

Appendix B

GSM850&1900



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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

| BAND | Channel | Power(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|----------|---------|------------|----------|------------|---------|
| GSM850 | 128 | 32.32 | 32.46 | 38.45 | PASS |
| GSM850 | 190 | 32.53 | 32.67 | 38.45 | PASS |
| GSM850 | 251 | 32.20 | 32.34 | 38.45 | PASS |
| EGPRS850 | 128 | 26.51 | 26.65 | 38.45 | PASS |
| EGPRS850 | 190 | 26.67 | 26.81 | 38.45 | PASS |
| EGPRS850 | 251 | 26.67 | 26.81 | 38.45 | PASS |

| BAND | Channel | Power(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|-----------|---------|------------|-----------|------------|---------|
| GSM1900 | 512 | 29.66 | 31.25 | 33.00 | PASS |
| GSM1900 | 661 | 29.41 | 31.00 | 33.00 | PASS |
| GSM1900 | 810 | 29.18 | 30.77 | 33.00 | PASS |
| EGPRS1900 | 512 | 26.20 | 27.79 | 33.00 | PASS |
| EGPRS1900 | 661 | 25.92 | 27.51 | 33.00 | PASS |
| EGPRS1900 | 810 | 25.67 | 27.26 | 33.00 | PASS |

Remark:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

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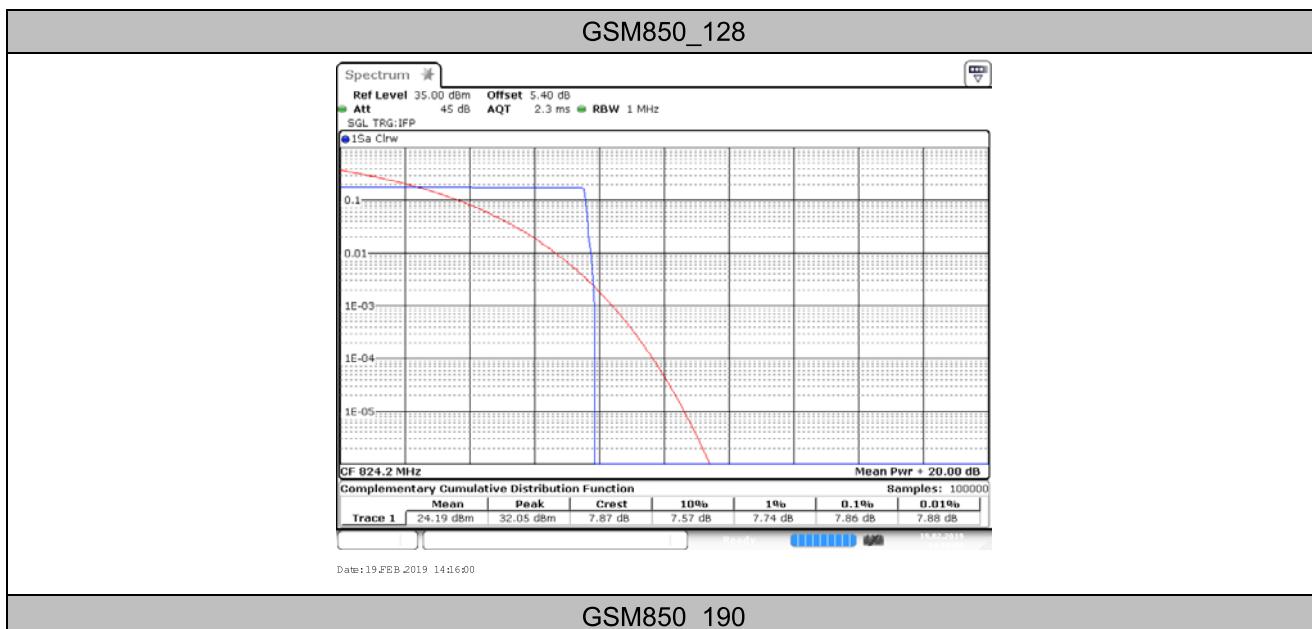
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2. Peak-to-Average Ratio

2.1. Test Result

| BAND | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-----------|---------|---------------------------|-----------|---------|
| GSM850 | 128 | 7.86 | 13 | PASS |
| GSM850 | 190 | 7.91 | 13 | PASS |
| GSM850 | 251 | 7.86 | 13 | PASS |
| EGPRS850 | 128 | 10.64 | 13 | PASS |
| EGPRS850 | 190 | 10.61 | 13 | PASS |
| EGPRS850 | 251 | 7.74 | 13 | PASS |
| GSM1900 | 512 | 7.83 | 13 | PASS |
| GSM1900 | 661 | 7.88 | 13 | PASS |
| GSM1900 | 810 | 7.88 | 13 | PASS |
| EGPRS1900 | 512 | 10.72 | 13 | PASS |
| EGPRS1900 | 661 | 10.32 | 13 | PASS |
| EGPRS1900 | 810 | 10.58 | 13 | PASS |

2.2. Part II - Test Plots



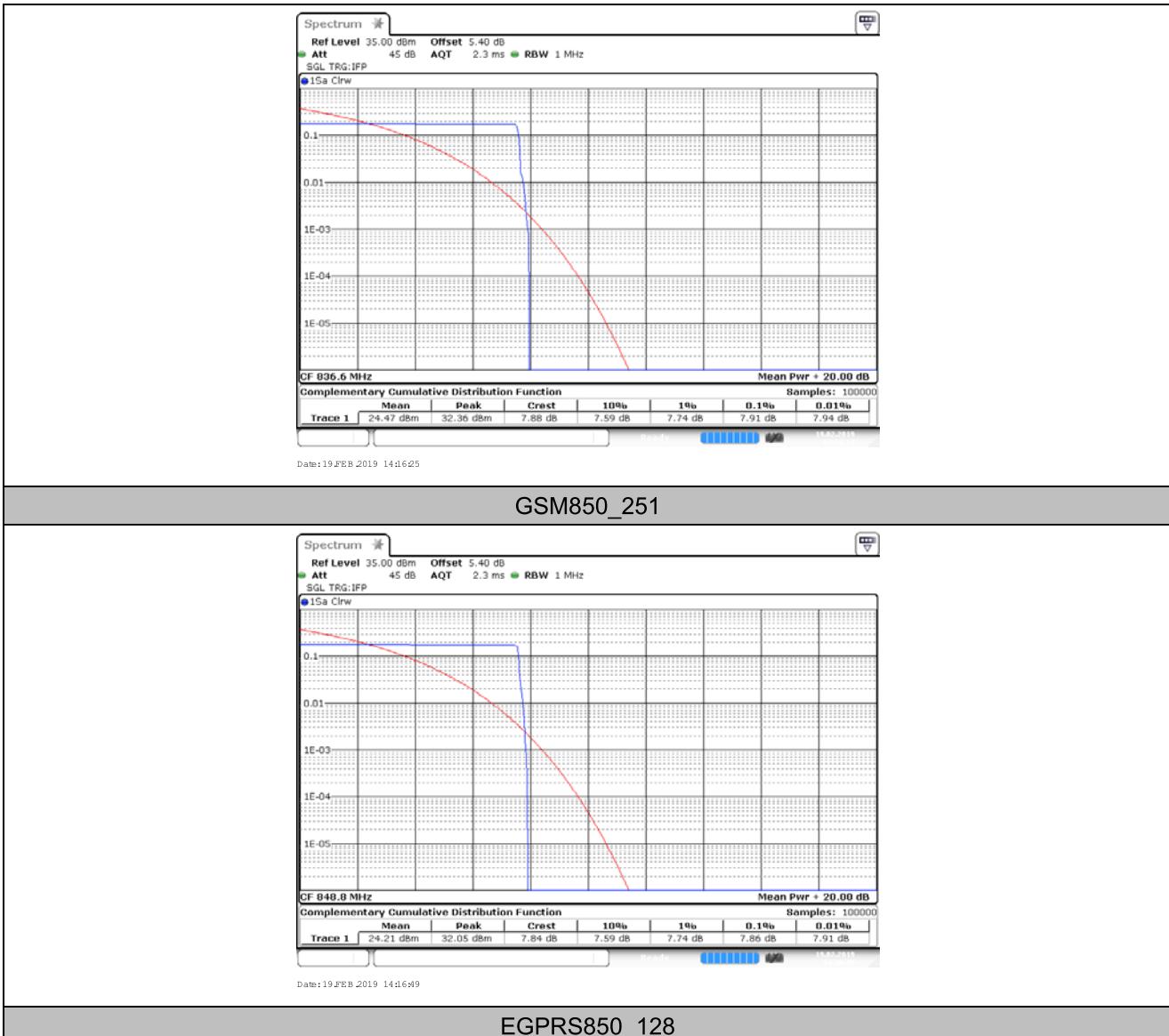
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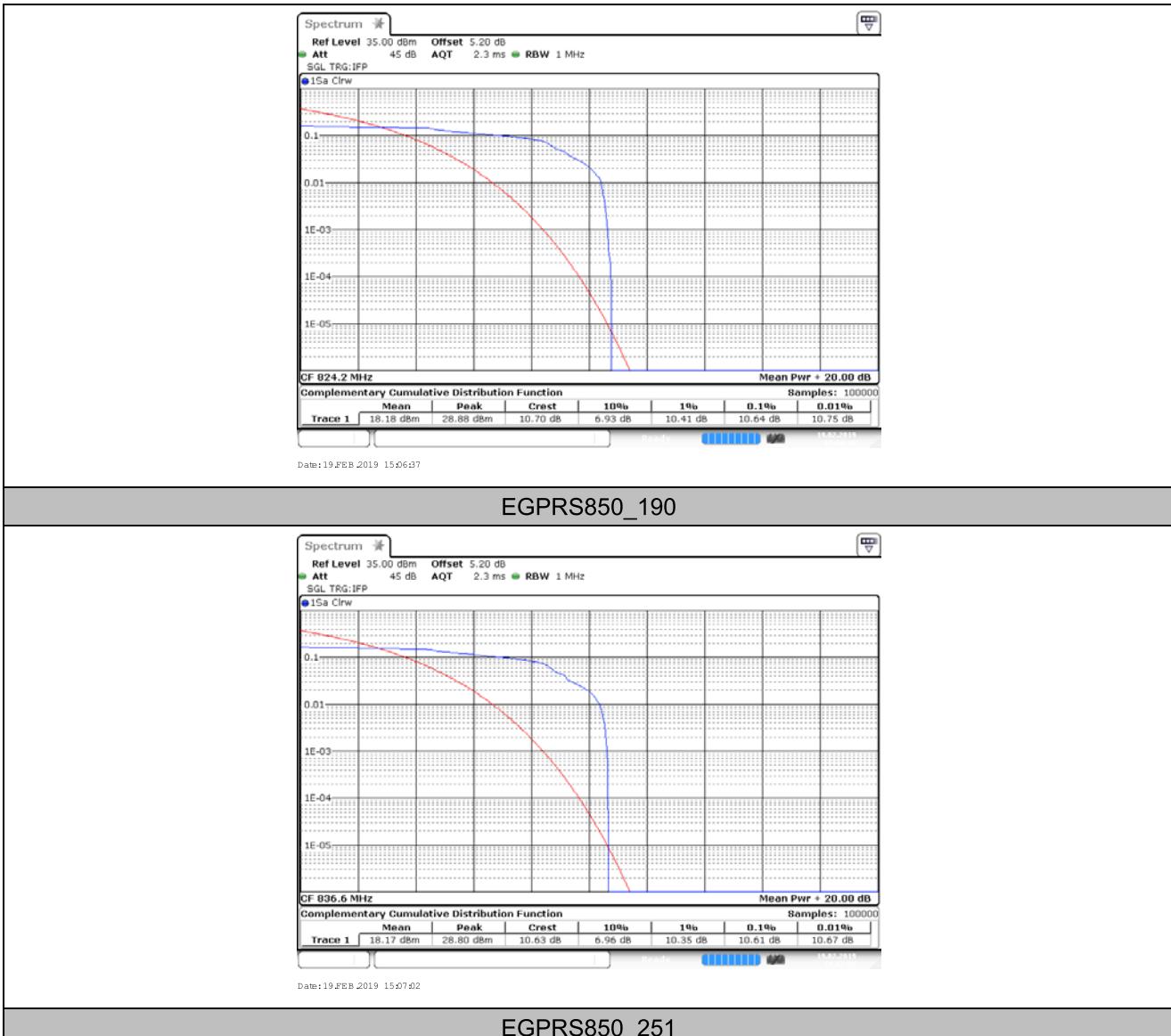
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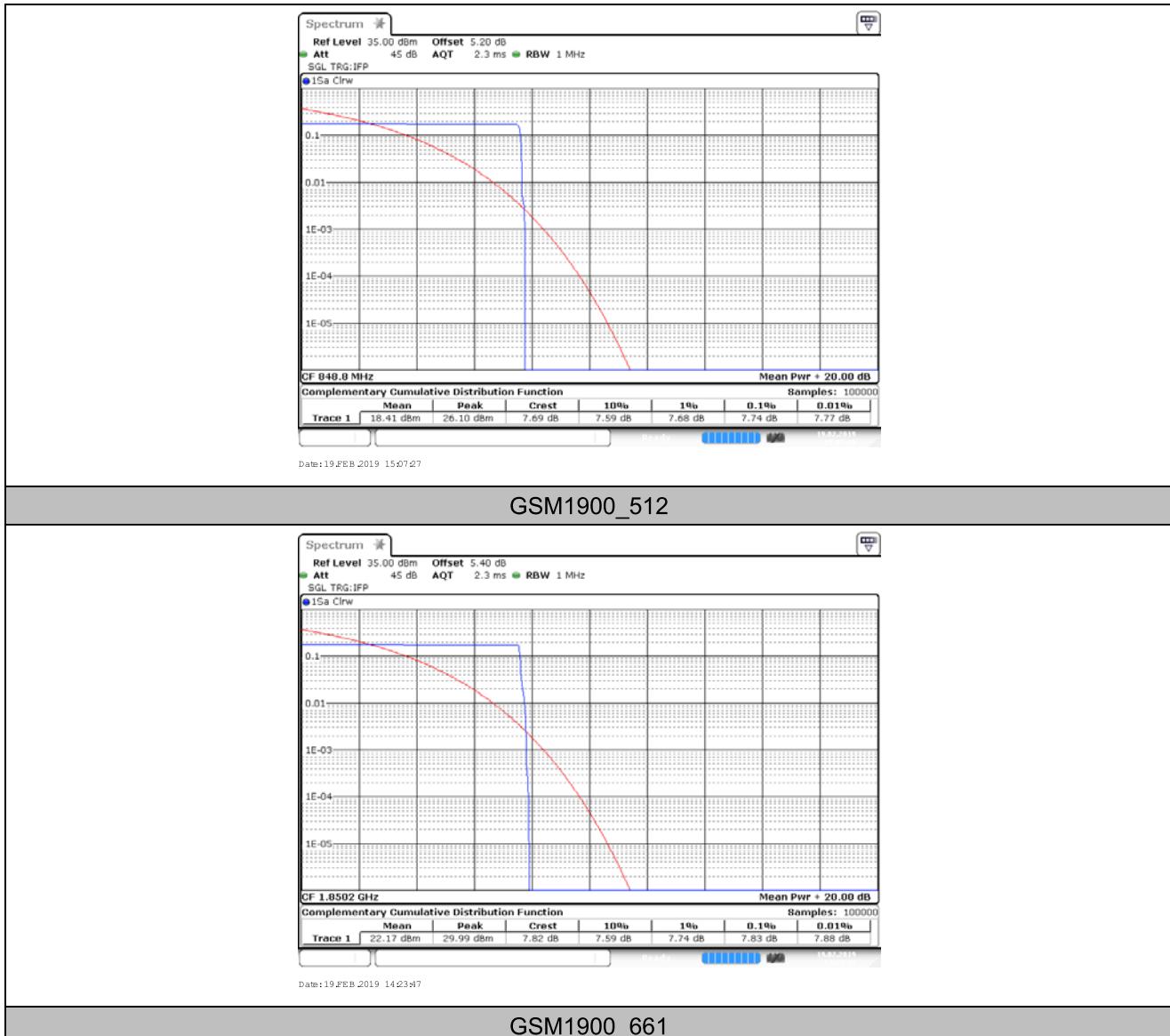
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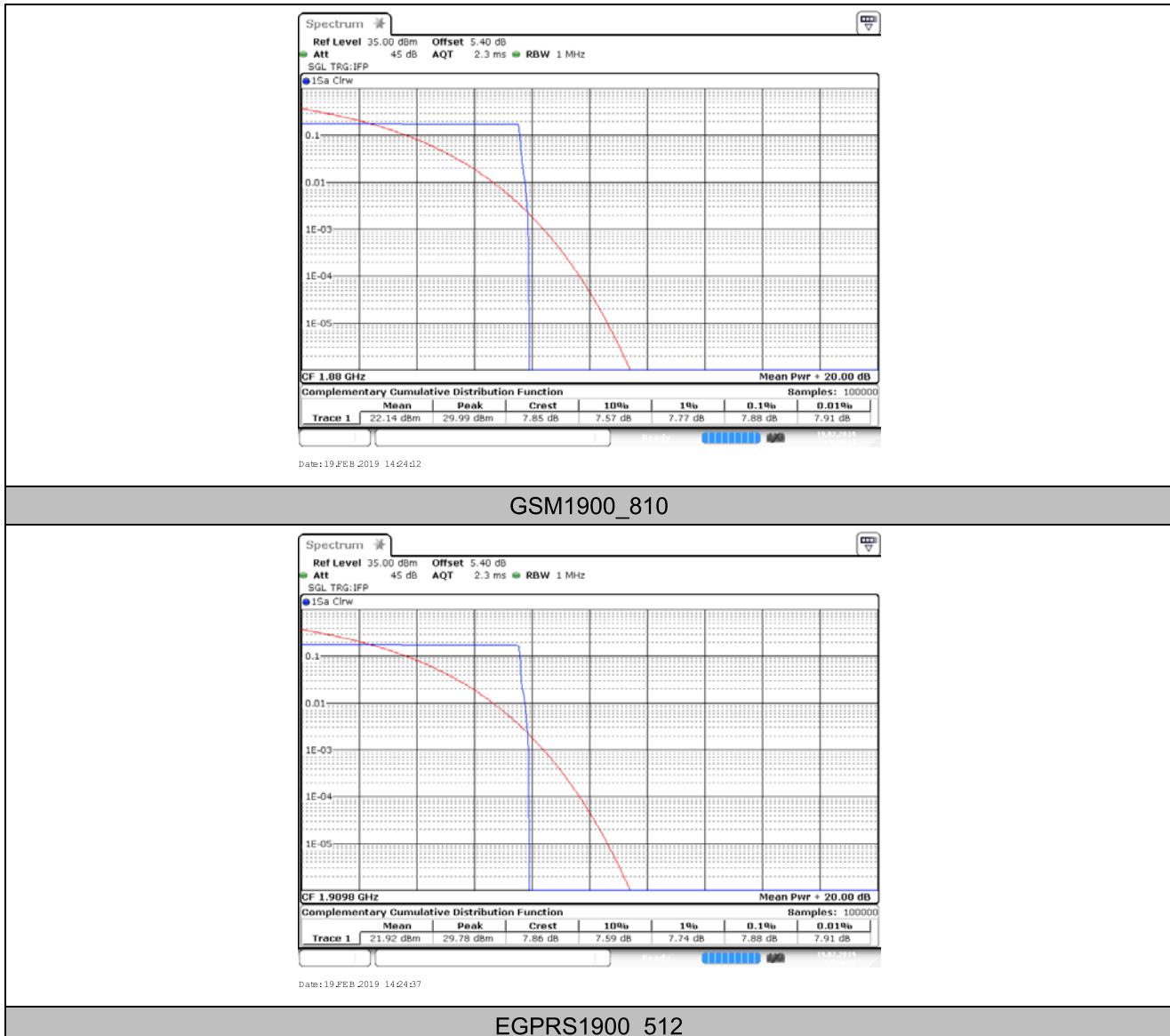
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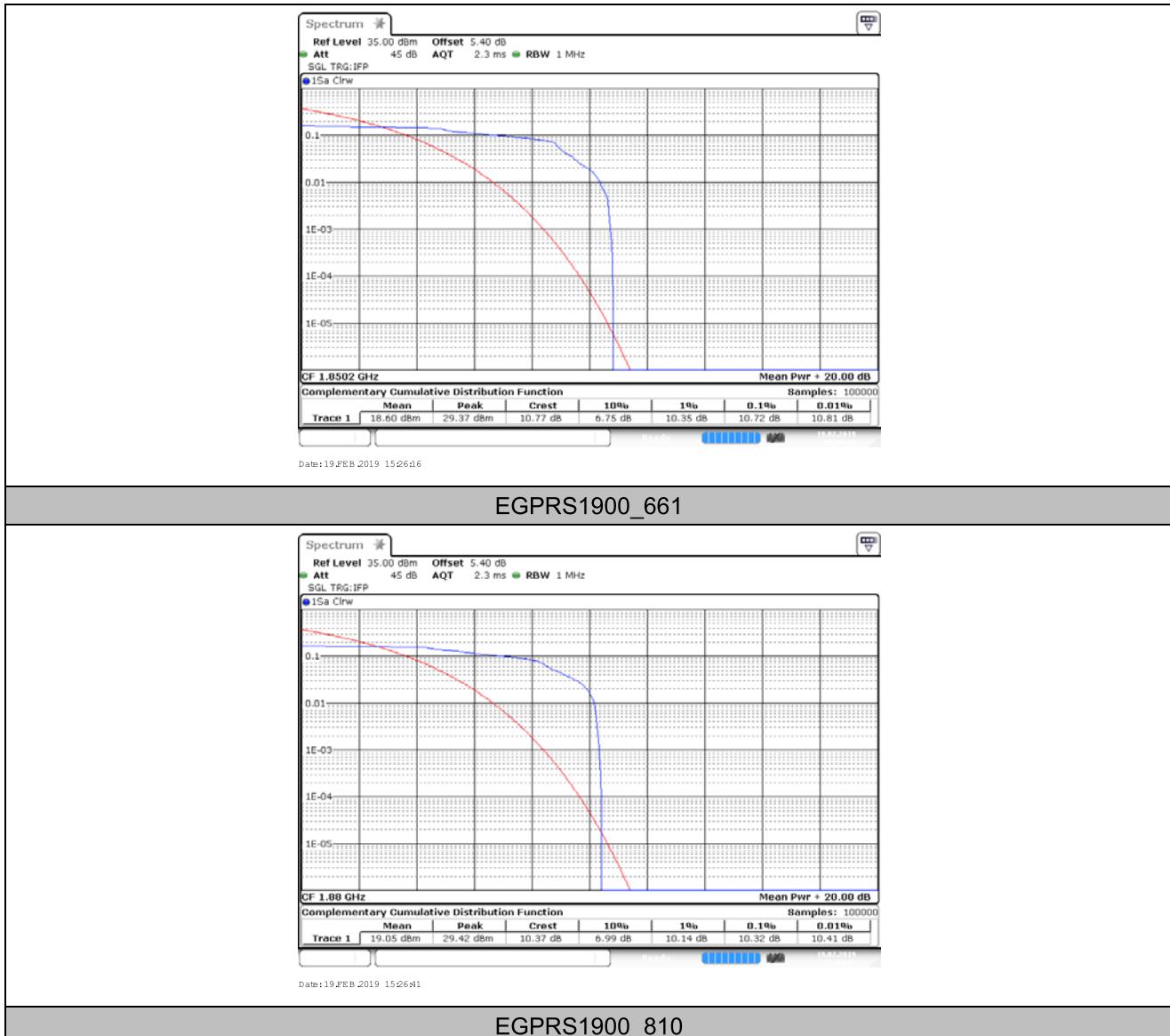
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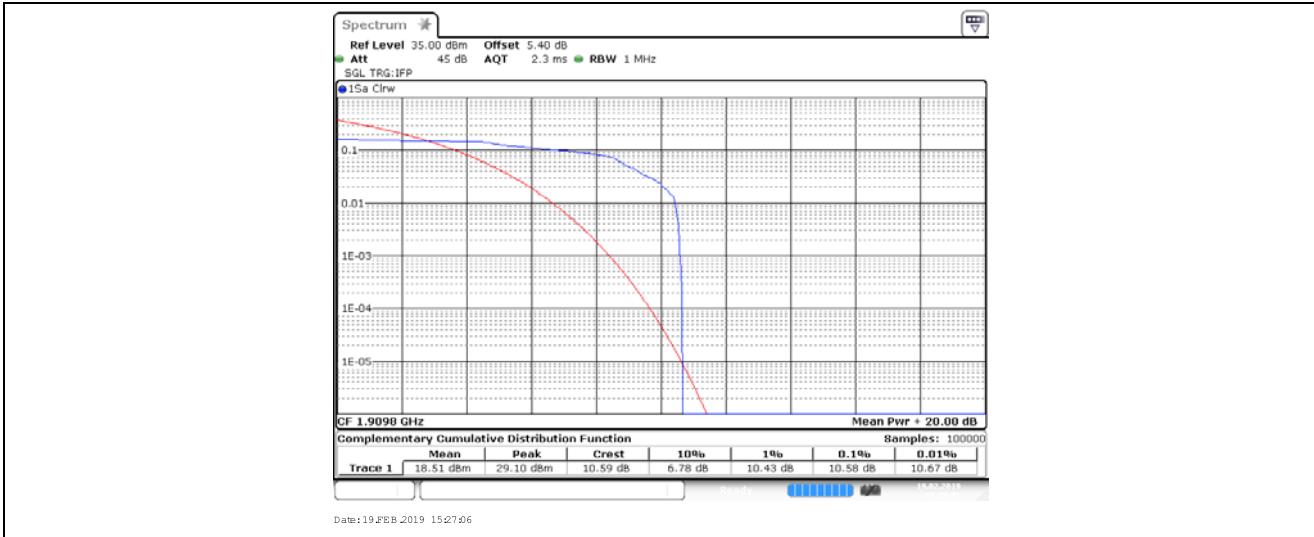
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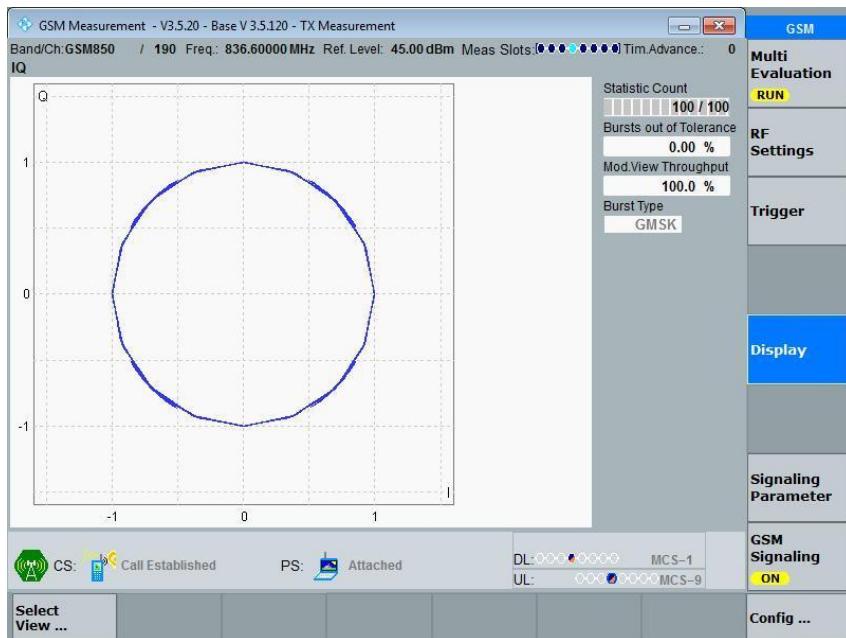
3. Modulation Characteristics

