

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 | --- | 31.50 | 27.56 | 38.45 | PASS |
| GSM850 | 190 | --- | 31.55 | 27.61 | 38.45 | PASS |
| GSM850 | 251 | --- | 31.31 | 27.37 | 38.45 | PASS |
| EGPRS850 (GMSK) | 128 | 1 | 31.56 | 27.62 | 38.45 | PASS |
| EGPRS850 (GMSK) | 128 | 2 | 29.94 | 26.00 | 38.45 | PASS |
| EGPRS850 (GMSK) | 128 | 3 | 28.85 | 24.91 | 38.45 | PASS |
| EGPRS850 (GMSK) | 128 | 4 | 27.50 | 23.56 | 38.45 | PASS |
| EGPRS850 (GMSK) | 190 | 1 | 31.51 | 27.57 | 38.45 | PASS |
| EGPRS850 (GMSK) | 190 | 2 | 29.81 | 25.87 | 38.45 | PASS |
| EGPRS850 (GMSK) | 190 | 3 | 28.68 | 24.74 | 38.45 | PASS |
| EGPRS850 (GMSK) | 190 | 4 | 27.31 | 23.37 | 38.45 | PASS |
| EGPRS850 (GMSK) | 251 | 1 | 31.32 | 27.38 | 38.45 | PASS |
| EGPRS850 (GMSK) | 251 | 2 | 29.55 | 25.61 | 38.45 | PASS |
| EGPRS850 (GMSK) | 251 | 3 | 28.41 | 24.47 | 38.45 | PASS |
| EGPRS850 (GMSK) | 251 | 4 | 27.08 | 23.14 | 38.45 | PASS |
| EGPRS850 (8PSK) | 128 | 1 | 27.72 | 23.78 | 38.45 | PASS |
| EGPRS850 (8PSK) | 128 | 2 | 25.34 | 21.40 | 38.45 | PASS |
| EGPRS850 (8PSK) | 128 | 3 | 23.67 | 19.73 | 38.45 | PASS |
| EGPRS850 (8PSK) | 128 | 4 | 23.06 | 19.12 | 38.45 | PASS |
| EGPRS850 (8PSK) | 190 | 1 | 27.54 | 23.60 | 38.45 | PASS |
| EGPRS850 (8PSK) | 190 | 2 | 25.06 | 21.12 | 38.45 | PASS |
| EGPRS850 (8PSK) | 190 | 3 | 23.43 | 19.49 | 38.45 | PASS |
| EGPRS850 (8PSK) | 190 | 4 | 22.82 | 18.88 | 38.45 | PASS |
| EGPRS850 (8PSK) | 251 | 1 | 27.45 | 23.51 | 38.45 | PASS |
| EGPRS850 (8PSK) | 251 | 2 | 24.98 | 21.04 | 38.45 | PASS |
| EGPRS850 (8PSK) | 251 | 3 | 23.36 | 19.42 | 38.45 | PASS |
| EGPRS850 (8PSK) | 251 | 4 | 22.75 | 18.81 | 38.45 | PASS |

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| Band | Channel | Slot | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|------------------|---------|------|-----------------------|------------|------------|---------|
| GSM1900 | 512 | --- | 29.96 | 28.96 | 33.00 | PASS |
| GSM1900 | 661 | --- | 29.91 | 28.91 | 33.00 | PASS |
| GSM1900 | 810 | --- | 30.05 | 29.05 | 33.00 | PASS |
| EGPRS1900 (GMSK) | 512 | 1 | 29.98 | 28.98 | 33.00 | PASS |
| EGPRS1900 (GMSK) | 512 | 2 | 28.16 | 27.16 | 33.00 | PASS |
| EGPRS1900 (GMSK) | 512 | 3 | 25.95 | 24.95 | 33.00 | PASS |
| EGPRS1900 (GMSK) | 512 | 4 | 24.77 | 23.77 | 33.00 | PASS |
| EGPRS1900 (GMSK) | 661 | 1 | 30.00 | 29.00 | 33.00 | PASS |
| EGPRS1900 (GMSK) | 661 | 2 | 28.19 | 27.19 | 33.00 | PASS |
| EGPRS1900 (GMSK) | 661 | 3 | 26.01 | 25.01 | 33.00 | PASS |
| EGPRS1900 (GMSK) | 661 | 4 | 24.81 | 23.81 | 33.00 | PASS |
| EGPRS1900 (GMSK) | 810 | 1 | 30.14 | 29.14 | 33.00 | PASS |
| EGPRS1900 (GMSK) | 810 | 2 | 28.38 | 27.38 | 33.00 | PASS |
| EGPRS1900 (GMSK) | 810 | 3 | 26.22 | 25.22 | 33.00 | PASS |
| EGPRS1900 (GMSK) | 810 | 4 | 25.06 | 24.06 | 33.00 | PASS |
| EGPRS1900 (8PSK) | 512 | 1 | 27.38 | 26.38 | 33.00 | PASS |
| EGPRS1900 (8PSK) | 512 | 2 | 24.77 | 23.77 | 33.00 | PASS |
| EGPRS1900 (8PSK) | 512 | 3 | 22.75 | 21.75 | 33.00 | PASS |
| EGPRS1900 (8PSK) | 512 | 4 | 21.76 | 20.76 | 33.00 | PASS |
| EGPRS1900 (8PSK) | 661 | 1 | 27.28 | 26.28 | 33.00 | PASS |
| EGPRS1900 (8PSK) | 661 | 2 | 24.65 | 23.65 | 33.00 | PASS |
| EGPRS1900 (8PSK) | 661 | 3 | 22.71 | 21.71 | 33.00 | PASS |
| EGPRS1900 (8PSK) | 661 | 4 | 21.75 | 20.75 | 33.00 | PASS |
| EGPRS1900 (8PSK) | 810 | 1 | 27.51 | 26.51 | 33.00 | PASS |
| EGPRS1900 (8PSK) | 810 | 2 | 24.94 | 23.94 | 33.00 | PASS |
| EGPRS1900 (8PSK) | 810 | 3 | 23.14 | 22.14 | 33.00 | PASS |
| EGPRS1900 (8PSK) | 810 | 4 | 22.05 | 21.05 | 33.00 | PASS |

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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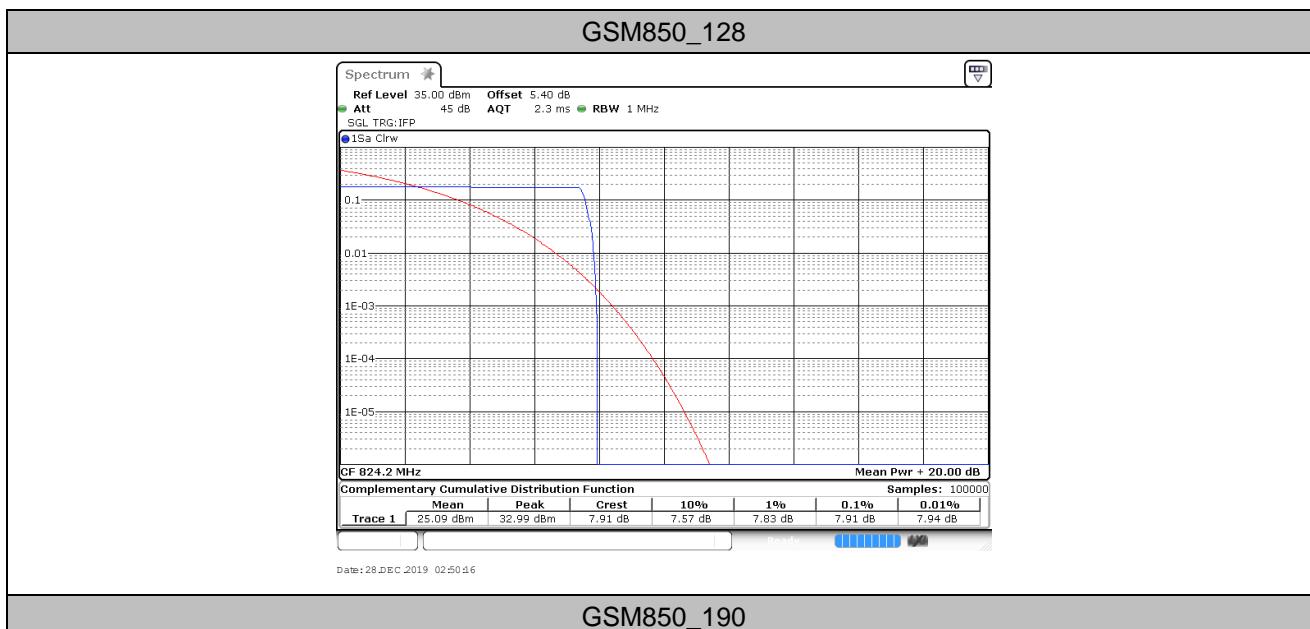
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2. Peak-to-Average Ratio

2.1. Test Result

| Band | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-----------|---------|---------------------------|-----------|---------|
| GSM850 | 128 | 7.91 | 13 | PASS |
| GSM850 | 190 | 7.91 | 13 | PASS |
| GSM850 | 251 | 7.86 | 13 | PASS |
| EGPRS850 | 128 | 10.93 | 13 | PASS |
| EGPRS850 | 190 | 10.93 | 13 | PASS |
| EGPRS850 | 251 | 10.46 | 13 | PASS |
| GSM1900 | 512 | 7.77 | 13 | PASS |
| GSM1900 | 661 | 7.74 | 13 | PASS |
| GSM1900 | 810 | 7.77 | 13 | PASS |
| EGPRS1900 | 512 | 9.86 | 13 | PASS |
| EGPRS1900 | 661 | 10.46 | 13 | PASS |
| EGPRS1900 | 810 | 10.38 | 13 | PASS |

