

FCC Part 22 Transmitter Certification

Test Report

FCC ID: DNY0A5EPCCELL8REM

FCC Rule Part: CFR 47 Part 22 Subpart H

ACS Report Number: 06-0472-22H-A

Manufacturer: EMS Wireless
Equipment Type: Cellular Fiber Optic DAS
Tradename: EkoLink Plus® II
Model: EPCCELL8REM

Test Begin Date: January 9, 2007

Test End Date: January 12, 2007

Report Issue Date: January 15, 2007



FOR THE SCOPE OF ACCREDITATION UNDER LAB Code 200612

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ACS, Inc.

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This report contains **18** pages

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1.0 Occupied Bandwidth (Input vs. Output)

1.1 Downlink

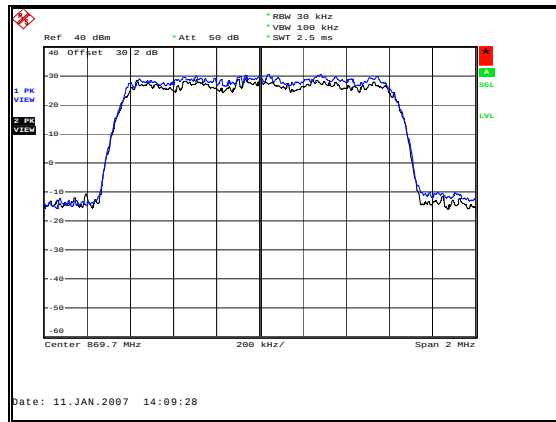


Figure 1: Occupied Bandwidth - Downlink CDMA Low Channel

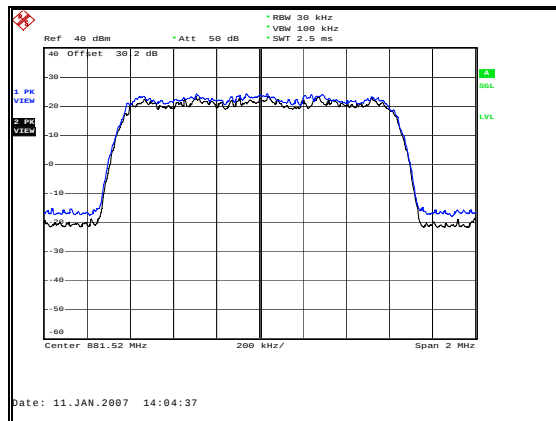


Figure 2: Occupied Bandwidth - Downlink CDMA Mid Channel

