

FCC Part 24 Transmitter Certification

Test Report Appendix

FCC ID: DNY0B2SCCELL1900

FCC Rule Part: CFR 47 Part 24 Subpart E

ACS Report Number: 05-0272-24E-A

Manufacturer: EMS Wireless
Equipment Type: PCS Band Bi-Directional Amplifier
Model: SelectaCell-19-S

Test Begin Date: August 03, 2005

Test End Date: August 24, 2005

Report Issue Date: September 2, 2005



FOR THE SCOPE OF ACCREDITATION UNDER LAB Code 200612


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This report contains 38 pages

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1.0 RF Power Output

1.1 CDMA Uplink

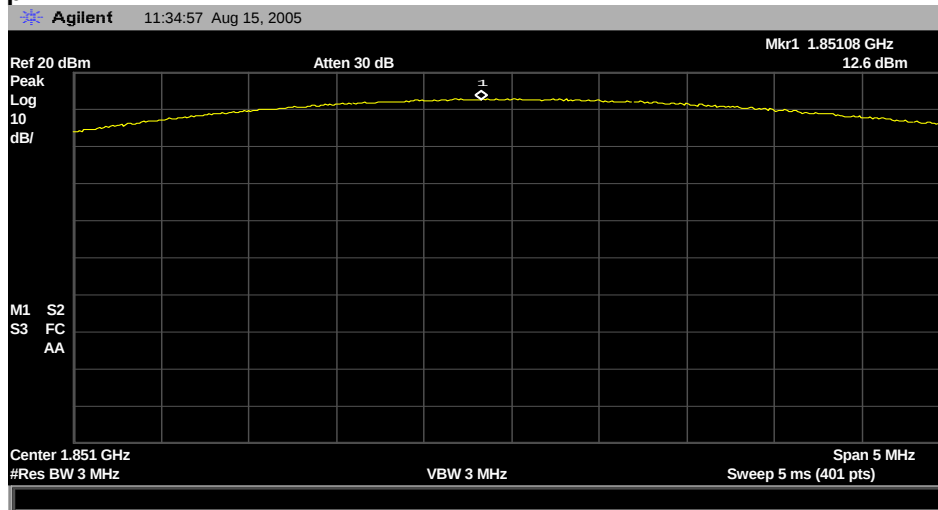


Figure 1: Peak Output Power Uplink CDMA Low Channel

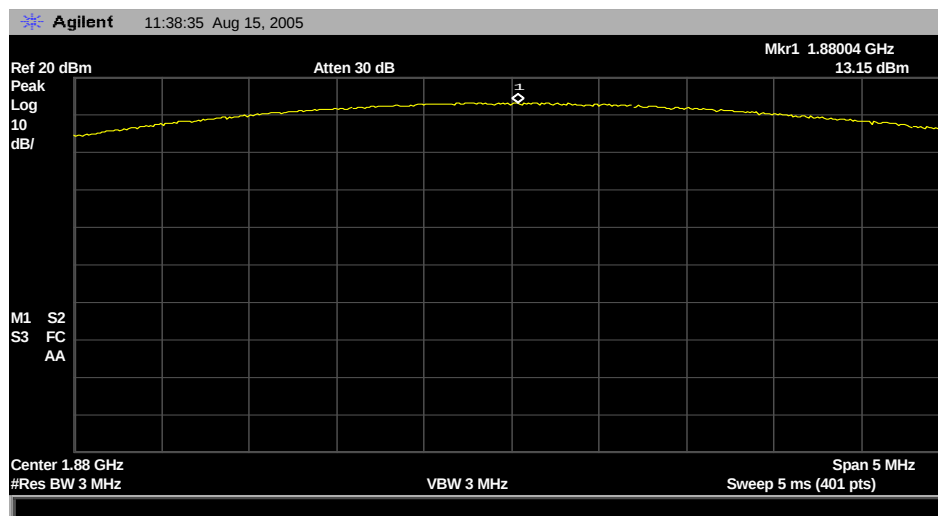


Figure 2: Peak Output Power Uplink CDMA Mid Channel

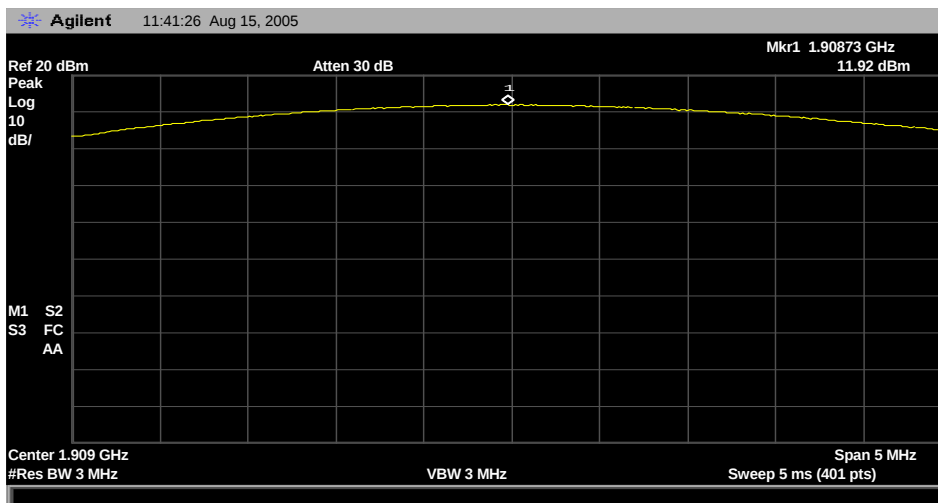


Figure 3: Peak Output Power Uplink CDMA High Channel

1.2 TDMA Uplink

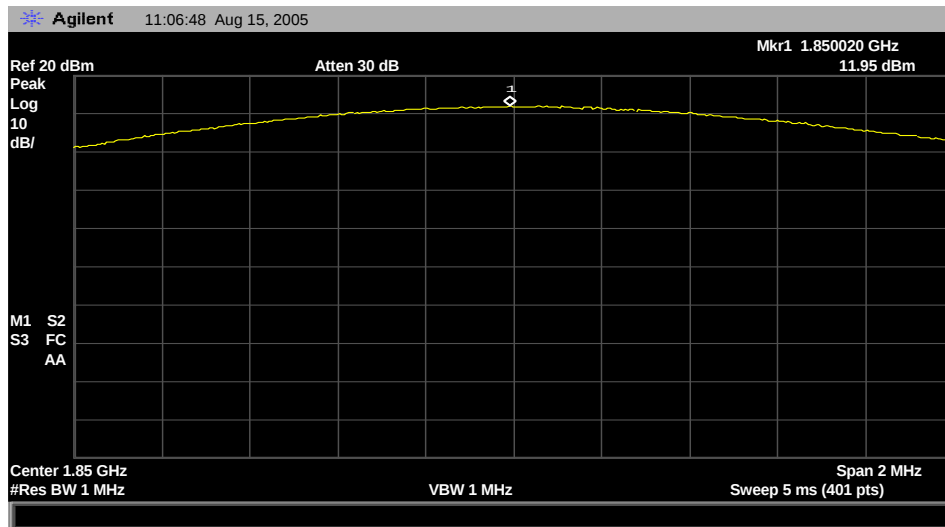


Figure 4: Peak Output Power Uplink TDMA Low Channel

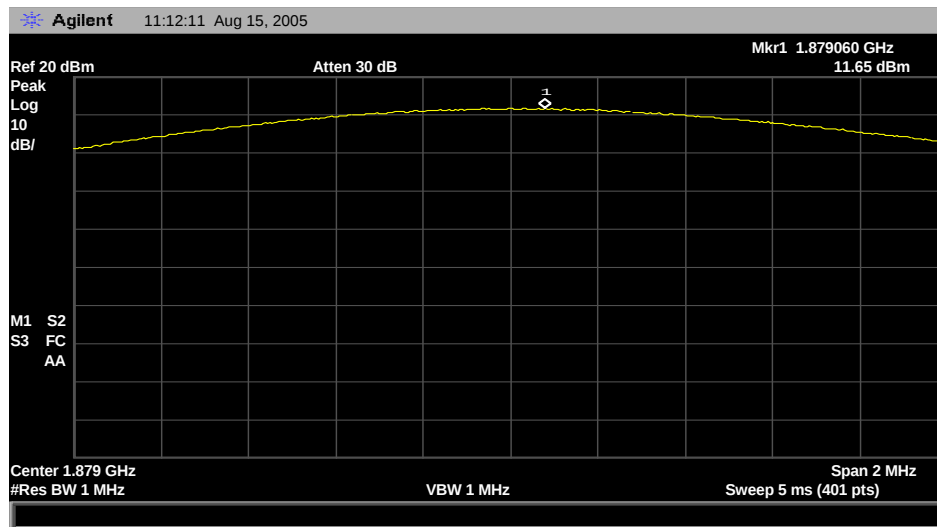


Figure 5: Peak Output Power Uplink TDMA Mid Channel

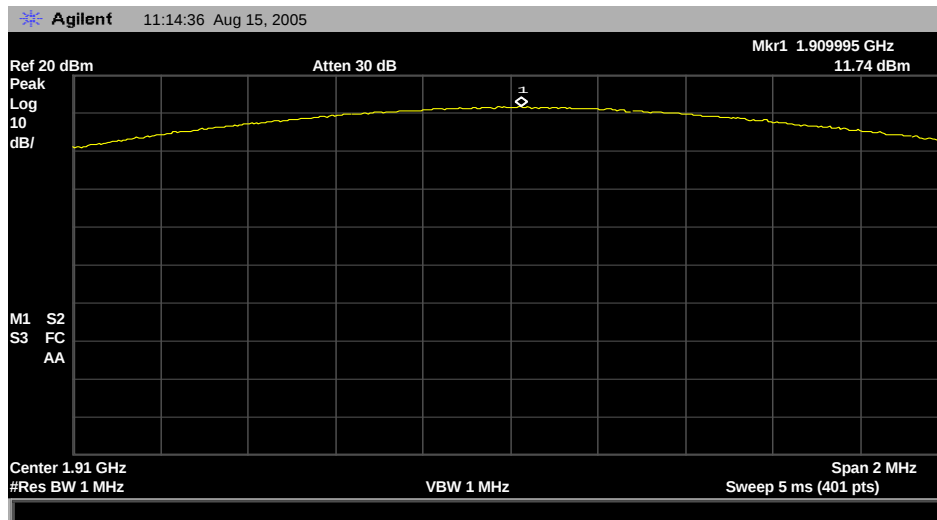


Figure 6: Peak Output Power Uplink TDMA High Channel

1.3 GSM Uplink

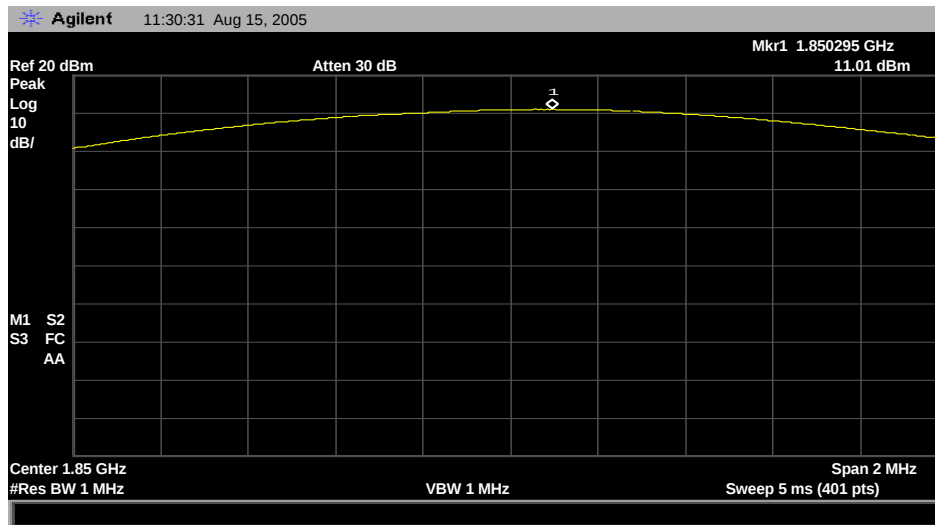


Figure 7: Peak Output Power Uplink GSM Low Channel

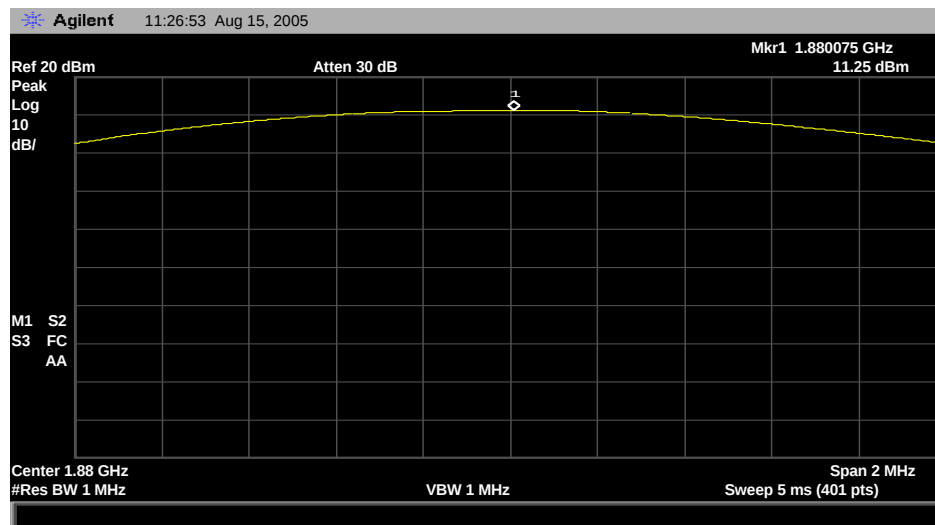


Figure 8: Peak Output Power Uplink GSM Mid Channel

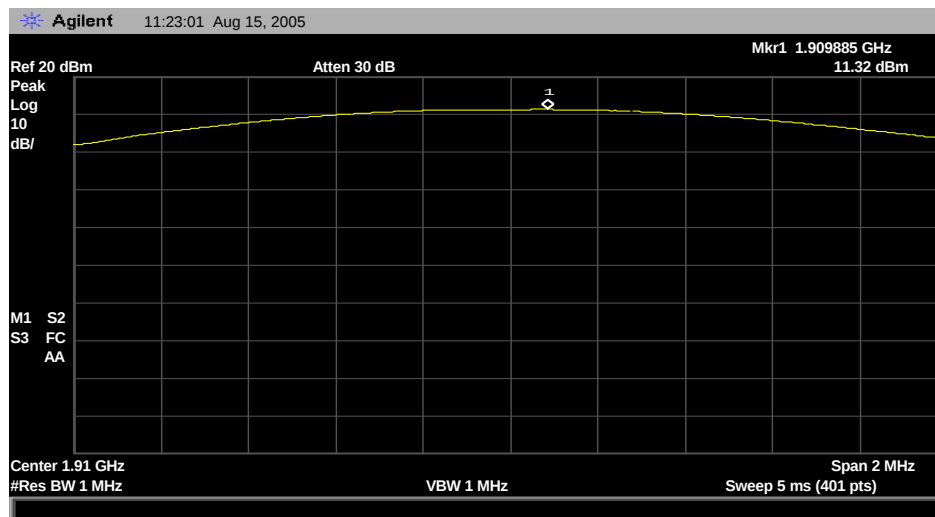


Figure 9: Peak Output Power Uplink GSM High Channel

1.4 CDMA Downlink

