

FCC Part 24 Transmitter Certification

Test Report

FCC ID: DNY0A1MINIM1900

FCC Rule Part: CFR 47 Part 24E

ACS Report Number: 06-0115-24E-A

Manufacturer: EMS Technologies, Inc.
Model: EkoMini M1.9

Test Begin Date: May 31, 2006

Test End Date: August 4, 2006

Report Issue Date: August 15, 2006



FOR THE SCOPE OF ACCREDITATION UNDER LAB Code 200612-0

This report is not be used to claim certification, approval, or endorsement by NVLAP, NIST or any government agency.

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This report contains 20 pages

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1.0 Spurious Emissions at Antenna Terminals and Inter-modulation Products

1.1 CDMA Uplink

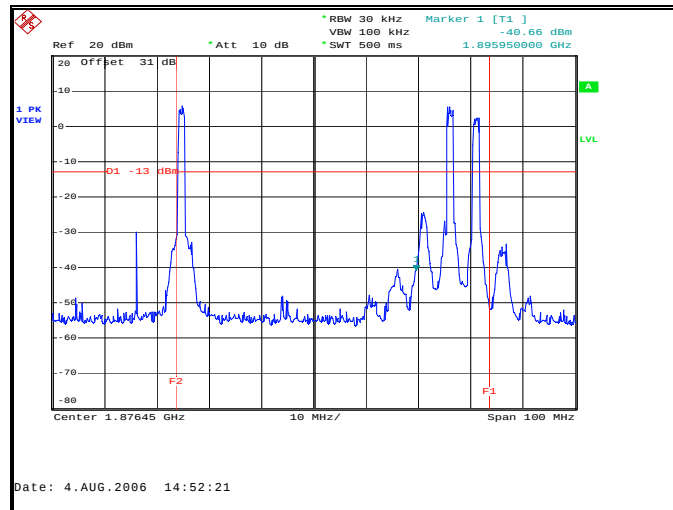


Figure 1: Spurious Emissions - Uplink CDMA Inter-modulation Products – In Band

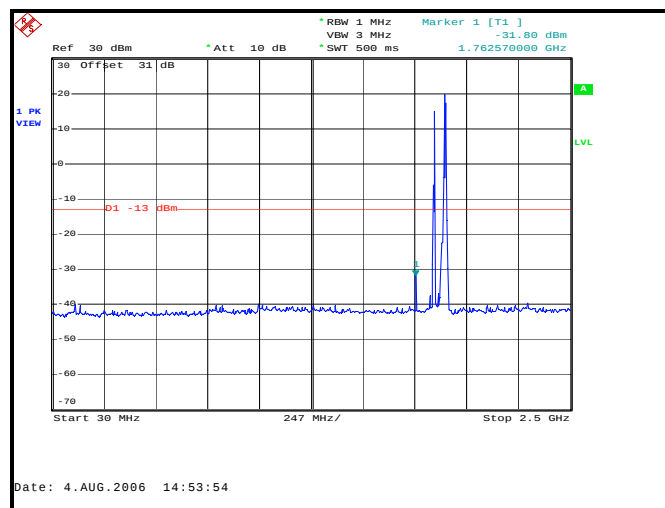


Figure 2: Spurious Emissions - Uplink CDMA Inter-modulation Products – 30 MHz to 2.5 GHz

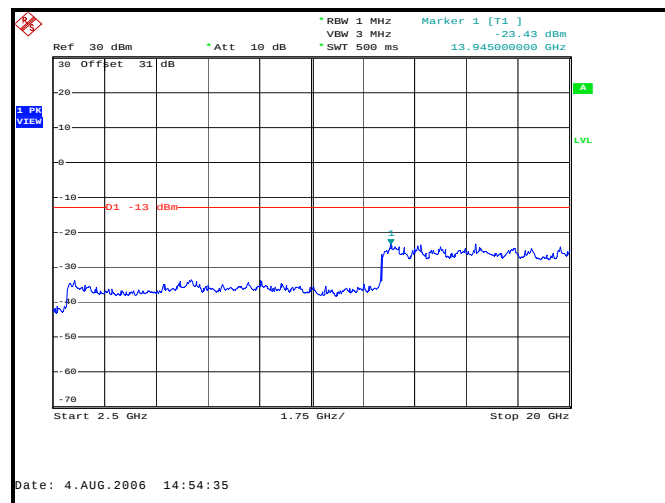


Figure 3: Spurious Emissions - Uplink CDMA Inter-modulation Products – 2.5 to 20 GHz