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



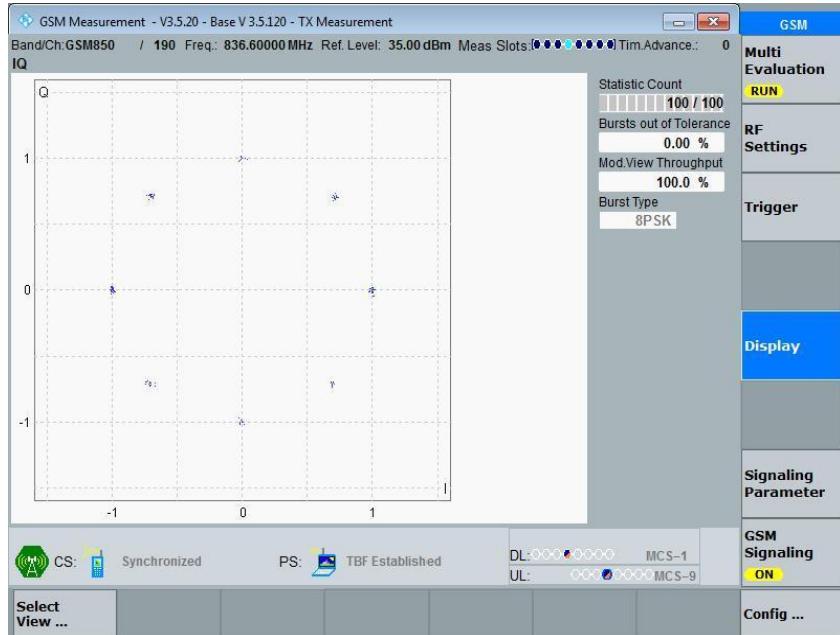
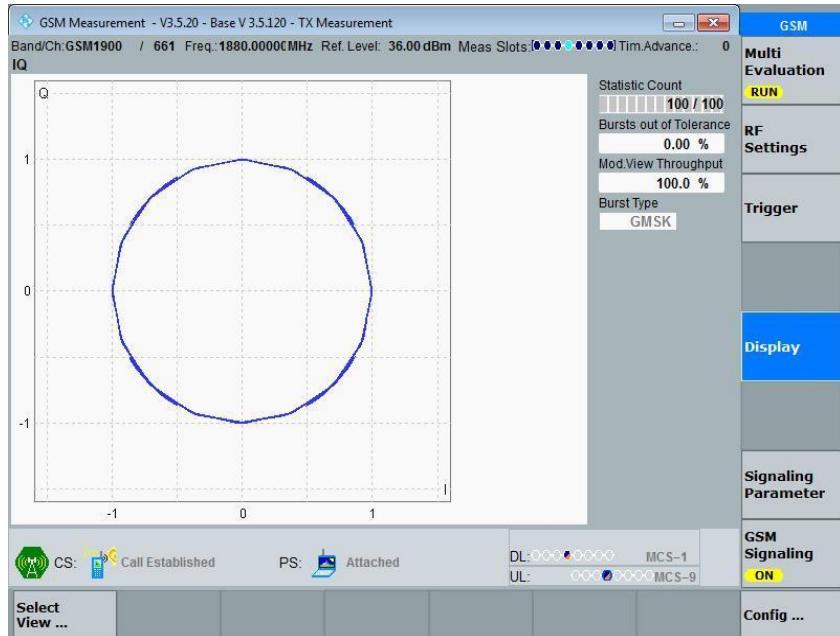
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3.1.1.2. Test Mode = GSM/TM2**3.1.1.2.1. Test Channel = MCH****3.1.2. Test BAND = GSM 1900****3.1.2.1. Test Mode = GSM/TM1****3.1.2.1.1. Test Channel = MCH**

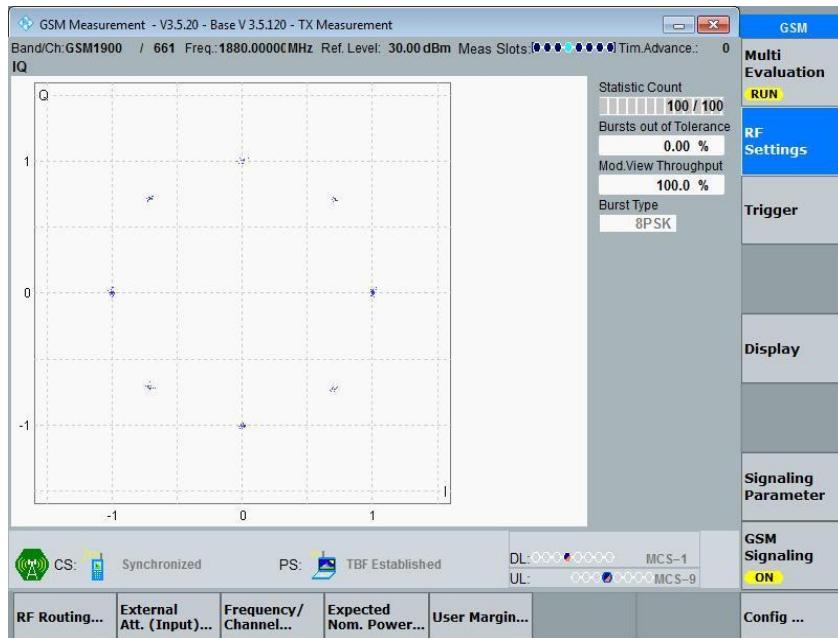
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3.1.2.2. Test Mode = GSM/TM2**3.1.2.2.1. Test Channel = MCH**

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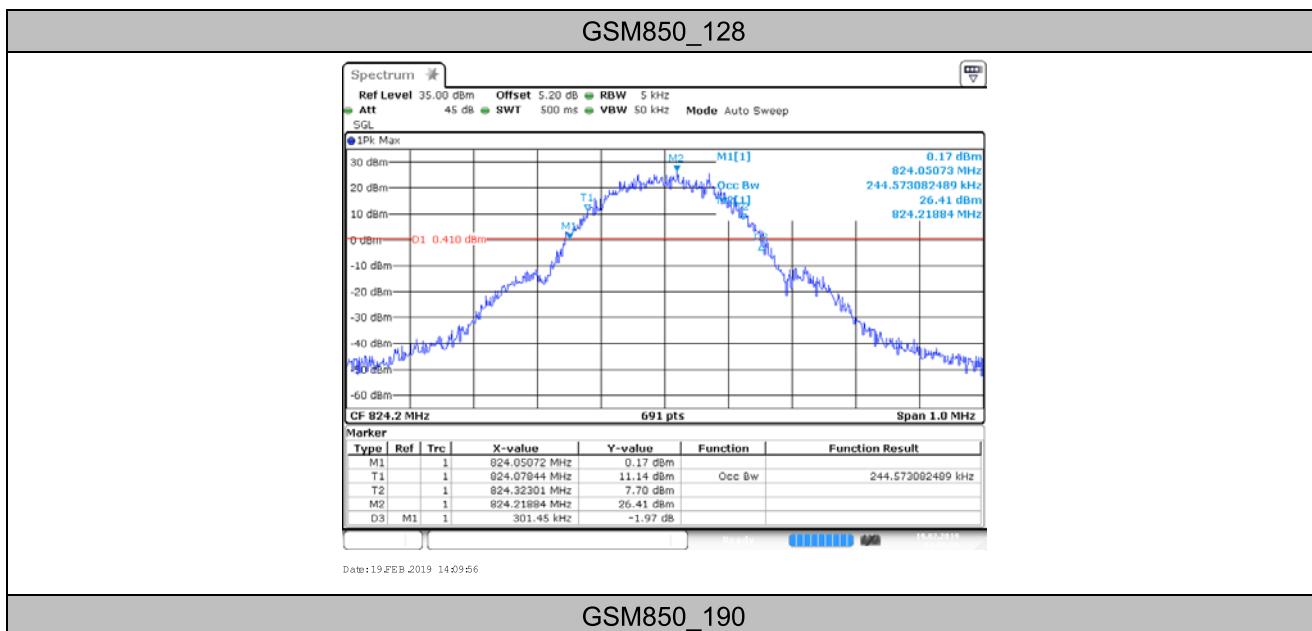


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

| BAND | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-----------|---------|--------------------------|----------------------|------------|---------|
| GSM850 | 128 | 244.57 | 301.45 | --- | PASS |
| GSM850 | 190 | 241.68 | 314.49 | --- | PASS |
| GSM850 | 251 | 247.47 | 295.65 | --- | PASS |
| EGPRS850 | 128 | 244.57 | 307.25 | --- | PASS |
| EGPRS850 | 190 | 240.23 | 294.20 | --- | PASS |
| EGPRS850 | 251 | 244.57 | 295.65 | --- | PASS |
| GSM1900 | 512 | 244.57 | 295.65 | --- | PASS |
| GSM1900 | 661 | 248.91 | 307.25 | --- | PASS |
| GSM1900 | 810 | 243.13 | 304.35 | --- | PASS |
| EGPRS1900 | 512 | 248.91 | 291.30 | --- | PASS |
| EGPRS1900 | 661 | 246.02 | 298.55 | --- | PASS |
| EGPRS1900 | 810 | 247.47 | 305.80 | --- | PASS |

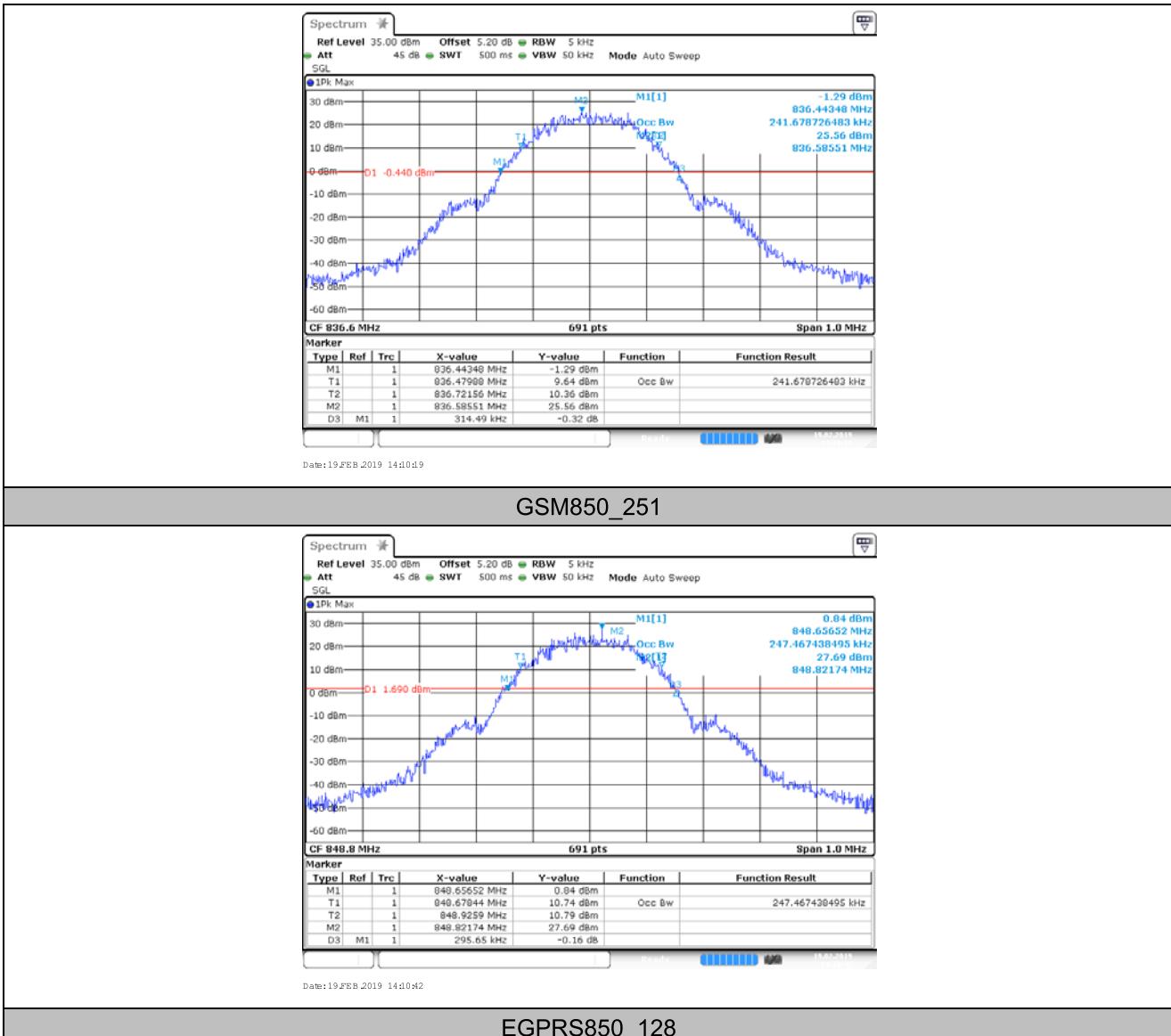
4.2. Test Plots



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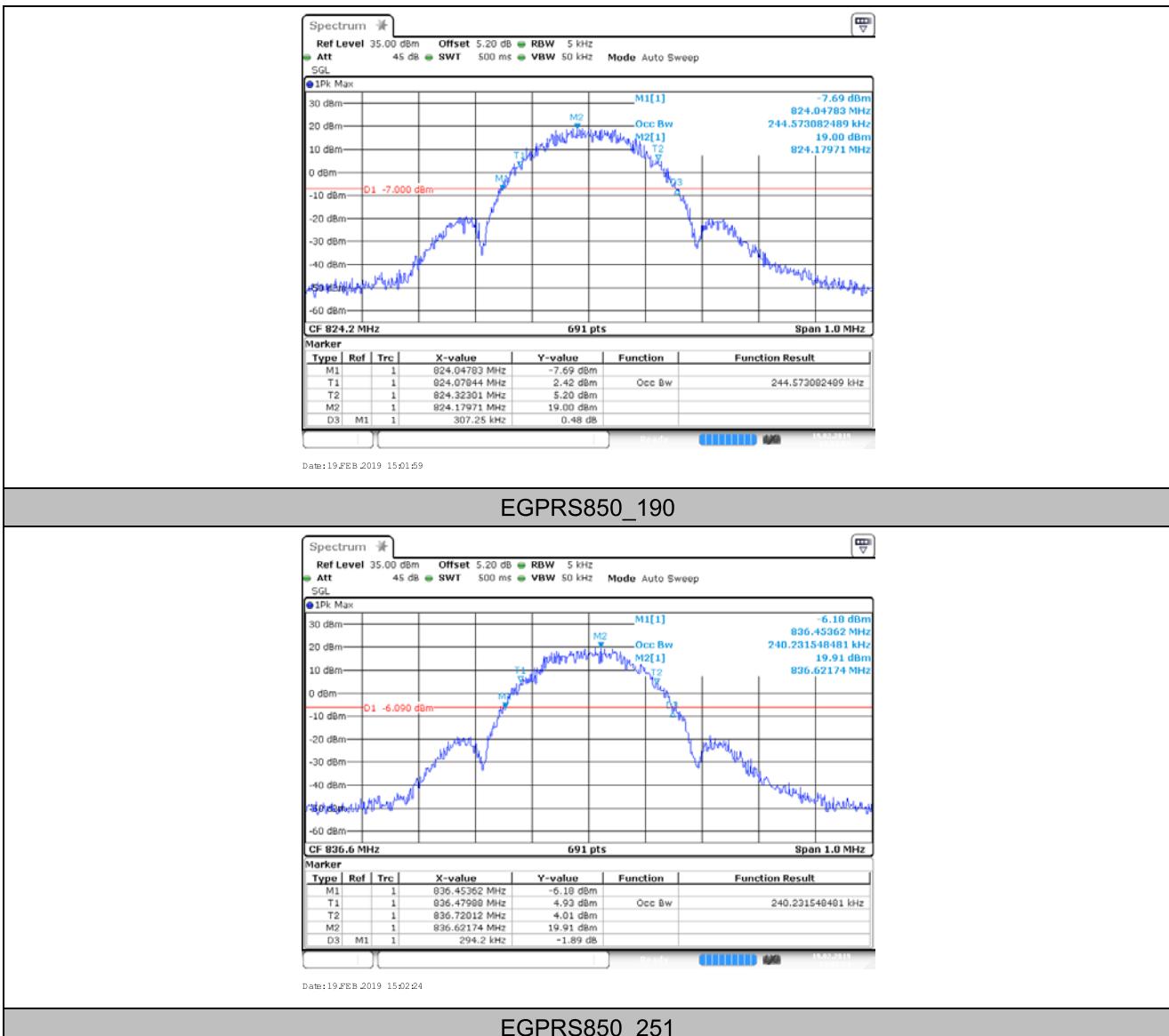
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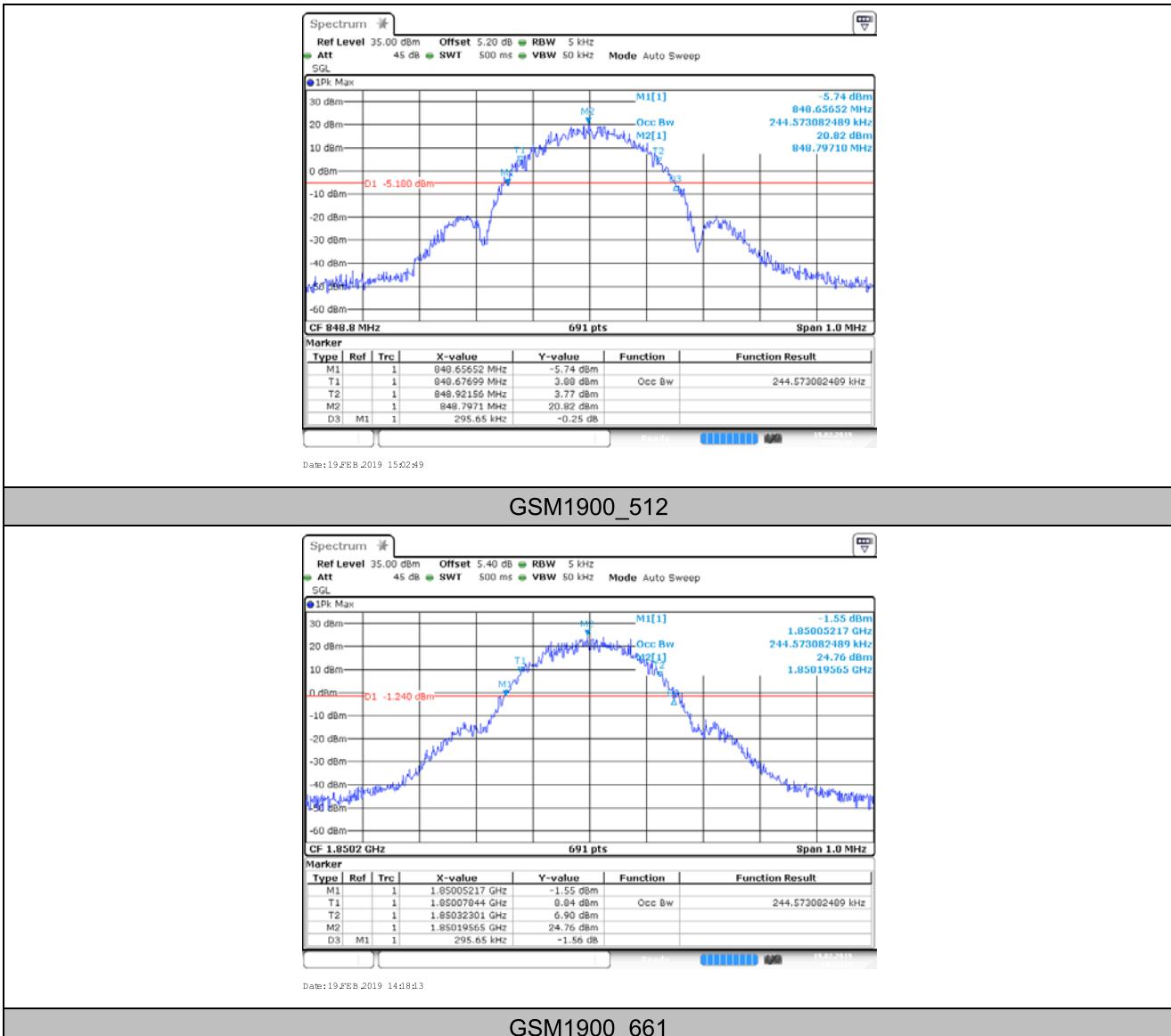
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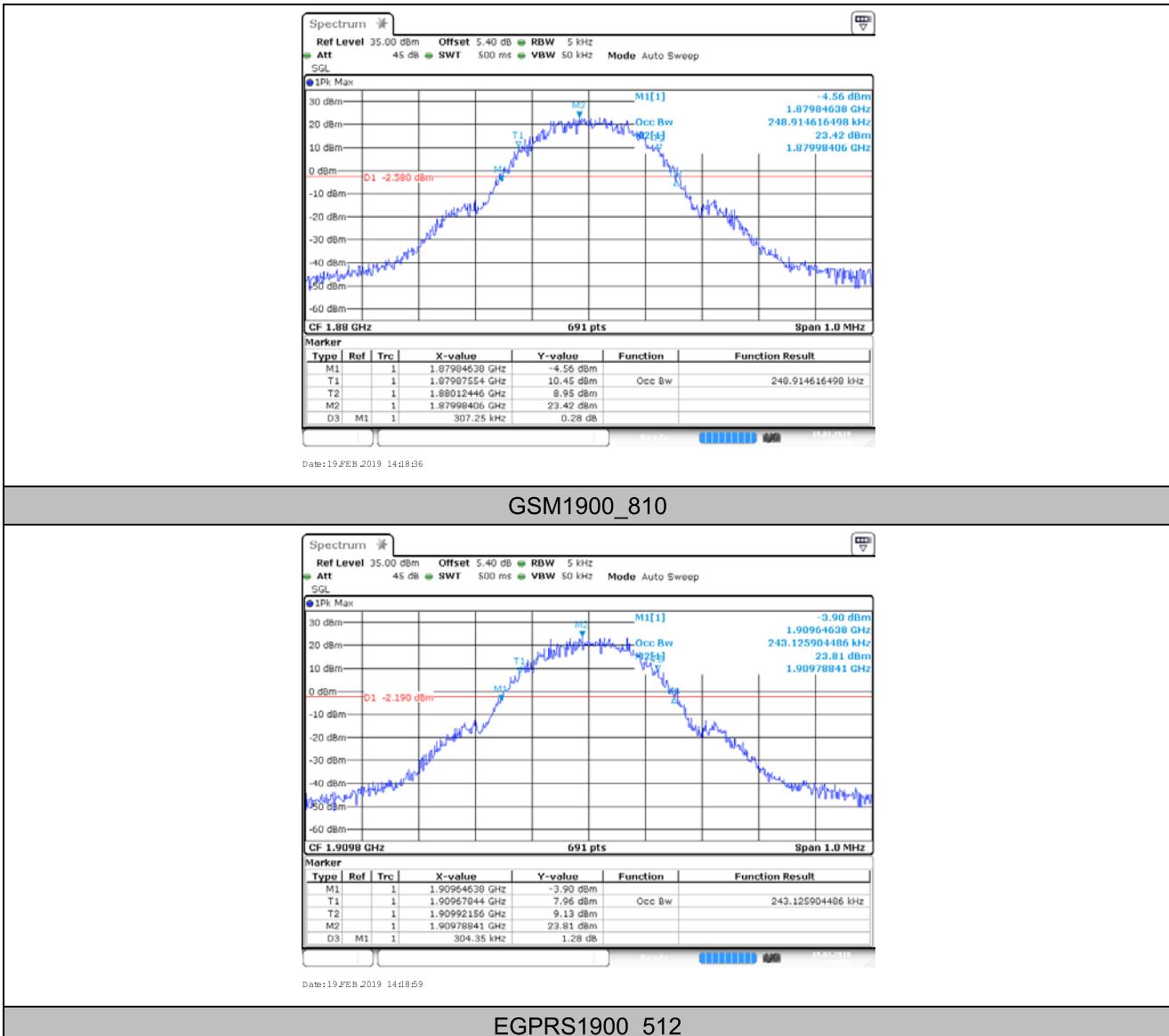
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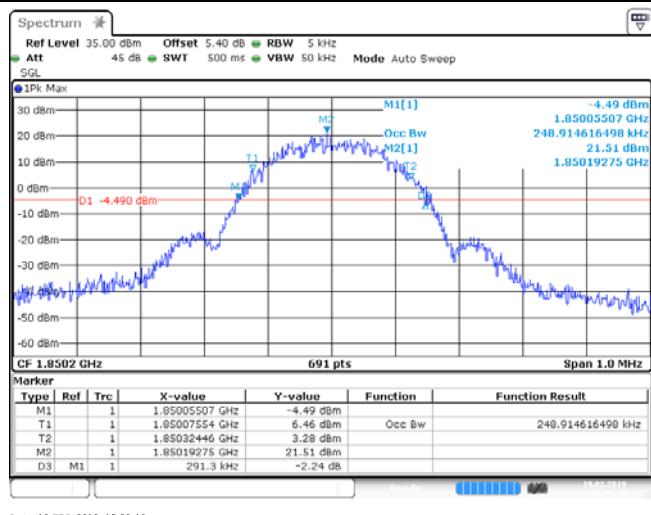
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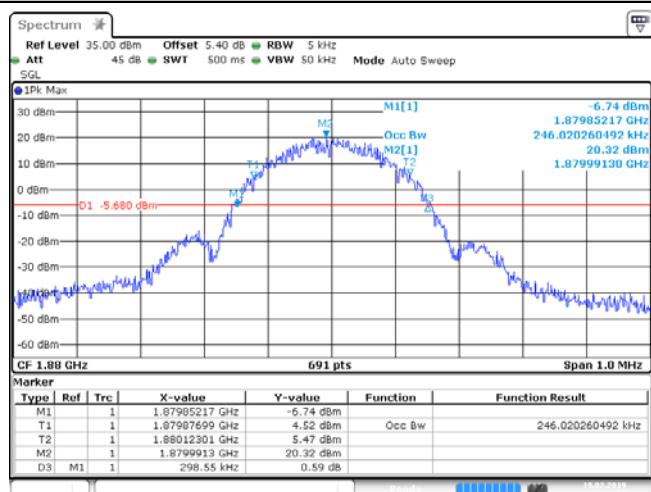


