

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.


Prepared by: _____
J. Kirby Munroe
Manager Wireless Certifications
ACS, Inc.


Reviewed by: _____
R. Sam Wismer
Engineering Manager
ACS, Inc.

This test report shall not be reproduced except in full. This report may be reproduced in part with prior written consent of ACS, Inc. The results contained in this report are representative of the sample(s) submitted for evaluation.

This report contains 20 pages

Table of Contents

1.0 Spurious Emissions at Antenna Terminals and Inter-modulation Products	
1.1 CDMA Uplink	3
1.2 TDMA Uplink	6
1.3 CW Uplink	9
1.4 GSM Uplink	10
1.5 CDMA Downlink	12
1.6 TDMA Downlink	14
1.7 CDMA Downlink	16
1.8 CDMA Modem	18

1.0 Spurious Emissions at Antenna Terminals and Inter-modulation Products

1.1 CDMA Uplink

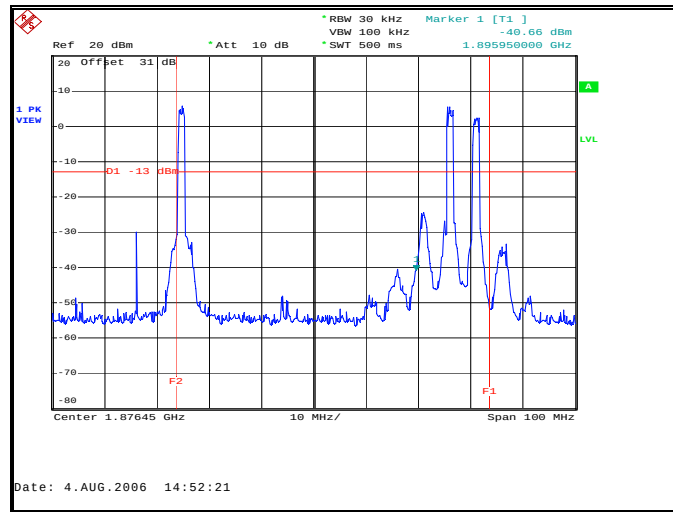


Figure 1: Spurious Emissions - Uplink CDMA Inter-modulation Products – In Band

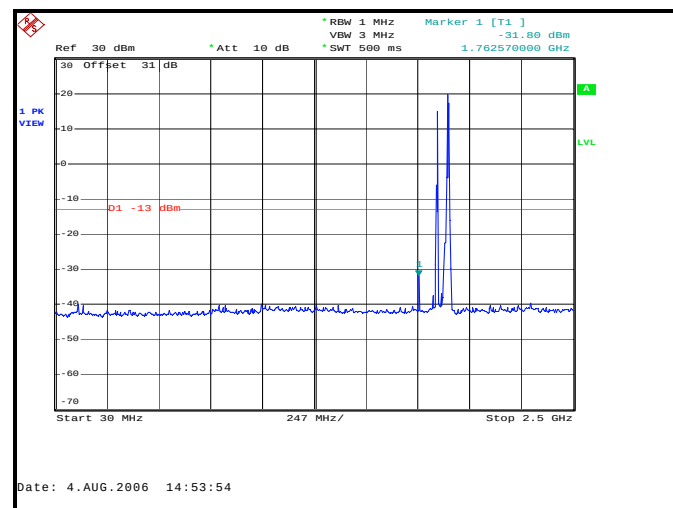


Figure 2: Spurious Emissions - Uplink CDMA Inter-modulation Products – 30 MHz to 2.5 GHz

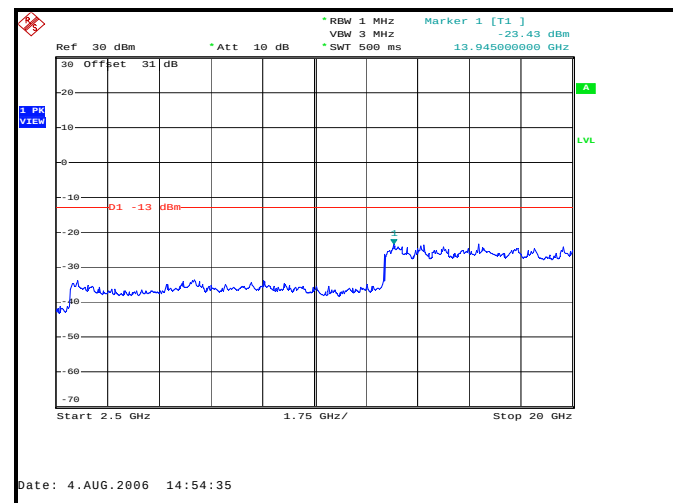


Figure 3: Spurious Emissions - Uplink CDMA Inter-modulation Products – 2.5 to 20 GHz

