



Appendix B

GSM 850 & 1900



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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

| Band | Channel | Slot | Conducted Power (dBm) | ERP (dBm) | Limit(dBm) | Verdict |
|----------|---------|------|-----------------------|-----------|------------|---------|
| GSM850 | 128 | --- | 32.32 | 26.87 | 38.45 | PASS |
| GSM850 | 190 | --- | 32.25 | 26.8 | 38.45 | PASS |
| GSM850 | 251 | --- | 32.35 | 26.9 | 38.45 | PASS |
| EGPRS850 | 128 | 1 | 25.94 | 20.49 | 38.45 | PASS |
| EGPRS850 | 128 | 2 | 24.48 | 19.03 | 38.45 | PASS |
| EGPRS850 | 128 | 3 | 23.41 | 17.96 | 38.45 | PASS |
| EGPRS850 | 128 | 4 | 22.24 | 16.79 | 38.45 | PASS |
| EGPRS850 | 190 | 1 | 25.99 | 20.54 | 38.45 | PASS |
| EGPRS850 | 190 | 2 | 24.45 | 19 | 38.45 | PASS |
| EGPRS850 | 190 | 3 | 23.36 | 17.91 | 38.45 | PASS |
| EGPRS850 | 190 | 4 | 22.24 | 16.79 | 38.45 | PASS |
| EGPRS850 | 251 | 1 | 25.79 | 20.34 | 38.45 | PASS |
| EGPRS850 | 251 | 2 | 24.21 | 18.76 | 38.45 | PASS |
| EGPRS850 | 251 | 3 | 23.11 | 17.66 | 38.45 | PASS |
| EGPRS850 | 251 | 4 | 21.99 | 16.54 | 38.45 | PASS |

| Band | Channel | Slot | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|-----------|---------|------|-----------------------|------------|------------|---------|
| GSM1900 | 512 | --- | 26.77 | 28.17 | 33.00 | PASS |
| GSM1900 | 661 | --- | 26.84 | 28.24 | 33.00 | PASS |
| GSM1900 | 810 | --- | 27.11 | 28.51 | 33.00 | PASS |
| EGPRS1900 | 512 | 1 | 23.87 | 25.27 | 33.00 | PASS |
| EGPRS1900 | 512 | 2 | 22.97 | 24.37 | 33.00 | PASS |
| EGPRS1900 | 512 | 3 | 20.89 | 22.29 | 33.00 | PASS |
| EGPRS1900 | 512 | 4 | 19.28 | 20.68 | 33.00 | PASS |
| EGPRS1900 | 661 | 1 | 24.12 | 25.52 | 33.00 | PASS |
| EGPRS1900 | 661 | 2 | 23.29 | 24.69 | 33.00 | PASS |
| EGPRS1900 | 661 | 3 | 21.21 | 22.61 | 33.00 | PASS |
| EGPRS1900 | 661 | 4 | 19.48 | 20.88 | 33.00 | PASS |
| EGPRS1900 | 810 | 1 | 24.07 | 25.47 | 33.00 | PASS |
| EGPRS1900 | 810 | 2 | 23.18 | 24.58 | 33.00 | PASS |
| EGPRS1900 | 810 | 3 | 21.16 | 22.56 | 33.00 | PASS |
| EGPRS1900 | 810 | 4 | 19.56 | 20.96 | 33.00 | PASS |



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Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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2. Peak-to-Average Ratio

2.1. Test Result

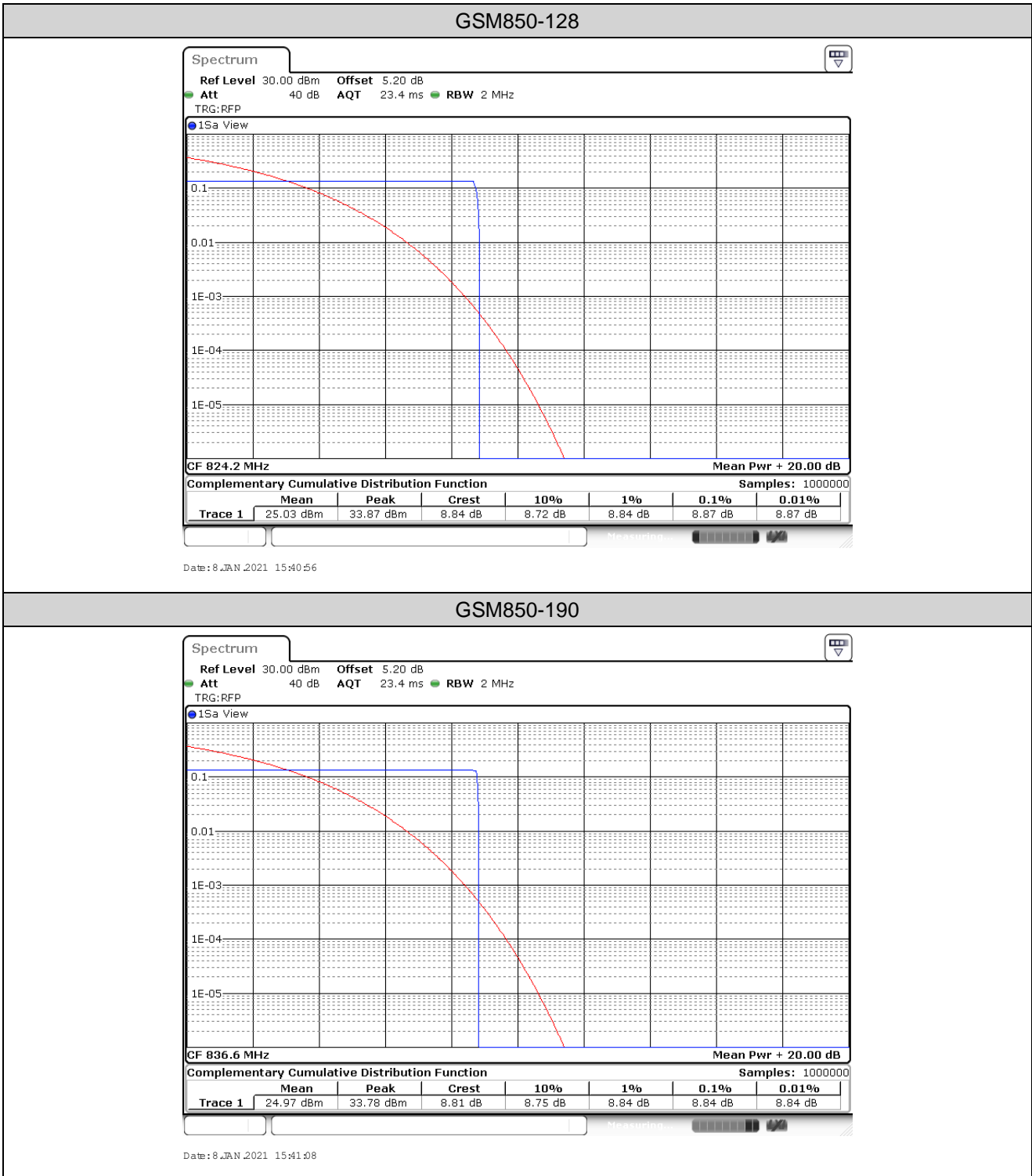
| Band | Channel | Result(dB) | Limit(dB) | Verdict |
|-----------|---------|------------|-----------|---------|
| GSM850 | 128 | 8.87 | 13 | PASS |
| GSM850 | 190 | 8.84 | 13 | PASS |
| GSM850 | 251 | 9.77 | 13 | PASS |
| EGPRS850 | 128 | 11.77 | 13 | PASS |
| EGPRS850 | 190 | 12.06 | 13 | PASS |
| EGPRS850 | 251 | 11.86 | 13 | PASS |
| GSM1900 | 512 | 9.8 | 13 | PASS |
| GSM1900 | 661 | 9.8 | 13 | PASS |
| GSM1900 | 810 | 8.96 | 13 | PASS |
| EGPRS1900 | 512 | 12 | 13 | PASS |
| EGPRS1900 | 661 | 11.94 | 13 | PASS |
| EGPRS1900 | 810 | 11.77 | 13 | PASS |



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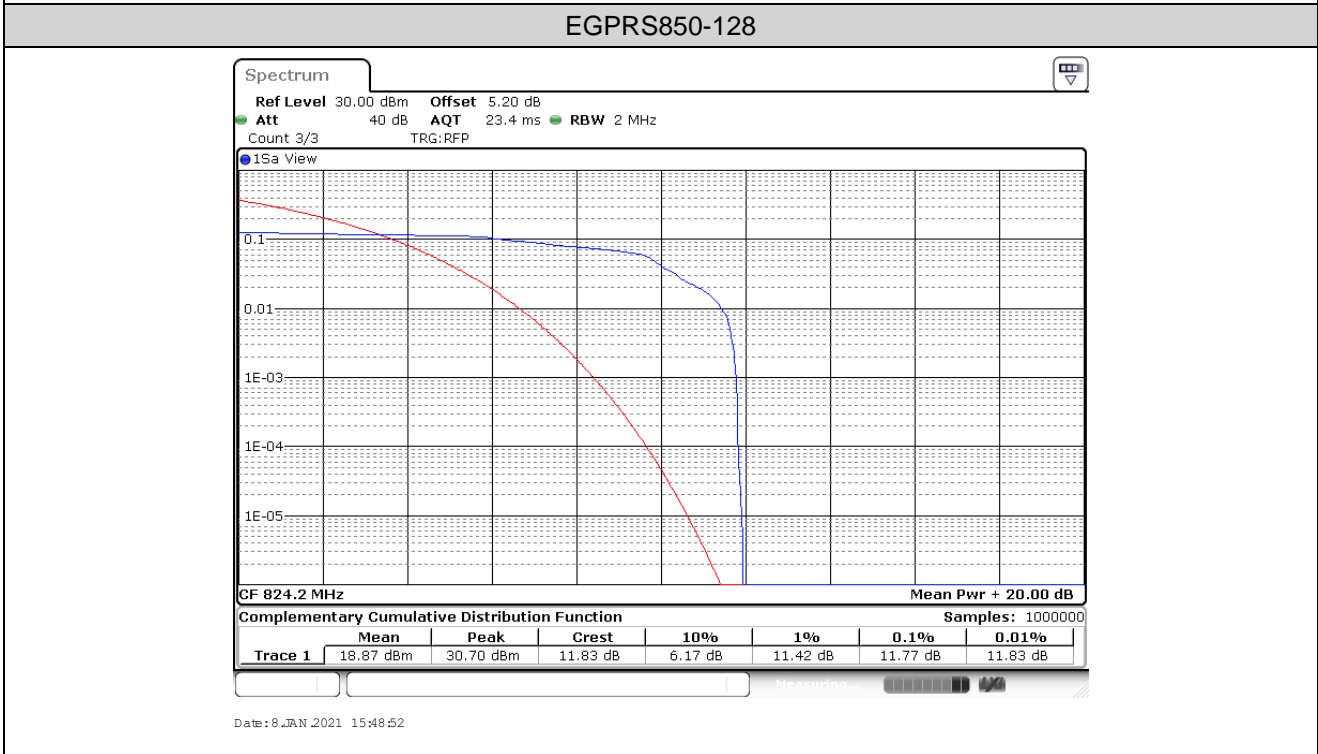
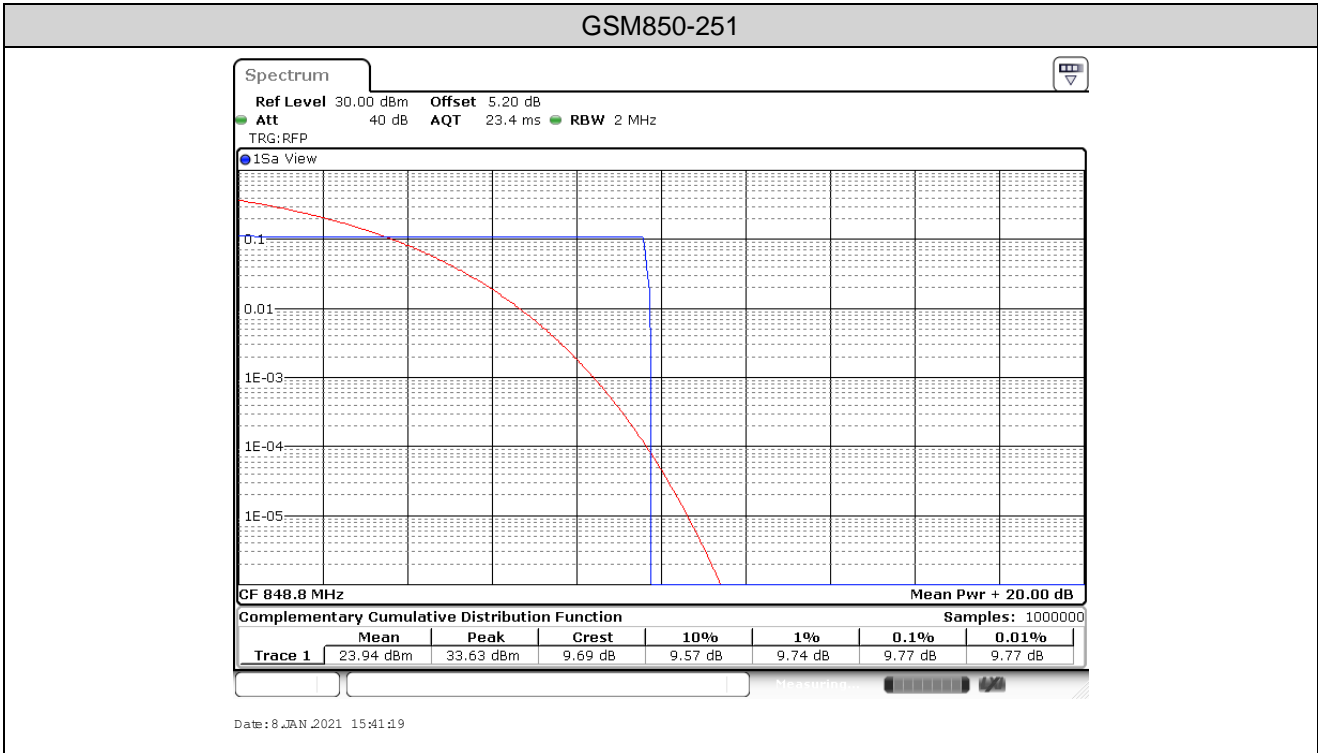
2.2.Part II - Test Plots



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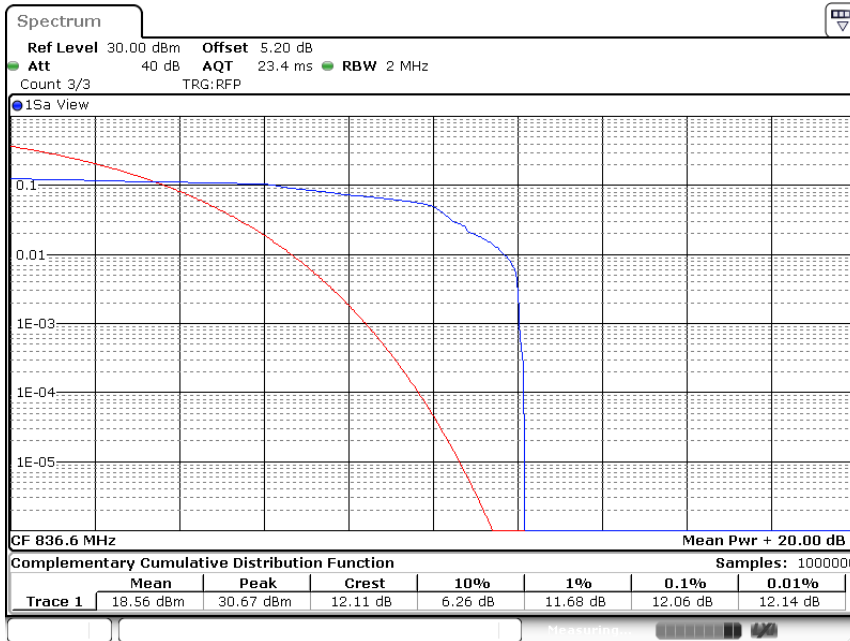
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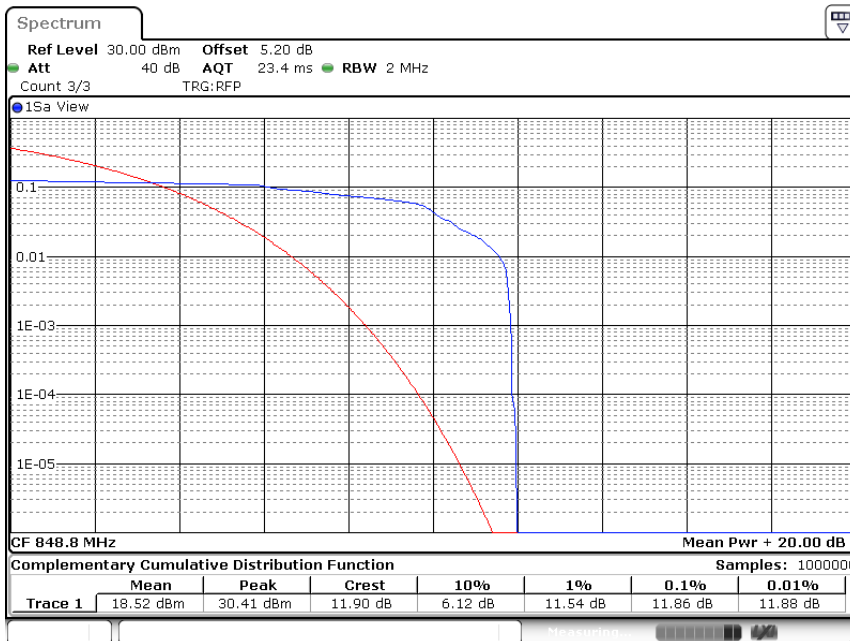
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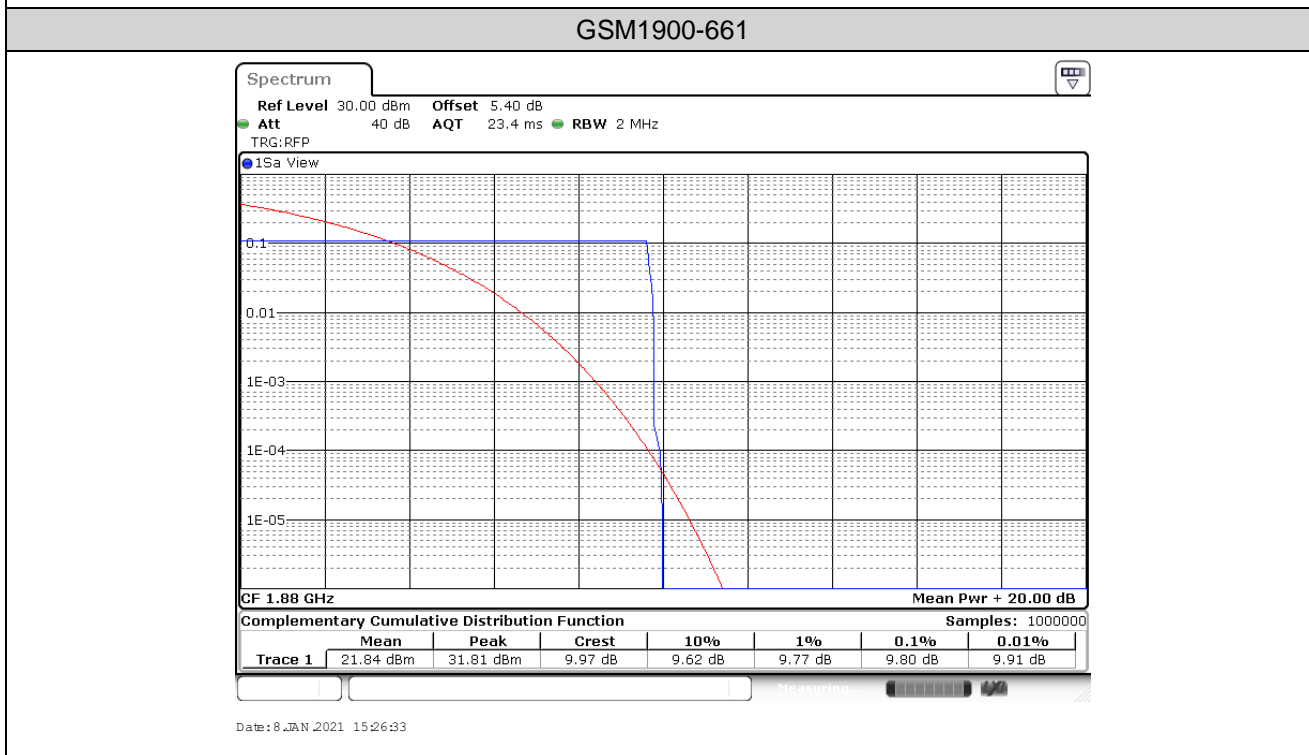
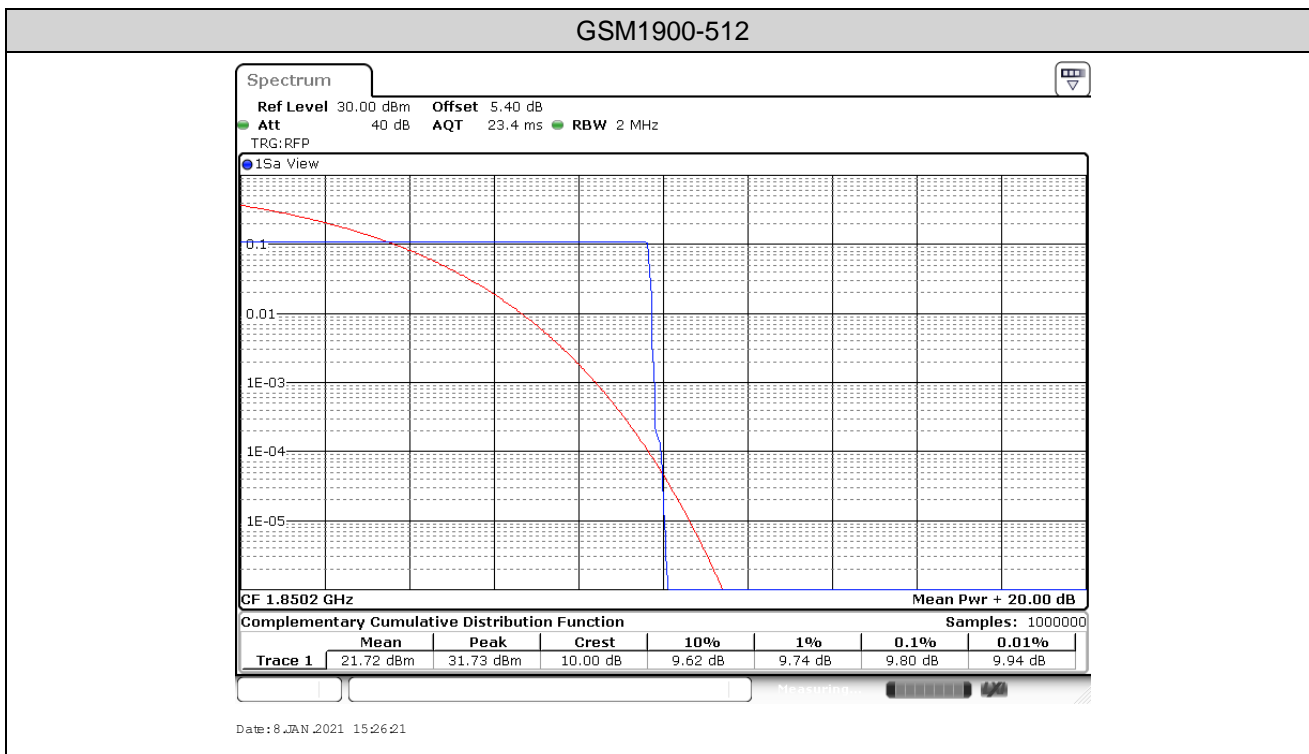
EGPRS850-251