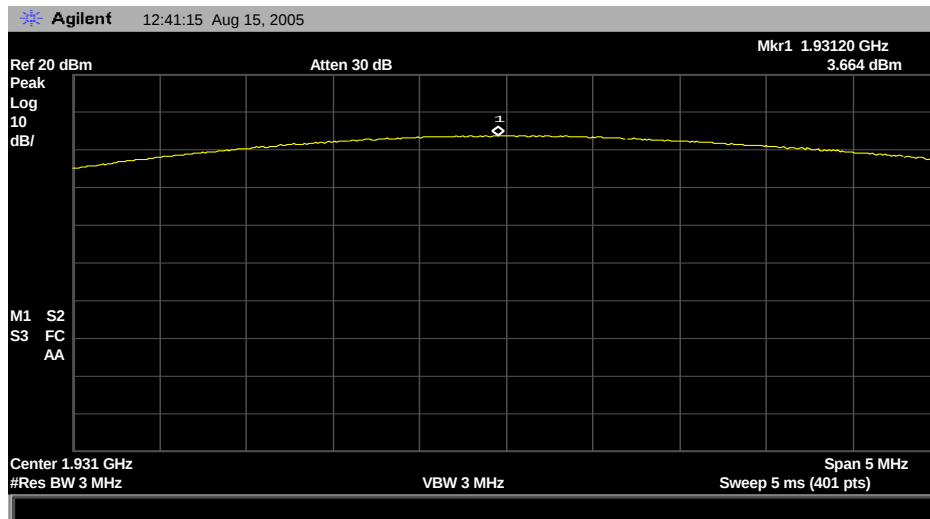


Figure 10: Peak Output Power Downlink CDMA Low Channel

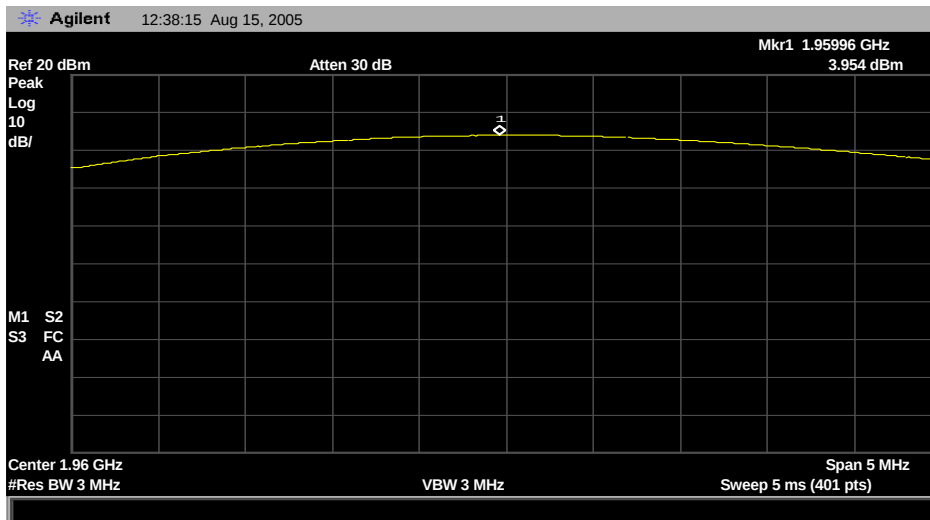


Figure 11: Peak Output Power Downlink CDMA Mid Channel

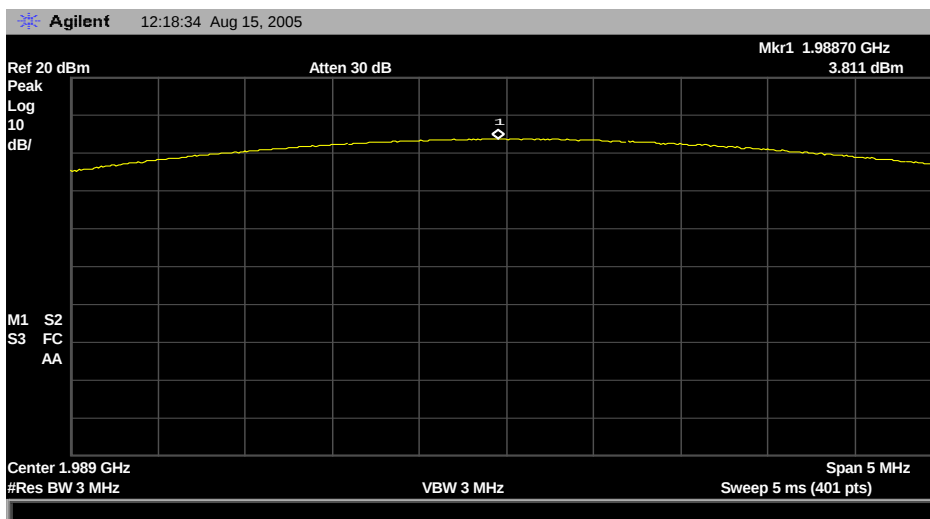


Figure 12: Peak Output Power Downlink CDMA High Channel

1.5 TDMA Downlink

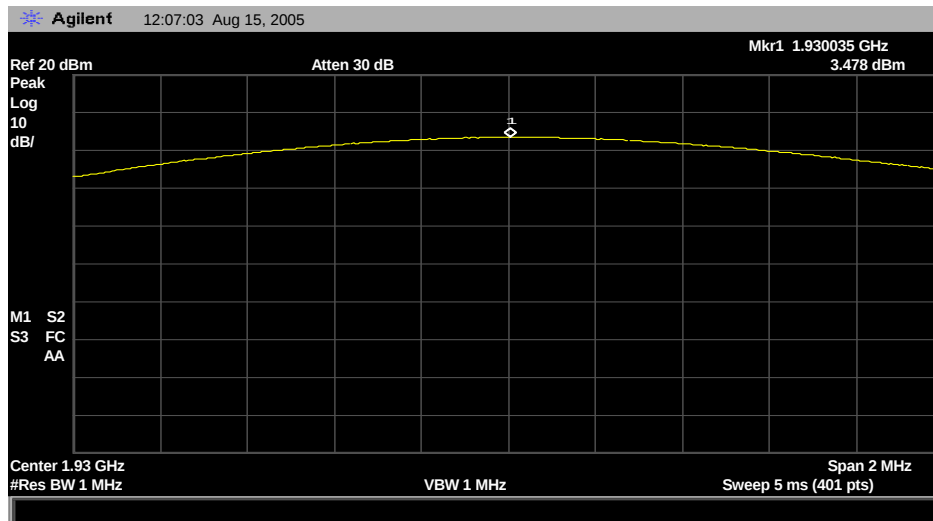


Figure 13: Peak Output Power Downlink TDMA Low Channel

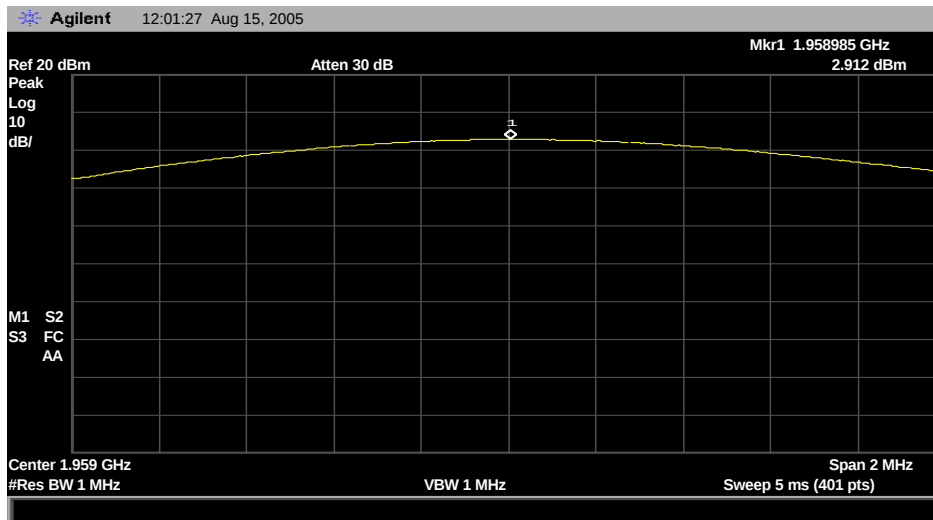


Figure 14: Peak Output Power Downlink TDMA Mid Channel

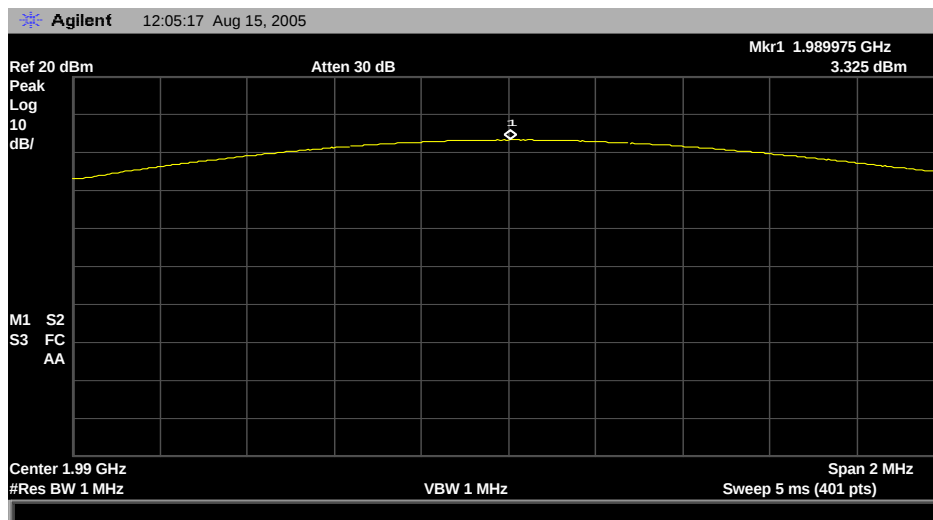


Figure 15: Peak Output Power Downlink TDMA High Channel

1.6 GSM Downlink

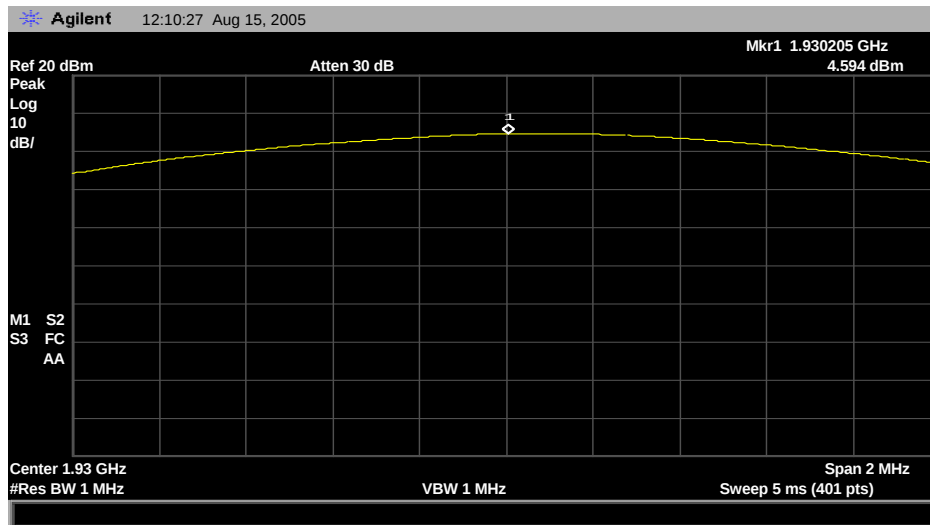


Figure 16: Peak Output Power Downlink GSM Low Channel

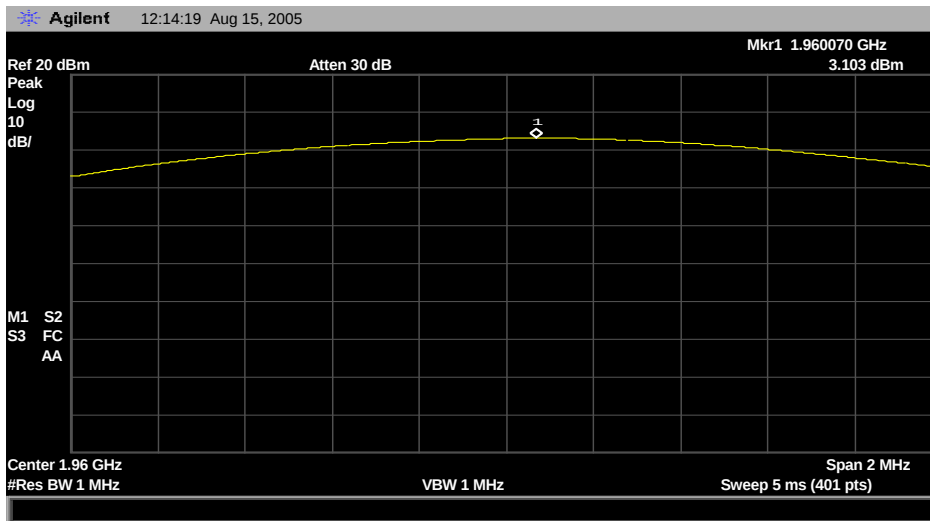


Figure 17: Peak Output Power Downlink GSM Mid Channel

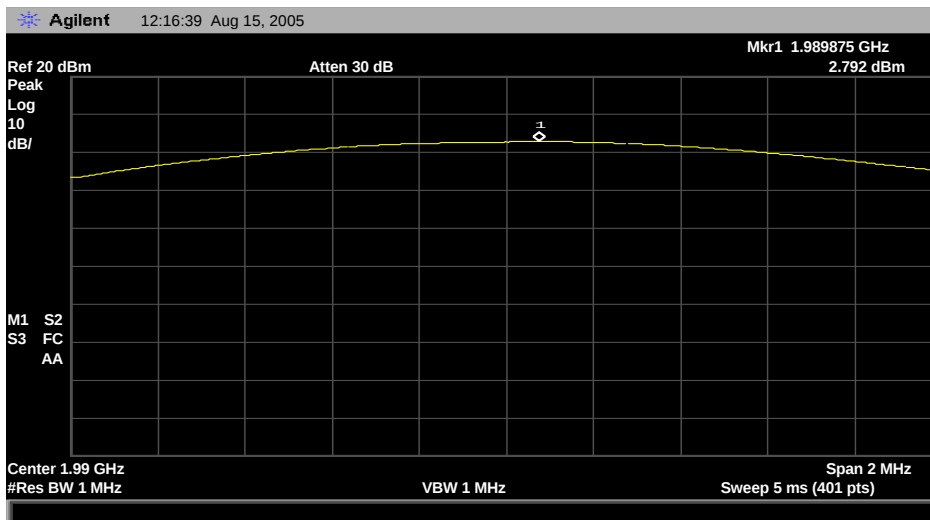


Figure 18: Peak Output Power Downlink GSM High Channel

2.0 Occupied Bandwidth

2.1 CDMA Uplink

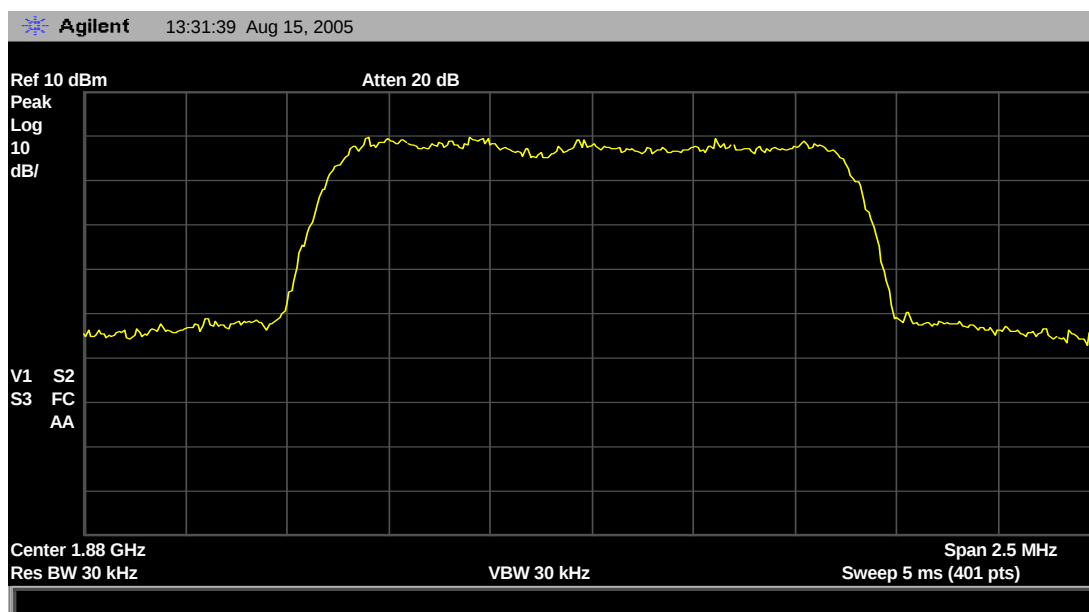


Figure 19: Occupied Bandwidth - Input Uplink CDMA Mid Channel

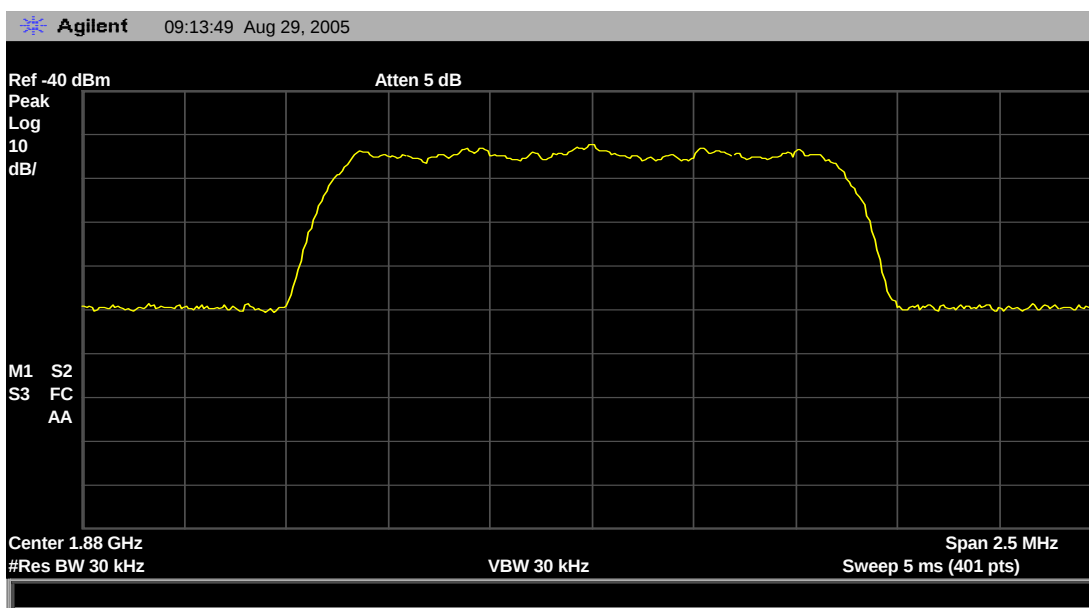


Figure 20: Occupied Bandwidth - Output Uplink CDMA Mid Channel

2.2 TDMA Uplink

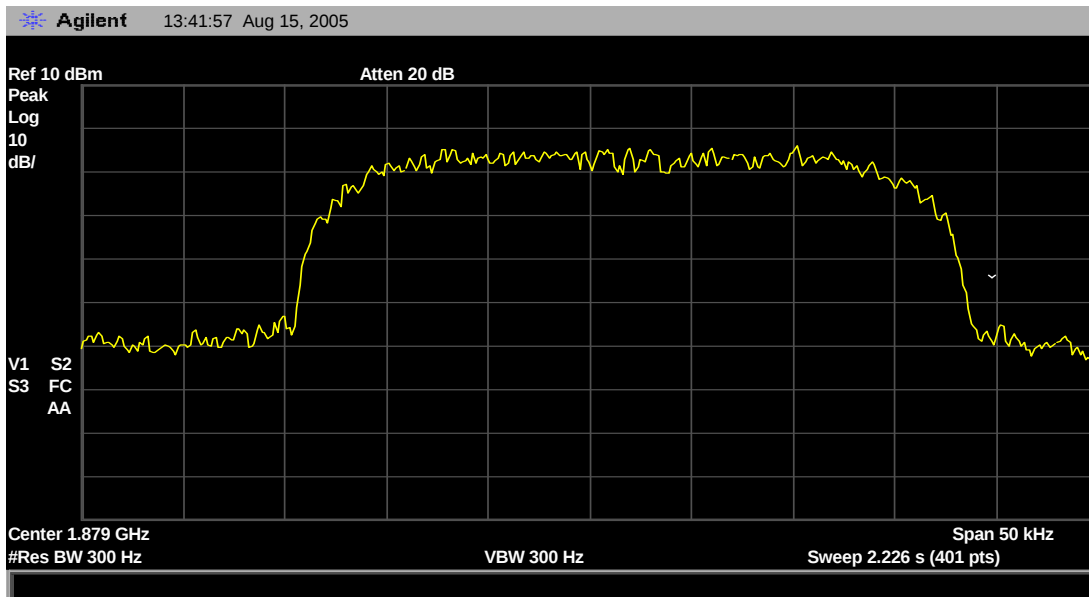


Figure 21: Occupied Bandwidth - Input Uplink TDMA Mid Channel

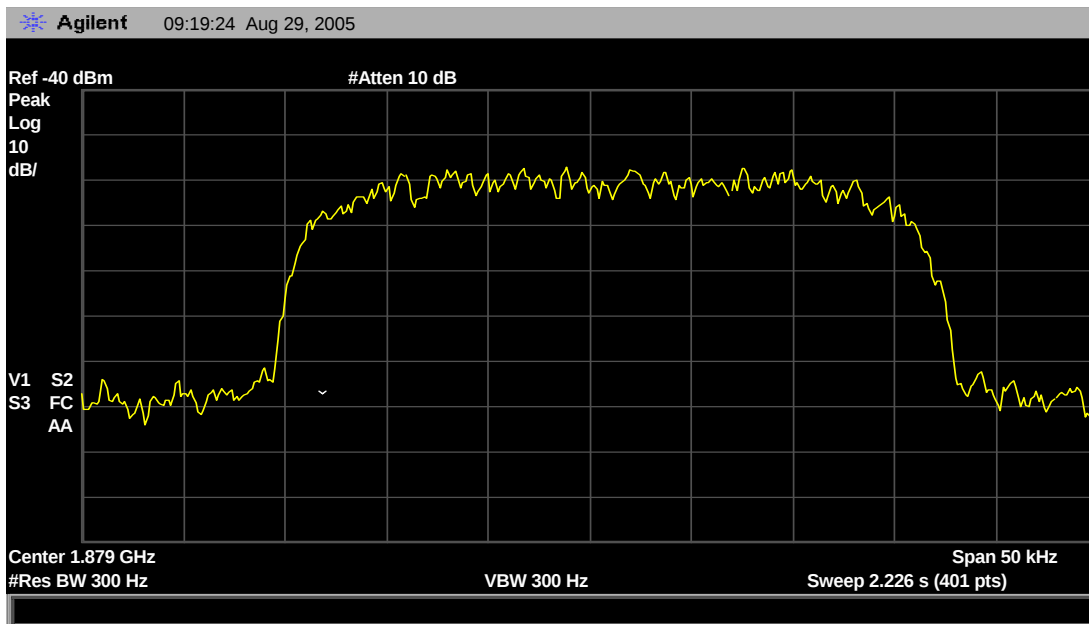


Figure 22: Occupied Bandwidth - Output Uplink TDMA Mid Channel

2.3 GSM Uplink

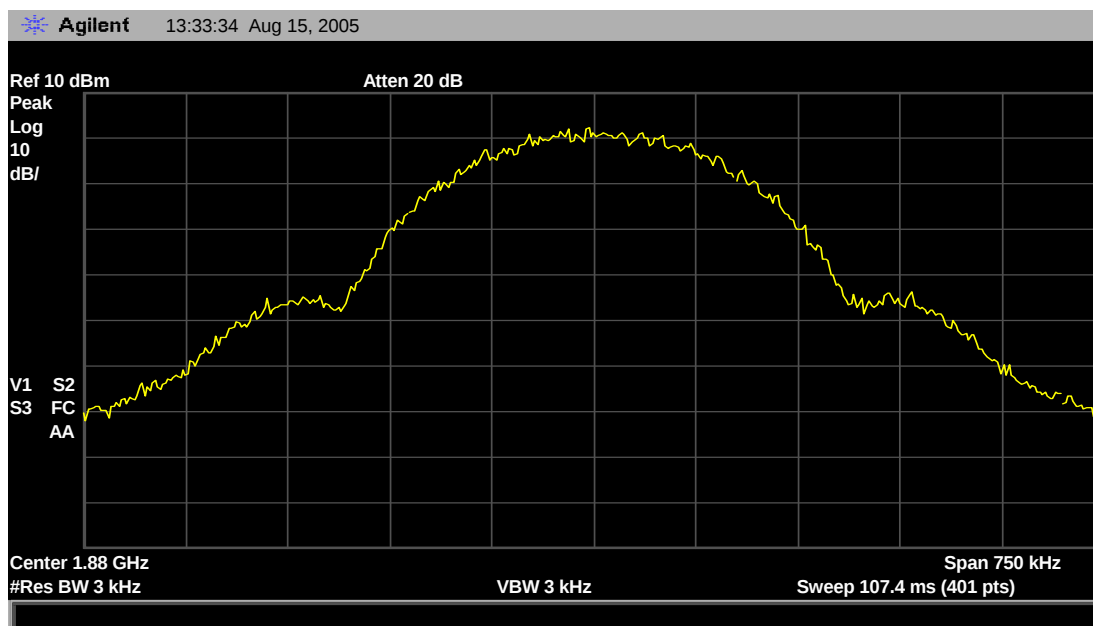


Figure 23: Occupied Bandwidth - Input Uplink GSM Mid Channel