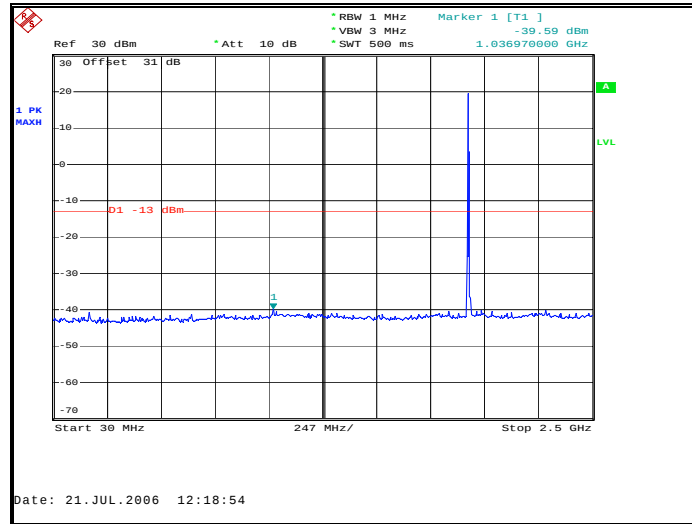


Figure 4: Spurious Emissions - Uplink CDMA Low Channel – 30 MHz to 2.5 GHz

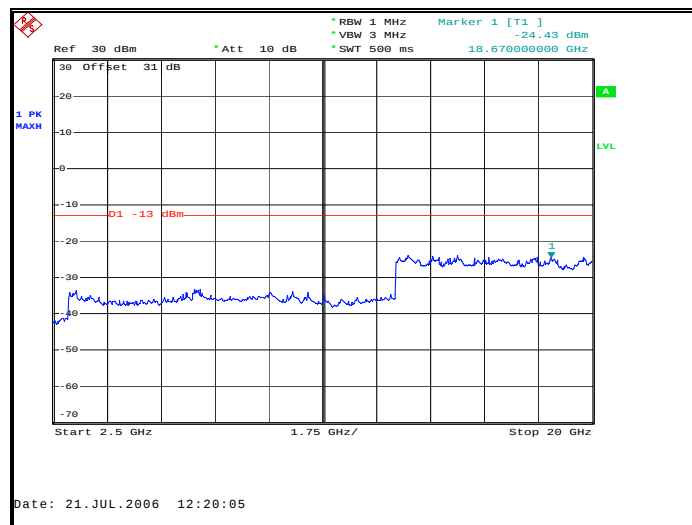


Figure 5: Spurious Emissions - Uplink CDMA Low Channel – 2.5 to 20 GHz

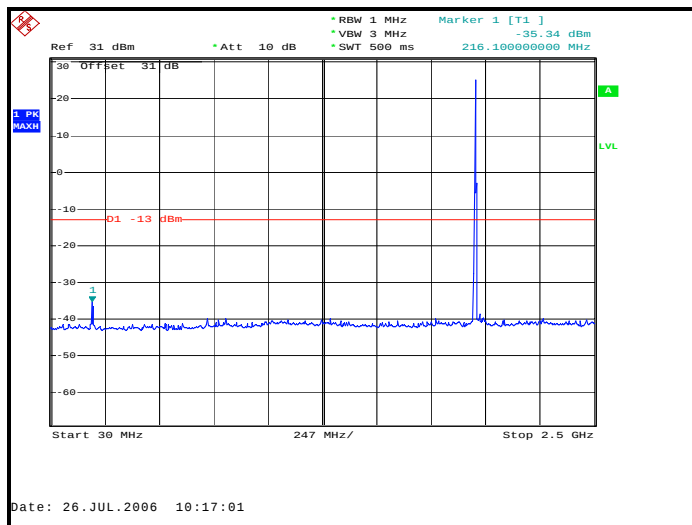


Figure 6: Spurious Emissions - Uplink CDMA Mid Channel – 30 MHz to 2.5 GHz

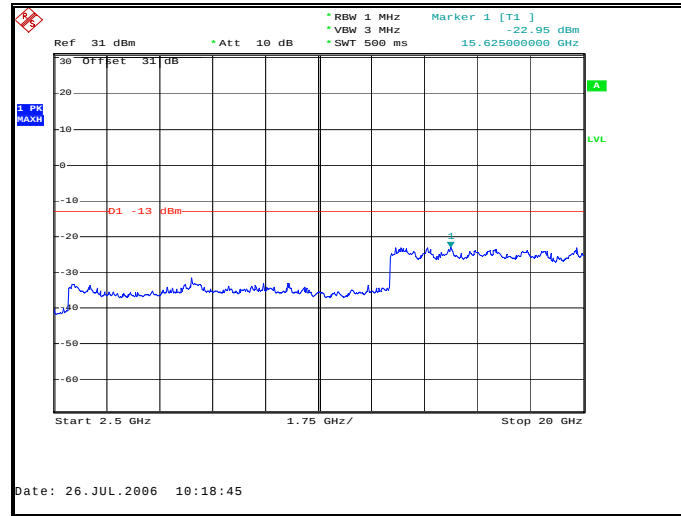


Figure 7: Spurious Emissions - Uplink CDMA Mid Channel – 2.5 to 20 GHz

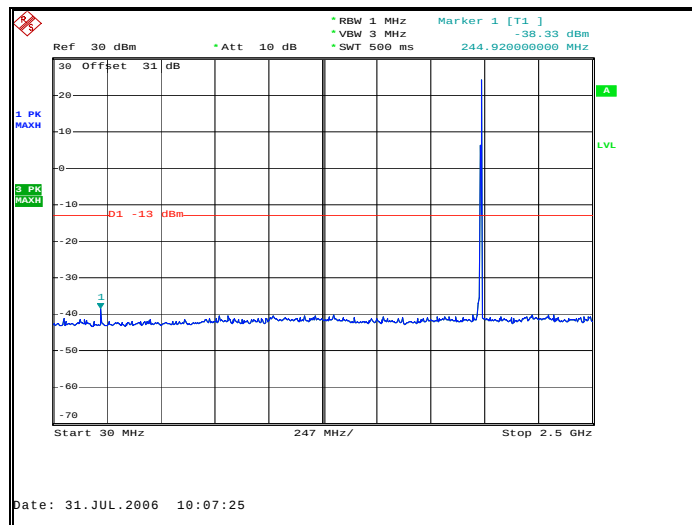


Figure 8: Spurious Emissions - Uplink CDMA High Channel – 30 MHz to 2.5 GHz

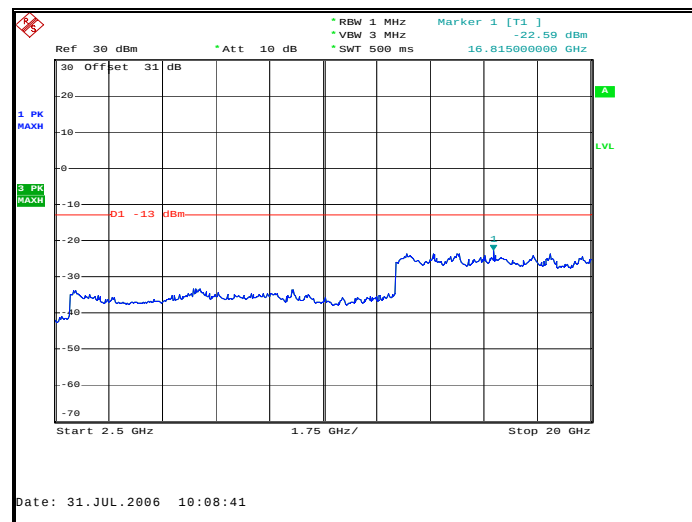


Figure 9: Spurious Emissions - Uplink CDMA High Channel – 2.5 to 20 GHz

1.2 TDMA Uplink

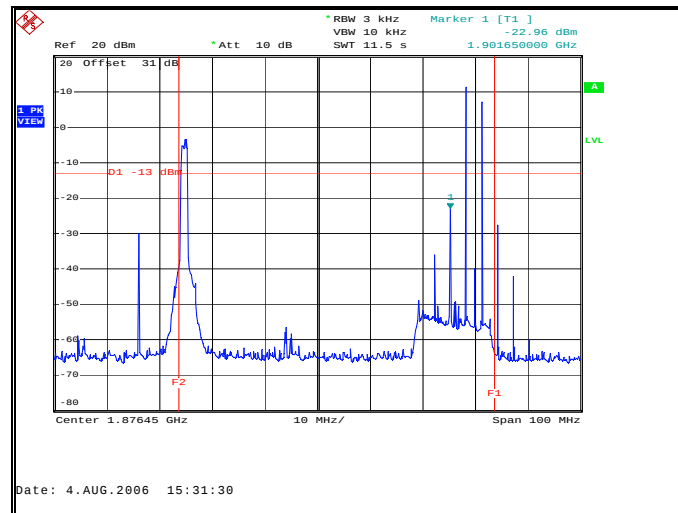


Figure 10: Spurious Emissions - Uplink TDMA Inter-modulation Products – In Band

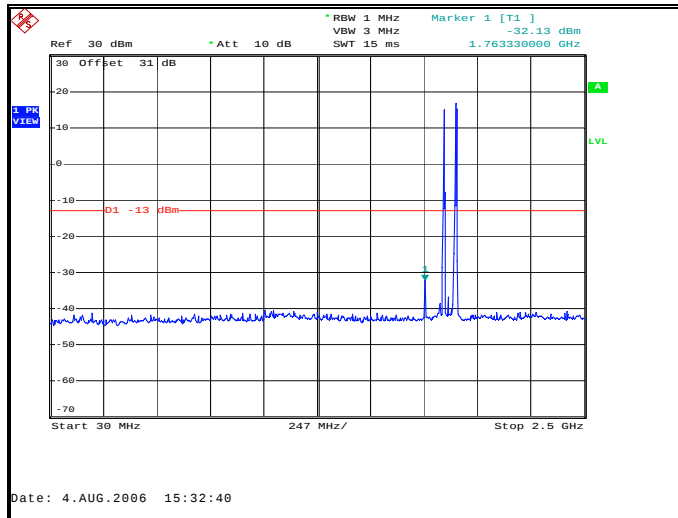


Figure 11: Spurious Emissions - Uplink TDMA Inter-modulation Products – 30 MHz to 2.5 GHz

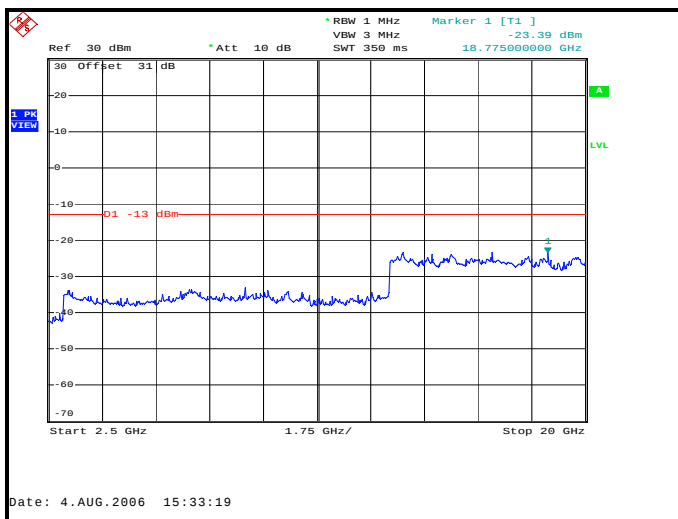


Figure 12: Spurious Emissions - Uplink TDMA Inter-modulation Products – 2.5 to 20 GHz

