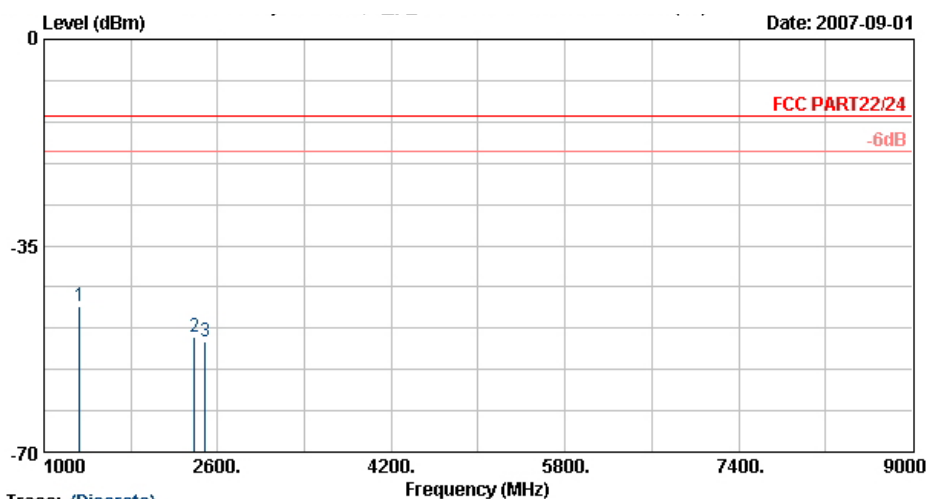


Site : 03CH06-HY  
Condition : LF-SFURIOUS VERTICAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780813  
Mode : HSDPA Link + Adaptor

|     | Freq  | Level  | Over   | Limit  | Read   |        |        |           |
|-----|-------|--------|--------|--------|--------|--------|--------|-----------|
|     | MHz   | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|     | MHz   | dBm    | dB     | dBm    | dBm    | dB     |        |           |
| 1   | 126.4 | -59.91 | -46.91 | -13.00 | -51.98 | -7.93  | Peak   | VERTICAL  |
| 2   | 187.7 | -54.24 | -41.24 | -13.00 | -45.76 | -8.49  | Peak   | VERTICAL  |
| 3   | 255.2 | -48.63 | -35.63 | -13.00 | -41.22 | -7.41  | Peak   | VERTICAL  |
| 4   | 432.3 | -59.94 | -46.94 | -13.00 | -56.00 | -3.94  | Peak   | VERTICAL  |
| 5 @ | 831.3 | -21.45 |        |        | -22.77 | 1.32   | Peak   | VERTICAL  |
| 6 @ | 880.3 | -39.78 |        |        | -41.49 | 1.71   | Peak   | VERTICAL  |

## Remark:

1. #5: MS Signal
2. #6: BS Signal

**Trace: (Discrete)**

Site : 08CH06-HY  
Condition : HF-SPURIOUS-060929 VERTICAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780813  
Mode : HSDPA Link + Adaptor