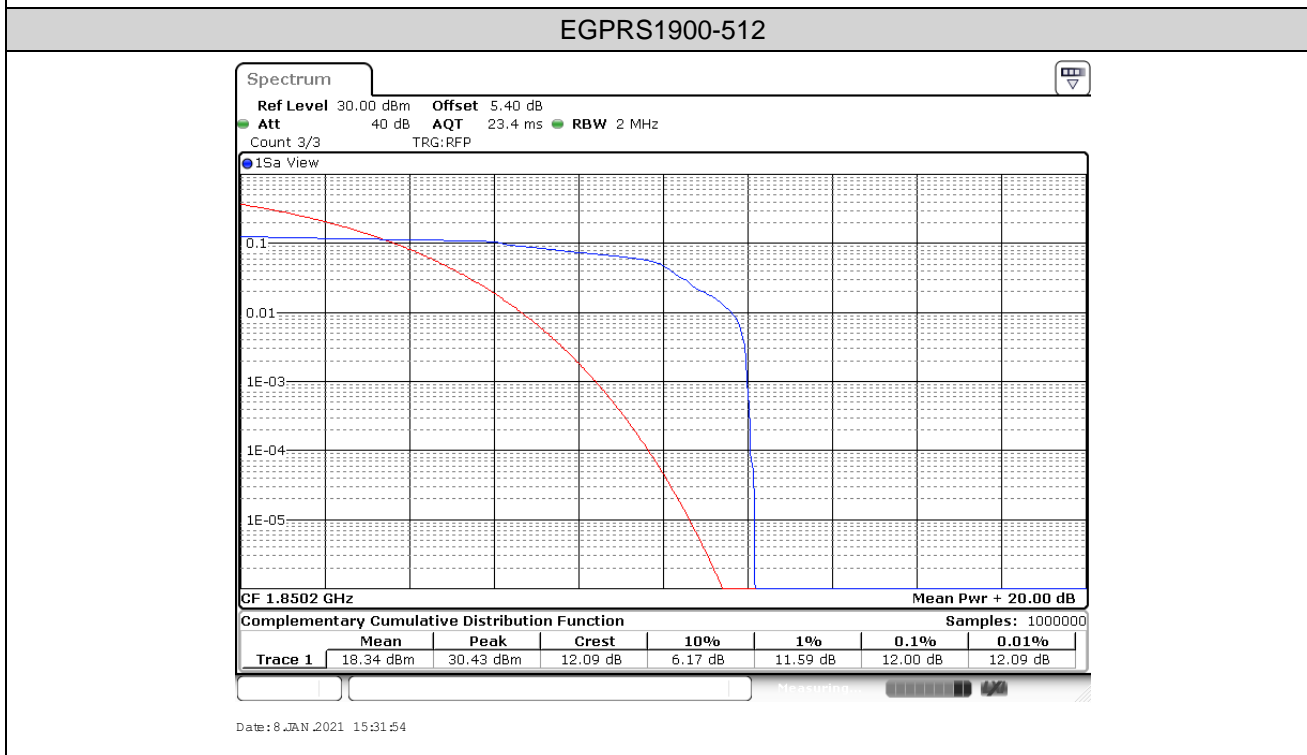
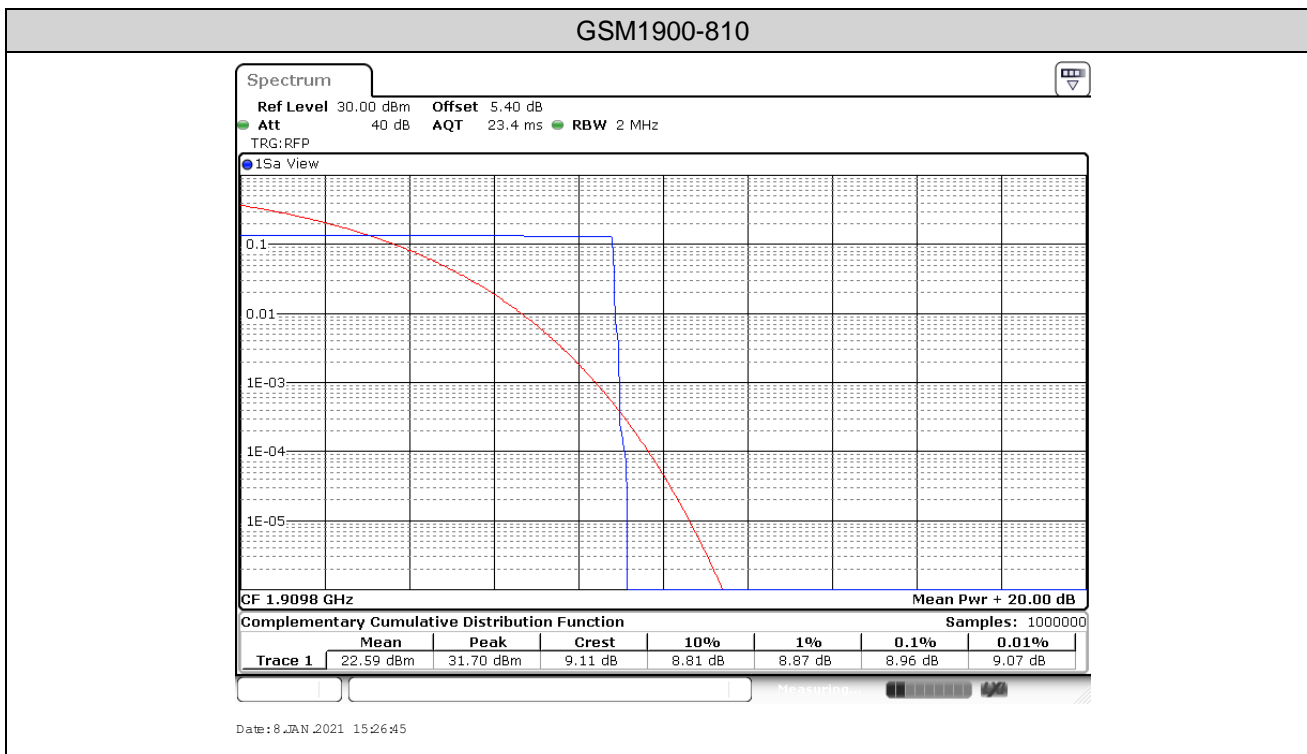
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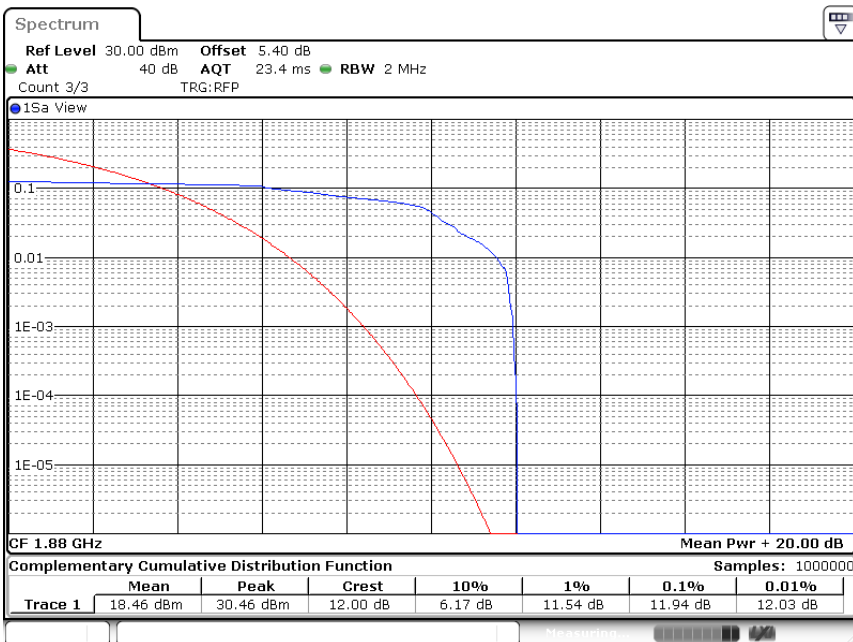


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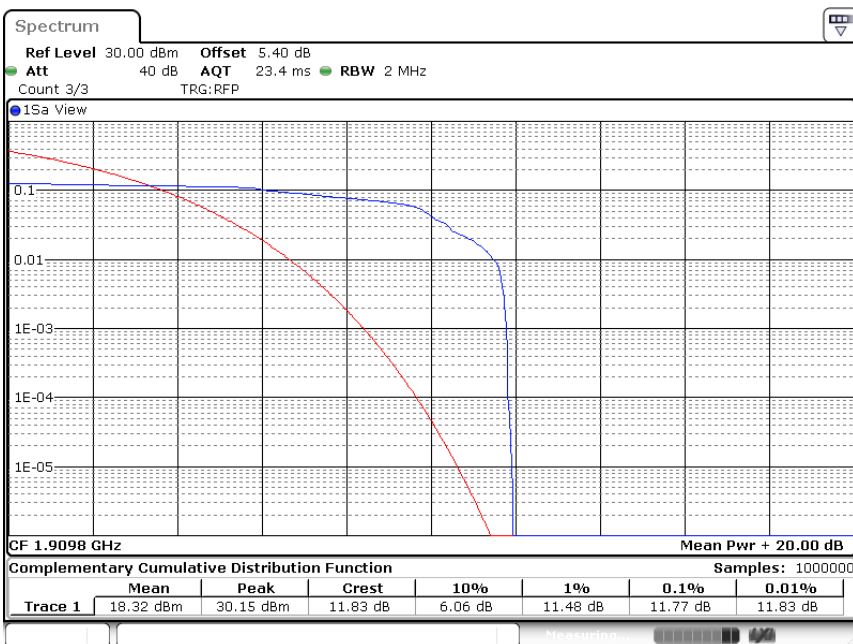
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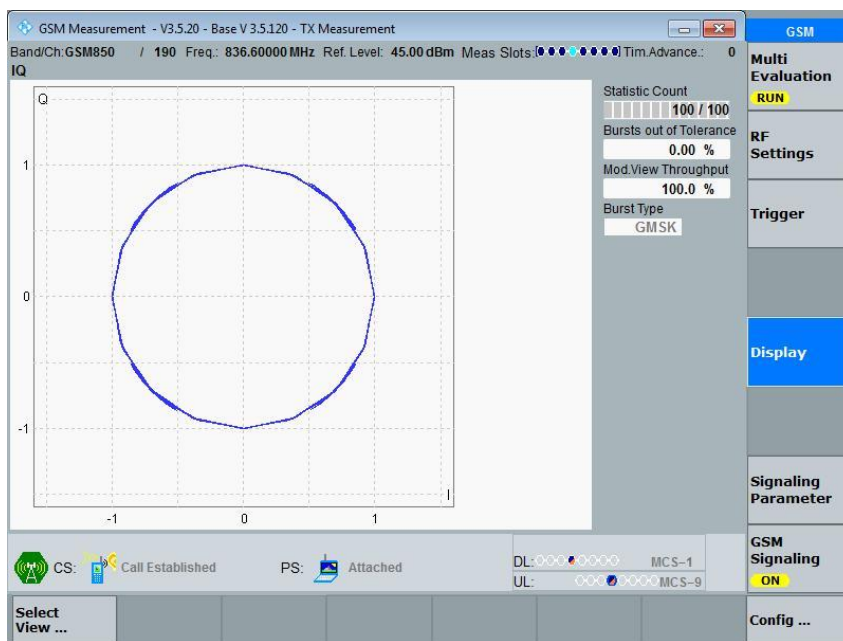
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

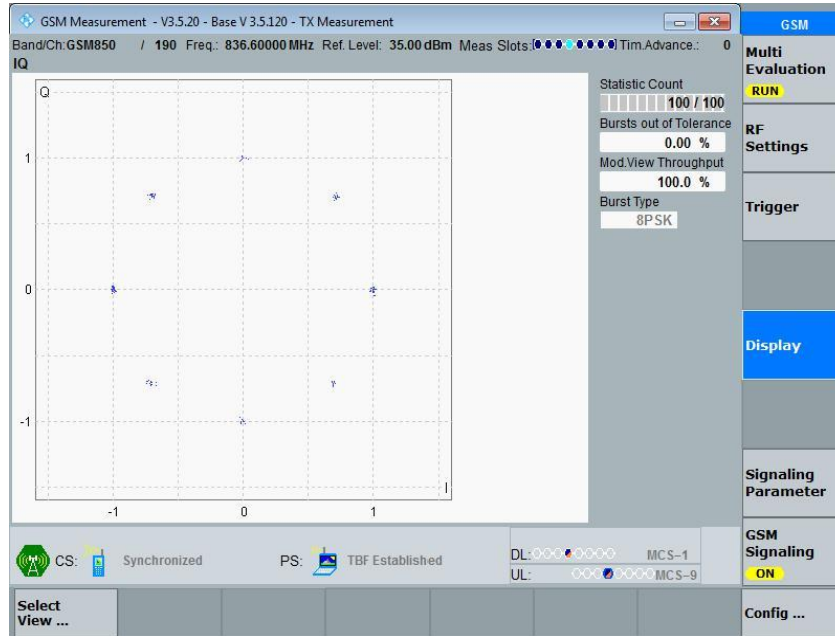
3.1.1.1.1. Test Channel = MCH



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3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH

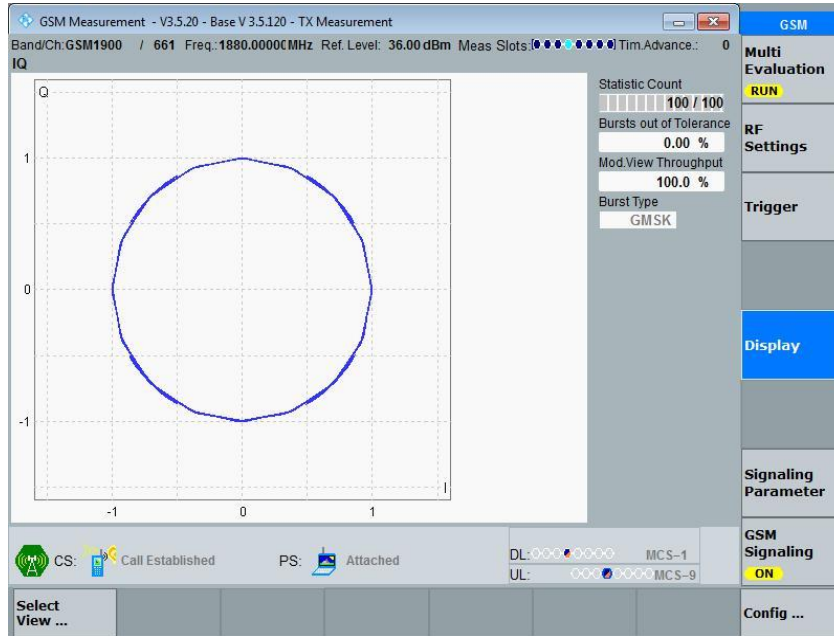


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3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH