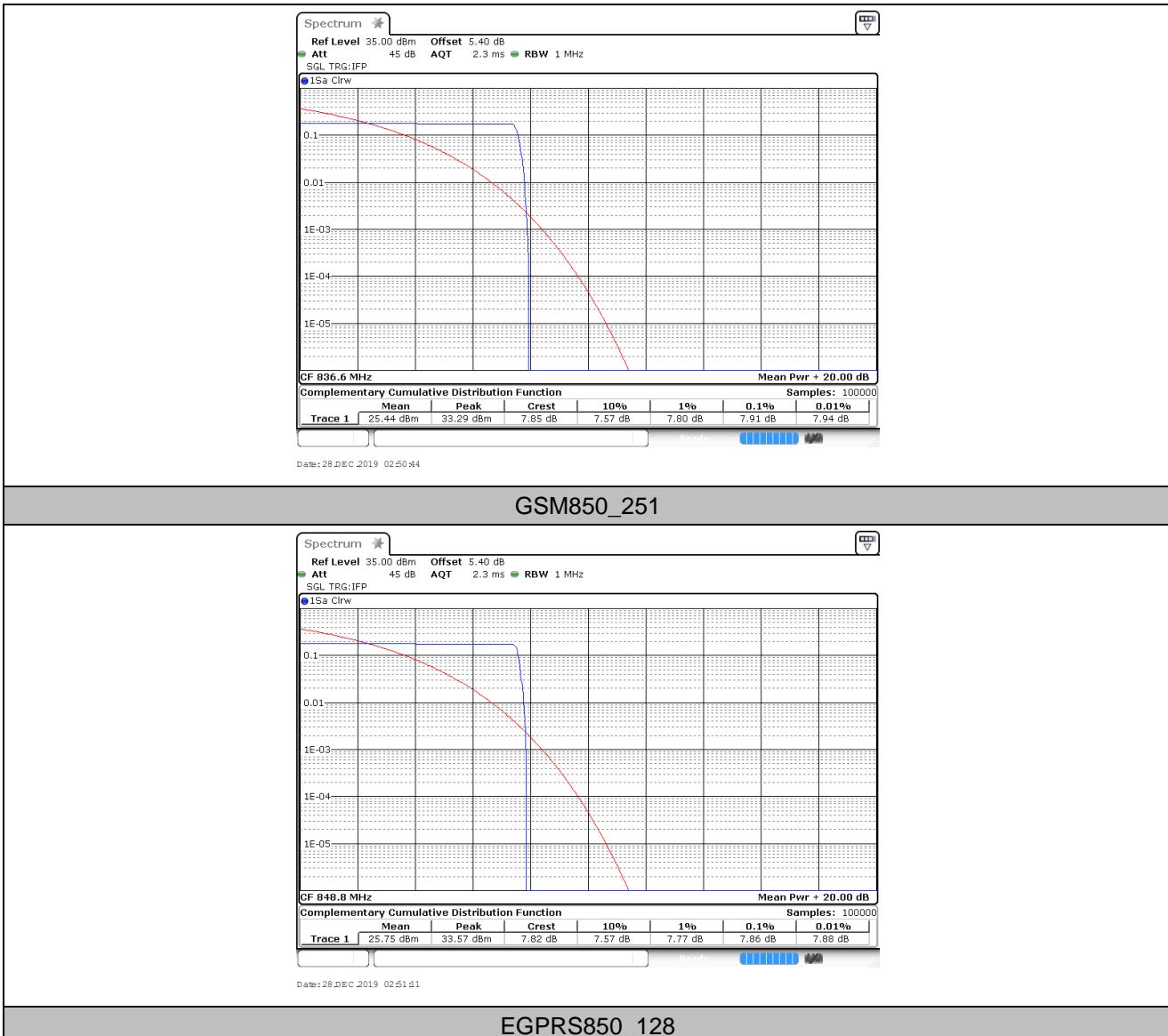
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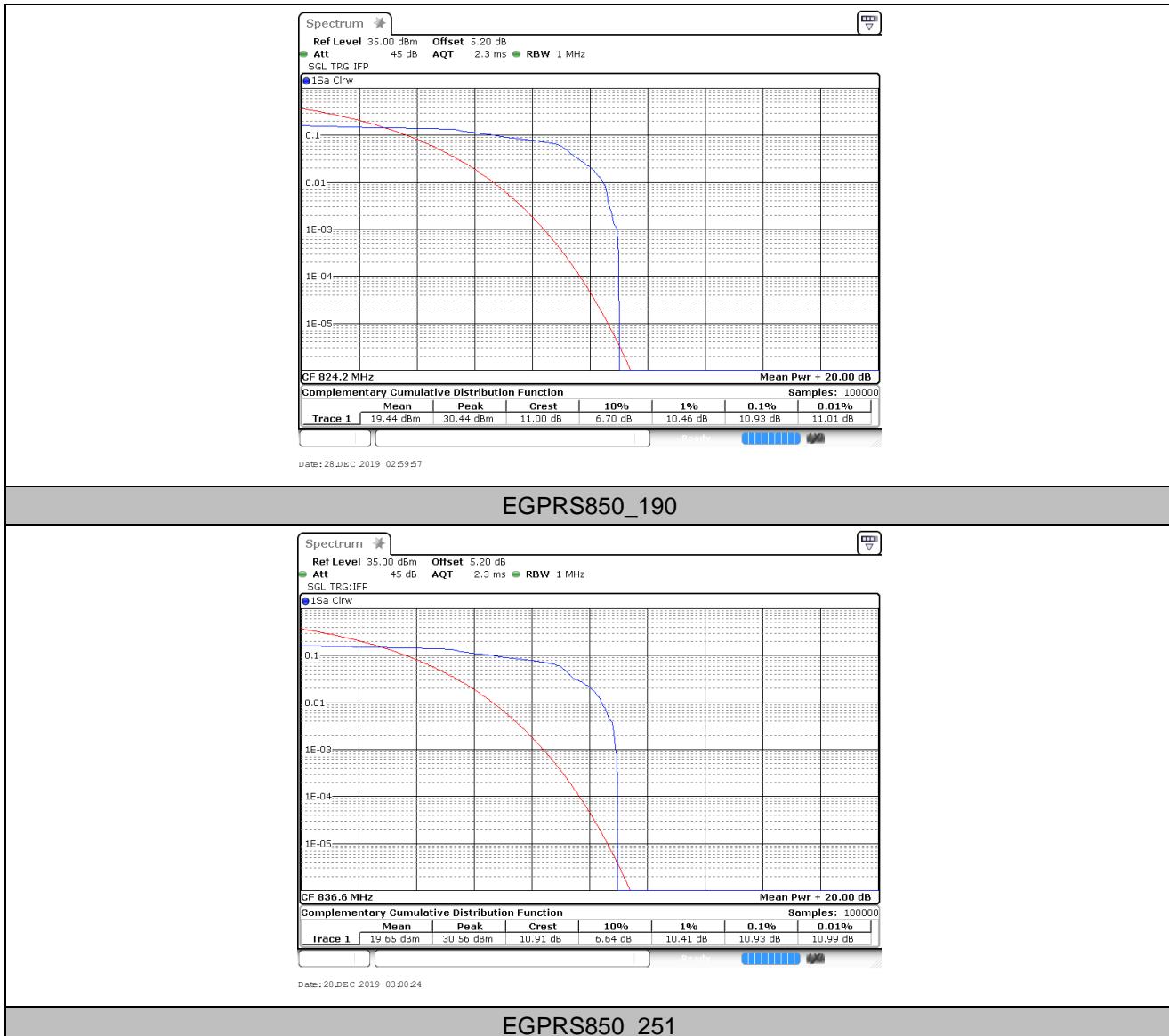
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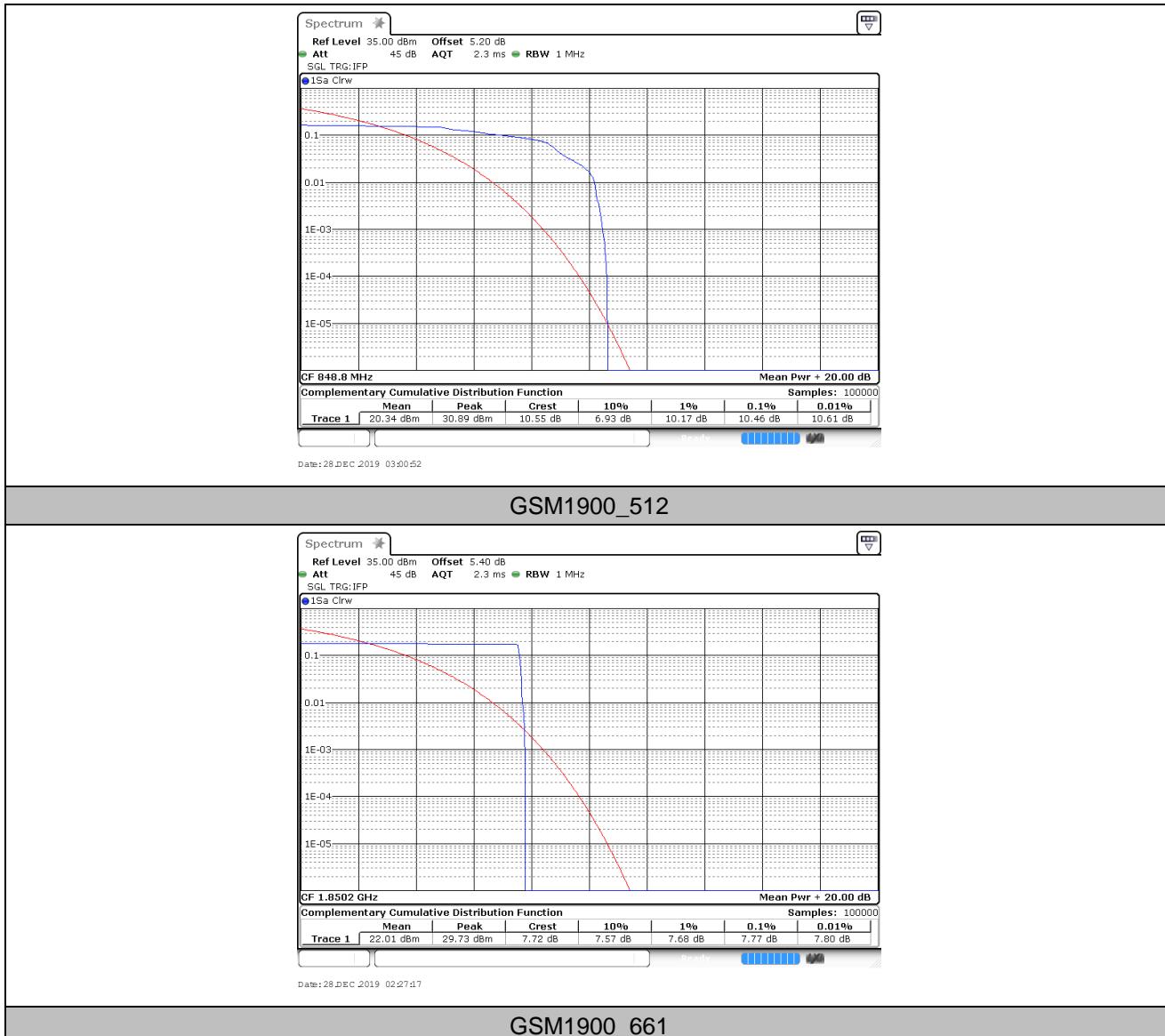
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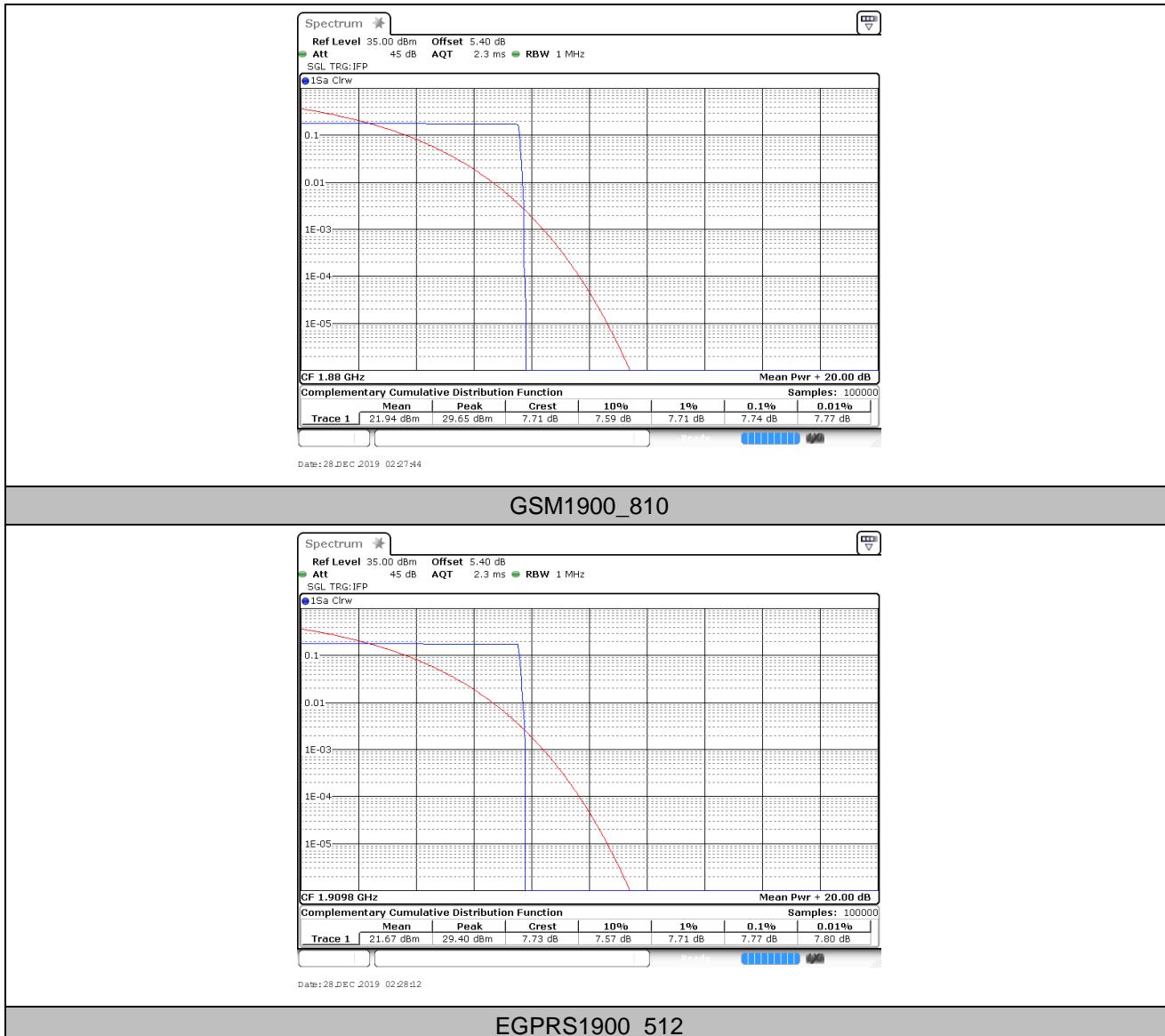
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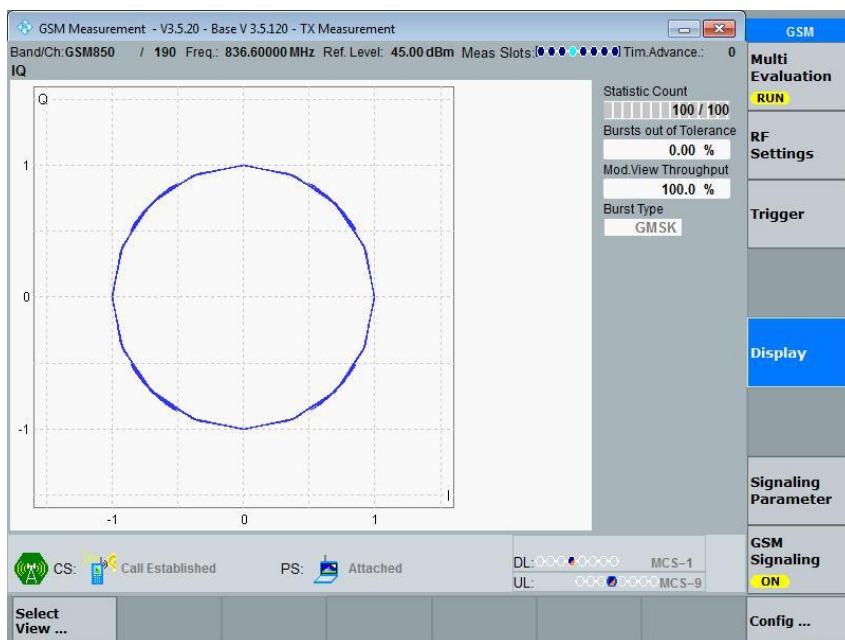
3. Modulation Characteristics

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



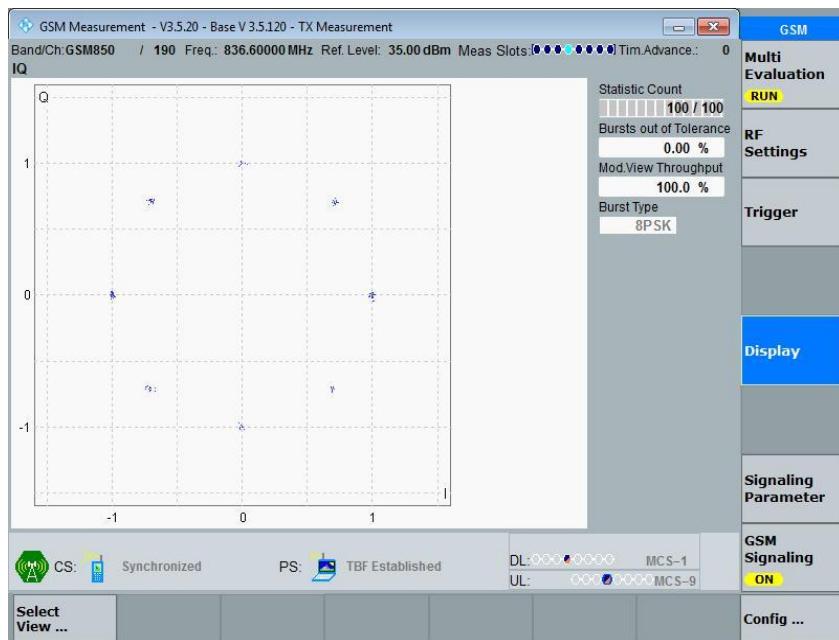
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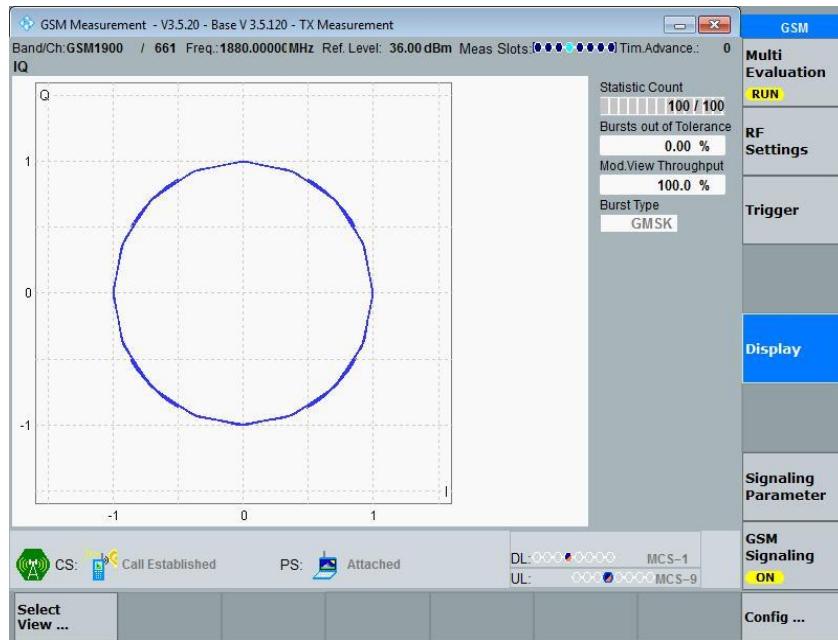
3.1.1.2. Test Mode = GSM/TM2**3.1.1.2.1. Test Channel = MCH**

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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**

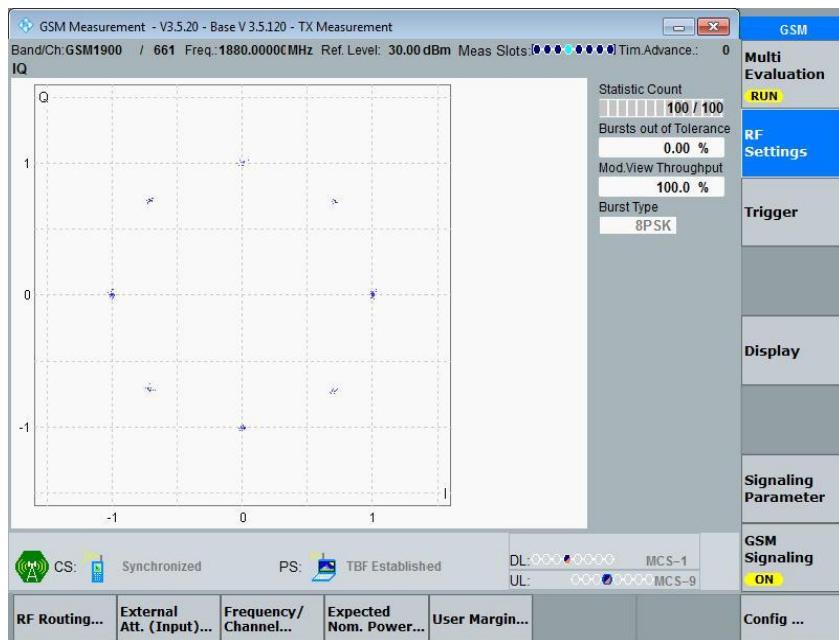
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3.1.2.2. Test Mode = GSM/TM2**3.1.2.2.1. Test Channel = MCH**