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EGPRS1900 661



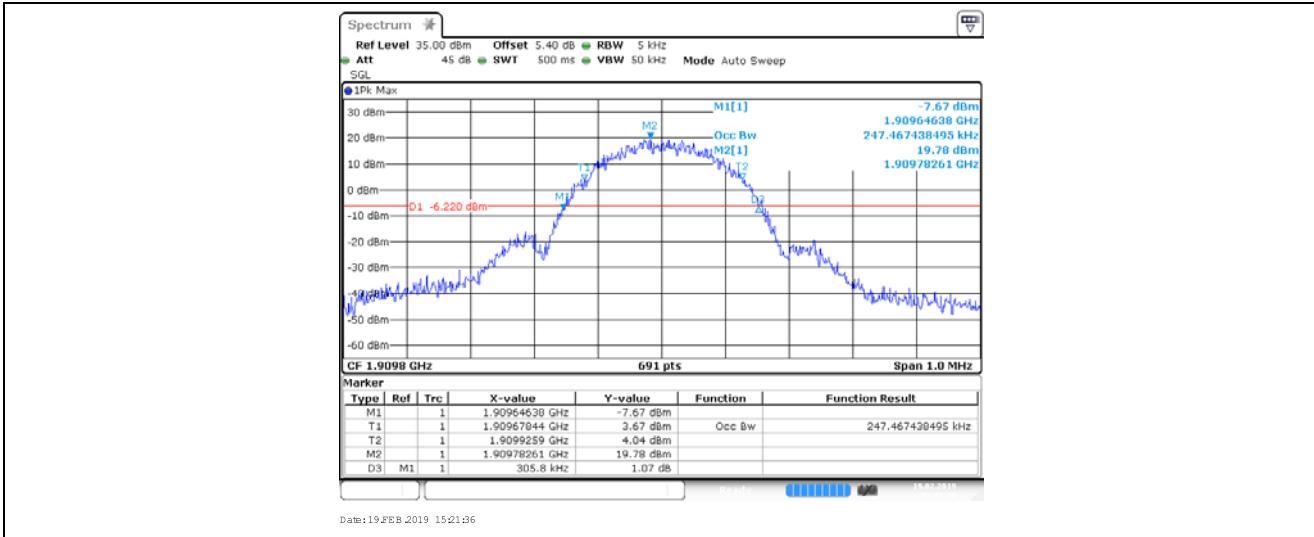
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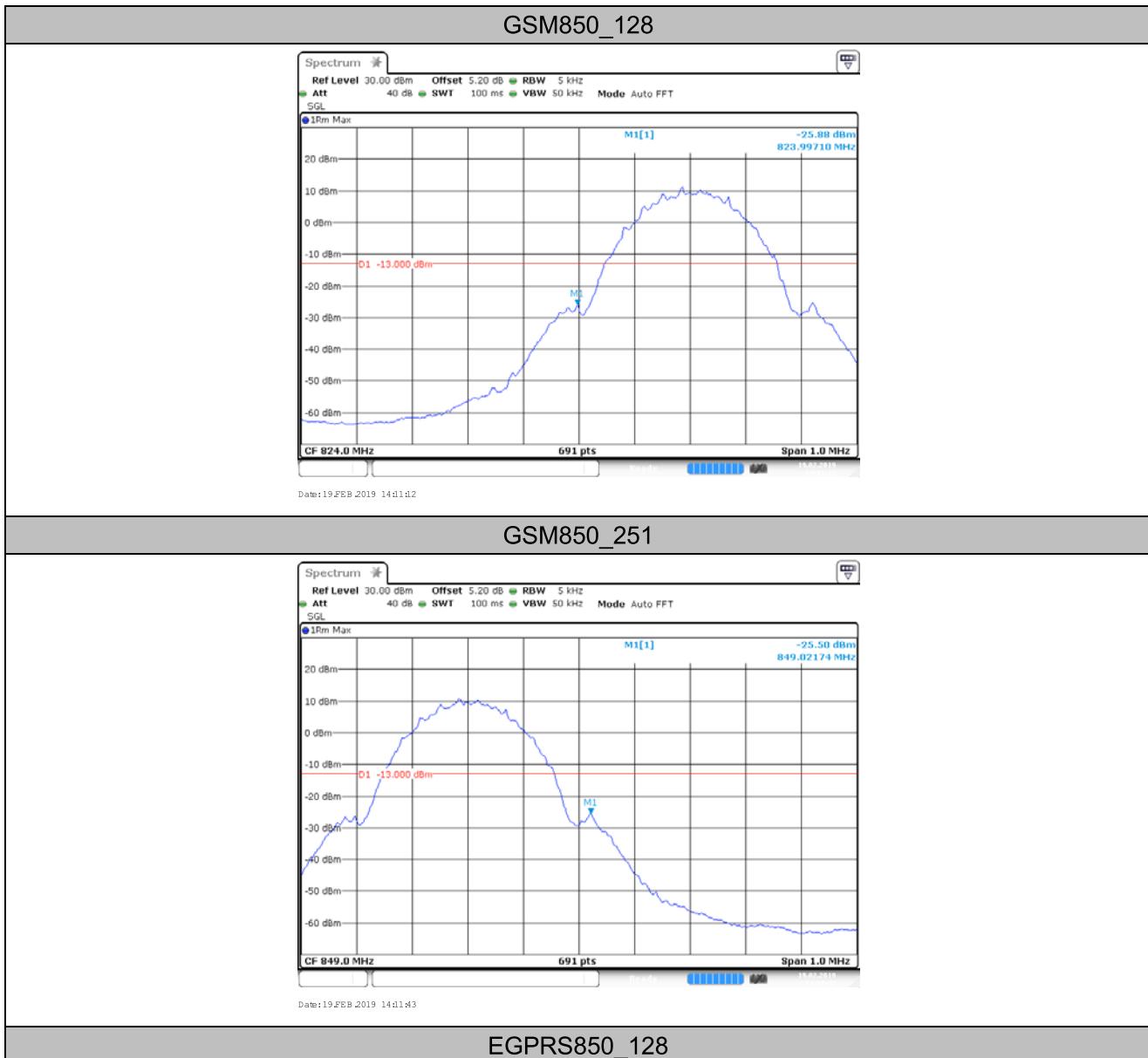
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5. Band Edge Compliance

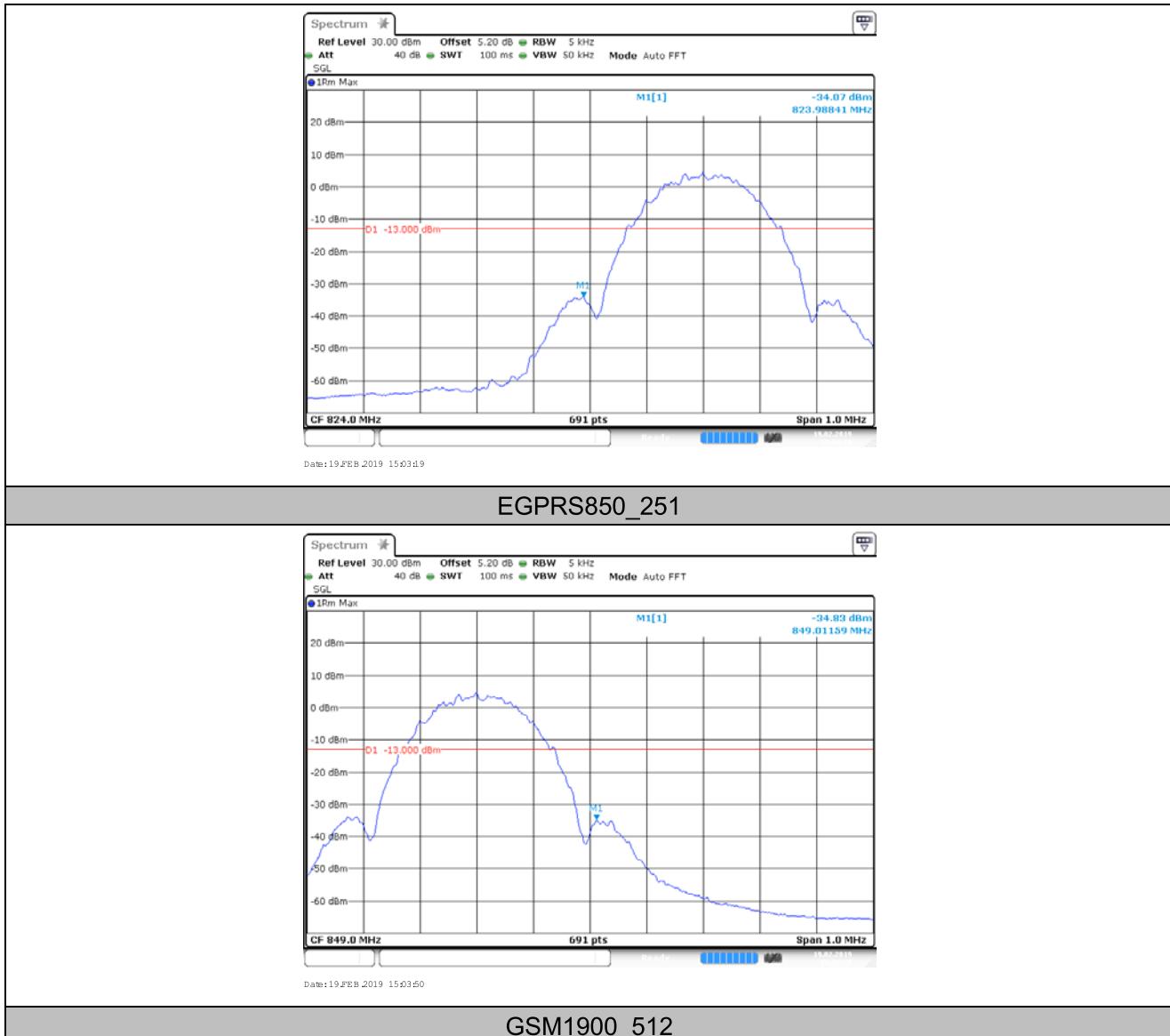
5.1. Test Plots



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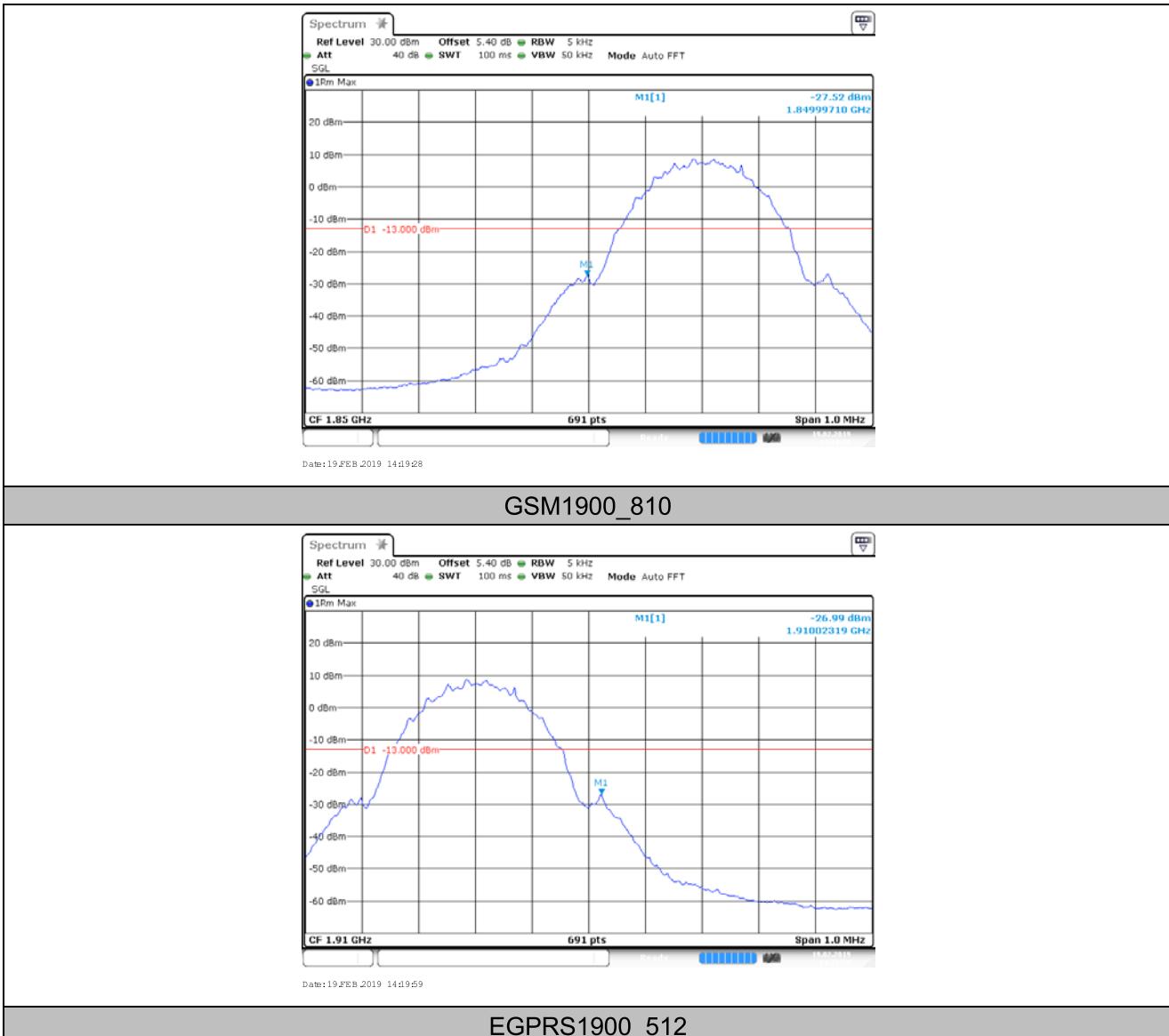
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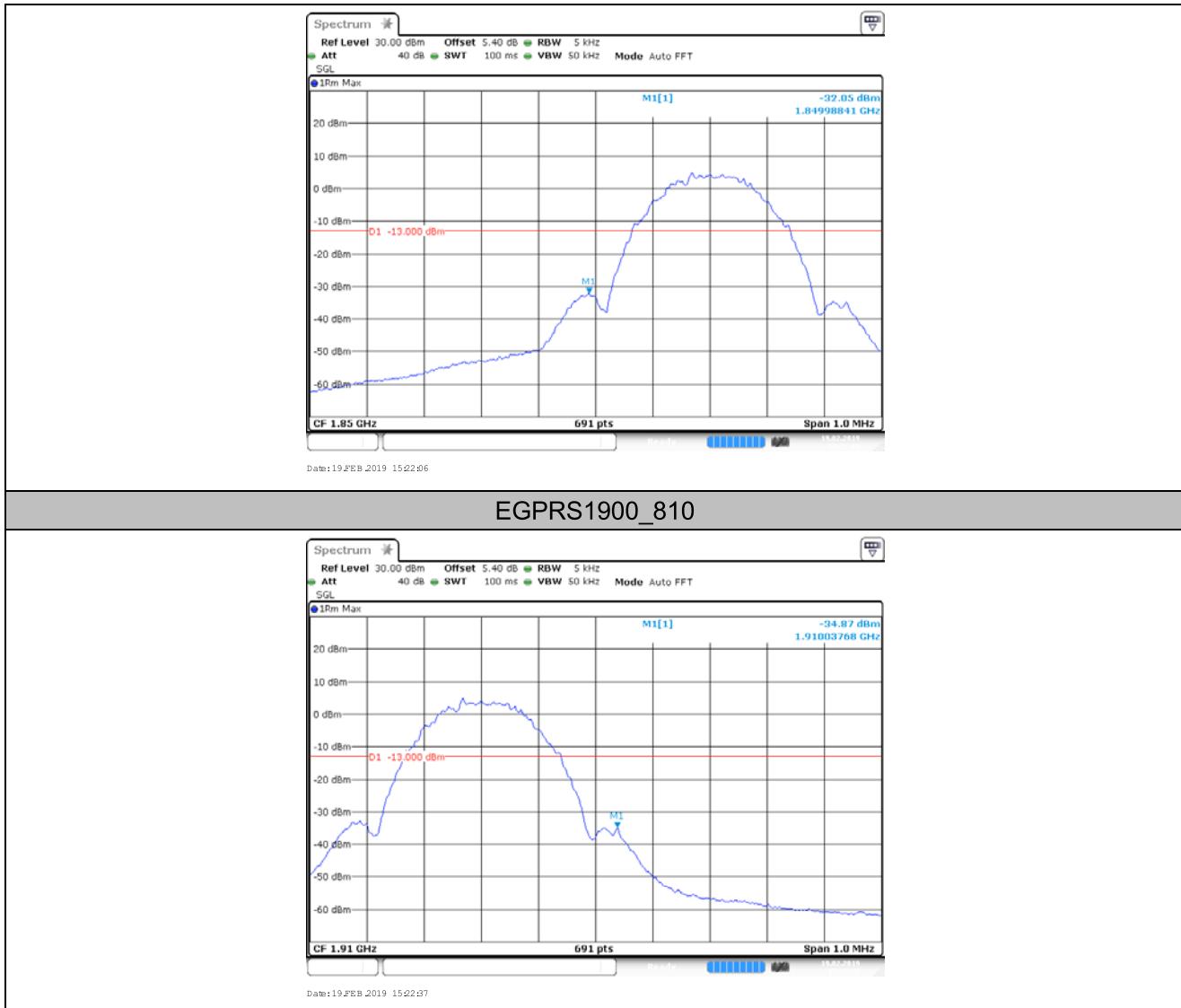
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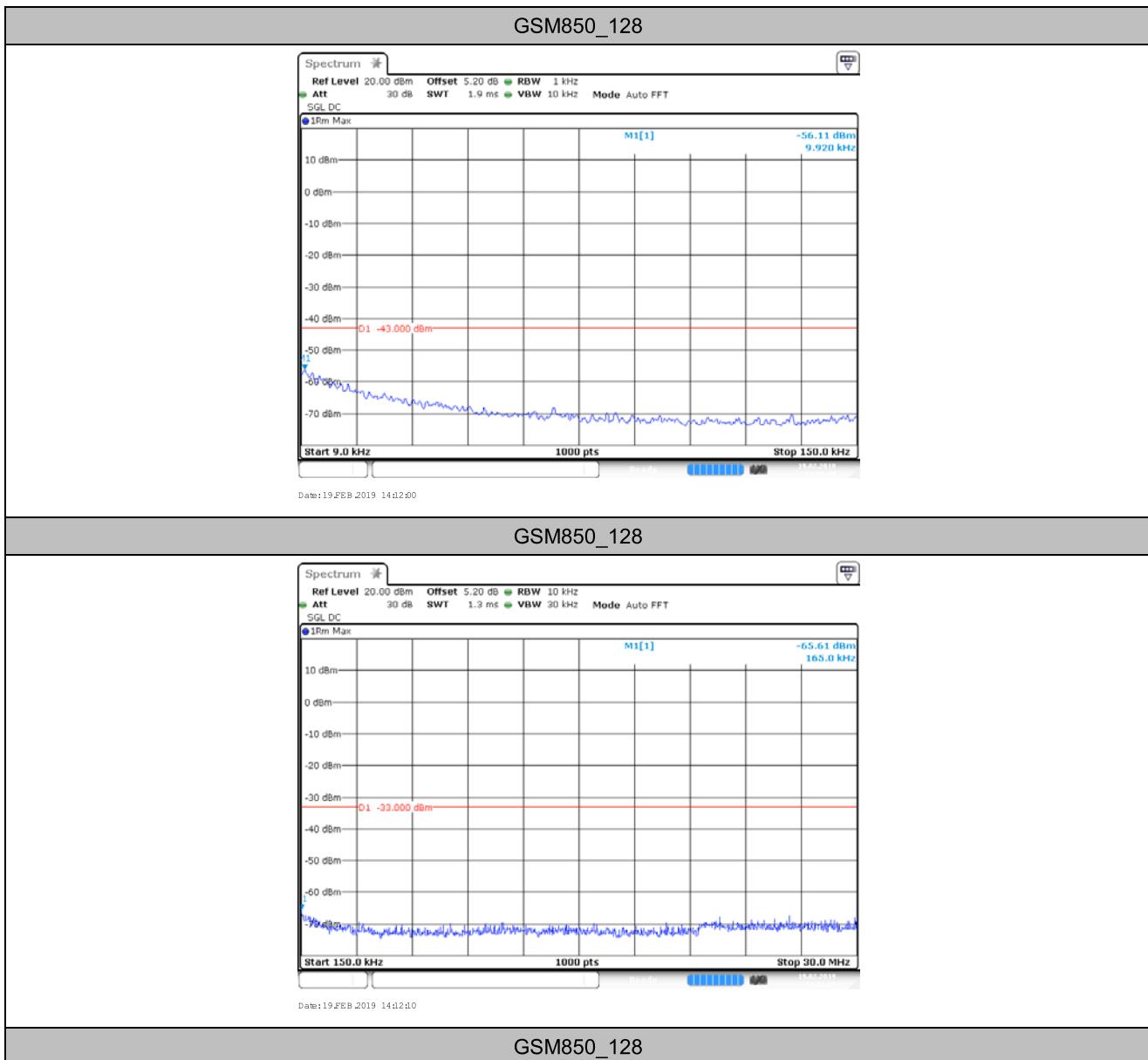
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6. Spurious Emission at Antenna Terminal