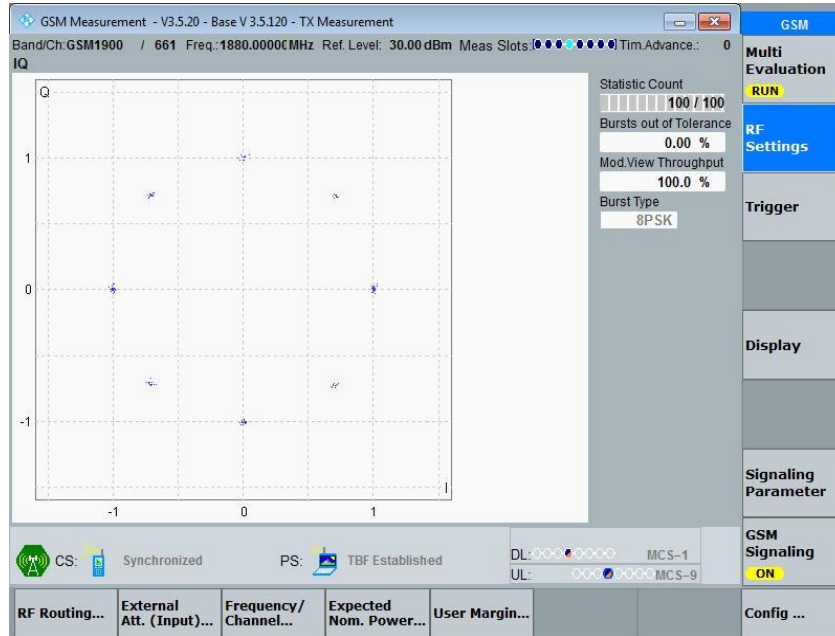


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3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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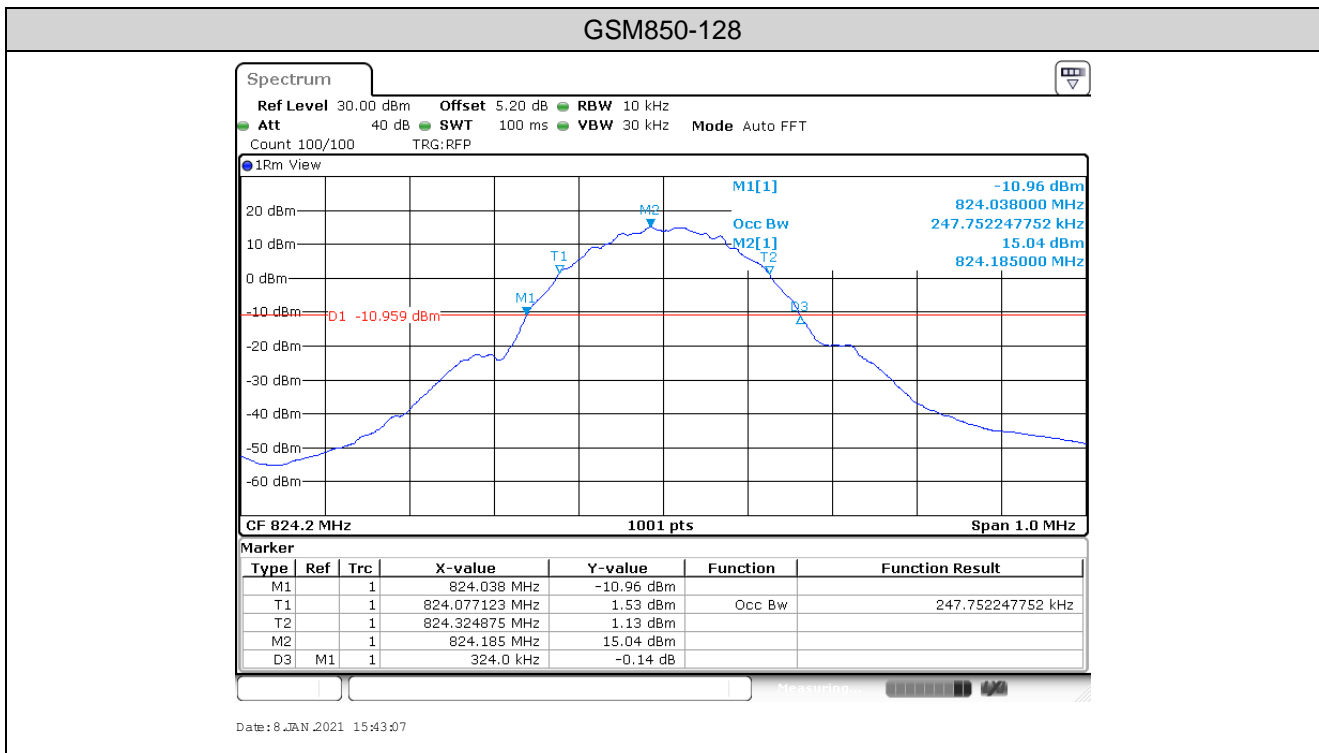


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

| Band | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
|-----------|---------|--------------------------|----------------------|-------------|---------|
| GSM850 | 128 | 0.248 | 0.324 | --- | PASS |
| GSM850 | 190 | 0.247 | 0.324 | --- | PASS |
| GSM850 | 251 | 0.247 | 0.323 | --- | PASS |
| EGPRS850 | 128 | 0.244 | 0.320 | --- | PASS |
| EGPRS850 | 190 | 0.245 | 0.318 | --- | PASS |
| EGPRS850 | 251 | 0.244 | 0.316 | --- | PASS |
| GSM1900 | 512 | 0.246 | 0.323 | --- | PASS |
| GSM1900 | 661 | 0.246 | 0.322 | --- | PASS |
| GSM1900 | 810 | 0.244 | 0.325 | --- | PASS |
| EGPRS1900 | 512 | 0.244 | 0.321 | --- | PASS |
| EGPRS1900 | 661 | 0.242 | 0.318 | --- | PASS |
| EGPRS1900 | 810 | 0.243 | 0.320 | --- | PASS |

4.2. Test Plots

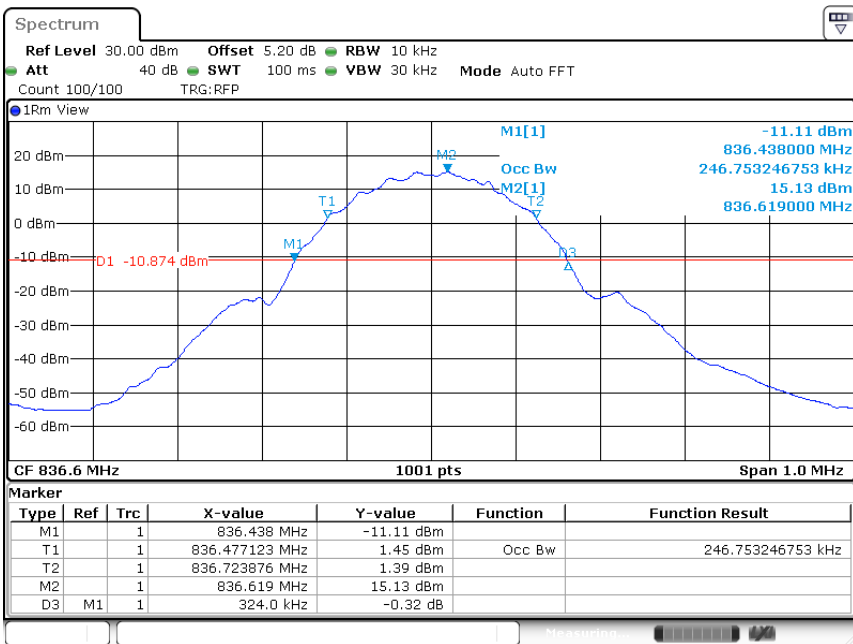


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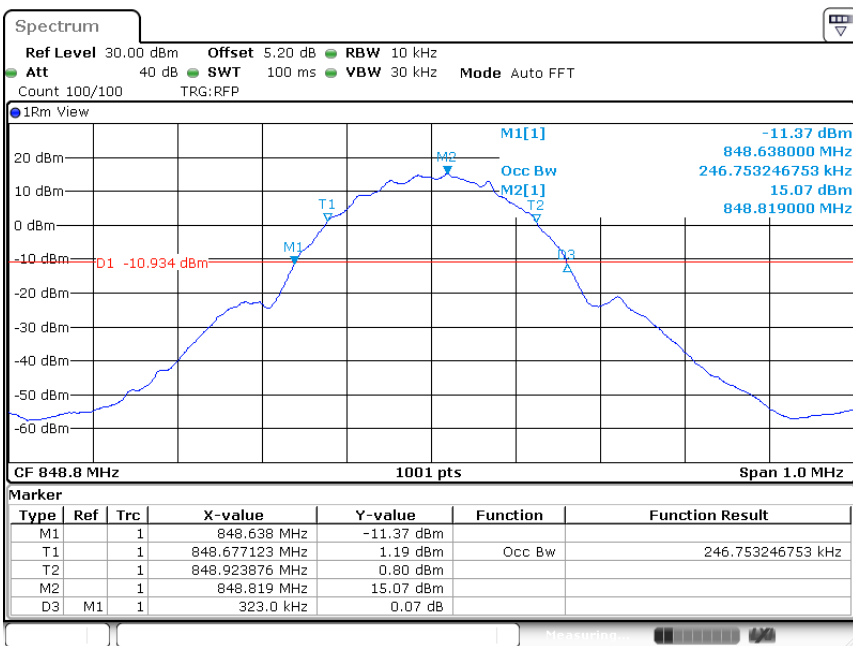


GSM850-190



Date: 8 JAN 2021 15:43:28

GSM850-251



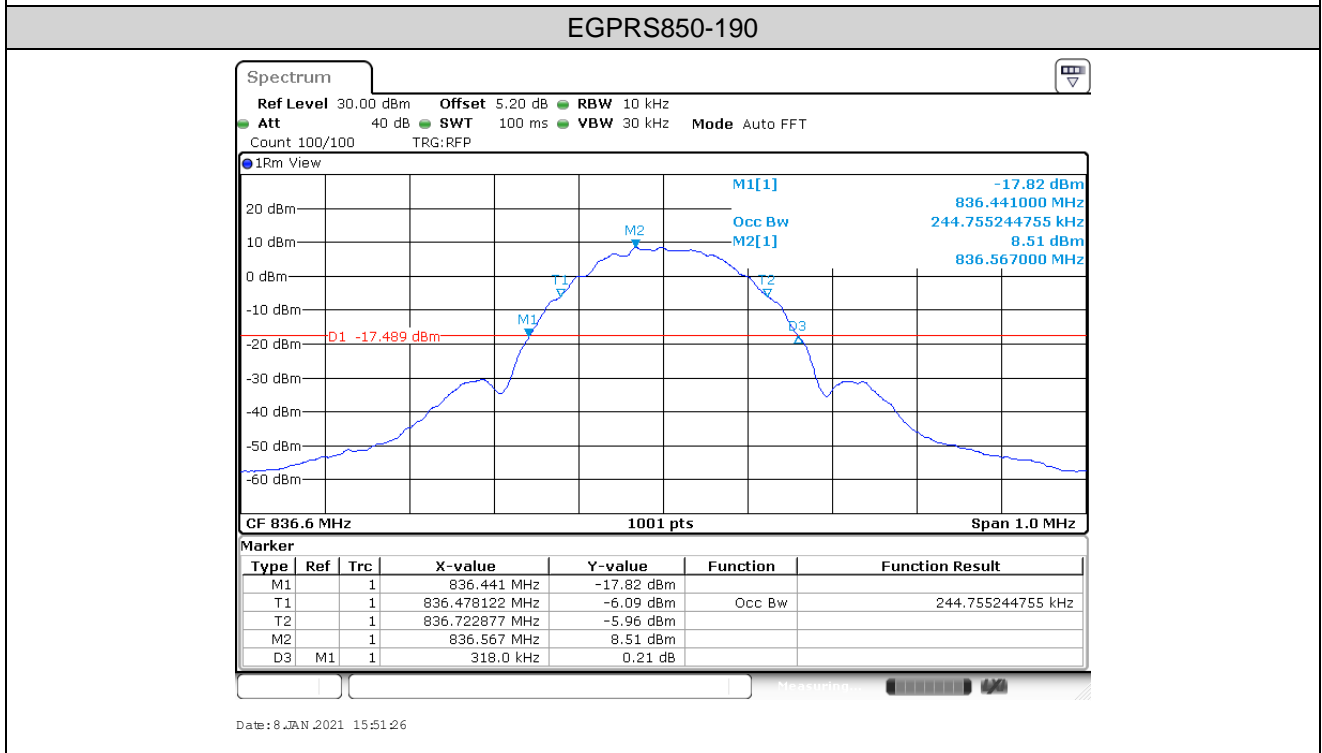
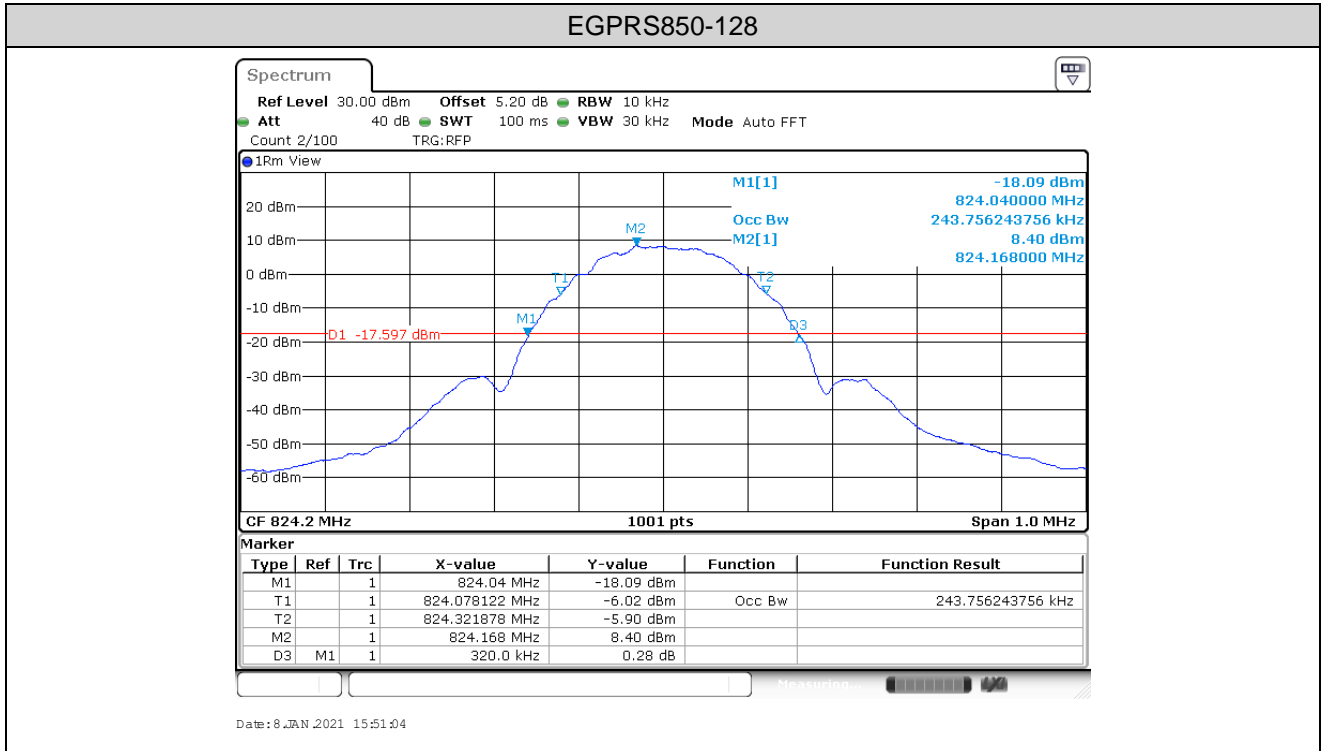
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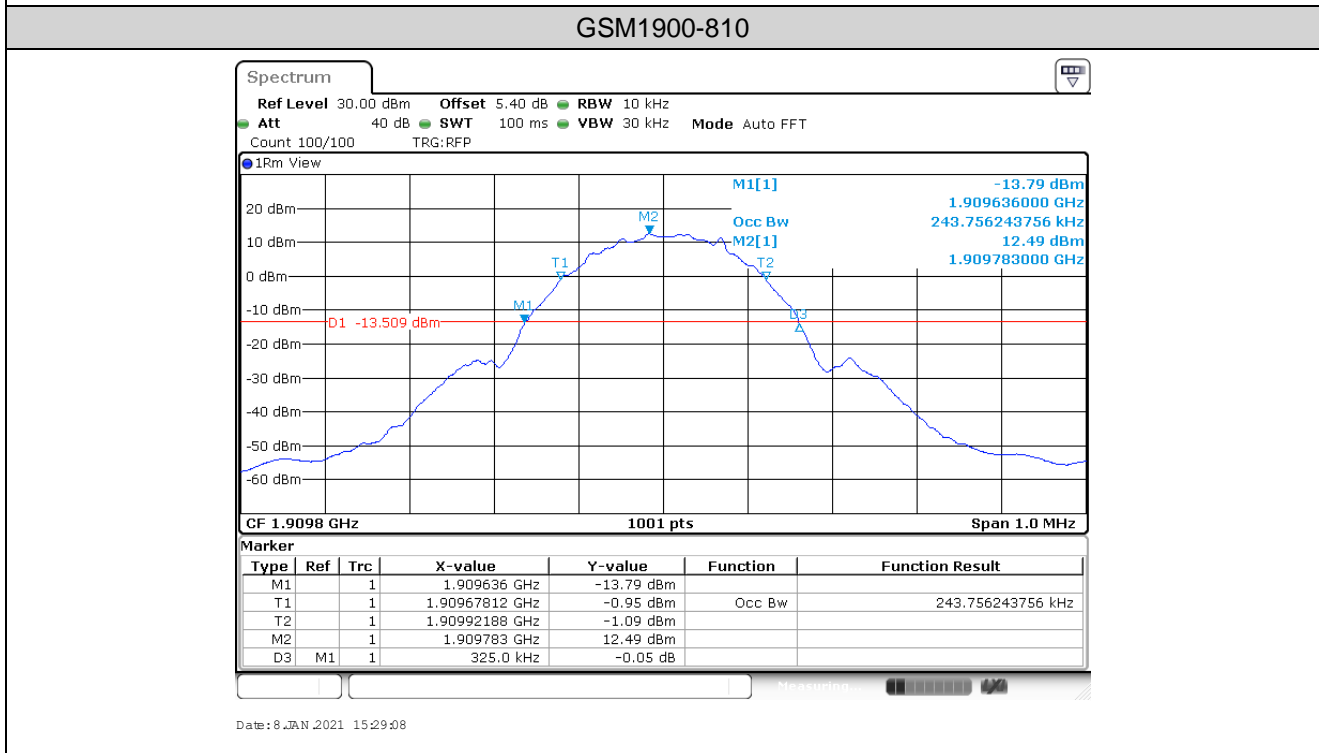
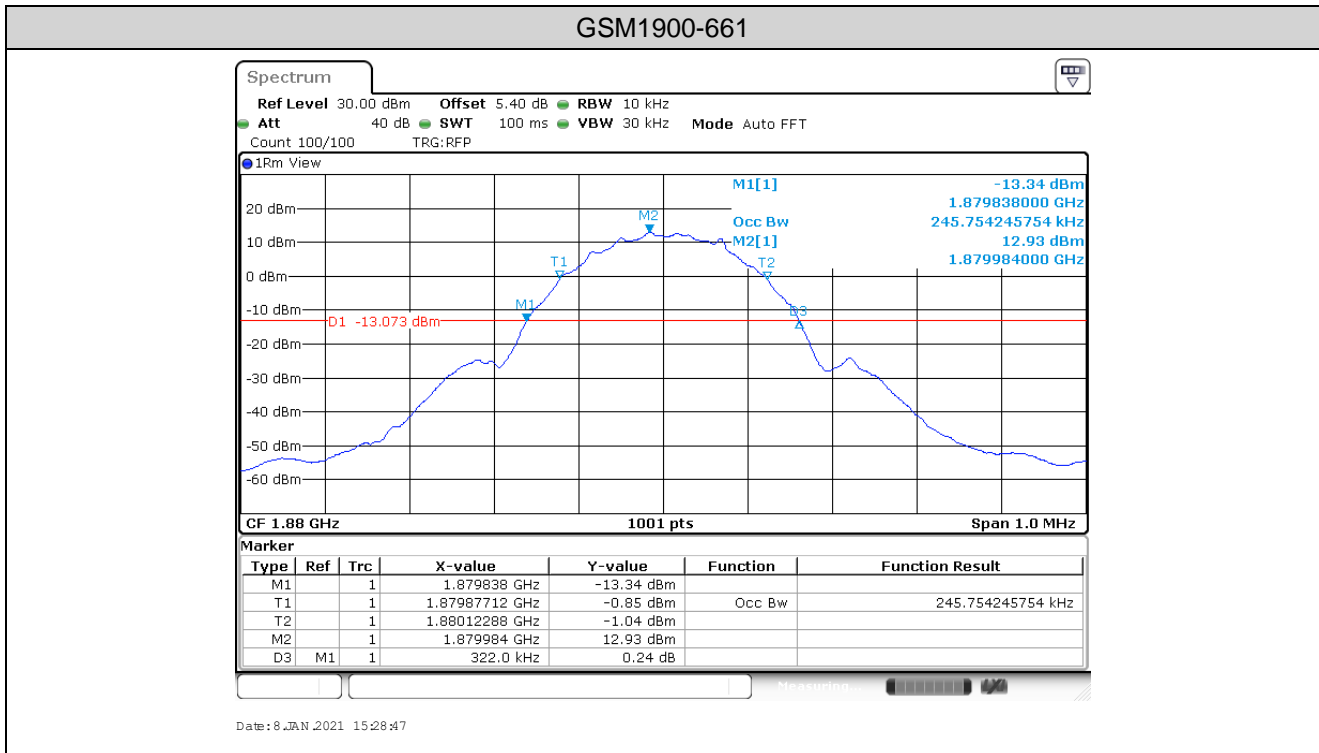
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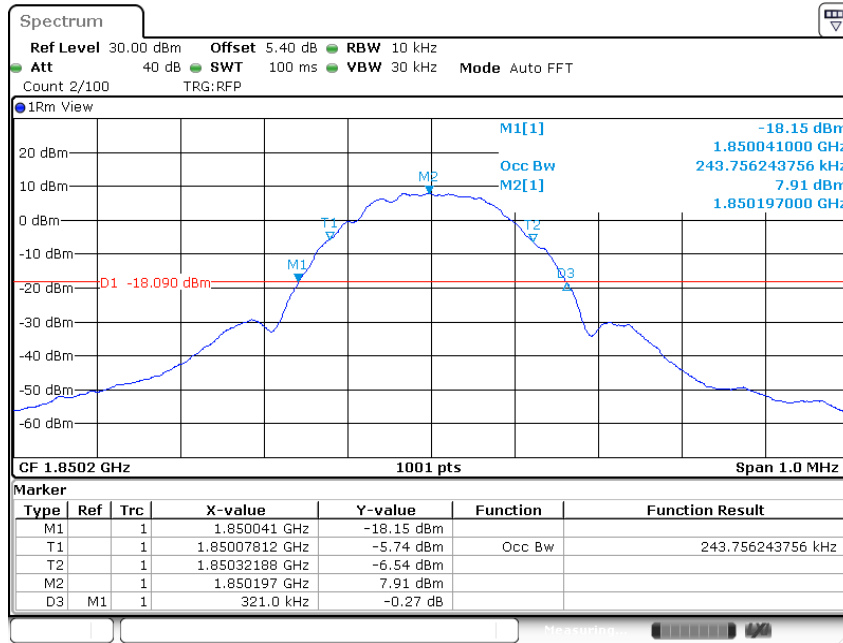