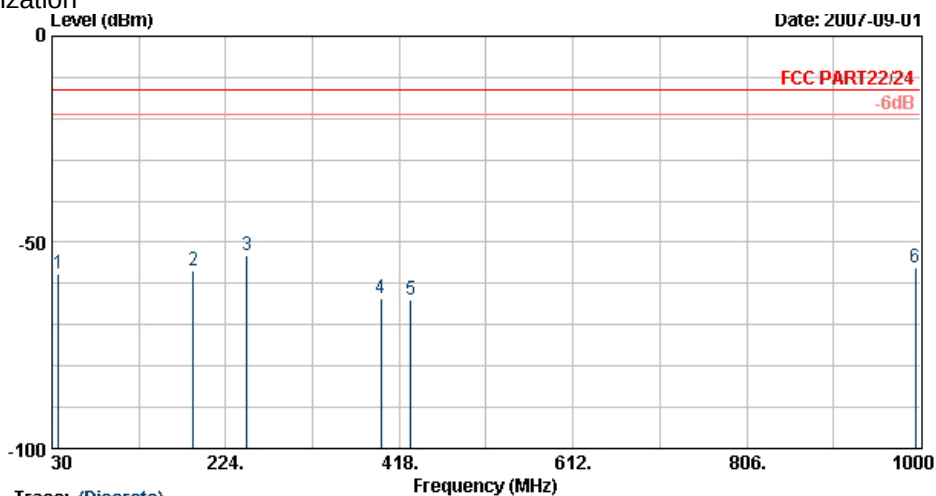
|   | Freq   | Level  | Over   | Limit  | Read   |        |        |           |
|---|--------|--------|--------|--------|--------|--------|--------|-----------|
|   | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|   | MHz    | dBm    | dB     | dBm    | dBm    | dB     |        |           |
| 1 | 1328.0 | -45.29 | -32.29 | -13.00 | -44.03 | -1.27  | Peak   | VERTICAL  |
| 2 | 2388.0 | -50.45 | -37.45 | -13.00 | -57.28 | 6.83   | Peak   | VERTICAL  |
| 3 | 2488.0 | -51.33 | -38.33 | -13.00 | -58.50 | 7.17   | Peak   | VERTICAL  |

Remark : There is no more obvious emission except the listings above.



## 4.2.5.7 Mode 7

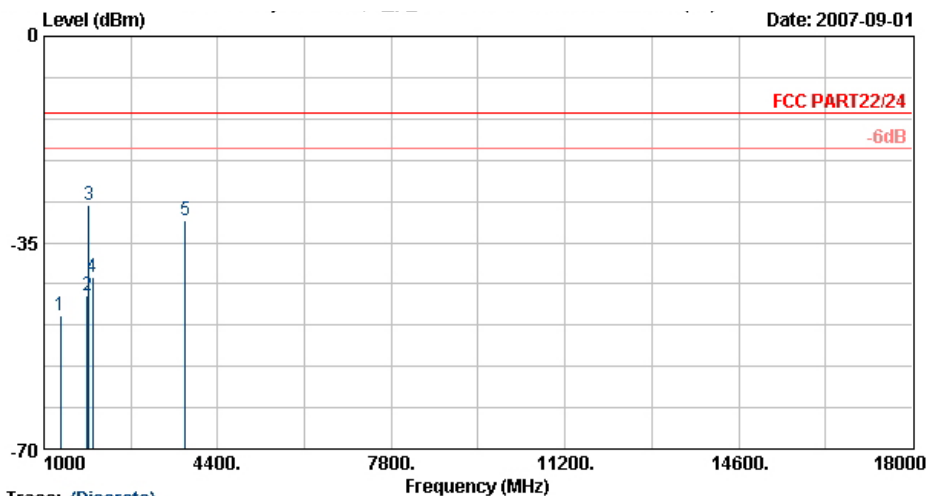
Horizontal Polarization



Trace: (Discrete)

Site : 03CH06-HY  
Condition : LF-SFURIOUS HORIZONTAL  
EUT : Notebook  
Power : 120V<sub>ac</sub>/60Hz  
Model : FG 780814  
Mode : WCDMA BAND II Link + Adaptor

|   | Freq  | Level  | Over   | Limit  | Read   |        |        |            |
|---|-------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz   | dBm    | dB     | dBm    | dBm    | Factor | Remark | Pol/Phase  |
| 1 | 37.3  | -57.49 | -44.49 | -13.00 | -52.98 | -4.51  | Peak   | HORIZONTAL |
| 2 | 187.7 | -56.77 | -43.77 | -13.00 | -43.51 | -13.26 | Peak   | HORIZONTAL |
| 3 | 247.9 | -53.07 | -40.07 | -13.00 | -41.36 | -11.72 | Peak   | HORIZONTAL |
| 4 | 397.3 | -63.72 | -50.72 | -13.00 | -57.15 | -6.57  | Peak   | HORIZONTAL |
| 5 | 430.9 | -63.97 | -50.97 | -13.00 | -57.90 | -6.07  | Peak   | HORIZONTAL |
| 6 | 994.4 | -56.13 | -43.13 | -13.00 | -56.31 | 0.18   | Peak   | HORIZONTAL |