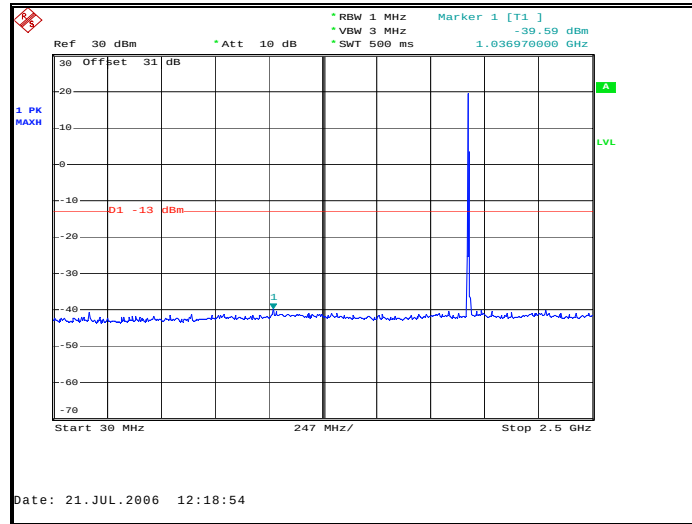


Figure 4: Spurious Emissions - Uplink CDMA Low Channel – 30 MHz to 2.5 GHz

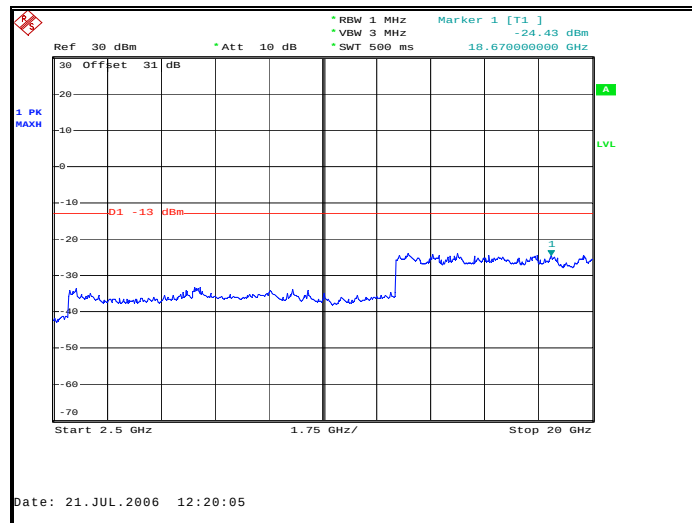


Figure 5: Spurious Emissions - Uplink CDMA Low Channel – 2.5 to 20 GHz

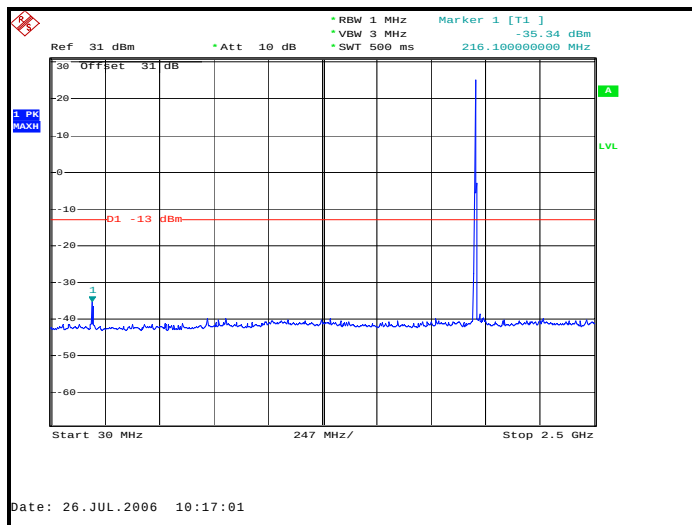


Figure 6: Spurious Emissions - Uplink CDMA Mid Channel – 30 MHz to 2.5 GHz

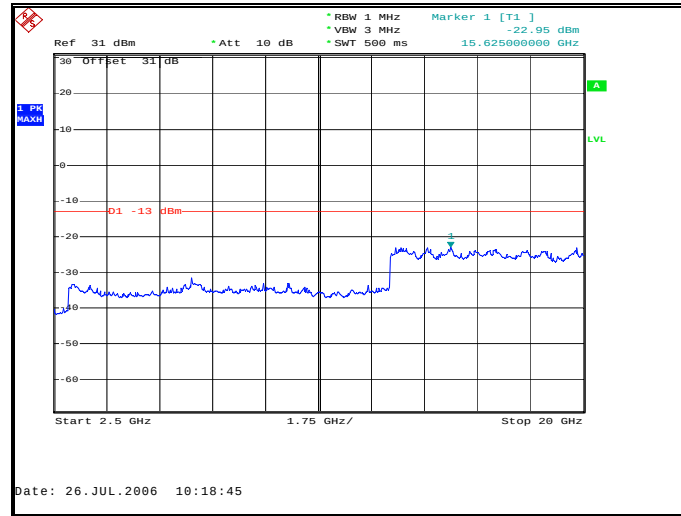


Figure 7: Spurious Emissions - Uplink CDMA Mid Channel – 2.5 to 20 GHz

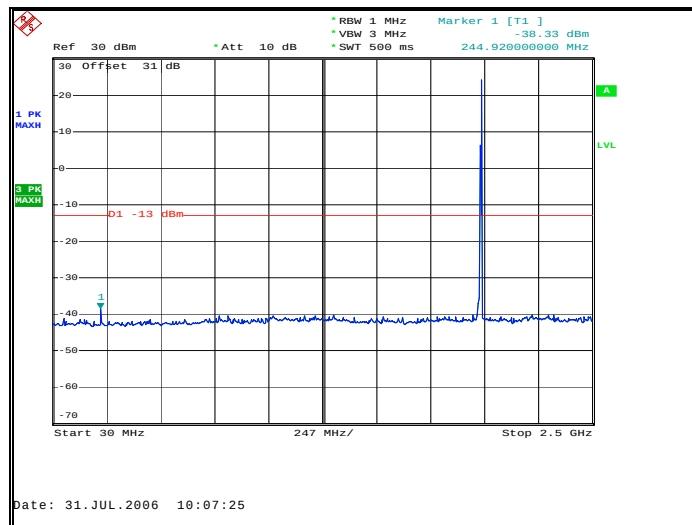


Figure 8: Spurious Emissions - Uplink CDMA High Channel – 30 MHz to 2.5 GHz

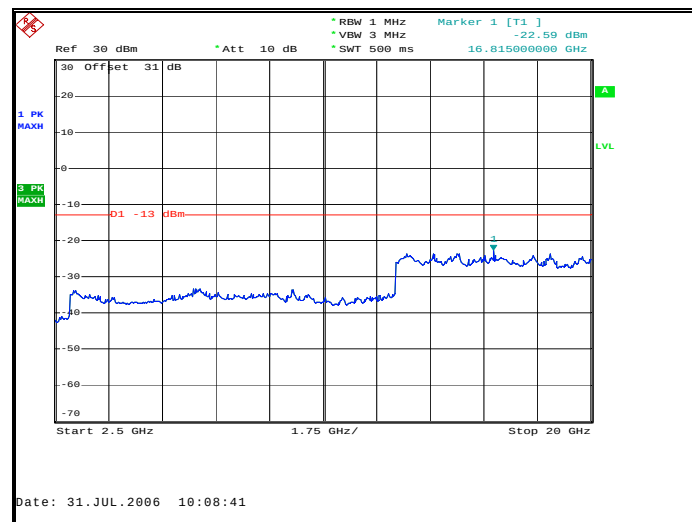


Figure 9: Spurious Emissions - Uplink CDMA High Channel – 2.5 to 20 GHz

1.2 TDMA Uplink

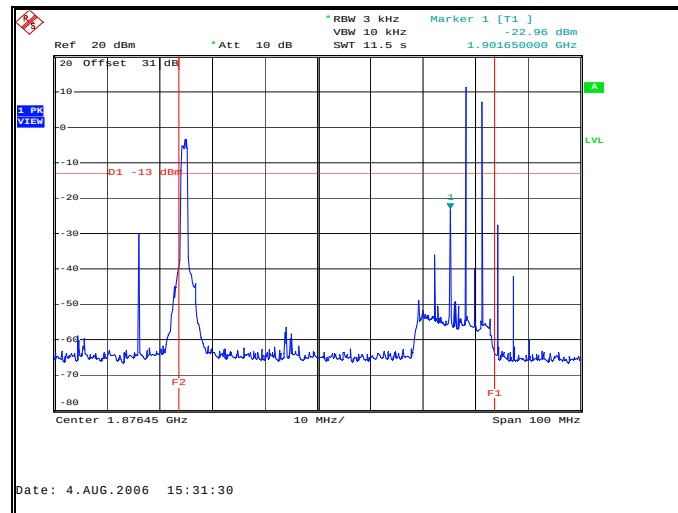


Figure 10: Spurious Emissions - Uplink TDMA Inter-modulation Products – In Band

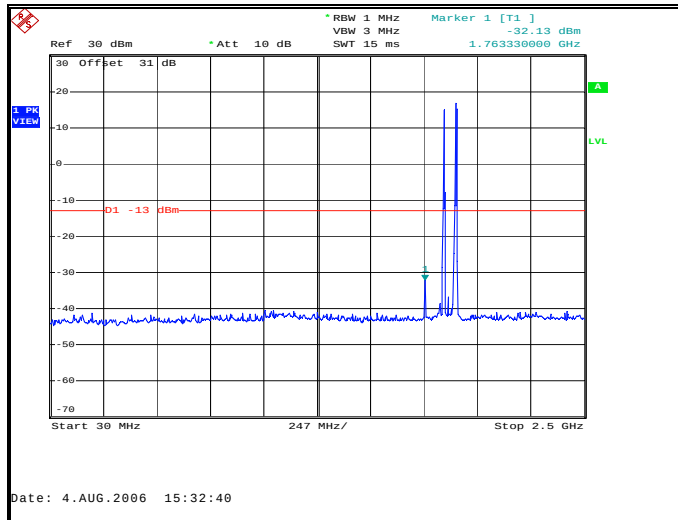


Figure 11: Spurious Emissions - Uplink TDMA Inter-modulation Products – 30 MHz to 2.5 GHz

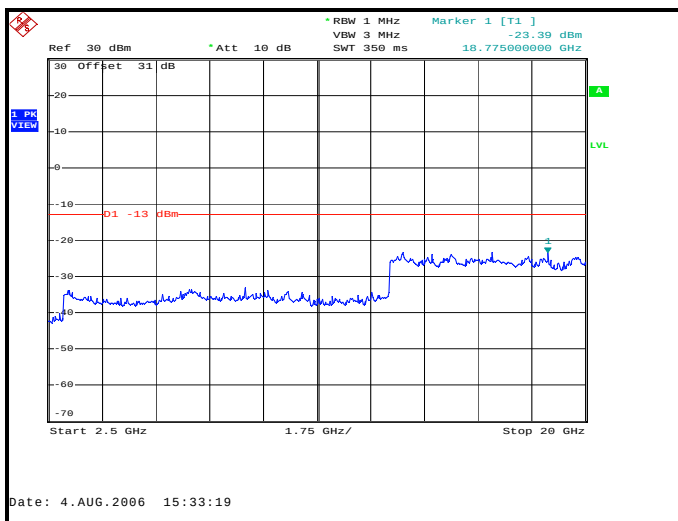


Figure 12: Spurious Emissions - Uplink TDMA Inter-modulation Products – 2.5 to 20 GHz