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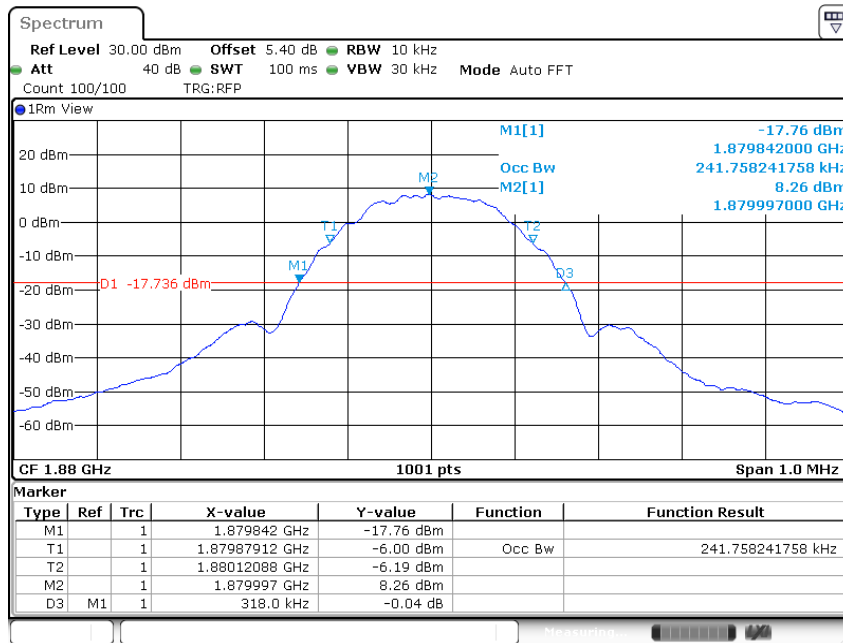
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EGPRS1900-512



Date: 8 JAN 2021 15:34:03

EGPRS1900-661



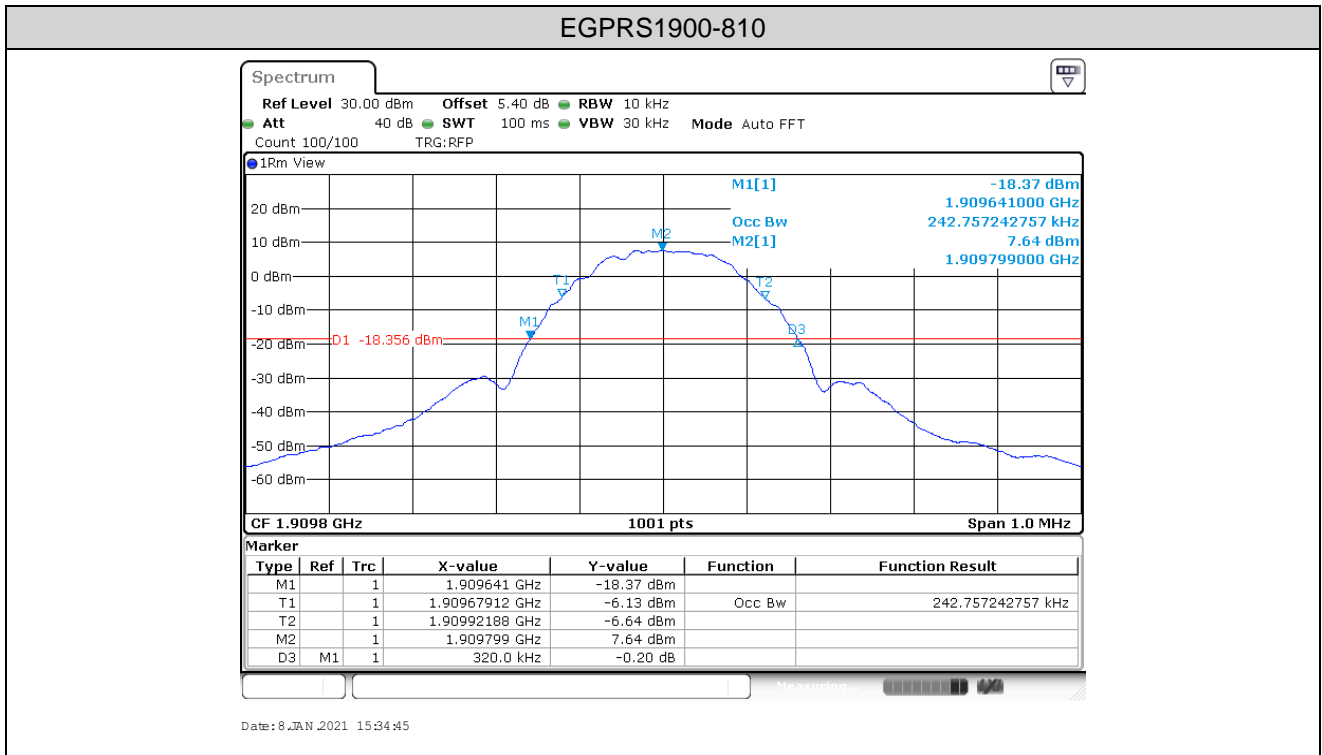
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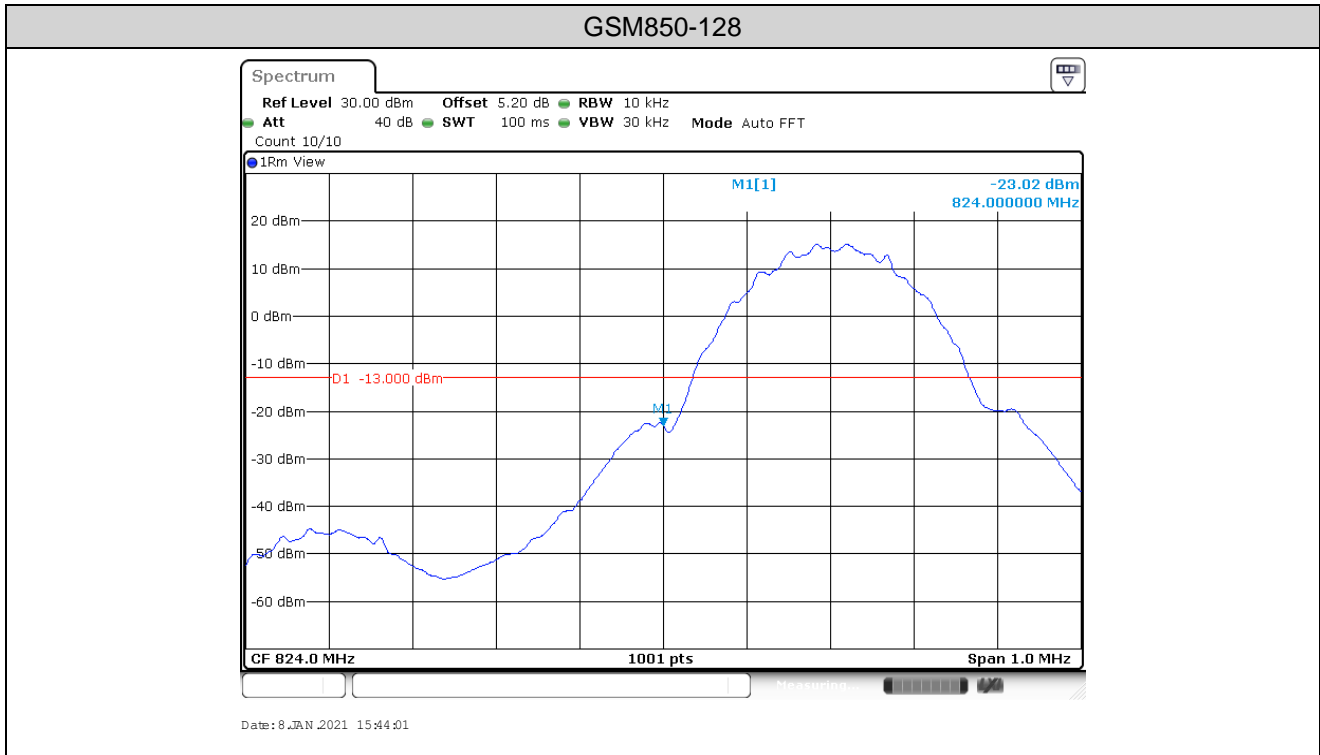


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5. Band Edge Compliance

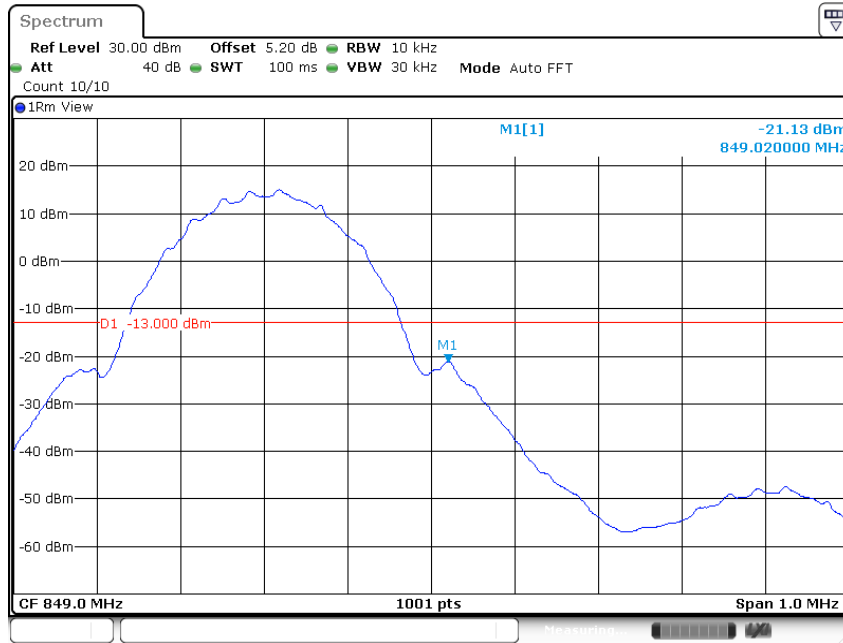
5.1. Test Plots



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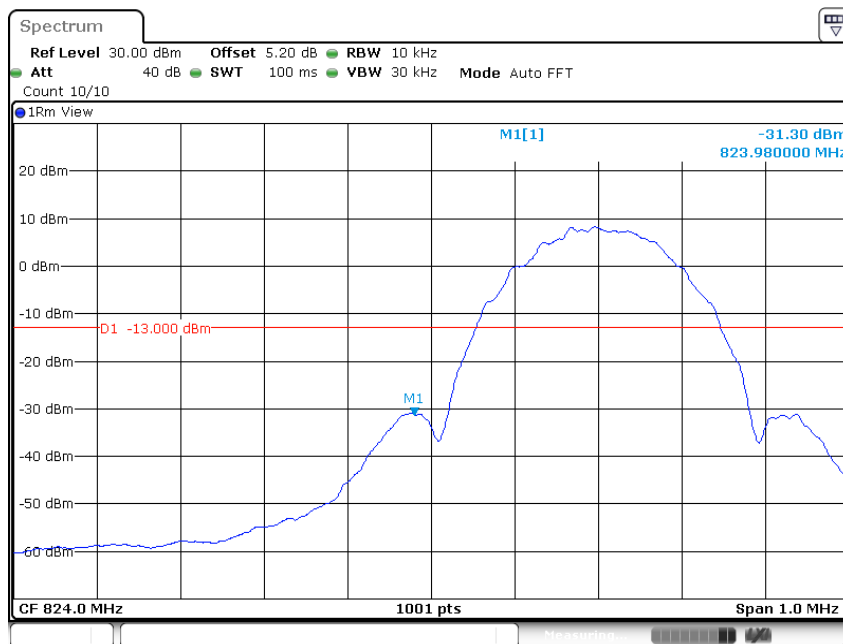
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EGPRS850-128



Date: 8 JAN 2021 15:52:00

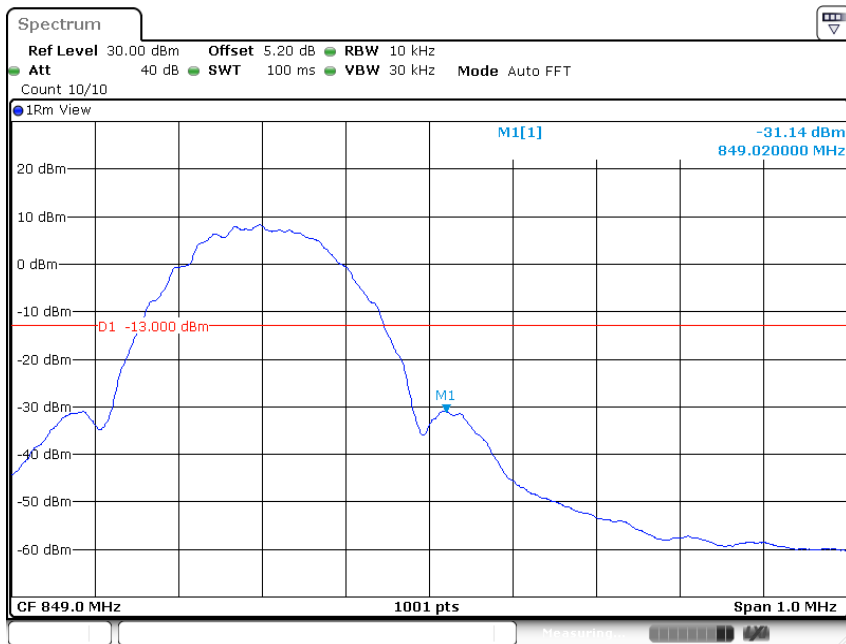


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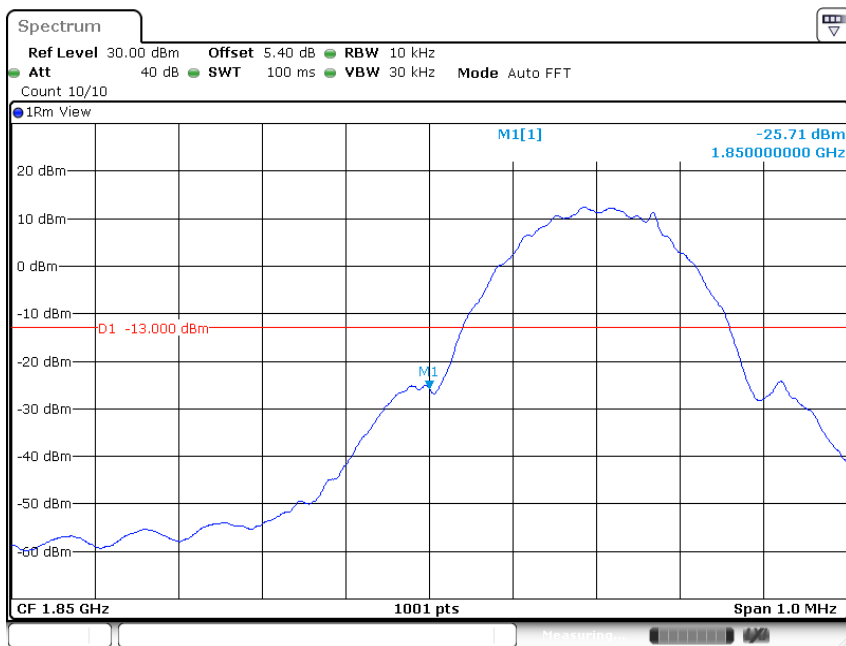
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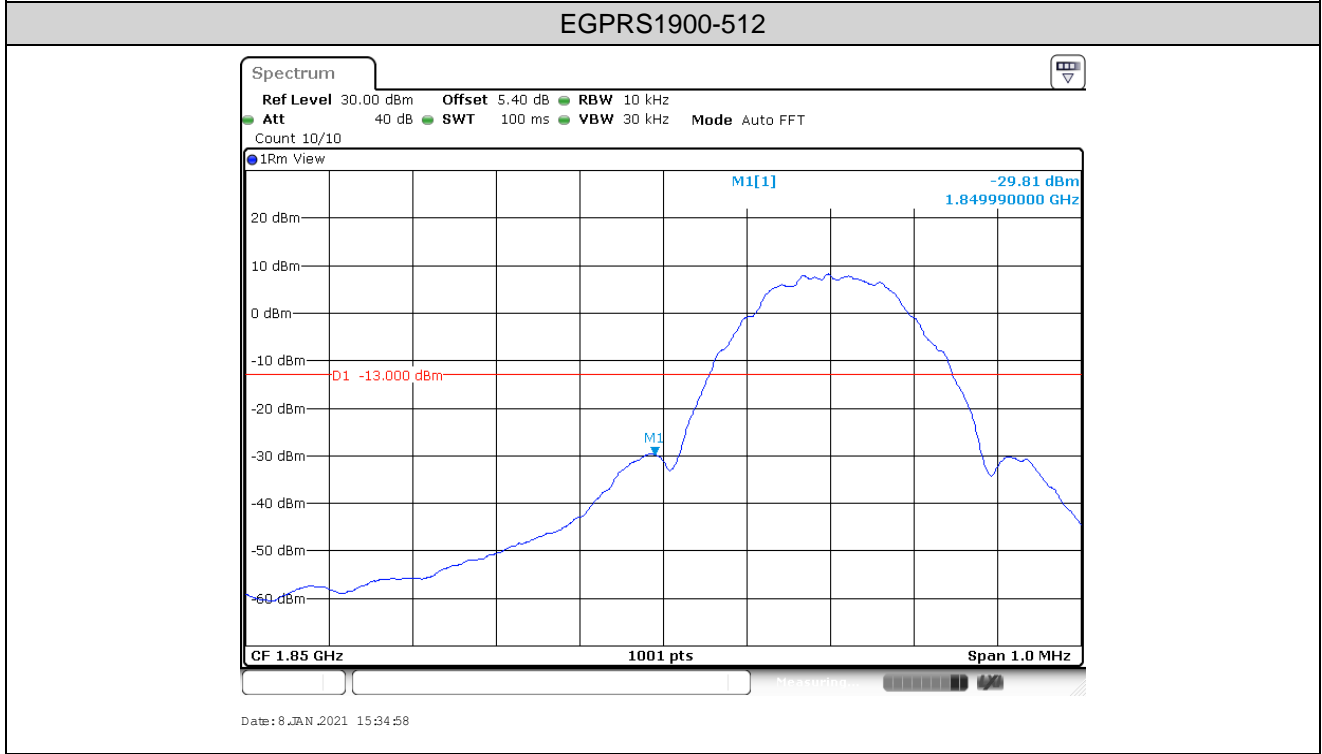
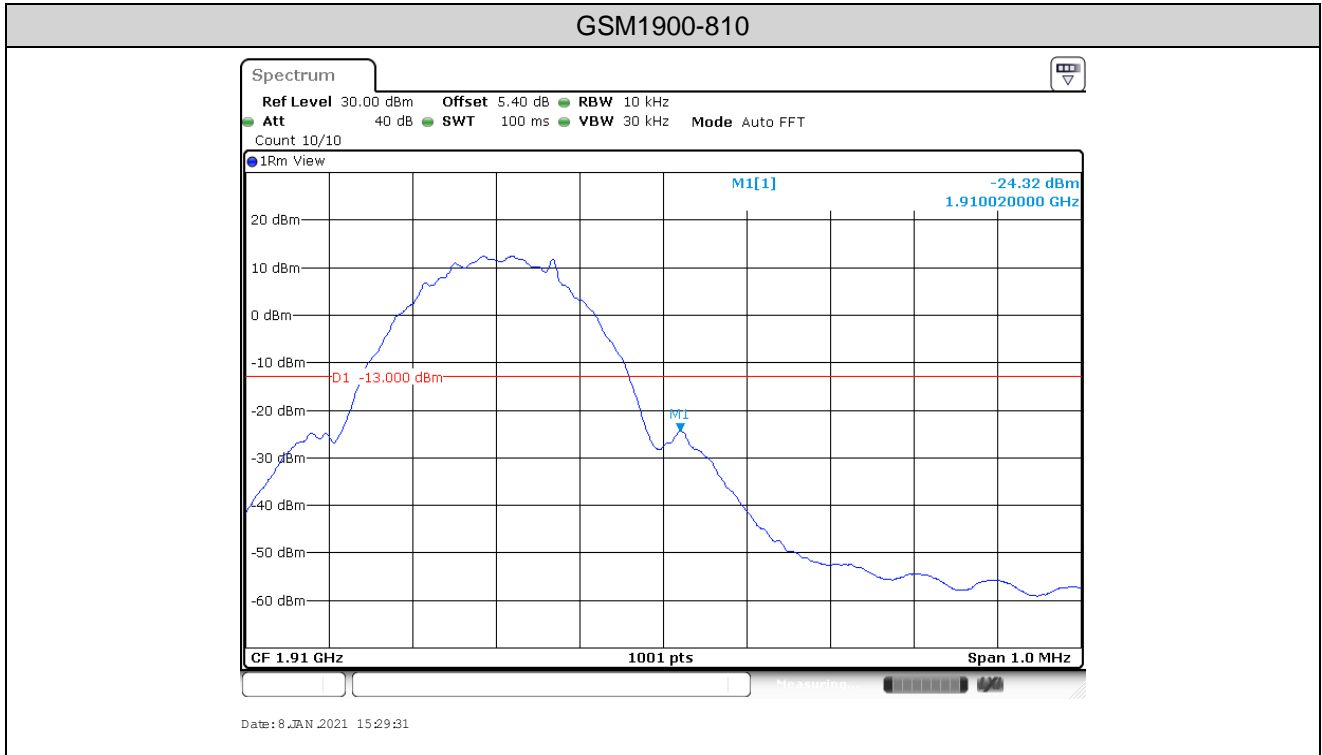
GSM1900-512