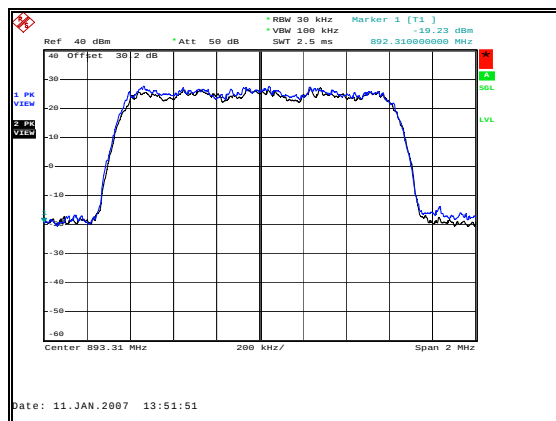


Figure 3: Occupied Bandwidth - Downlink CDMA High Channel

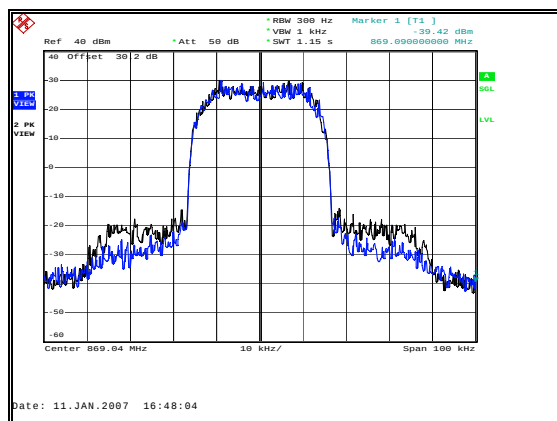


Figure 4: Occupied Bandwidth - Downlink TDMA Low Channel

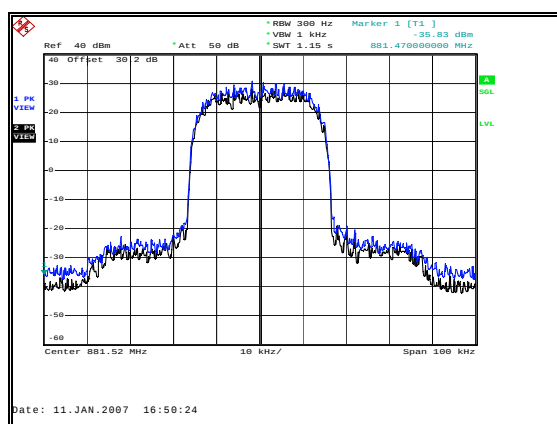


Figure 5: Occupied Bandwidth - Downlink TDMA Mid Channel

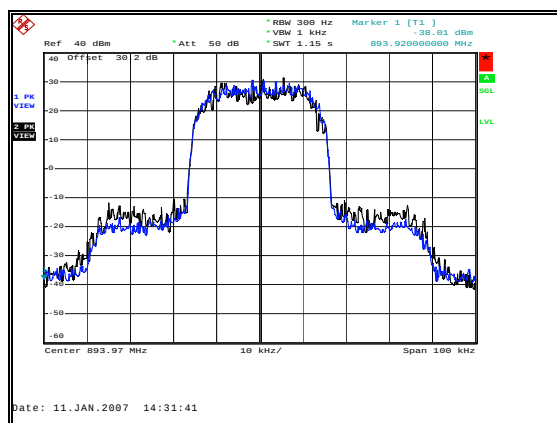


Figure 6: Occupied Bandwidth - Downlink TDMA High Channel

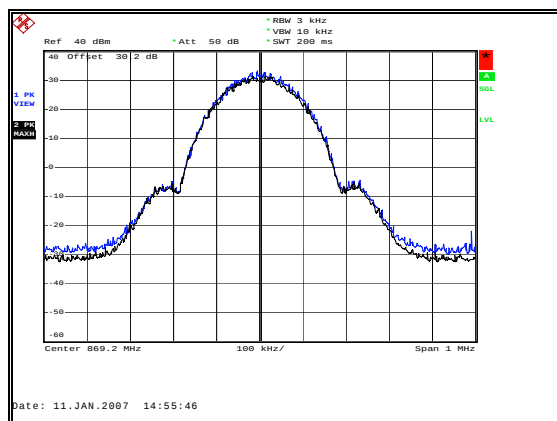


Figure 7: Occupied Bandwidth - Downlink GSM Low Channel

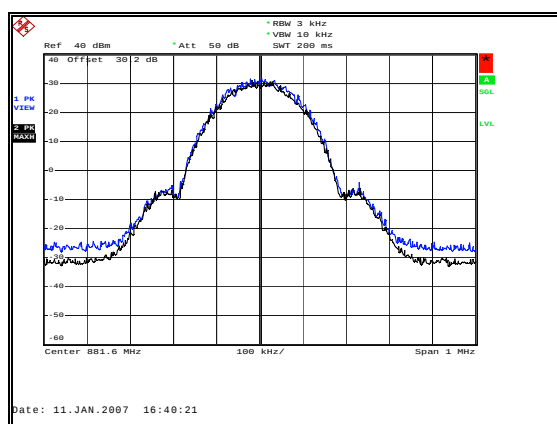


Figure 8: Occupied Bandwidth - Downlink GSM Mid Channel

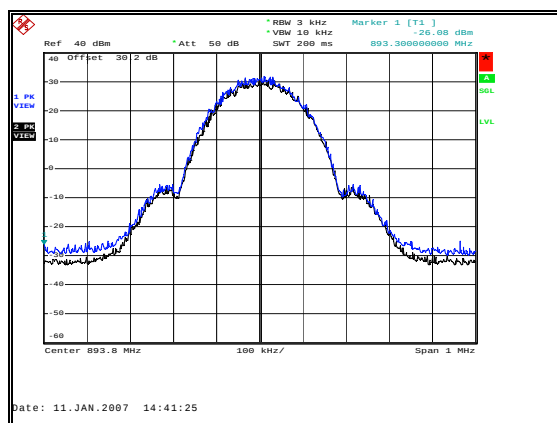


Figure 9: Occupied Bandwidth - Downlink GSM High Channel

2.0 Spurious Emissions at Antenna Terminals and Inter-modulation Products

2.1 CDMA Downlink

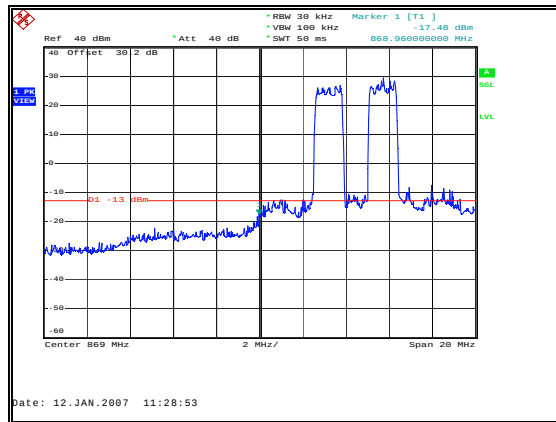


Figure 10: Spurious Emissions - Downlink CDMA Low Channel – Inter-modulation In Band