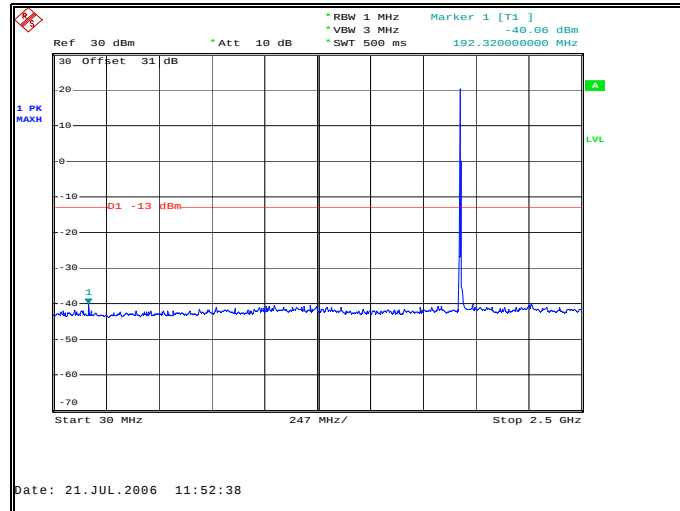


Figure 13: Spurious Emissions - Uplink TDMA Low Channel – 30 MHz to 2.5 GHz

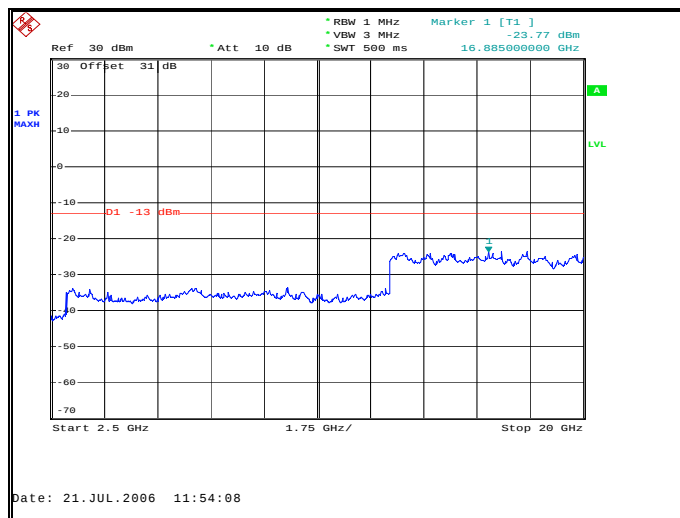


Figure 14: Spurious Emissions - Uplink TDMA Low Channel – 2.5 to 20 GHz

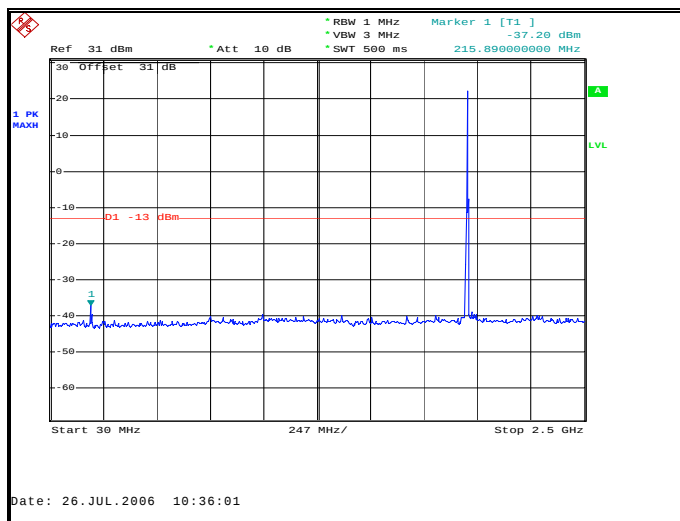


Figure 15: Spurious Emissions - Uplink TDMA Mid Channel – 30 MHz to 2.5 GHz

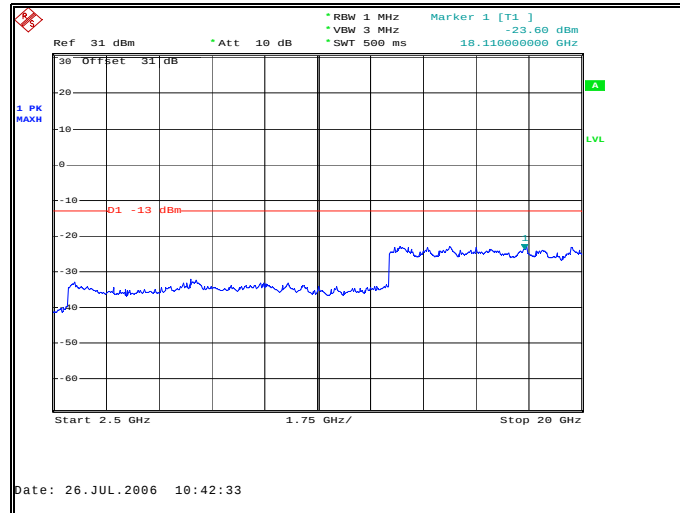


Figure 16: Spurious Emissions - Uplink TDMA Mid Channel – 2.5 to 20 GHz

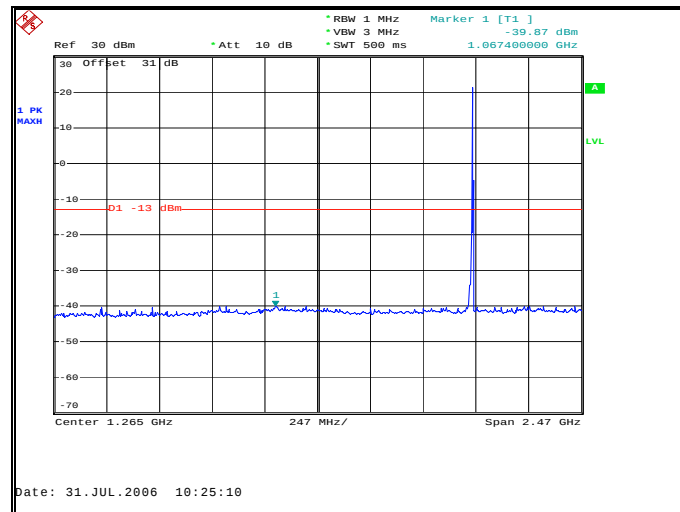


Figure 17: Spurious Emissions - Uplink TDMA High Channel – 30 MHz to 2.5 GHz

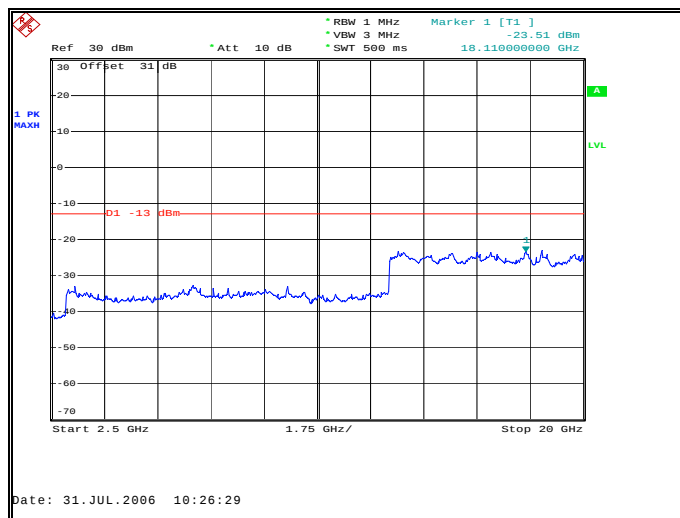


Figure 18: Spurious Emissions - Uplink TDMA High Channel – 2.5 to 20 GHz

1.3 CW Uplink – Covers FM (GSM and F1D)

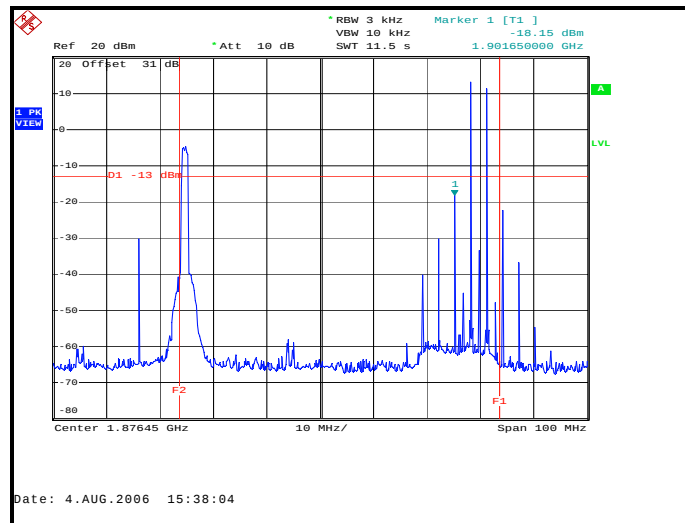