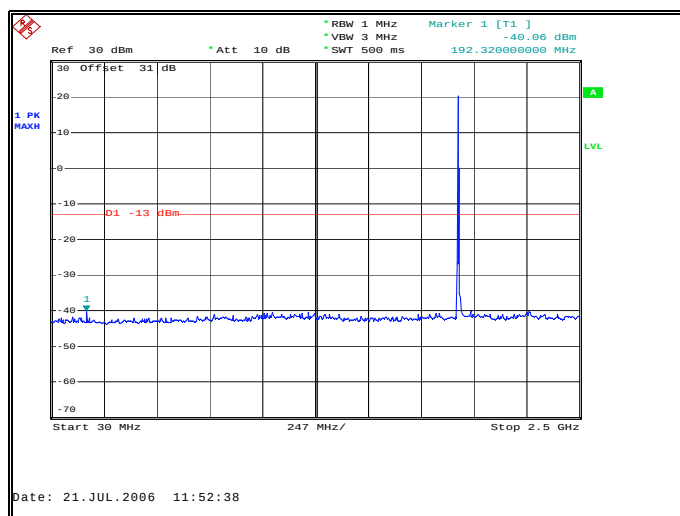


Figure 13: Spurious Emissions - Uplink TDMA Low Channel – 30 MHz to 2.5 GHz

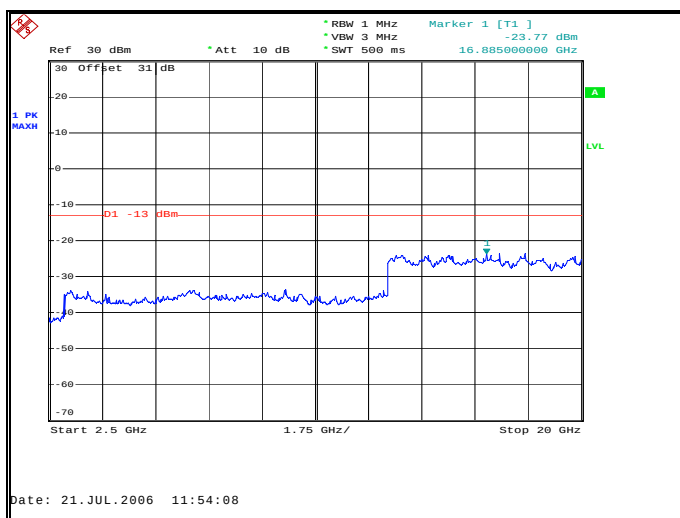


Figure 14: Spurious Emissions - Uplink TDMA Low Channel – 2.5 to 20 GHz

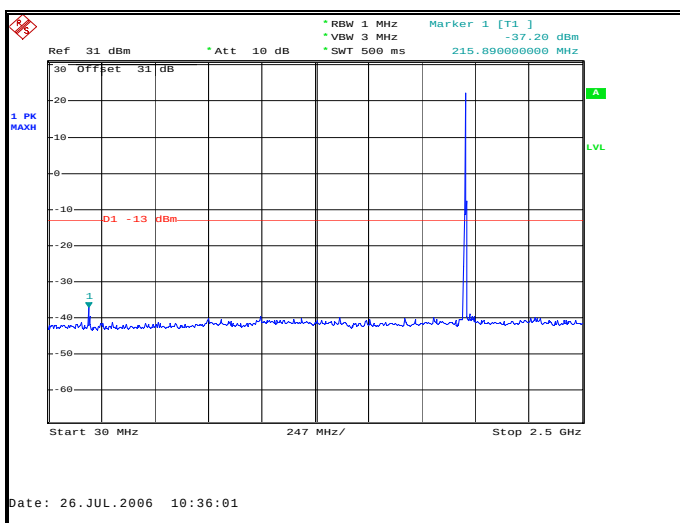
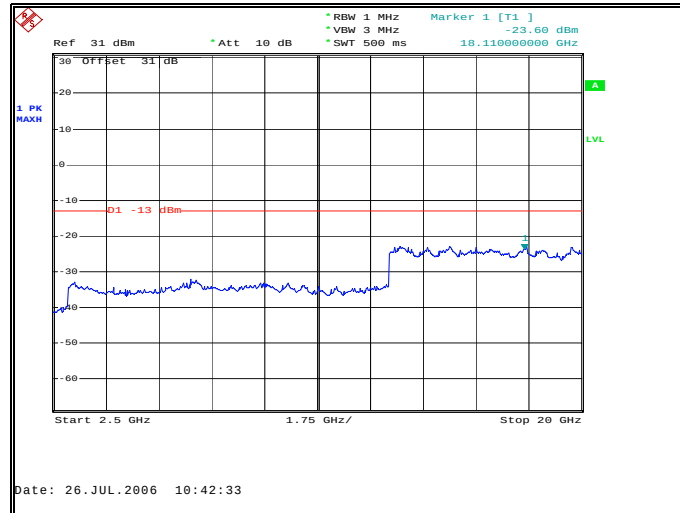
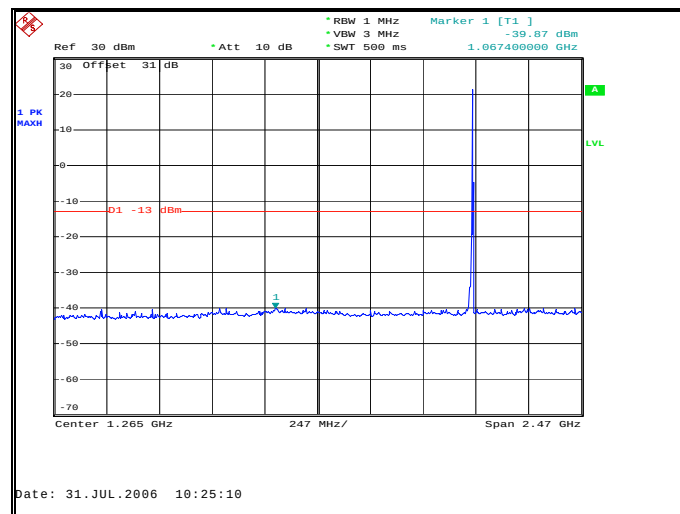
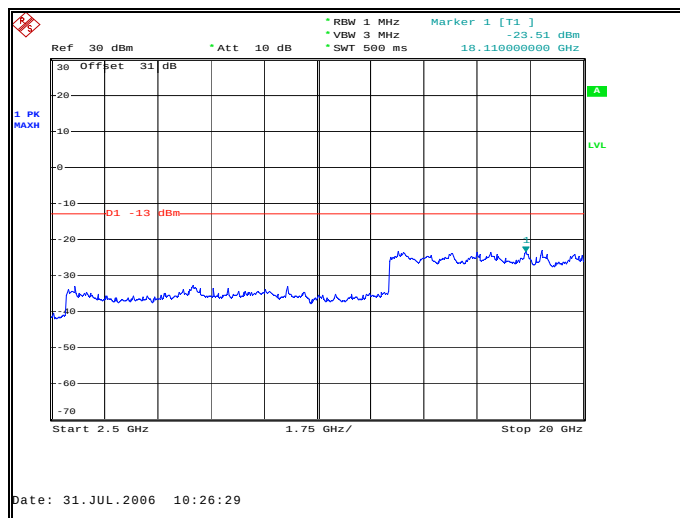