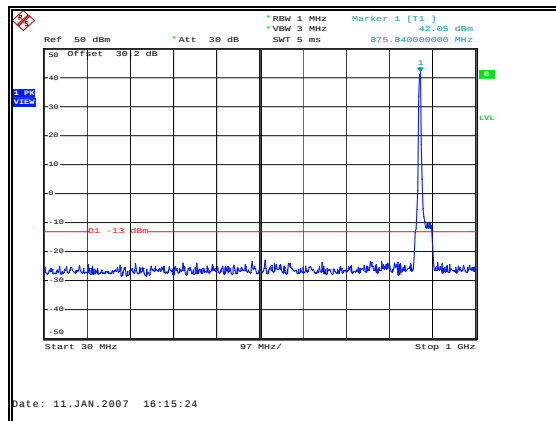


Figure 11: Spurious Emissions - Downlink CDMA Low Channel – Inter-modulation-30MHz to 1GHz

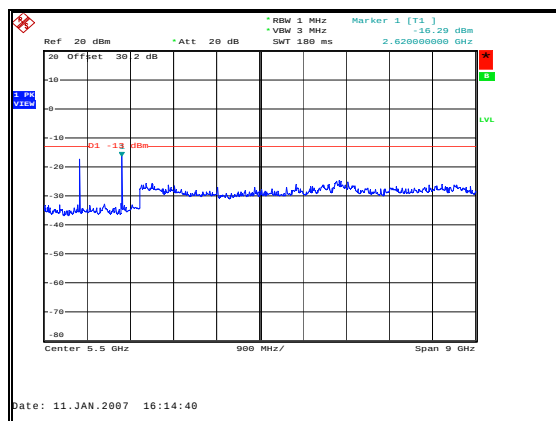


Figure 12: Spurious Emissions - Downlink CDMA Low Channel – Inter-modulation - 1 to 10 GHz

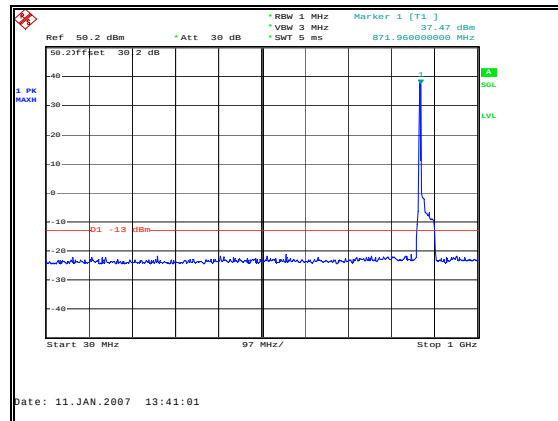


Figure 13: Spurious Emissions - Downlink CDMA Mid Channel – 30 MHz to 1 GHz

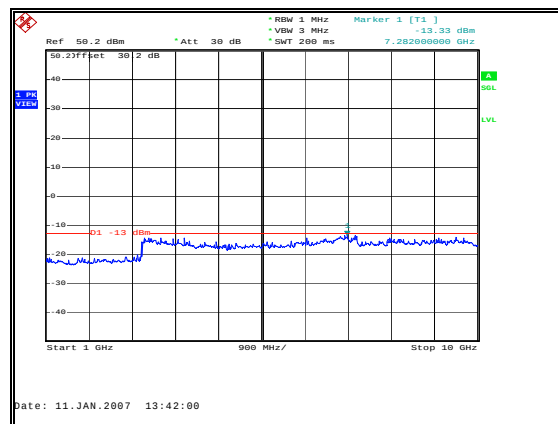


Figure 14: Spurious Emissions - Downlink CDMA Mid Channel – 1 to 10 GHz

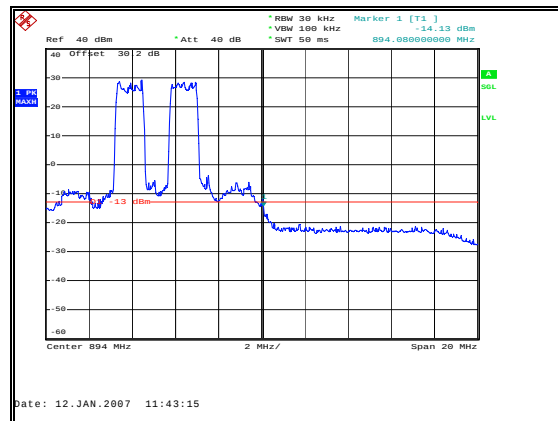


Figure 15: Spurious Emissions - Downlink CDMA High Channel – Inter-modulation In Band