Date: 8 JAN 2021 15:29:20



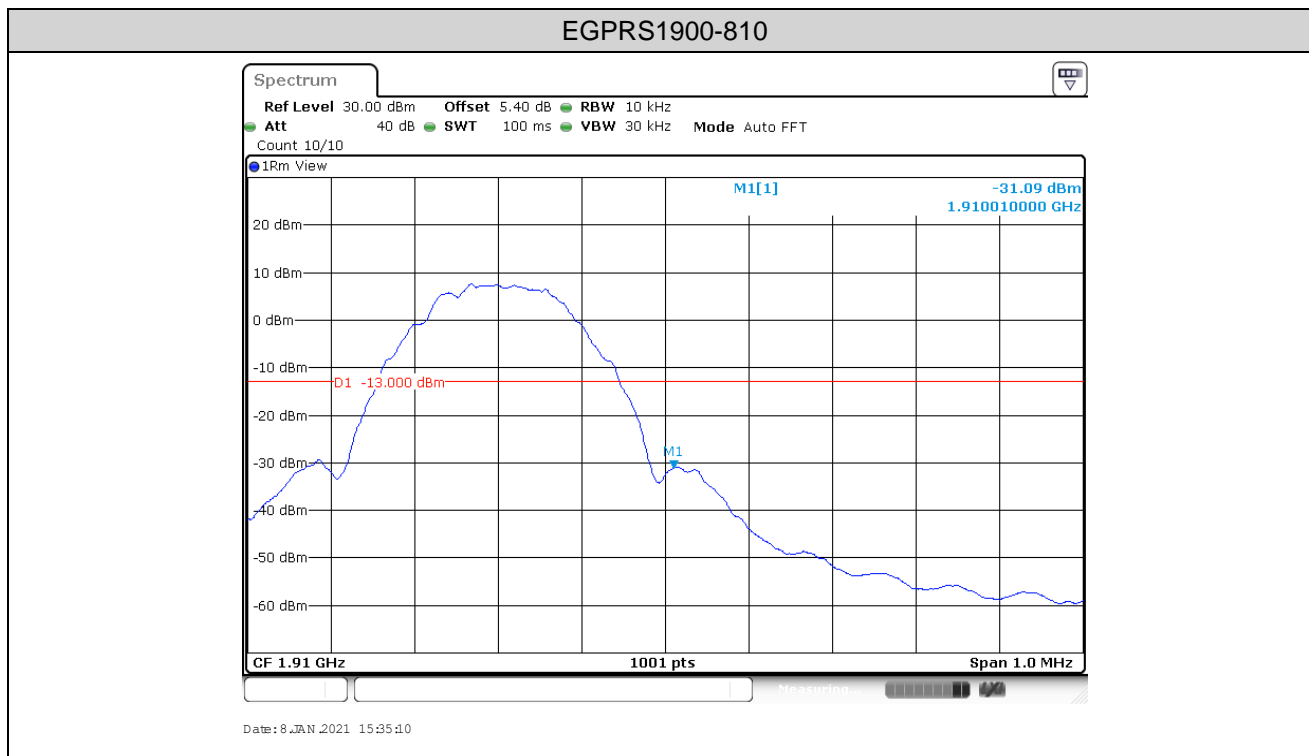
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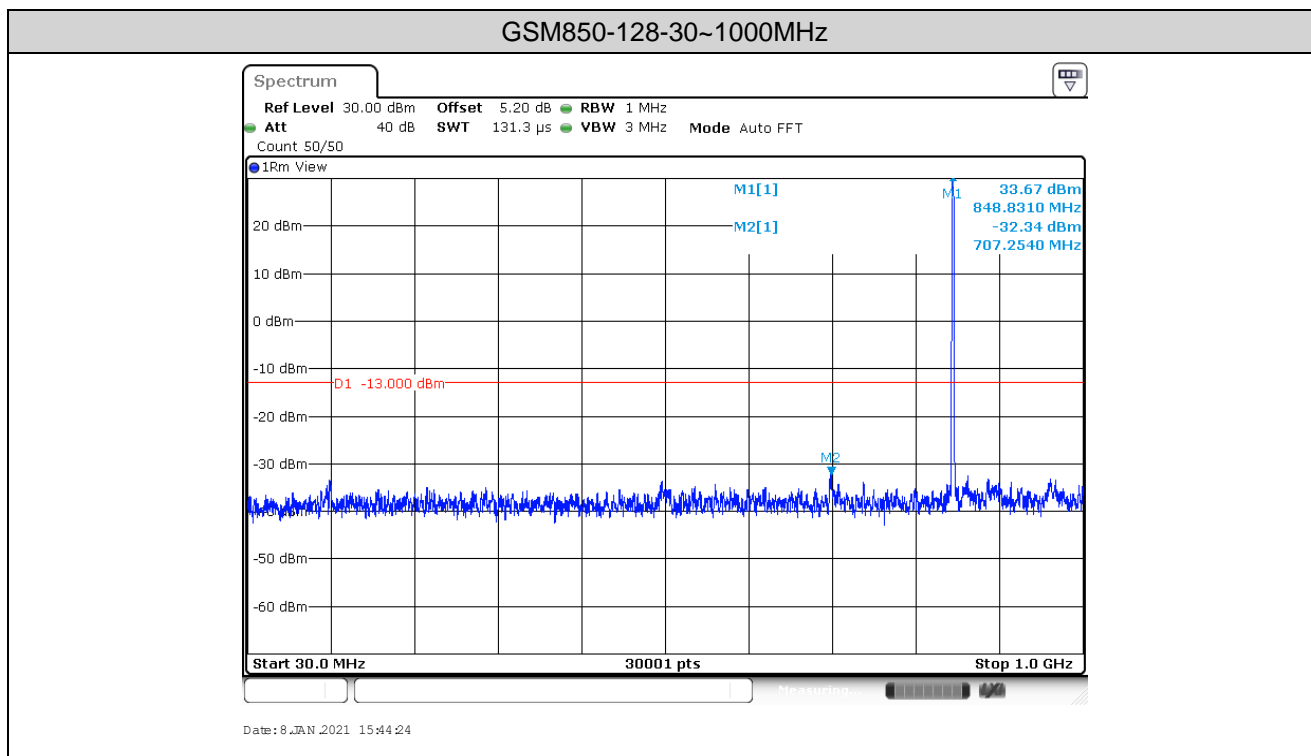
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6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

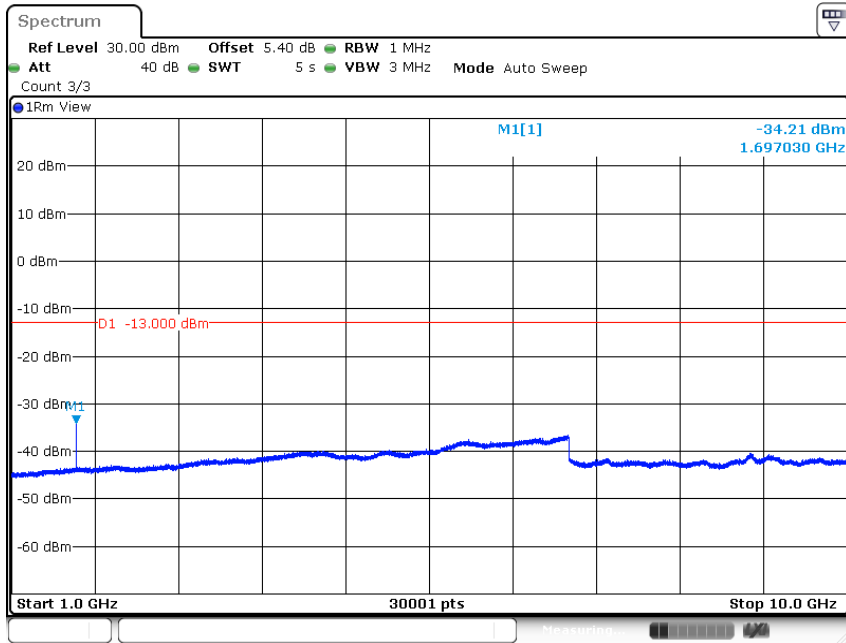
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



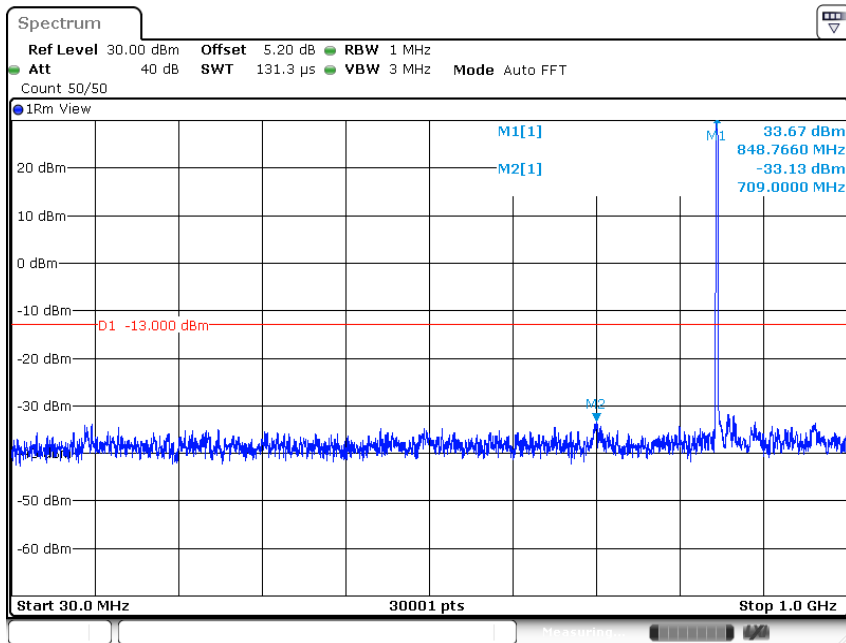
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GSM850-128-1000~10000MHz



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GSM850-190-30~1000MHz



Date: 8 JAN 2021 15:45:00

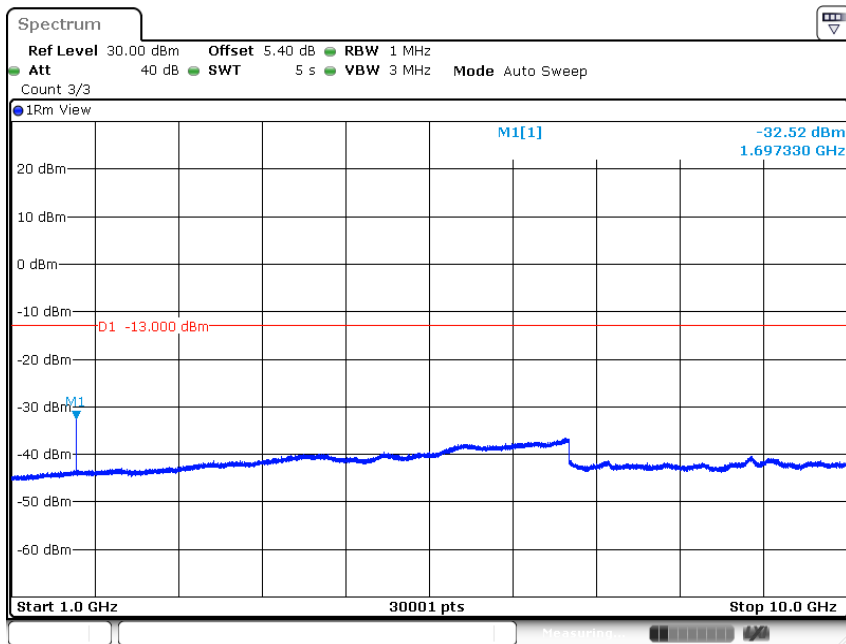


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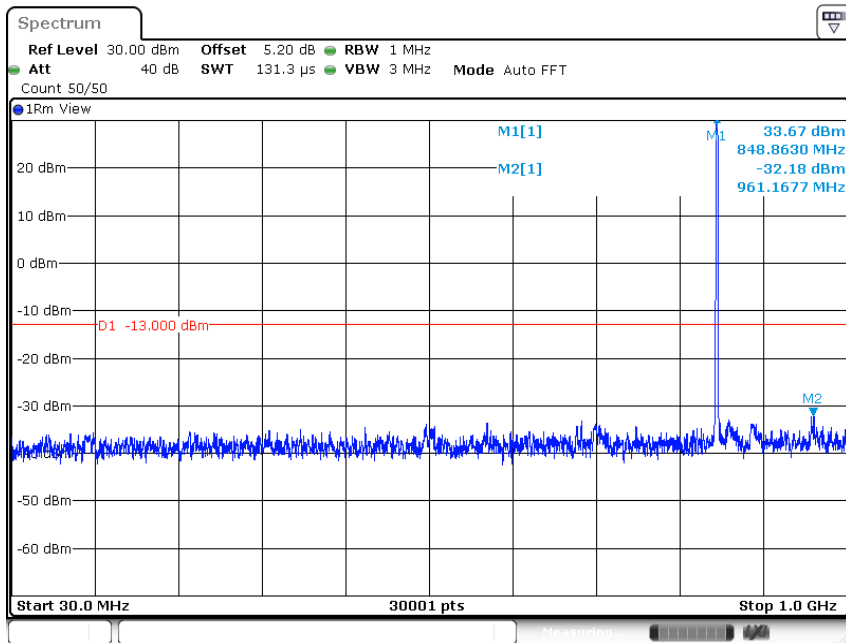
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GSM850-190-1000~10000MHz



Date: 8 JAN 2021 15:45:24

GSM850-251-30~1000MHz



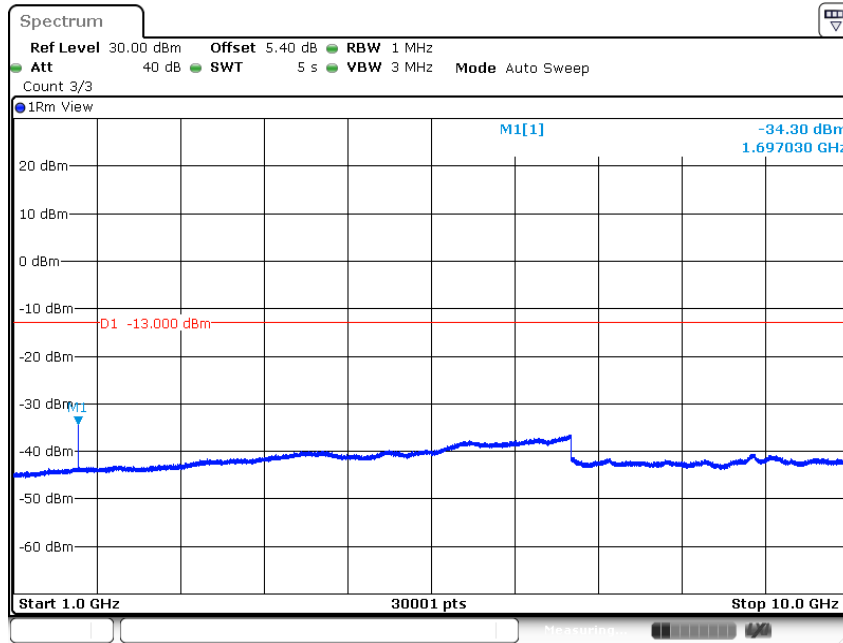
Date: 8 JAN 2021 15:45:35



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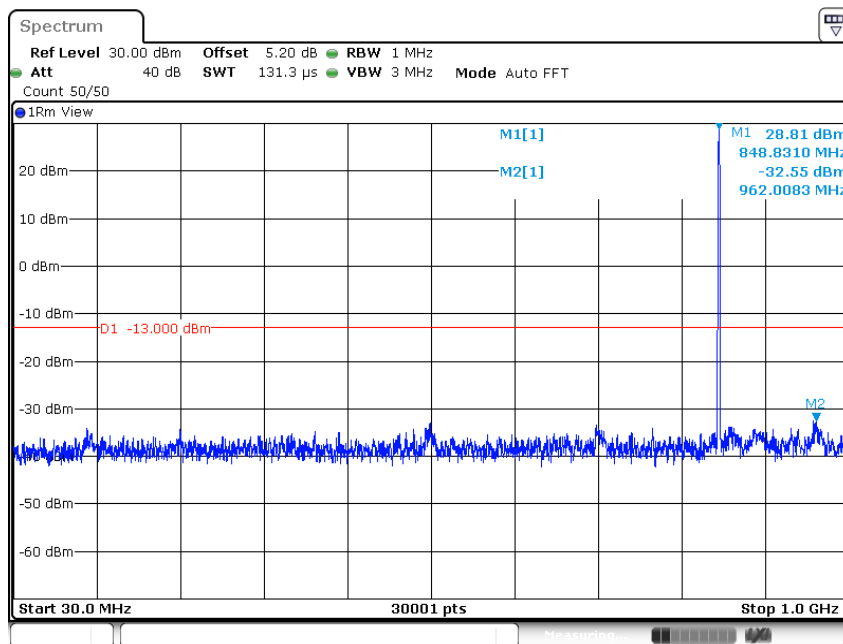
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GSM850-251-1000~10000MHz