Figure 19: Spurious Emissions - Uplink CW – In Band

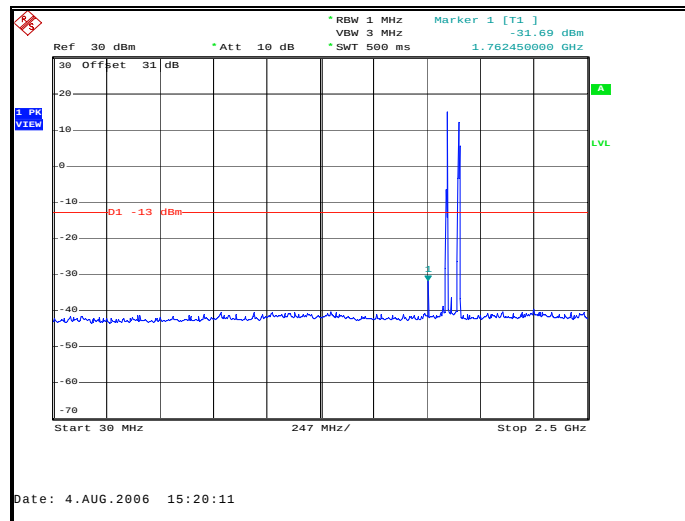


Figure 20: Spurious Emissions - Uplink CW – 30 MHz to 2.5 GHz

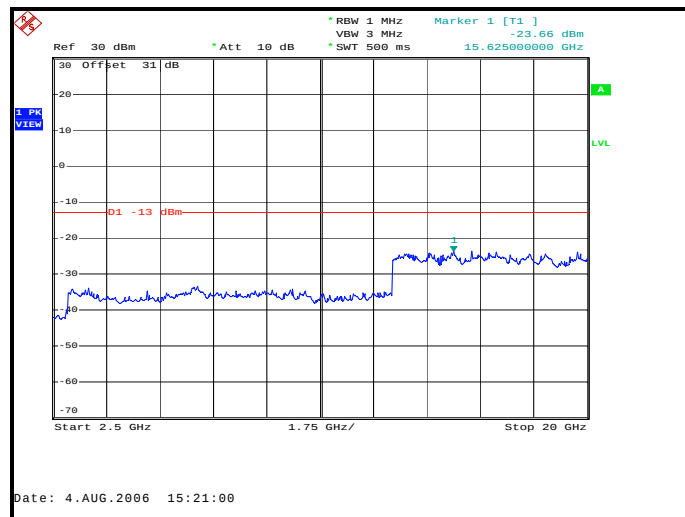


Figure 21: Spurious Emissions - Uplink CW – 2.5 to 20 GHz

1.4 GSM Uplink

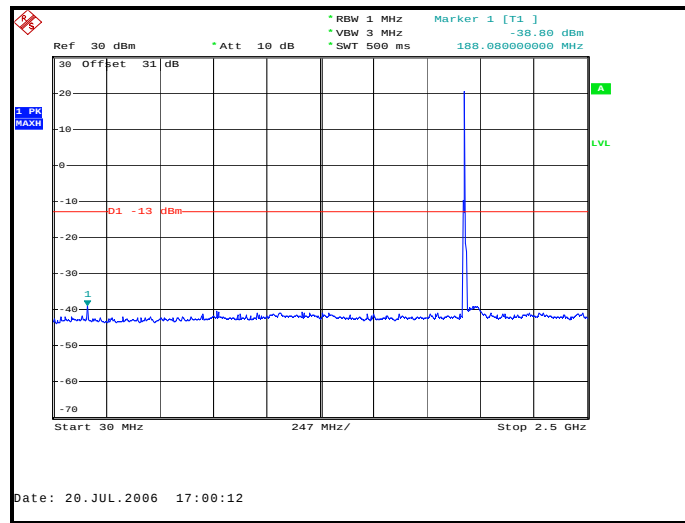


Figure 22: Spurious Emissions - Uplink GSM Low Channel – 30 MHz to 2.5 GHz

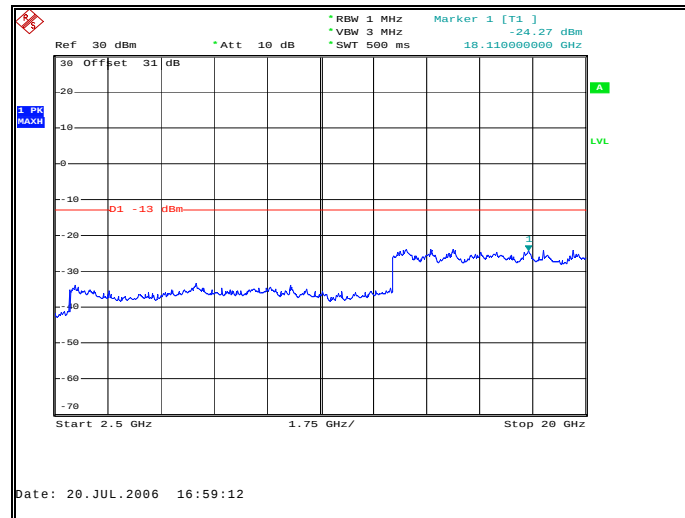


Figure 23: Spurious Emissions - Uplink GSM Low Channel – 2.5 to 20 GHz

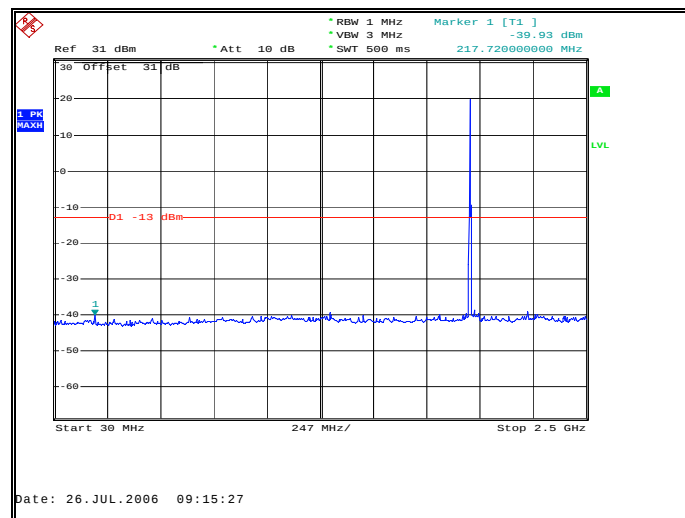


Figure 24: Spurious Emissions - Uplink GSM Mid Channel – 30 MHz to 2.5 GHz

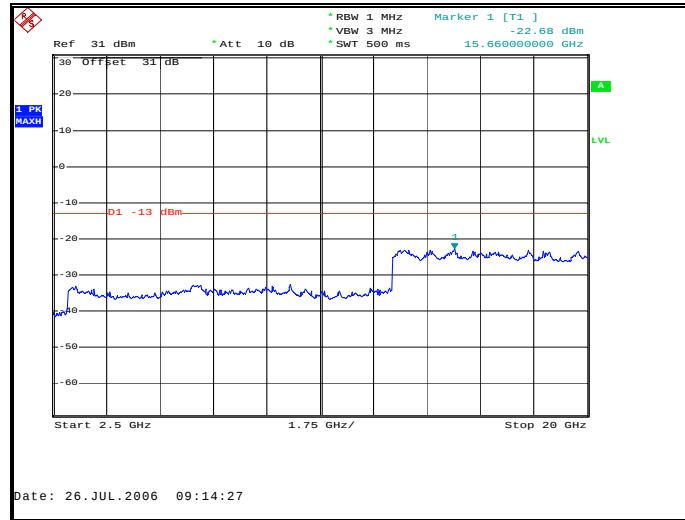


Figure 25: Spurious Emissions - Uplink GSM Mid Channel – 2.5 to 20 GHz

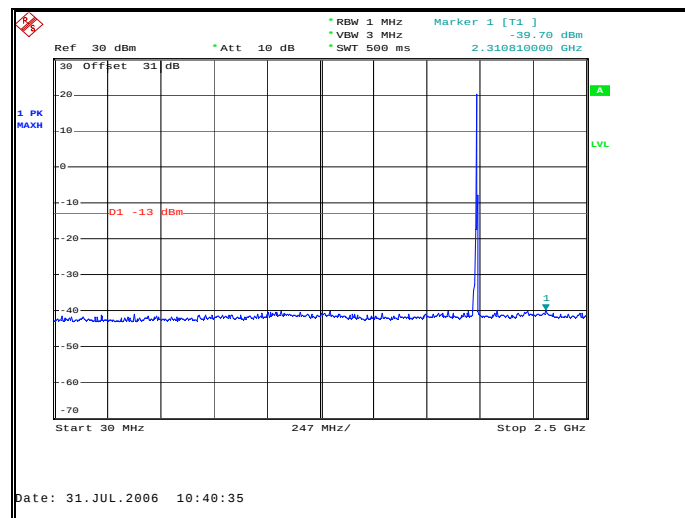