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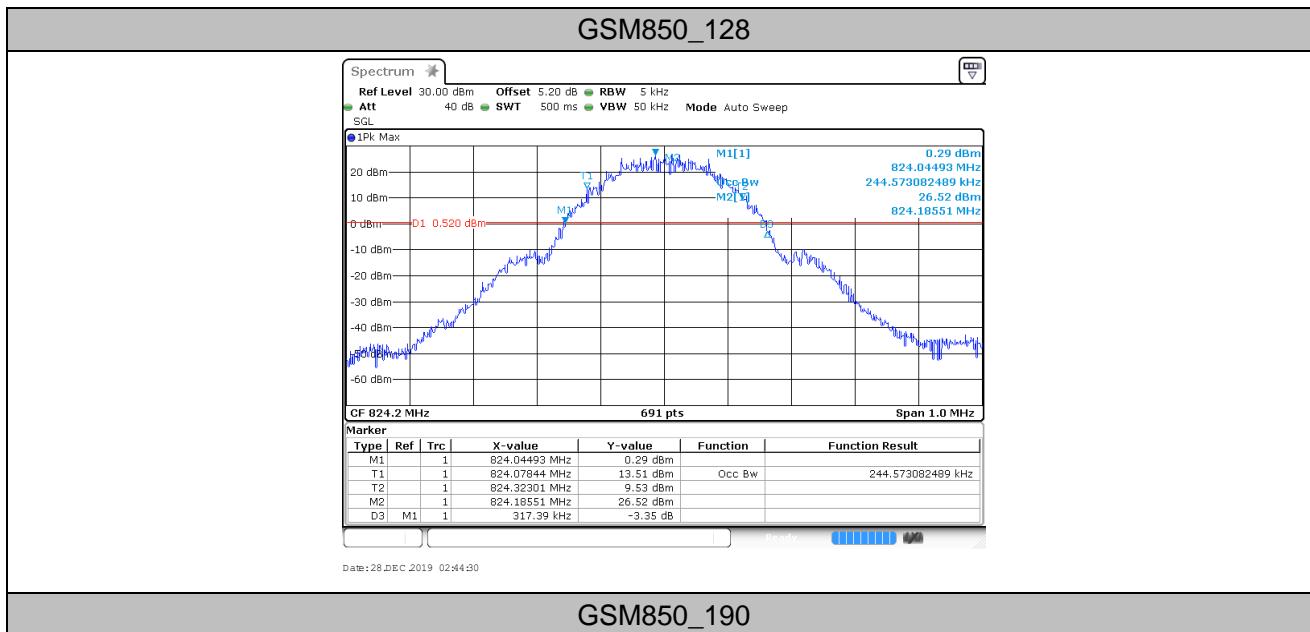
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

| Band | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-----------|---------|--------------------------|----------------------|------------|---------|
| GSM850 | 128 | 244.57 | 317.39 | --- | PASS |
| GSM850 | 190 | 246.02 | 317.39 | --- | PASS |
| GSM850 | 251 | 247.47 | 308.70 | --- | PASS |
| EGPRS850 | 128 | 250.36 | 302.90 | --- | PASS |
| EGPRS850 | 190 | 247.47 | 298.55 | --- | PASS |
| EGPRS850 | 251 | 248.91 | 302.90 | --- | PASS |
| GSM1900 | 512 | 247.47 | 295.65 | --- | PASS |
| GSM1900 | 661 | 246.02 | 307.25 | --- | PASS |
| GSM1900 | 810 | 247.47 | 307.25 | --- | PASS |
| EGPRS1900 | 512 | 248.91 | 304.35 | --- | PASS |
| EGPRS1900 | 661 | 250.36 | 302.90 | --- | PASS |
| EGPRS1900 | 810 | 244.57 | 284.06 | --- | PASS |

4.2. Test Plots

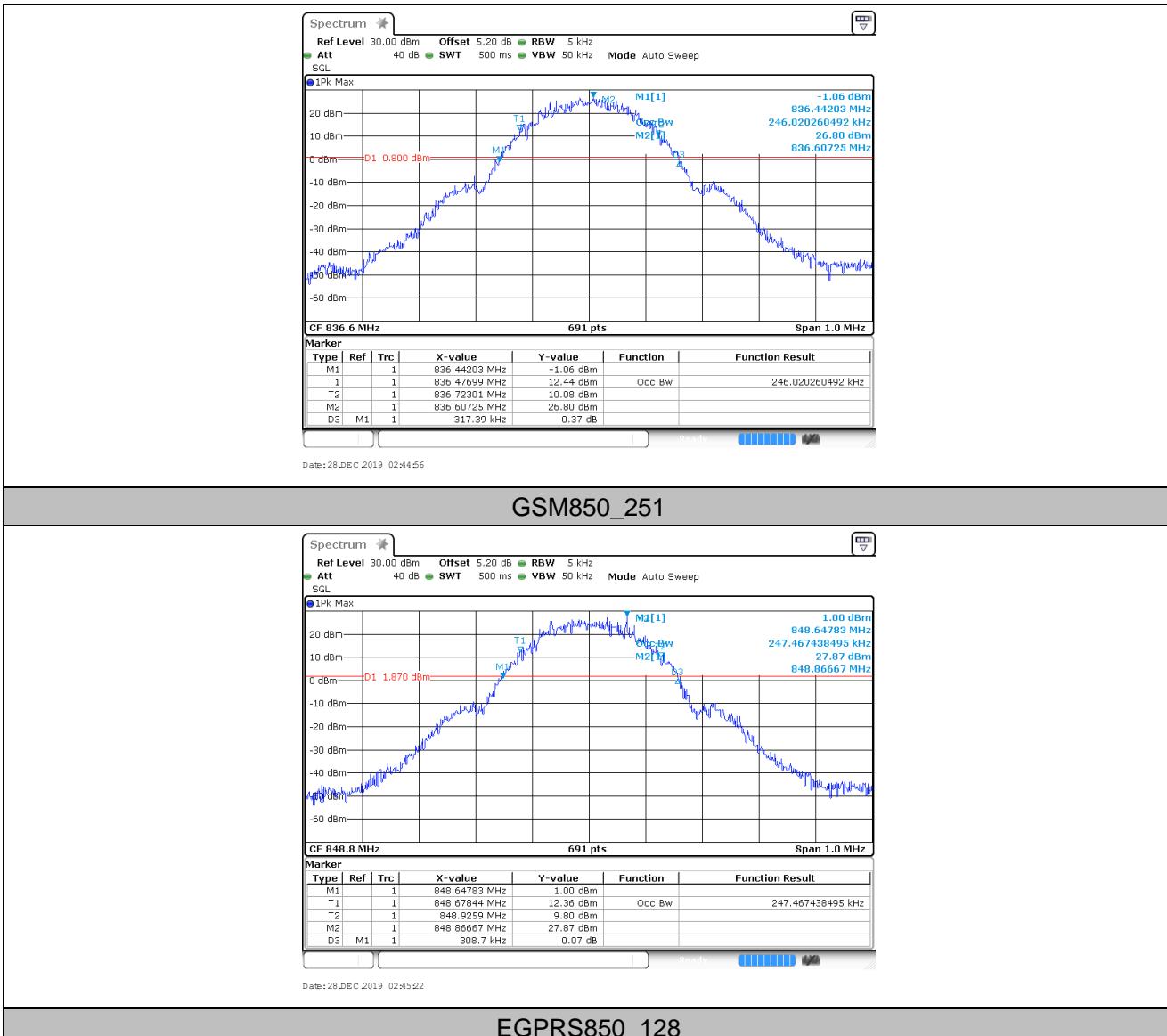


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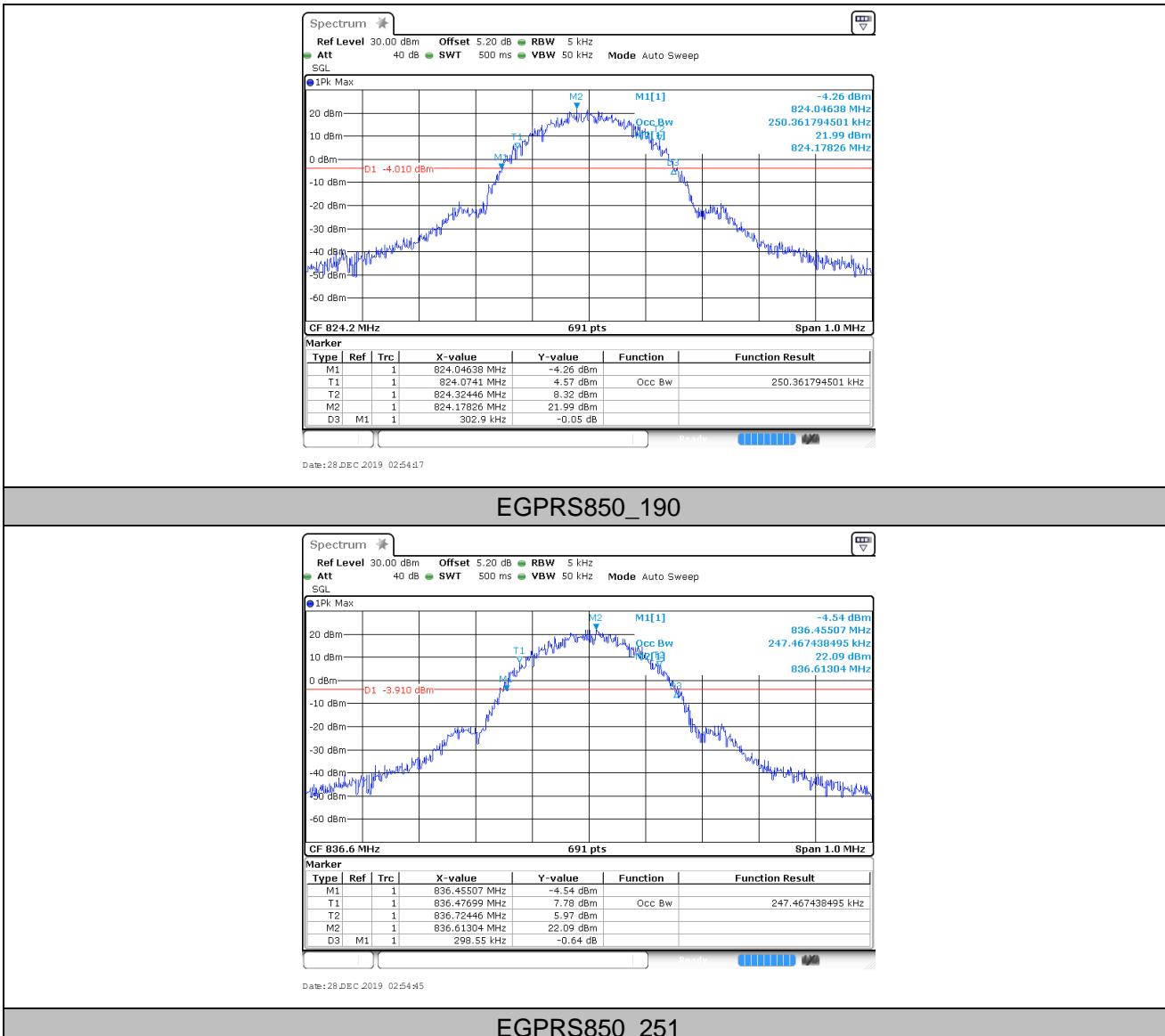
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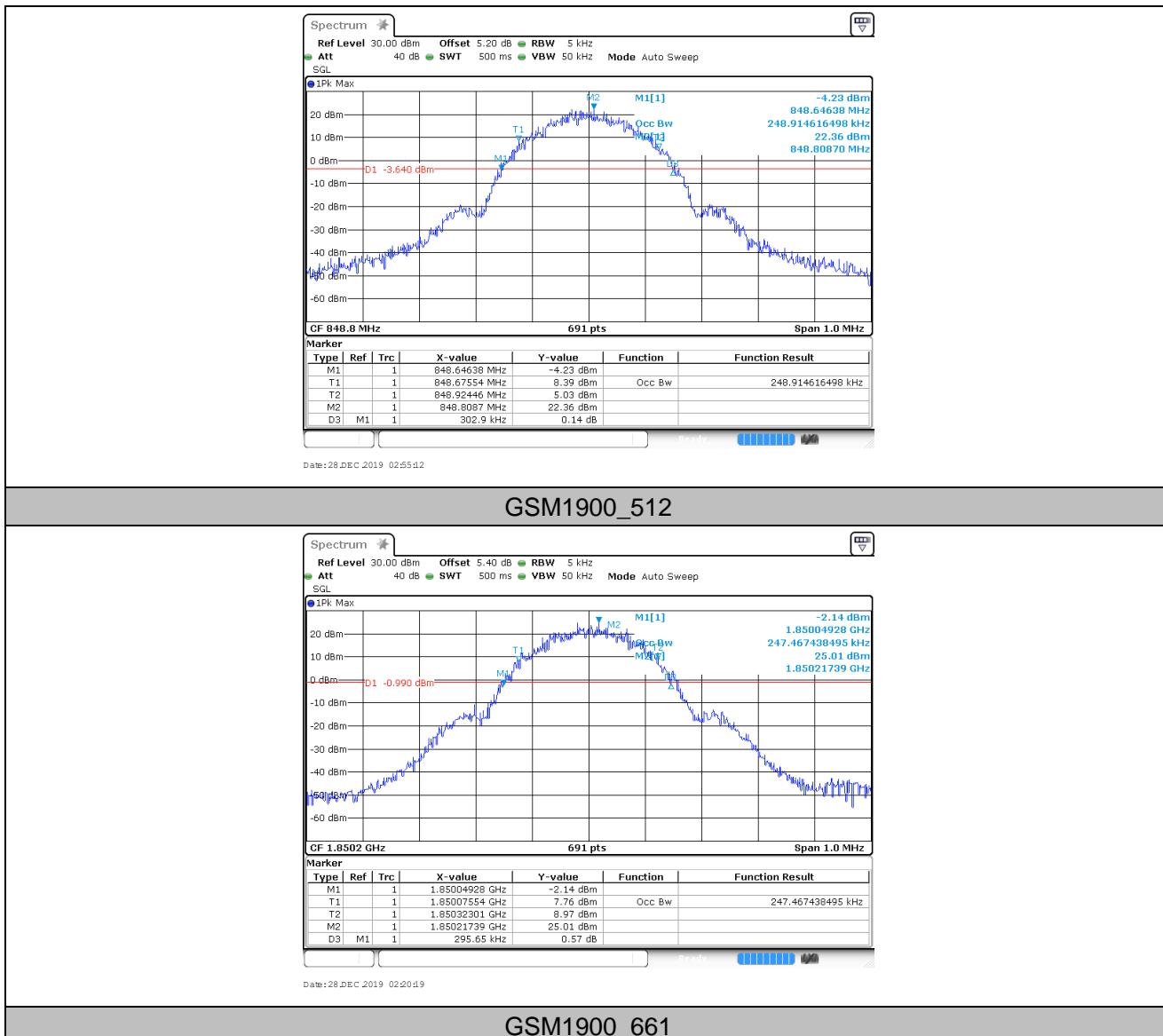


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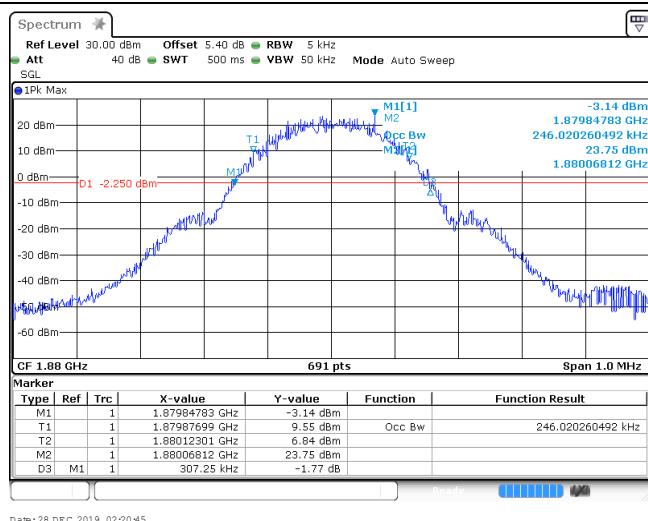