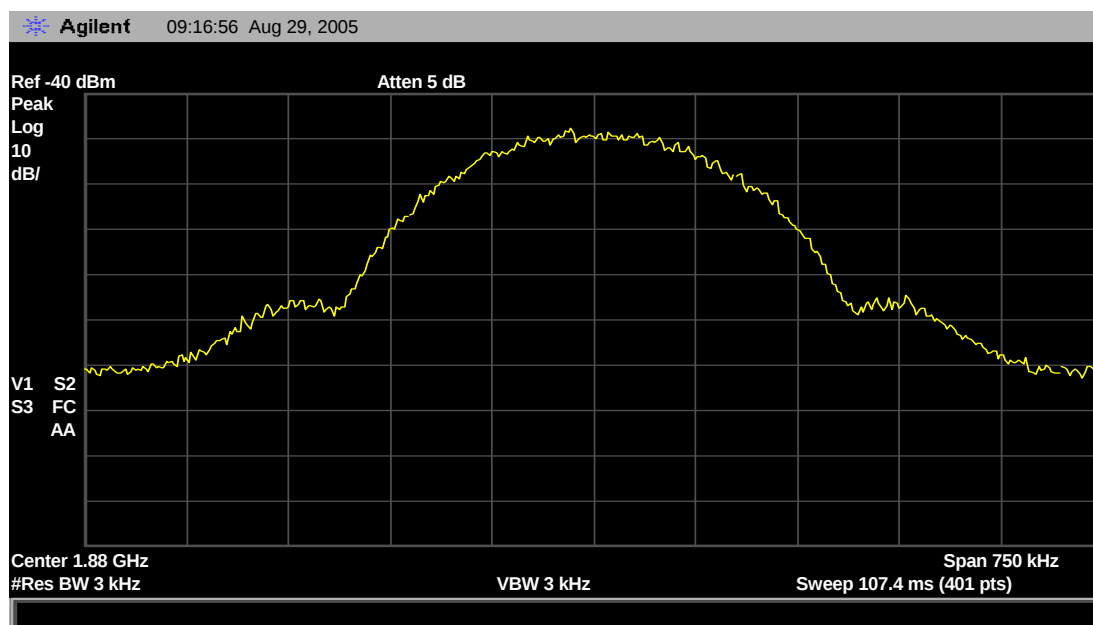


Figure 24: Occupied Bandwidth - Output Uplink GSM Mid Channel

2.4 CDMA Downlink

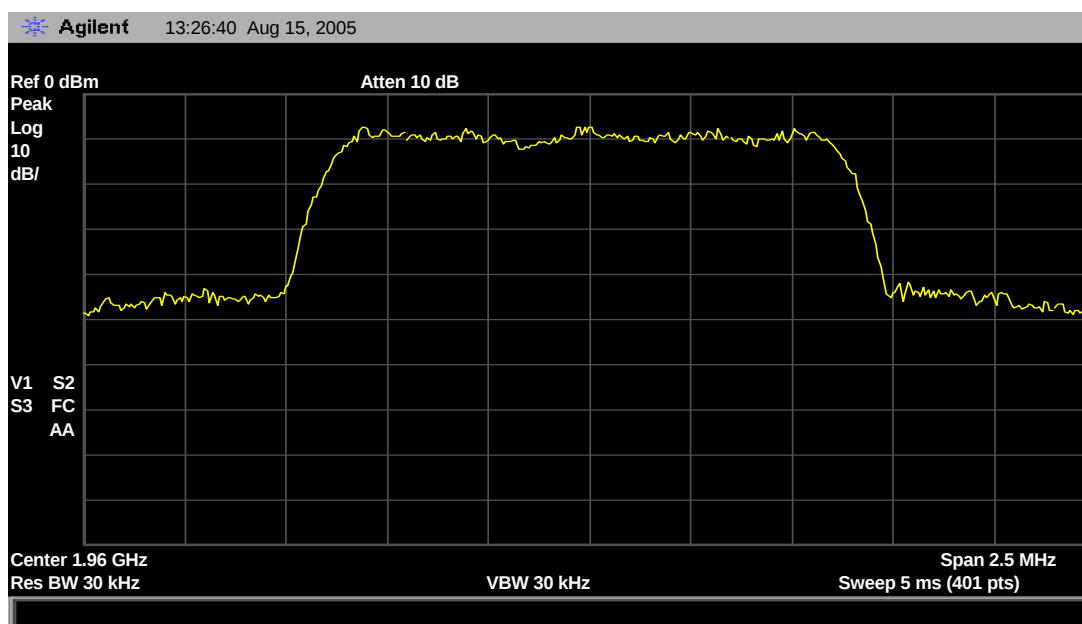


Figure 25: Occupied Bandwidth - Input Downlink CDMA Mid Channel

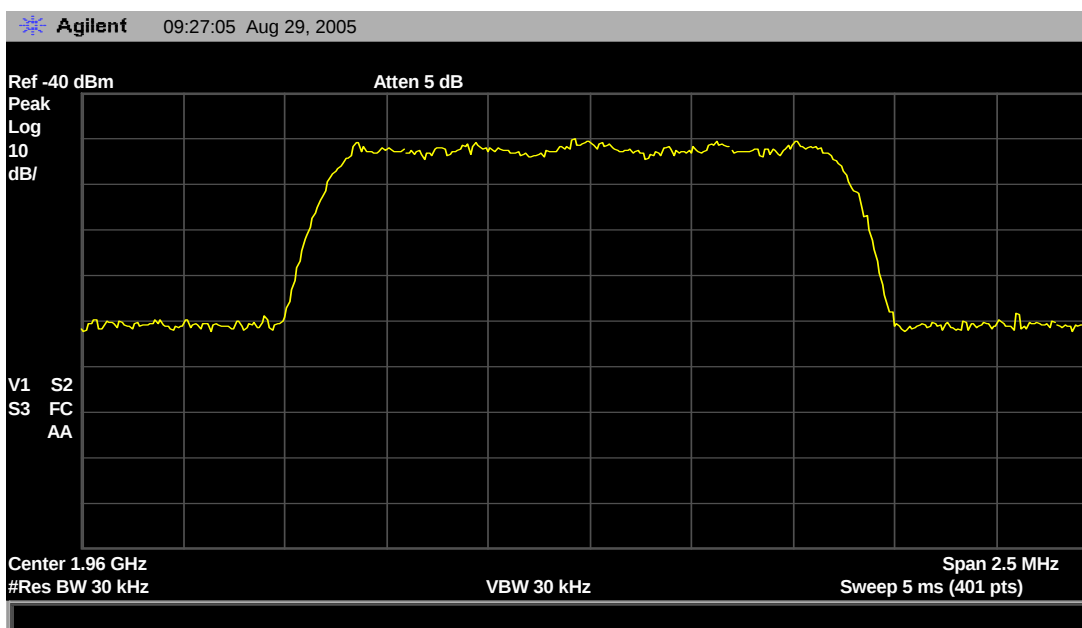


Figure 26: Occupied Bandwidth - Output Downlink CDMA Mid Channel

2.5 TDMA Downlink

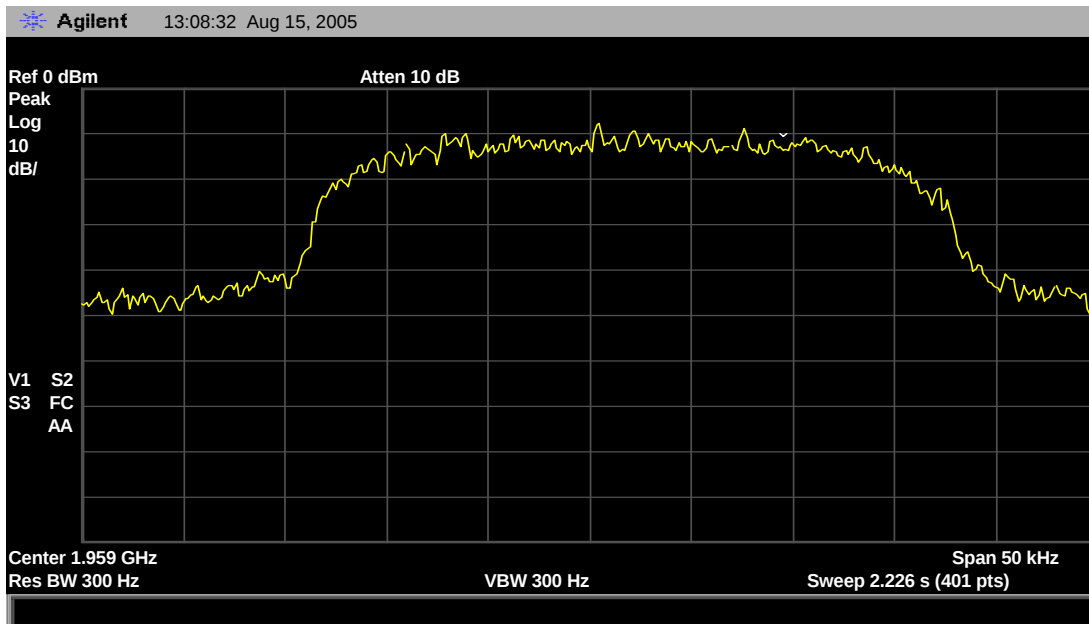


Figure 27: Occupied Bandwidth - Input Downlink TDMA Mid Channel

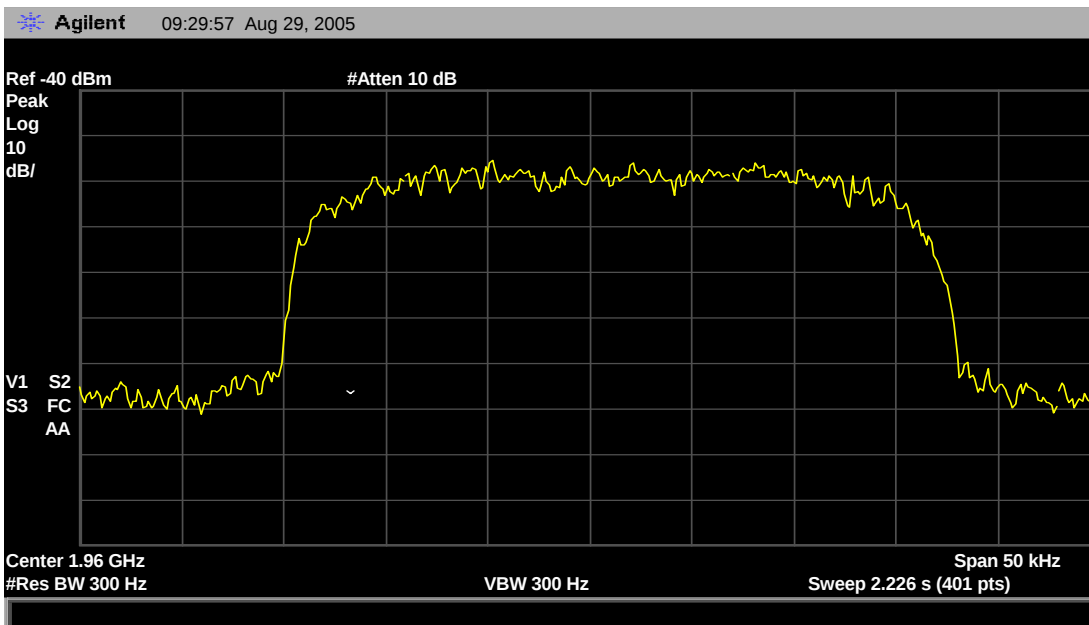


Figure 28: Occupied Bandwidth - Output Downlink TDMA Mid Channel

2.6 GSM Downlink

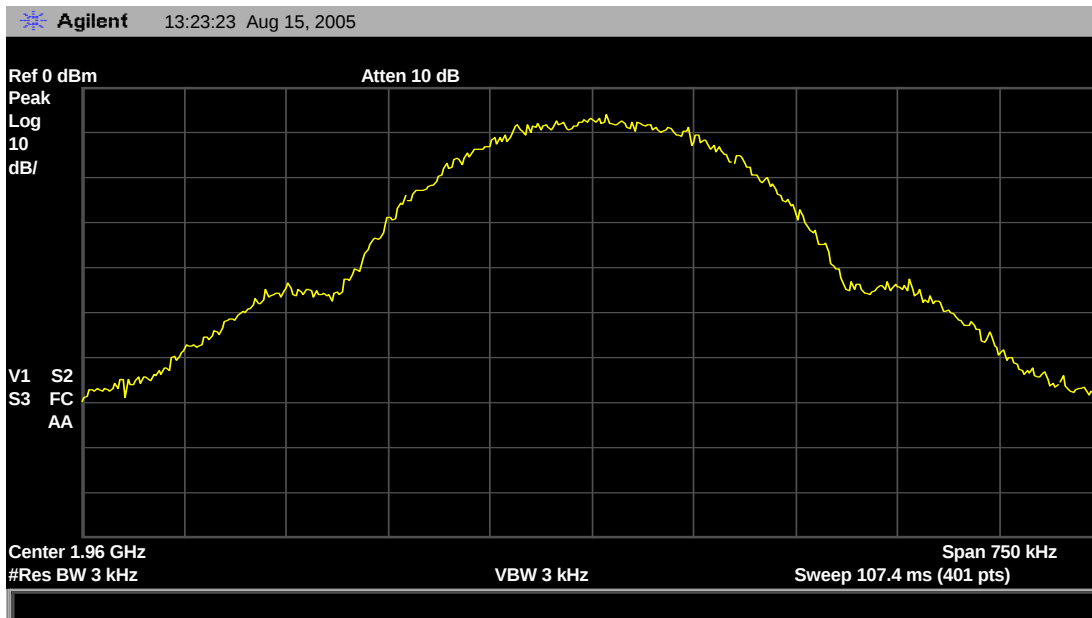


Figure 29: Occupied Bandwidth - Input Downlink GSM Mid Channel

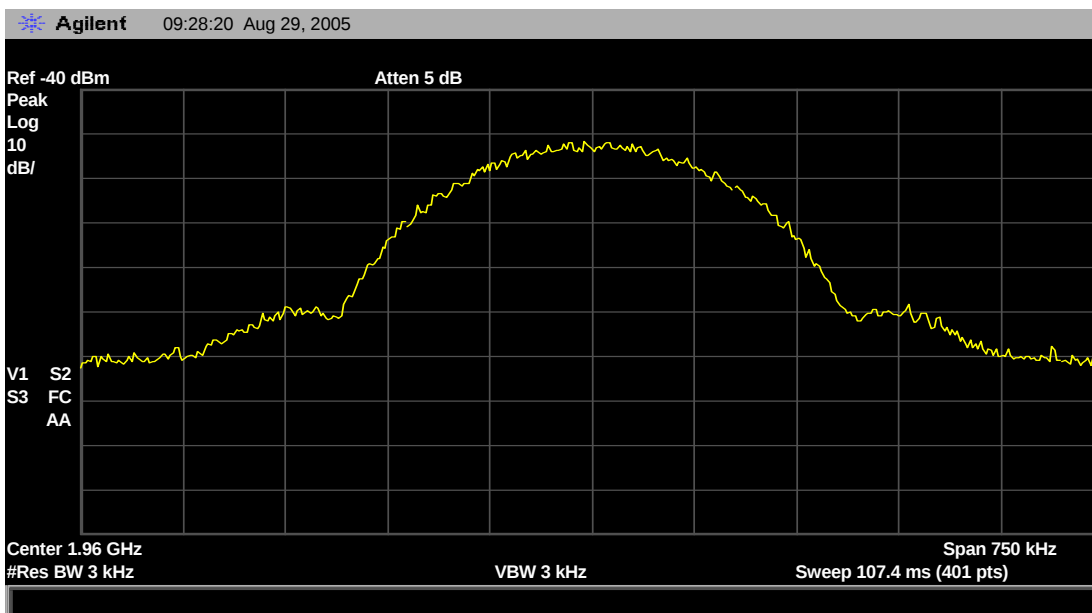


Figure 30: Occupied Bandwidth - Output Downlink GSM Mid Channel

2.0 Spurious Emissions at Antenna Terminals and Inter-modulation Products

3.1 CDMA Uplink

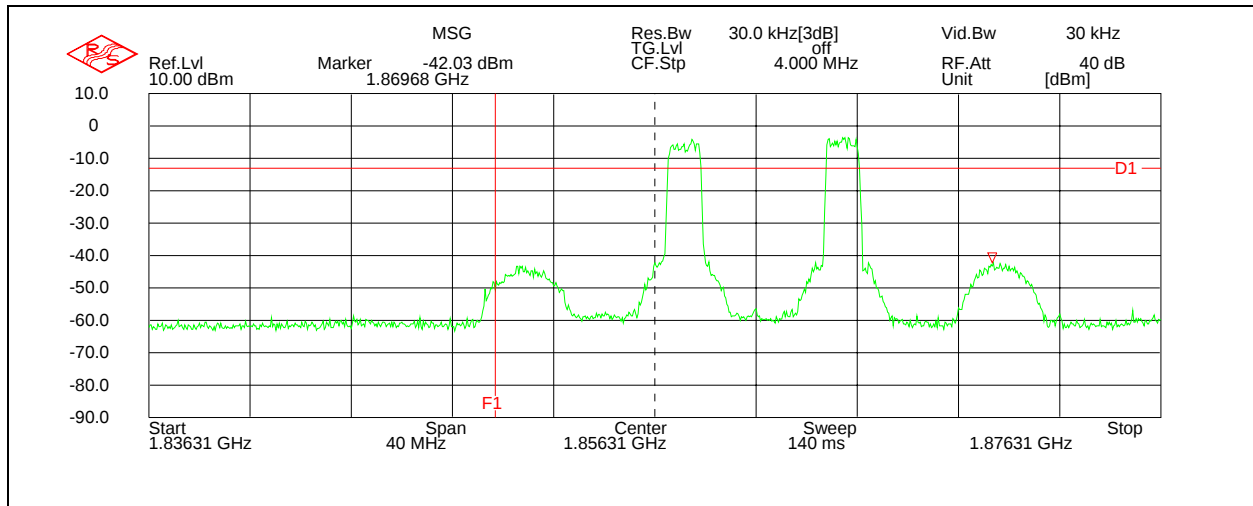


Figure 31: Spurious Emissions - Uplink CDMA Low Channel – In Band

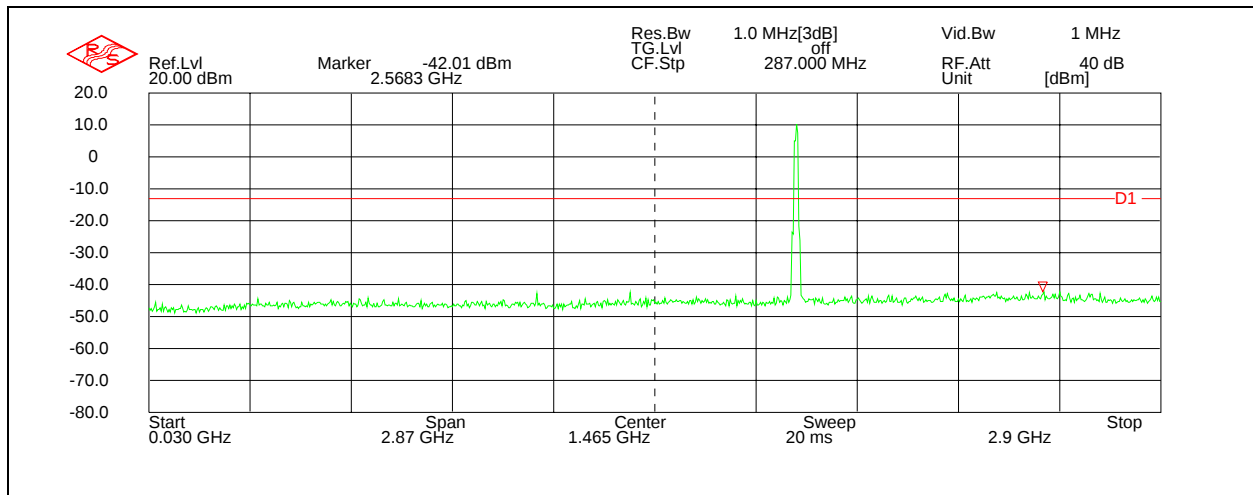


Figure 32: Spurious Emissions - Uplink CDMA Low Channel – 30 MHz to 2.9 GHz

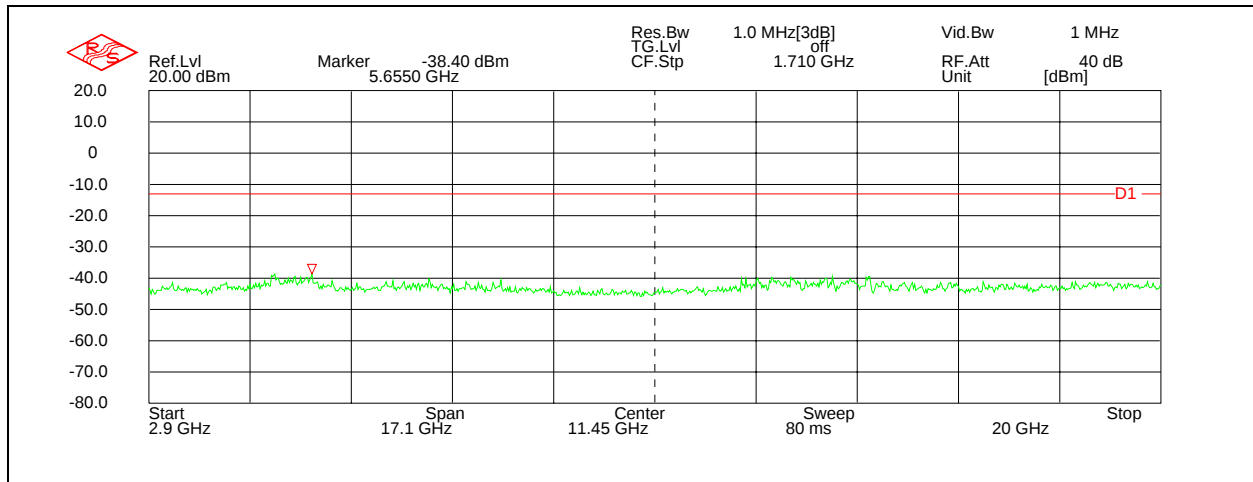
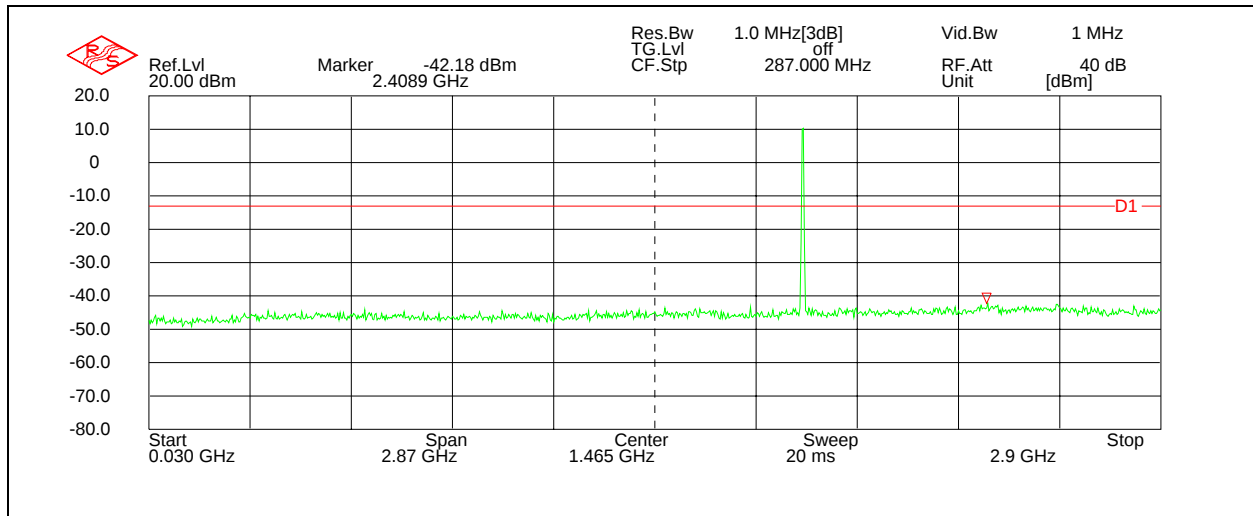
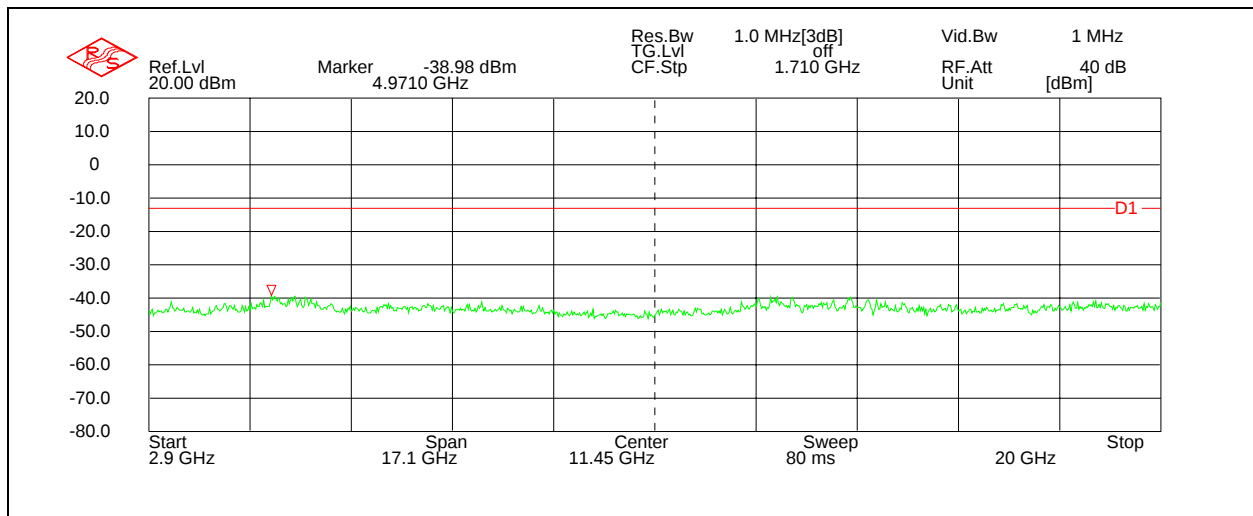


Figure 33: Spurious Emissions - Uplink CDMA Low Channel – 2.9 to 20 GHz

**Figure 34: Spurious Emissions - Uplink CDMA Mid Channel – 30 MHz to 2.9 GHz****Figure 35: Spurious Emissions - Uplink CDMA Mid Channel – 2.9 to 20 GHz**