Figure 26: Spurious Emissions - Uplink GSM High Channel – 30 MHz to 2.5 GHz

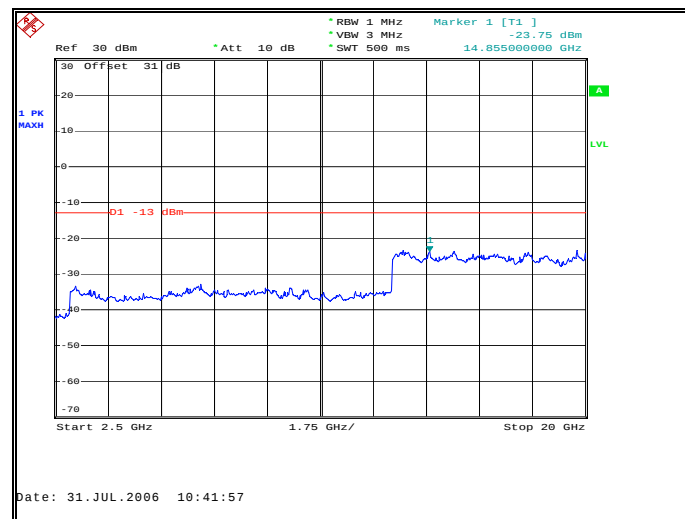


Figure 27: Spurious Emissions - Uplink GSM High Channel – 2.5 to 20 GHz

1.5 CDMA Downlink

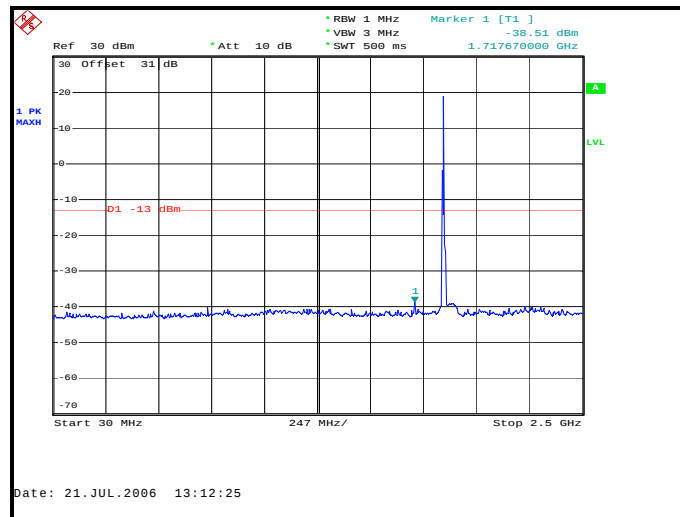


Figure 28: Spurious Emissions - Downlink CDMA Low Channel – 30 MHz to 2.5 GHz

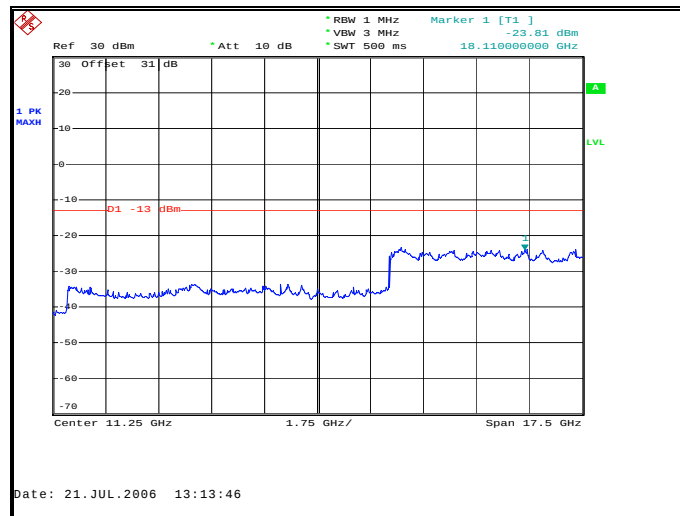


Figure 29: Spurious Emissions - Downlink CDMA Low Channel – 2.5 to 20 GHz

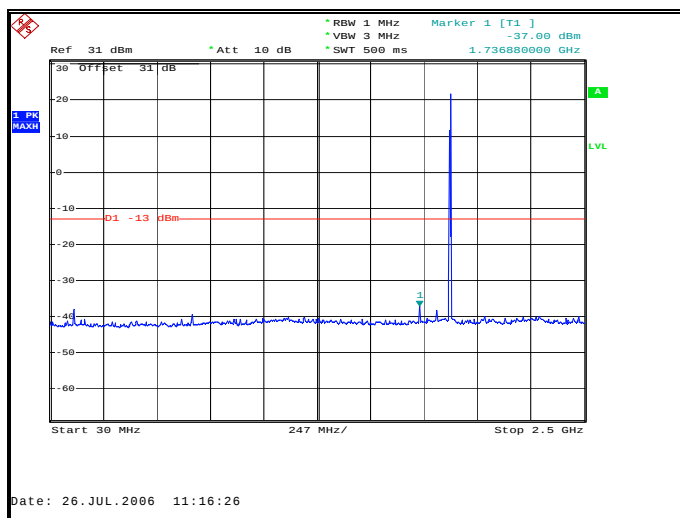


Figure 30: Spurious Emissions - Downlink CDMA Mid Channel – 30 MHz to 2.5 GHz

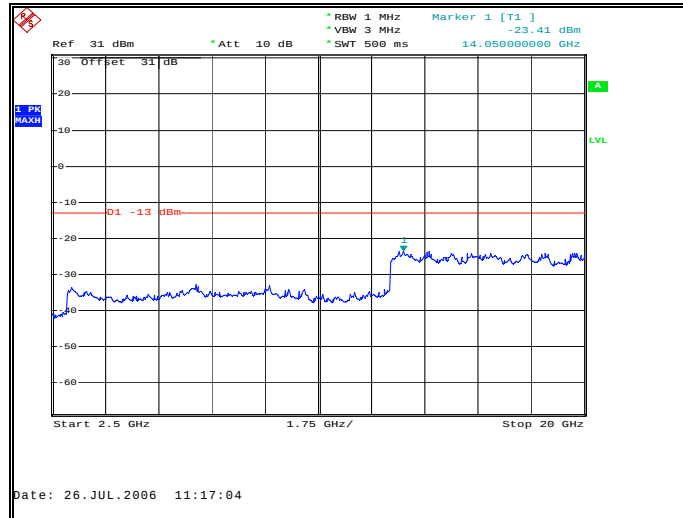


Figure 31: Spurious Emissions - Downlink CDMA Mid Channel – 2.5 to 20 GHz

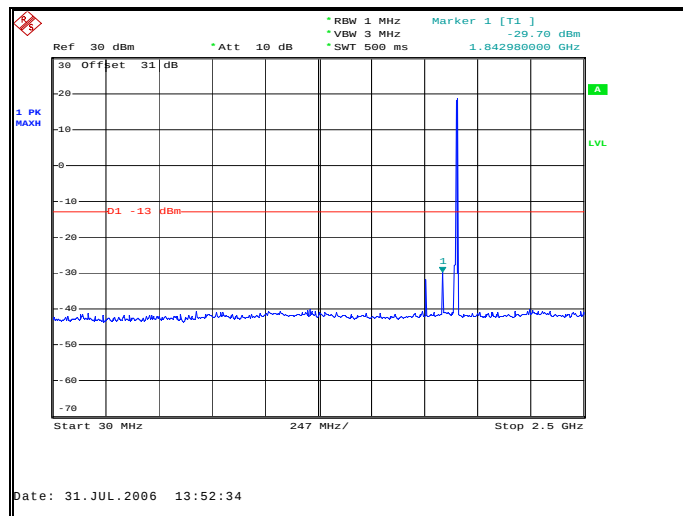


Figure 32: Spurious Emissions - Downlink CDMA High Channel – 30 MHz to 2.5 GHz