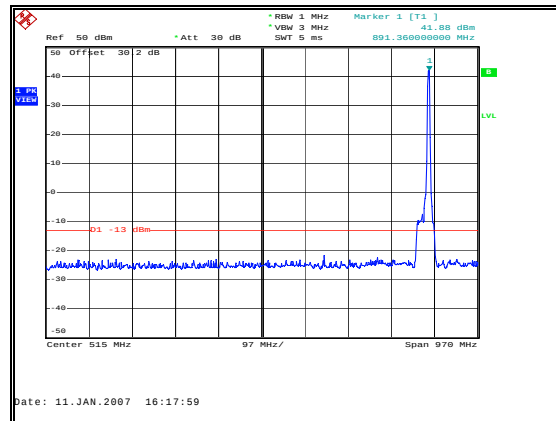


Figure 16: Spurious Emissions - Downlink CDMA High Channel –Inter-modulation-30MHz to 1GHz

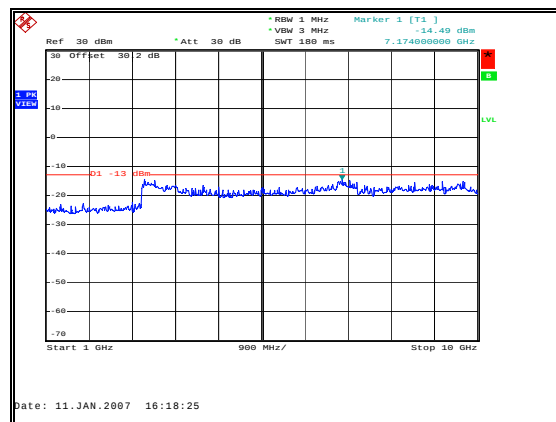


Figure 17: Spurious Emissions - Downlink CDMA High Channel – Inter-modulation - 1 to 10 GHz

2.2 TDMA Downlink

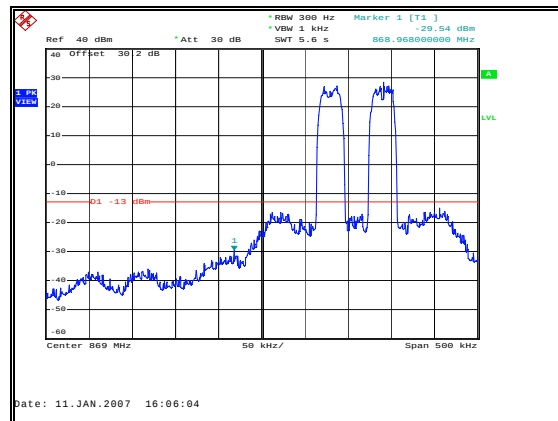


Figure 18: Spurious Emissions - Downlink TDMA Low Channel – Inter-modulation In Band

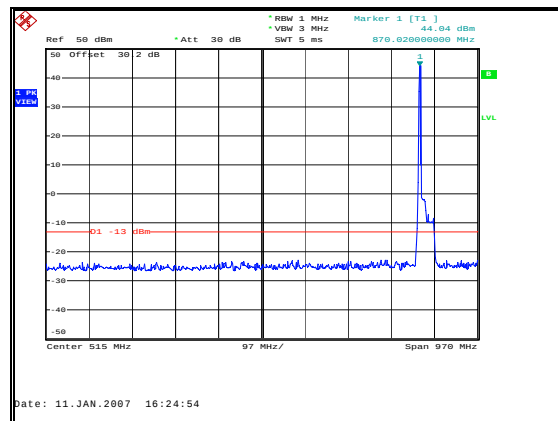


Figure 19: Spurious Emissions - Downlink TDMA Low Channel – Inter-modulation-30MHz to 1GHz

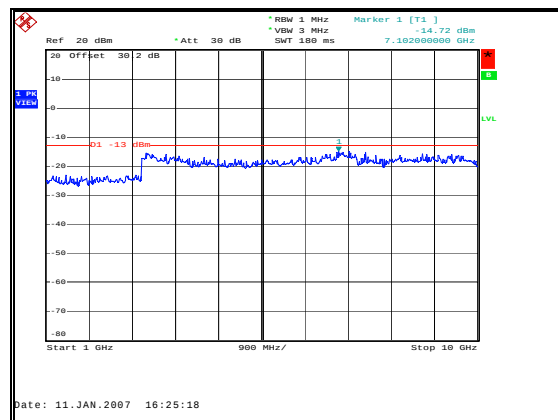


Figure 20: Spurious Emissions - Downlink TDMA Low Channel – Inter-modulation - 1 to 10 GHz