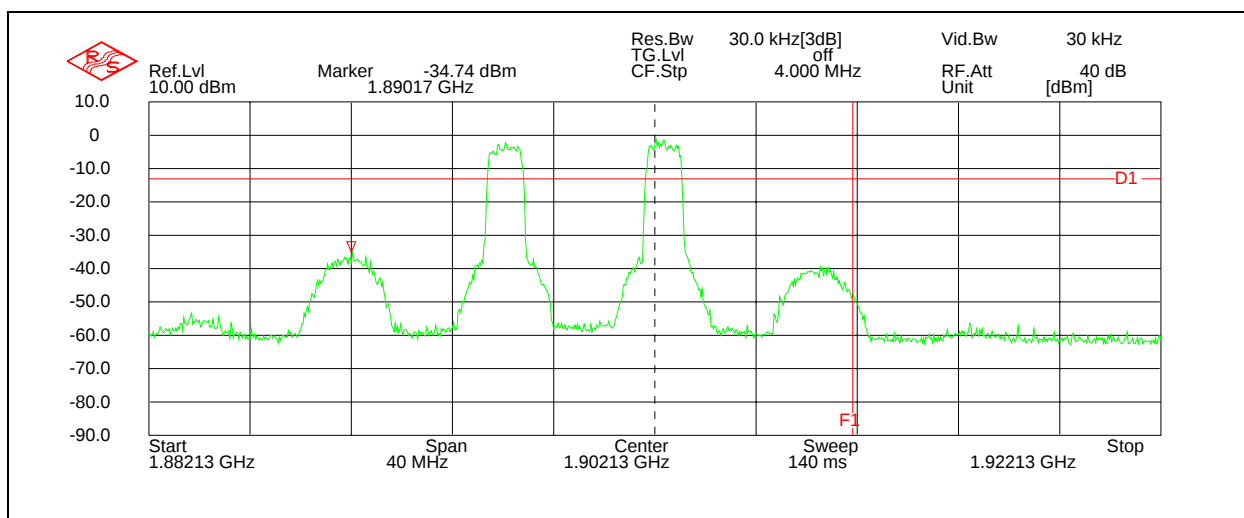


Figure 36: Spurious Emissions - Uplink CDMA High Channel – In Band

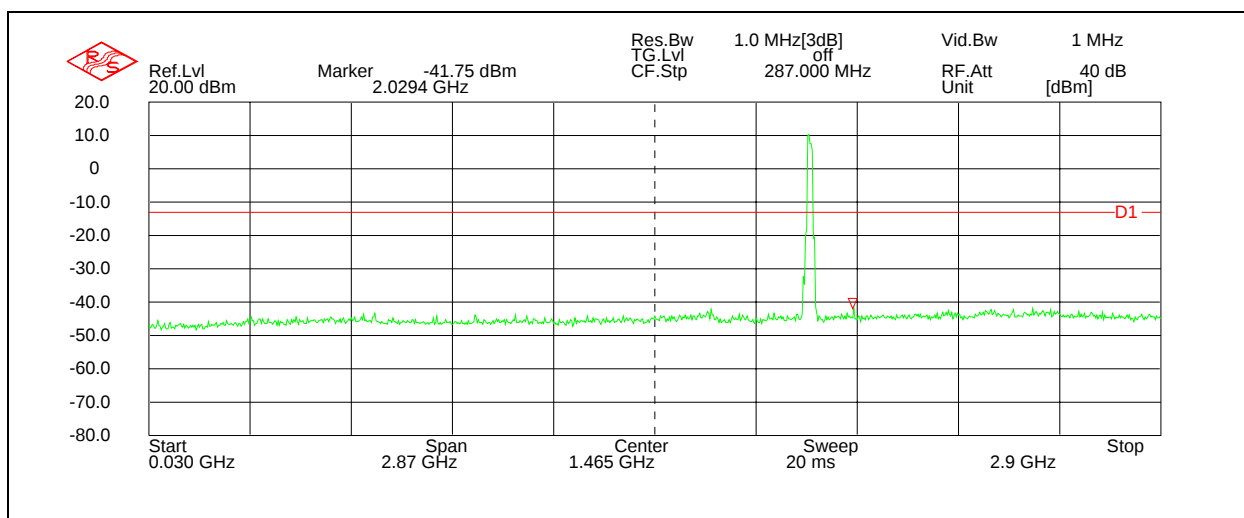


Figure 37: Spurious Emissions - Uplink CDMA High Channel – 30 MHz to 2.9 GHz

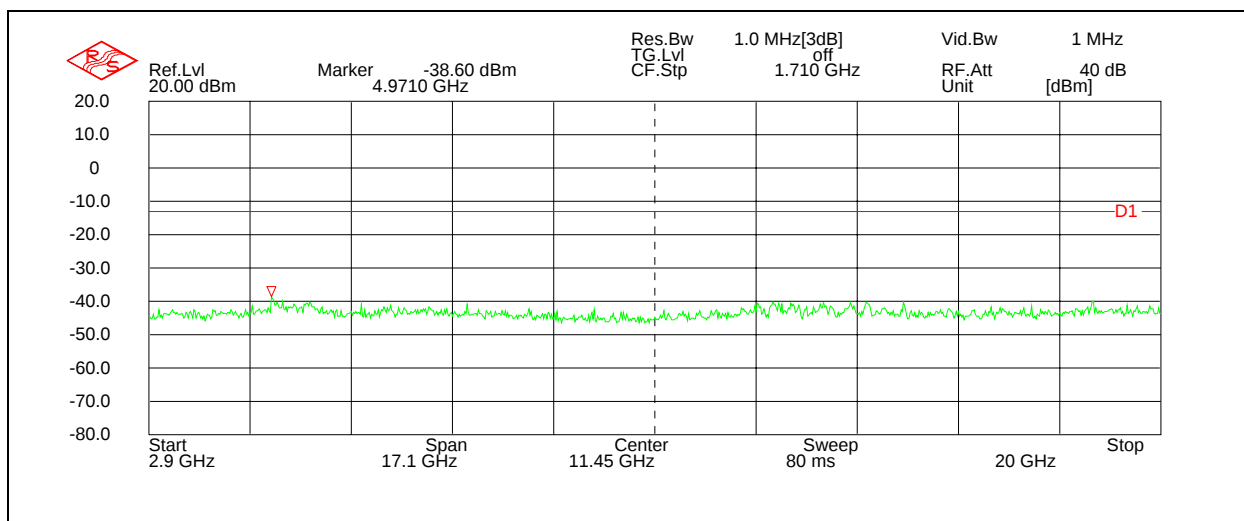


Figure 38: Spurious Emissions - Uplink CDMA High Channel – 2.9 to 20 GHz

3.2 TDMA Uplink

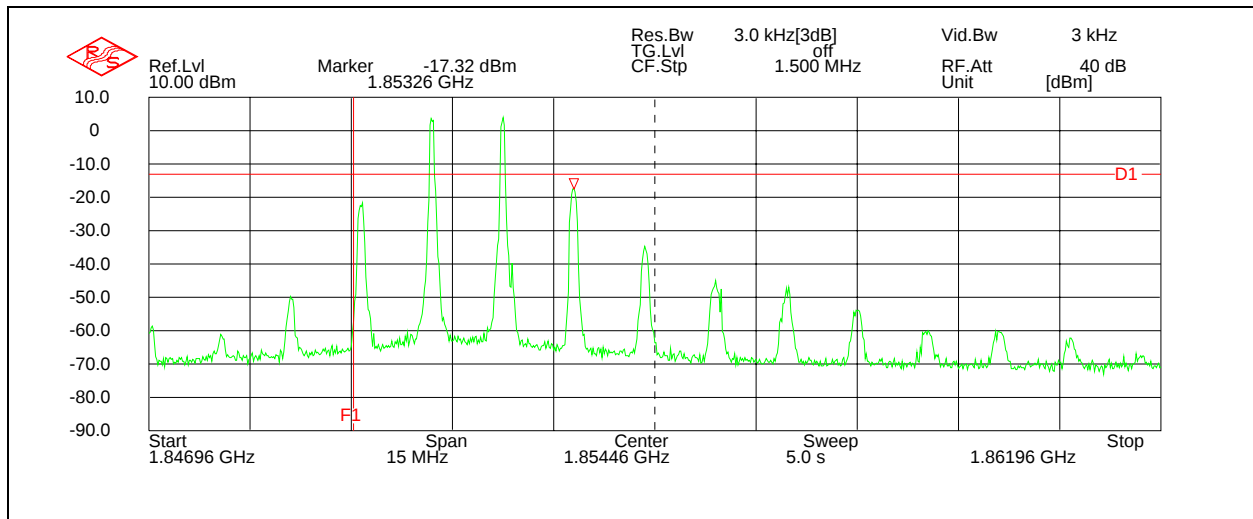


Figure 39: Spurious Emissions - Uplink TDMA Low Channel – In Band

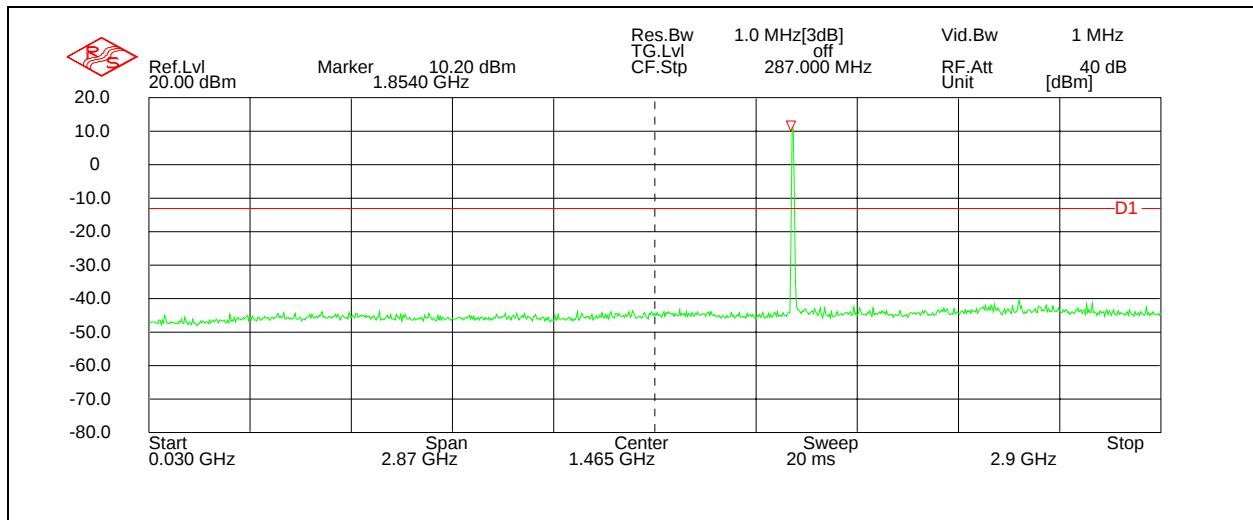


Figure 40: Spurious Emissions - Uplink TDMA Low Channel – 30 MHz to 2.9 GHz

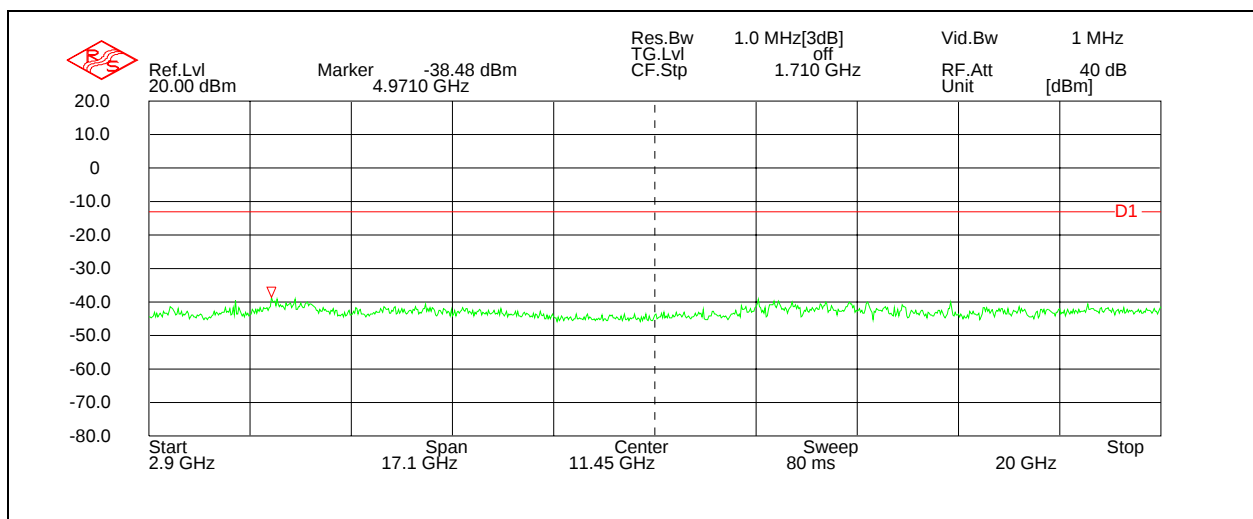
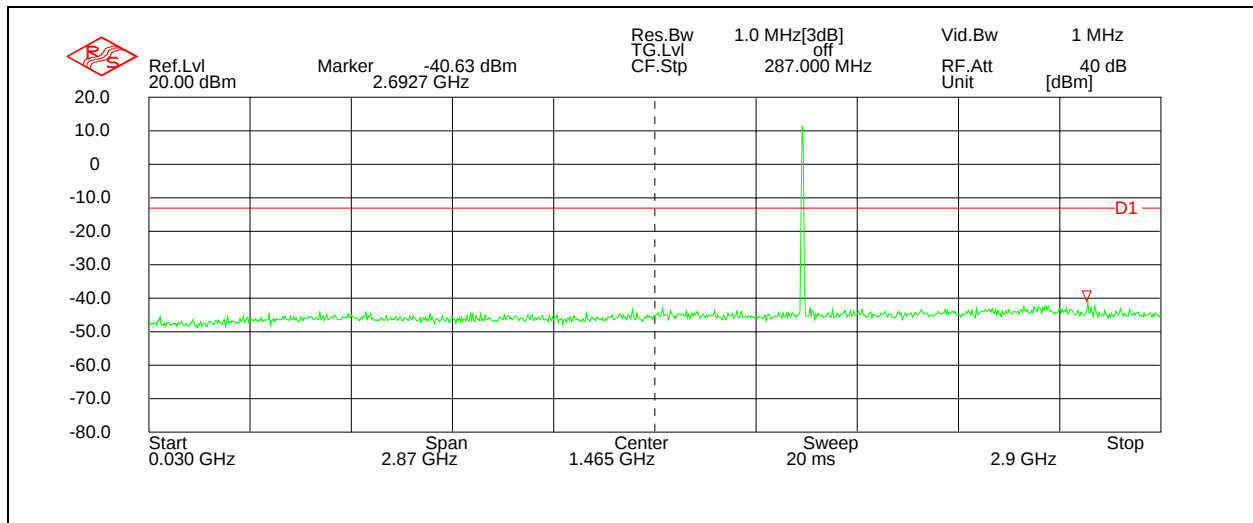
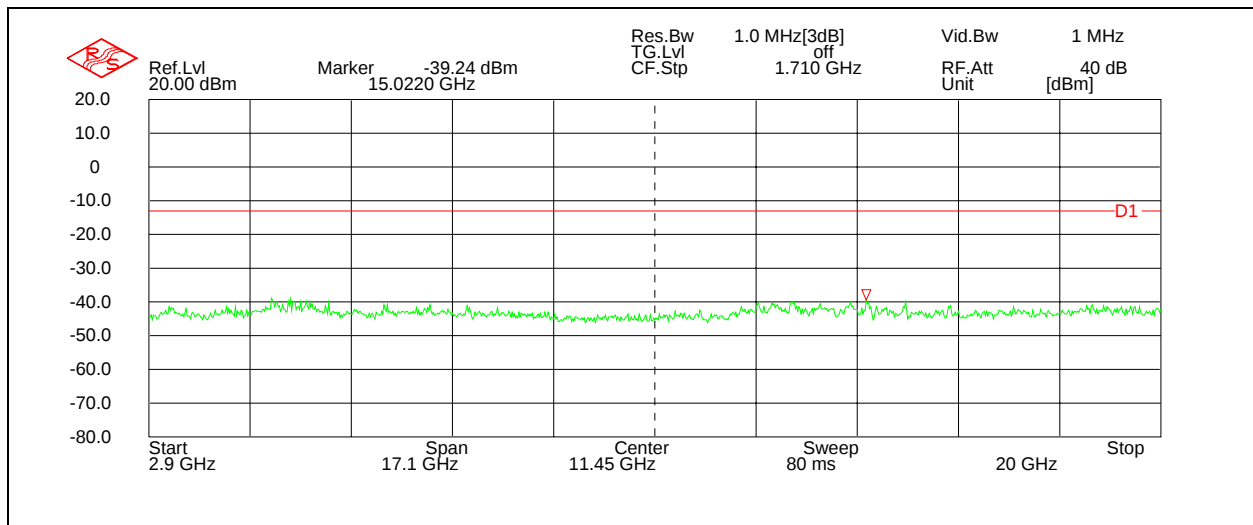


Figure 41: Spurious Emissions - Uplink TDMA Low Channel – 2.9 to 20 GHz

**Figure 42: Spurious Emissions - Uplink TDMA Mid Channel – 30 MHz to 2.9 GHz****Figure 43: Spurious Emissions - Uplink TDMA Mid Channel – 2.9 to 20 GHz**