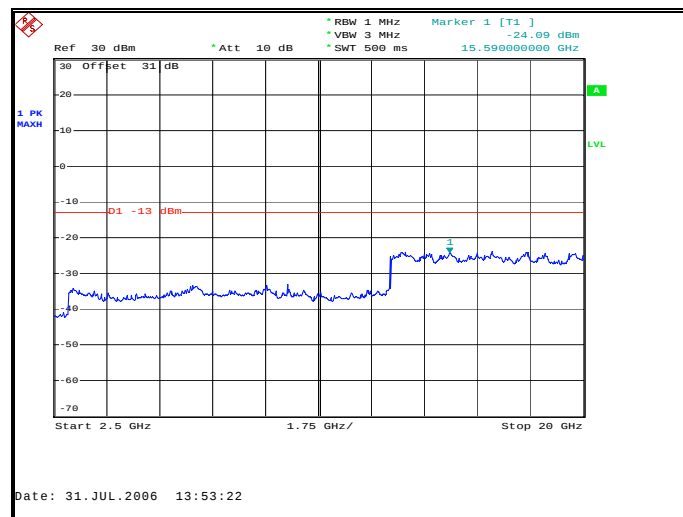


Figure 33: Spurious Emissions - Downlink CDMA High Channel – 2.5 to 20 GHz

1.6 TDMA Downlink

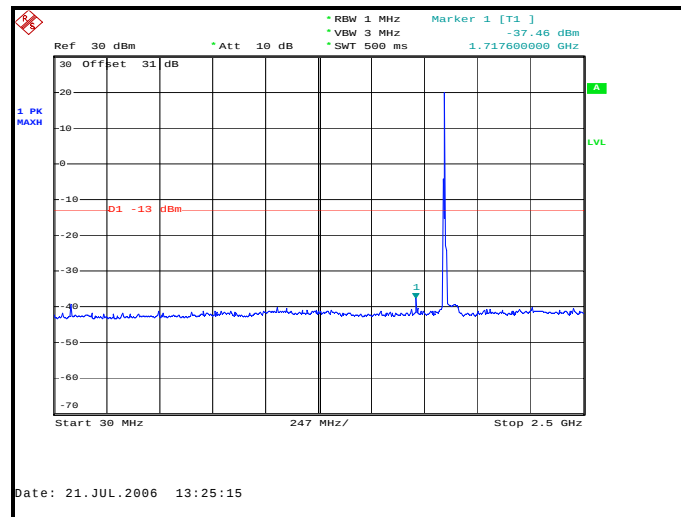


Figure 34: Spurious Emissions - Downlink TDMA Low Channel – 30 MHz to 2.5 GHz

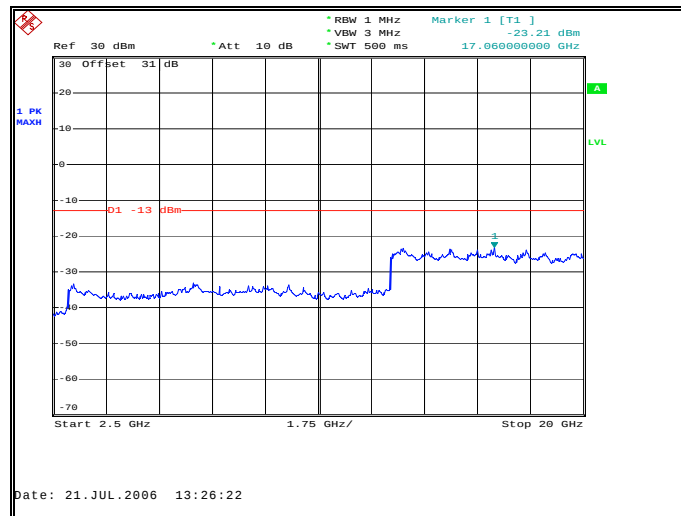


Figure 35: Spurious Emissions - Downlink TDMA Low Channel – 2.5 to 20 GHz

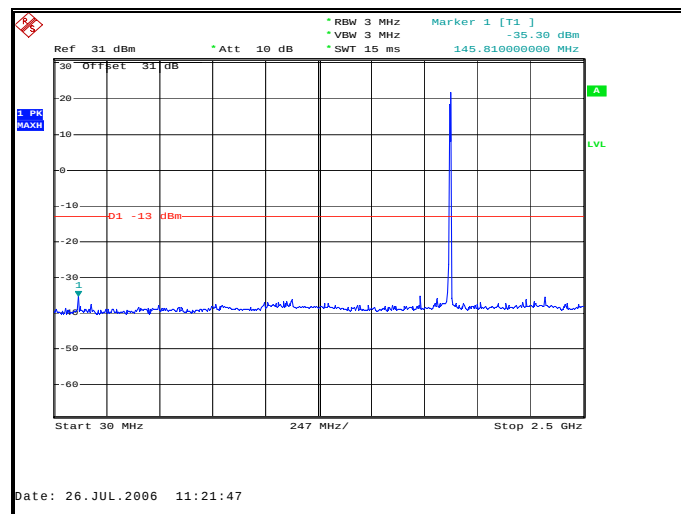


Figure 36: Spurious Emissions - Downlink TDMA Mid Channel – 30 MHz to 2.5 GHz

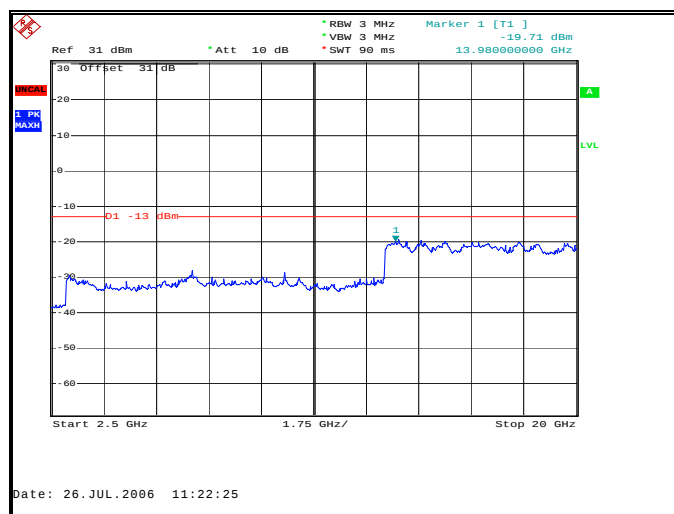


Figure 37: Spurious Emissions - Downlink TDMA Mid Channel – 2.5 to 20 GHz

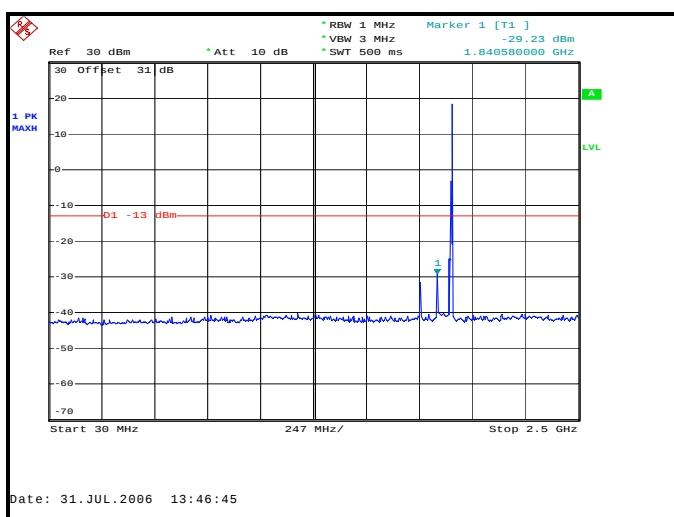


Figure 38: Spurious Emissions - Downlink TDMA High Channel – 30 MHz to 2.5 GHz