Trace: (Discrete)

Site : 08CH06-HY  
 Condition : HF-SPURIOUS-060929 HORIZONTAL  
 EUT : Notebook  
 Power : 120Vac/60Hz  
 Model : FG 780814  
 Mode : WCDMA BAND II Link + Adaptor

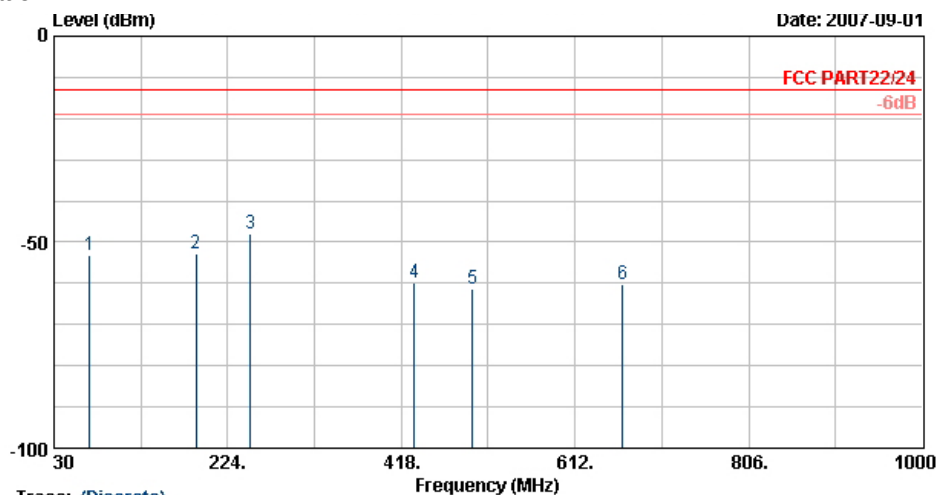
|     | Freq   | Level  | Over   | Limit  | Read   |       |        |            |
|-----|--------|--------|--------|--------|--------|-------|--------|------------|
|     | MHz    | dBm    | dB     | dBm    | dBm    | dB    | Remark | Pol/Phase  |
| 1   | 1328.0 | -47.27 | -34.27 | -13.00 | -48.23 | 0.96  | Peak   | HORIZONTAL |
| 2   | 1844.0 | -44.00 | -31.00 | -13.00 | -43.66 | -0.34 | Peak   | HORIZONTAL |
| 3 @ | 1878.0 | -28.54 |        |        | -28.03 | -0.51 | Peak   | HORIZONTAL |
| 4   | 1958.0 | -40.75 |        |        | -39.64 | -1.11 | Peak   | HORIZONTAL |
| 5   | 3764.0 | -31.14 | -18.14 | -13.00 | -41.58 | 10.44 | Peak   | HORIZONTAL |

Remark:

1. #3: MS Signal
2. #4: BS Signal

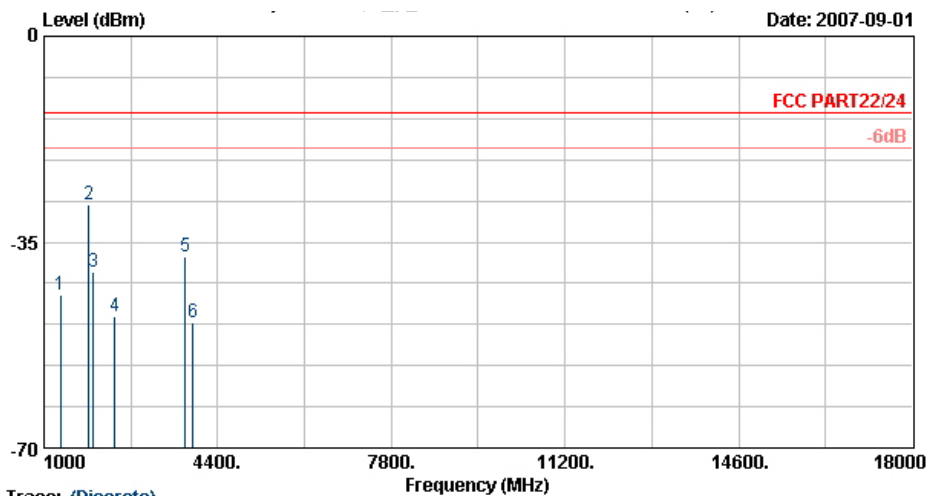


## Vertical Polarization



Trace: (Discrete)  
Site : 08CH06-HY  
Condition : LF-SFURIOUS VERTICAL  
EUT : Notebook  
Power : 120V<sub>ac</sub>/60Hz  
Model : FG 780814  
Mode : WCDMA BAND II Link + Adaptor

|   | Freq  | Level  | Over   | Limit  | Read   |        |        |           |
|---|-------|--------|--------|--------|--------|--------|--------|-----------|
|   | MHz   | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|   |       | dB     | dBm    | dBm    | dB     |        |        |           |
| 1 | 69.7  | -53.04 | -40.04 | -13.00 | -41.01 | -12.02 | Peak   | VERTICAL  |
| 2 | 189.0 | -52.77 | -39.77 | -13.00 | -44.28 | -8.49  | Peak   | VERTICAL  |
| 3 | 249.2 | -47.79 | -34.79 | -13.00 | -40.25 | -7.54  | Peak   | VERTICAL  |
| 4 | 432.3 | -59.91 | -46.91 | -13.00 | -55.97 | -3.94  | Peak   | VERTICAL  |
| 5 | 497.4 | -61.40 | -48.40 | -13.00 | -58.24 | -3.16  | Peak   | VERTICAL  |
| 6 | 665.4 | -60.19 | -47.19 | -13.00 | -59.23 | -0.95  | Peak   | VERTICAL  |

**Trace: (Discrete)**

Site : 08CH06-HY  
Condition : HF-SFURIOUS-060929 VERTICAL  
EUT : Notebook  
Power : 120V<sub>ac</sub>/60Hz  
Model : FG 780814  
Mode : WCDMA BAND II Link + Adaptor

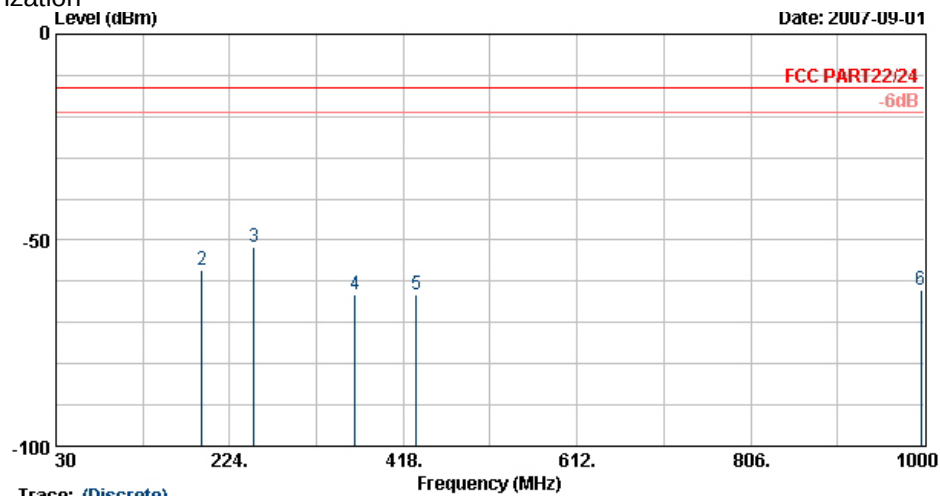
|     | Freq   | Level  | Over   | Limit  | Read   |        |        |           |
|-----|--------|--------|--------|--------|--------|--------|--------|-----------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|     | MHz    | dBm    | dB     | dBm    | dBm    | dB     |        |           |
| 1   | 1328.0 | -44.04 | -31.04 | -13.00 | -43.24 | -0.80  | Peak   | VERTICAL  |
| 2 @ | 1878.0 | -28.75 |        |        | -28.34 | -0.40  | Peak   | VERTICAL  |
| 3   | 1962.0 | -39.95 |        |        | -39.35 | -0.60  | Peak   | VERTICAL  |
| 4   | 2394.0 | -47.64 | -34.64 | -13.00 | -49.51 | 1.87   | Peak   | VERTICAL  |
| 5   | 3764.0 | -37.37 | -24.37 | -13.00 | -47.32 | 9.95   | Peak   | VERTICAL  |
| 6   | 3918.0 | -48.68 | -35.68 | -13.00 | -59.16 | 10.48  | Peak   | VERTICAL  |