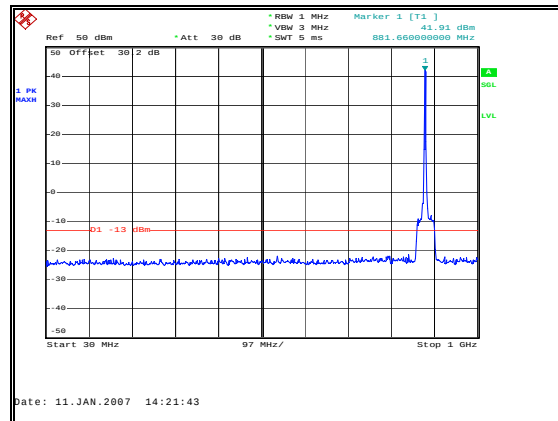


Figure 21: Spurious Emissions - Downlink TDMA Mid Channel – 30 MHz to 1 GHz

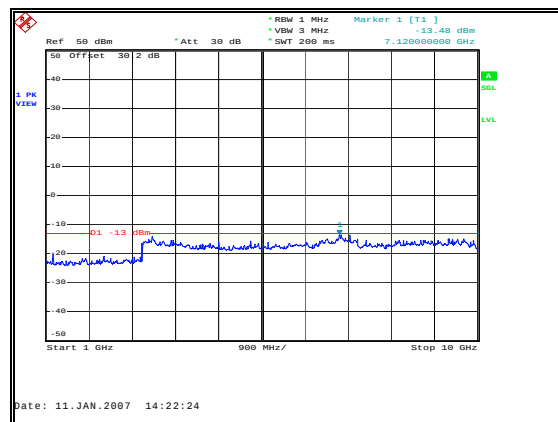


Figure 22: Spurious Emissions - Downlink TDMA Mid Channel – 1 to 10 GHz

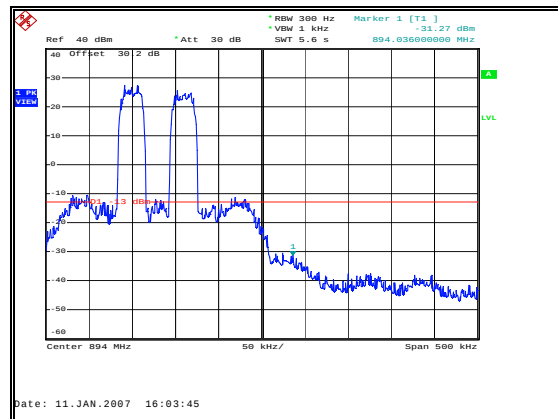


Figure 23: Spurious Emissions - Downlink TDMA High Channel – Inter-modulation In Band

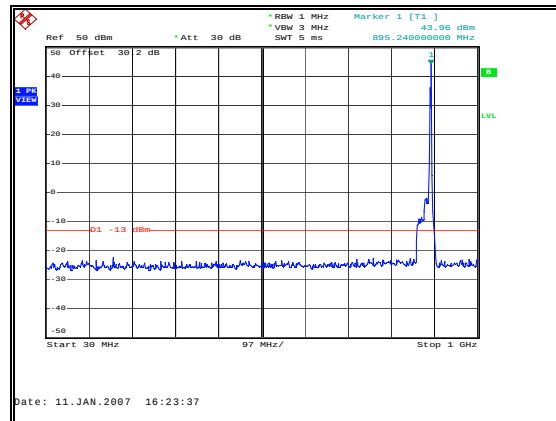


Figure 24: Spurious Emissions - Downlink TDMA High Channel –Inter-modulation-30MHz to 1GHz

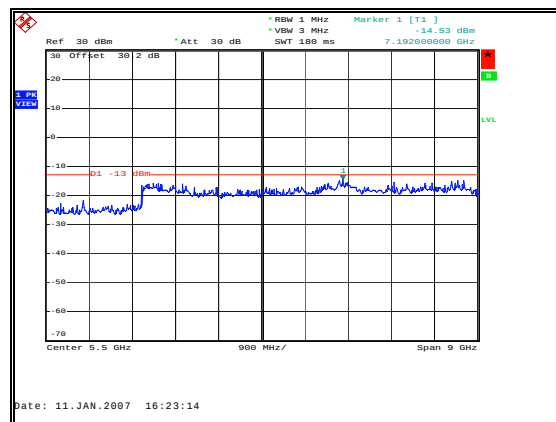


Figure 25: Spurious Emissions - Downlink TDMA High Channel – Inter-modulation - 1 to 10 GHz

2.3 CW Downlink – Covers FM (GSM and F1D)

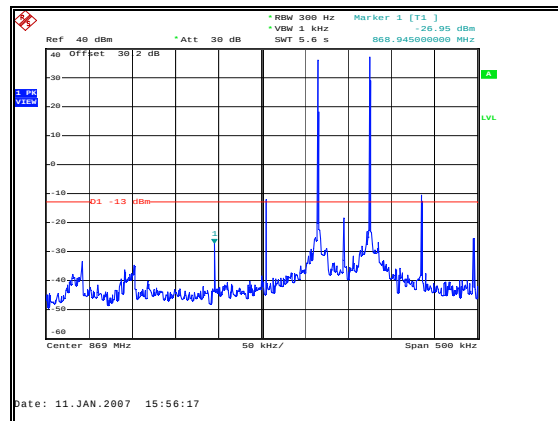


Figure 26: Spurious Emissions - Downlink CW Low Channel – Inter-modulation In Band