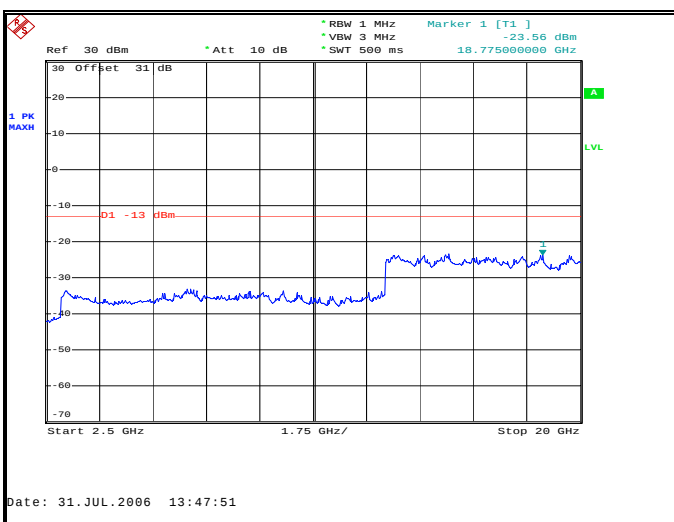


Figure 39: Spurious Emissions - Downlink TDMA High Channel – 2.5 to 20 GHz

1.7 GSM Downlink

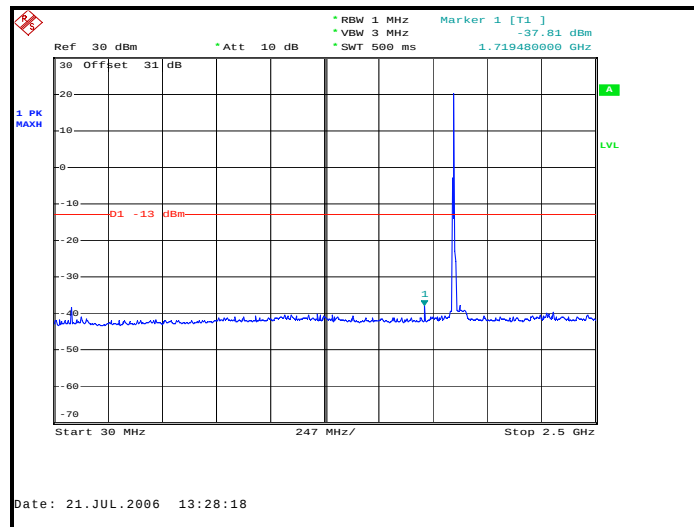


Figure 40: Spurious Emissions - Downlink GSM Low Channel – 30 MHz to 2.5 GHz

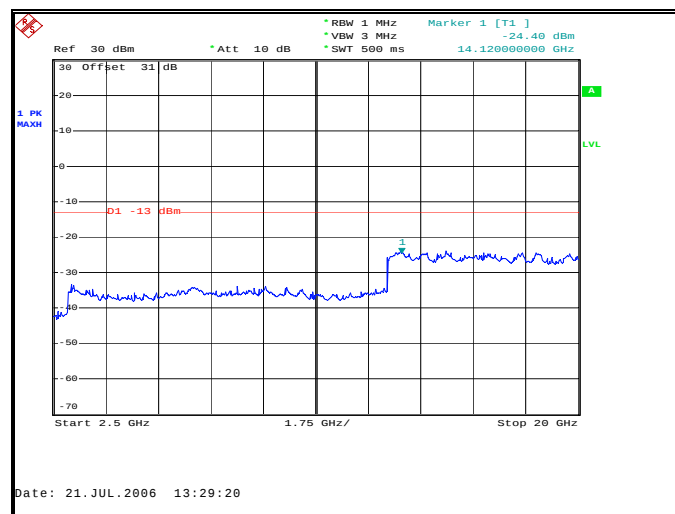


Figure 41: Spurious Emissions - Downlink GSM Low Channel – 2.5 to 20 GHz

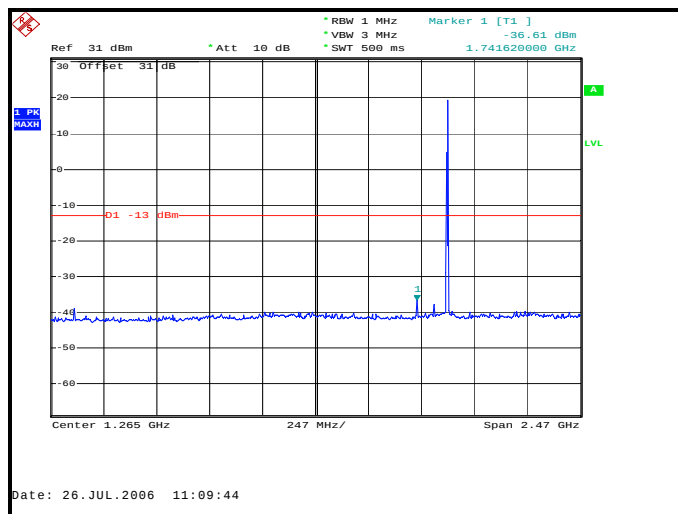


Figure 42: Spurious Emissions - Downlink GSM Mid Channel – 30 MHz to 2.5 GHz

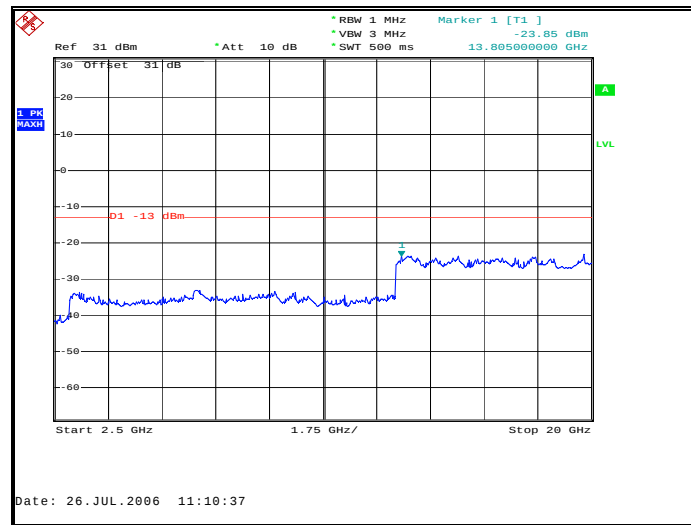


Figure 43: Spurious Emissions - Downlink GSM Mid Channel – 2.5 to 20 GHz

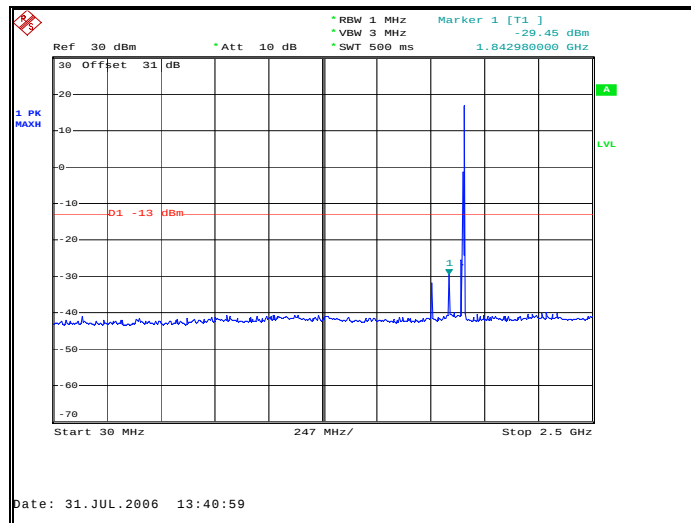


Figure 44: Spurious Emissions - Downlink GSM High Channel – 30 MHz to 2.5 GHz

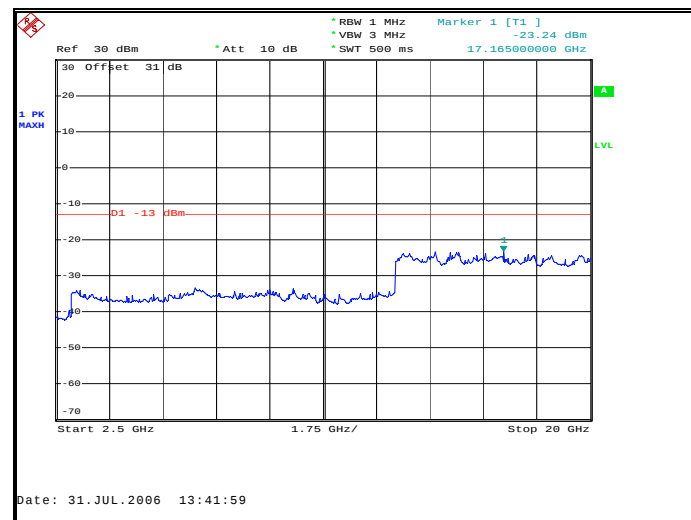