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 $< \text{RBW}/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " 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

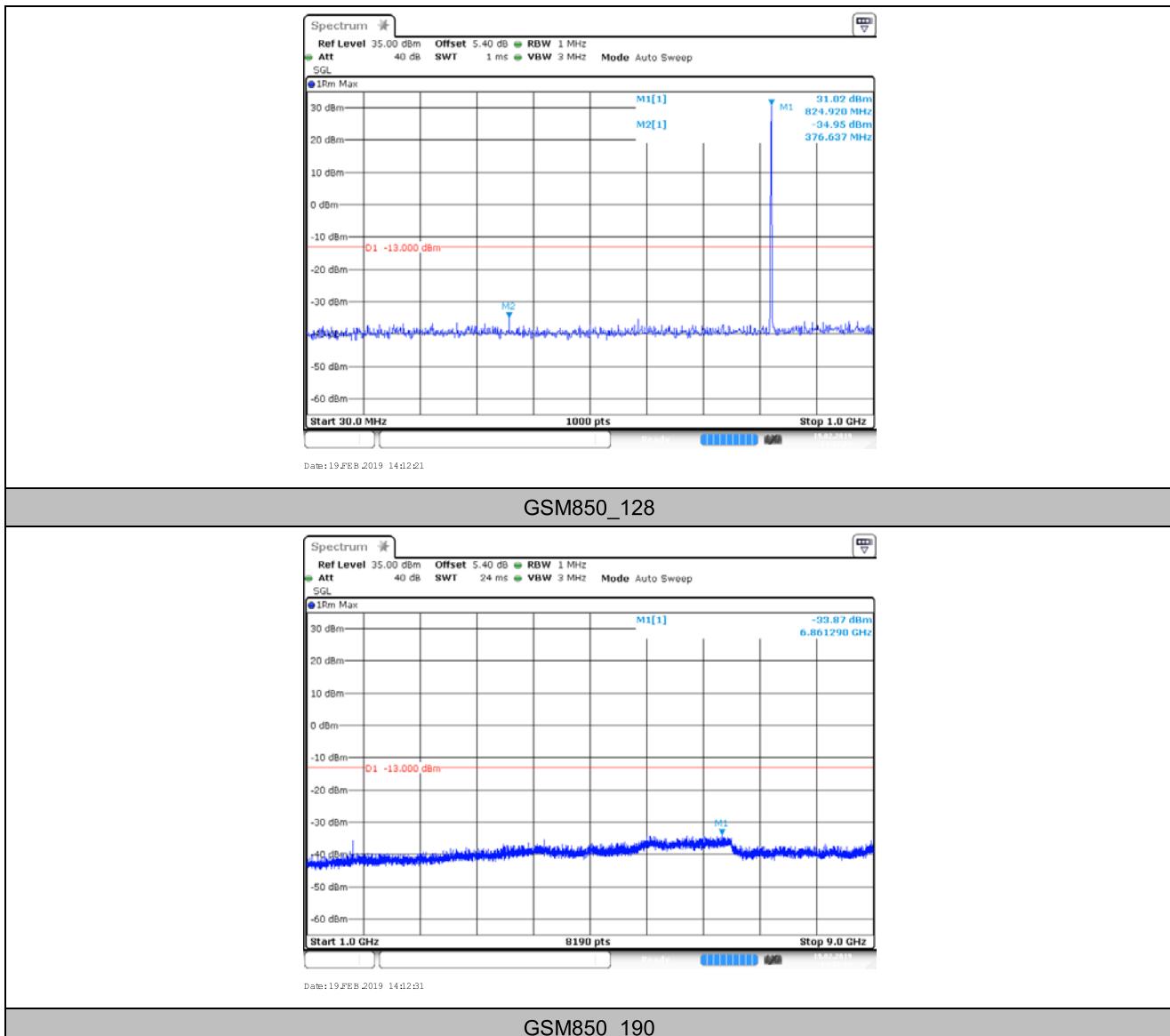


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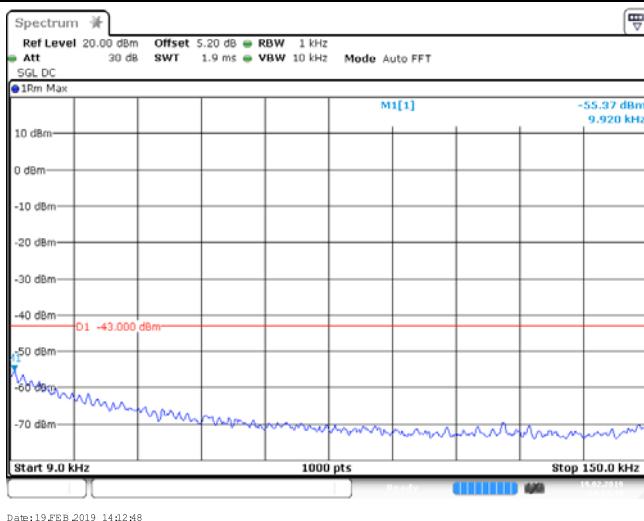


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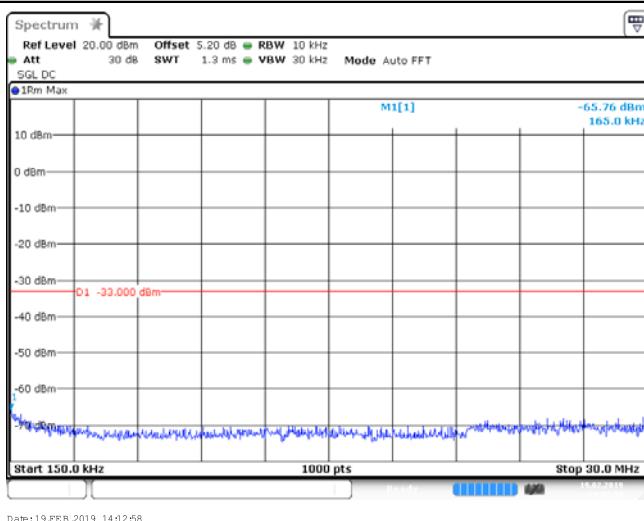
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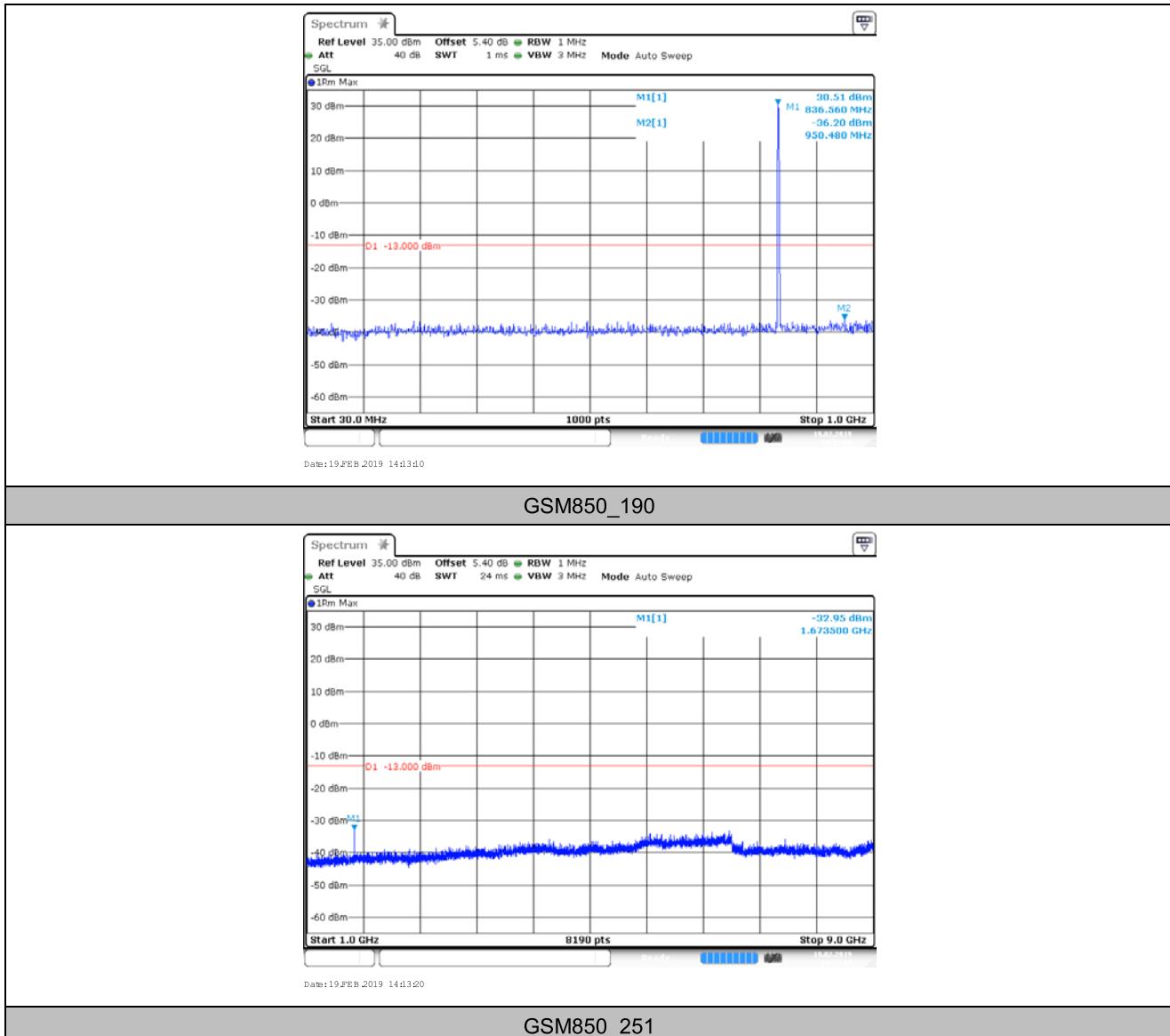
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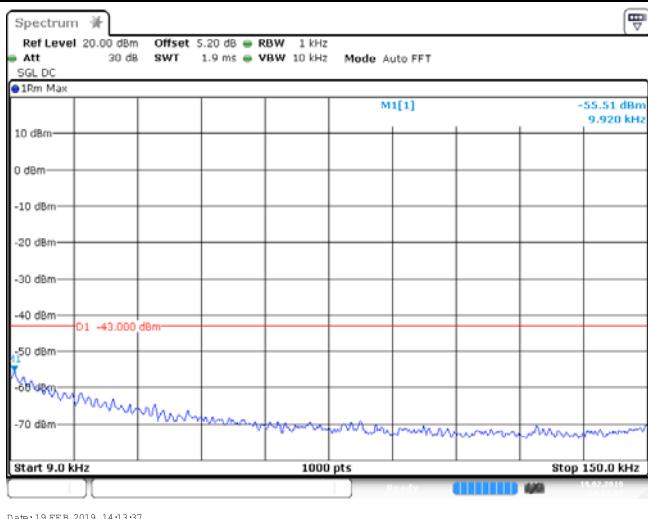
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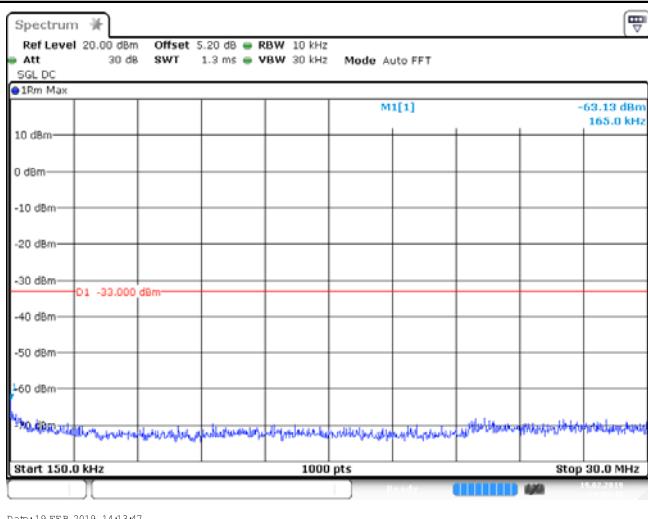