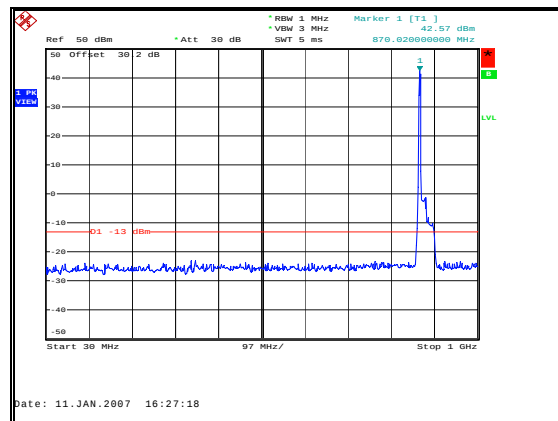


Figure 27: Spurious Emissions - Downlink CW Low Channel – Inter-modulation - 30 MHz to 1 GHz

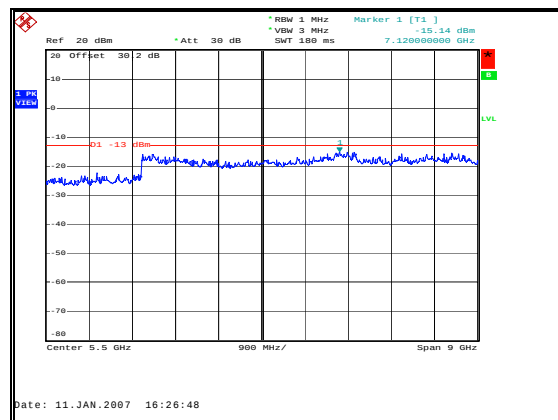


Figure 28: Spurious Emissions - Downlink CW Low Channel – Inter-modulation - 1 to 10 GHz

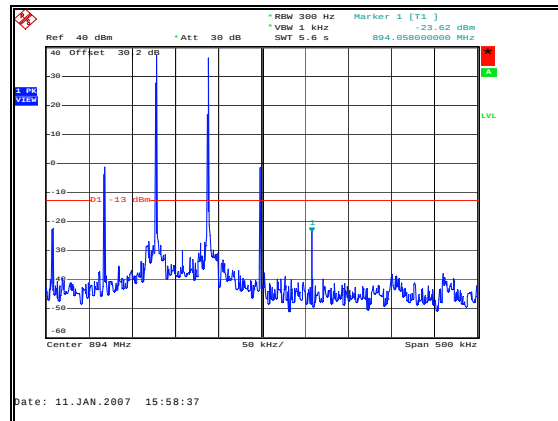


Figure 29: Spurious Emissions - Downlink CW High Channel – Inter-modulation In Band

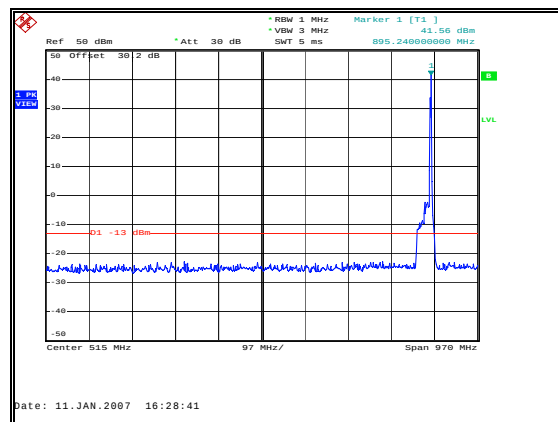


Figure 30: Spurious Emissions - Downlink CW High Channel – Inter-modulation - 30 MHz to 1 GHz

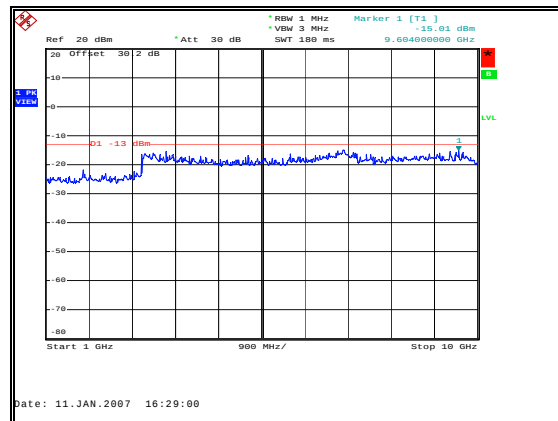


Figure 31: Spurious Emissions - Downlink CW High Channel – Inter-modulation - 1 to 10 GHz