Figure 15: Spurious Emissions - Uplink TDMA Mid Channel – 30 MHz to 2.5 GHz

**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)

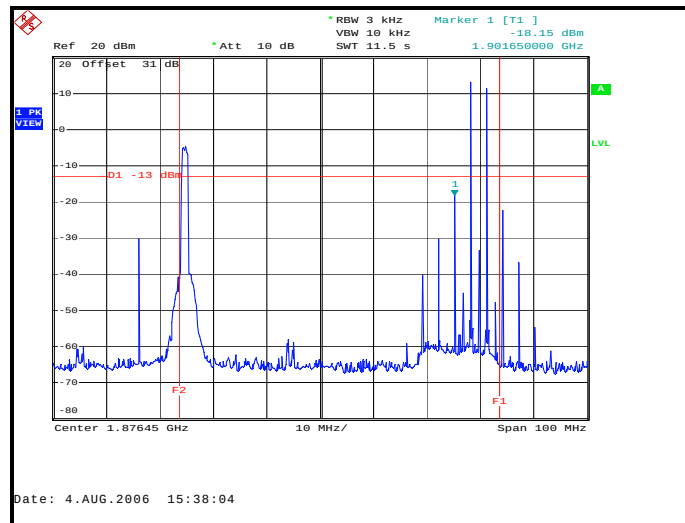


Figure 19: Spurious Emissions - Uplink CW – In Band

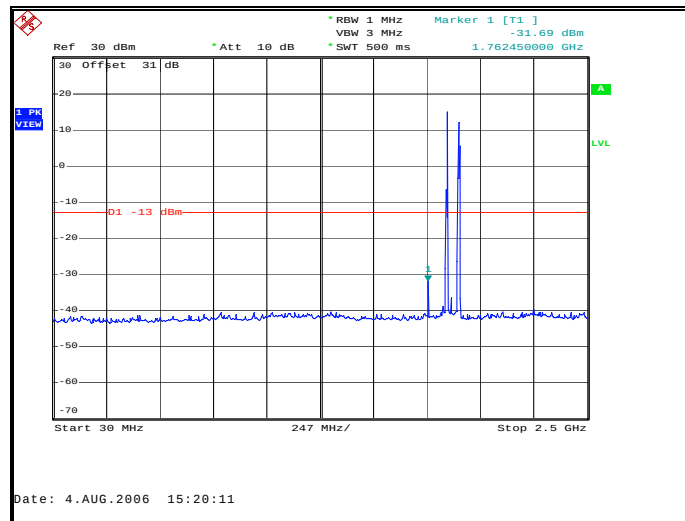


Figure 20: Spurious Emissions - Uplink CW – 30 MHz to 2.5 GHz

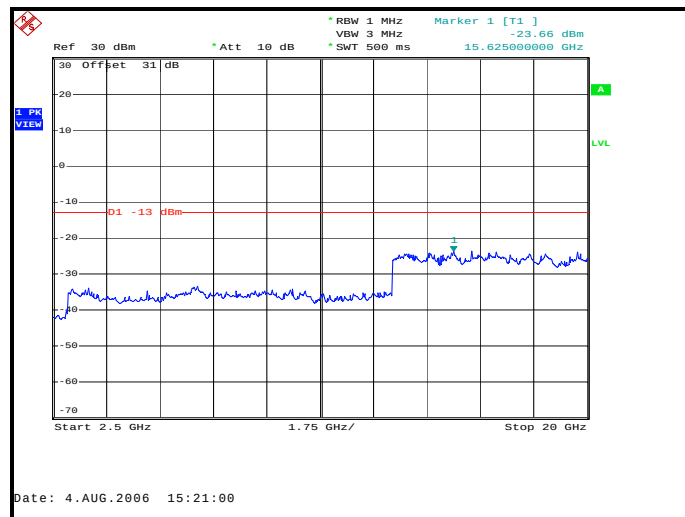


Figure 21: Spurious Emissions - Uplink CW – 2.5 to 20 GHz

1.4 GSM Uplink

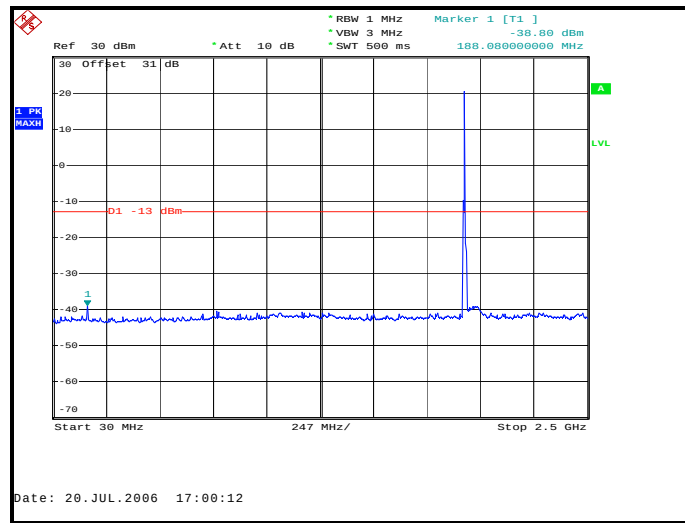


Figure 22: Spurious Emissions - Uplink GSM Low Channel – 30 MHz to 2.5 GHz

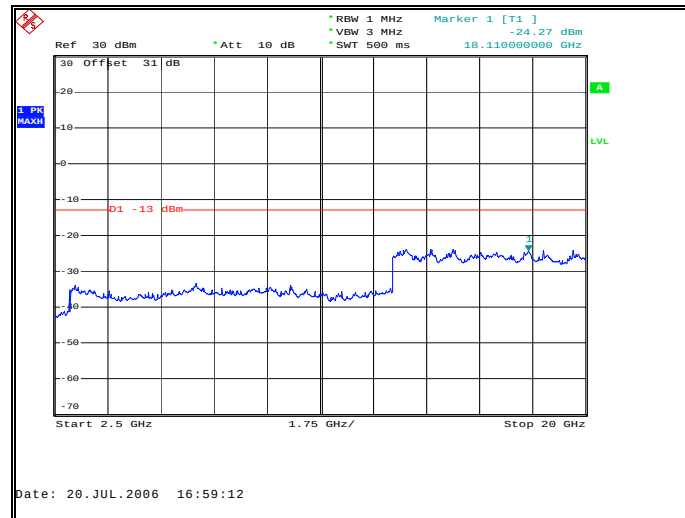


Figure 23: Spurious Emissions - Uplink GSM Low Channel – 2.5 to 20 GHz

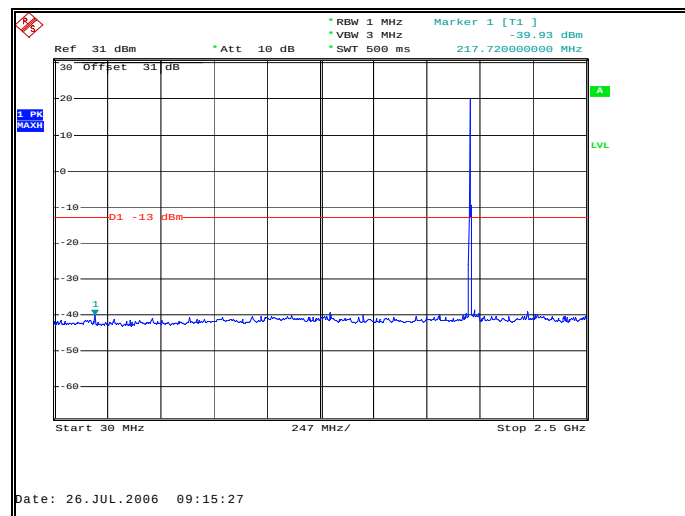


Figure 24: Spurious Emissions - Uplink GSM Mid Channel – 30 MHz to 2.5 GHz