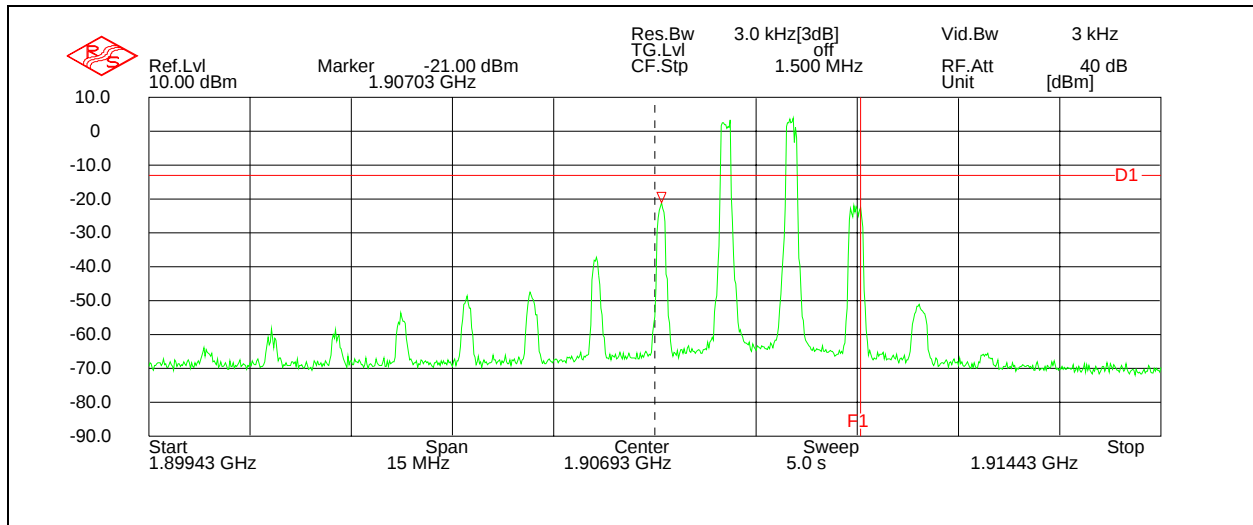


Figure 44: Spurious Emissions - Uplink TDMA High Channel – In Band

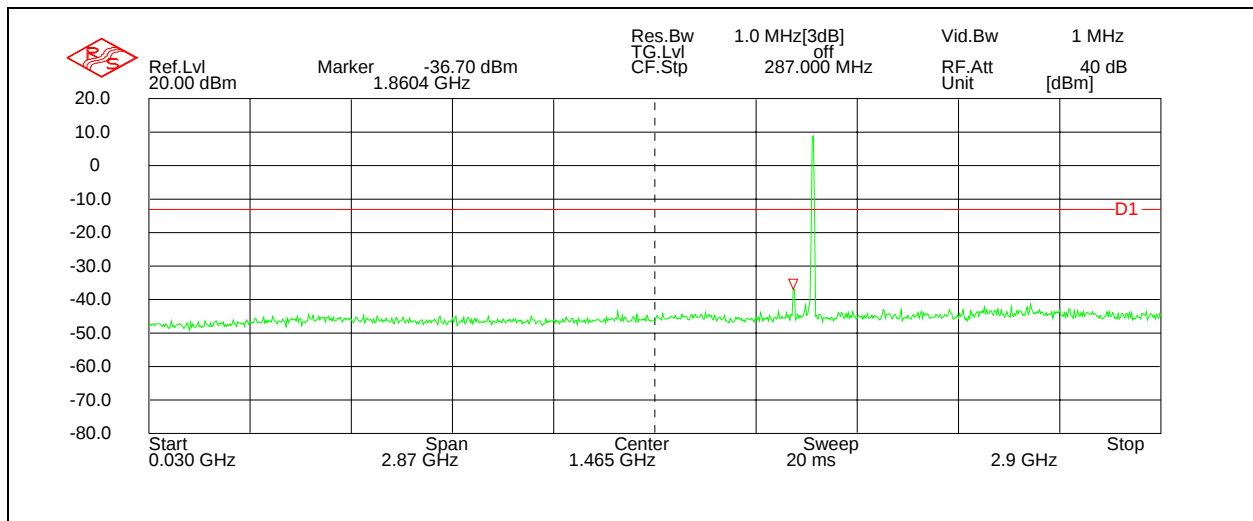


Figure 45: Spurious Emissions - Uplink TDMA High Channel – 30 MHz to 2.9 GHz

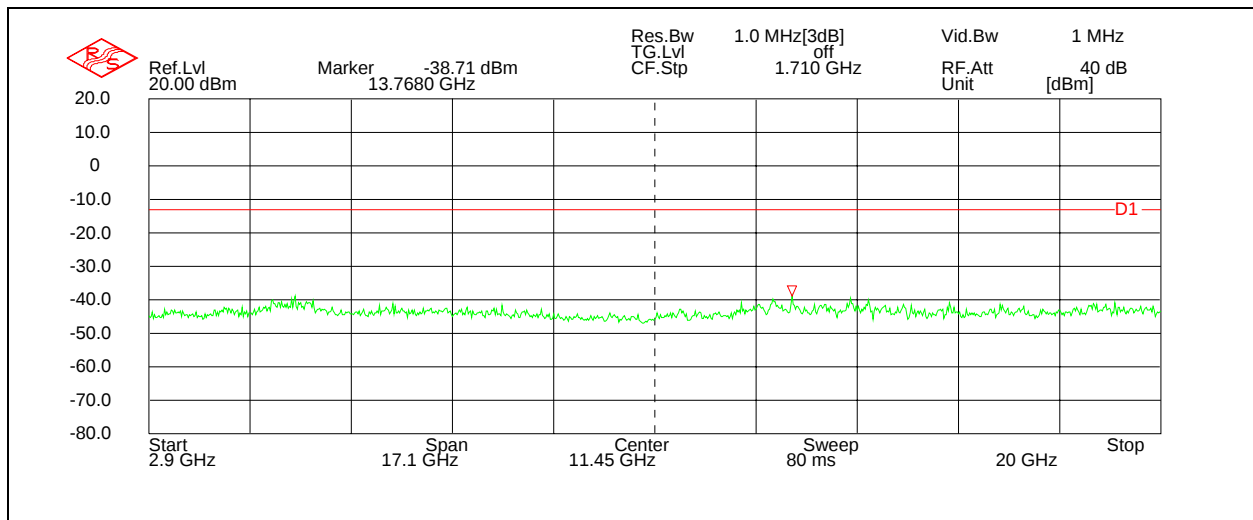


Figure 46: Spurious Emissions - Uplink TDMA High Channel – 2.9 to 20 GHz

3.3 GSM Uplink

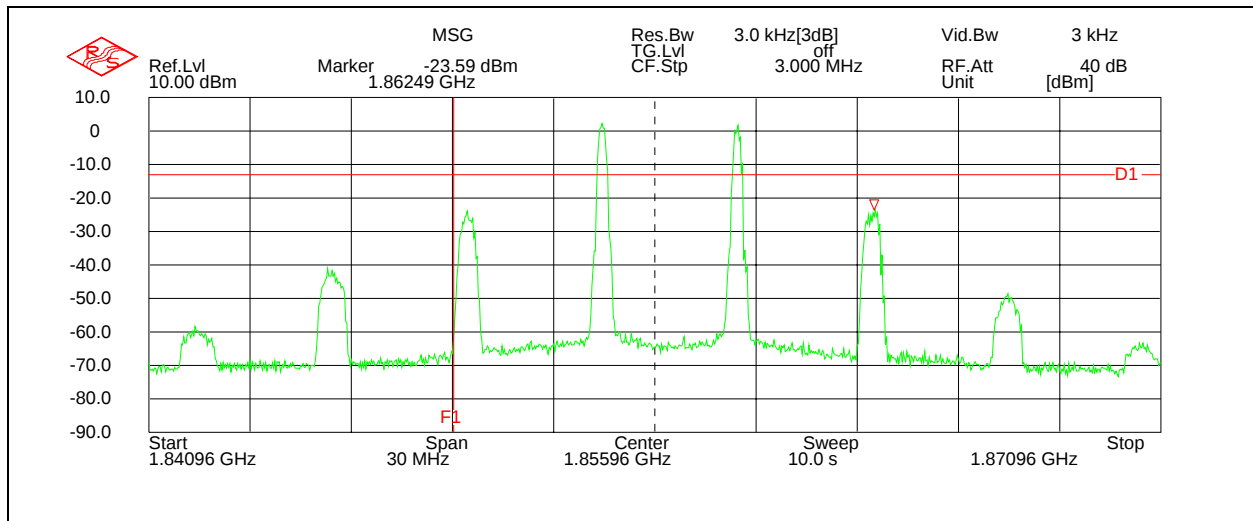


Figure 47: Spurious Emissions - Uplink GSM Low Channel – In Band

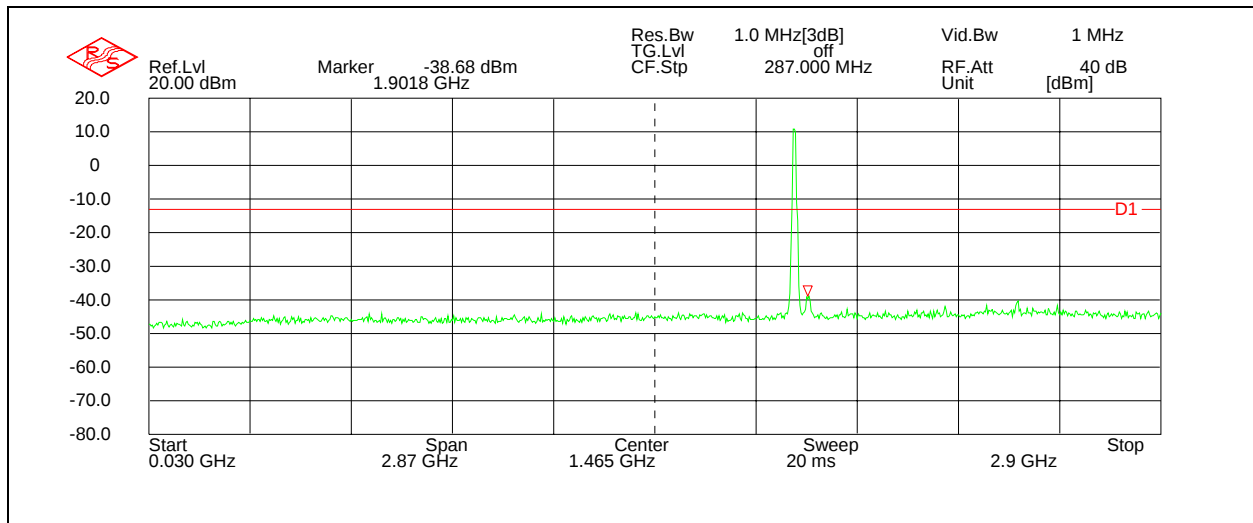


Figure 48: Spurious Emissions - Uplink GSM Low Channel – 30 MHz to 2.9 GHz

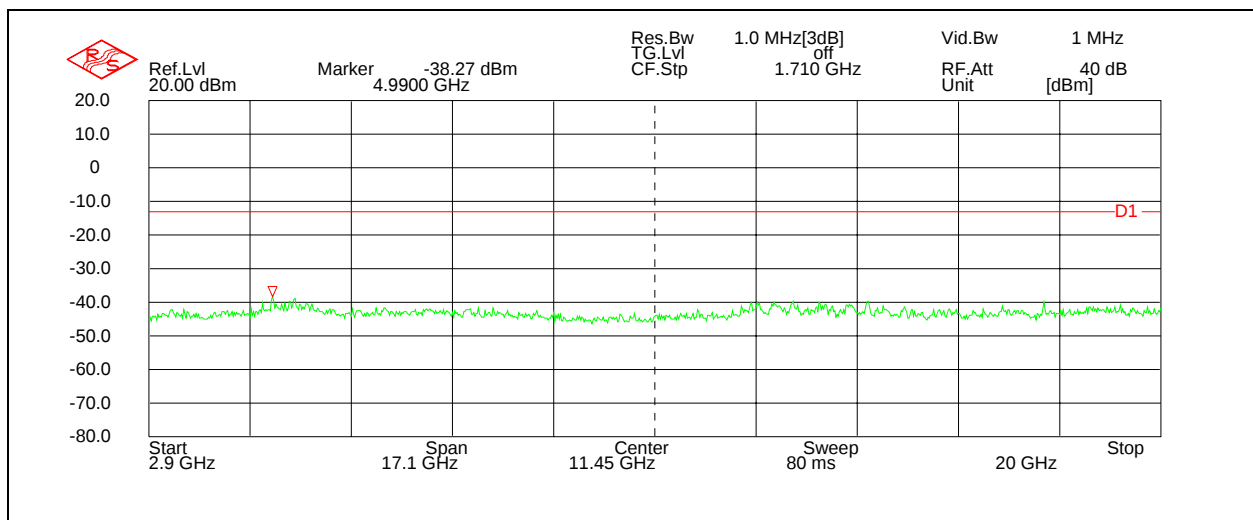


Figure 49: Spurious Emissions - Uplink GSM Low Channel – 2.9 to 20 GHz

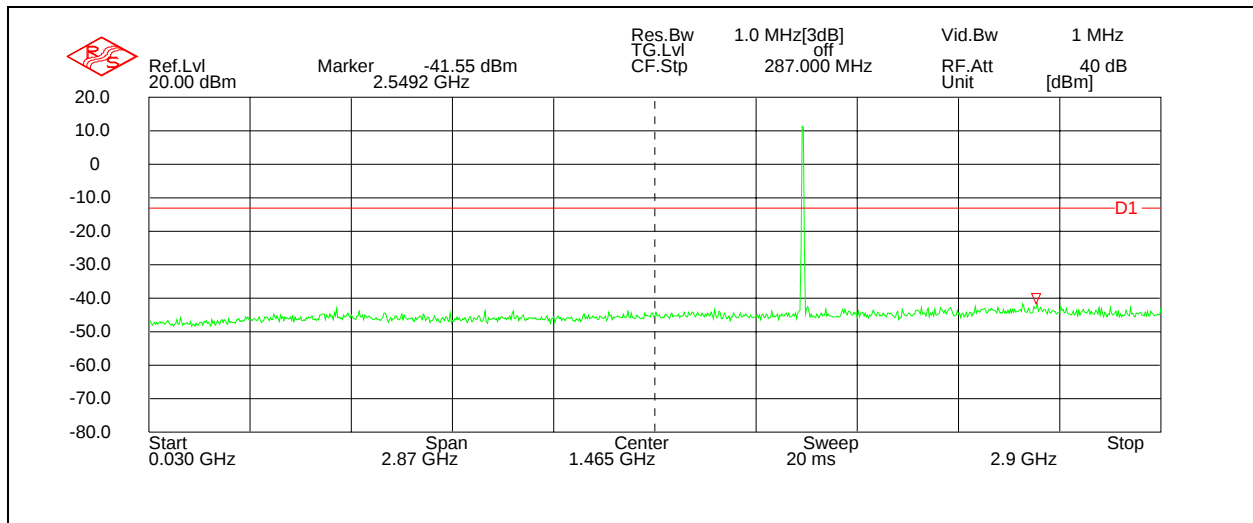


Figure 50: Spurious Emissions - Uplink GSM Mid Channel – 30 MHz to 2.9 GHz

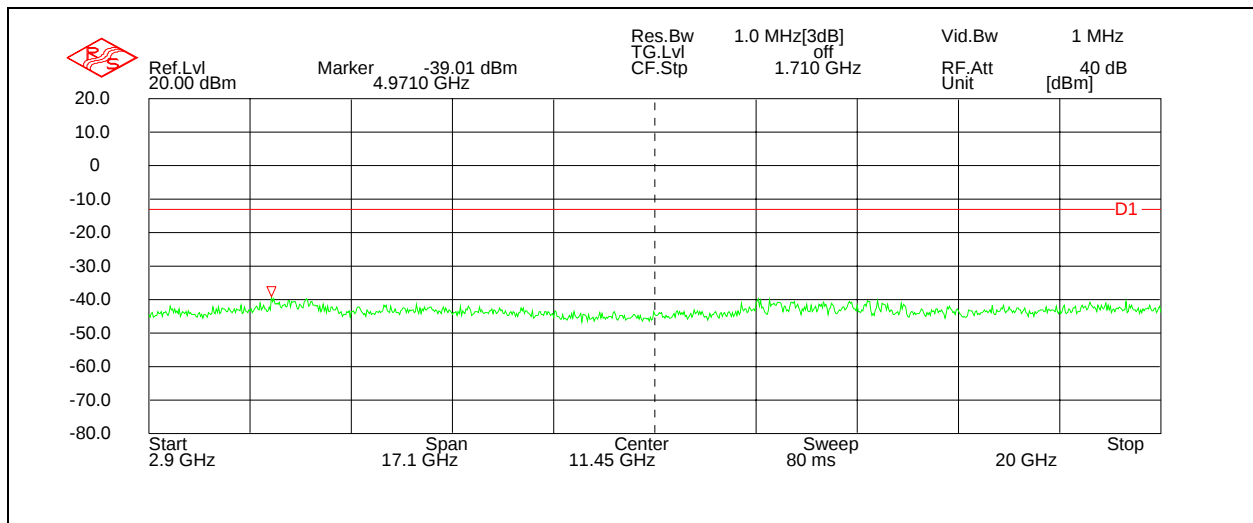


Figure 51: Spurious Emissions - Uplink GSM Mid Channel – 2.9 to 20 GHz

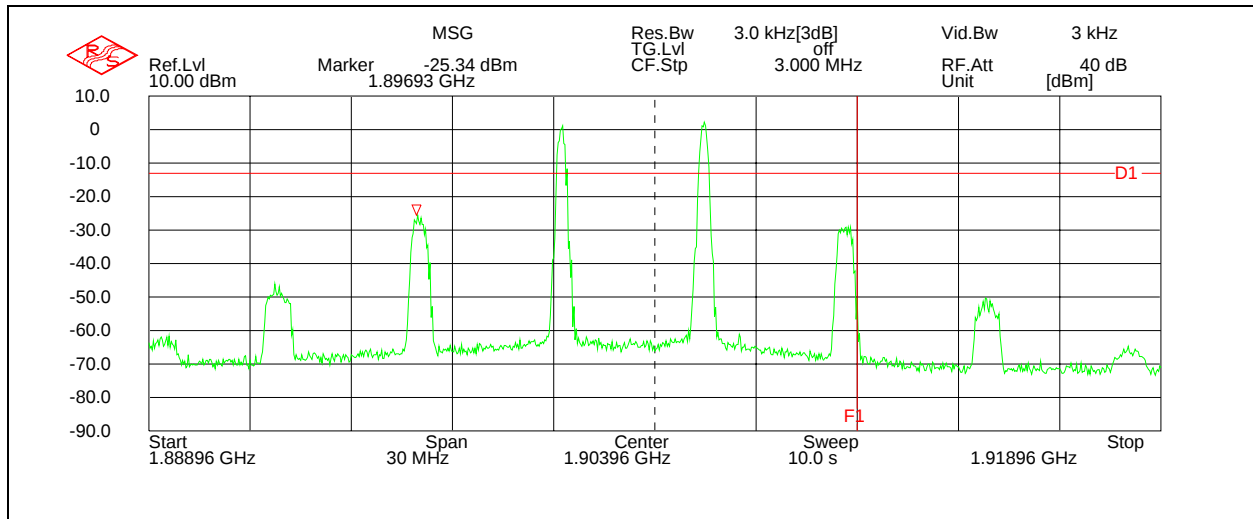


Figure 52: Spurious Emissions - Uplink GSM High Channel – In Band

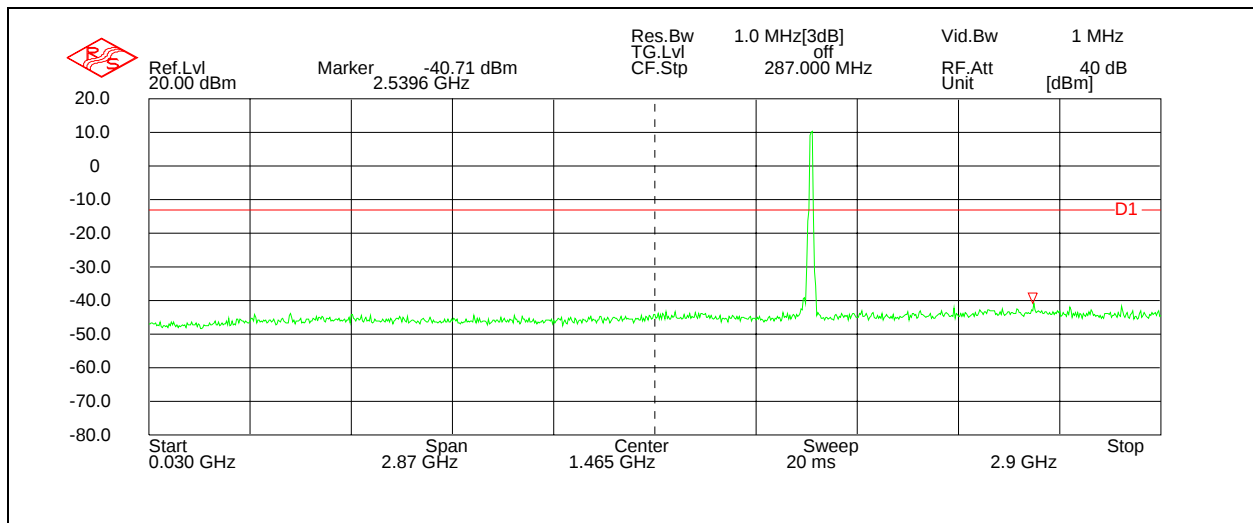


Figure 53: Spurious Emissions - Uplink GSM High Channel – 30 MHz to 2.9 GHz

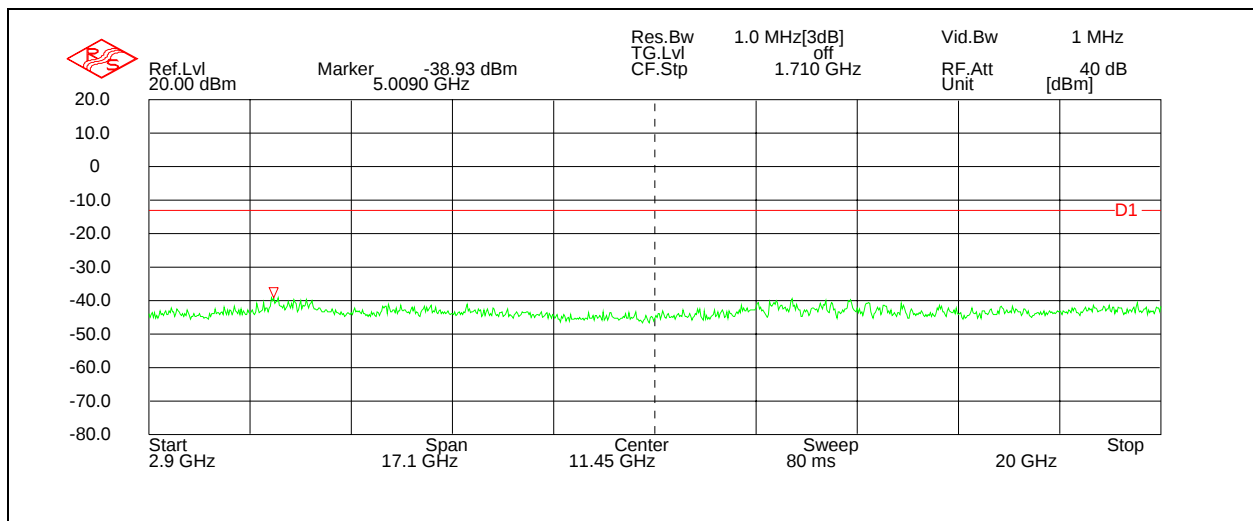


Figure 54: Spurious Emissions - Uplink GSM High Channel – 2.9 to 20 GHz

3.4 CDMA Downlink

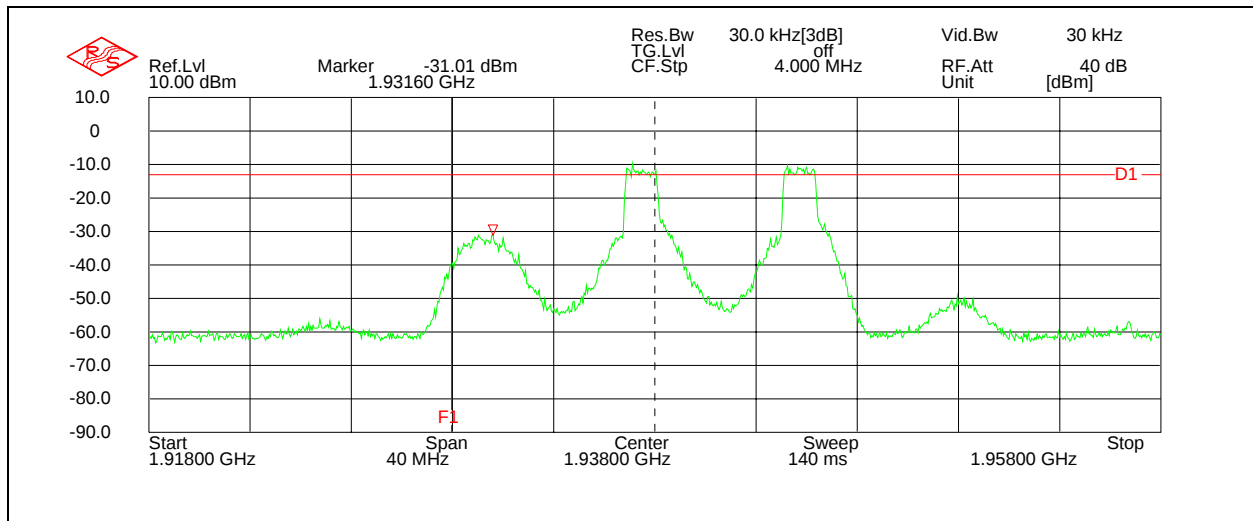


Figure 55: Spurious Emissions - Downlink CDMA Low Channel – In Band