2.4 GSM Downlink

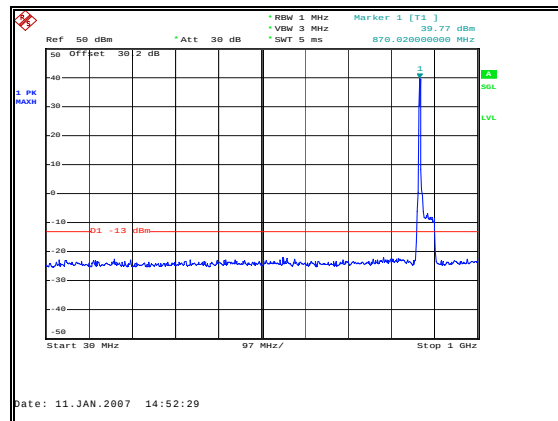


Figure 32: Spurious Emissions - Downlink GSM Low Channel – 30 MHz to 1 GHz

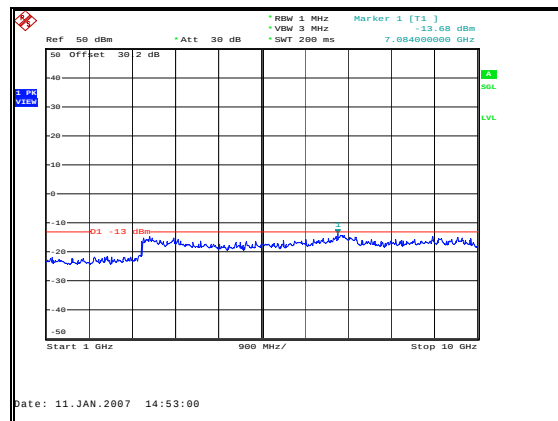


Figure 33: Spurious Emissions - Downlink GSM Low Channel – 1 to 10 GHz

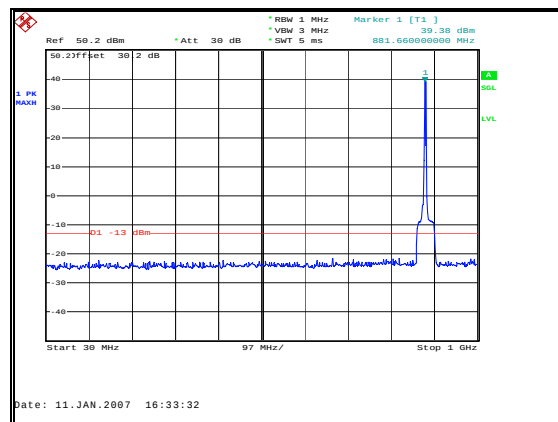


Figure 34: Spurious Emissions - Downlink GSM Mid Channel – 30 MHz to 1 GHz

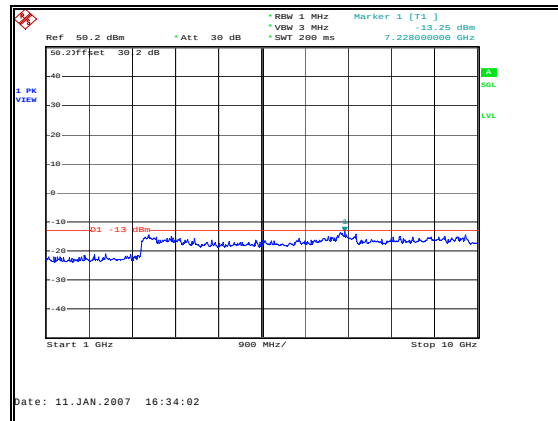


Figure 35: Spurious Emissions - Downlink GSM Mid Channel – 1 to 10 GHz

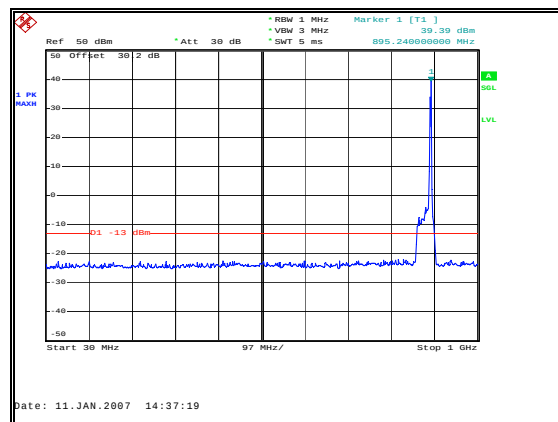


Figure 36: Spurious Emissions - Downlink GSM High Channel – 30 MHz to 1 GHz

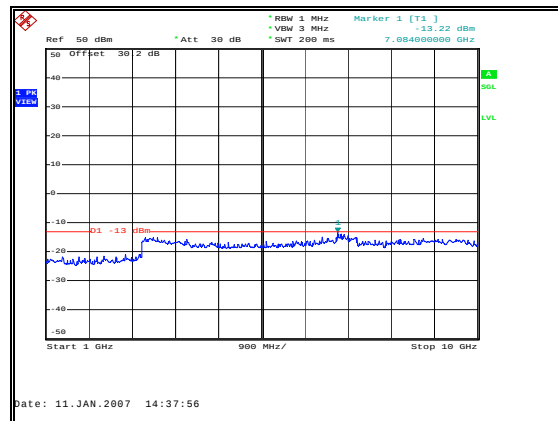


Figure 37: Spurious Emissions - Downlink GSM High Channel – 1 to 10 GHz

3.0 Band-edge

3.1 CDMA Downlink