**Remark:**

1. #2: MS Signal
2. #3: BS Signal
3. There is no more obvious emission except the listings above.

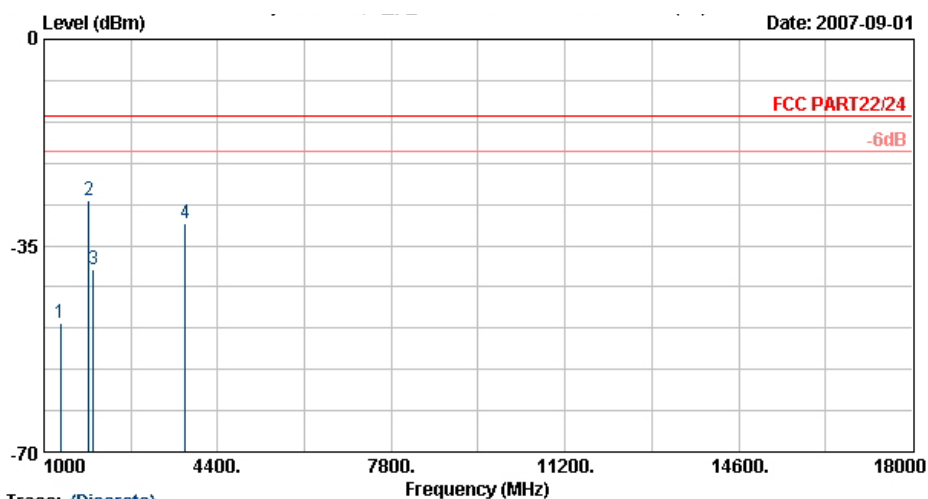
**4.2.5.8 Mode 8**

Horizontal Polarization



Site : 03CH06-HY  
Condition : LF-SFURIOUS HORIZONTAL  
EUT : Notebook  
Power : 120V ac 60Hz  
Model : FG780814  
Mode : HSDPA Link + Adaptor

|   | Freq  | Level  | Over   | Limit  | Read   |        |        |            |
|---|-------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz   | dBm    | dB     | dBm    | dBm    | dB     | Remark | Pol/Phase  |
| 1 | 30.0  | -64.26 | -51.26 | -13.00 | -64.62 | 0.36   | Peak   | HORIZONTAL |
| 2 | 192.5 | -57.22 | -44.22 | -13.00 | -43.91 | -13.31 | Peak   | HORIZONTAL |
| 3 | 251.1 | -51.63 | -38.63 | -13.00 | -40.01 | -11.62 | Peak   | HORIZONTAL |
| 4 | 364.4 | -63.28 | -50.28 | -13.00 | -55.58 | -7.70  | Peak   | HORIZONTAL |
| 5 | 432.3 | -63.26 | -50.26 | -13.00 | -57.22 | -6.05  | Peak   | HORIZONTAL |
| 6 | 995.8 | -62.25 | -49.25 | -13.00 | -62.45 | 0.20   | Peak   | HORIZONTAL |