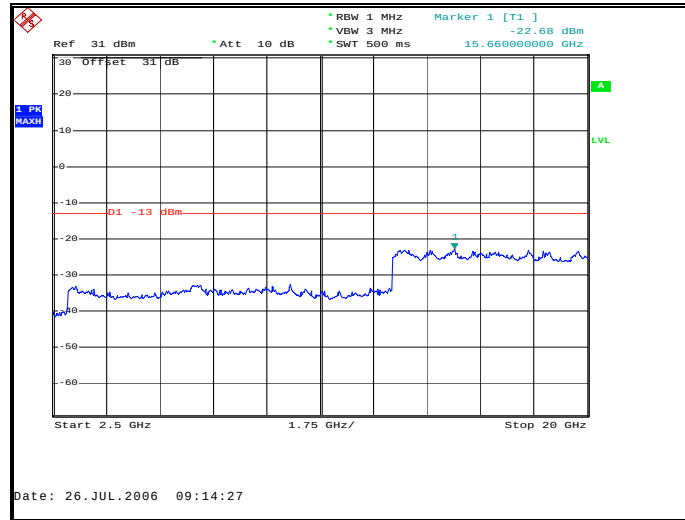


Figure 25: Spurious Emissions - Uplink GSM Mid Channel – 2.5 to 20 GHz

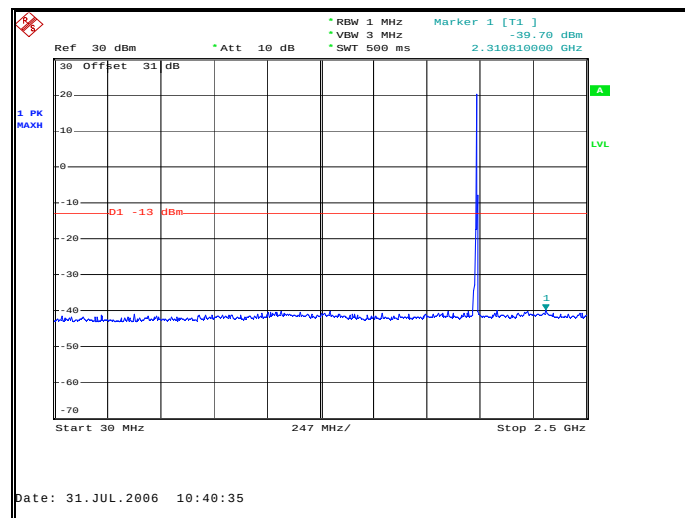


Figure 26: Spurious Emissions - Uplink GSM High Channel – 30 MHz to 2.5 GHz

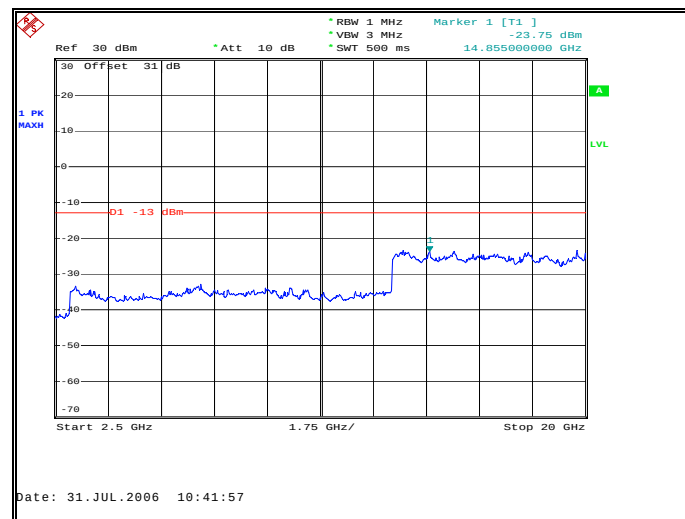


Figure 27: Spurious Emissions - Uplink GSM High Channel – 2.5 to 20 GHz

1.5 CDMA Downlink

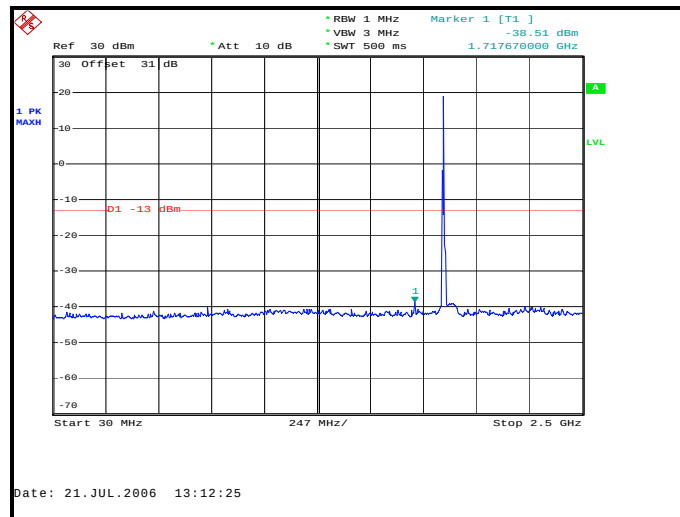


Figure 28: Spurious Emissions - Downlink CDMA Low Channel – 30 MHz to 2.5 GHz

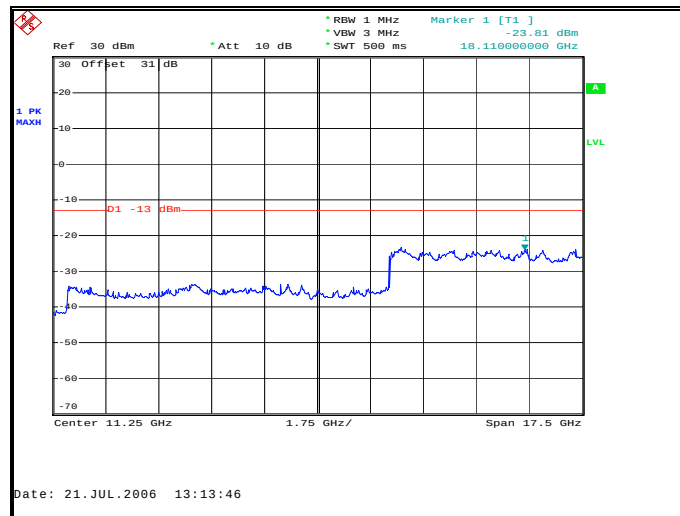


Figure 29: Spurious Emissions - Downlink CDMA Low Channel – 2.5 to 20 GHz

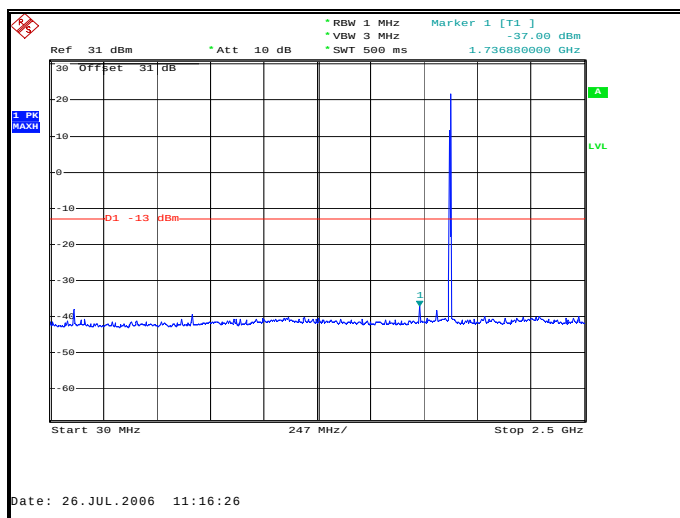


Figure 30: Spurious Emissions - Downlink CDMA Mid Channel – 30 MHz to 2.5 GHz

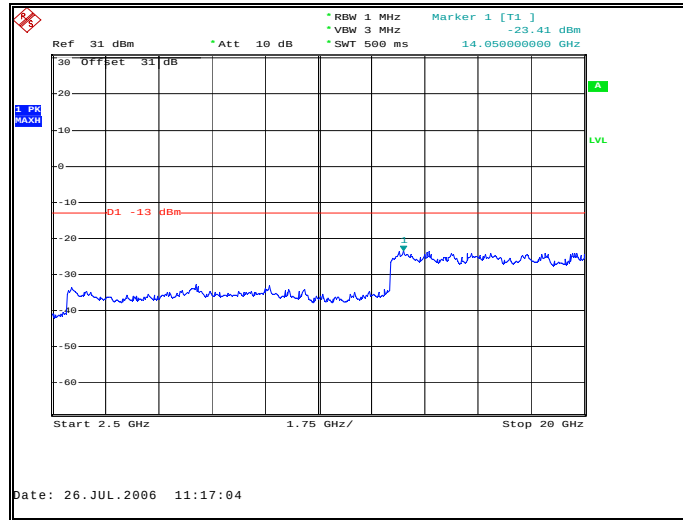


Figure 31: Spurious Emissions - Downlink CDMA Mid Channel – 2.5 to 20 GHz