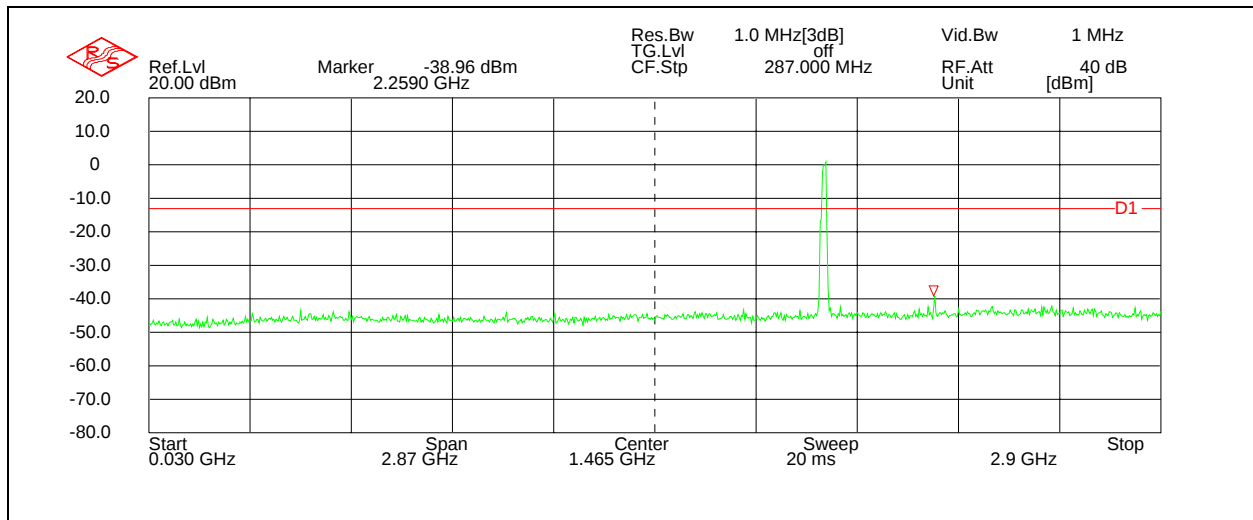


Figure 56: Spurious Emissions - Downlink CDMA Low Channel – 30 MHz to 2.9 GHz

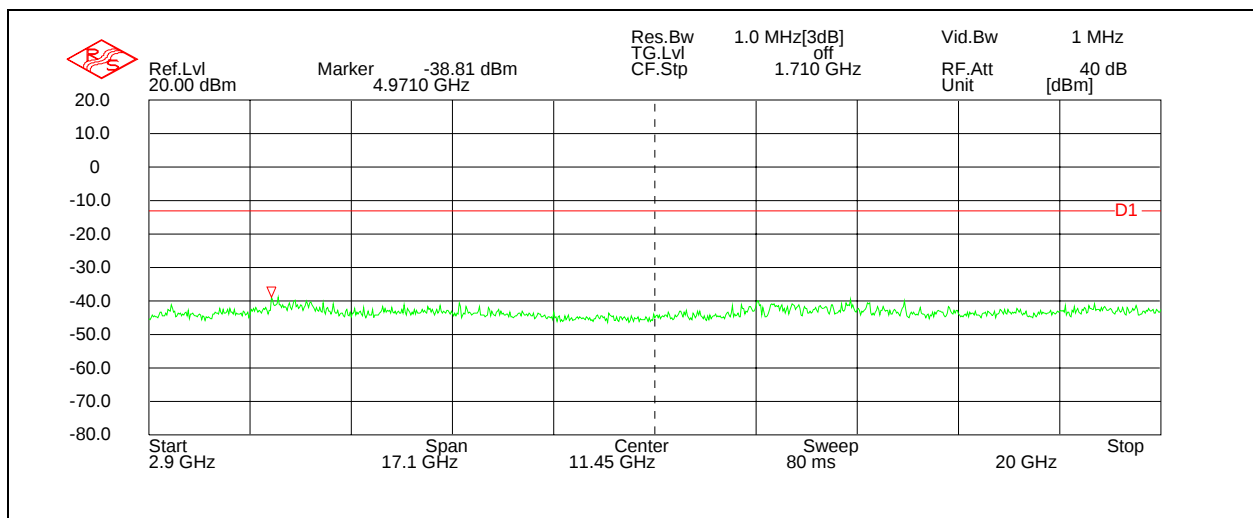


Figure 57: Spurious Emissions - Downlink CDMA Low Channel – 2.9 to 20 GHz

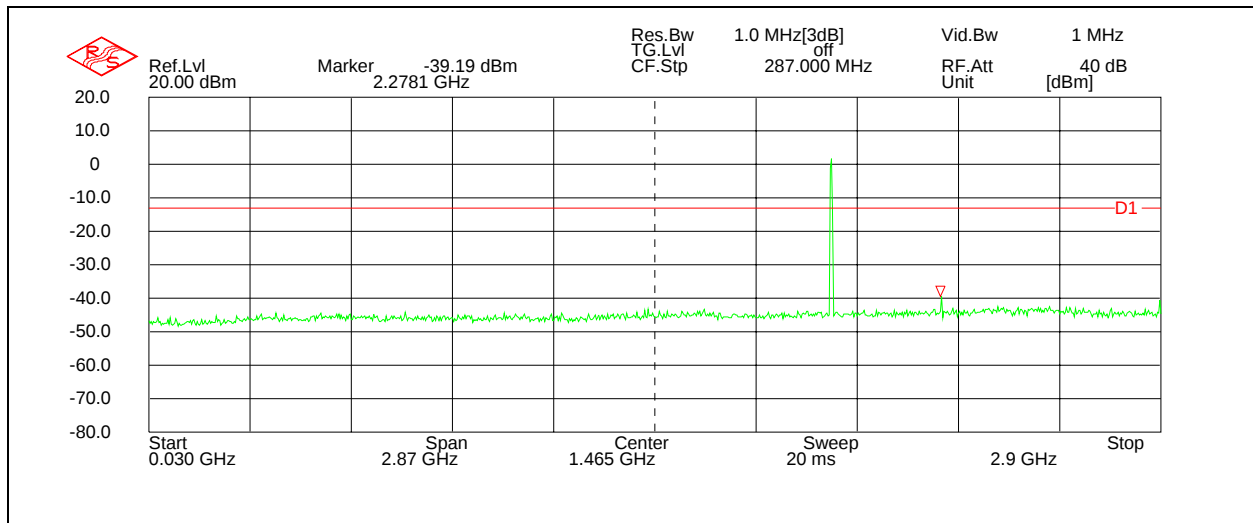


Figure 58: Spurious Emissions - Downlink CDMA Mid Channel – 30 MHz to 2.9 GHz

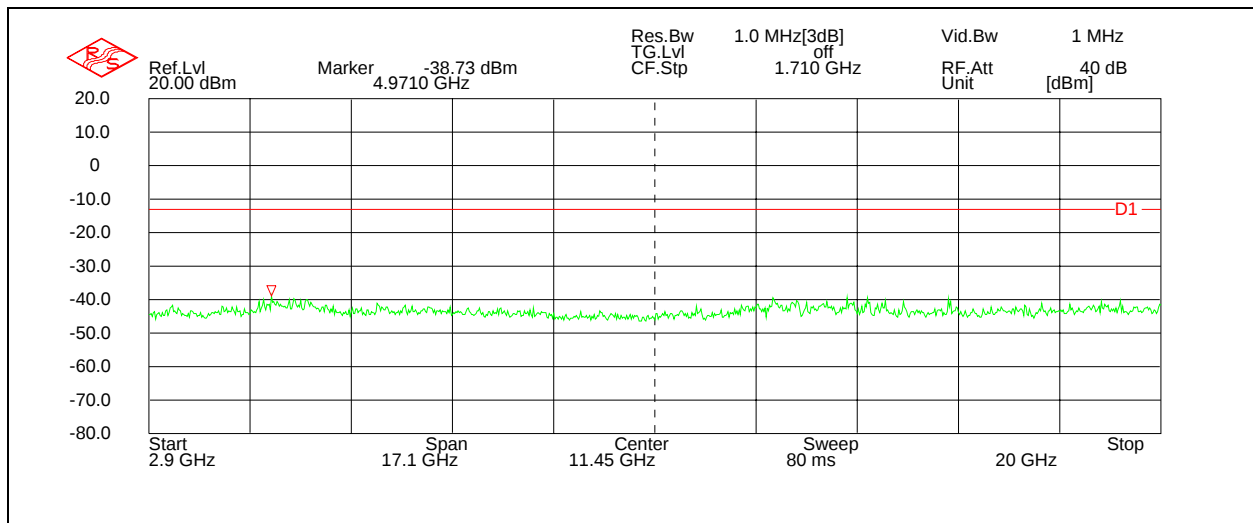


Figure 59: Spurious Emissions - Downlink CDMA Mid Channel – 2.9 to 20 GHz

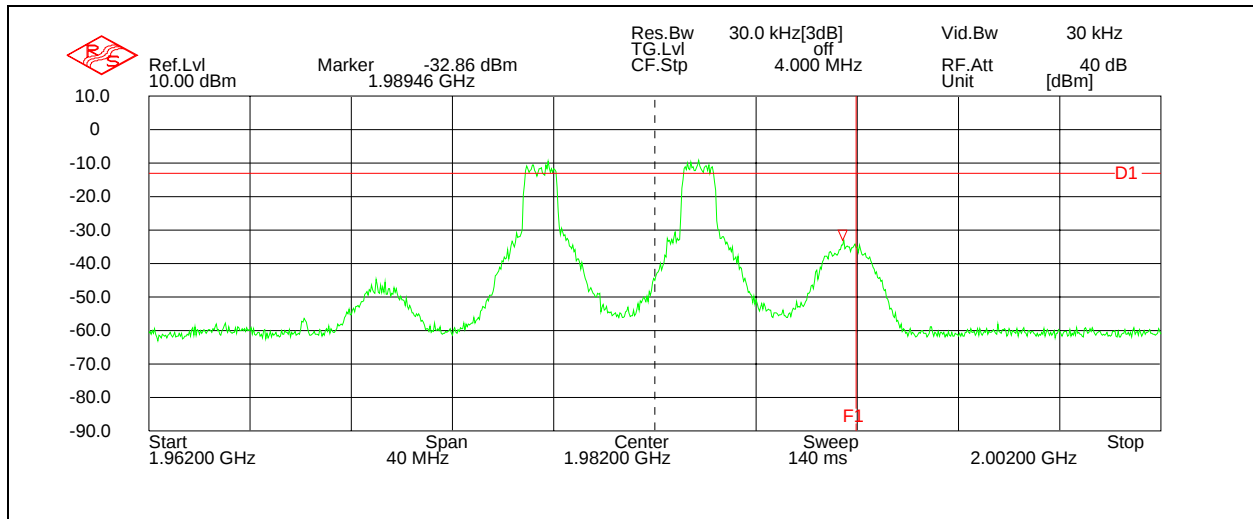


Figure 60: Spurious Emissions - Downlink CDMA High Channel – In Band

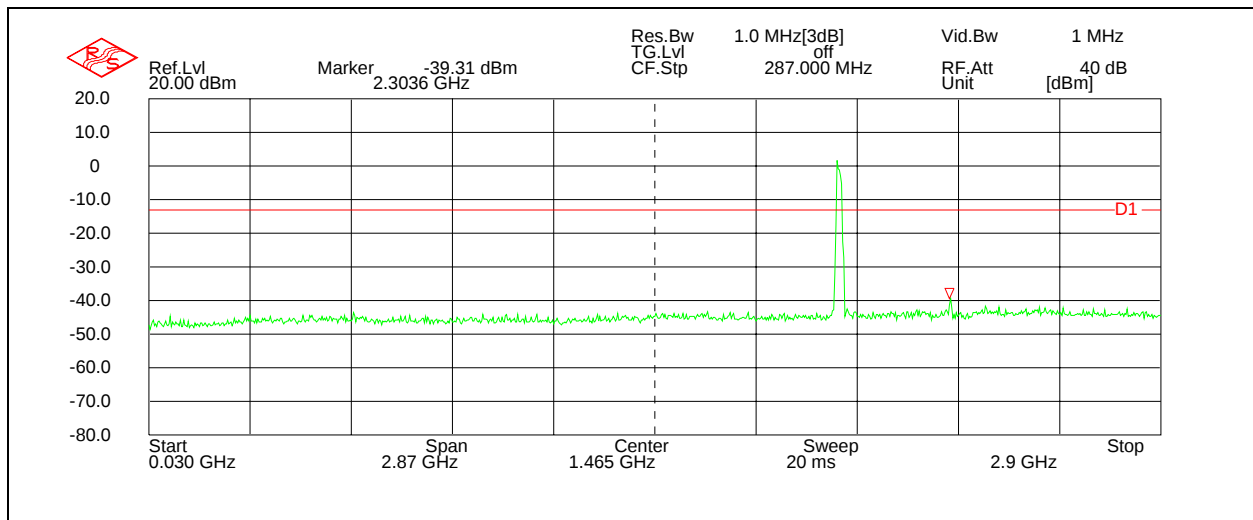


Figure 61: Spurious Emissions - Downlink CDMA High Channel – 30 MHz to 2.9 GHz

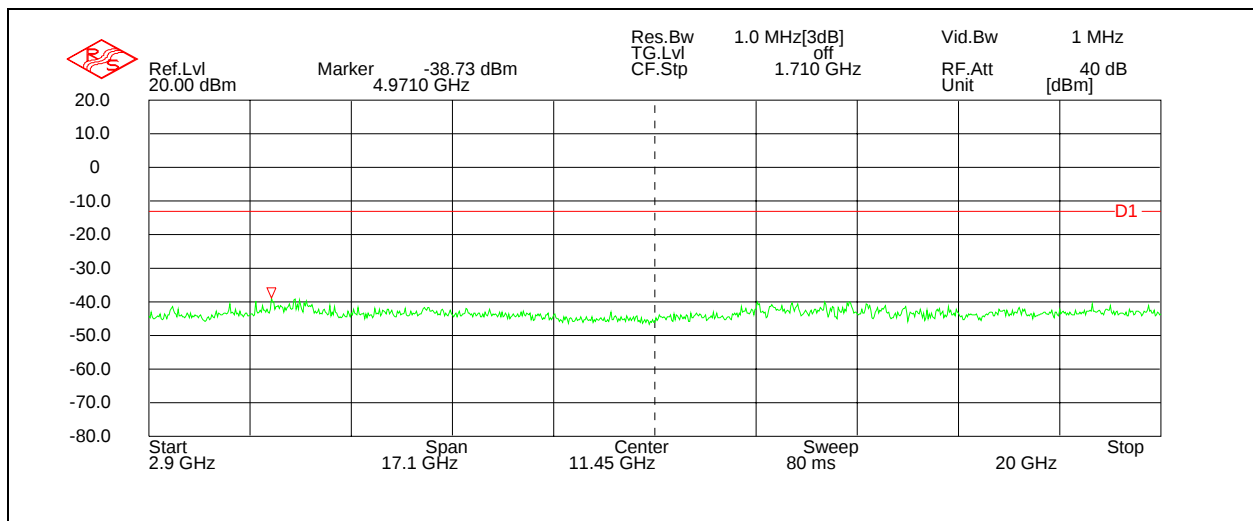


Figure 62: Spurious Emissions - Downlink CDMA High Channel – 2.9 to 20 GHz

3.5 TDMA Downlink

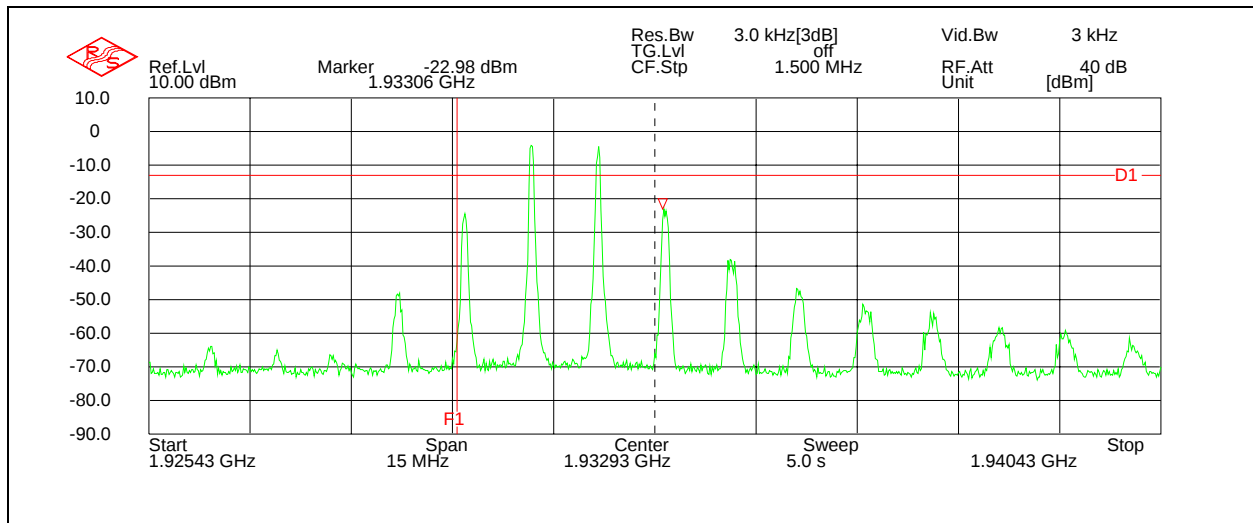


Figure 63: Spurious Emissions - Downlink TDMA Low Channel – In Band

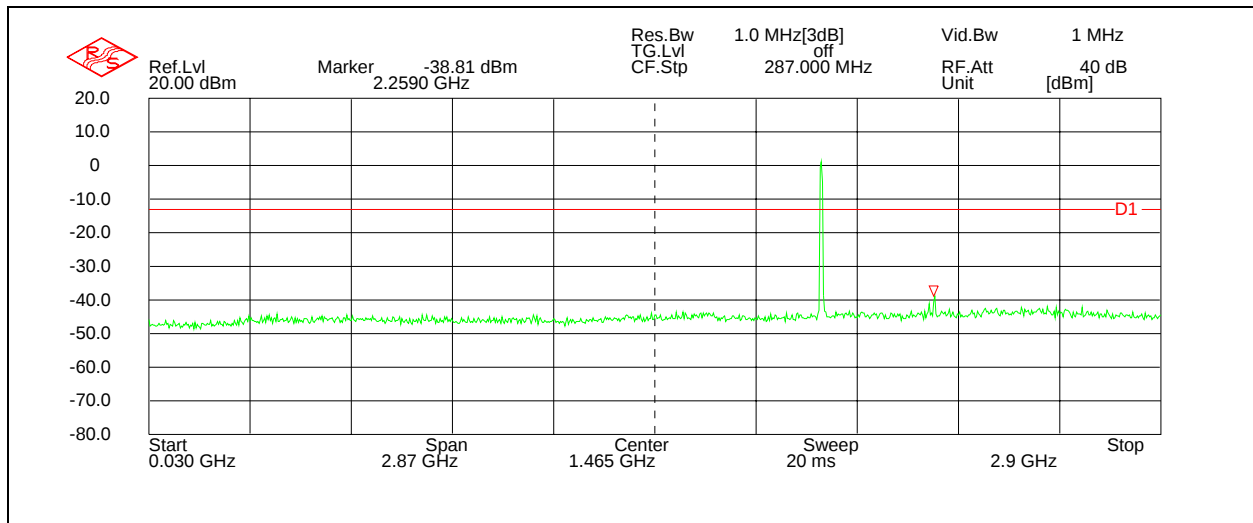


Figure 64: Spurious Emissions - Downlink TDMA Low Channel – 30 MHz to 2.9 GHz

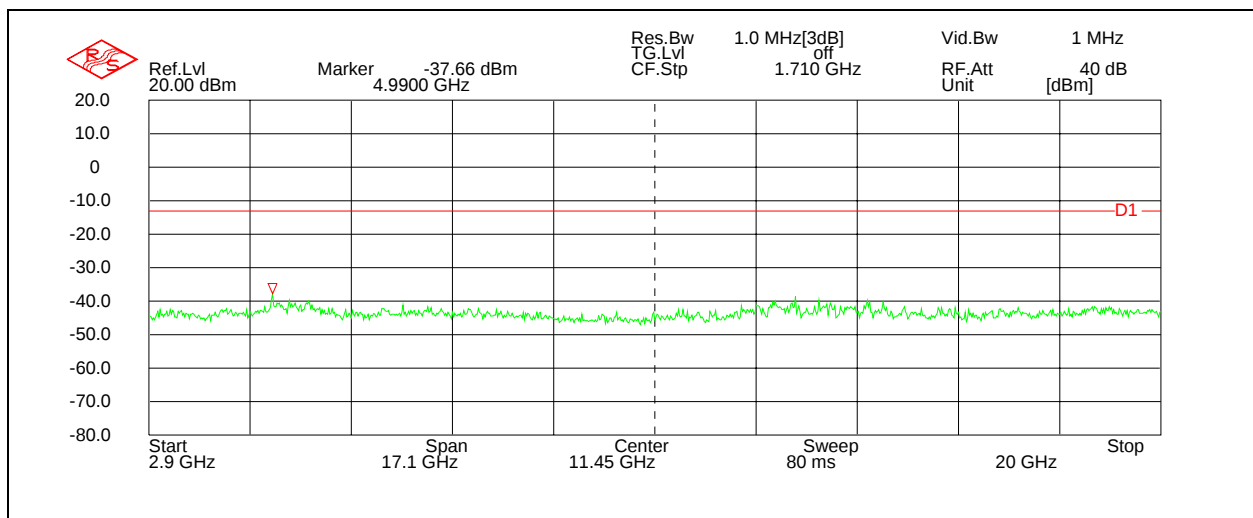
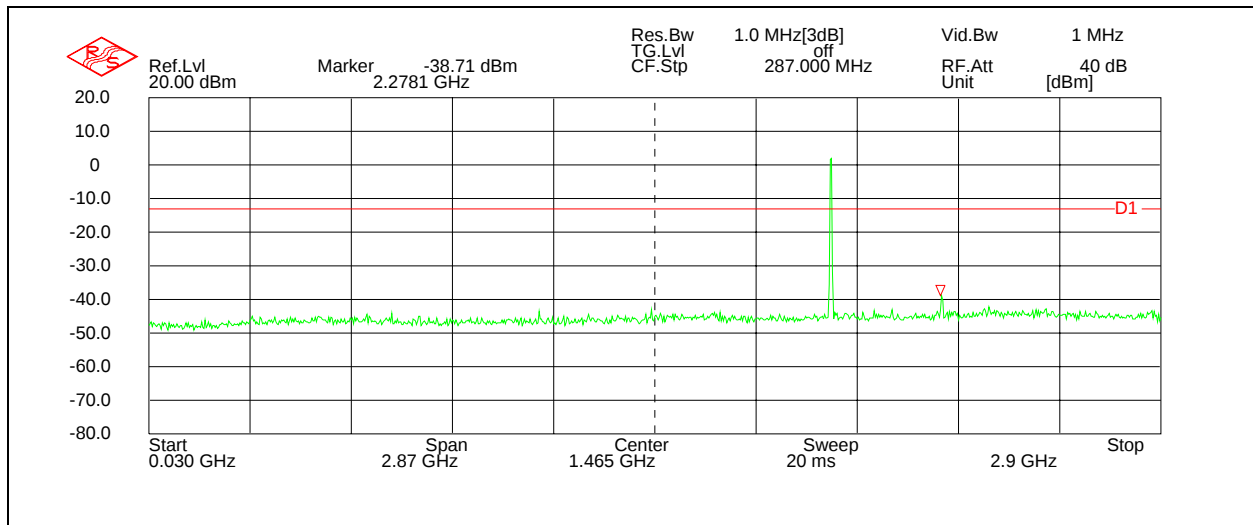
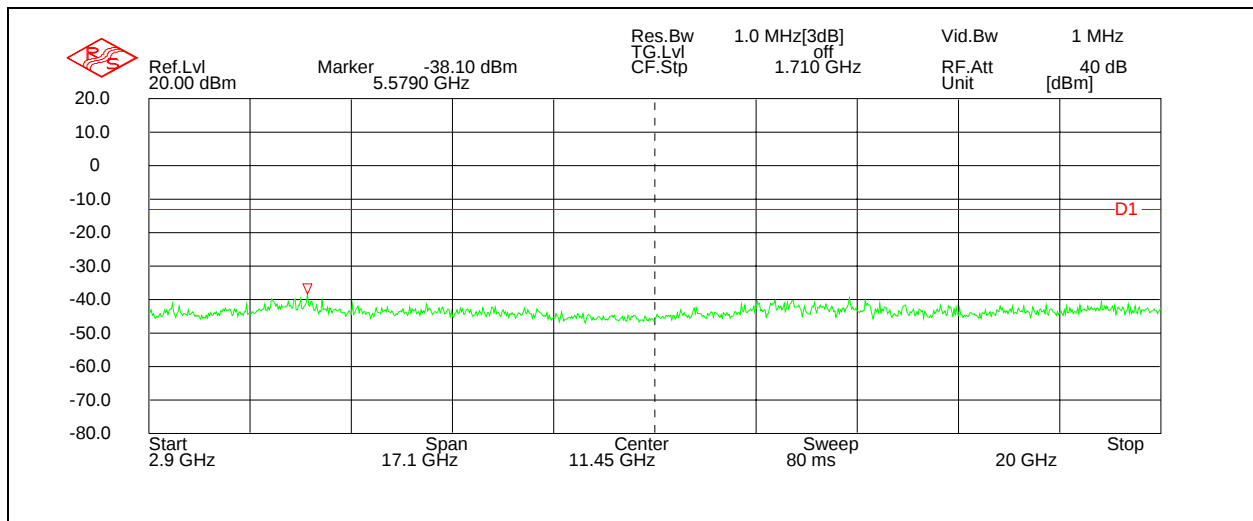


Figure 65: Spurious Emissions - Downlink TDMA Low Channel – 2.9 to 20 GHz

**Figure 66: Spurious Emissions - Downlink TDMA Mid Channel – 30 MHz to 2.9 GHz****Figure 67: Spurious Emissions - Downlink TDMA Mid Channel – 2.9 to 20 GHz**