Date: 8 JAN 2021 15:45:59

EGPRS850-128-30~1000MHz



Date: 8 JAN 2021 15:52:24

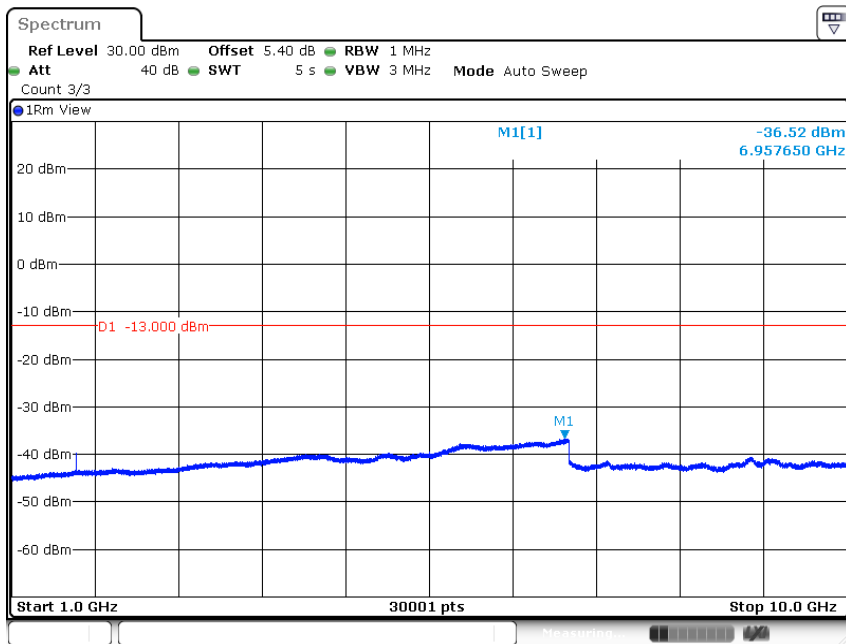


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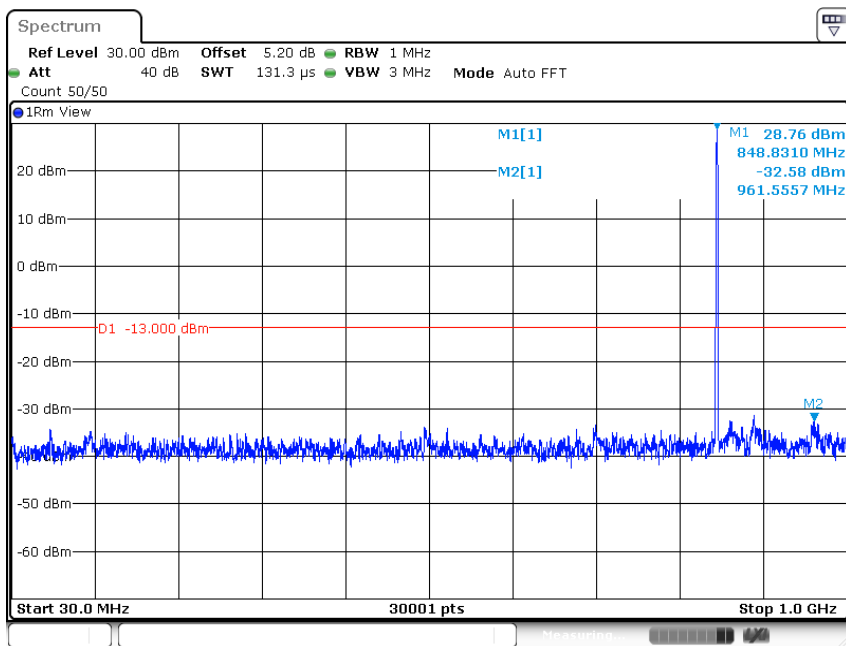
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EGPRS850-128-1000~10000MHz



Date: 8 JAN 2021 15:52:48

EGPRS850-190-30~1000MHz

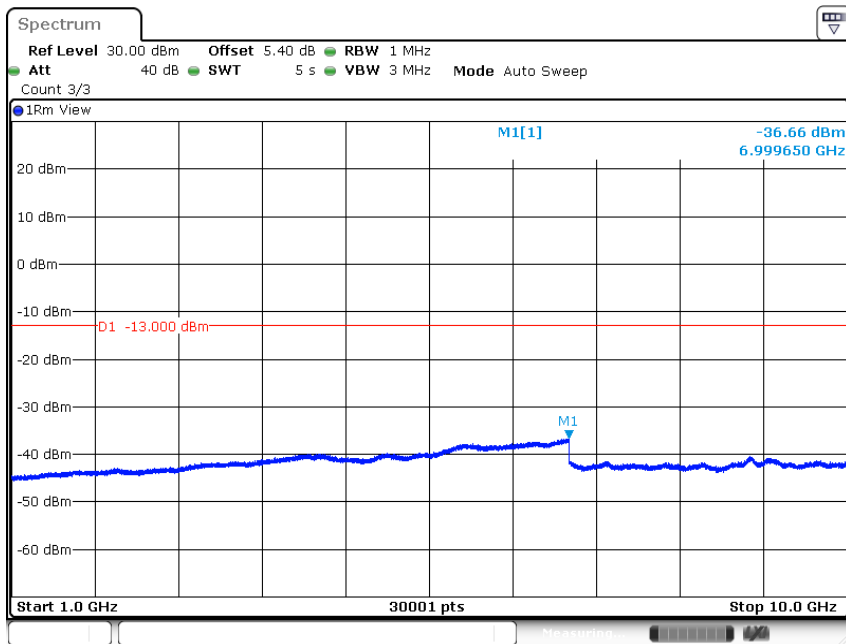


Date: 8 JAN 2021 15:53:00



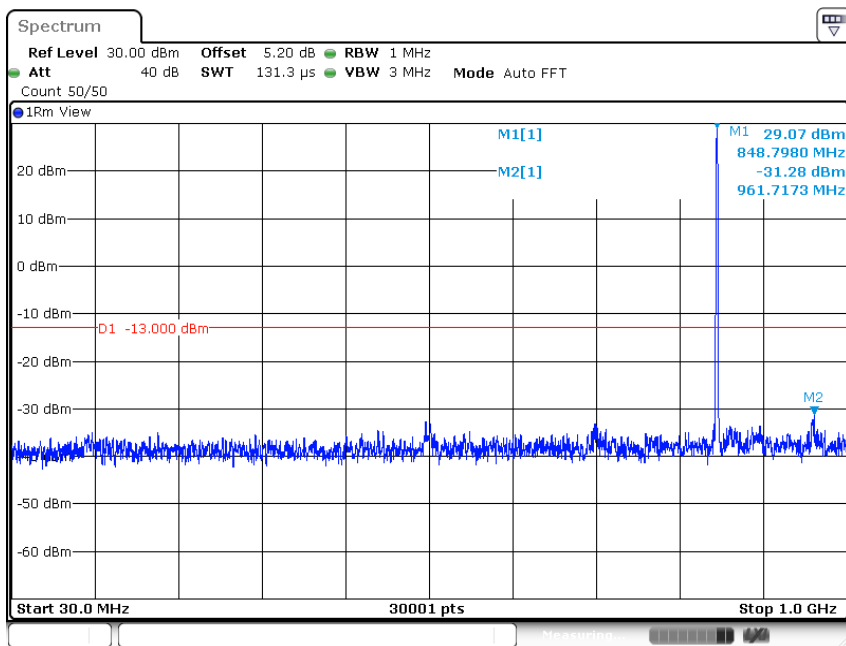
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EGPRS850-190-1000~10000MHz



Date: 8 JAN 2021 15:53:24

EGPRS850-251-30~1000MHz

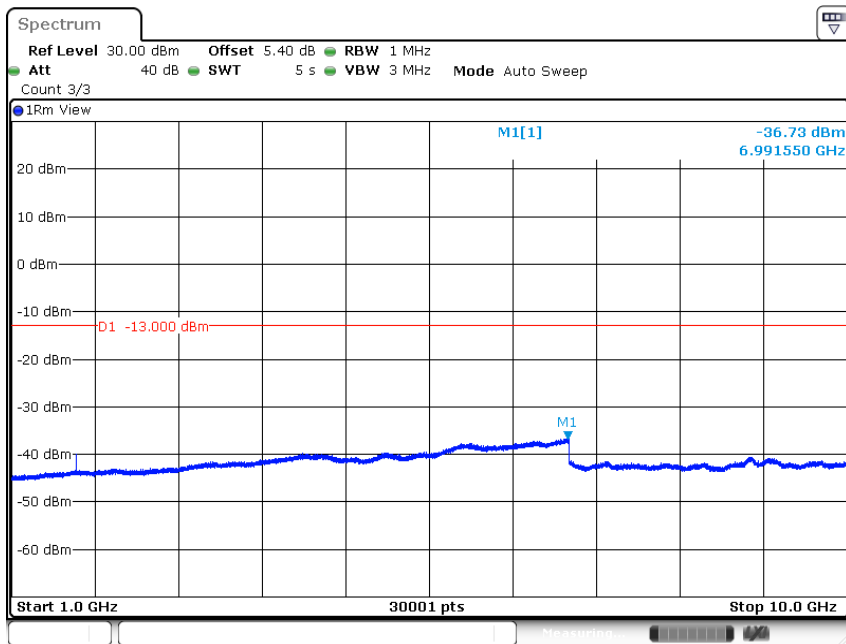


Date: 8 JAN 2021 15:53:39



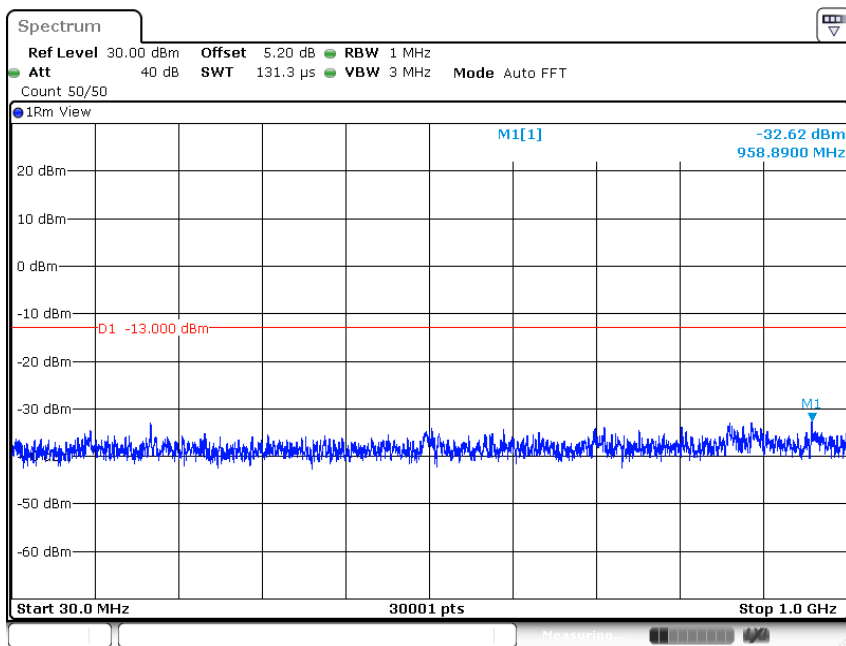
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EGPRS850-251-1000~10000MHz



Date: 8 JAN 2021 15:54:03

GSM1900-512-30~1000MHz



Date: 8 JAN 2021 15:29:43

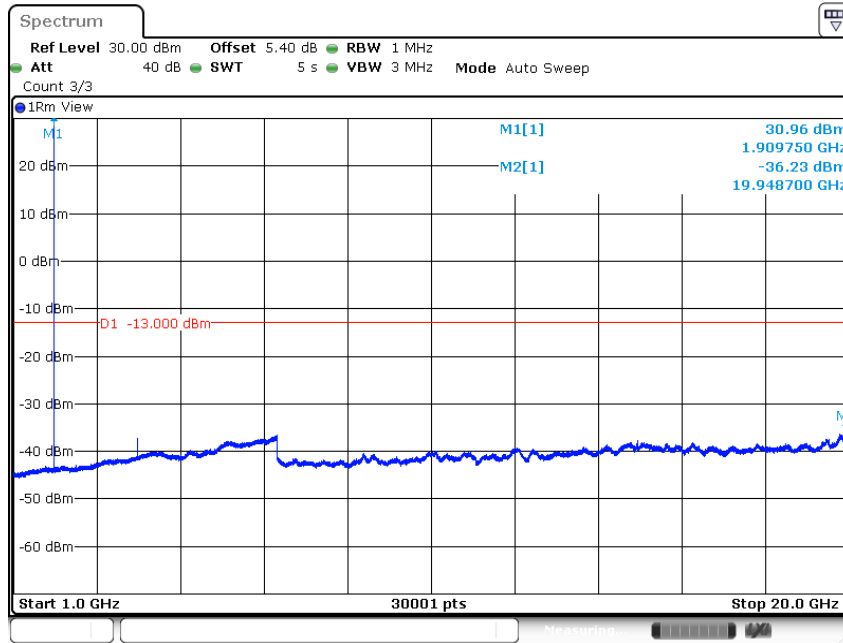


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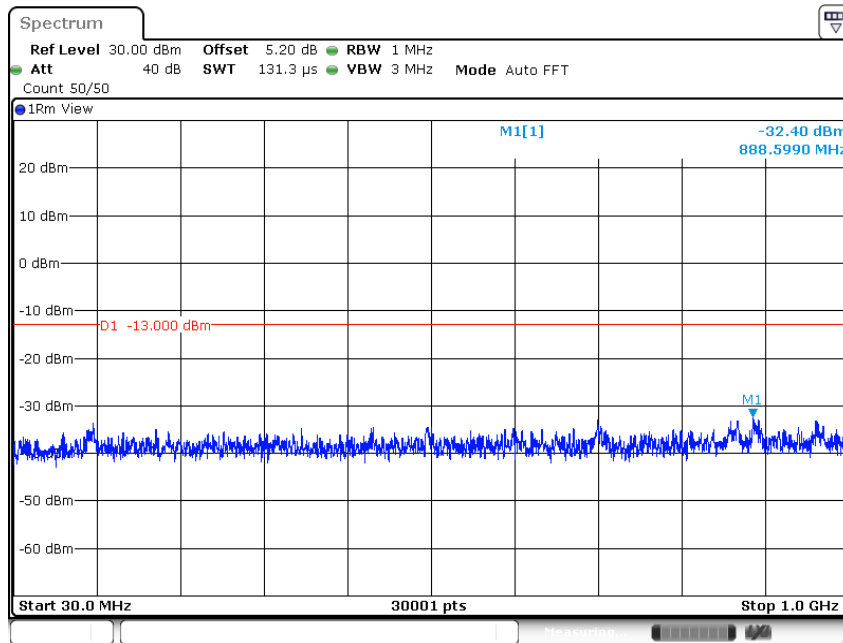
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GSM1900-512-1000~20000MHz



Date: 8 JAN 2021 15:30:08

GSM1900-661-30~1000MHz



Date: 8 JAN 2021 15:30:18

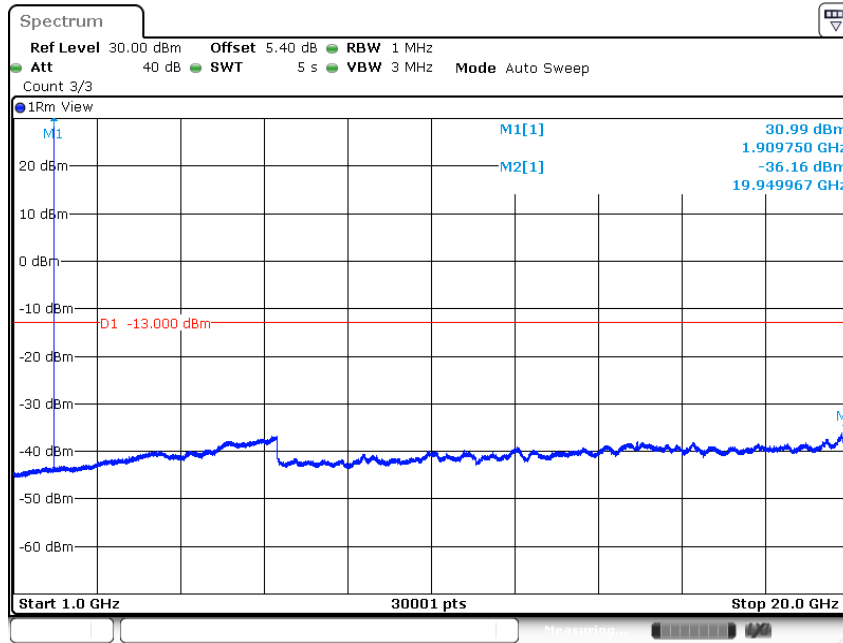


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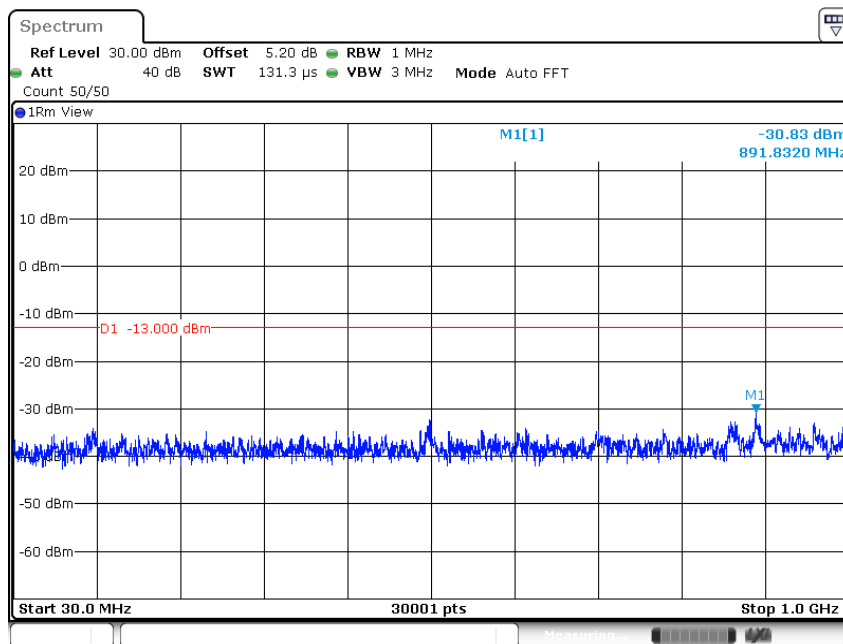
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GSM1900-661-1000~20000MHz