**Trace: (Discrete)**

Site : 08CH06-HY  
Condition : HF-SFURIOUS-060929 HORIZONTAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780814  
Mode : HSDPA Link + Adaptor

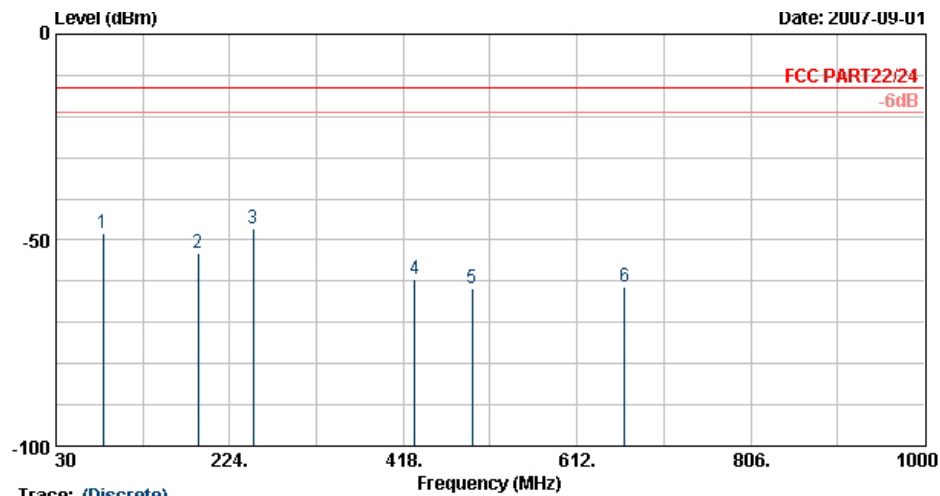
|     | Freq   | Level  | Over   | Limit  | Read   |        |        |            |
|-----|--------|--------|--------|--------|--------|--------|--------|------------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase  |
|     |        |        | dB     | dBm    | dBm    | dB     |        |            |
| 1   | 1328.0 | -48.22 | -35.22 | -13.00 | -47.89 | -0.33  | Peak   | HORIZONTAL |
| 2 @ | 1884.0 | -27.43 |        |        | -31.33 | 3.90   | Peak   | HORIZONTAL |
| 3 @ | 1960.0 | -39.13 |        |        | -43.54 | 4.41   | Peak   | HORIZONTAL |
| 4 @ | 3764.0 | -31.20 | -18.20 | -13.00 | -41.65 | 10.44  | Peak   | HORIZONTAL |

Remark:

1. #2: MS Signal
2. #3: BS Signal



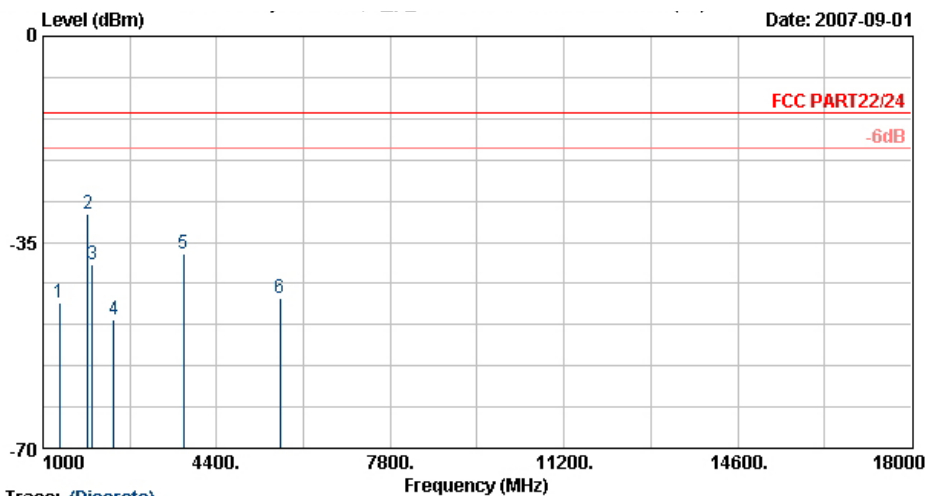
## Vertical Polarization



## Trace: (Discrete)

Site : 08CH06-HY  
Condition : LF-SFURIOUS VERTICAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780814  
Mode : HSDPA Link + Adaptor