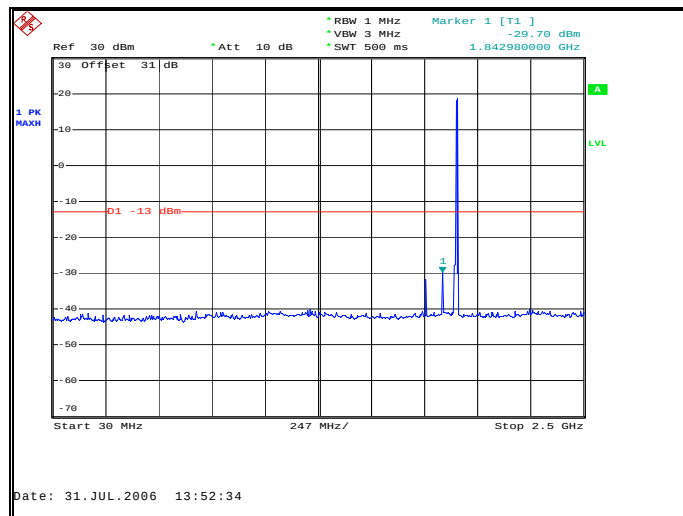


Figure 32: Spurious Emissions - Downlink CDMA High Channel – 30 MHz to 2.5 GHz

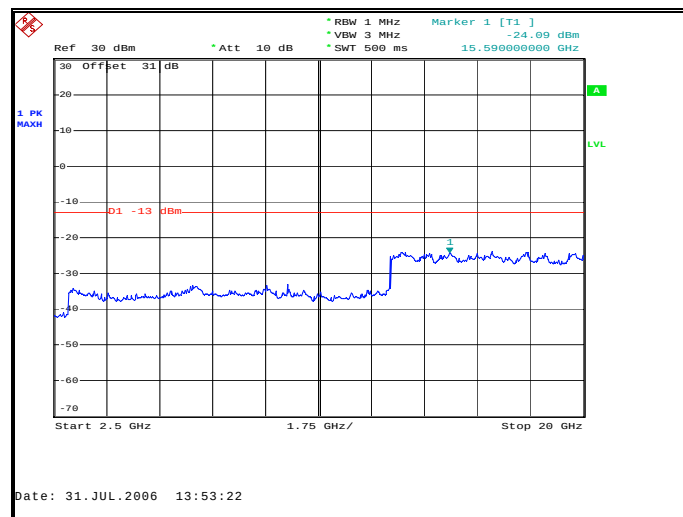


Figure 33: Spurious Emissions - Downlink CDMA High Channel – 2.5 to 20 GHz

1.6 TDMA Downlink

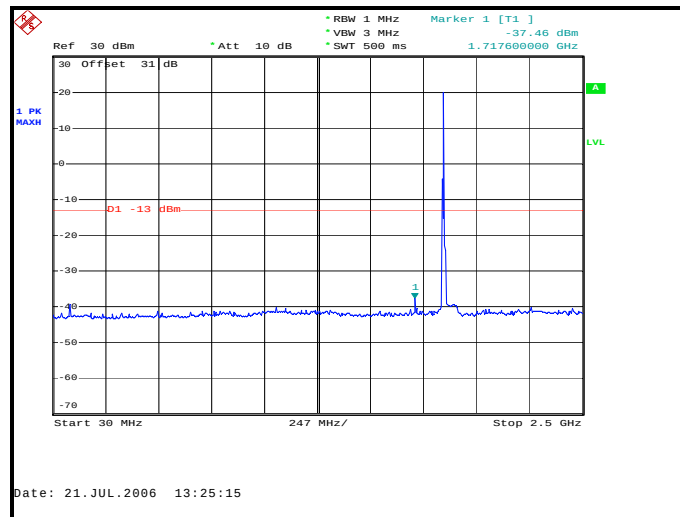


Figure 34: Spurious Emissions - Downlink TDMA Low Channel – 30 MHz to 2.5 GHz

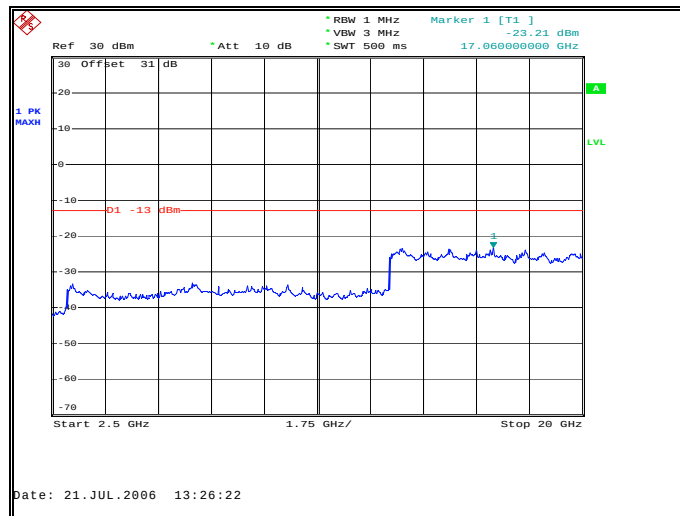


Figure 35: Spurious Emissions - Downlink TDMA Low Channel – 2.5 to 20 GHz

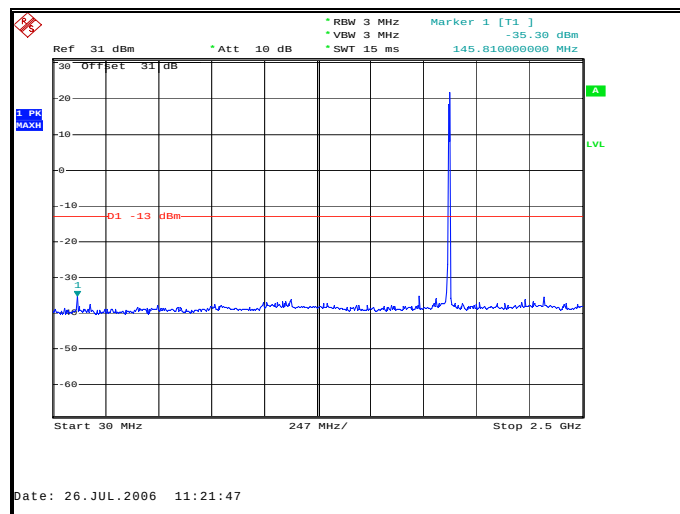


Figure 36: Spurious Emissions - Downlink TDMA Mid Channel – 30 MHz to 2.5 GHz

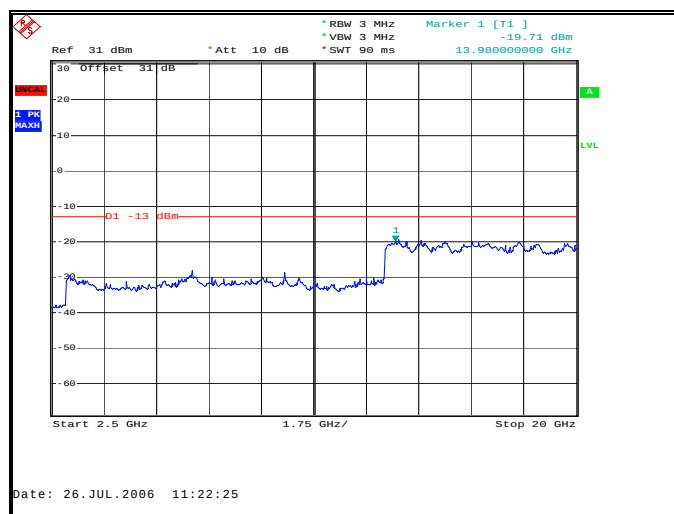


Figure 37: Spurious Emissions - Downlink TDMA Mid Channel – 2.5 to 20 GHz

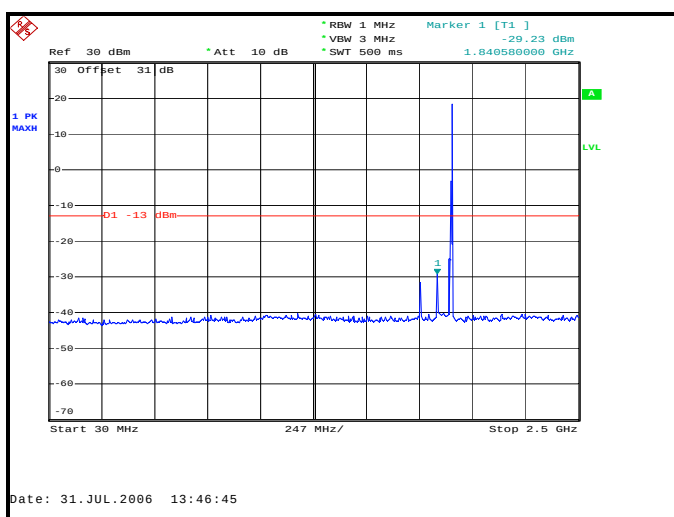