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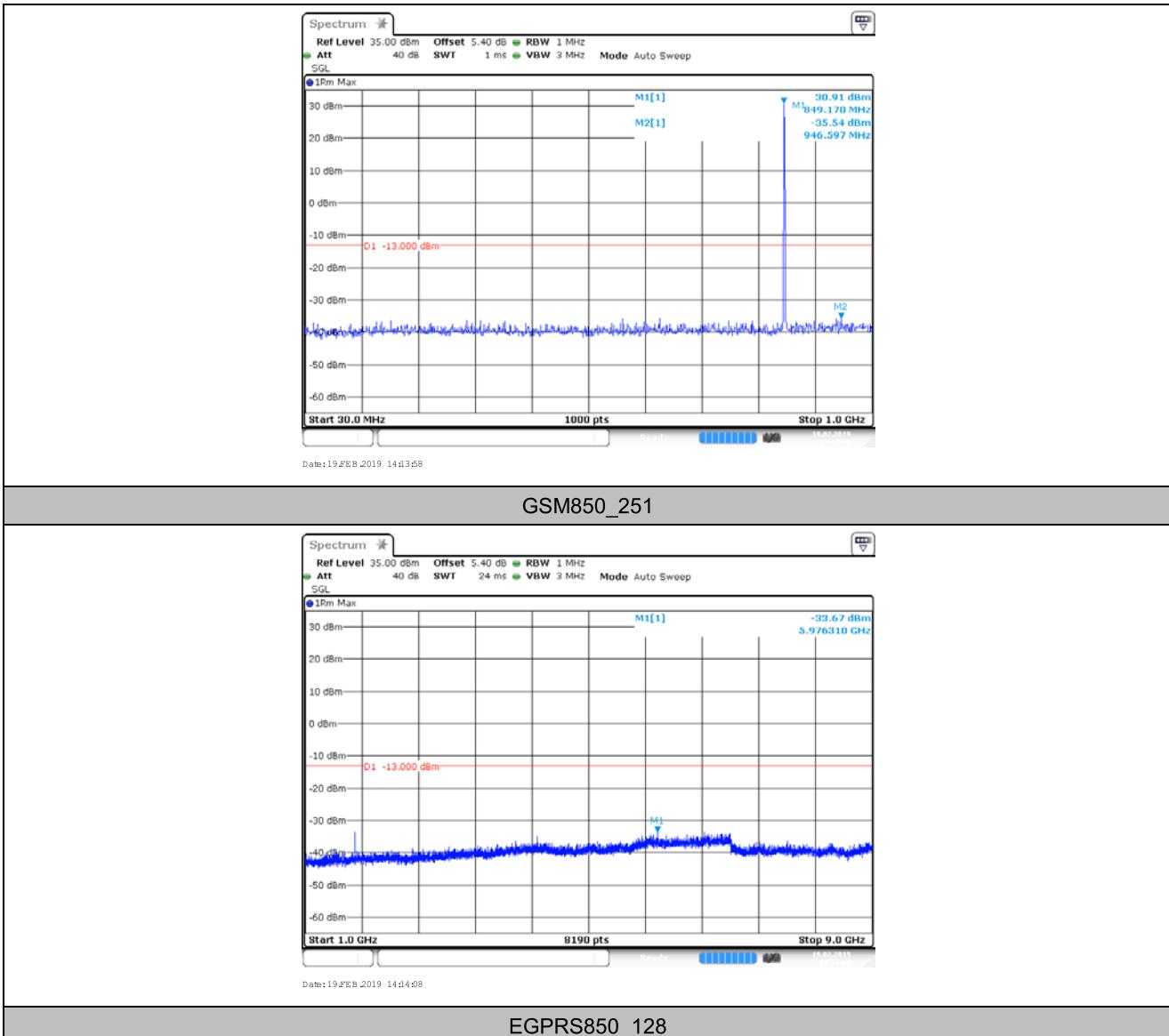
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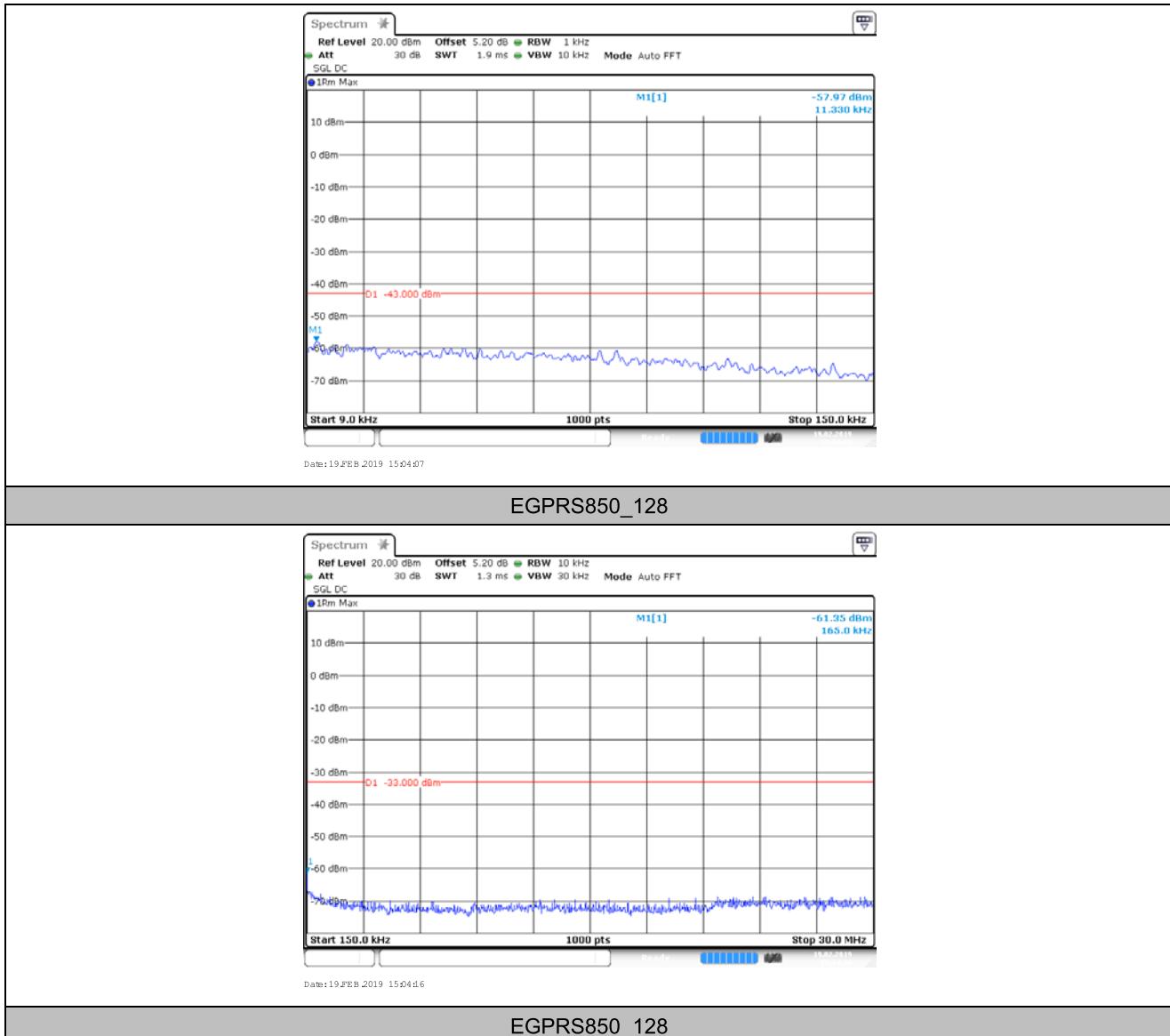
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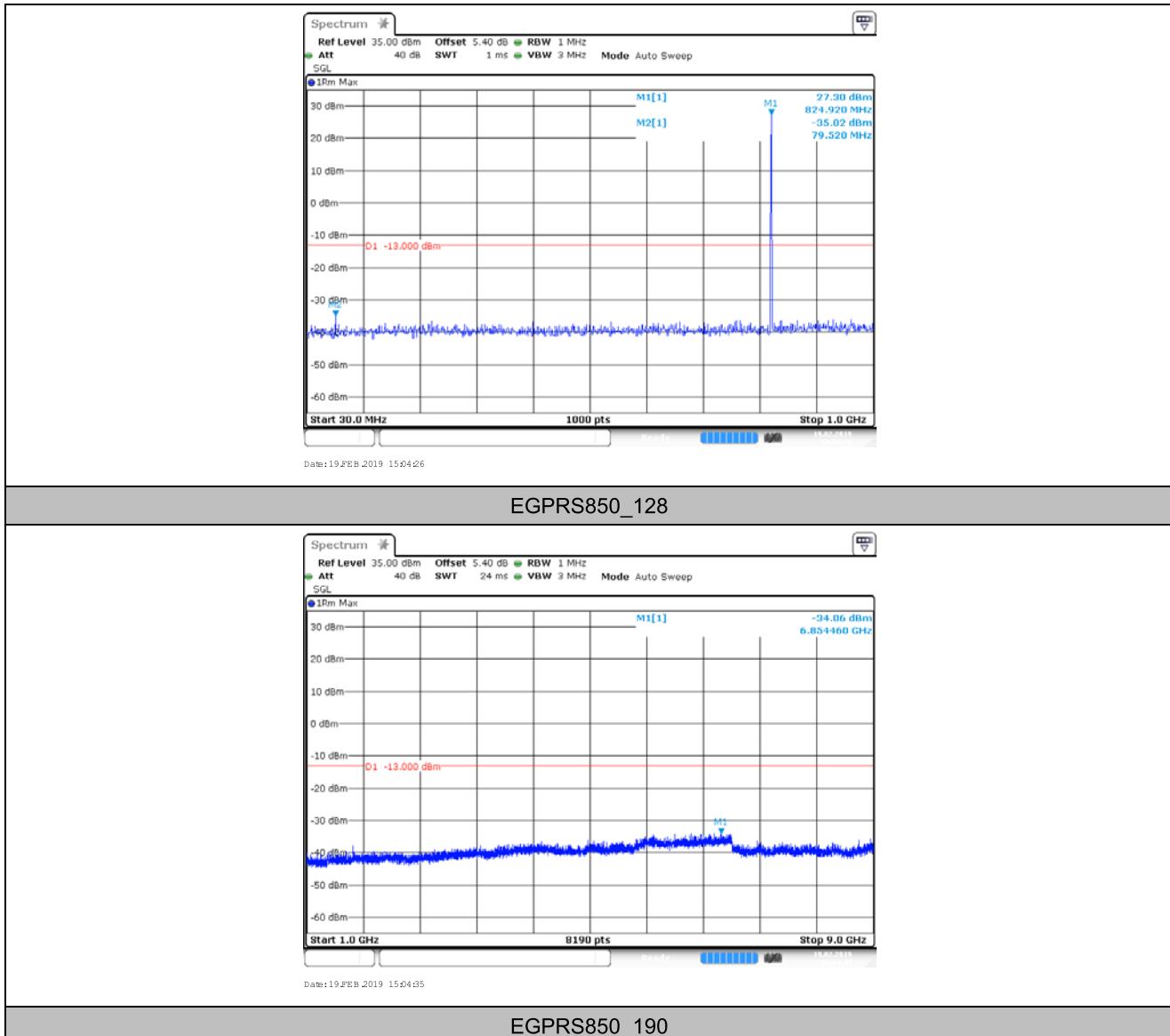
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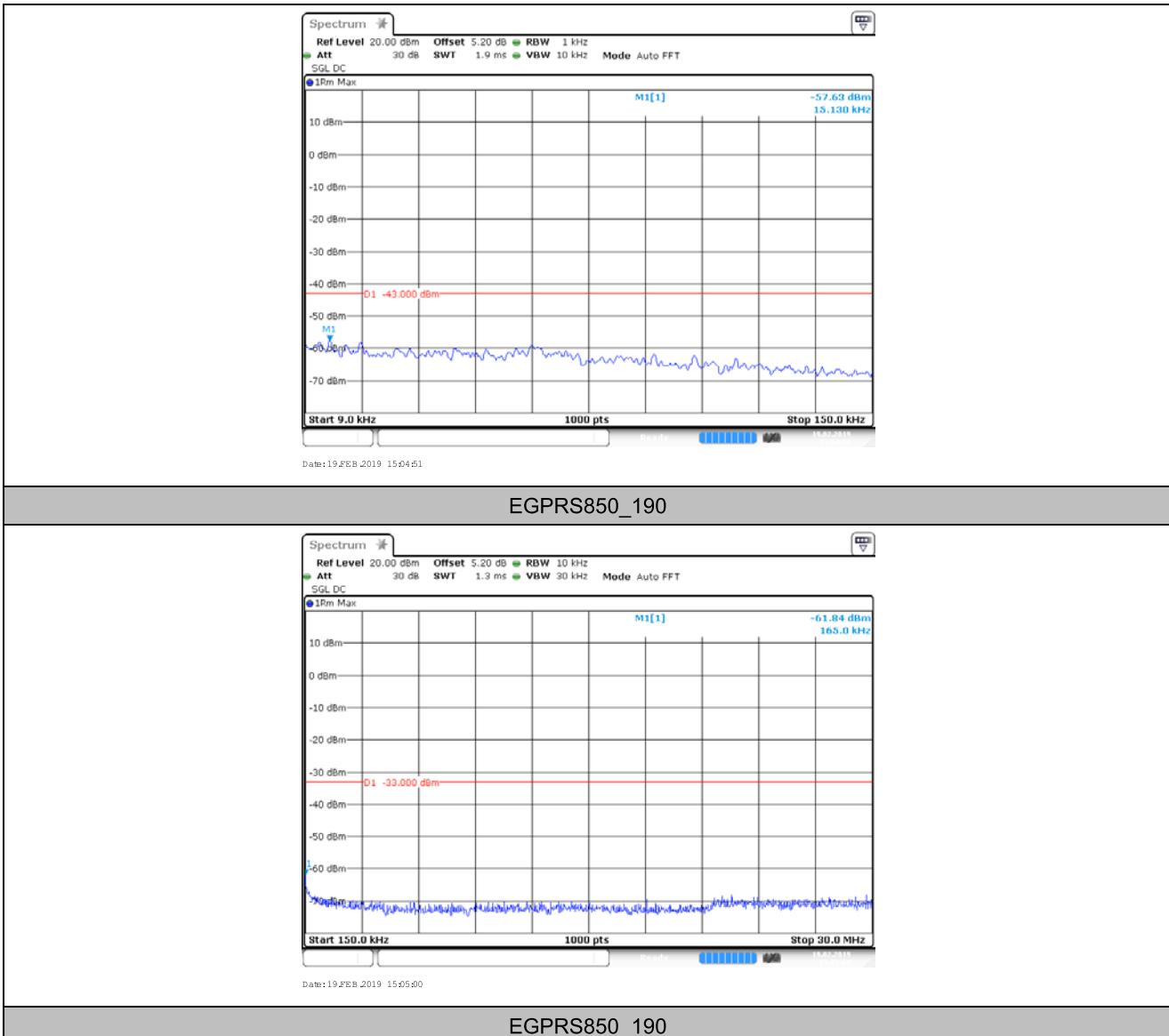
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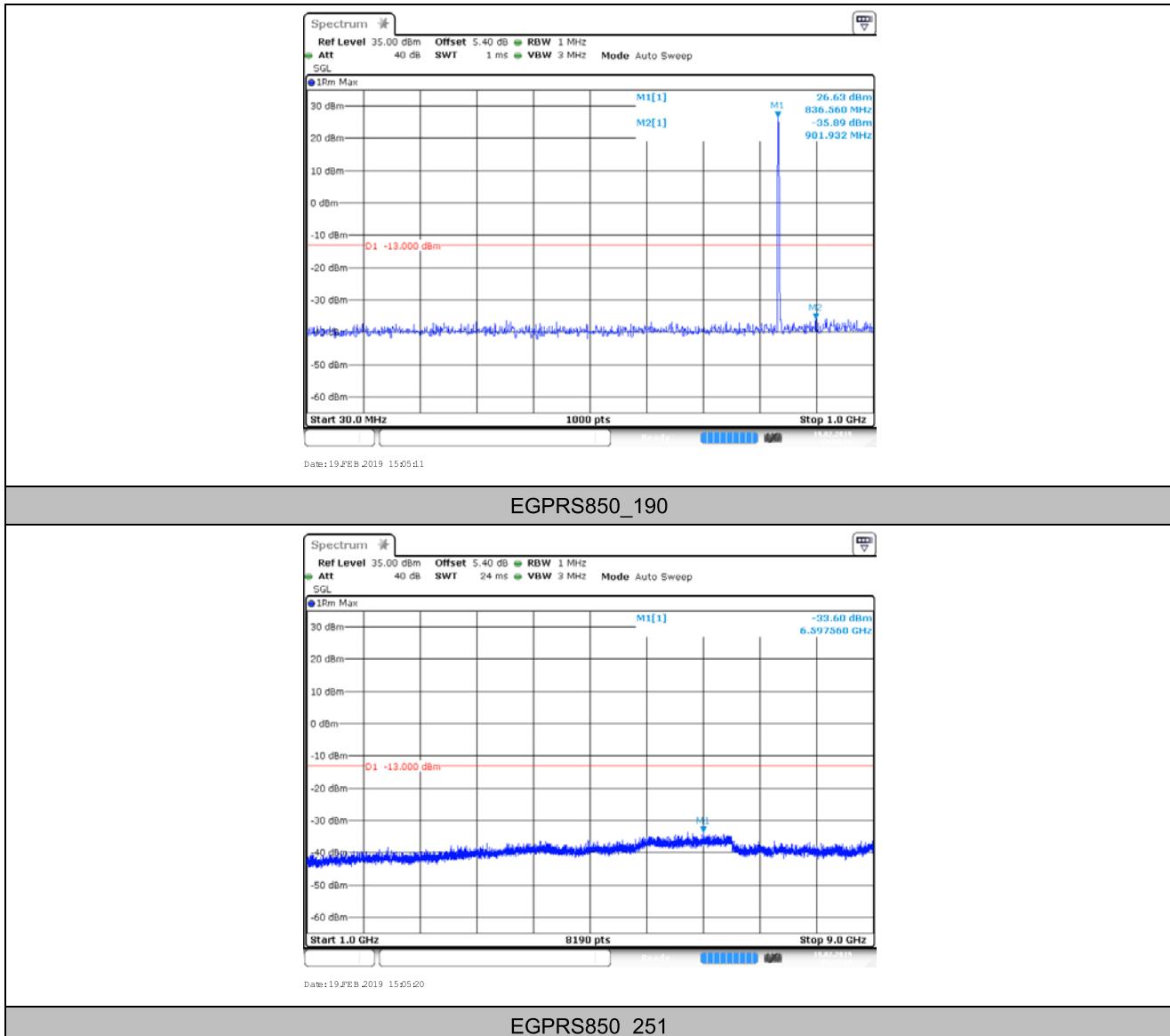
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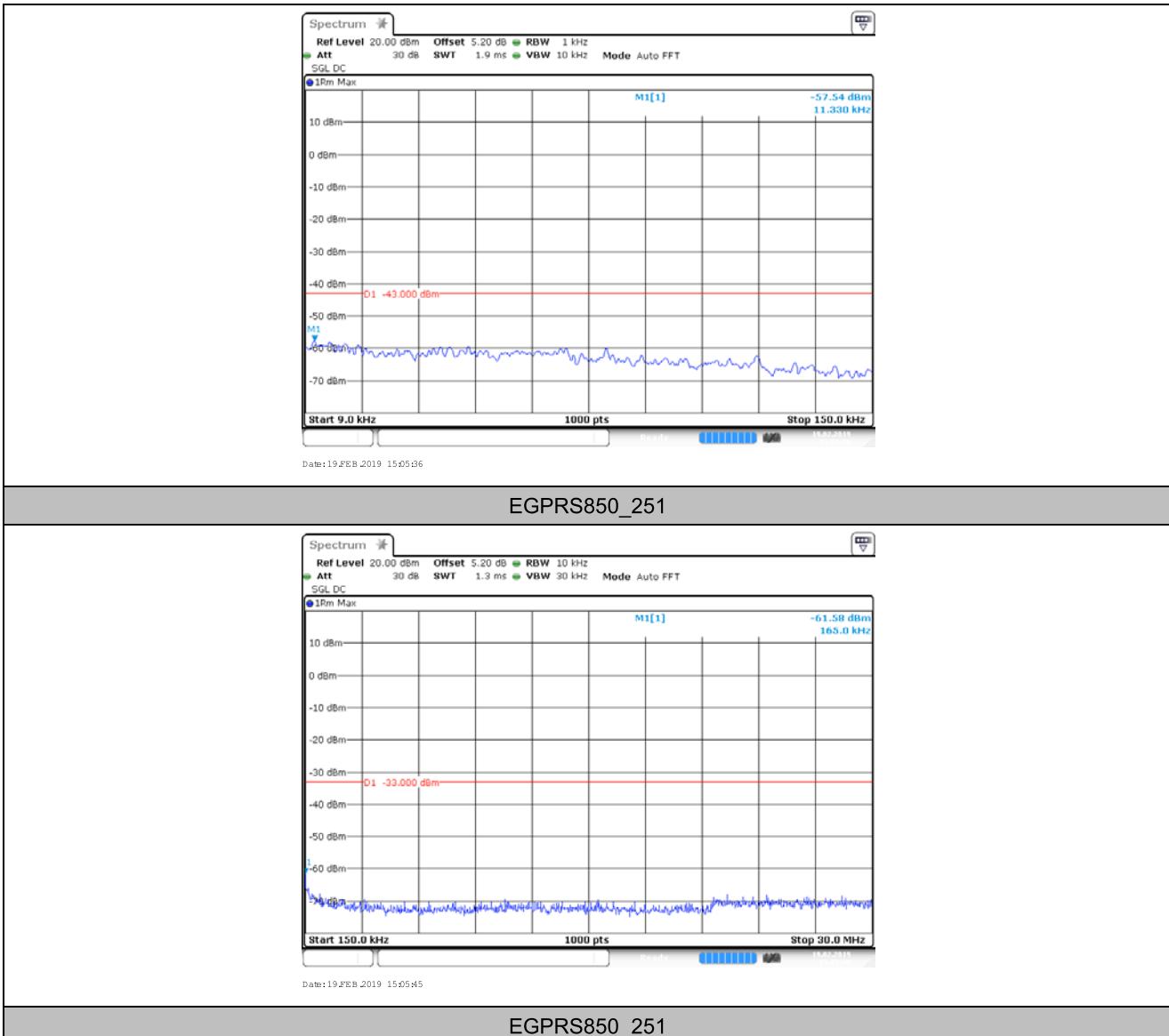
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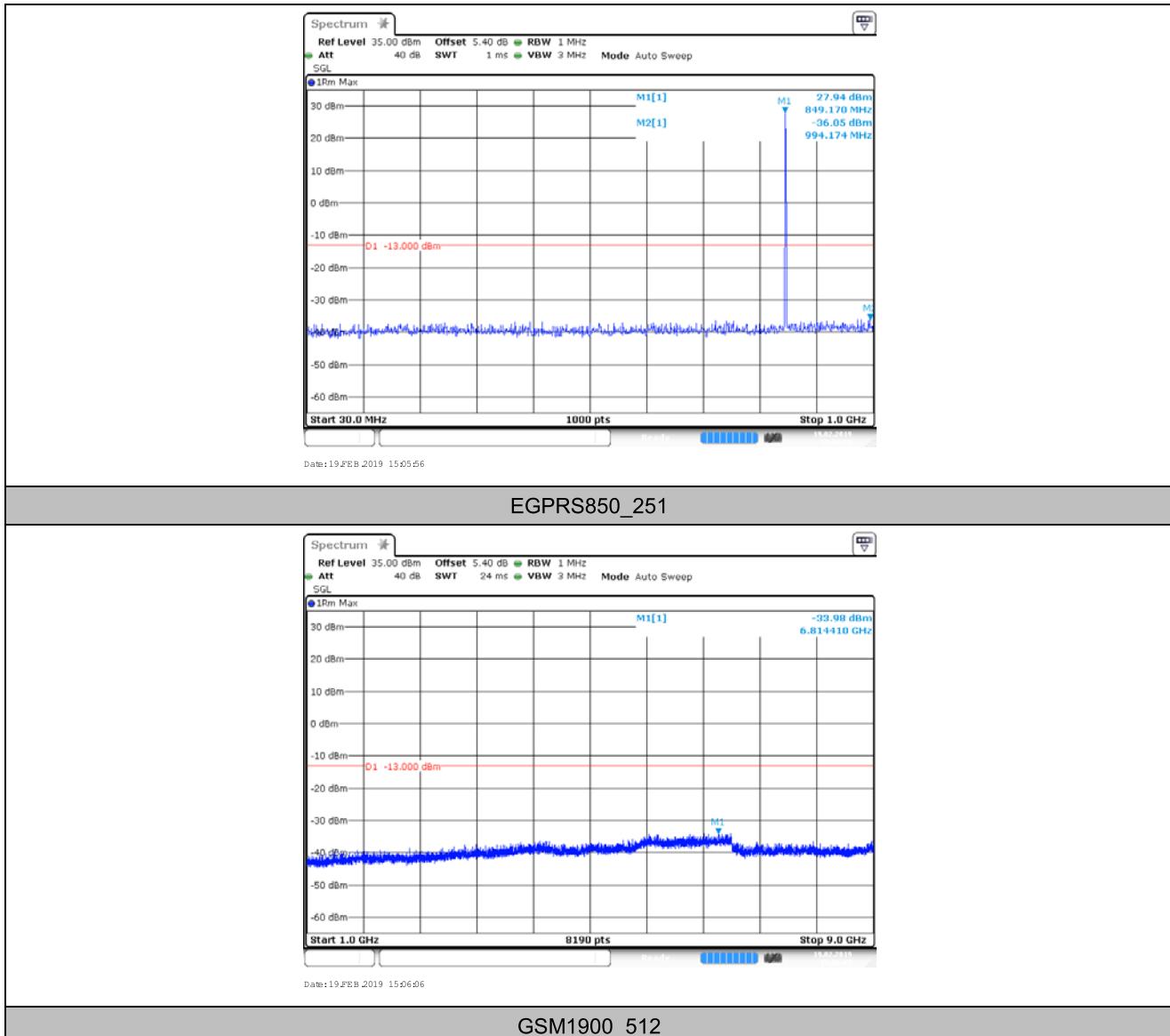
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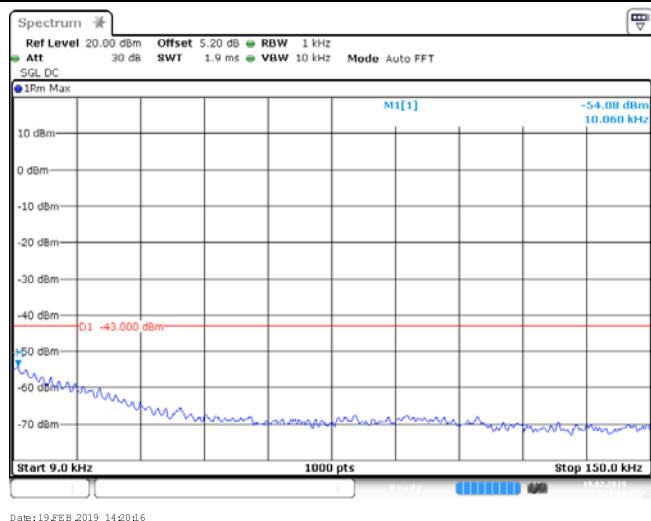
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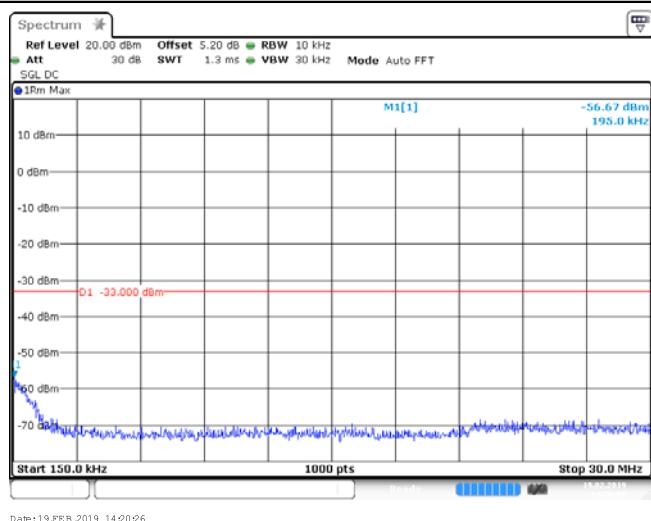