|   | Freq  | Level  | Over   | Limit  | Read   |        |        |           |
|---|-------|--------|--------|--------|--------|--------|--------|-----------|
|   | MHz   | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|   | MHz   | dBm    | dB     | dBm    | dBm    | dB     |        |           |
| 1 | 82.4  | -48.22 | -35.22 | -13.00 | -38.02 | -10.21 | Peak   | VERTICAL  |
| 2 | 188.5 | -53.09 | -40.09 | -13.00 | -44.60 | -8.49  | Peak   | VERTICAL  |
| 3 | 250.6 | -47.26 | -34.26 | -13.00 | -39.74 | -7.51  | Peak   | VERTICAL  |
| 4 | 430.9 | -59.63 | -46.63 | -13.00 | -55.67 | -3.96  | Peak   | VERTICAL  |
| 5 | 495.3 | -61.79 | -48.79 | -13.00 | -58.60 | -3.18  | Peak   | VERTICAL  |
| 6 | 665.4 | -61.24 | -48.24 | -13.00 | -60.29 | -0.95  | Peak   | VERTICAL  |



Site : 03CHD6-HY  
Condition : HF-SPURIOUS-060929 VERTICAL  
EUT : Notebook  
Power : 120Vac 60Hz  
Model : FG780814  
Mode : HSDPA Link + Adaptor

|     | Freq   | Level  | Over   | Limit  | Read   |        |        |           |
|-----|--------|--------|--------|--------|--------|--------|--------|-----------|
|     | MHz    | dBm    | Limit  | Line   | Level  | Factor | Remark | Pol/Phase |
|     |        |        | dB     | dBm    | dBm    | dB     |        |           |
| 1   | 1324.0 | -45.15 | -32.15 | -13.00 | -43.89 | -1.27  | Peak   | VERTICAL  |
| 2 @ | 1878.0 | -30.06 |        |        | -34.36 | 4.29   | Peak   | VERTICAL  |
| 3 @ | 1960.0 | -38.76 |        |        | -43.77 | 5.01   | Peak   | VERTICAL  |
| 4   | 2388.0 | -48.03 | -35.03 | -13.00 | -54.87 | 6.83   | Peak   | VERTICAL  |
| 5 @ | 3758.0 | -36.87 | -23.87 | -13.00 | -46.76 | 9.89   | Peak   | VERTICAL  |
| 6 @ | 5638.0 | -44.42 | -31.42 | -13.00 | -61.39 | 16.97  | Peak   | VERTICAL  |

## Remark:

1. #2: MS Signal
2. #3: BS Signal
3. There is no more obvious emission except the listings above.