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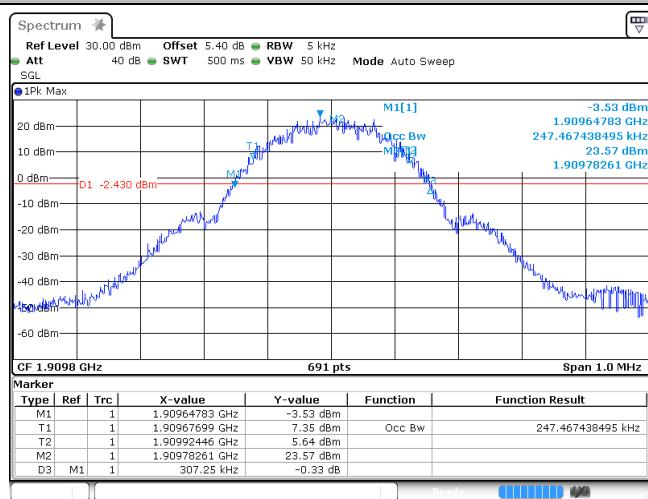
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GSM1900 810



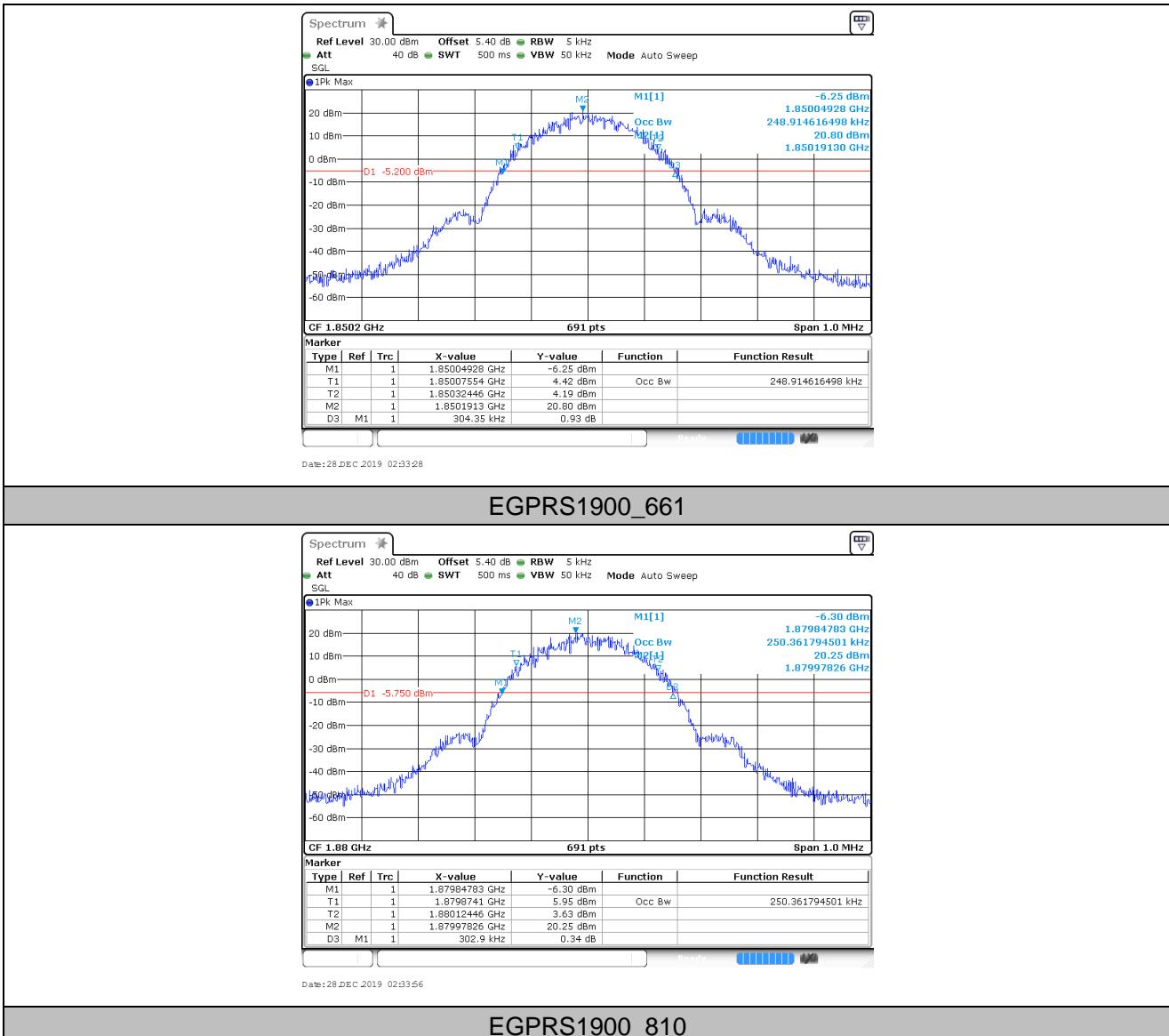
EGPRS1900 512

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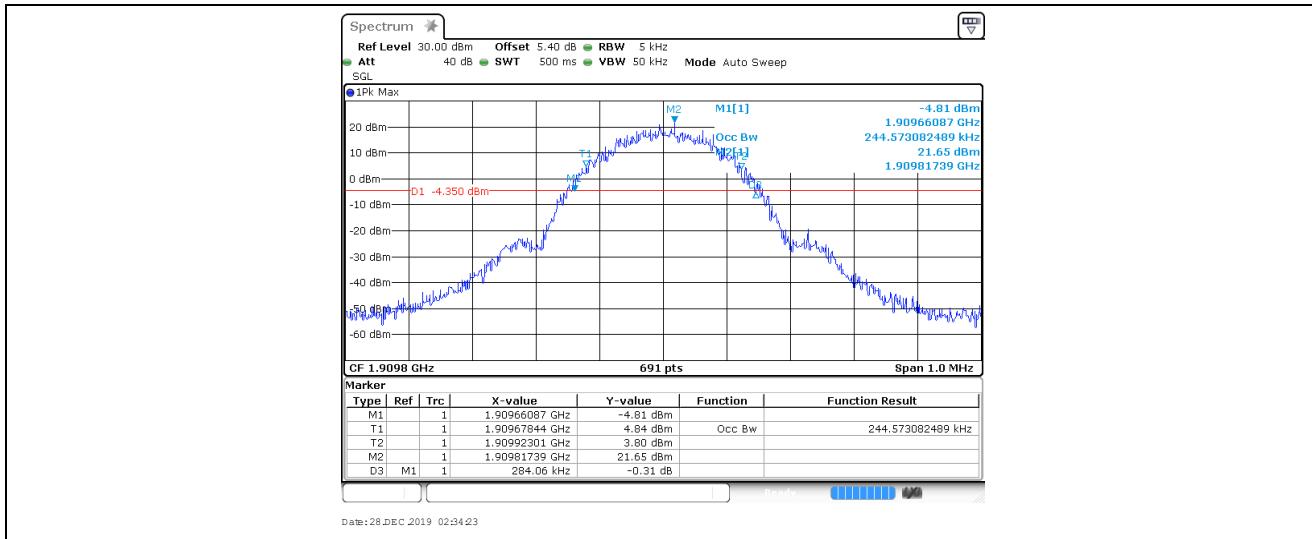


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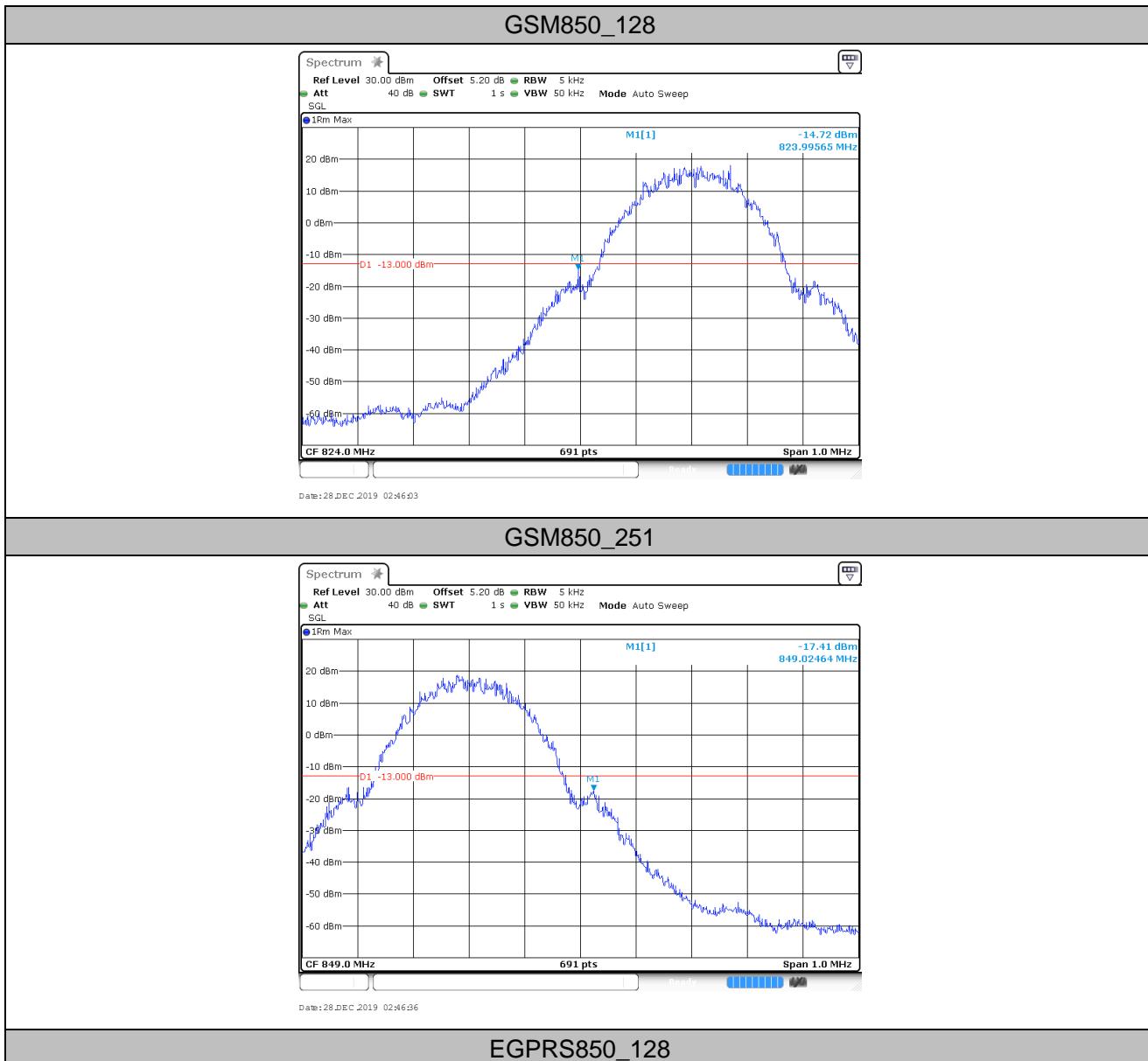