Figure 38: Spurious Emissions - Downlink TDMA High Channel – 30 MHz to 2.5 GHz

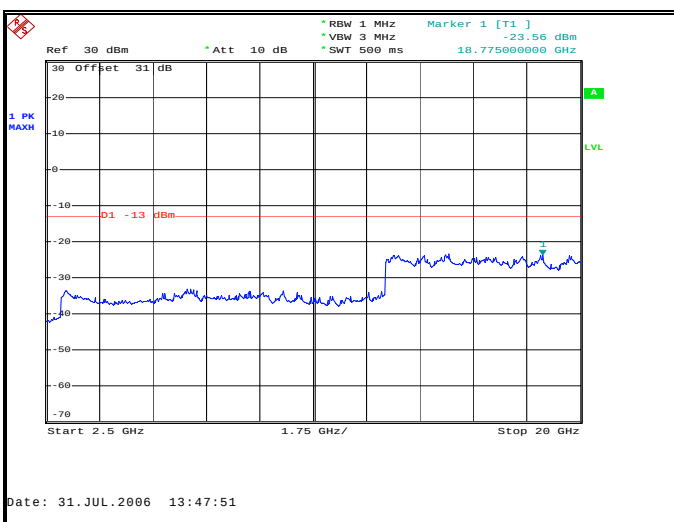


Figure 39: Spurious Emissions - Downlink TDMA High Channel – 2.5 to 20 GHz

1.7 GSM Downlink

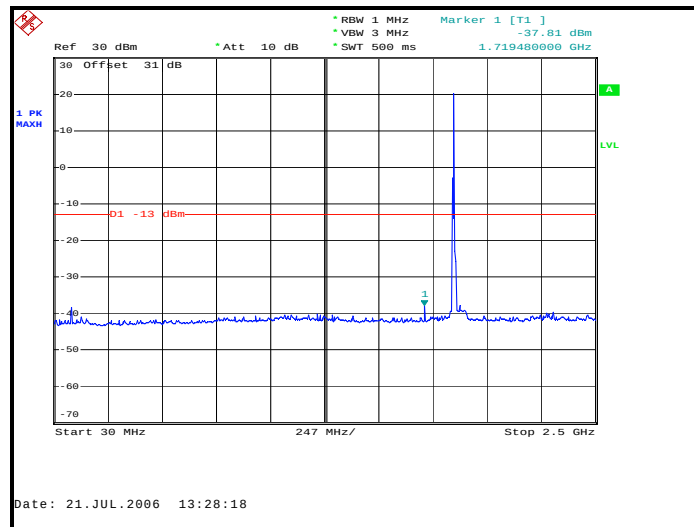


Figure 40: Spurious Emissions - Downlink GSM Low Channel – 30 MHz to 2.5 GHz

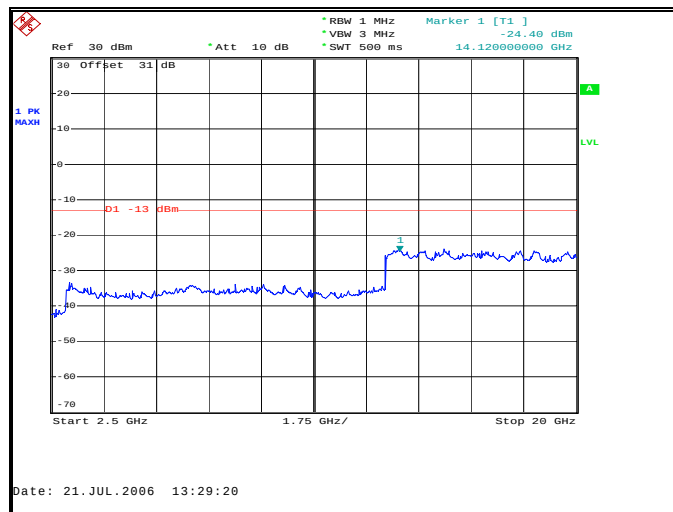


Figure 41: Spurious Emissions - Downlink GSM Low Channel – 2.5 to 20 GHz

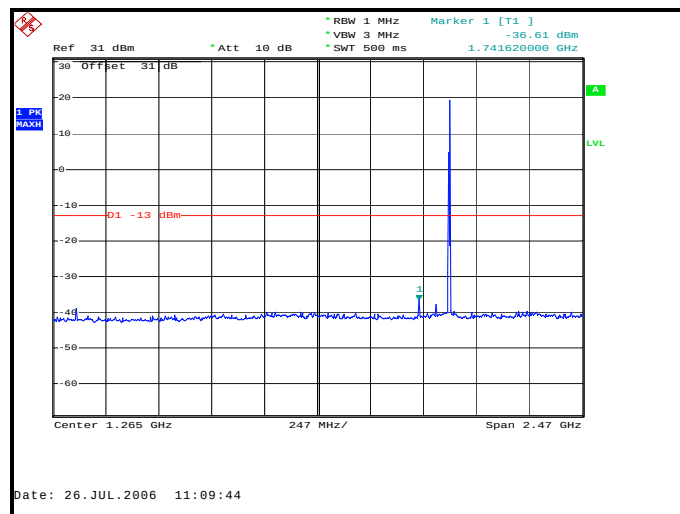


Figure 42: Spurious Emissions - Downlink GSM Mid Channel – 30 MHz to 2.5 GHz

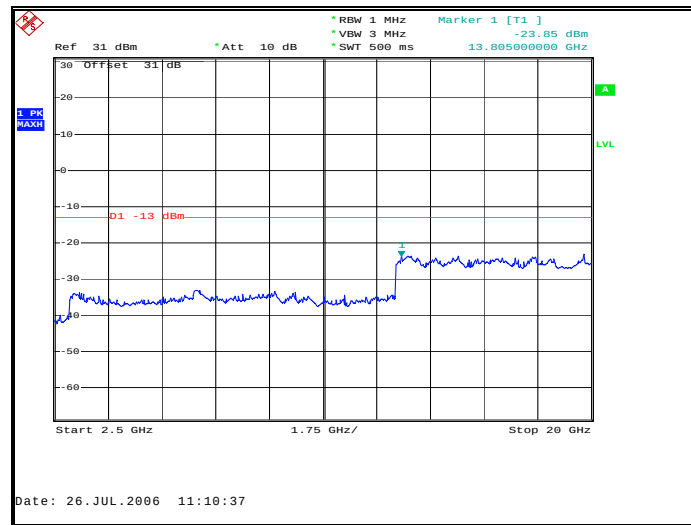


Figure 43: Spurious Emissions - Downlink GSM Mid Channel – 2.5 to 20 GHz

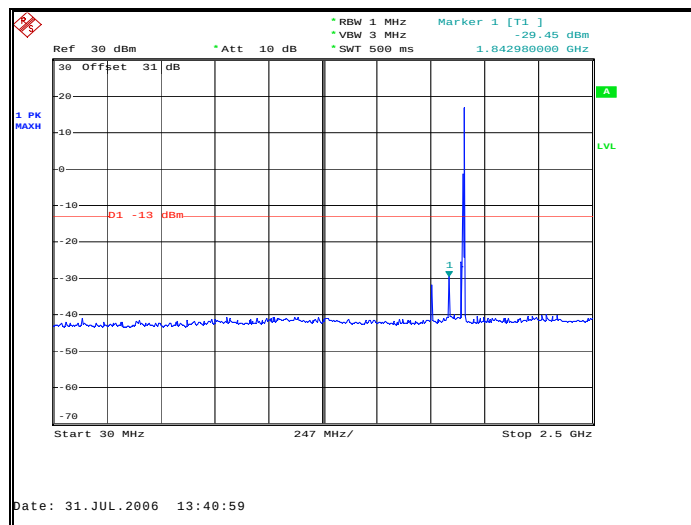


Figure 44: Spurious Emissions - Downlink GSM High Channel – 30 MHz to 2.5 GHz

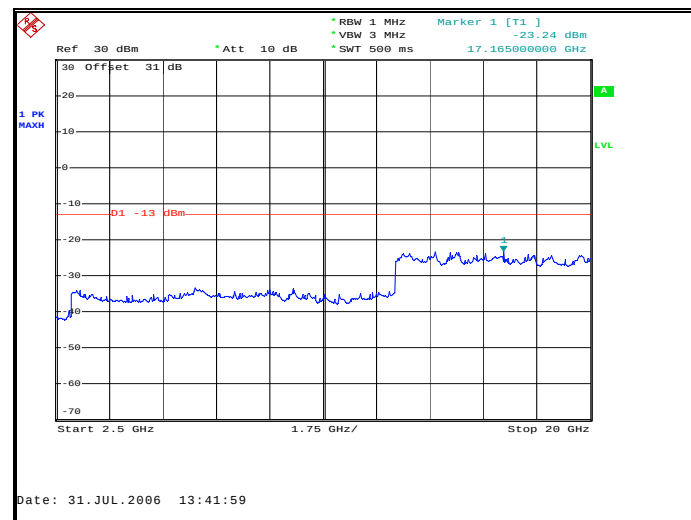