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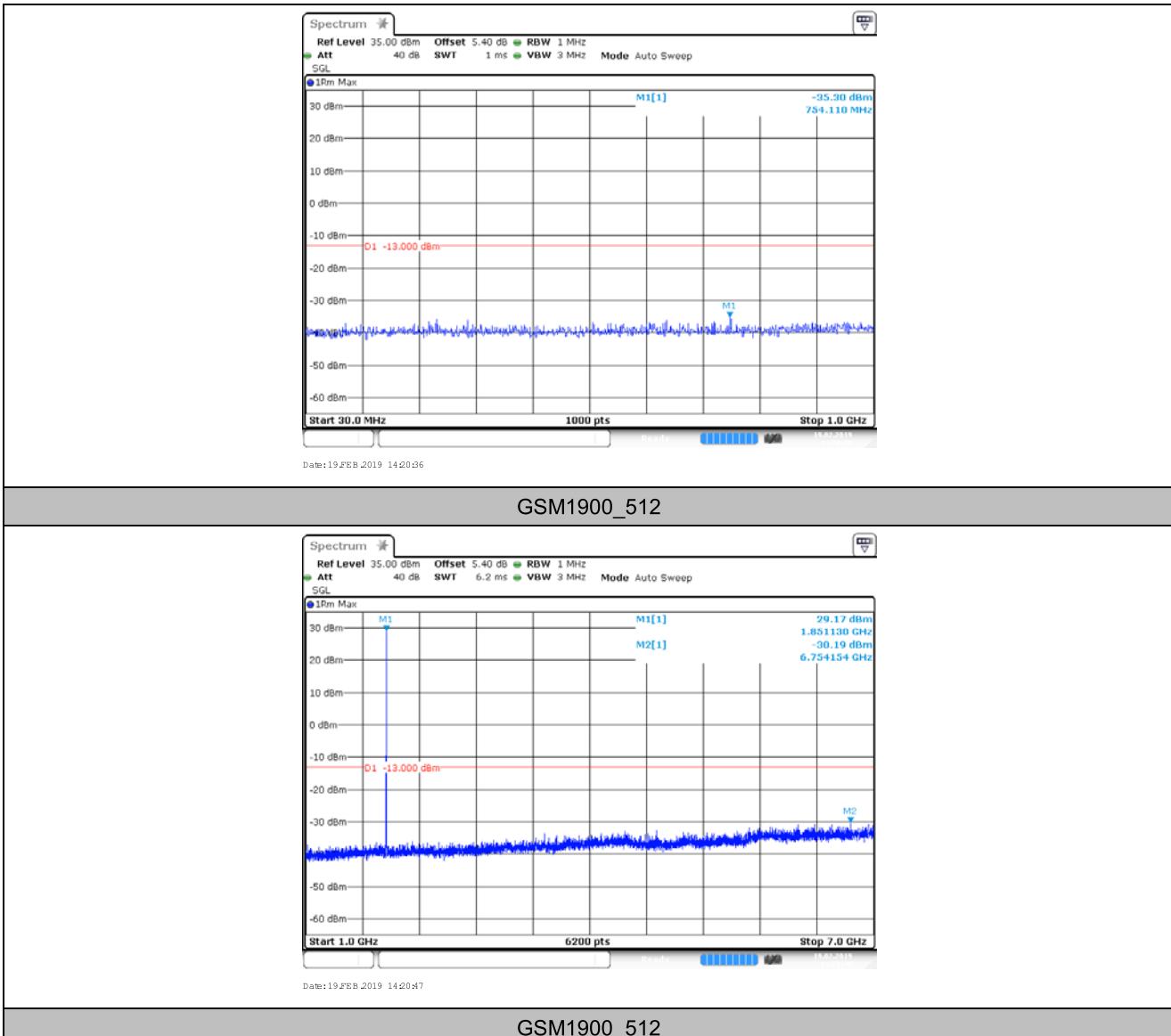
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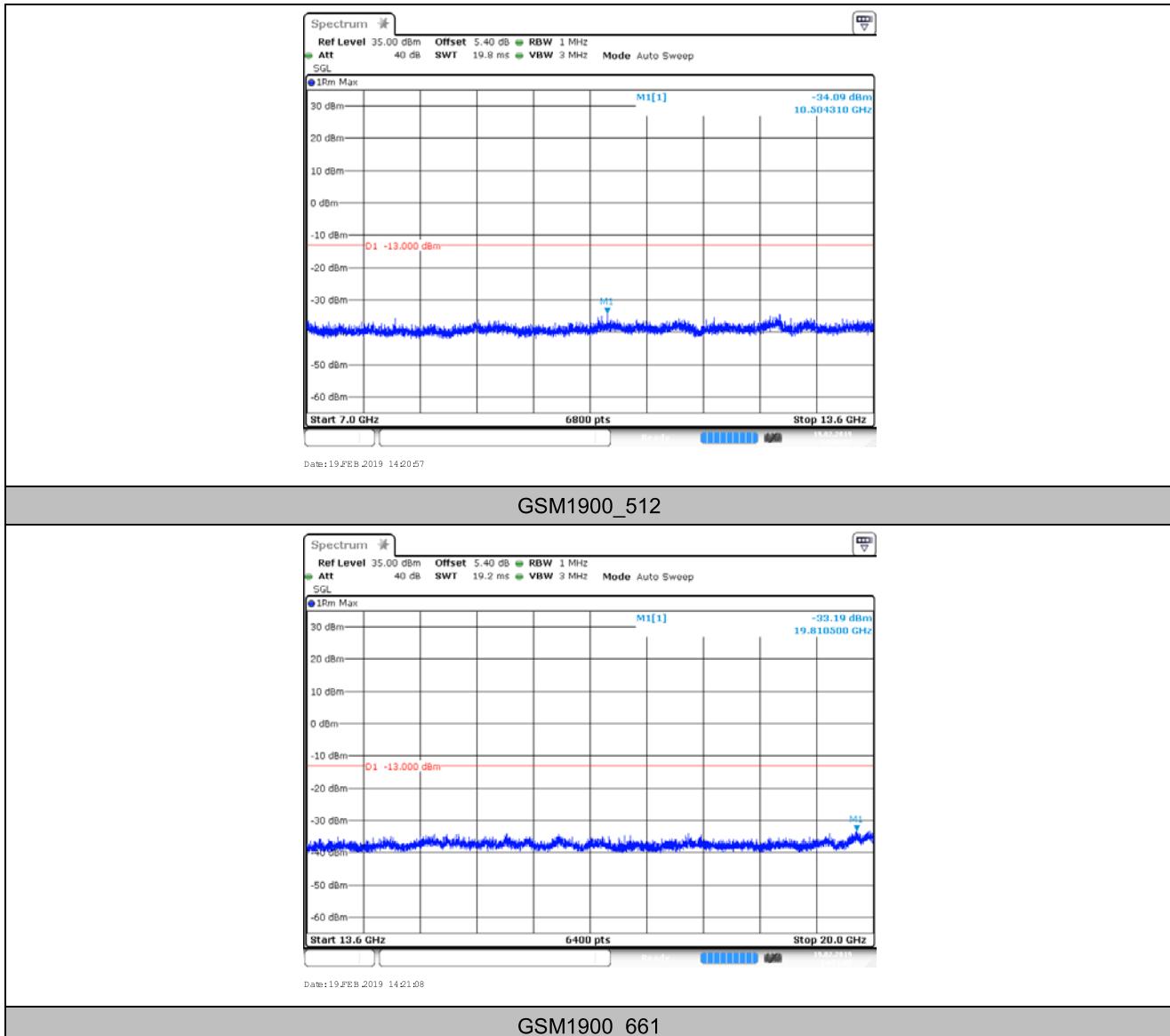
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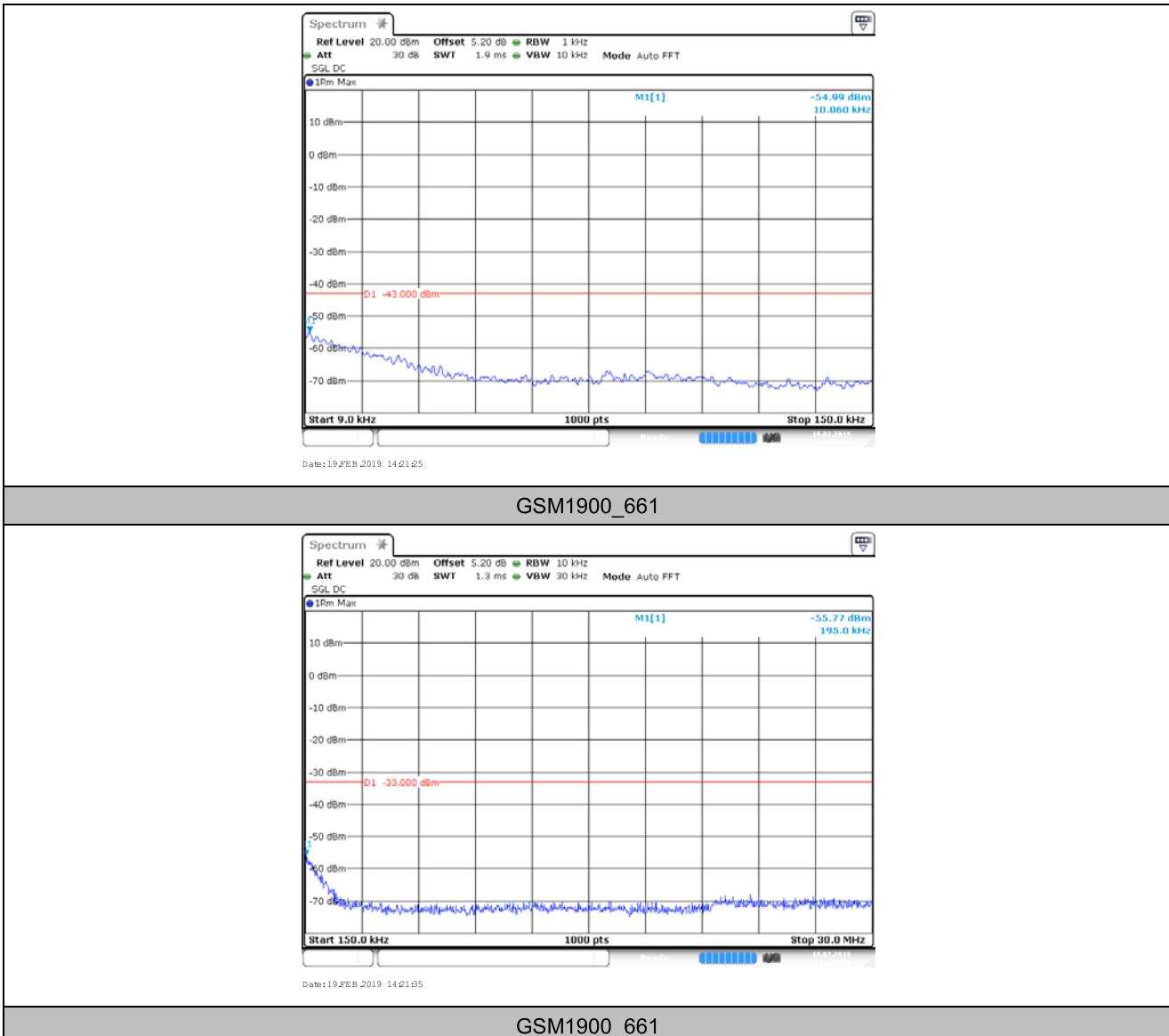
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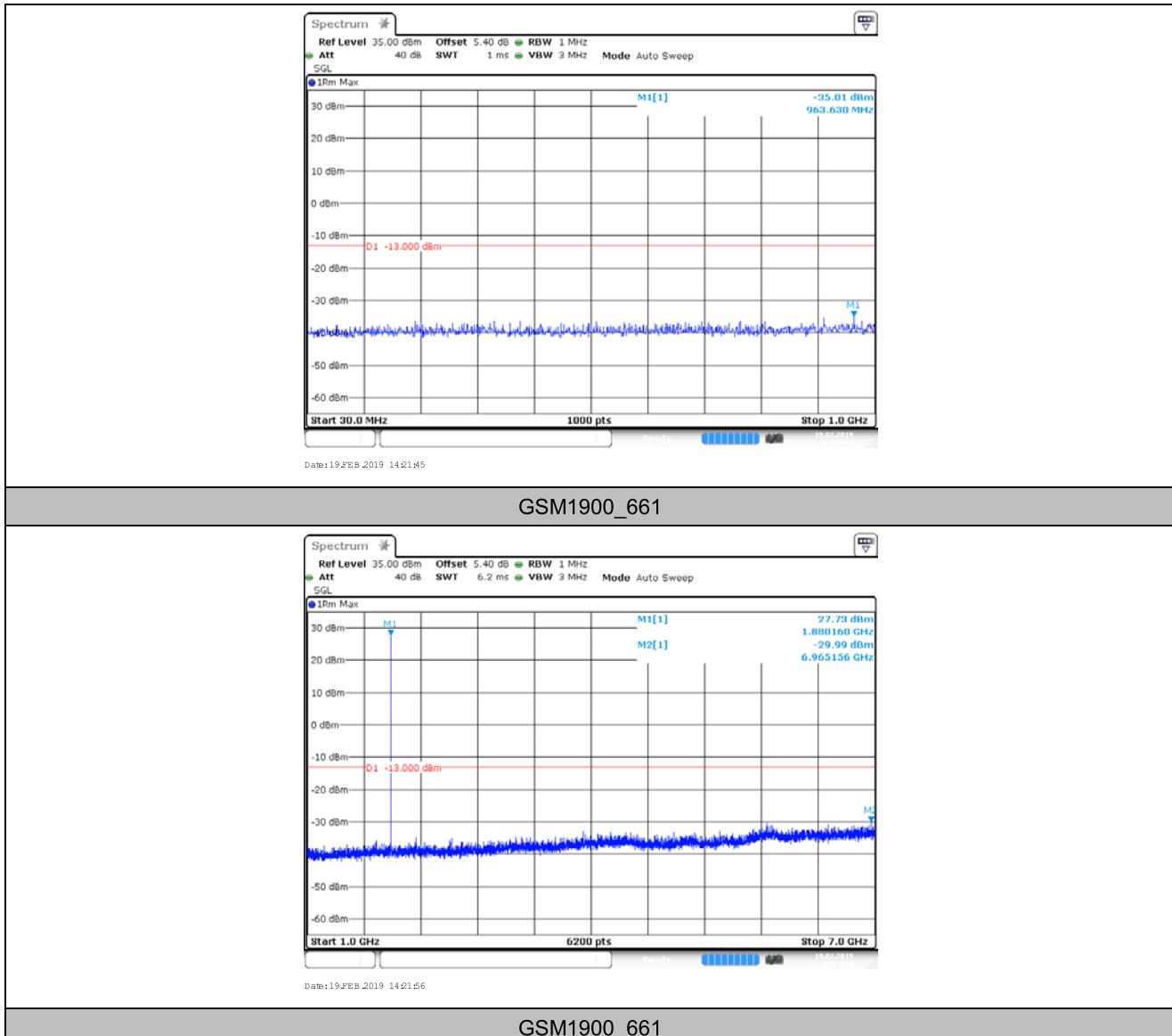
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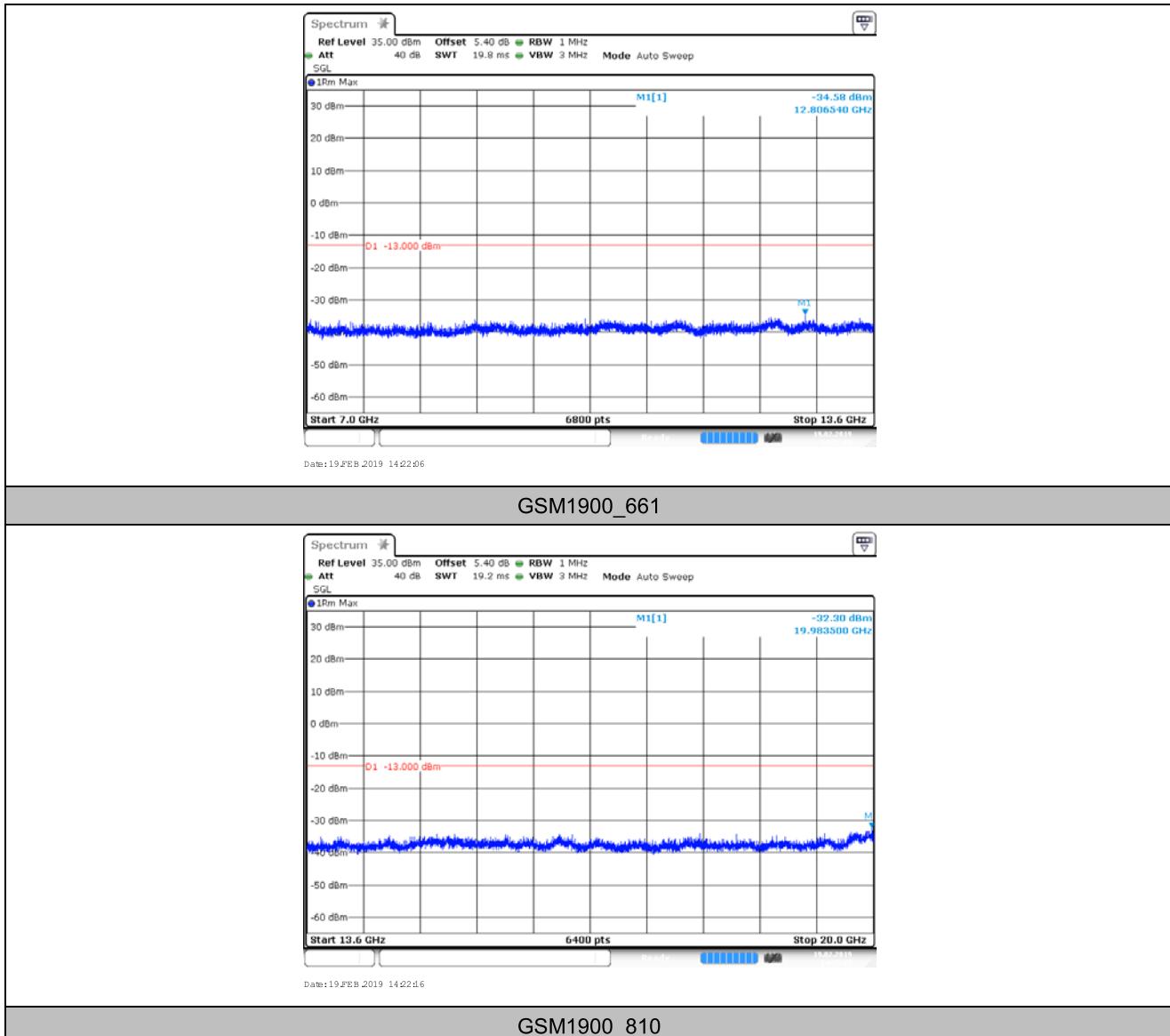
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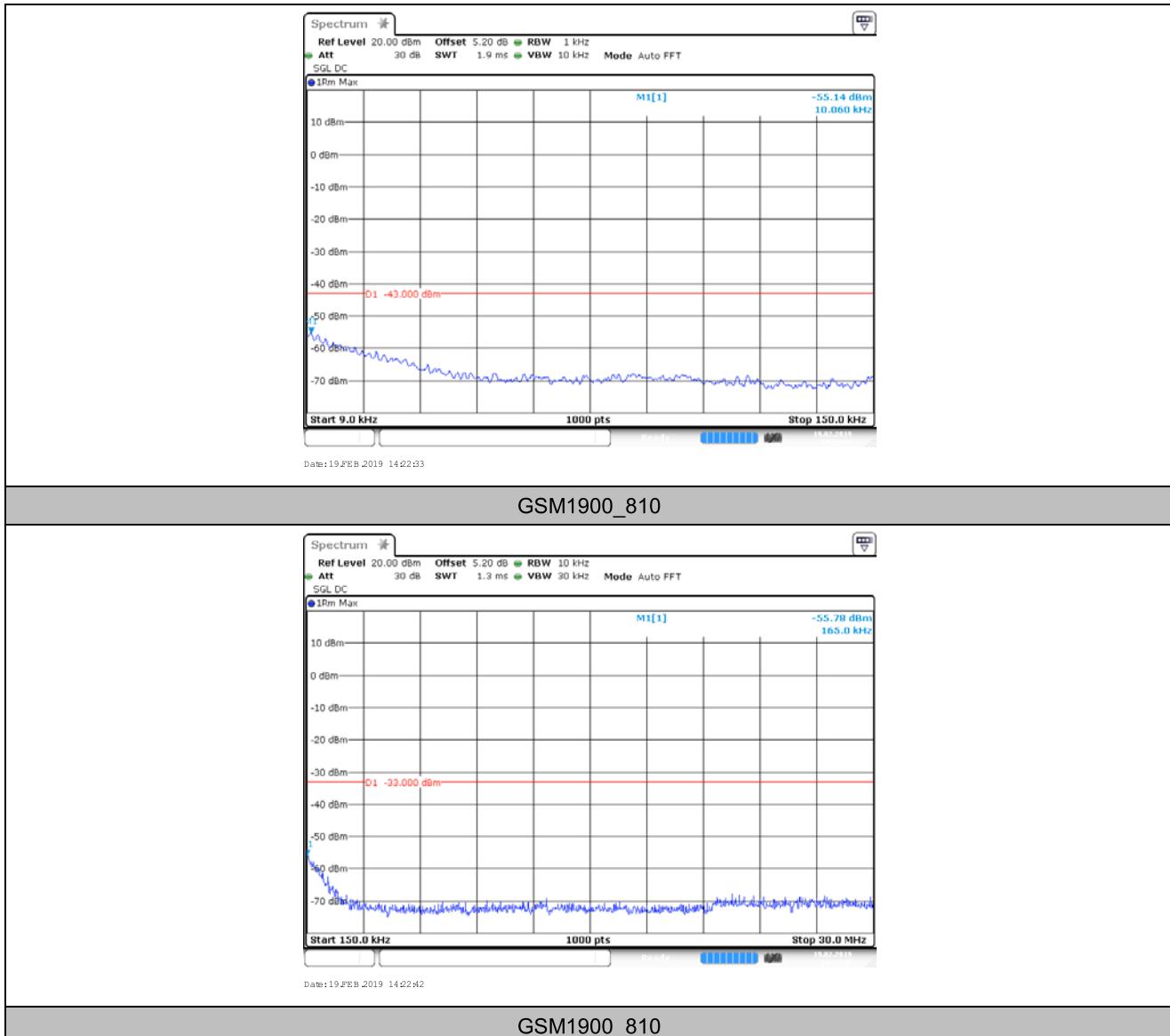
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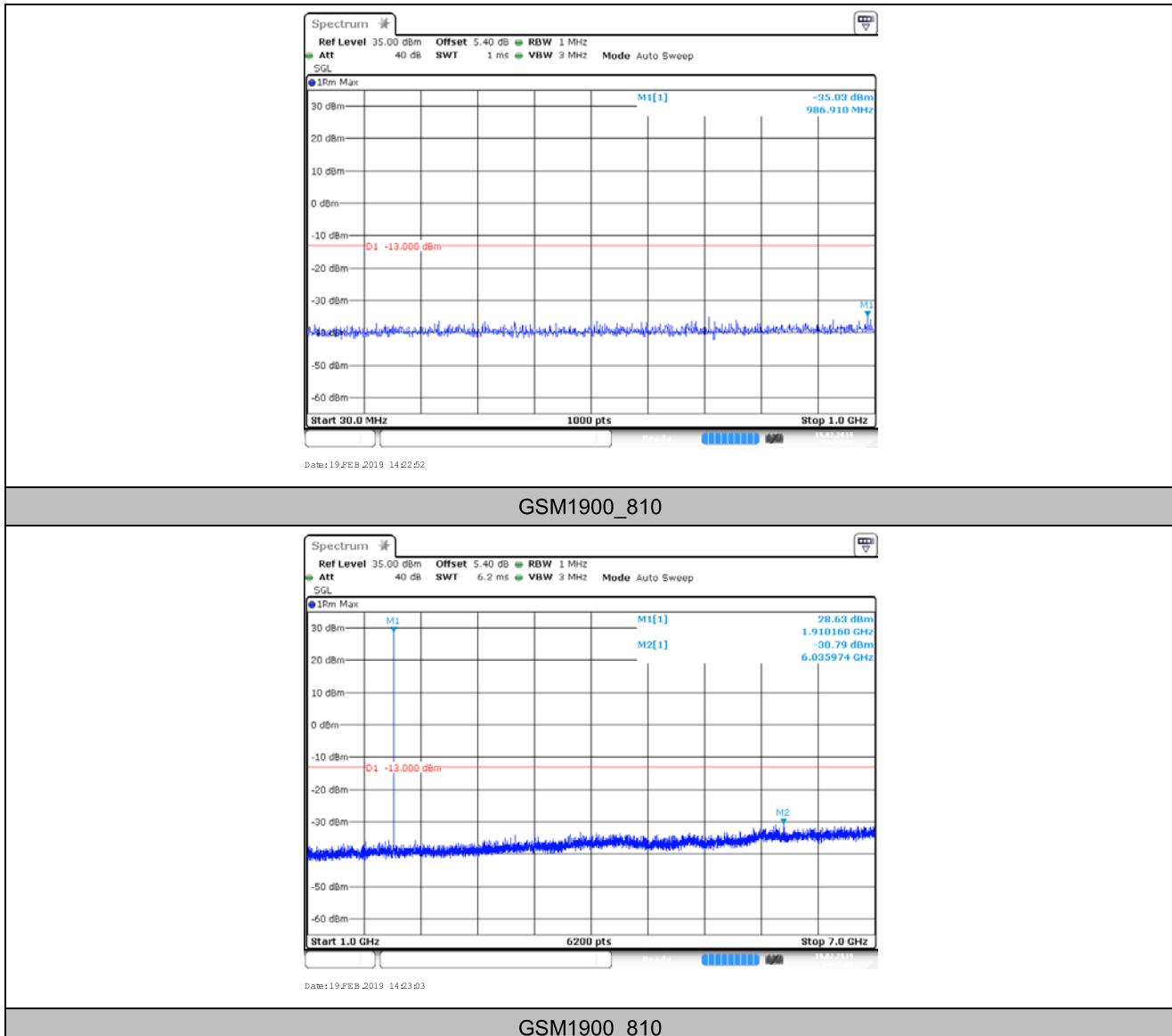
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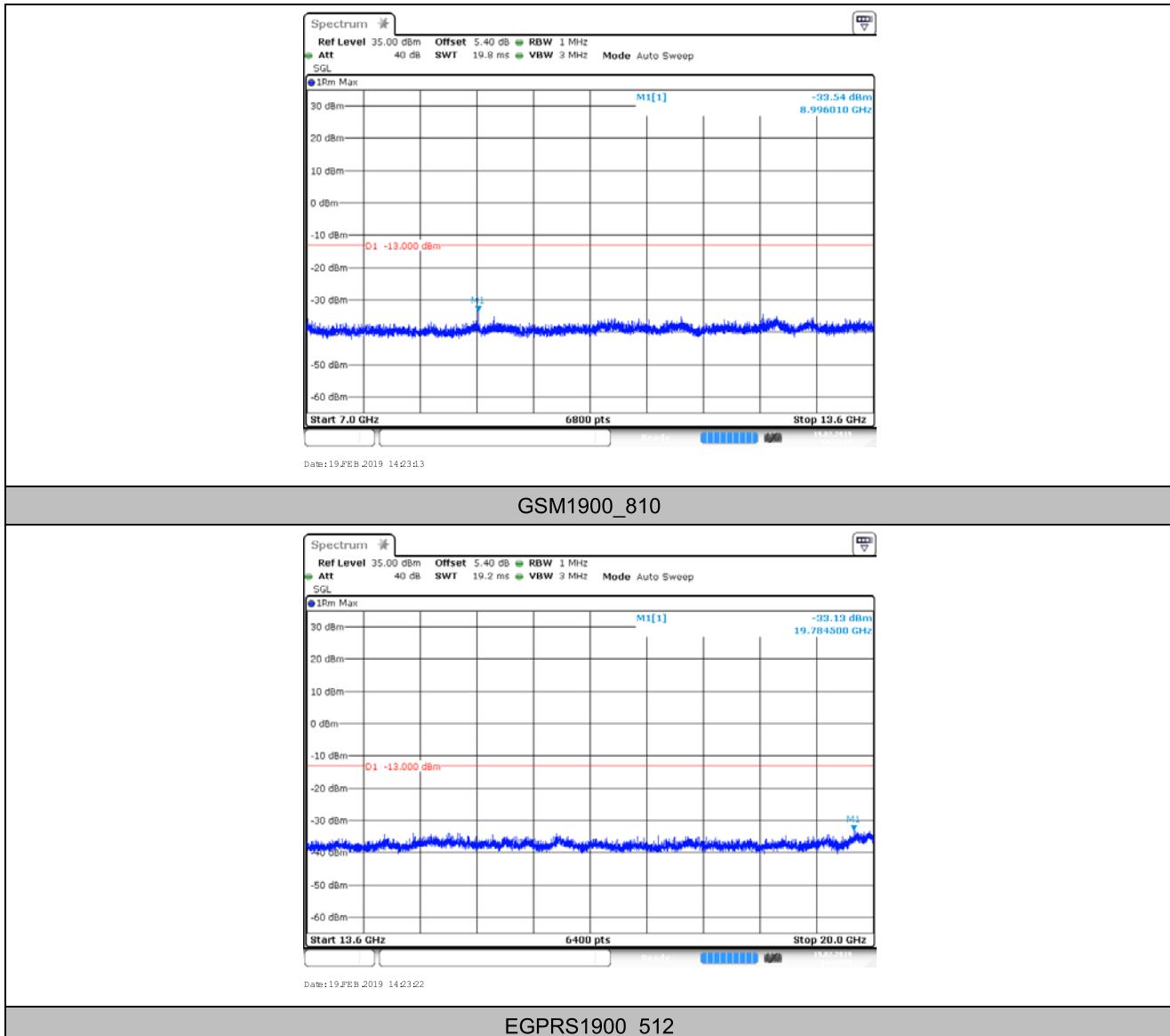
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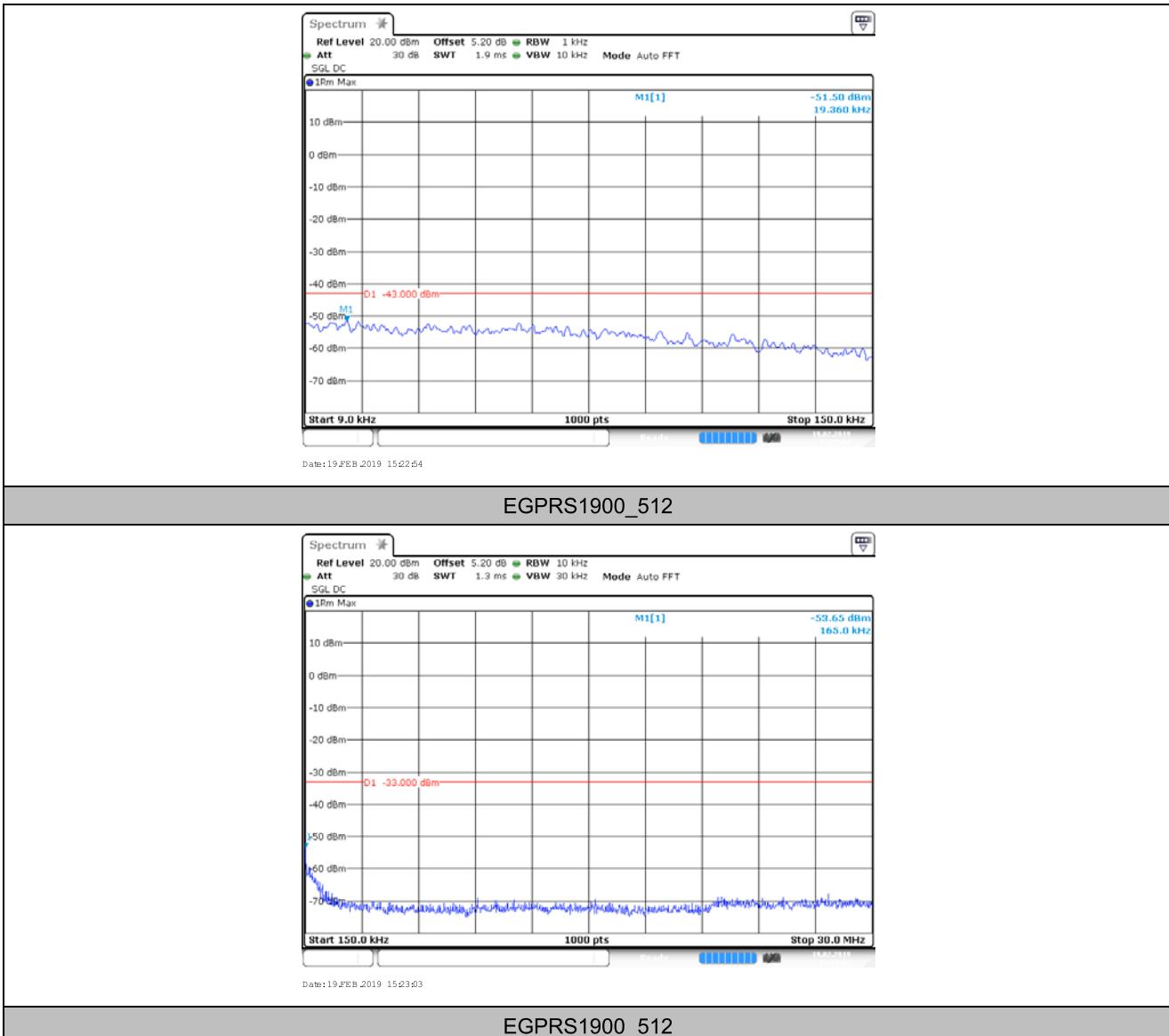
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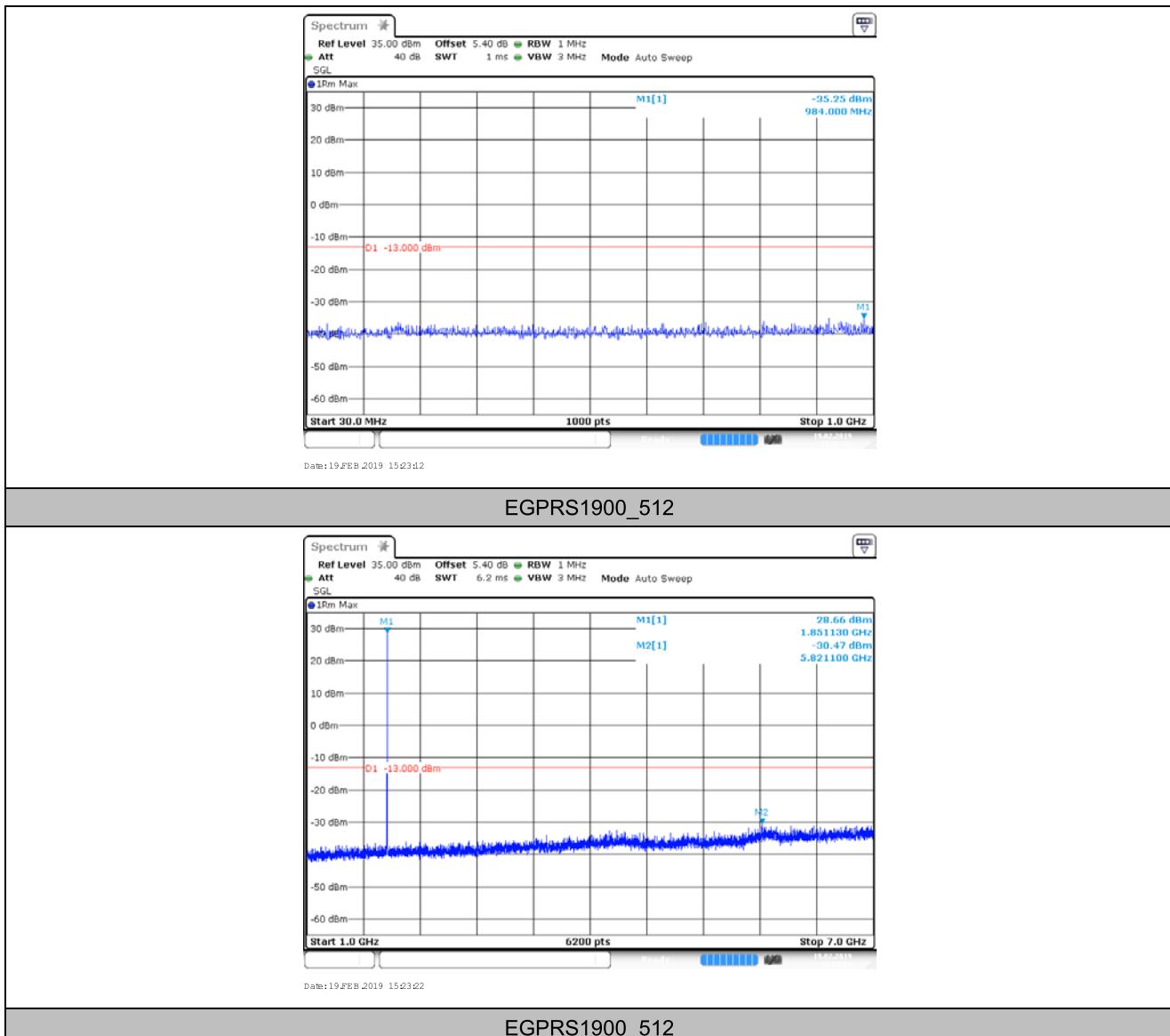
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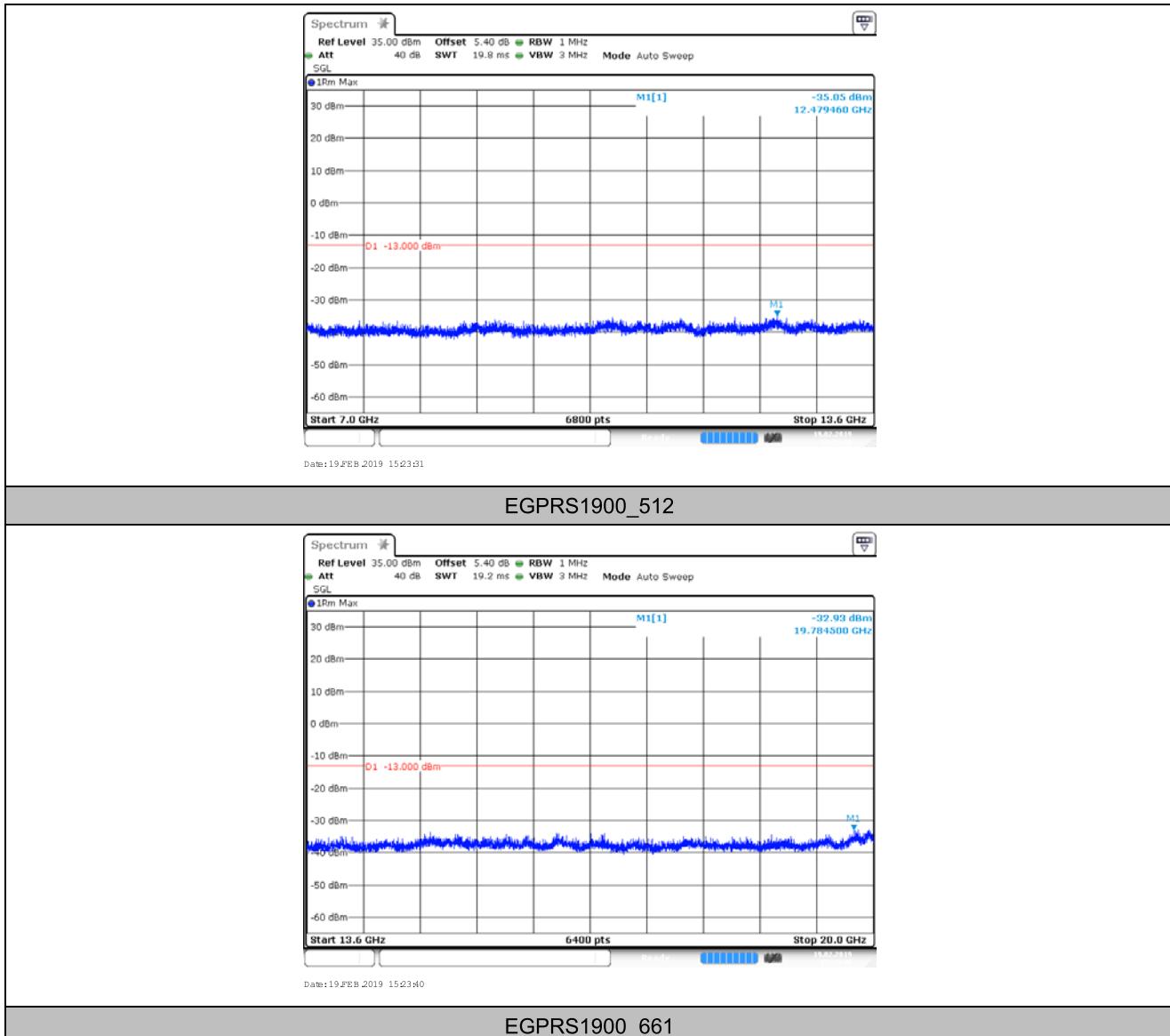
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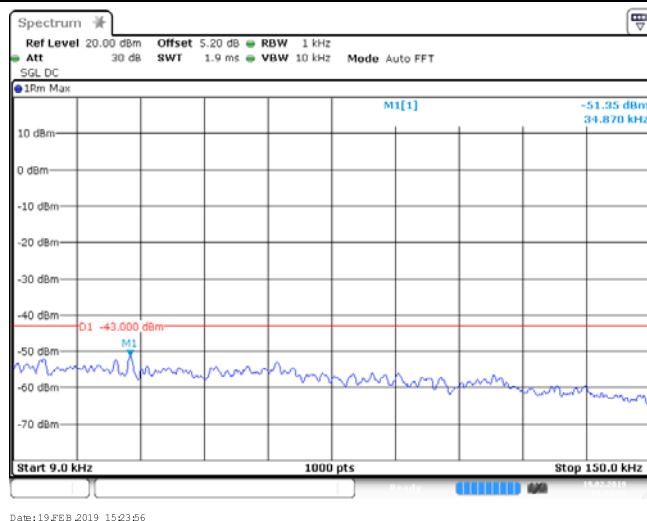
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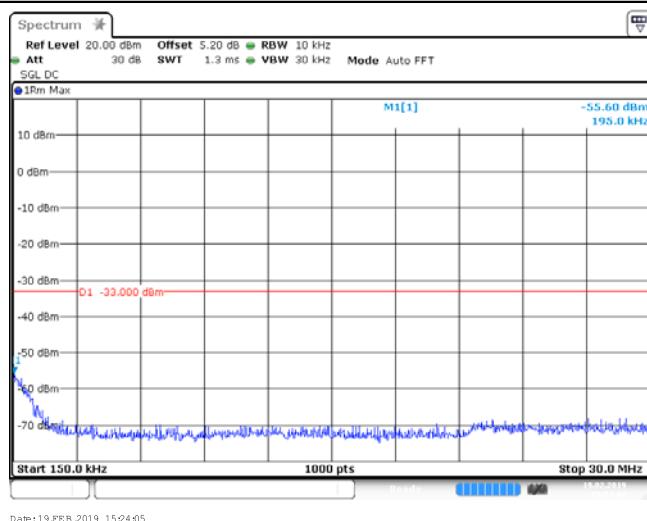