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5. Band Edge Compliance

5.1. Test Plots



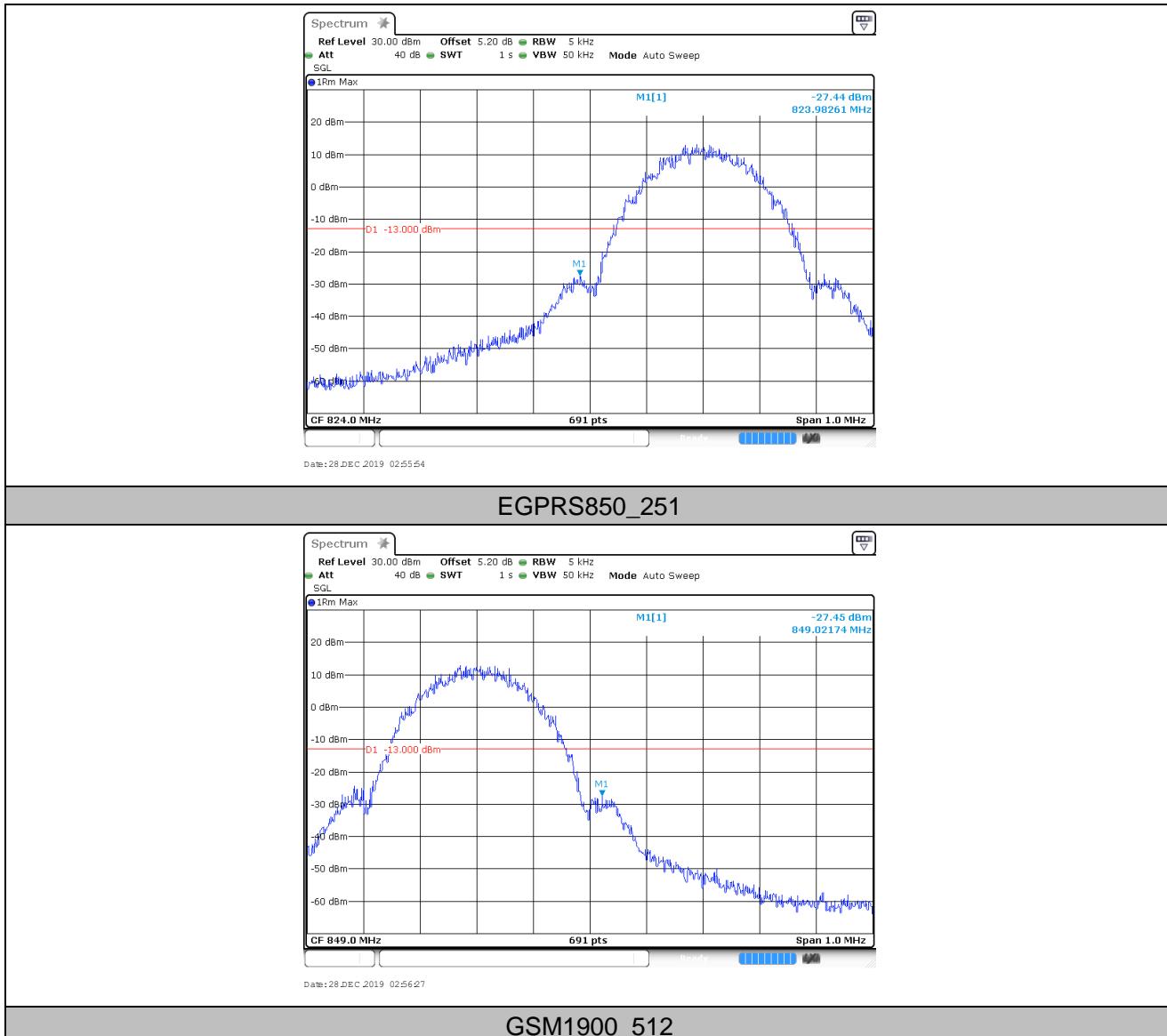
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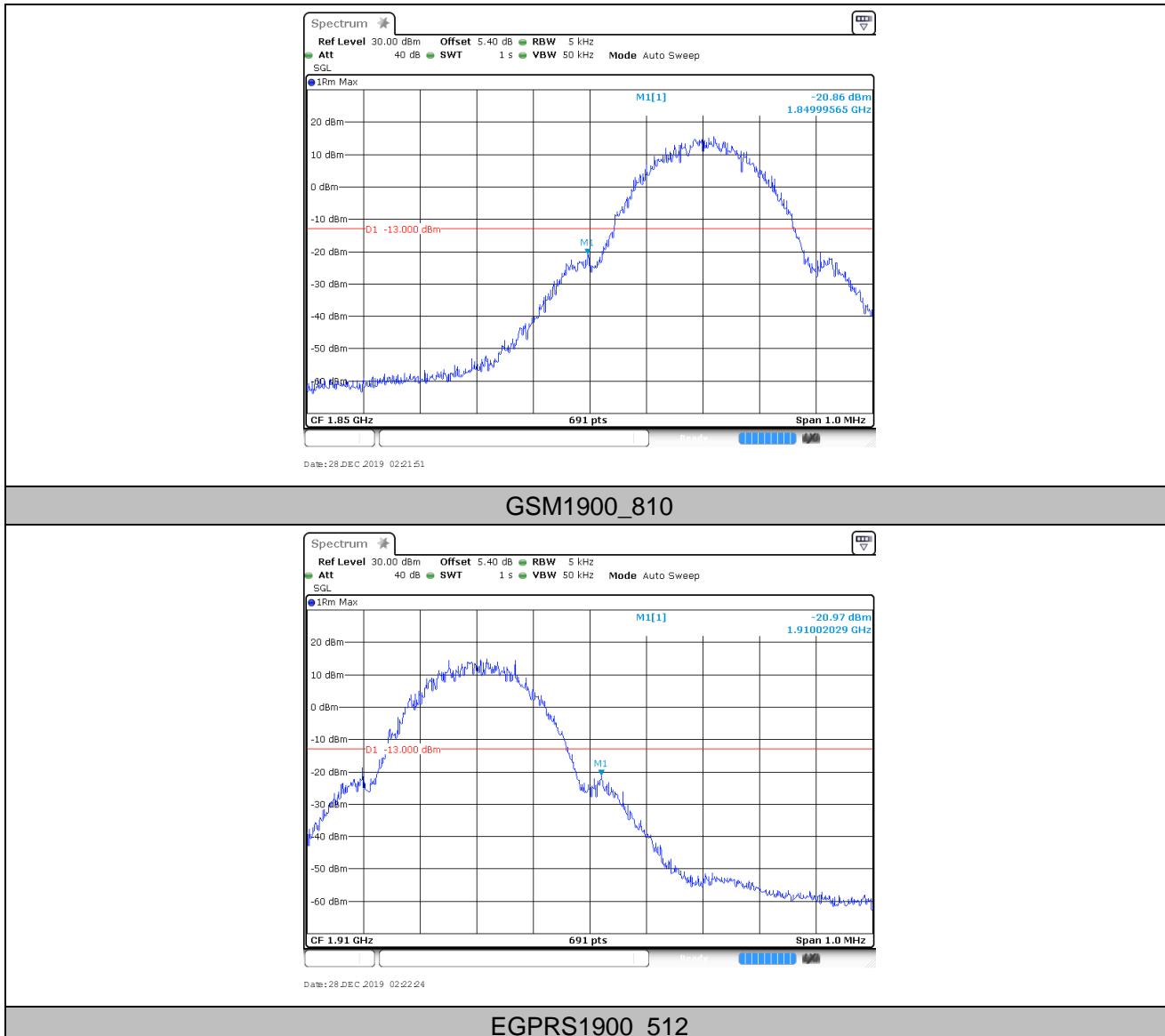
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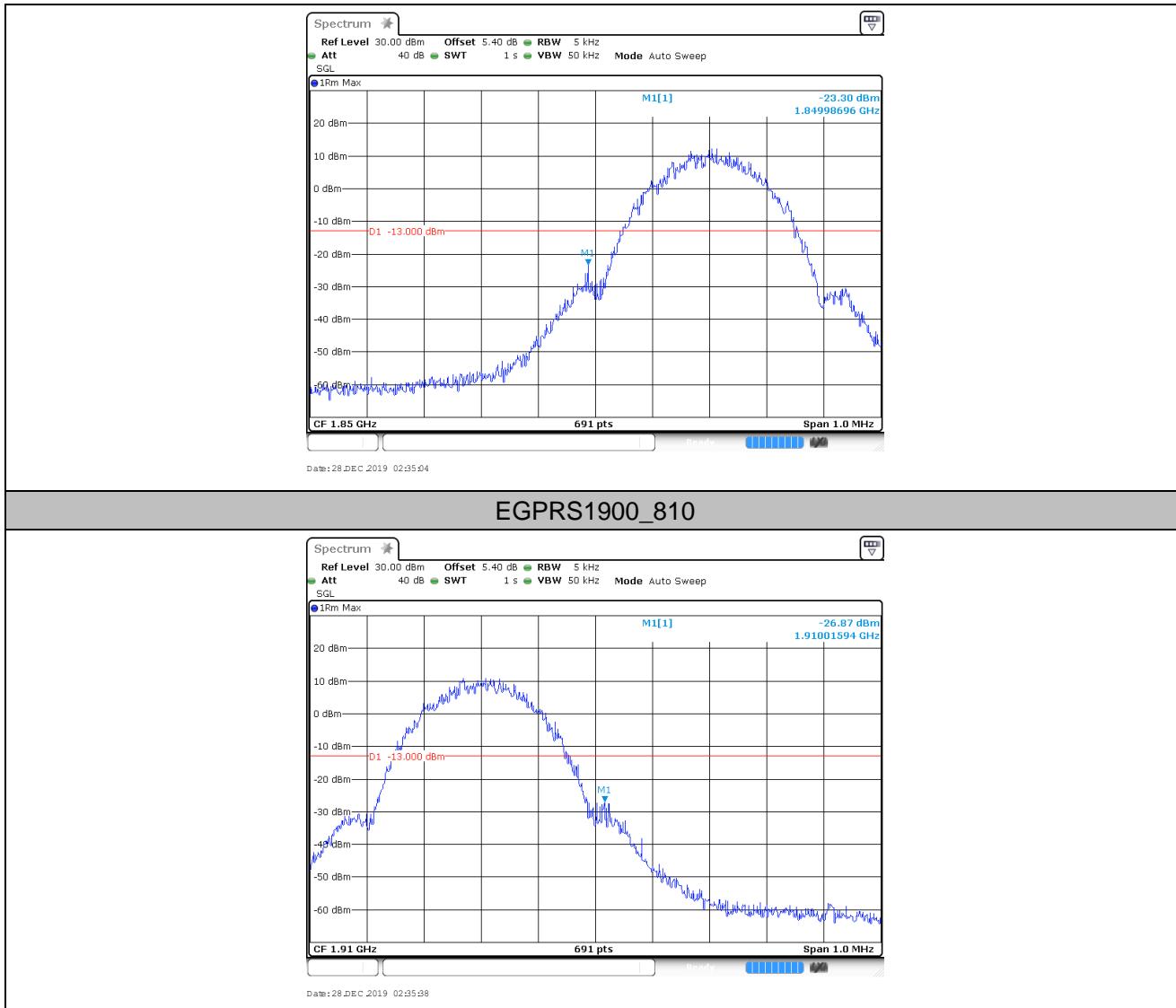


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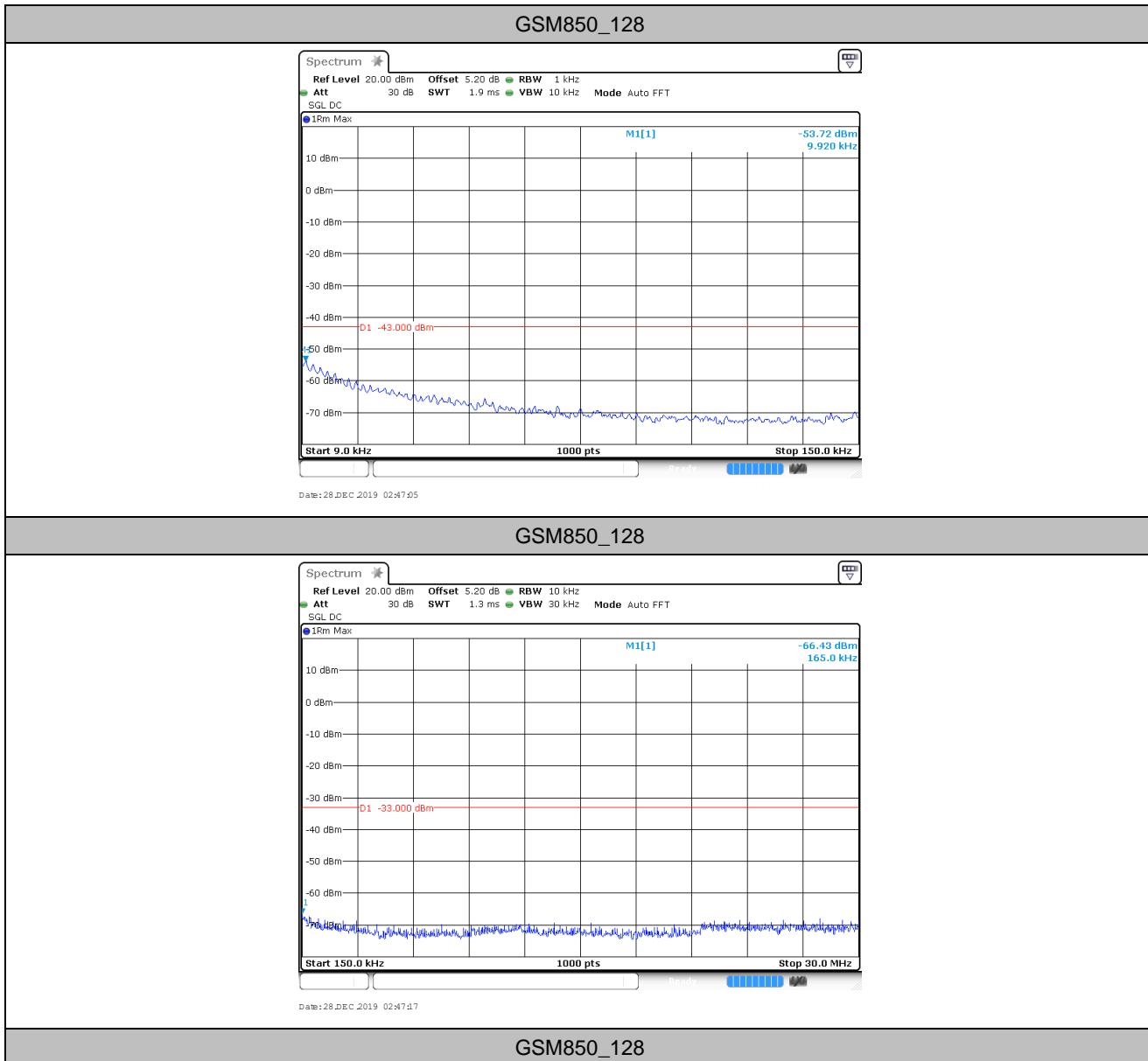
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6. Spurious Emission at Antenna Terminal

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

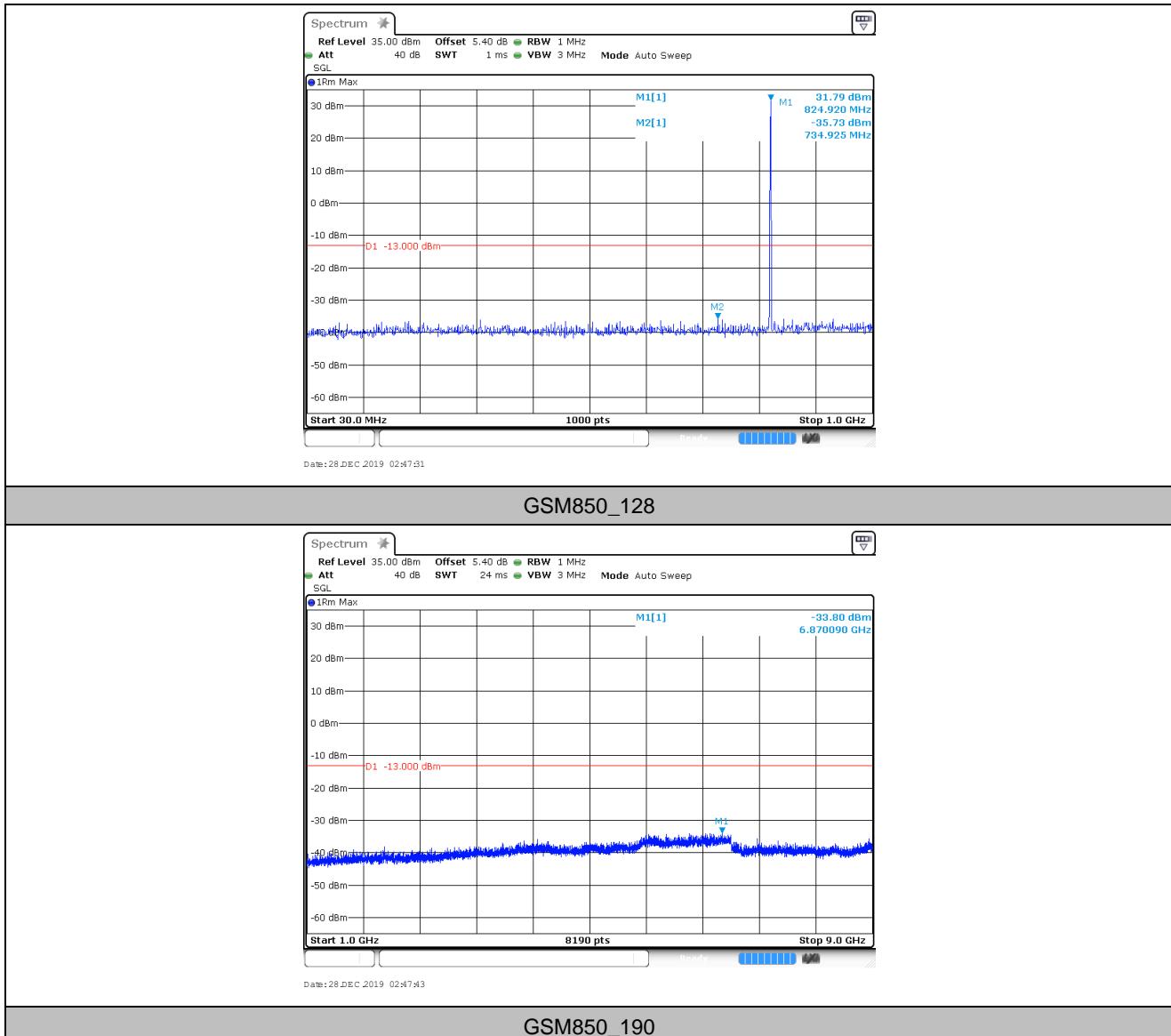


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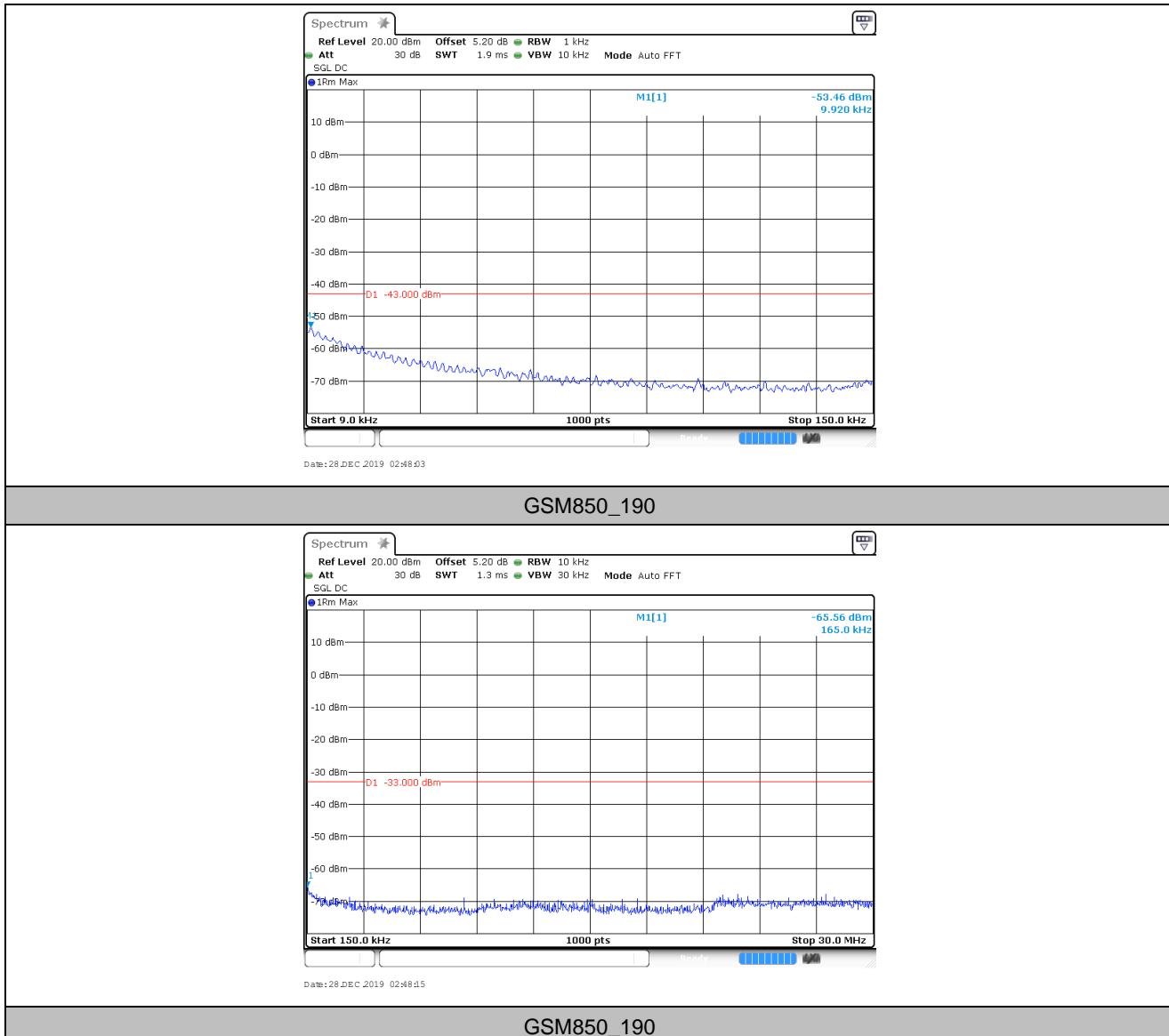