## 5. List of Measurement Equipments

| Instrument                | Manufacturer  | Model No. | Serial No. | Characteristics | Calibration Date | Due Date      | Remark                |
|---------------------------|---------------|-----------|------------|-----------------|------------------|---------------|-----------------------|
| Spectrum analyzer         | Agilent       | E4408B    | MY44211030 | 9KHz-26.5GHz    | Oct. 05, 2006    | Oct. 04, 2007 | Radiation (03CH06-HY) |
| EMI Test Receiver         | R&S           | ESCS30    | 100356     | 9KHz-2.75GHz    | Jul. 26, 200     | Jul. 25, 2008 | Radiation (03CH06-HY) |
| Bilog Antenna             | SCHAFFNER     | CBL6112B  | 2885       | 30MHz -2GHz     | Nov. 20, 2006    | Nov. 19, 2007 | Radiation (03CH06-HY) |
| Double Ridge Horn Antenna | Com-Power     | AH118     | 071025     | 1G~18G          | Jun. 04, 2007    | Jun. 03, 2008 | Radiation (03CH06-HY) |
| SHF-EHF Horn              | SCHWARZBECK   | BBHA 9170 | 9170-249   | 14G - 40G       | Nov. 20, 2006    | Nov. 19, 2008 | Radiation (03CH06-HY) |
| Pre Amplifier             | Agilent       | 8449B     | 3008A01917 | 1G - 26.5G      | Nov. 15, 2006    | Nov. 14, 2007 | Radiation (03CH06-HY) |
| Pre Amplifier             | Mini Circuits | ZKL-2     | D092004-1  | 10~2500MHz      | Nov. 15, 2006    | Nov. 14, 2007 | Radiation (03CH06-HY) |
| Base Station Simulator    | R & S         | CMU200    | 106656     | WCDMA           | Nov. 20, 2006    | Nov. 19, 2007 | Radiation (03CH06-HY) |

## 6. Uncertainty Evaluation

### Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

| Contribution                                                                         | Uncertainty of $x_i$ |                          | $u(x_i)$ |
|--------------------------------------------------------------------------------------|----------------------|--------------------------|----------|
|                                                                                      | dB                   | Probability Distribution |          |
| Receiver reading                                                                     | 0.41                 | Normal(k=2)              | 0.21     |
| Antenna factor calibration                                                           | 0.83                 | Normal(k=2)              | 0.42     |
| Cable loss calibration                                                               | 0.25                 | Normal(k=2)              | 0.13     |
| Pre Amplifier Gain calibration                                                       | 0.27                 | Normal(k=2)              | 0.14     |
| RCV/SPA specification                                                                | 2.50                 | Rectangular              | 0.72     |
| Antenna Factor Interpolation for Frequency                                           | 1.00                 | Rectangular              | 0.29     |
| Site imperfection                                                                    | 1.43                 | Rectangular              | 0.83     |
| Mismatch                                                                             | +0.39/-0.41          | U-shaped                 | 0.28     |
| <b>Combined standard uncertainty <math>U_c(y)</math></b>                             | <b>1.27</b>          |                          |          |
| <b>Measuring uncertainty for a level of confidence of 95% <math>U=2U_c(y)</math></b> | <b>2.54</b>          |                          |          |

### Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

| Contribution                                                                                                                                   | Uncertainty of $x_i$ |                          | $u(x_i)$ | $C_i$ | $C_i * u(x_i)$ |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|----------|-------|----------------|
|                                                                                                                                                | dB                   | Probability Distribution |          |       |                |
| Receiver reading                                                                                                                               | ±0.10                | Normal(k=1)              | 0.10     | 1     | 0.10           |
| Antenna factor calibration                                                                                                                     | ±1.70                | Normal(k=2)              | 0.85     | 1     | 0.85           |
| Cable loss calibration                                                                                                                         | ±0.50                | Normal(k=2)              | 0.25     | 1     | 0.25           |
| Receiver Correction                                                                                                                            | ±2.00                | Rectangular              | 1.15     | 1     | 1.15           |
| Antenna Factor Directional                                                                                                                     | ±1.50                | Rectangular              | 0.87     | 1     | 0.87           |
| Site imperfection                                                                                                                              | ±2.80                | Triangular               | 1.14     | 1     | 1.14           |
| Mismatch<br>Receiver VSWR $\Gamma_1 = 0.197$<br>Antenna VSWR $\Gamma_2 = 0.194$<br>Uncertainty = $20 \log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$ | +0.34/-0.35          | U-shaped                 | 0.244    | 1     | 0.244          |
| <b>Combined standard uncertainty <math>U_c(y)</math></b>                                                                                       | <b>2.36</b>          |                          |          |       |                |
| <b>Measuring uncertainty for a level of confidence of 95% <math>U=2U_c(y)</math></b>                                                           | <b>4.72</b>          |                          |          |       |                |

END OF TEST REPORT