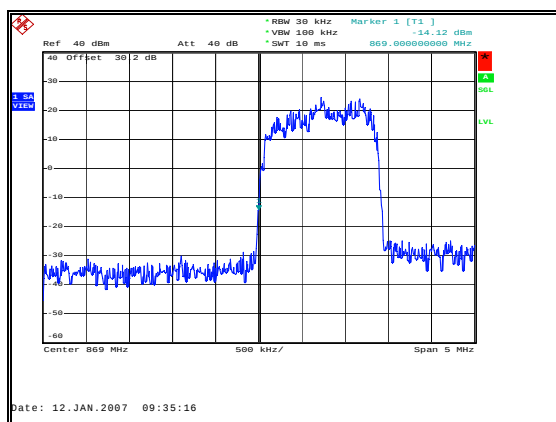


Figure 38: Band-Edge Downlink CDMA Low Channel

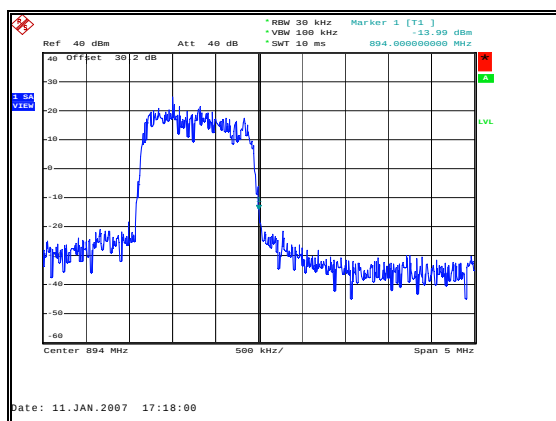


Figure 39: Band-Edge Downlink CDMA High Channel

3.2 TDMA Downlink

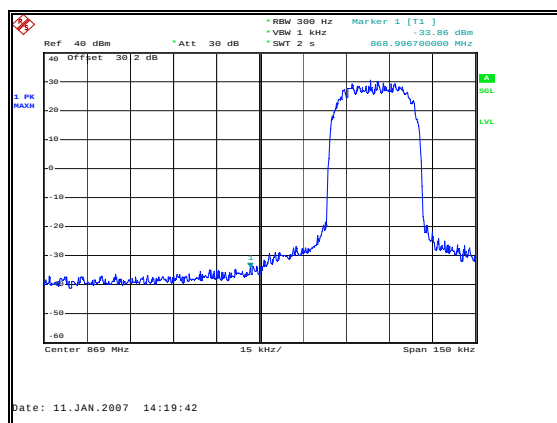


Figure 40: Band-Edge Downlink TDMA Low Channel

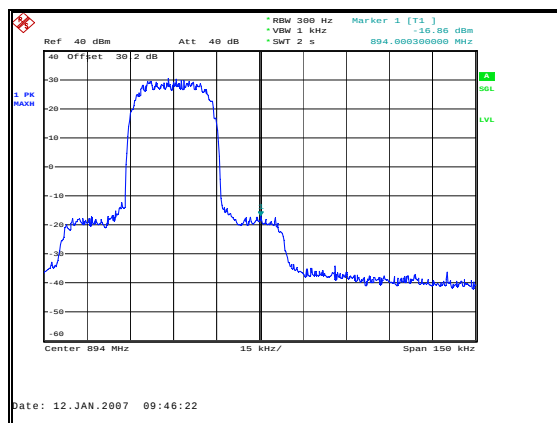


Figure 41: Band-Edge Downlink TDMA High Channel

Ref 40 dBm Att 40 dB *RBW 3 kHz *VBW 10 kHz *SWT 200 ms

Marker 1 [T1] -17.86 dBm 869.988000000 MHz

Center 869 MHz 100 kHz/ Span 1 MHz

A

LVL

Date: 12.JAN.2007 10:12:27

Ref 40 dBm Att 40 dB * RBW 3 kHz Marker 1 [T1.]
 * VBW 1.0 kHz -37.42 dBm
 * SWT 500 ms 894.012000000 MHz

40 OFF Set 30 2 dB

SA VIEW

Center 894 MHz 100 kHz/ Span 1 MHz

Date: 12. JAN. 2007 10:09:21

END REPORT