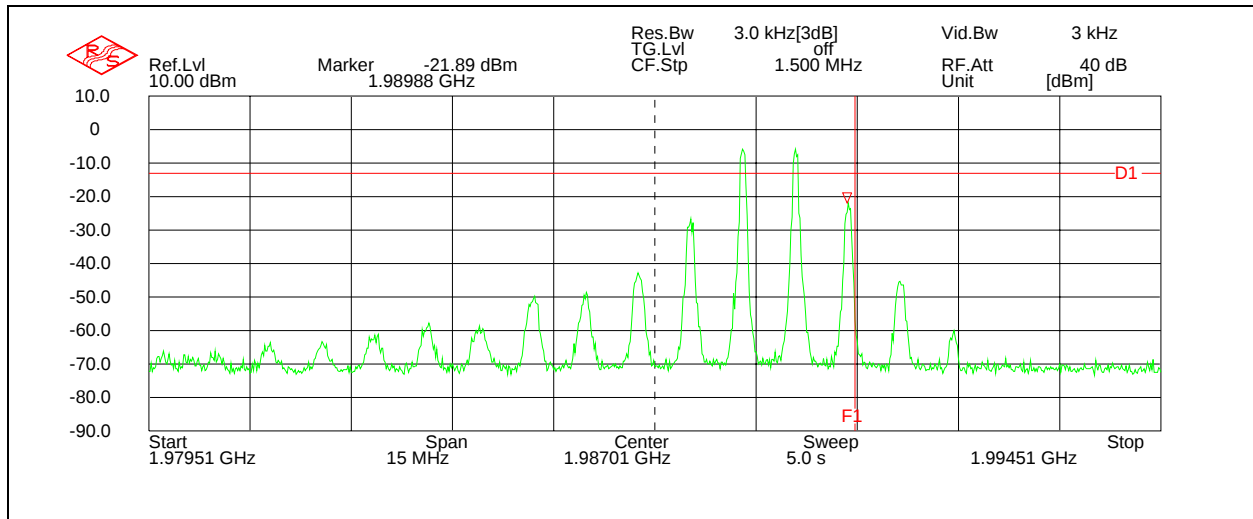


Figure 68: Spurious Emissions - Downlink TDMA High Channel – In Band

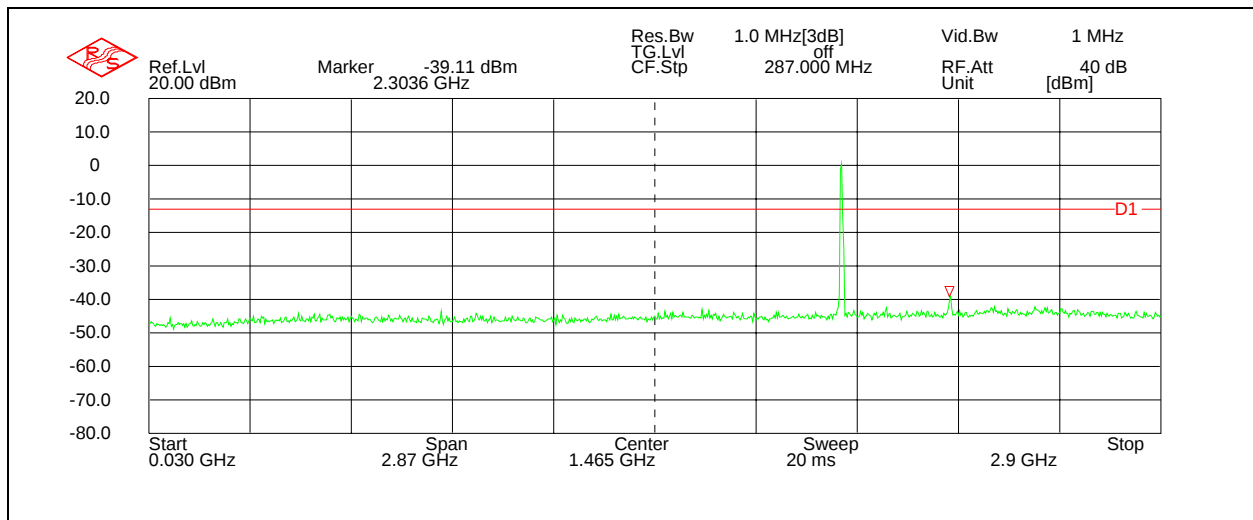


Figure 69: Spurious Emissions - Downlink TDMA High Channel – 30 MHz to 2.9 GHz

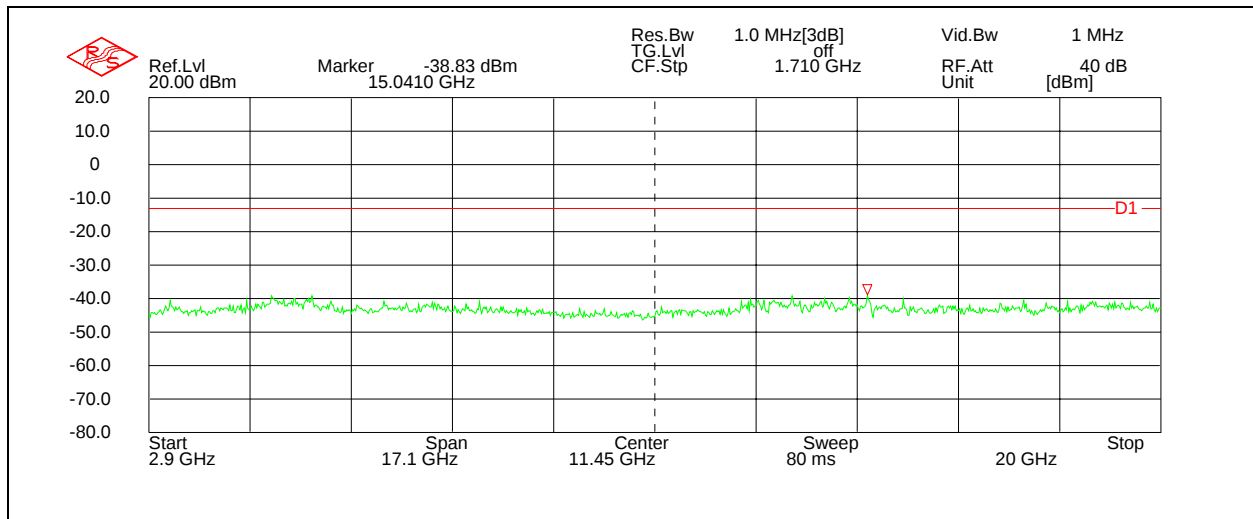
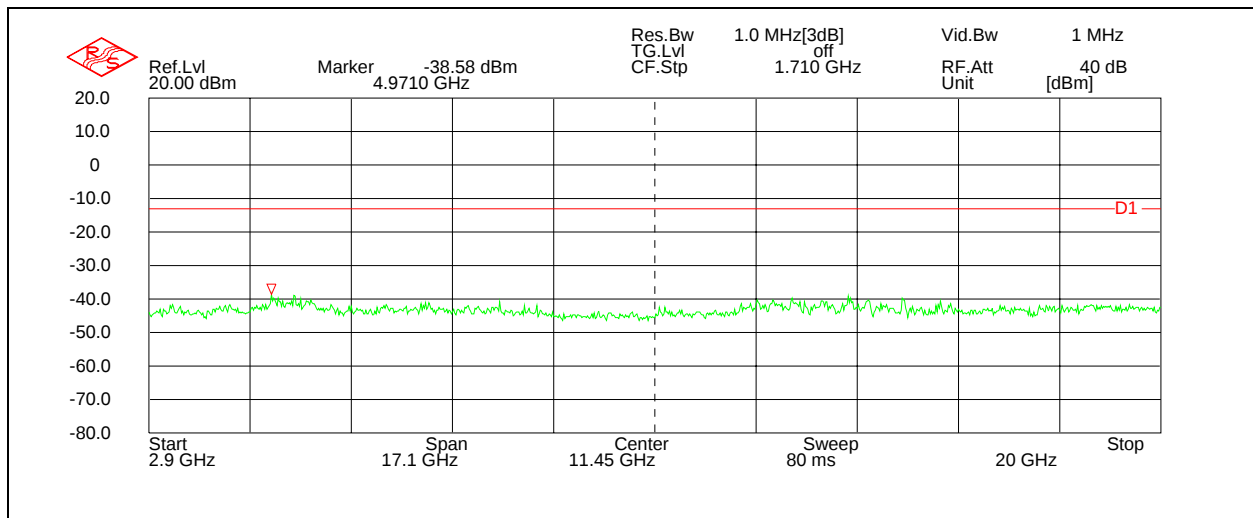
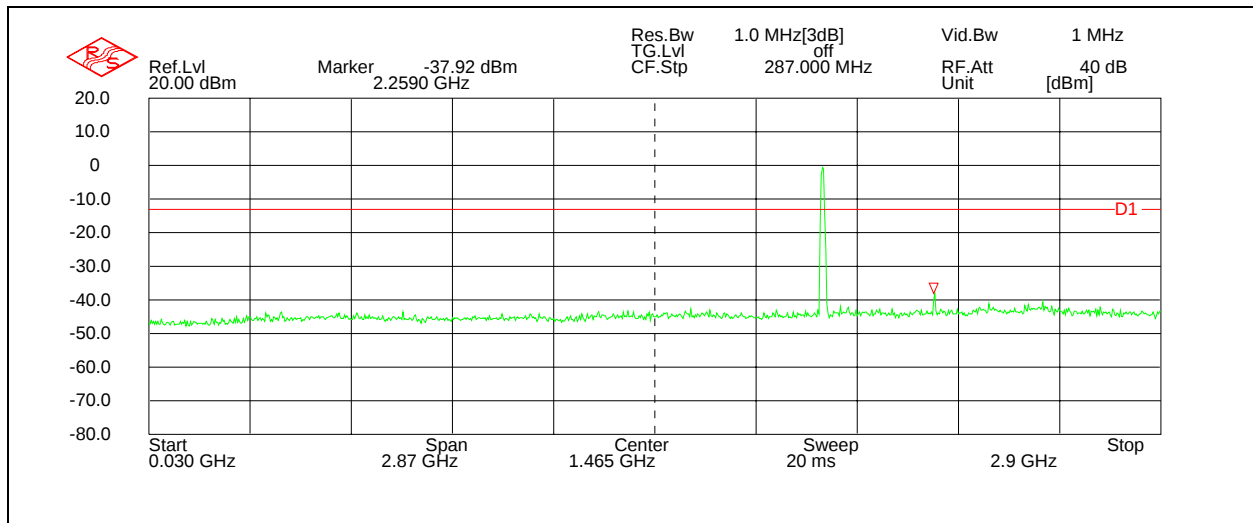
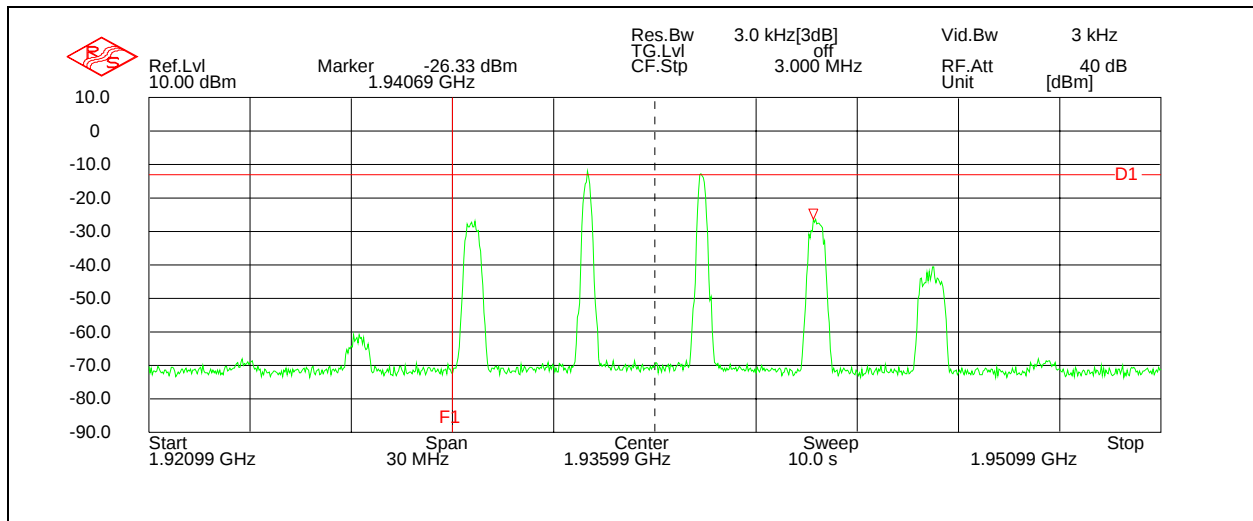
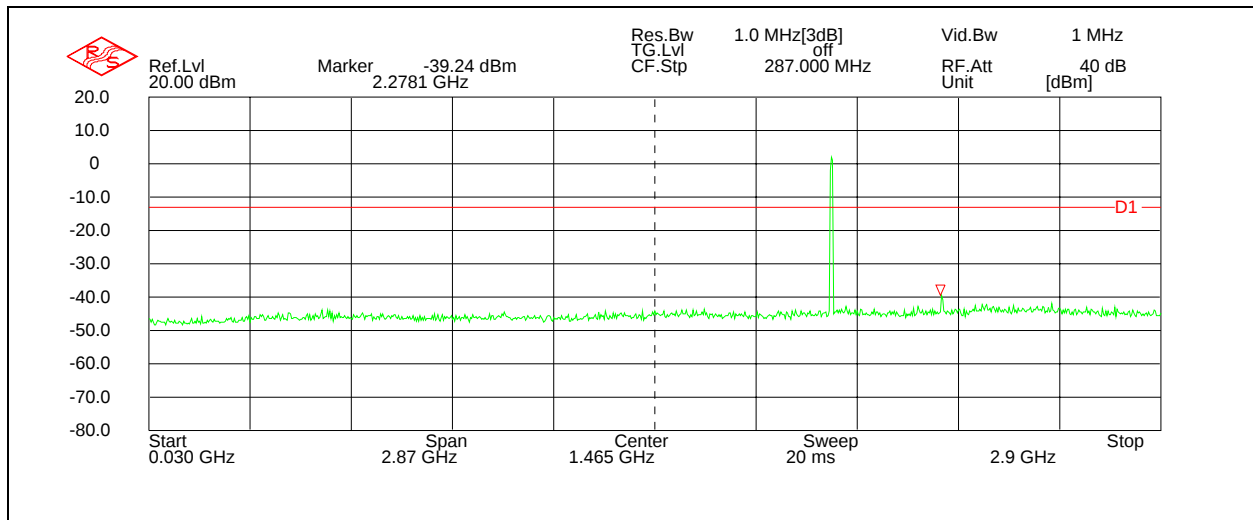
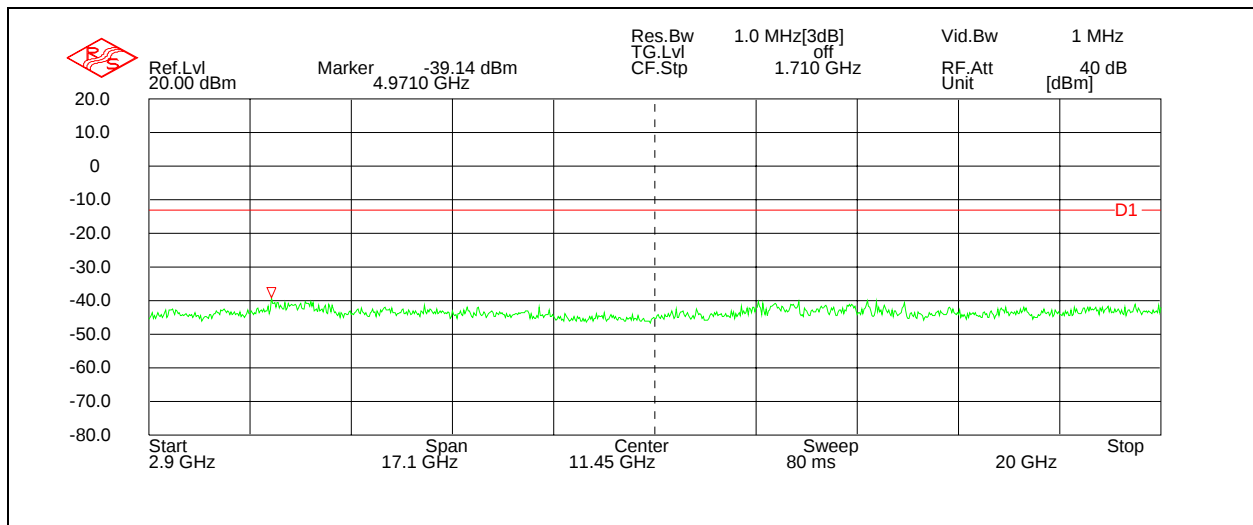


Figure 70: Spurious Emissions - Downlink TDMA High Channel – 2.9 to 20 GHz

3.6 GSM Downlink



**Figure 74: Spurious Emissions - Downlink GSM Mid Channel – 30 MHz to 2.9 GHz****Figure 75: Spurious Emissions - Downlink GSM Mid Channel – 2.9 to 20 GHz**