Date: 8 JAN 2021 15:30:43

GSM1900-810-30~1000MHz



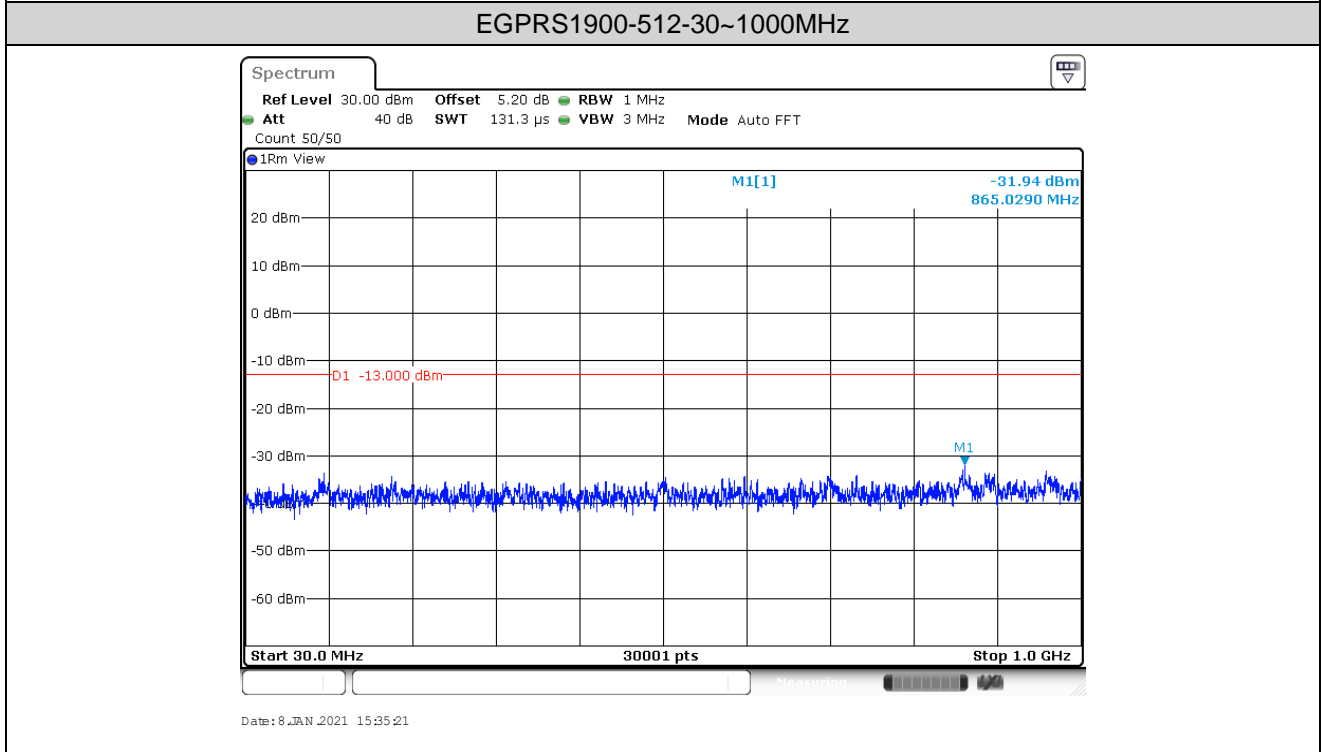
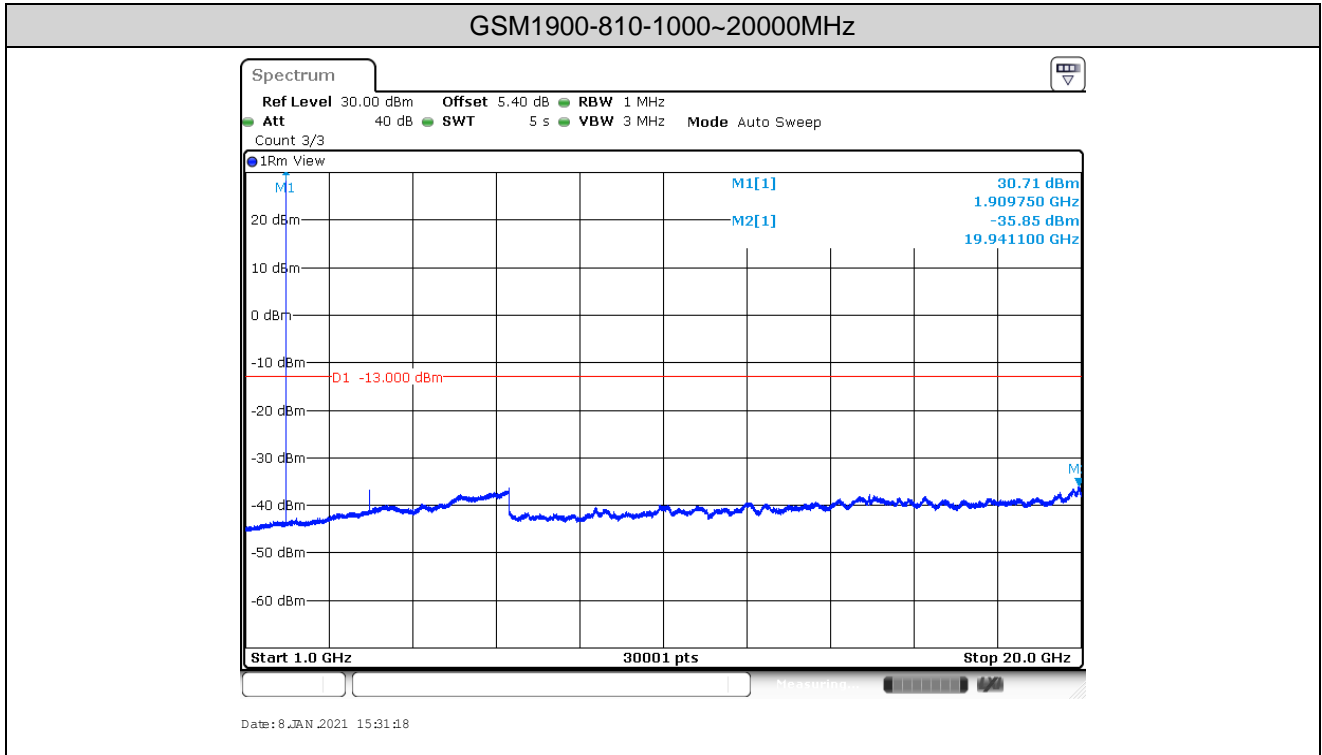
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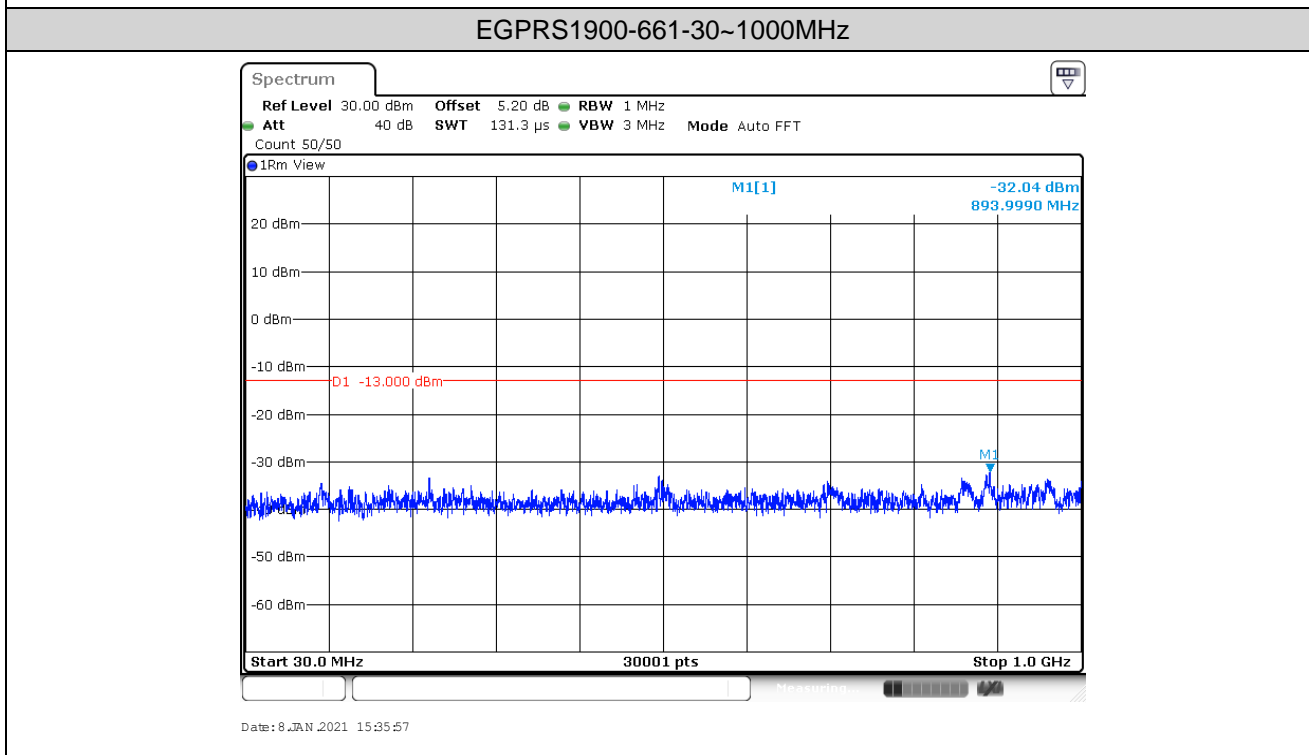
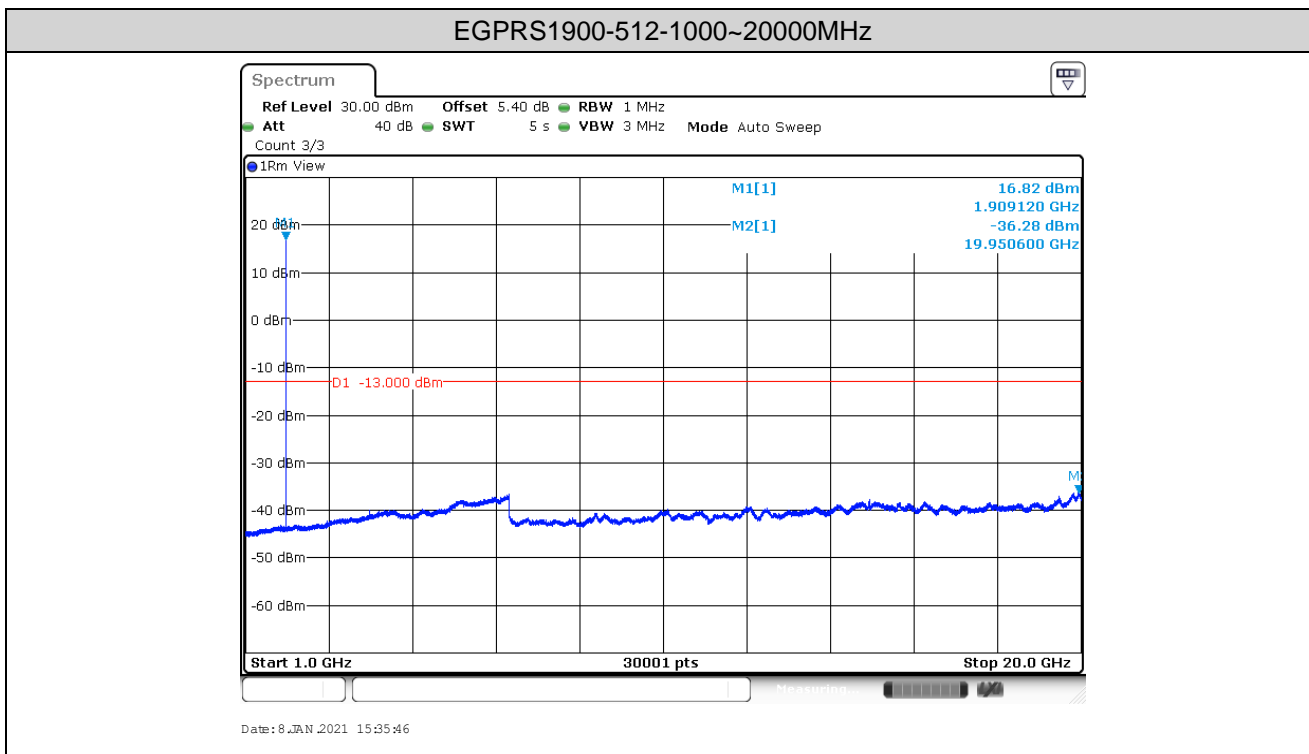
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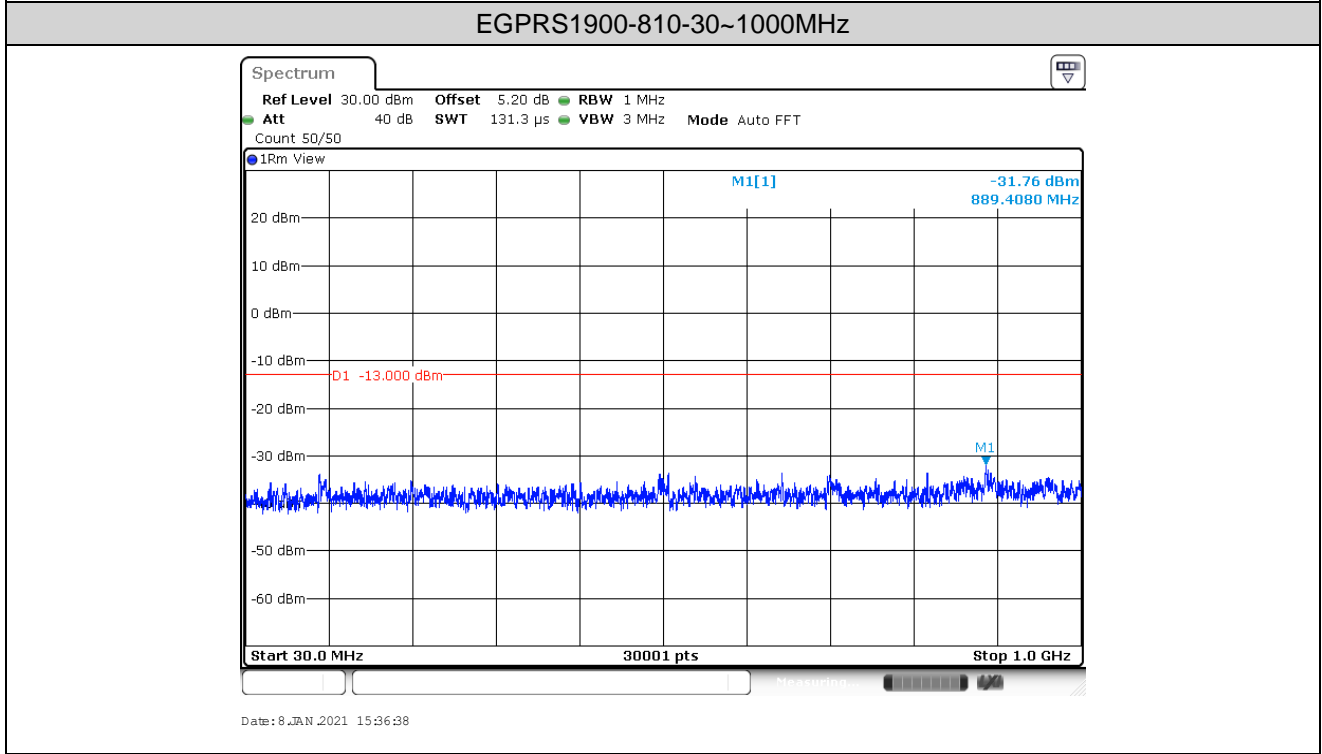
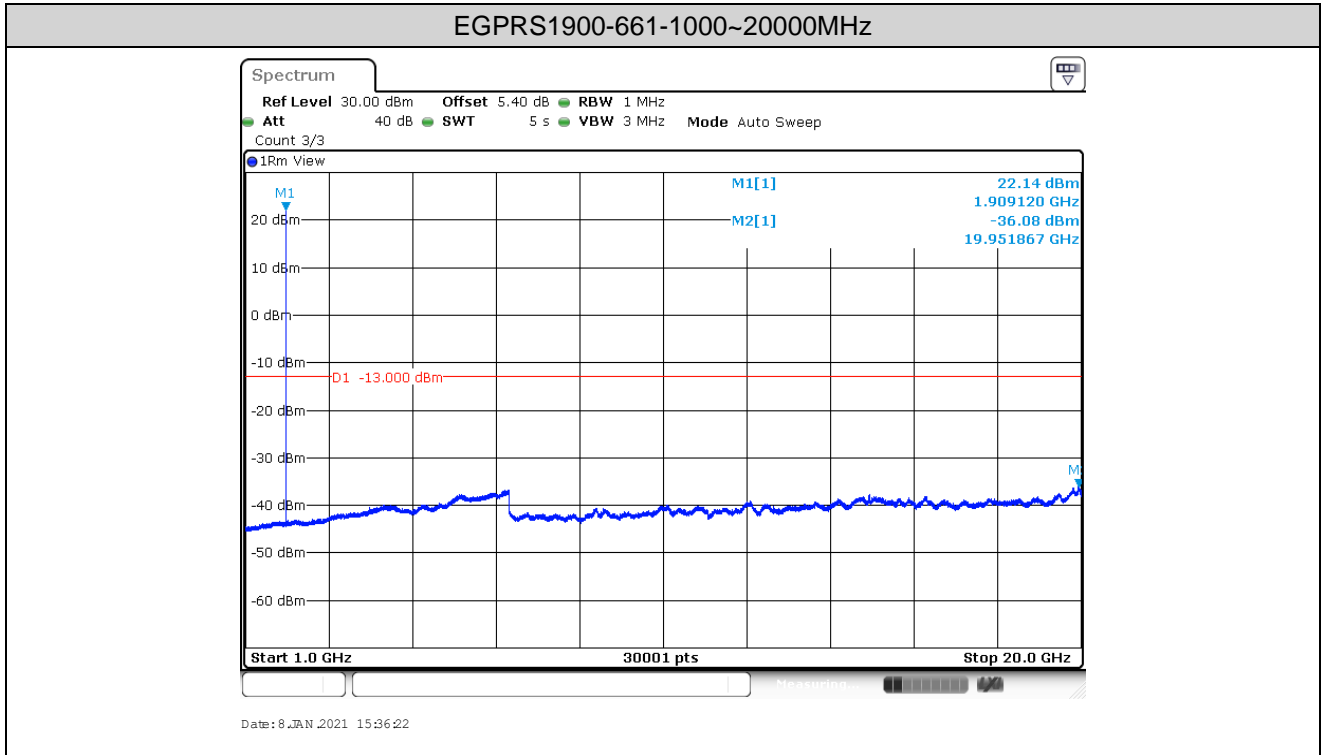
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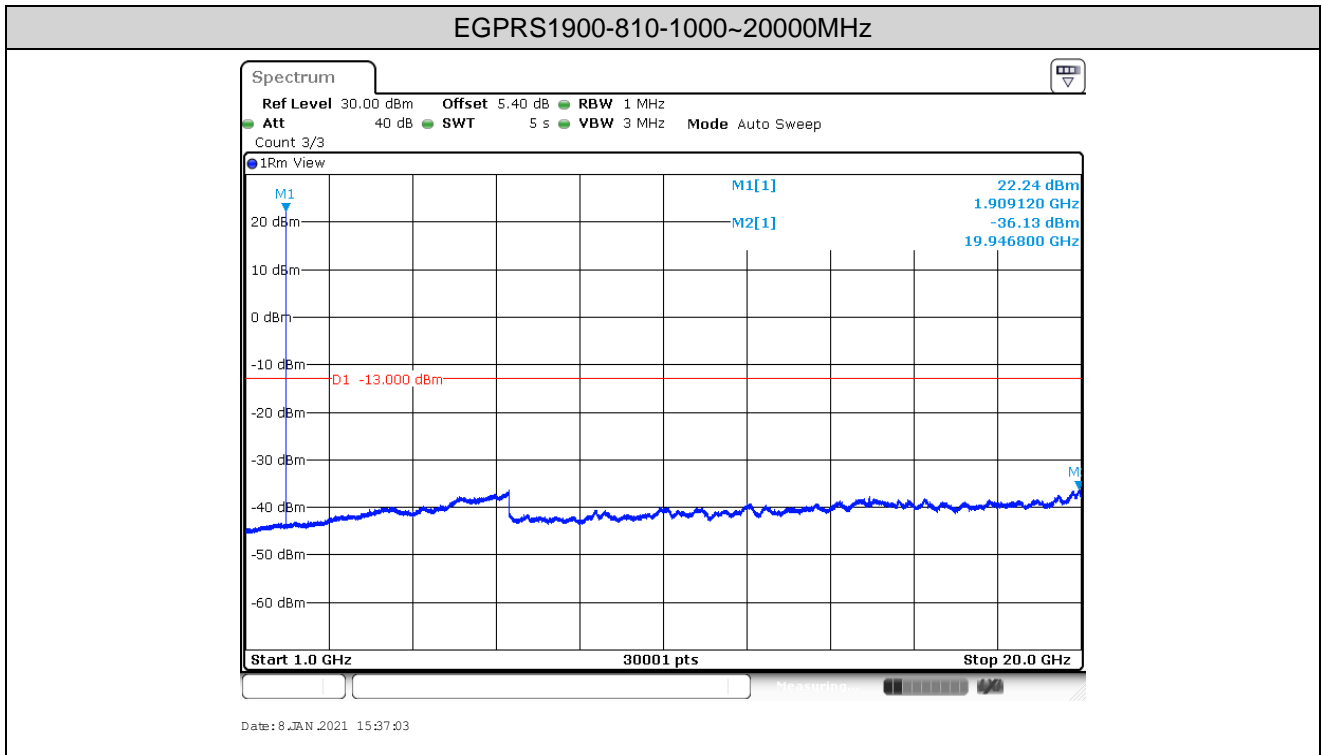
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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM_850