Figure 45: Spurious Emissions - Downlink GSM High Channel – 2.5 to 20 GHz

1.8 CDMA Modem

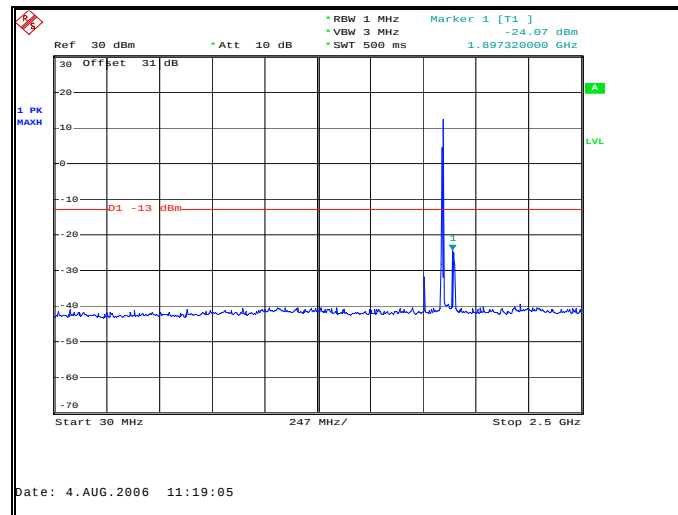


Figure 46: Spurious Emissions - CDMA Modem Low Channel – 30 MHz to 2.5 GHz

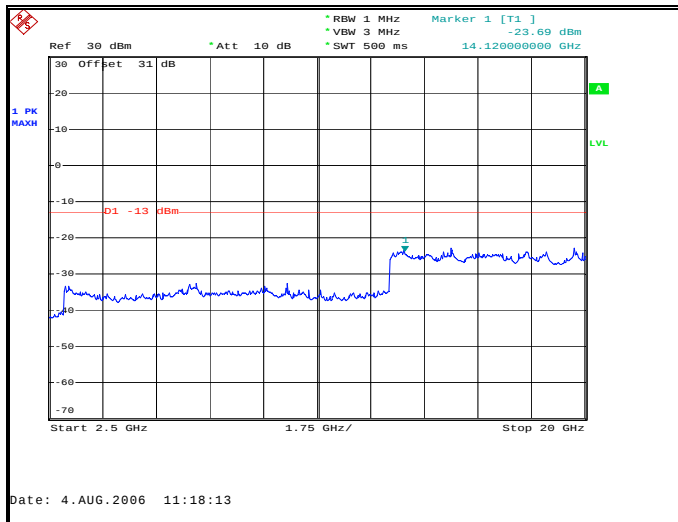


Figure 47: Spurious Emissions - CDMA Modem Low Channel – 2.5 to 20 GHz

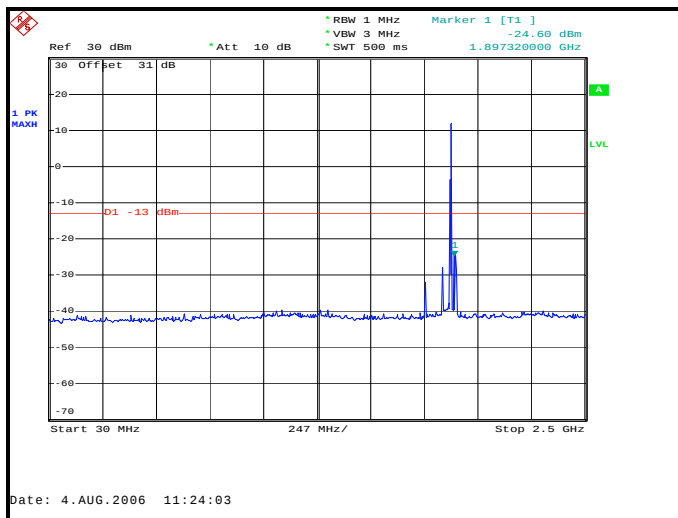


Figure 48: Spurious Emissions - CDMA Modem Mid Channel – 30 MHz to 2.5 GHz

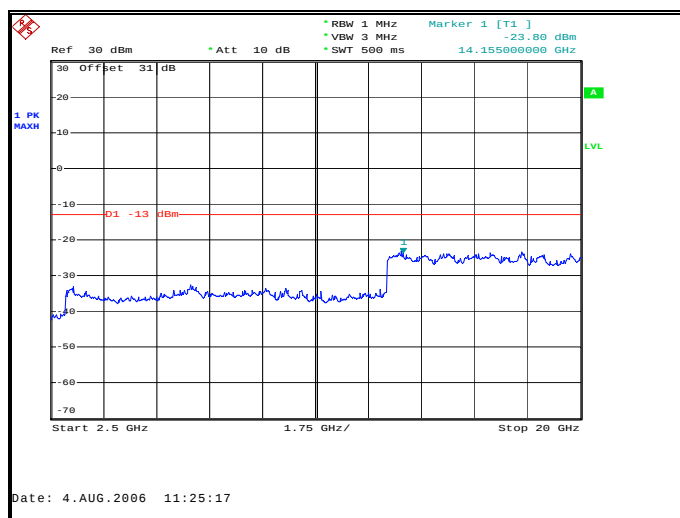


Figure 49: Spurious Emissions - CDMA Modem Mid Channel – 2.5 to 20 GHz

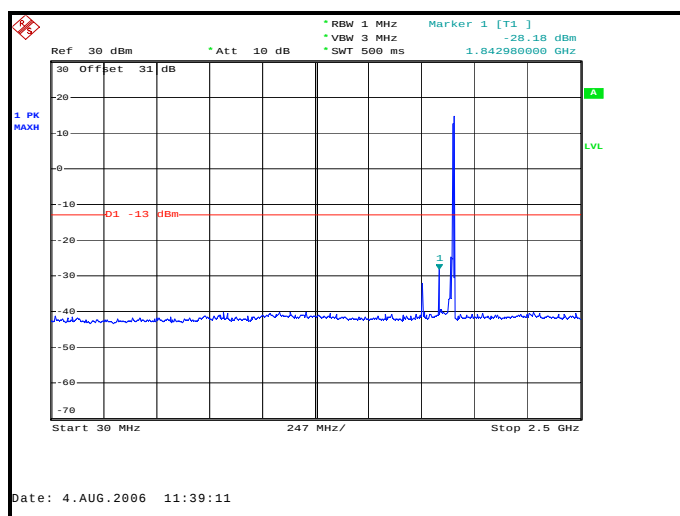


Figure 50: Spurious Emissions - CDMA Modem High Channel – 30 MHz to 2.5 GHz

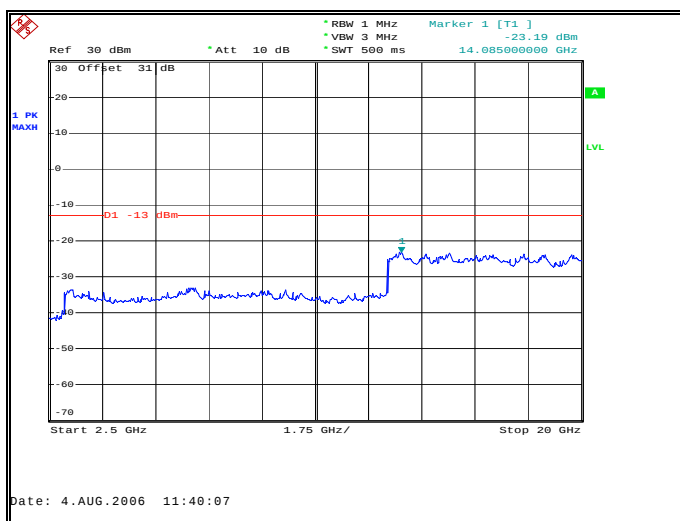


Figure 51: Spurious Emissions - CDMA Modem High Channel – 2.5 to 20 GHz

END REPORT