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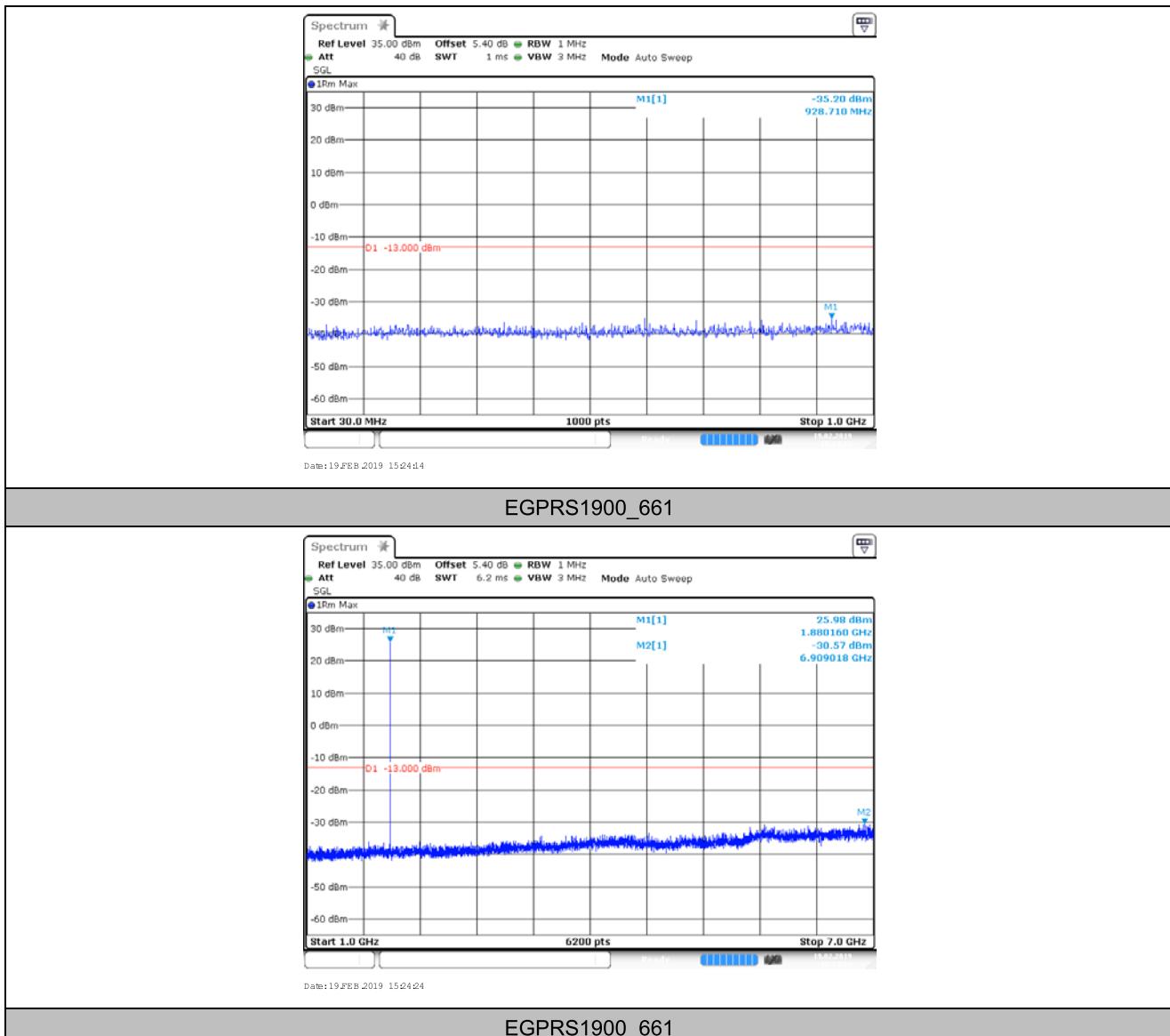
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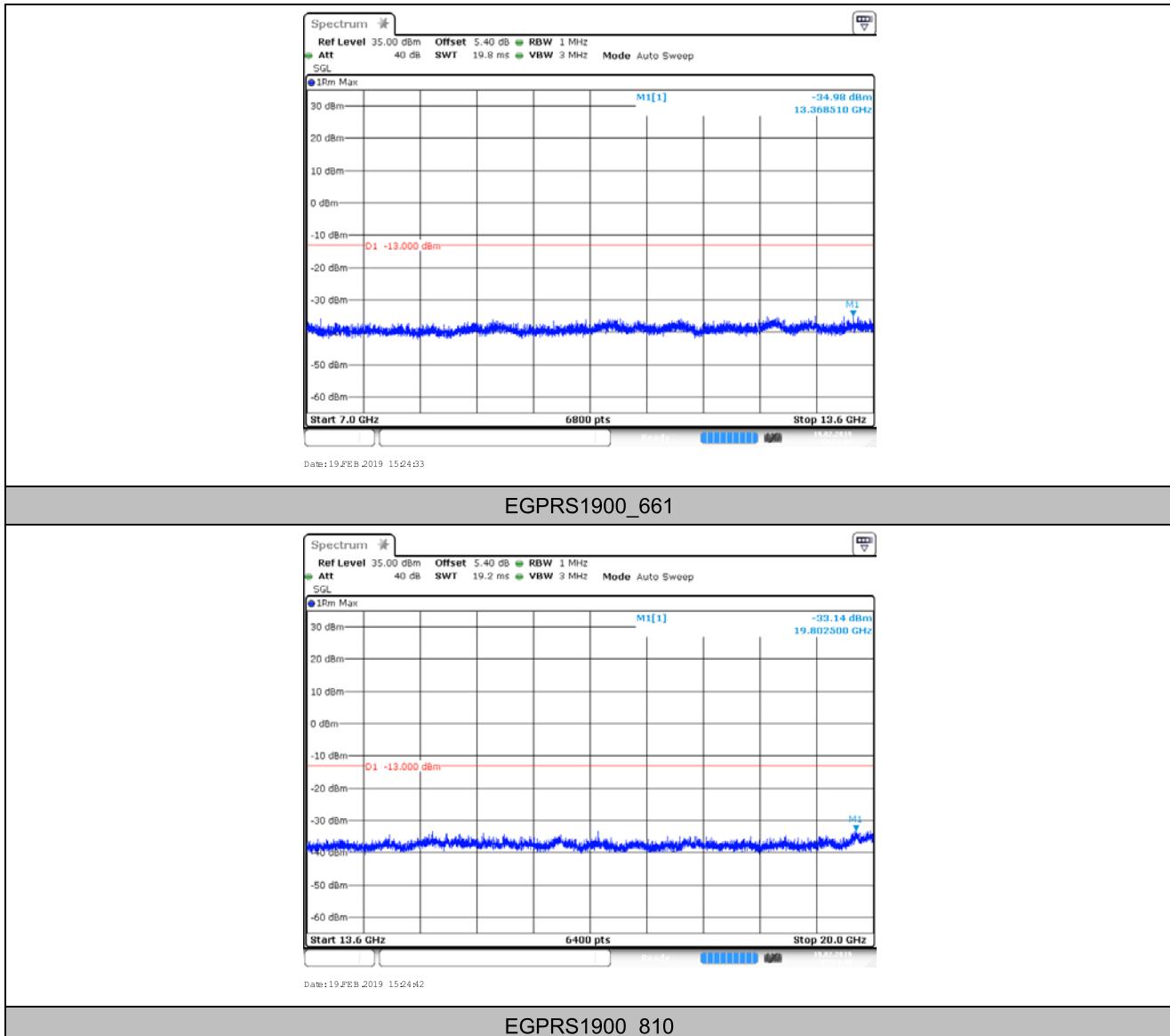
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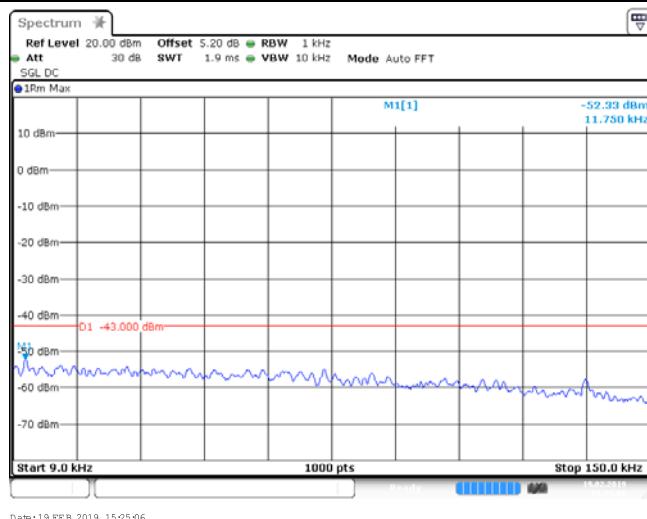
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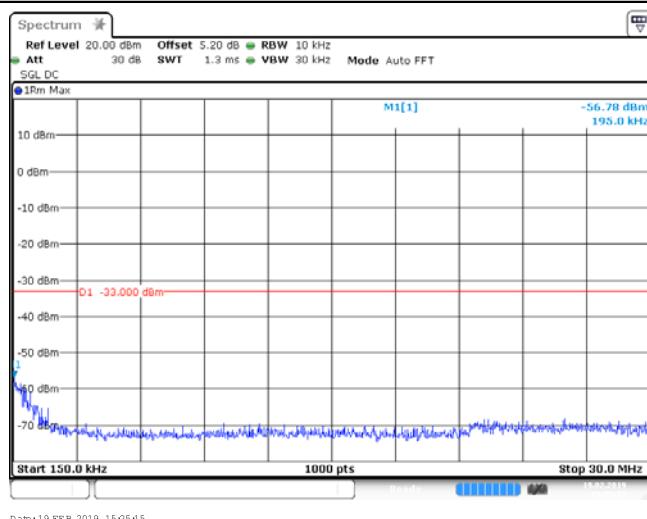