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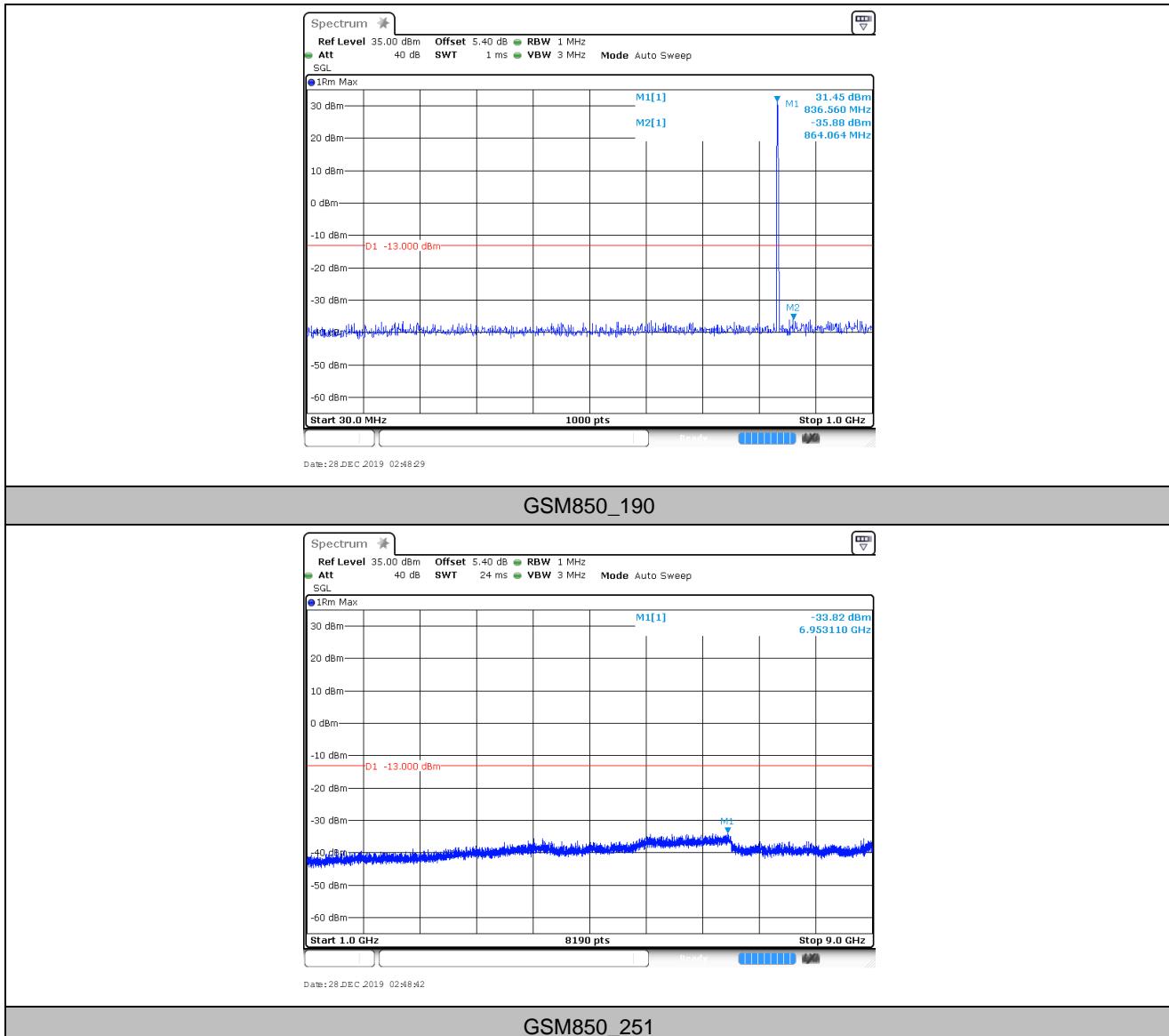
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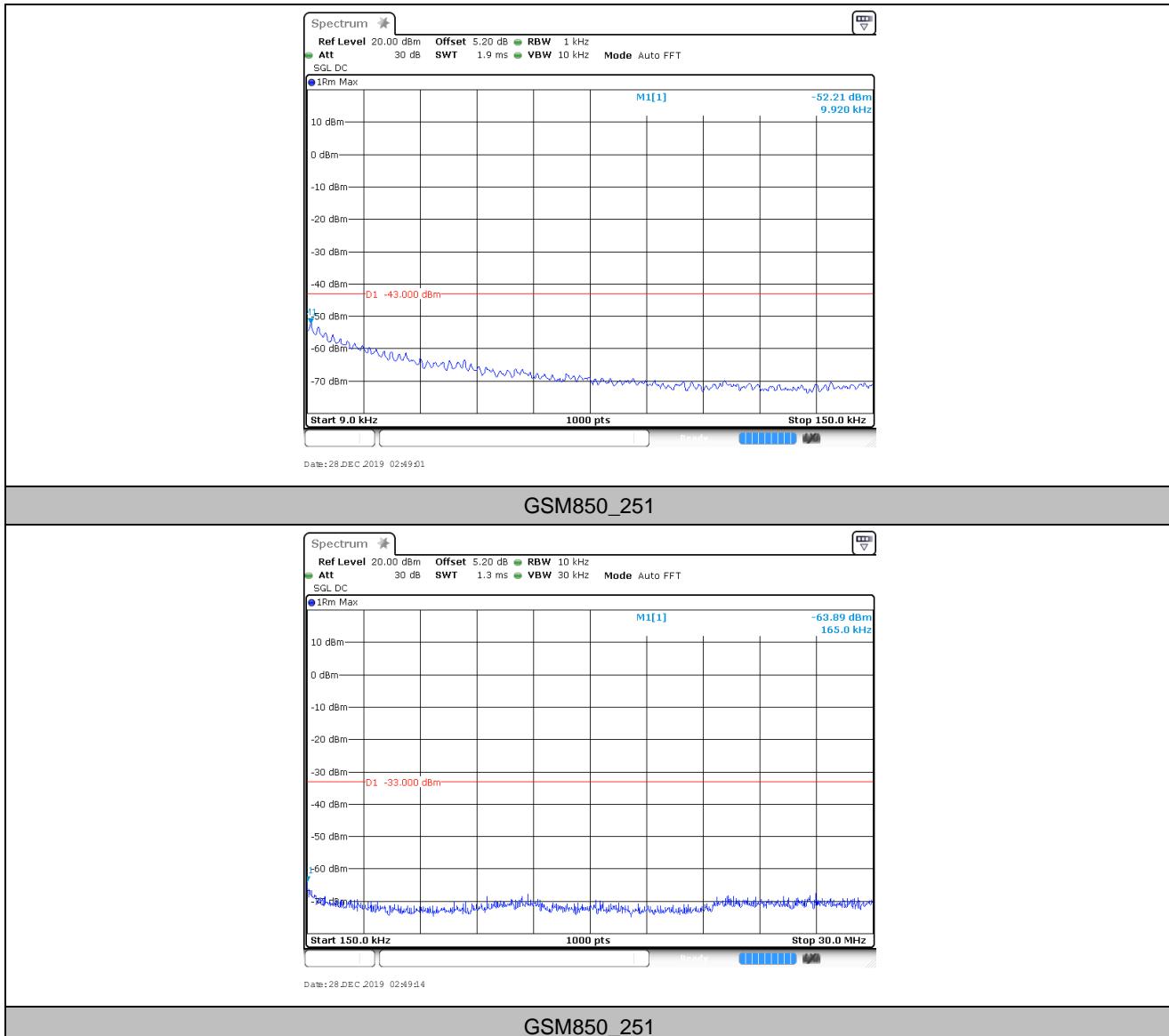
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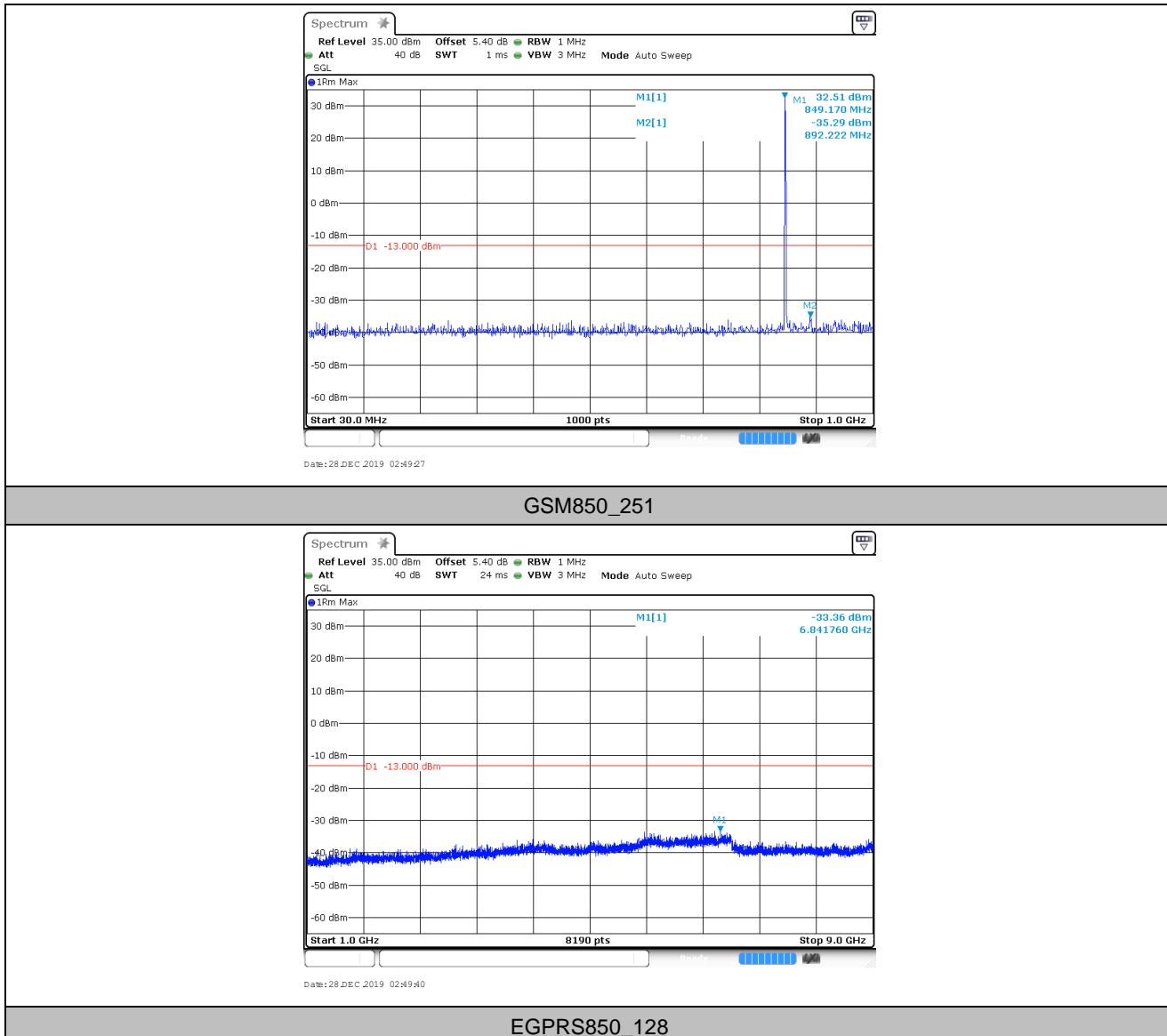
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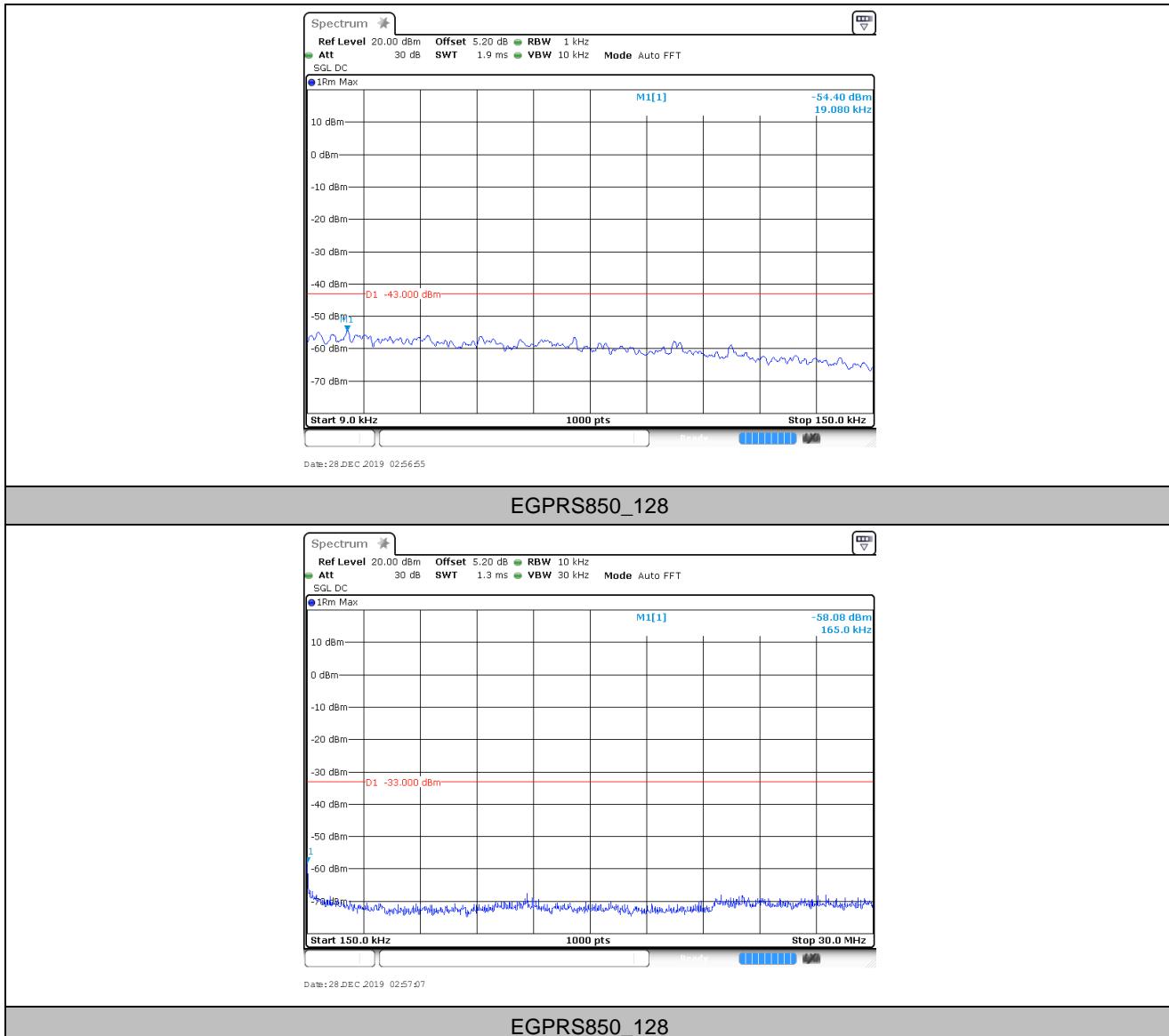