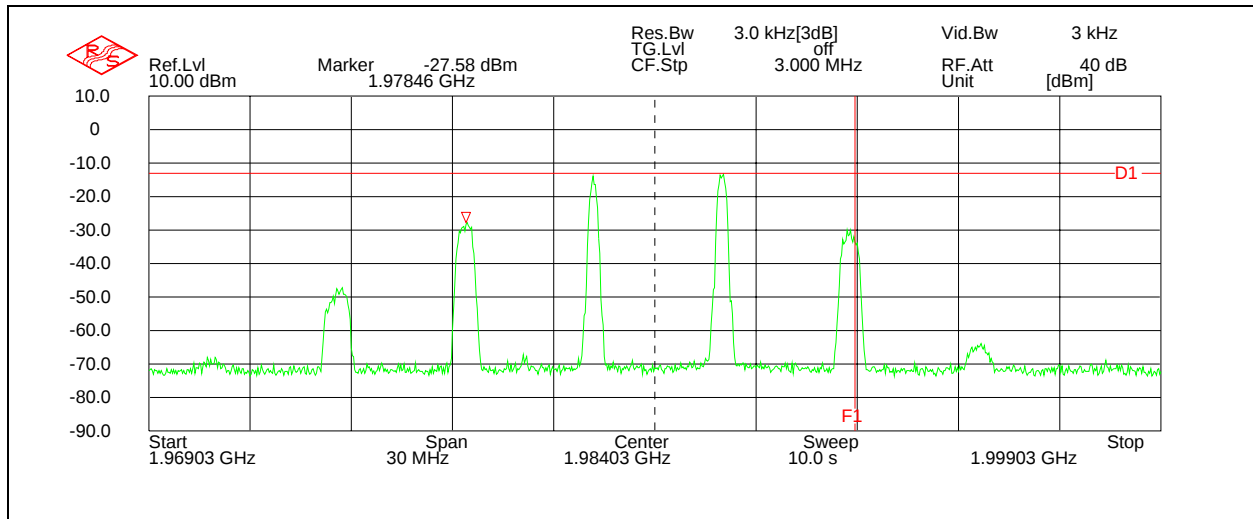


Figure 76: Spurious Emissions - Downlink GSM High Channel – In Band

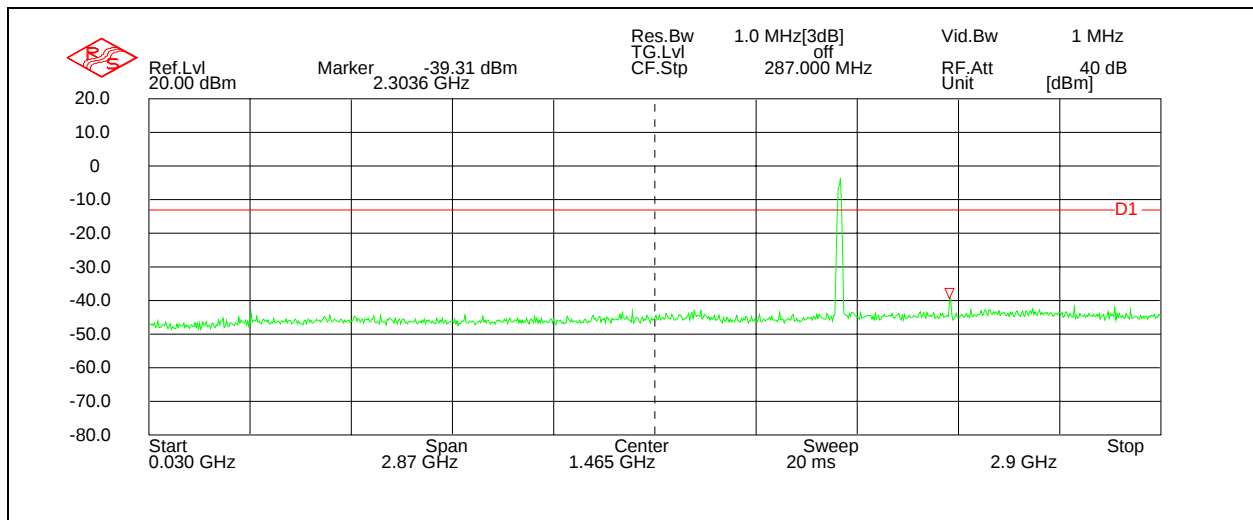


Figure 77: Spurious Emissions - Downlink GSM High Channel – 30 MHz to 2.9 GHz

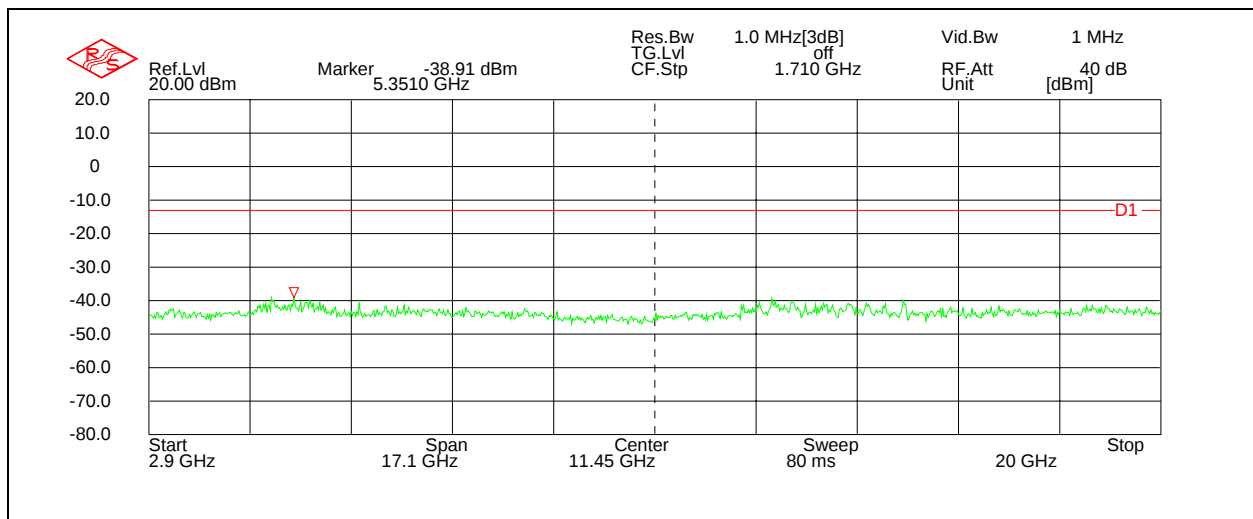


Figure 78: Spurious Emissions - Downlink GSM High Channel – 2.9 to 20 GHz

3.0 Band-edge

4.1 CDMA Uplink

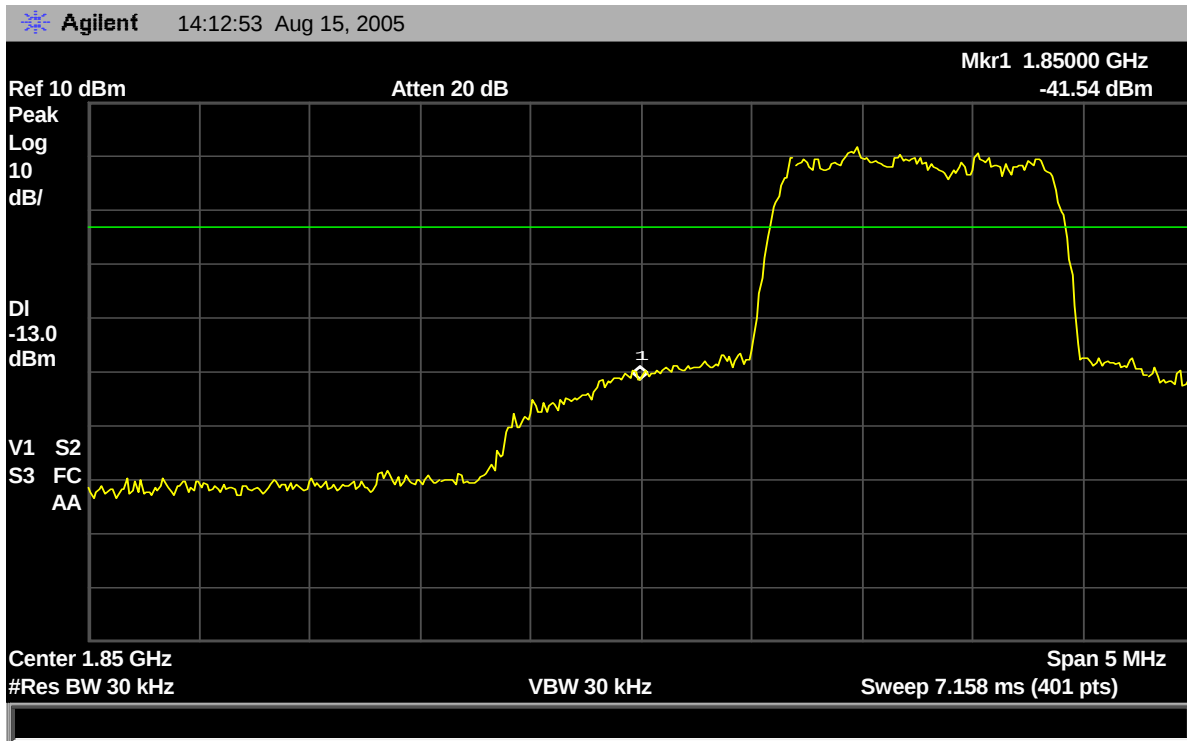


Figure 79: Band-Edge Uplink CDMA Low Channel

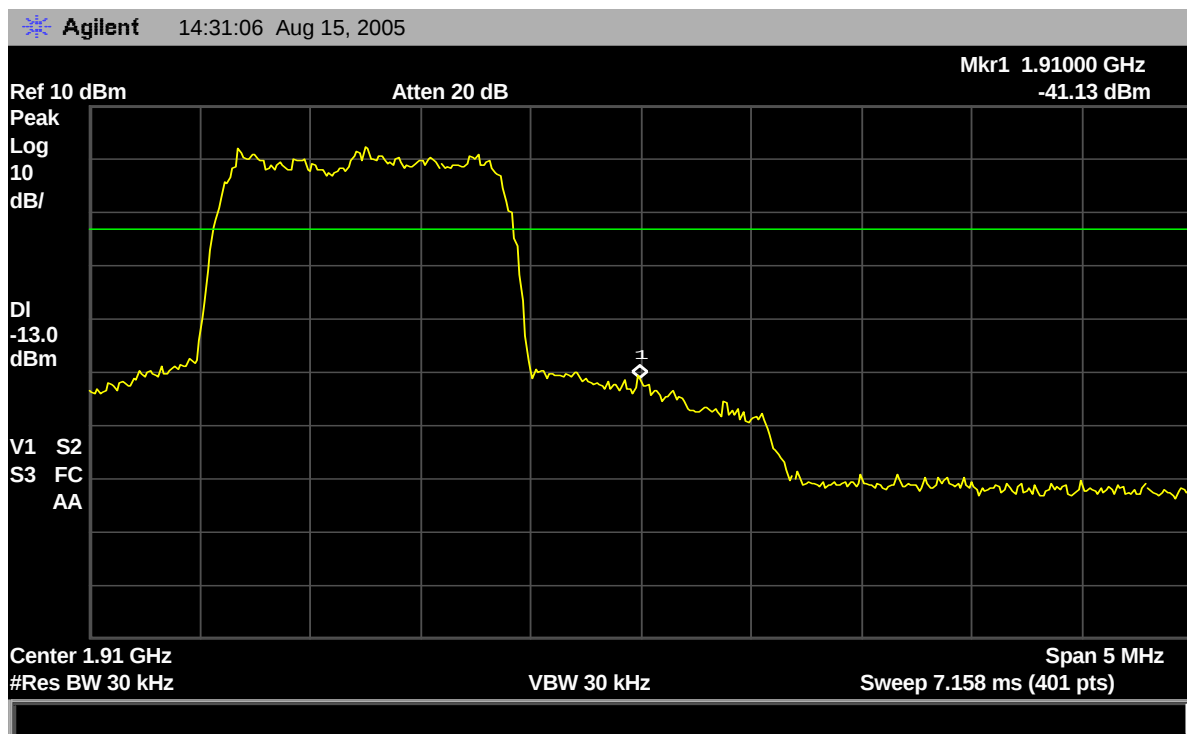


Figure 80: Band-Edge Uplink CDMA High Channel

4.2 TDMA Uplink

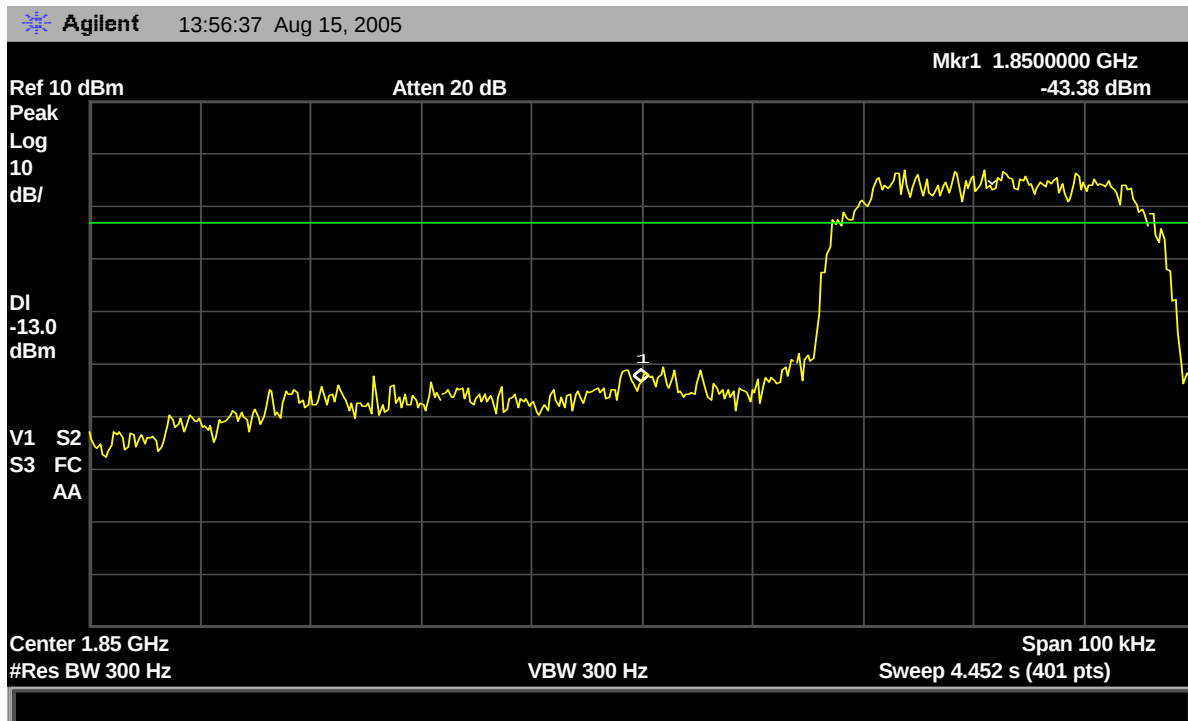


Figure 81: Band-Edge Uplink TDMA Low Channel

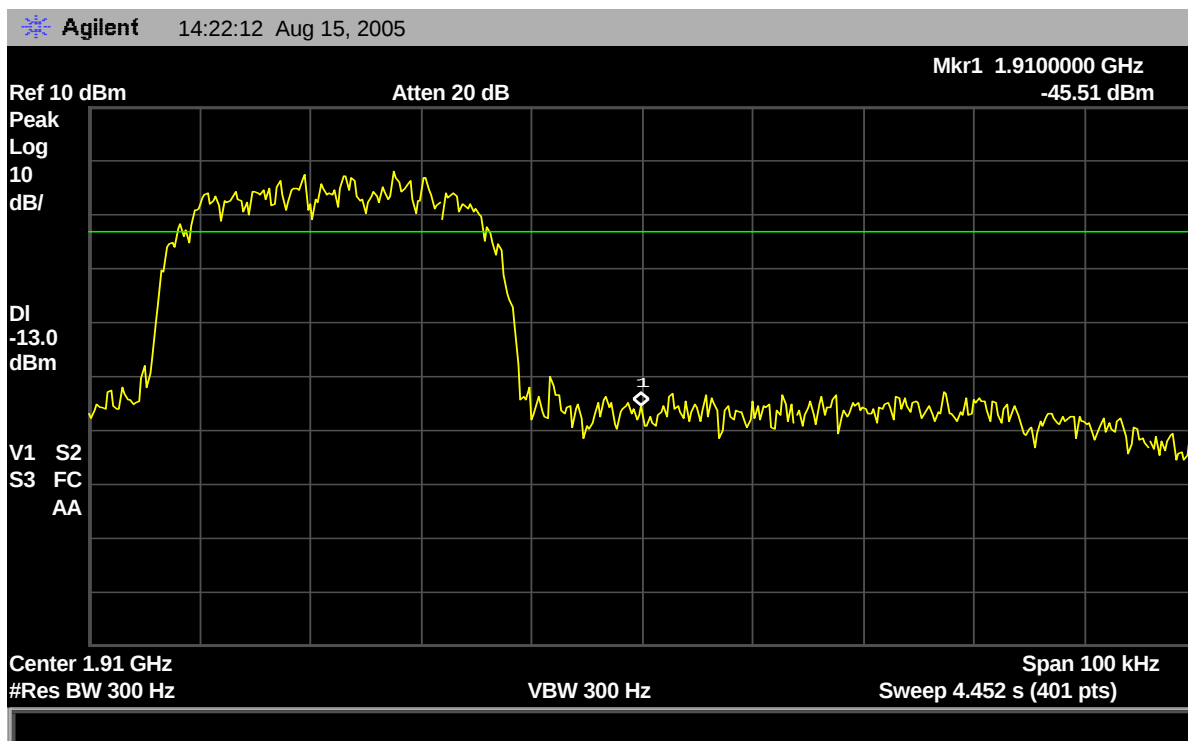


Figure 82: Band-Edge Uplink TDMA High Channel

4.3 GSM Uplink

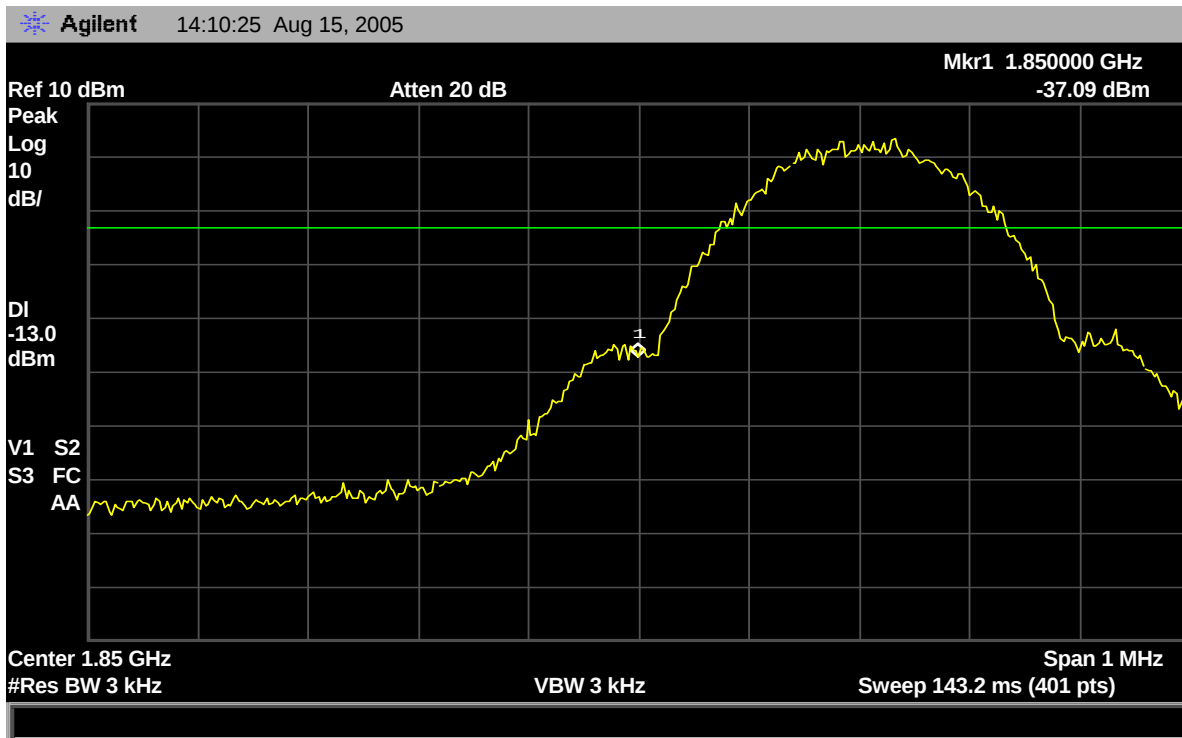


Figure 83: Band-Edge Uplink GSM Low Channel

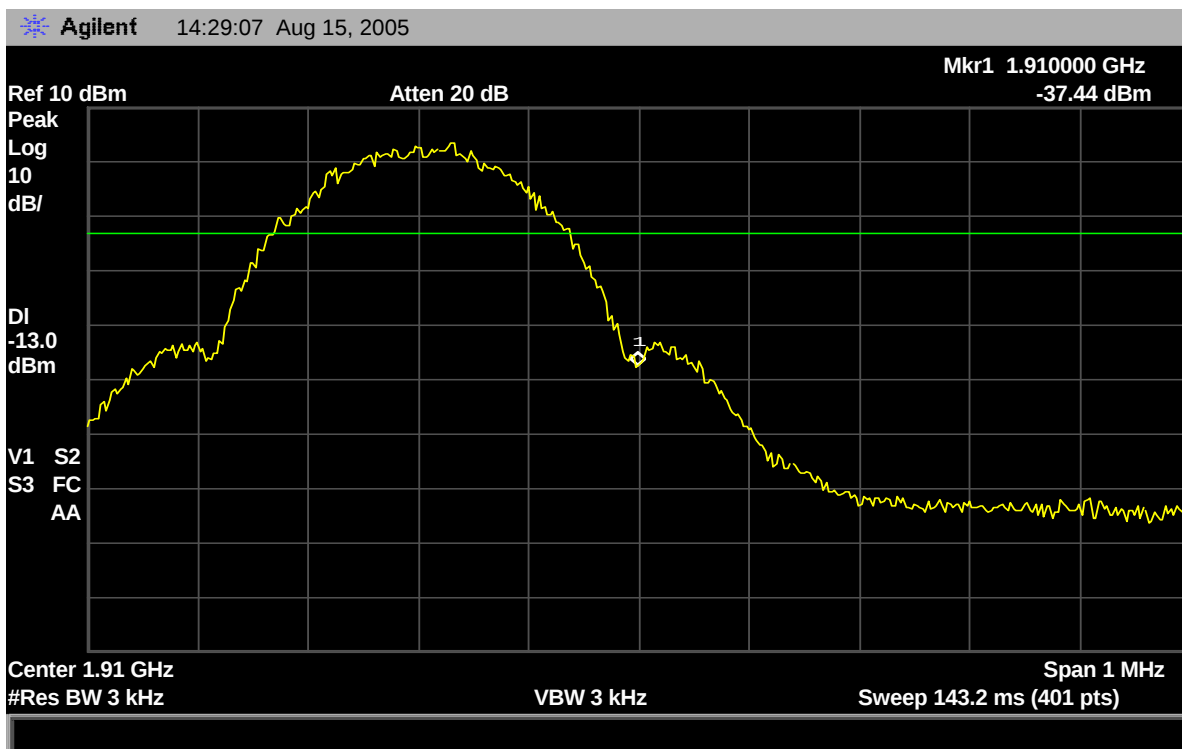


Figure 84: Band-Edge Uplink GSM High Channel

4.4 CDMA Downlink

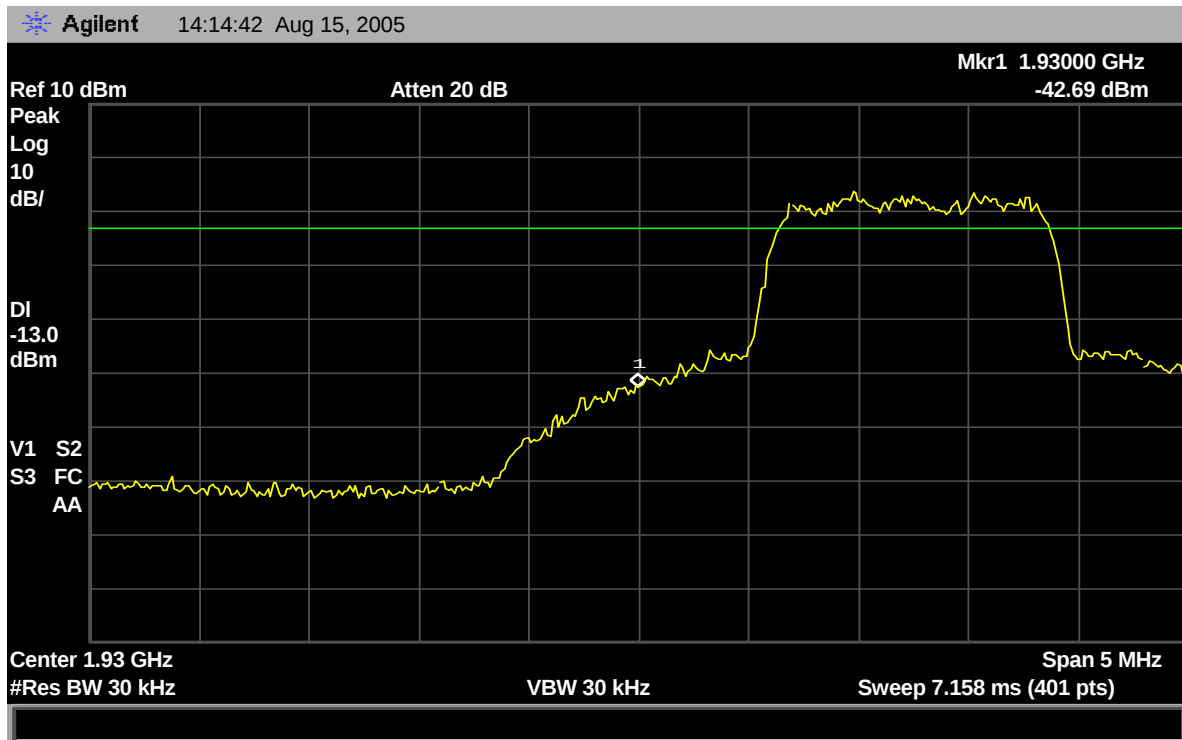


Figure 85: Band-Edge Downlink CDMA Low Channel

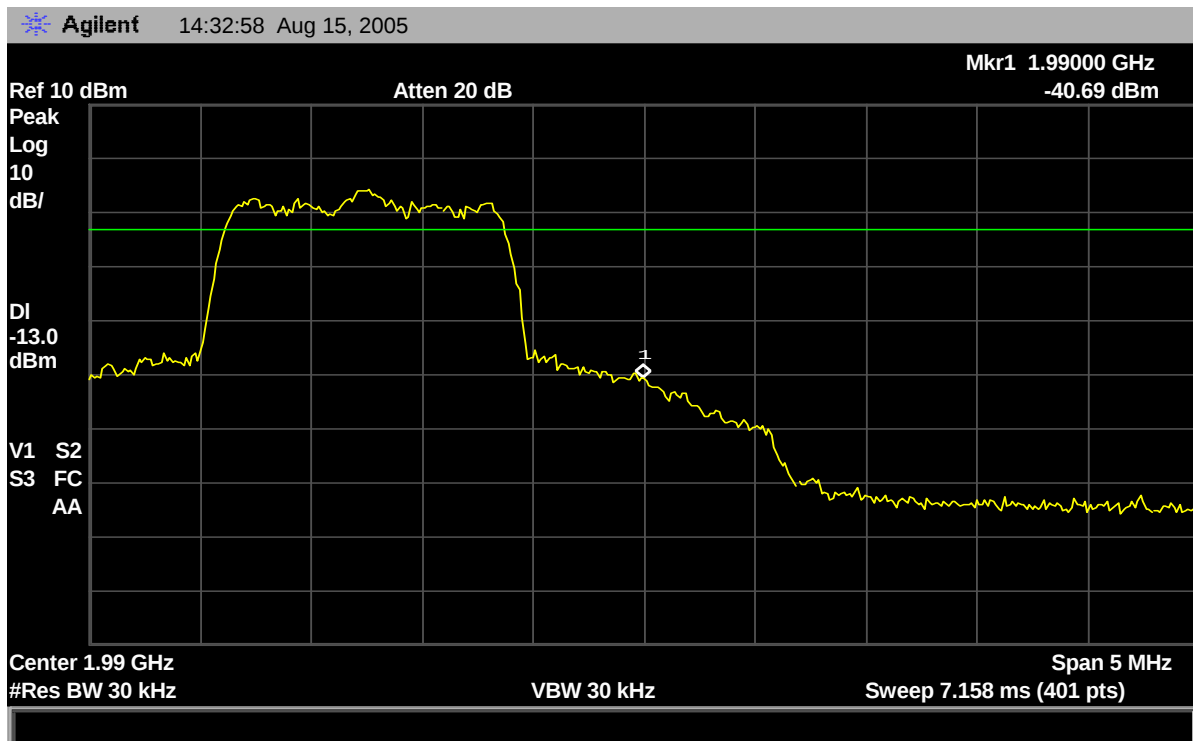


Figure 86: Band-Edge Downlink CDMA High Channel

4.5 TDMA Downlink

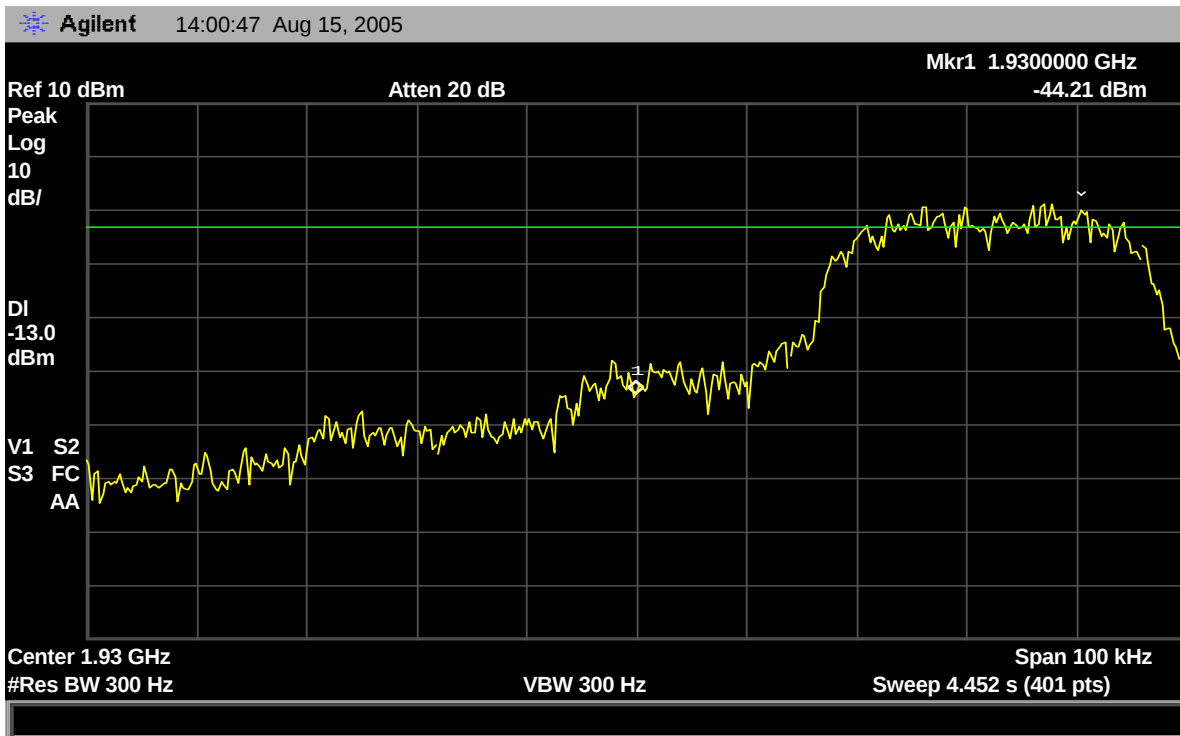


Figure 87: Band-Edge Downlink TDMA Low Channel

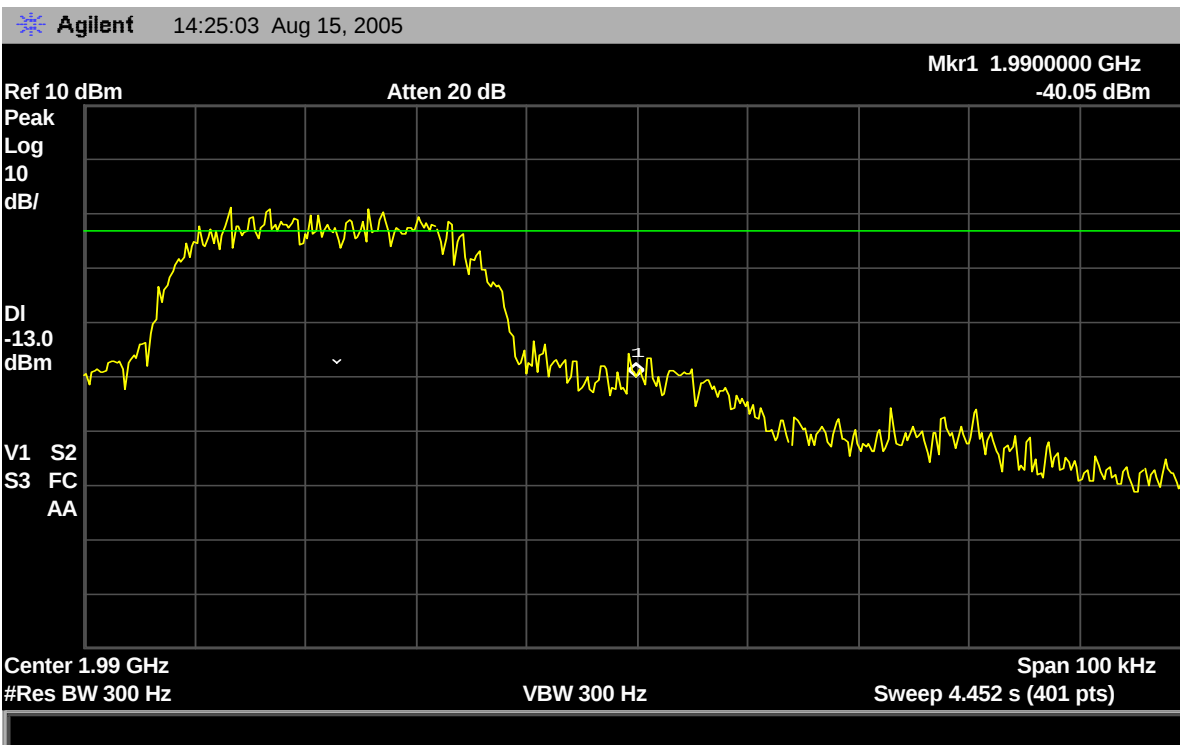


Figure 88: Band-Edge Downlink TDMA High Channel

4.6 GSM Downlink

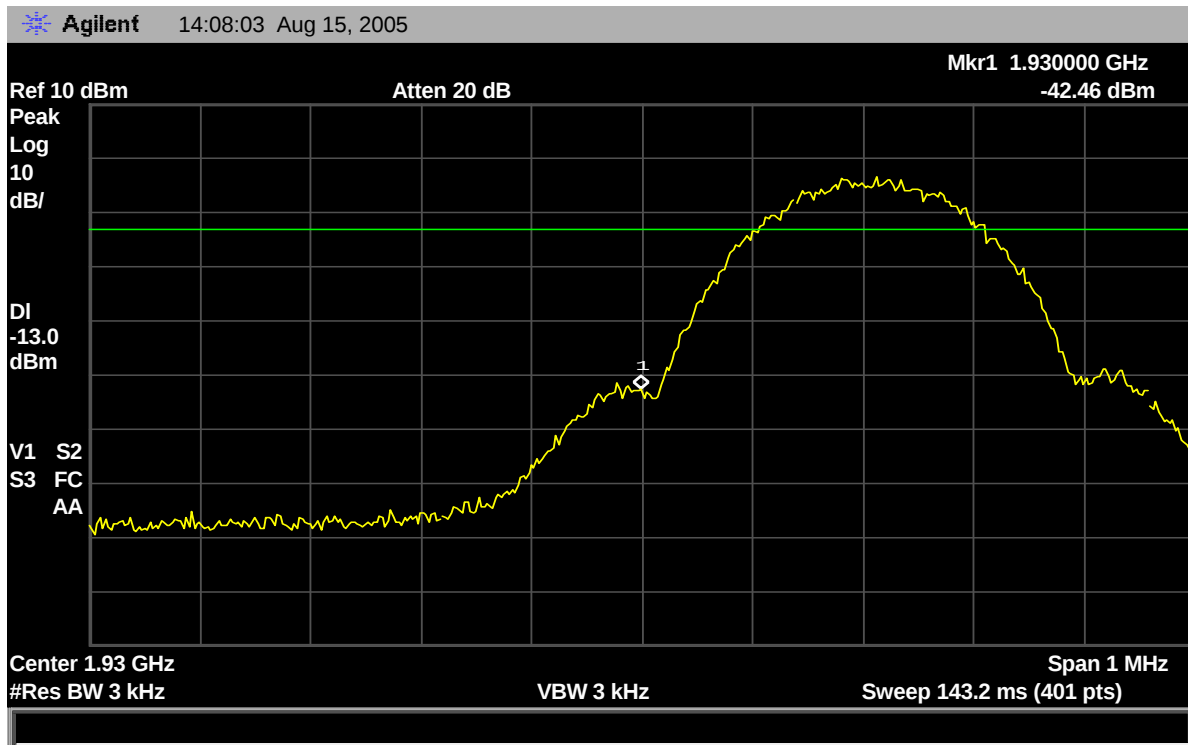


Figure 89: Band-Edge Downlink GSM Low Channel

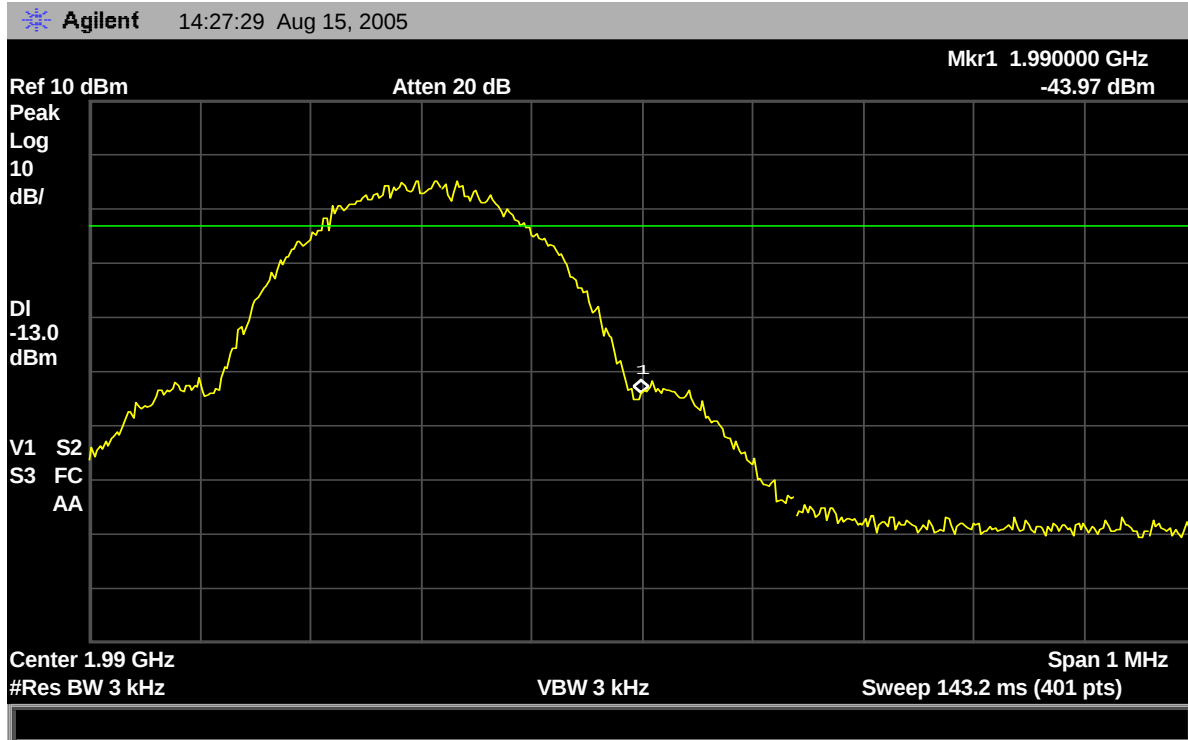


Figure 90: Band-Edge Downlink GSM High Channel

END REPORT