Figure 45: Spurious Emissions - Downlink GSM High Channel – 2.5 to 20 GHz

1.8 CDMA Modem

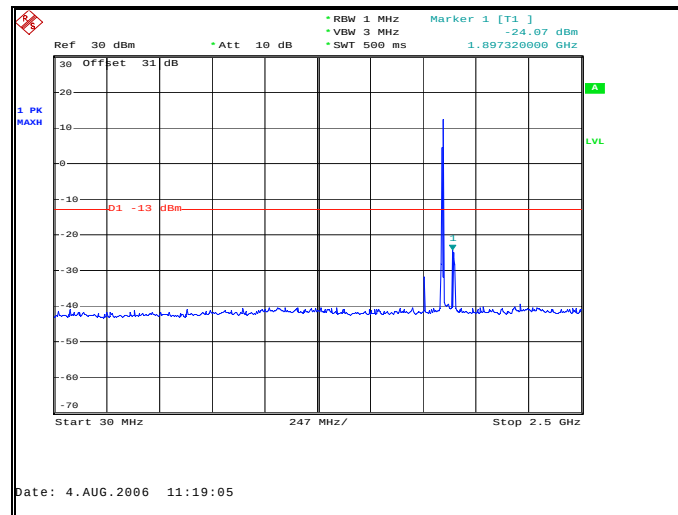


Figure 46: Spurious Emissions - CDMA Modem Low Channel – 30 MHz to 2.5 GHz

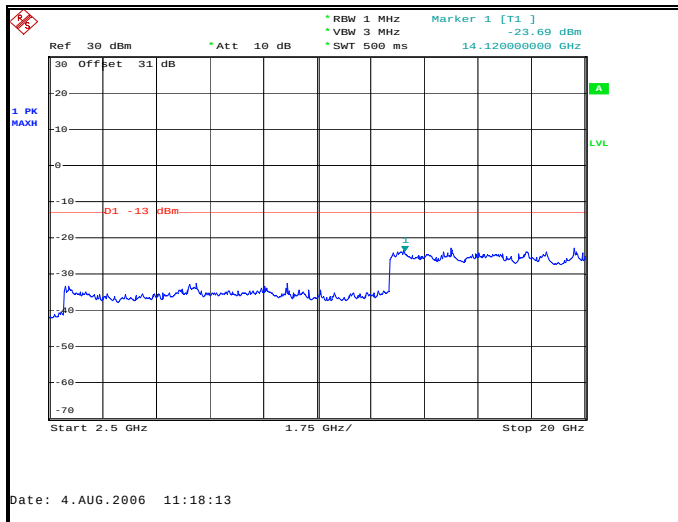


Figure 47: Spurious Emissions - CDMA Modem Low Channel – 2.5 to 20 GHz

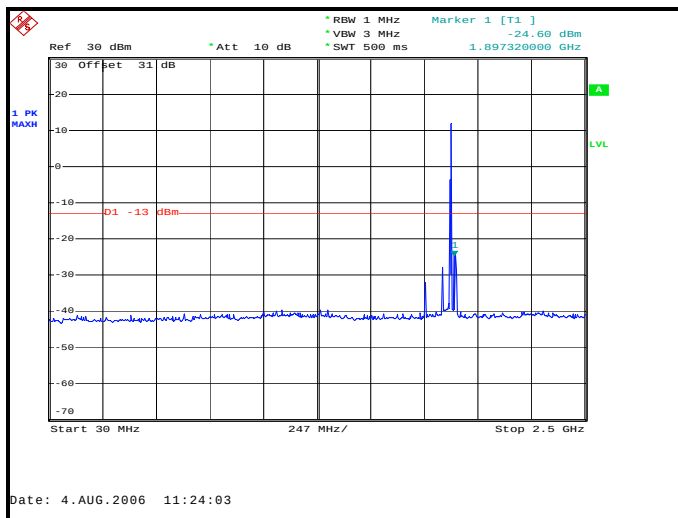


Figure 48: Spurious Emissions - CDMA Modem Mid Channel – 30 MHz to 2.5 GHz

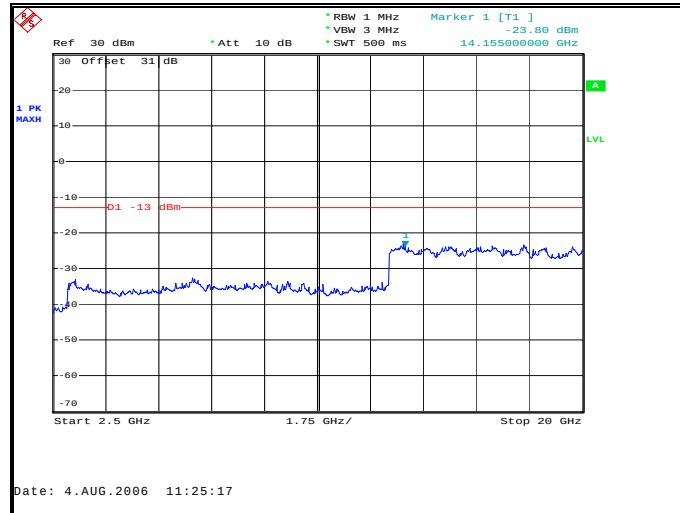


Figure 49: Spurious Emissions - CDMA Modem Mid Channel – 2.5 to 20 GHz

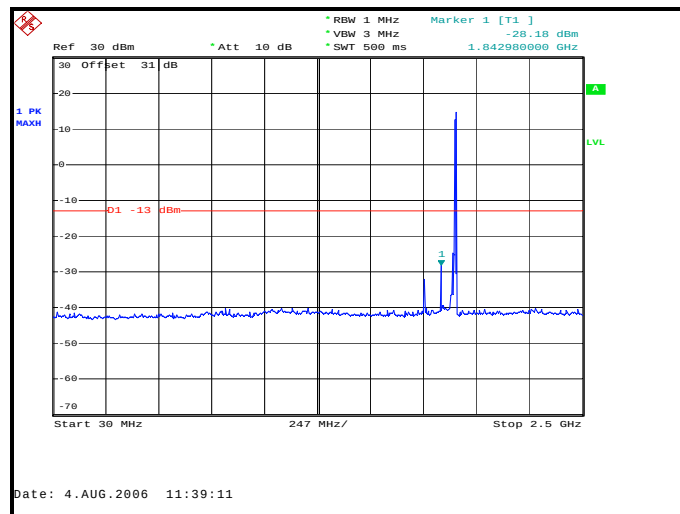


Figure 50: Spurious Emissions - CDMA Modem High Channel – 30 MHz to 2.5 GHz

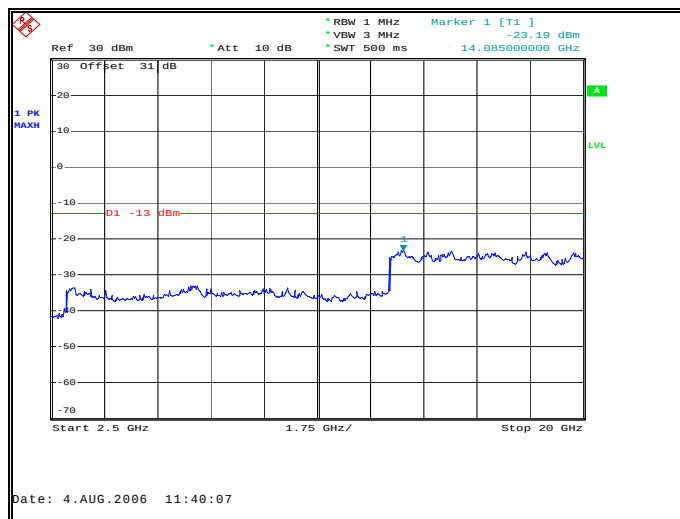


Figure 51: Spurious Emissions - CDMA Modem High Channel – 2.5 to 20 GHz

END REPORT