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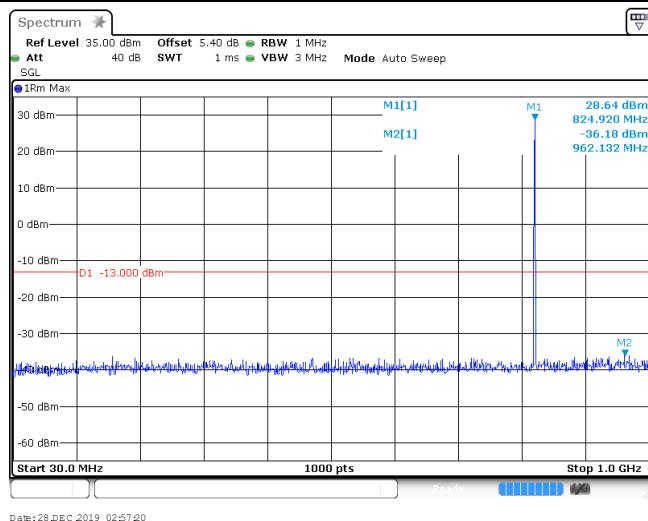
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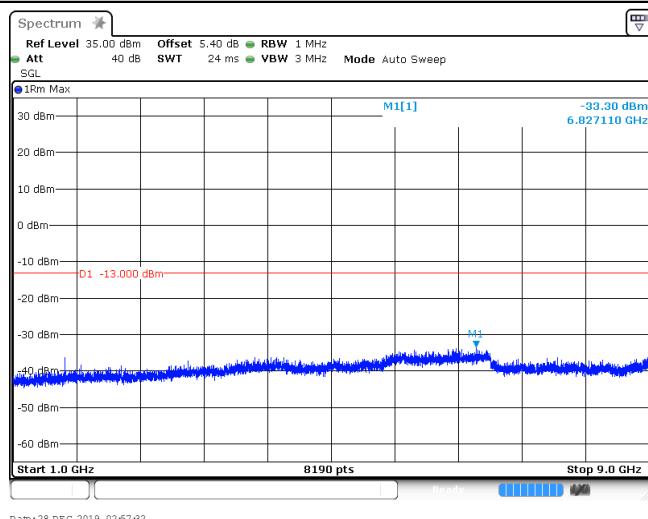


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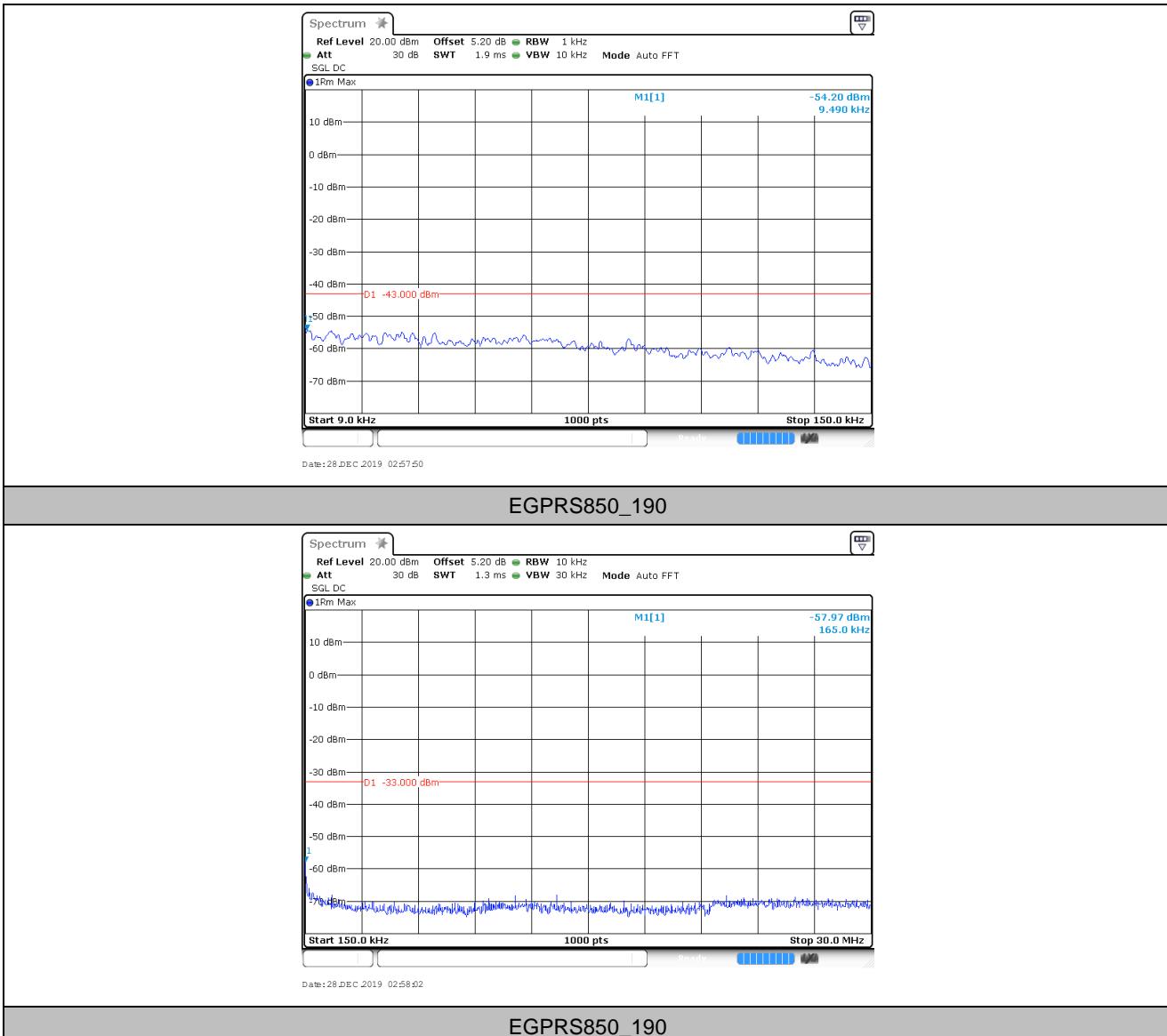
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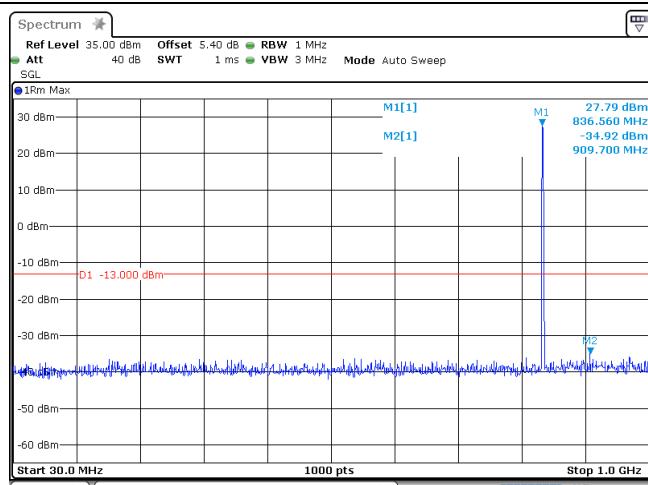
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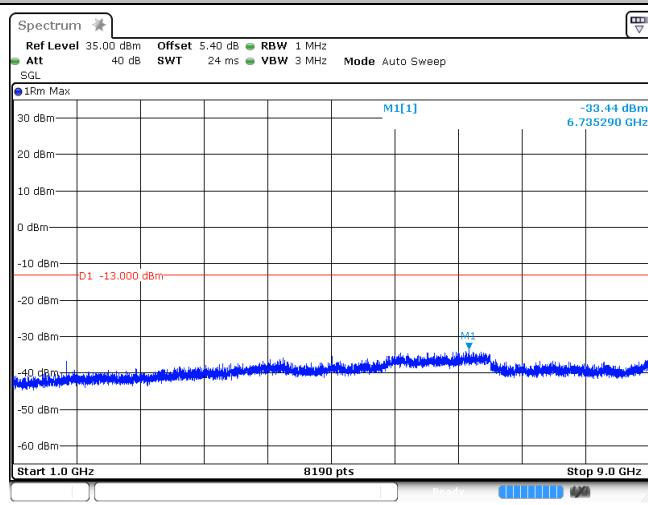


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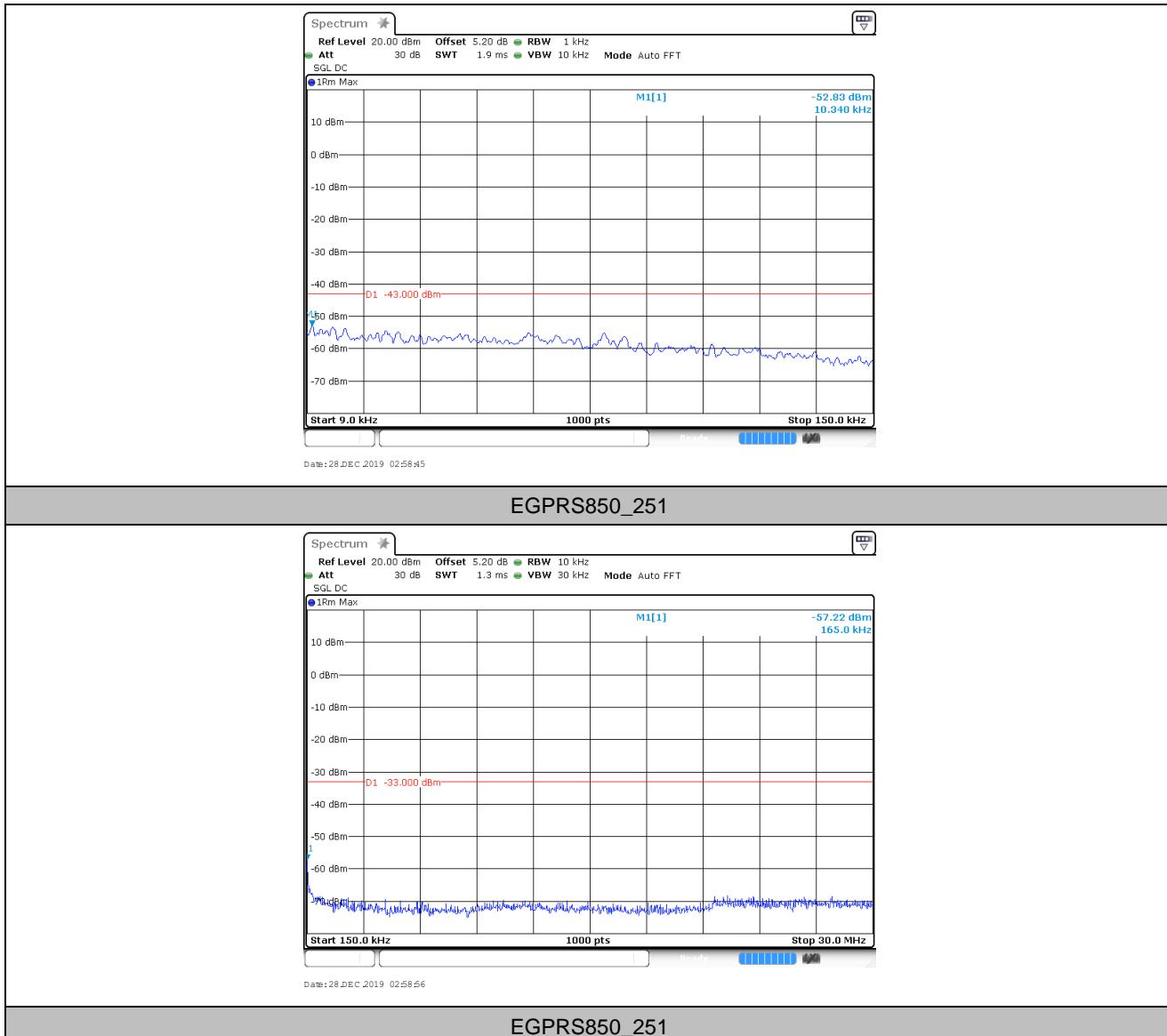
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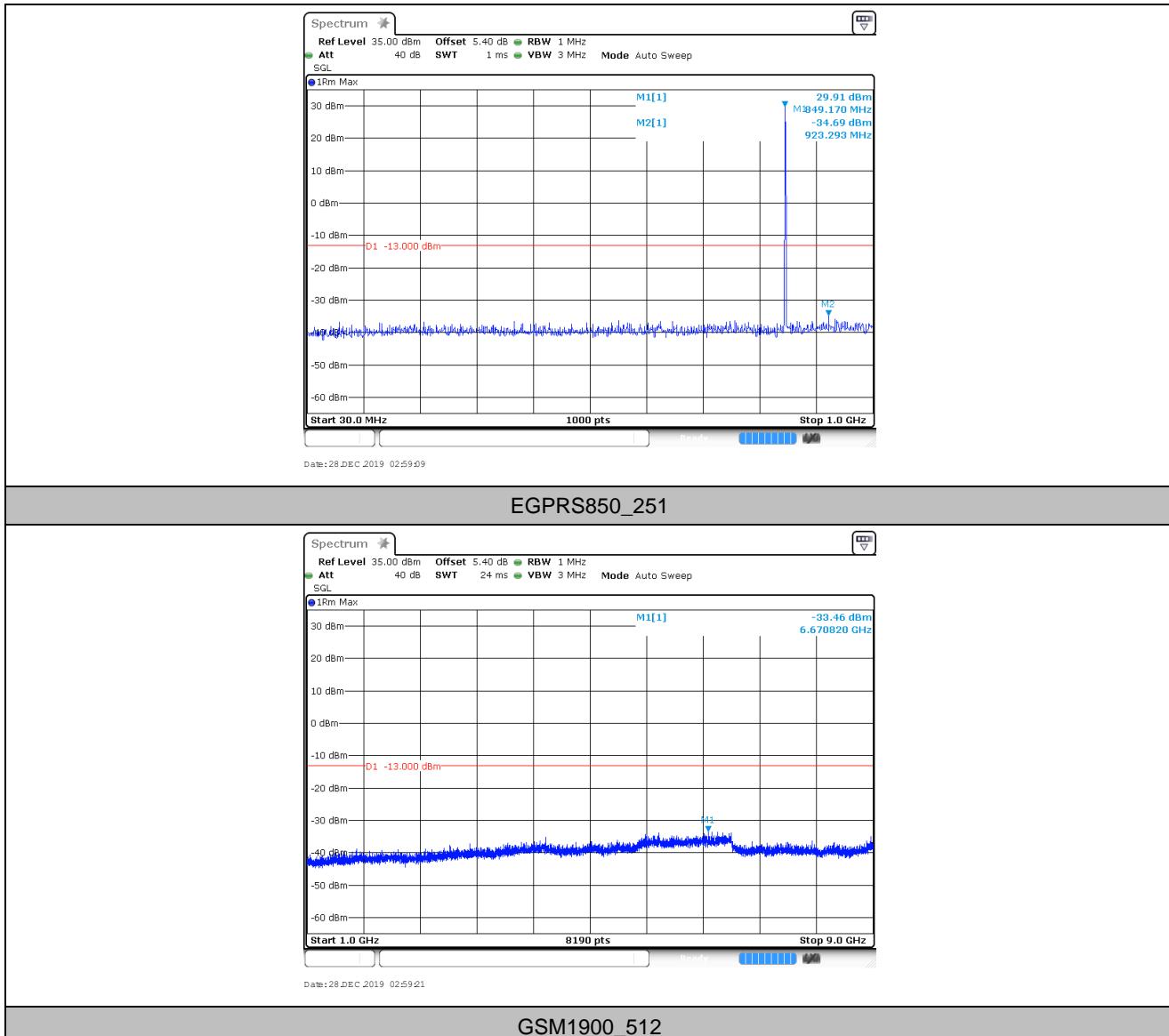
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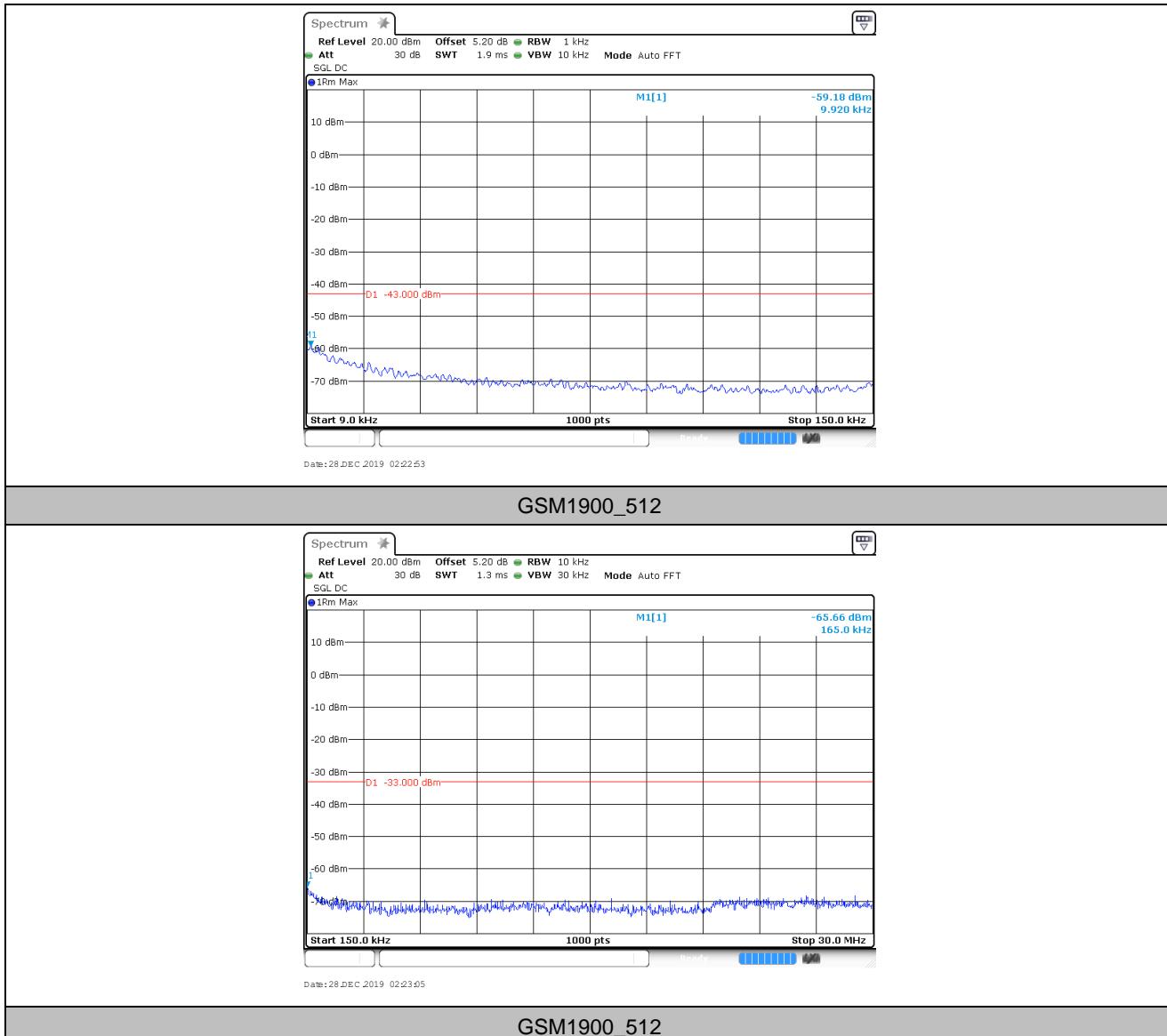