7.1.1. Test Channel = Low Channel

| Suspected Data List | | | | | |
|---------------------|-------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 45.4723 | -63.39 | -13.00 | 50.39 | Horizontal |
| 2 | 99.3100 | -73.62 | -13.00 | 60.62 | Horizontal |
| 3 | 244.0412 | -66.95 | -13.00 | 53.95 | Horizontal |
| 4 | 1648.5297 | -42.21 | -13.00 | 29.21 | Horizontal |
| 5 | 2472.6945 | -30.28 | -13.00 | 17.28 | Horizontal |
| 6 | 4120.9707 | -58.17 | -13.00 | 45.17 | Horizontal |



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7.2. Test Band = GSM_850

7.2.1. Test Channel = Low Channel

| Suspected Data List | | | | | |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 31.0186 | -70.77 | -13.00 | 57.77 | Vertical |
| 2 | 113.1817 | -62.98 | -13.00 | 49.98 | Vertical |
| 3 | 459.6345 | -64.87 | -13.00 | 51.87 | Vertical |
| 4 | 1648.1296 | -51.46 | -13.00 | 38.46 | Vertical |
| 5 | 2472.6945 | -38.62 | -13.00 | 25.62 | Vertical |
| 6 | 4121.2040 | -58.91 | -13.00 | 45.91 | Vertical |



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7.3. Test Band = GSM_850

7.3.1. Test Channel = Mid Channel

| Suspected Data List | | | | | |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 42.0286 | -62.70 | -13.00 | 49.70 | Horizontal |
| 2 | 86.1658 | -74.05 | -13.00 | 61.05 | Horizontal |
| 3 | 249.3765 | -67.33 | -13.00 | 54.33 | Horizontal |
| 4 | 1672.9346 | -48.50 | -13.00 | 35.50 | Horizontal |
| 5 | 2509.9020 | -36.90 | -13.00 | 23.90 | Horizontal |
| 6 | 4183.0394 | -60.71 | -13.00 | 47.71 | Horizontal |



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7.4. Test Band = GSM_850

7.4.1. Test Channel = Mid Channel

| Suspected Data List | | | | | |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 30.6790 | -70.89 | -13.00 | 57.89 | Vertical |
| 2 | 107.8949 | -63.34 | -13.00 | 50.34 | Vertical |
| 3 | 456.8698 | -65.52 | -13.00 | 52.52 | Vertical |
| 4 | 1673.3347 | -51.31 | -13.00 | 38.31 | Vertical |
| 5 | 2509.9020 | -39.42 | -13.00 | 26.42 | Vertical |
| 6 | 4183.0394 | -57.25 | -13.00 | 44.25 | Vertical |



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7.5. Test Band = GSM_850

7.5.1. Test Channel = High Channel

| Suspected Data List | | | | | |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 39.5065 | -62.34 | -13.00 | 49.34 | Horizontal |
| 2 | 239.9670 | -66.95 | -13.00 | 53.95 | Horizontal |
| 3 | 1697.7395 | -50.36 | -13.00 | 37.36 | Horizontal |
| 4 | 2546.3093 | -37.81 | -13.00 | 24.81 | Horizontal |
| 5 | 3395.5132 | -57.01 | -13.00 | 44.01 | Horizontal |
| 6 | 9302.3101 | -52.68 | -13.00 | 39.68 | Horizontal |



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7.6. Test Band = GSM_850

7.6.1. Test Channel = High Channel

| Suspected Data List | | | | | |
|---------------------|-------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 30.5820 | -70.78 | -13.00 | 57.78 | Vertical |
| 2 | 114.4427 | -62.89 | -13.00 | 49.89 | Vertical |
| 3 | 1697.3395 | -52.94 | -13.00 | 39.94 | Vertical |
| 4 | 2546.7093 | -43.39 | -13.00 | 30.39 | Vertical |
| 5 | 3395.0465 | -59.45 | -13.00 | 46.45 | Vertical |
| 6 | 4243.9415 | -58.84 | -13.00 | 45.84 | Vertical |



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7.7. Test Band = GSM_1900

7.7.1. Test Channel = Low Channel

| Suspected Data List | | | | | |
|---------------------|-------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 39.4580 | -63.83 | -13.00 | 50.83 | Horizontal |
| 2 | 233.3222 | -67.77 | -13.00 | 54.77 | Horizontal |
| 3 | 740.3180 | -60.26 | -13.00 | 47.26 | Horizontal |
| 4 | 3700.5234 | -60.50 | -13.00 | 47.50 | Horizontal |
| 5 | 7446.6482 | -56.78 | -13.00 | 43.78 | Horizontal |
| 6 | 16397.446 | -44.95 | -13.00 | 31.95 | Horizontal |



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7.8. Test Band = GSM_1900

7.8.1. Test Channel = Low Channel

| Suspected Data List | | | | | |
|---------------------|-------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 31.0186 | -71.14 | -13.00 | 58.14 | Vertical |
| 2 | 112.5511 | -63.51 | -13.00 | 50.51 | Vertical |
| 3 | 591.4641 | -62.49 | -13.00 | 49.49 | Vertical |
| 4 | 3700.5234 | -57.11 | -13.00 | 44.11 | Vertical |
| 5 | 7434.6478 | -55.94 | -13.00 | 42.94 | Vertical |
| 6 | 17999.500 | -40.75 | -13.00 | 27.75 | Vertical |



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7.9. Test Band = GSM_1900

7.9.1. Test Channel = Mid Channel

| Suspected Data List | | | | | |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 41.4466 | -62.89 | -13.00 | 49.89 | Horizontal |
| 2 | 98.8734 | -74.75 | -13.00 | 61.75 | Horizontal |
| 3 | 244.6717 | -68.30 | -13.00 | 55.30 | Horizontal |
| 4 | 3760.0253 | -59.69 | -13.00 | 46.69 | Horizontal |
| 5 | 7451.1484 | -56.53 | -13.00 | 43.53 | Horizontal |
| 6 | 16400.446 | -44.54 | -13.00 | 31.54 | Horizontal |



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7.10. Test Band = GSM_1900

7.10.1. Test Channel = Mid Channel

| Suspected Data List | | | | | |
|---------------------|-------------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 30.8245 | -70.38 | -13.00 | 57.38 | Vertical |
| 2 | 112.9876 | -64.04 | -13.00 | 51.04 | Vertical |
| 3 | 624.1547 | -63.15 | -13.00 | 50.15 | Vertical |
| 4 | 3760.0253 | -60.92 | -13.00 | 47.92 | Vertical |
| 5 | 7433.1478 | -55.76 | -13.00 | 42.76 | Vertical |
| 6 | 17999.000 | -41.09 | -13.00 | 28.09 | Vertical |



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7.11. Test Band = GSM_1900

7.11.1. Test Channel = High Channel

| Suspected Data List | | | | | |
|---------------------|-------------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 41.2526 | -62.73 | -13.00 | 49.73 | Horizontal |
| 2 | 99.6010 | -75.02 | -13.00 | 62.02 | Horizontal |
| 3 | 232.1581 | -68.60 | -13.00 | 55.60 | Horizontal |
| 4 | 3599.0200 | -60.70 | -13.00 | 47.70 | Horizontal |
| 5 | 7459.6487 | -56.82 | -13.00 | 43.82 | Horizontal |
| 6 | 16391.946 | -44.82 | -13.00 | 31.82 | Horizontal |



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7.12. Test Band = GSM_1900

7.12.1. Test Channel = High Channel

| Suspected Data List | | | | | |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO. | Freq. [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 30.8245 | -70.28 | -13.00 | 57.28 | Vertical |
| 2 | 113.5697 | -63.60 | -13.00 | 50.60 | Vertical |
| 3 | 625.2218 | -62.08 | -13.00 | 49.08 | Vertical |
| 4 | 3707.5236 | -61.66 | -13.00 | 48.66 | Vertical |
| 5 | 7353.6451 | -56.12 | -13.00 | 43.12 | Vertical |
| 6 | 17996.499 | -40.98 | -13.00 | 27.98 | Vertical |

Remark:

- 1) According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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8. Frequency Stability

8.1. Frequency Error Vs Voltage

| Voltage | | | | | | | |
|-----------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850 | 128 | VL | NT | -28.80 | -0.034943 | ±2.5 | PASS |
| GSM850 | 128 | VN | NT | -29.15 | -0.035368 | ±2.5 | PASS |
| GSM850 | 128 | VH | NT | -31.45 | -0.038158 | ±2.5 | PASS |
| GSM850 | 190 | VL | NT | -25.93 | -0.030995 | ±2.5 | PASS |
| GSM850 | 190 | VN | NT | -23.08 | -0.027588 | ±2.5 | PASS |
| GSM850 | 190 | VH | NT | -21.08 | -0.025197 | ±2.5 | PASS |
| GSM850 | 251 | VL | NT | -27.67 | -0.032599 | ±2.5 | PASS |
| GSM850 | 251 | VN | NT | -27.15 | -0.031986 | ±2.5 | PASS |
| GSM850 | 251 | VH | NT | -26.47 | -0.031185 | ±2.5 | PASS |
| EGPRS850 | 128 | VL | NT | -5.97 | -0.007243 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | NT | -7.49 | -0.009088 | ±2.5 | PASS |
| EGPRS850 | 128 | VH | NT | -8.10 | -0.009828 | ±2.5 | PASS |
| EGPRS850 | 190 | VL | NT | -5.59 | -0.006682 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | NT | -7.43 | -0.008881 | ±2.5 | PASS |
| EGPRS850 | 190 | VH | NT | -5.52 | -0.006598 | ±2.5 | PASS |
| EGPRS850 | 251 | VL | NT | -8.98 | -0.010580 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | NT | -8.07 | -0.009508 | ±2.5 | PASS |
| EGPRS850 | 251 | VH | NT | -7.62 | -0.008977 | ±2.5 | PASS |
| GSM1900 | 512 | VL | NT | -31.06 | -0.016787 | ±2.5 | PASS |
| GSM1900 | 512 | VN | NT | -30.03 | -0.016231 | ±2.5 | PASS |
| GSM1900 | 512 | VH | NT | -34.13 | -0.018447 | ±2.5 | PASS |
| GSM1900 | 661 | VL | NT | -30.09 | -0.016005 | ±2.5 | PASS |
| GSM1900 | 661 | VN | NT | -34.64 | -0.018426 | ±2.5 | PASS |
| GSM1900 | 661 | VH | NT | -33.93 | -0.018048 | ±2.5 | PASS |
| GSM1900 | 810 | VL | NT | -28.99 | -0.015180 | ±2.5 | PASS |
| GSM1900 | 810 | VN | NT | -27.41 | -0.014352 | ±2.5 | PASS |
| GSM1900 | 810 | VH | NT | -30.67 | -0.016059 | ±2.5 | PASS |
| EGPRS1900 | 512 | VL | NT | -10.04 | -0.005426 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | NT | -11.53 | -0.006232 | ±2.5 | PASS |
| EGPRS1900 | 512 | VH | NT | -12.43 | -0.006718 | ±2.5 | PASS |



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| | | | | | | | |
|-----------|-----|----|----|--------|-----------|------|------|
| EGPRS1900 | 661 | VL | NT | -11.04 | -0.005872 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | NT | -13.11 | -0.006973 | ±2.5 | PASS |
| EGPRS1900 | 661 | VH | NT | -12.24 | -0.006511 | ±2.5 | PASS |
| EGPRS1900 | 810 | VL | NT | -8.75 | -0.004582 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | NT | -9.46 | -0.004953 | ±2.5 | PASS |
| EGPRS1900 | 810 | VH | NT | -8.52 | -0.004461 | ±2.5 | PASS |

8.2. Frequency Error Vs Temperature

| Temperature | | | | | | | |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850 | 128 | NV | -30 | -26.89 | -0.032626 | ±2.5 | PASS |
| GSM850 | 128 | NV | -20 | -32.93 | -0.039954 | ±2.5 | PASS |
| GSM850 | 128 | NV | -10 | -28.54 | -0.034628 | ±2.5 | PASS |
| GSM850 | 128 | NV | 0 | -32.06 | -0.038898 | ±2.5 | PASS |
| GSM850 | 128 | NV | 10 | -31.51 | -0.038231 | ±2.5 | PASS |
| GSM850 | 128 | NV | 20 | -27.35 | -0.033184 | ±2.5 | PASS |
| GSM850 | 128 | NV | 30 | -33.00 | -0.040039 | ±2.5 | PASS |
| GSM850 | 128 | NV | 40 | -29.41 | -0.035683 | ±2.5 | PASS |
| GSM850 | 128 | NV | 50 | -33.90 | -0.041131 | ±2.5 | PASS |
| GSM850 | 190 | NV | -30 | -28.41 | -0.033959 | ±2.5 | PASS |
| GSM850 | 190 | NV | -20 | -25.96 | -0.031030 | ±2.5 | PASS |
| GSM850 | 190 | NV | -10 | -26.96 | -0.032226 | ±2.5 | PASS |
| GSM850 | 190 | NV | 0 | -27.02 | -0.032297 | ±2.5 | PASS |
| GSM850 | 190 | NV | 10 | -24.41 | -0.029178 | ±2.5 | PASS |
| GSM850 | 190 | NV | 20 | -28.15 | -0.033648 | ±2.5 | PASS |
| GSM850 | 190 | NV | 30 | -21.92 | -0.026201 | ±2.5 | PASS |
| GSM850 | 190 | NV | 40 | -22.73 | -0.027169 | ±2.5 | PASS |
| GSM850 | 190 | NV | 50 | -24.34 | -0.029094 | ±2.5 | PASS |
| GSM850 | 251 | NV | -30 | -23.25 | -0.027392 | ±2.5 | PASS |
| GSM850 | 251 | NV | -20 | -28.12 | -0.033129 | ±2.5 | PASS |
| GSM850 | 251 | NV | -10 | -28.80 | -0.033930 | ±2.5 | PASS |
| GSM850 | 251 | NV | 0 | -28.35 | -0.033400 | ±2.5 | PASS |
| GSM850 | 251 | NV | 10 | -26.47 | -0.031185 | ±2.5 | PASS |
| GSM850 | 251 | NV | 20 | -27.93 | -0.032905 | ±2.5 | PASS |
| GSM850 | 251 | NV | 30 | -25.09 | -0.029559 | ±2.5 | PASS |
| GSM850 | 251 | NV | 40 | -24.60 | -0.028982 | ±2.5 | PASS |



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| | | | | | | | |
|----------|-----|----|-----|--------|-----------|------|------|
| GSM850 | 251 | NV | 50 | -24.02 | -0.028299 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | -30 | -6.78 | -0.008226 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | -20 | -7.10 | -0.008614 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | -10 | -7.91 | -0.009597 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 0 | -6.78 | -0.008226 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 10 | -5.55 | -0.006734 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 20 | -5.97 | -0.007243 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 30 | -5.81 | -0.007049 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 40 | -6.78 | -0.008226 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 50 | -6.07 | -0.007365 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | -30 | -6.91 | -0.008260 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | -20 | -7.59 | -0.009072 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | -10 | -7.30 | -0.008726 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 0 | -6.91 | -0.008260 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 10 | -8.20 | -0.009802 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 20 | -8.04 | -0.009610 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 30 | -7.59 | -0.009072 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 40 | -7.59 | -0.009072 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 50 | -6.91 | -0.008260 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | -30 | -8.04 | -0.009472 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | -20 | -8.56 | -0.010085 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | -10 | -8.04 | -0.009472 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 0 | -8.39 | -0.009885 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 10 | -7.91 | -0.009319 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 20 | -7.30 | -0.008600 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 30 | -10.17 | -0.011982 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 40 | -10.62 | -0.012512 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 50 | -8.98 | -0.010580 | ±2.5 | PASS |
| GSM1900 | 512 | NV | -30 | -29.12 | -0.015739 | ±2.5 | PASS |
| GSM1900 | 512 | NV | -20 | -28.67 | -0.015496 | ±2.5 | PASS |
| GSM1900 | 512 | NV | -10 | -30.35 | -0.016404 | ±2.5 | PASS |
| GSM1900 | 512 | NV | 0 | -29.61 | -0.016004 | ±2.5 | PASS |
| GSM1900 | 512 | NV | 10 | -30.22 | -0.016333 | ±2.5 | PASS |
| GSM1900 | 512 | NV | 20 | -32.90 | -0.017782 | ±2.5 | PASS |
| GSM1900 | 512 | NV | 30 | -34.71 | -0.018760 | ±2.5 | PASS |
| GSM1900 | 512 | NV | 40 | -32.83 | -0.017744 | ±2.5 | PASS |
| GSM1900 | 512 | NV | 50 | -30.48 | -0.016474 | ±2.5 | PASS |



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| | | | | | | | |
|-----------|-----|----|-----|--------|-----------|------|------|
| GSM1900 | 661 | NV | -30 | -32.71 | -0.017399 | ±2.5 | PASS |
| GSM1900 | 661 | NV | -20 | -30.25 | -0.016090 | ±2.5 | PASS |
| GSM1900 | 661 | NV | -10 | -34.45 | -0.018324 | ±2.5 | PASS |
| GSM1900 | 661 | NV | 0 | -31.12 | -0.016553 | ±2.5 | PASS |
| GSM1900 | 661 | NV | 10 | -34.00 | -0.018085 | ±2.5 | PASS |
| GSM1900 | 661 | NV | 20 | -32.87 | -0.017484 | ±2.5 | PASS |
| GSM1900 | 661 | NV | 30 | -28.80 | -0.015319 | ±2.5 | PASS |
| GSM1900 | 661 | NV | 40 | -32.06 | -0.017053 | ±2.5 | PASS |
| GSM1900 | 661 | NV | 50 | -32.41 | -0.017239 | ±2.5 | PASS |
| GSM1900 | 810 | NV | -30 | -27.80 | -0.014556 | ±2.5 | PASS |
| GSM1900 | 810 | NV | -20 | -26.73 | -0.013996 | ±2.5 | PASS |
| GSM1900 | 810 | NV | -10 | -29.67 | -0.015536 | ±2.5 | PASS |
| GSM1900 | 810 | NV | 0 | -30.22 | -0.015824 | ±2.5 | PASS |
| GSM1900 | 810 | NV | 10 | -28.67 | -0.015012 | ±2.5 | PASS |
| GSM1900 | 810 | NV | 20 | -28.83 | -0.015096 | ±2.5 | PASS |
| GSM1900 | 810 | NV | 30 | -27.25 | -0.014269 | ±2.5 | PASS |
| GSM1900 | 810 | NV | 40 | -31.45 | -0.016468 | ±2.5 | PASS |
| GSM1900 | 810 | NV | 50 | -26.18 | -0.013708 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | -30 | -11.69 | -0.006318 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | -20 | -12.37 | -0.006686 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | -10 | -16.11 | -0.008707 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 0 | -13.37 | -0.007226 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 10 | -14.17 | -0.007659 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 20 | -14.82 | -0.008010 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 30 | -13.14 | -0.007102 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 40 | -12.30 | -0.006648 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 50 | -11.62 | -0.006280 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | -30 | -14.11 | -0.007505 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | -20 | -14.98 | -0.007968 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | -10 | -11.07 | -0.005888 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 0 | -12.04 | -0.006404 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 10 | -10.53 | -0.005601 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 20 | -11.75 | -0.006250 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 30 | -11.17 | -0.005941 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 40 | -11.78 | -0.006266 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 50 | -10.11 | -0.005378 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | -30 | -11.62 | -0.006084 | ±2.5 | PASS |



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| | | | | | | | |
|-----------|-----|----|-----|--------|-----------|------|------|
| EGPRS1900 | 810 | NV | -20 | -9.33 | -0.004885 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | -10 | -9.78 | -0.005121 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 0 | -10.11 | -0.005294 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 10 | -9.30 | -0.004870 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 20 | -8.65 | -0.004529 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 30 | -9.65 | -0.005053 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 40 | -6.88 | -0.003602 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 50 | -9.46 | -0.004953 | ±2.5 | PASS |

The End



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