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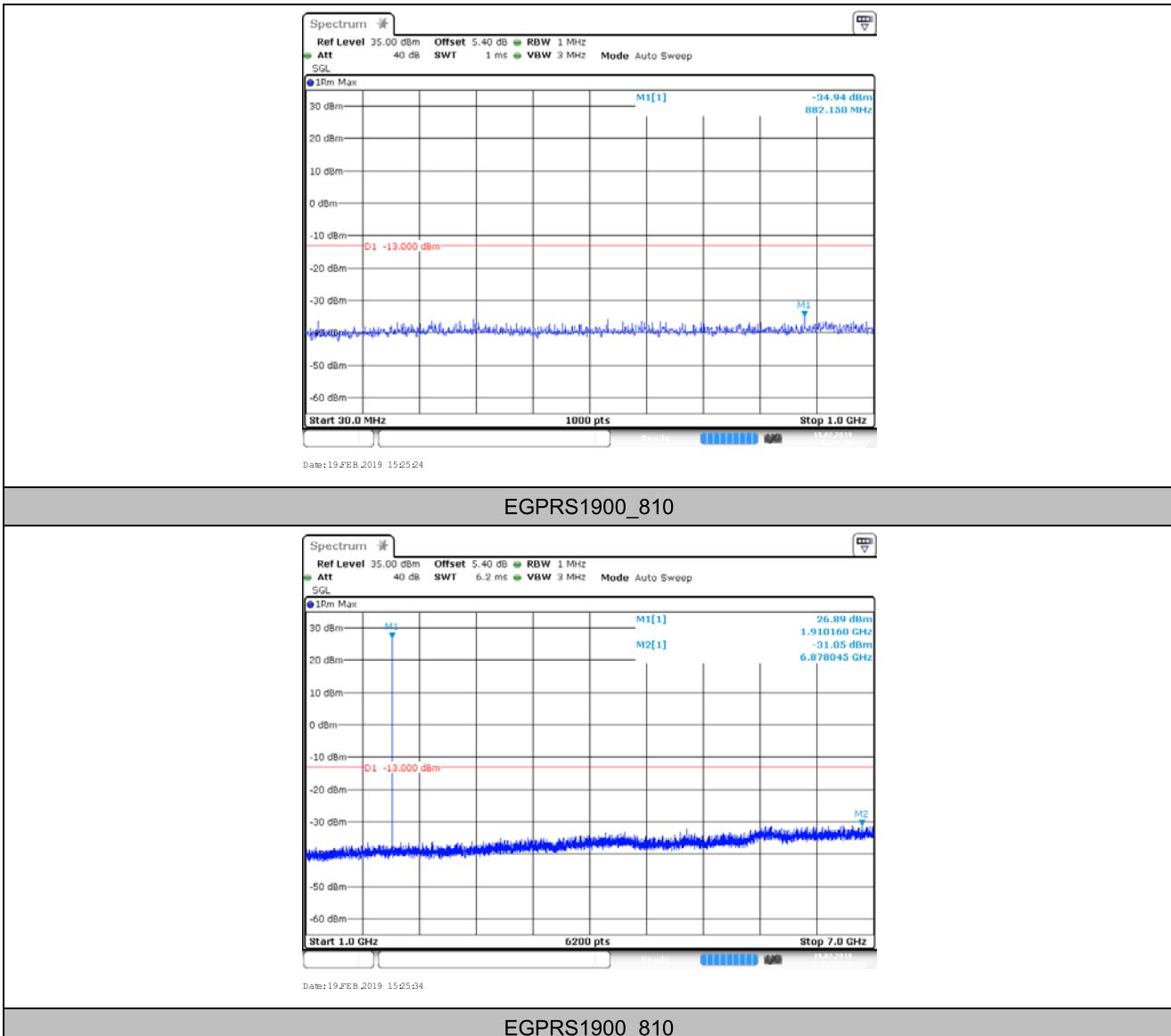
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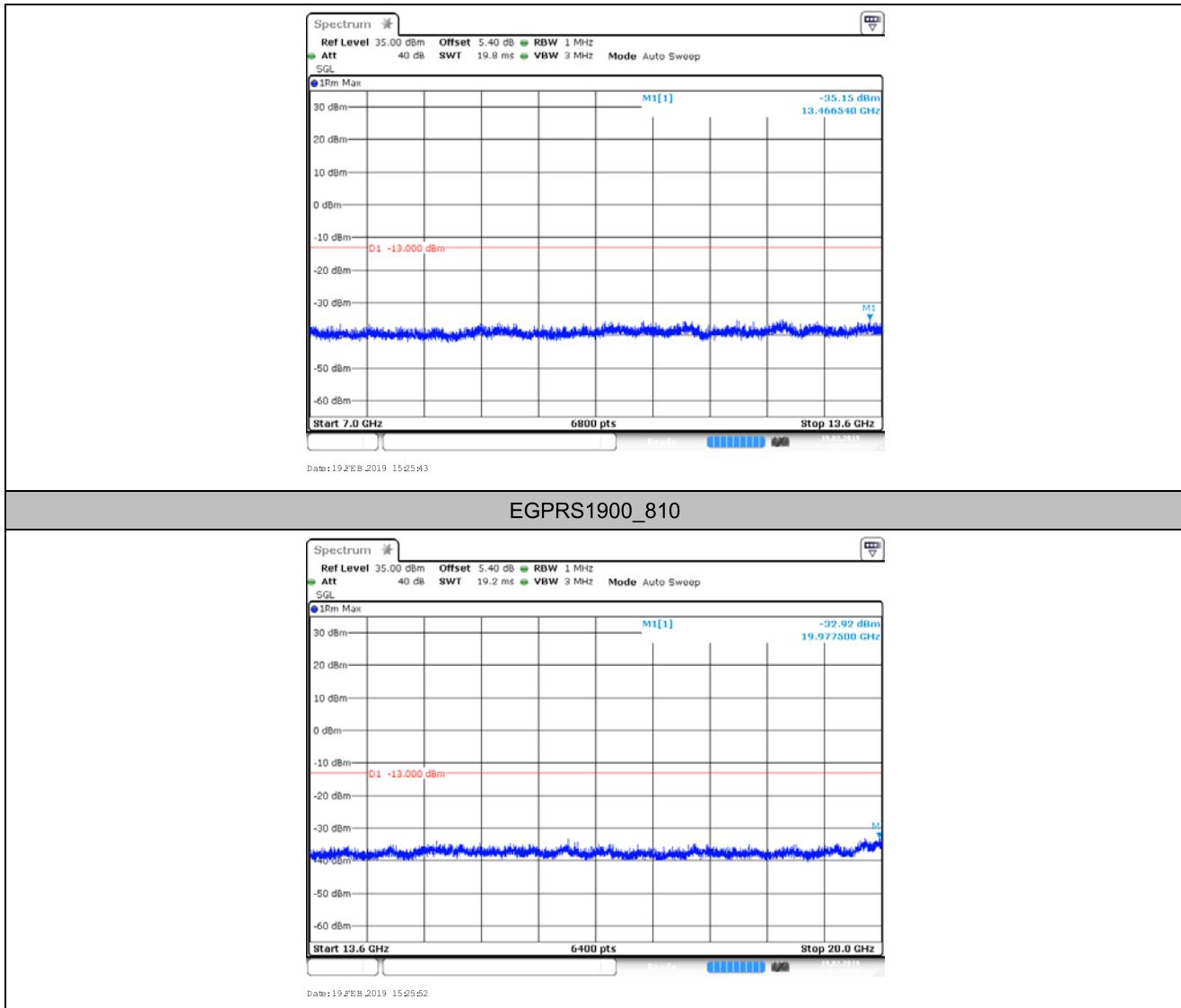
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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 66.1828 | -66.63 | -13.00 | 53.63 | Vertical |
| 111.1931 | -65.53 | -13.00 | 52.53 | Vertical |
| 671.7841 | -63.64 | -13.00 | 50.64 | Vertical |
| 3700.5234 | -55.14 | -13.00 | 42.14 | Vertical |
| 5550.5850 | -39.90 | -13.00 | 26.90 | Vertical |
| 17991.9997 | -31.01 | -13.00 | 18.01 | Vertical |
| 41.2526 | -61.90 | -13.00 | 48.90 | Horizontal |
| 164.3032 | -65.72 | -13.00 | 52.72 | Horizontal |
| 501.7831 | -66.42 | -13.00 | 53.42 | Horizontal |
| 2701.5403 | -36.64 | -13.00 | 23.64 | Horizontal |
| 5550.5850 | -51.25 | -13.00 | 38.25 | Horizontal |
| 16392.9464 | -36.03 | -13.00 | 23.03 | Horizontal |

7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 68.4624 | -66.23 | -13.00 | 53.23 | Vertical |
| 113.8607 | -65.28 | -13.00 | 52.28 | Vertical |
| 750.1640 | -62.39 | -13.00 | 49.39 | Vertical |
| 3760.0253 | -47.68 | -13.00 | 34.68 | Vertical |
| 5640.0880 | -40.72 | -13.00 | 27.72 | Vertical |
| 17988.4996 | -30.88 | -13.00 | 17.88 | Vertical |
| 41.2526 | -62.76 | -13.00 | 49.76 | Horizontal |
| 149.0250 | -67.35 | -13.00 | 54.35 | Horizontal |
| 388.3844 | -67.20 | -13.00 | 54.20 | Horizontal |
| 2701.1402 | -36.75 | -13.00 | 23.75 | Horizontal |
| 5640.0880 | -46.98 | -13.00 | 33.98 | Horizontal |
| 17990.9997 | -35.68 | -13.00 | 22.68 | Horizontal |

7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 69.5295 | -65.87 | -13.00 | 52.87 | Vertical |
| 119.1475 | -65.14 | -13.00 | 52.14 | Vertical |
| 729.5505 | -62.20 | -13.00 | 49.20 | Vertical |
| 3819.5273 | -48.74 | -13.00 | 35.74 | Vertical |

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| | | | | |
|------------|--------|--------|-------|------------|
| 5729.5910 | -44.25 | -13.00 | 31.25 | Vertical |
| 17997.4999 | -30.29 | -13.00 | 17.29 | Vertical |
| 41.2526 | -64.34 | -13.00 | 51.34 | Horizontal |
| 150.4315 | -63.39 | -13.00 | 50.39 | Horizontal |
| 499.7945 | -66.55 | -13.00 | 53.55 | Horizontal |
| 2697.9396 | -36.36 | -13.00 | 23.36 | Horizontal |
| 5729.5910 | -47.32 | -13.00 | 34.32 | Horizontal |
| 17986.4996 | -35.43 | -13.00 | 22.43 | Horizontal |

7.1.4. Spot Check worse mode

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 48.5279 | -70.28 | -13.00 | 57.28 | Vertical |
| 108.7194 | -63.20 | -13.00 | 50.20 | Vertical |
| 501.9771 | -65.67 | -13.00 | 52.67 | Vertical |
| 3760.0253 | -52.79 | -13.00 | 39.79 | Vertical |
| 5640.0880 | -36.32 | -13.00 | 23.32 | Vertical |
| 17993.4998 | -33.30 | -13.00 | 20.30 | Vertical |
| 44.2597 | -63.39 | -13.00 | 50.39 | Horizontal |
| 150.7710 | -65.16 | -13.00 | 52.16 | Horizontal |
| 247.4364 | -66.63 | -13.00 | 53.63 | Horizontal |
| 5640.0880 | -48.37 | -13.00 | 35.37 | Horizontal |
| 11247.2749 | -48.32 | -13.00 | 35.32 | Horizontal |
| 17909.9970 | -39.19 | -13.00 | 26.19 | Horizontal |

7.2. Test Band = GSM 850

7.2.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 75.6408 | -64.57 | -13.00 | 51.57 | Vertical |
| 111.6781 | -65.60 | -13.00 | 52.60 | Vertical |
| 531.7091 | -66.93 | -13.00 | 53.93 | Vertical |
| 1648.1296 | -56.49 | -13.00 | 43.49 | Vertical |
| 2472.6945 | -41.43 | -13.00 | 28.43 | Vertical |
| 17999.0000 | -30.97 | -13.00 | 17.97 | Vertical |
| 41.0101 | -64.31 | -13.00 | 51.31 | Horizontal |
| 150.5770 | -67.48 | -13.00 | 54.48 | Horizontal |
| 233.2252 | -68.65 | -13.00 | 55.65 | Horizontal |
| 1648.1296 | -45.20 | -13.00 | 32.20 | Horizontal |
| 2472.6945 | -36.09 | -13.00 | 23.09 | Horizontal |
| 17992.4998 | -35.48 | -13.00 | 22.48 | Horizontal |

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7.2.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 74.9132 | -64.01 | -13.00 | 51.01 | Vertical |
| 108.0889 | -65.42 | -13.00 | 52.42 | Vertical |
| 386.7353 | -67.84 | -13.00 | 54.84 | Vertical |
| 1673.3347 | -53.41 | -13.00 | 40.41 | Vertical |
| 2509.9020 | -46.76 | -13.00 | 33.76 | Vertical |
| 17989.9997 | -31.00 | -13.00 | 18.00 | Vertical |
| 46.6848 | -63.85 | -13.00 | 50.85 | Horizontal |
| 152.1291 | -66.74 | -13.00 | 53.74 | Horizontal |
| 235.0198 | -66.54 | -13.00 | 53.54 | Horizontal |
| 1673.3347 | -50.70 | -13.00 | 37.70 | Horizontal |
| 2509.9020 | -41.77 | -13.00 | 28.77 | Horizontal |
| 17981.9994 | -35.81 | -13.00 | 22.81 | Horizontal |

7.2.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 75.8833 | -61.85 | -13.00 | 48.85 | Vertical |
| 109.0105 | -65.52 | -13.00 | 52.52 | Vertical |
| 458.2764 | -67.76 | -13.00 | 54.76 | Vertical |
| 1697.3395 | -51.54 | -13.00 | 38.54 | Vertical |
| 2547.1094 | -48.92 | -13.00 | 35.92 | Vertical |
| 17987.9996 | -30.64 | -13.00 | 17.64 | Vertical |
| 41.2041 | -64.32 | -13.00 | 51.32 | Horizontal |
| 150.0435 | -67.87 | -13.00 | 54.87 | Horizontal |
| 230.5090 | -68.37 | -13.00 | 55.37 | Horizontal |
| 1697.7395 | -48.83 | -13.00 | 35.83 | Horizontal |
| 2546.3093 | -42.71 | -13.00 | 29.71 | Horizontal |
| 17980.4994 | -35.42 | -13.00 | 22.42 | Horizontal |

7.2.4. Spot Check worse mode

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 56.9188 | -69.11 | -13.00 | 56.11 | Vertical |
| 79.1815 | -64.62 | -13.00 | 51.62 | Vertical |
| 390.1305 | -66.52 | -13.00 | 53.52 | Vertical |
| 1672.9346 | -53.07 | -13.00 | 40.07 | Vertical |
| 2509.9020 | -44.39 | -13.00 | 31.39 | Vertical |
| 17994.9998 | -33.88 | -13.00 | 20.88 | Vertical |
| 44.2597 | -63.04 | -13.00 | 50.39 | Horizontal |
| 150.7710 | -65.52 | -13.00 | 52.16 | Horizontal |

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| | | | | |
|------------|--------|--------|-------|------------|
| 247.4364 | -66.50 | -13.00 | 53.63 | Horizontal |
| 5640.0880 | -45.80 | -13.00 | 35.37 | Horizontal |
| 11247.2749 | -39.87 | -13.00 | 35.32 | Horizontal |
| 17909.9970 | -38.37 | -13.00 | 26.19 | Horizontal |

Remark:

- 1) 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.
- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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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 | TN | 12.79 | 0.015512 | ±2.5 | PASS |
| GSM850 | 128 | VN | TN | 16.08 | 0.019508 | ±2.5 | PASS |
| GSM850 | 128 | VH | TN | 18.44 | 0.022367 | ±2.5 | PASS |
| GSM850 | 190 | VL | TN | 6.75 | 0.008066 | ±2.5 | PASS |
| GSM850 | 190 | VN | TN | 7.43 | 0.008876 | ±2.5 | PASS |
| GSM850 | 190 | VH | TN | 9.04 | 0.010806 | ±2.5 | PASS |
| GSM850 | 251 | VL | TN | 8.17 | 0.009623 | ±2.5 | PASS |
| GSM850 | 251 | VN | TN | 9.75 | 0.011487 | ±2.5 | PASS |
| GSM850 | 251 | VH | TN | 10.23 | 0.012058 | ±2.5 | PASS |
| EGPRS850 | 128 | VL | TN | 20.76 | 0.025188 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | TN | 23.15 | 0.028087 | ±2.5 | PASS |
| EGPRS850 | 128 | VH | TN | 21.99 | 0.026676 | ±2.5 | PASS |
| EGPRS850 | 190 | VL | TN | 20.82 | 0.024892 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | TN | 22.18 | 0.026513 | ±2.5 | PASS |
| EGPRS850 | 190 | VH | TN | 21.02 | 0.025123 | ±2.5 | PASS |
| GSM1900 | 512 | VL | TN | 2.45 | 0.001326 | ±2.5 | PASS |
| GSM1900 | 512 | VN | TN | -0.65 | -0.000349 | ±2.5 | PASS |
| GSM1900 | 512 | VH | TN | -4.00 | -0.002164 | ±2.5 | PASS |
| GSM1900 | 661 | VL | TN | -3.39 | -0.001803 | ±2.5 | PASS |
| GSM1900 | 661 | VN | TN | -3.65 | -0.001941 | ±2.5 | PASS |
| GSM1900 | 661 | VH | TN | -1.03 | -0.000550 | ±2.5 | PASS |
| GSM1900 | 810 | VL | TN | 3.20 | 0.001674 | ±2.5 | PASS |
| GSM1900 | 810 | VN | TN | 6.49 | 0.003398 | ±2.5 | PASS |
| GSM1900 | 810 | VH | TN | 4.00 | 0.002096 | ±2.5 | PASS |
| EGPRS1900 | 512 | VL | TN | 2.39 | 0.001291 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | TN | 10.65 | 0.005758 | ±2.5 | PASS |
| EGPRS1900 | 512 | VH | TN | 9.78 | 0.005287 | ±2.5 | PASS |
| EGPRS1900 | 661 | VL | TN | 11.88 | 0.006320 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | TN | 13.56 | 0.007213 | ±2.5 | PASS |

8.2. Frequency Error Vs Temperature

| Temperature | | | | | | | |
|-------------|---------|---------------|------------------|----------------|-----------------|------|---------|
| BAND | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | ±2.5 | Verdict |
| GSM850 | 128 | VN | -30 | 15.14 | 0.018372 | ±2.5 | PASS |
| GSM850 | 128 | VN | -20 | 15.24 | 0.018489 | ±2.5 | PASS |
| GSM850 | 128 | VN | -10 | 12.88 | 0.015630 | ±2.5 | PASS |
| GSM850 | 128 | VN | 0 | 6.94 | 0.008422 | ±2.5 | PASS |

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| | | | | | | | |
|----------|-----|----|-----|-------|-----------|------|------|
| GSM850 | 128 | VN | 10 | 5.20 | 0.006307 | ±2.5 | PASS |
| GSM850 | 128 | VN | 20 | 4.13 | 0.005014 | ±2.5 | PASS |
| GSM850 | 128 | VN | 30 | 6.07 | 0.007364 | ±2.5 | PASS |
| GSM850 | 128 | VN | 40 | 4.16 | 0.005053 | ±2.5 | PASS |
| GSM850 | 128 | VN | 50 | 1.36 | 0.001645 | ±2.5 | PASS |
| GSM850 | 190 | VN | -30 | 8.10 | 0.009687 | ±2.5 | PASS |
| GSM850 | 190 | VN | -20 | 8.23 | 0.009841 | ±2.5 | PASS |
| GSM850 | 190 | VN | -10 | 10.65 | 0.012735 | ±2.5 | PASS |
| GSM850 | 190 | VN | 0 | 8.17 | 0.009764 | ±2.5 | PASS |
| GSM850 | 190 | VN | 10 | 7.81 | 0.009339 | ±2.5 | PASS |
| GSM850 | 190 | VN | 20 | 5.88 | 0.007024 | ±2.5 | PASS |
| GSM850 | 190 | VN | 30 | 4.71 | 0.005634 | ±2.5 | PASS |
| GSM850 | 190 | VN | 40 | 7.65 | 0.009146 | ±2.5 | PASS |
| GSM850 | 190 | VN | 50 | 5.49 | 0.006561 | ±2.5 | PASS |
| GSM850 | 251 | VN | -30 | 9.85 | 0.011601 | ±2.5 | PASS |
| GSM850 | 251 | VN | -20 | 6.20 | 0.007303 | ±2.5 | PASS |
| GSM850 | 251 | VN | -10 | 8.33 | 0.009814 | ±2.5 | PASS |
| GSM850 | 251 | VN | 0 | 7.91 | 0.009319 | ±2.5 | PASS |
| GSM850 | 251 | VN | 10 | 10.59 | 0.012476 | ±2.5 | PASS |
| GSM850 | 251 | VN | 20 | 7.97 | 0.009395 | ±2.5 | PASS |
| GSM850 | 251 | VN | 30 | 10.65 | 0.012552 | ±2.5 | PASS |
| GSM850 | 251 | VN | 40 | 6.30 | 0.007417 | ±2.5 | PASS |
| GSM850 | 251 | VN | 50 | 8.59 | 0.010118 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | -30 | 23.79 | 0.028870 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | -20 | 21.47 | 0.026050 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | -10 | 20.95 | 0.025423 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 0 | 23.18 | 0.028126 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 10 | 24.31 | 0.029497 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 20 | 19.79 | 0.024013 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 30 | 23.83 | 0.028909 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 40 | 23.34 | 0.028322 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 50 | 21.28 | 0.025815 | ±2.5 | PASS |
| GSM1900 | 512 | VN | -30 | 0.39 | 0.000209 | ±2.5 | PASS |
| GSM1900 | 512 | VN | -20 | -4.88 | -0.002635 | ±2.5 | PASS |
| GSM1900 | 512 | VN | -10 | -3.52 | -0.001902 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 0 | 1.19 | 0.000646 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 10 | -1.10 | -0.000593 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 20 | 1.74 | 0.000942 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 30 | -0.77 | -0.000419 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 40 | -4.81 | -0.002600 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 50 | -3.03 | -0.001640 | ±2.5 | PASS |
| GSM1900 | 661 | VN | -30 | 1.13 | 0.000601 | ±2.5 | PASS |
| GSM1900 | 661 | VN | -20 | -1.19 | -0.000635 | ±2.5 | PASS |
| GSM1900 | 661 | VN | -10 | -1.29 | -0.000687 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 0 | -7.49 | -0.003984 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 10 | -5.13 | -0.002731 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 20 | -7.14 | -0.003795 | ±2.5 | PASS |

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| | | | | | | | |
|-----------|-----|----|-----|--------|-----------|------|------|
| GSM1900 | 661 | VN | 30 | -4.33 | -0.002301 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 40 | -7.20 | -0.003830 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 50 | -9.52 | -0.005066 | ±2.5 | PASS |
| GSM1900 | 810 | VN | -30 | 2.97 | 0.001555 | ±2.5 | PASS |
| GSM1900 | 810 | VN | -20 | -1.65 | -0.000862 | ±2.5 | PASS |
| GSM1900 | 810 | VN | -10 | -2.65 | -0.001386 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 0 | -1.29 | -0.000676 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 10 | 2.58 | 0.001352 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 20 | -1.81 | -0.000947 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 30 | -7.30 | -0.003821 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 40 | -10.11 | -0.005291 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 50 | 3.45 | 0.001809 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | -30 | 13.69 | 0.007399 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | -20 | 11.14 | 0.006020 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | -10 | 12.43 | 0.006718 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 0 | 12.62 | 0.006823 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 10 | 13.30 | 0.007189 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 20 | 10.17 | 0.005497 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 30 | 12.43 | 0.006718 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 40 | 13.50 | 0.007294 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 50 | 10.04 | 0.005427 | ±2.5 | PASS |

The End

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