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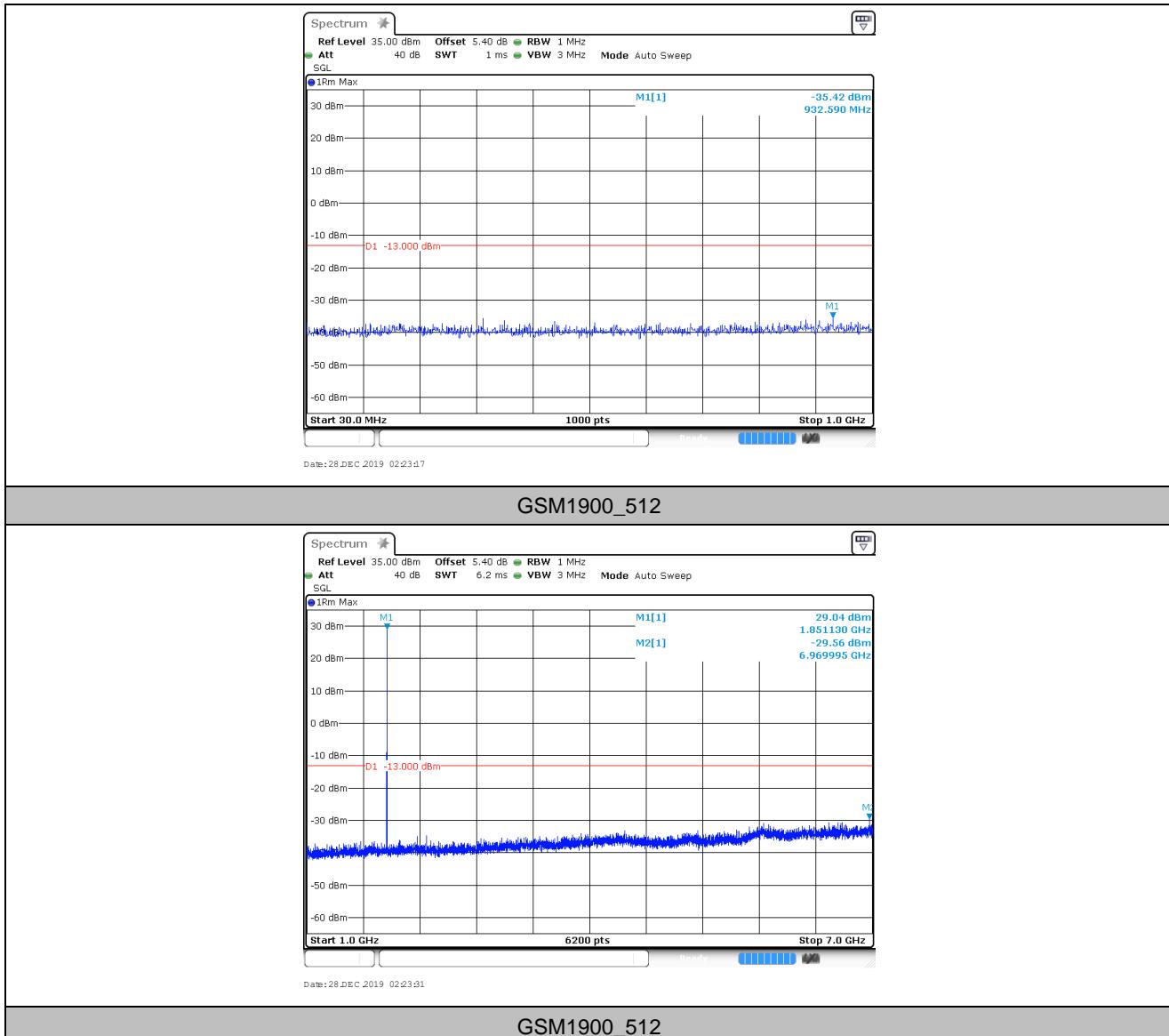
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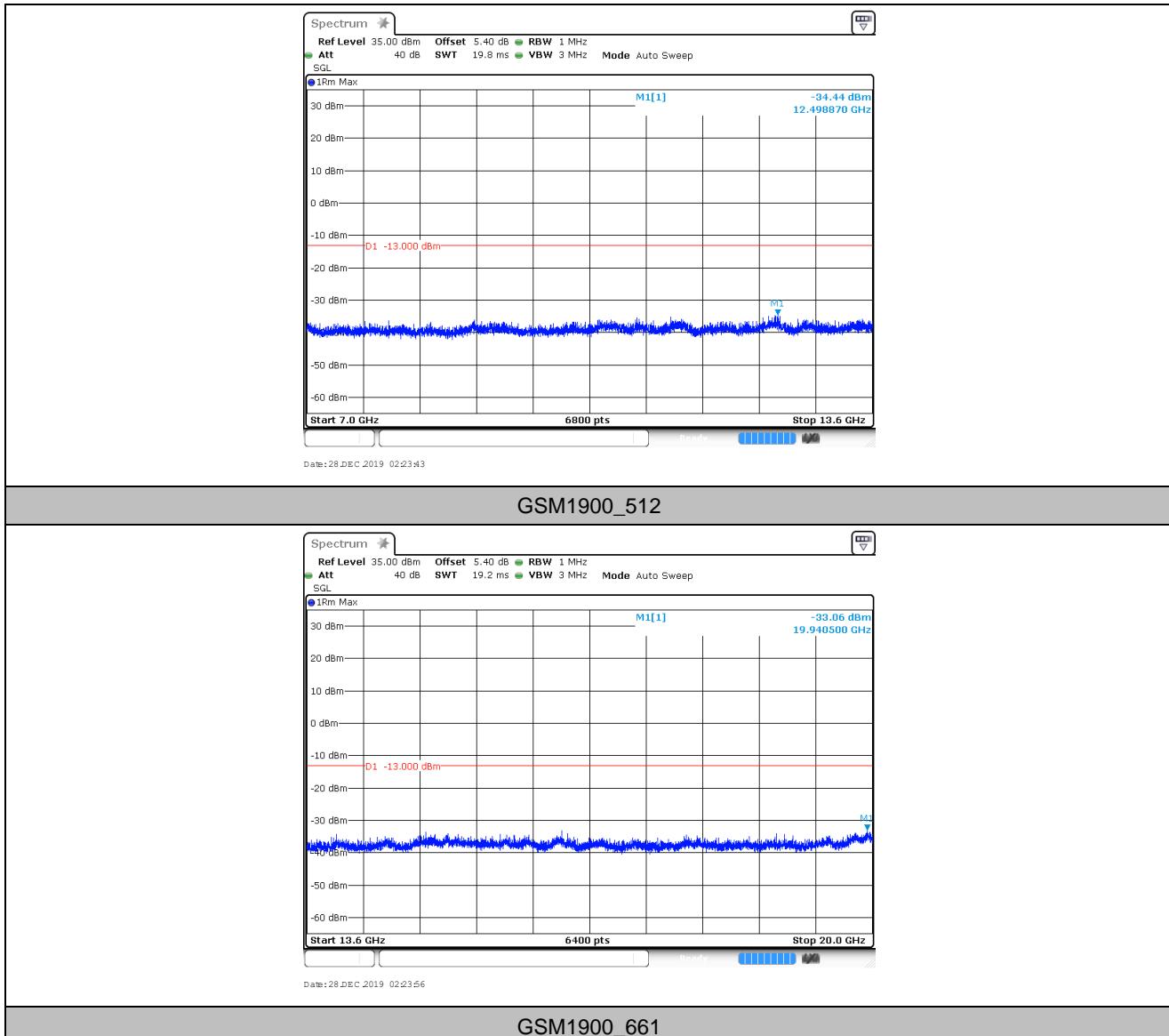


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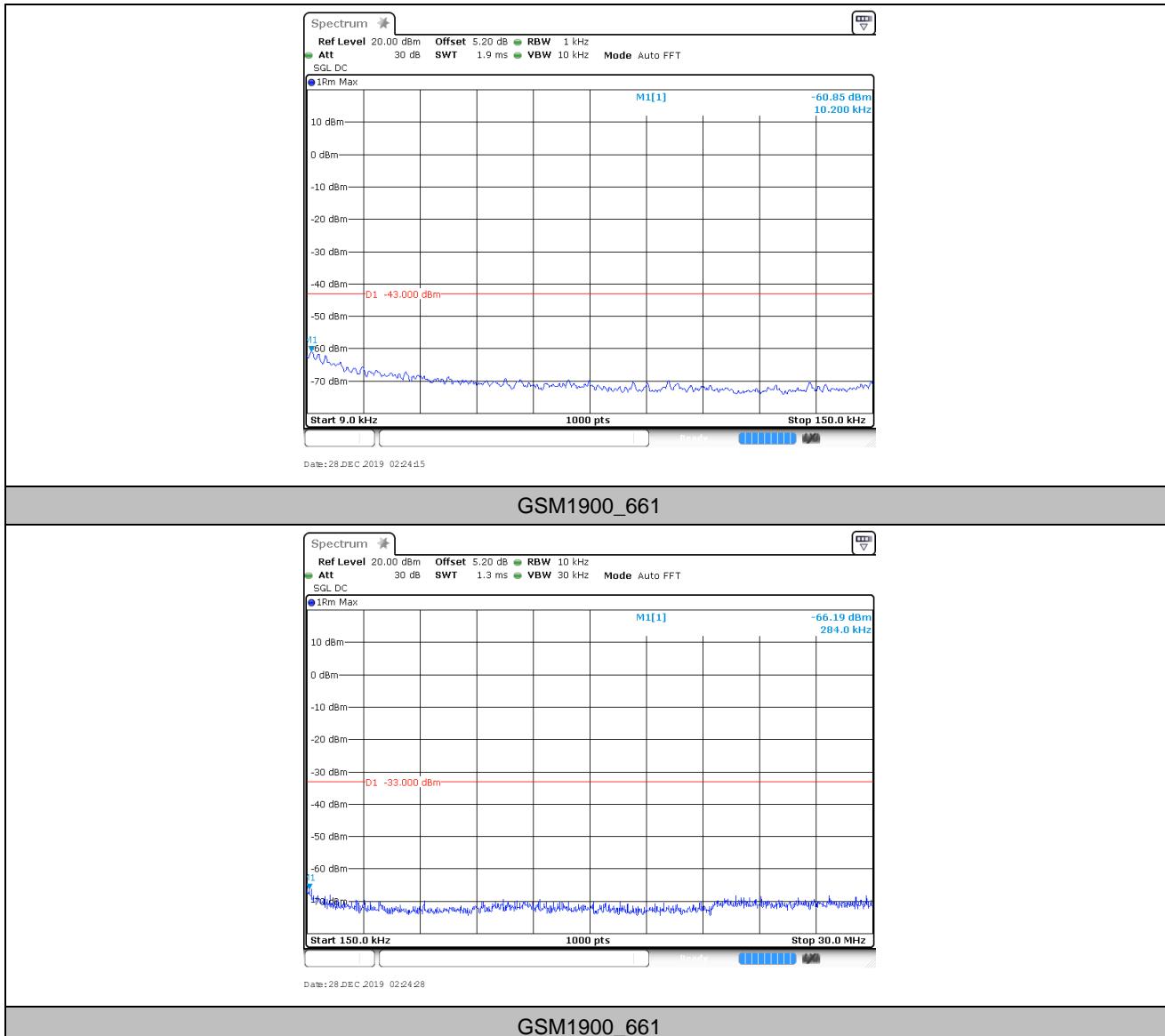


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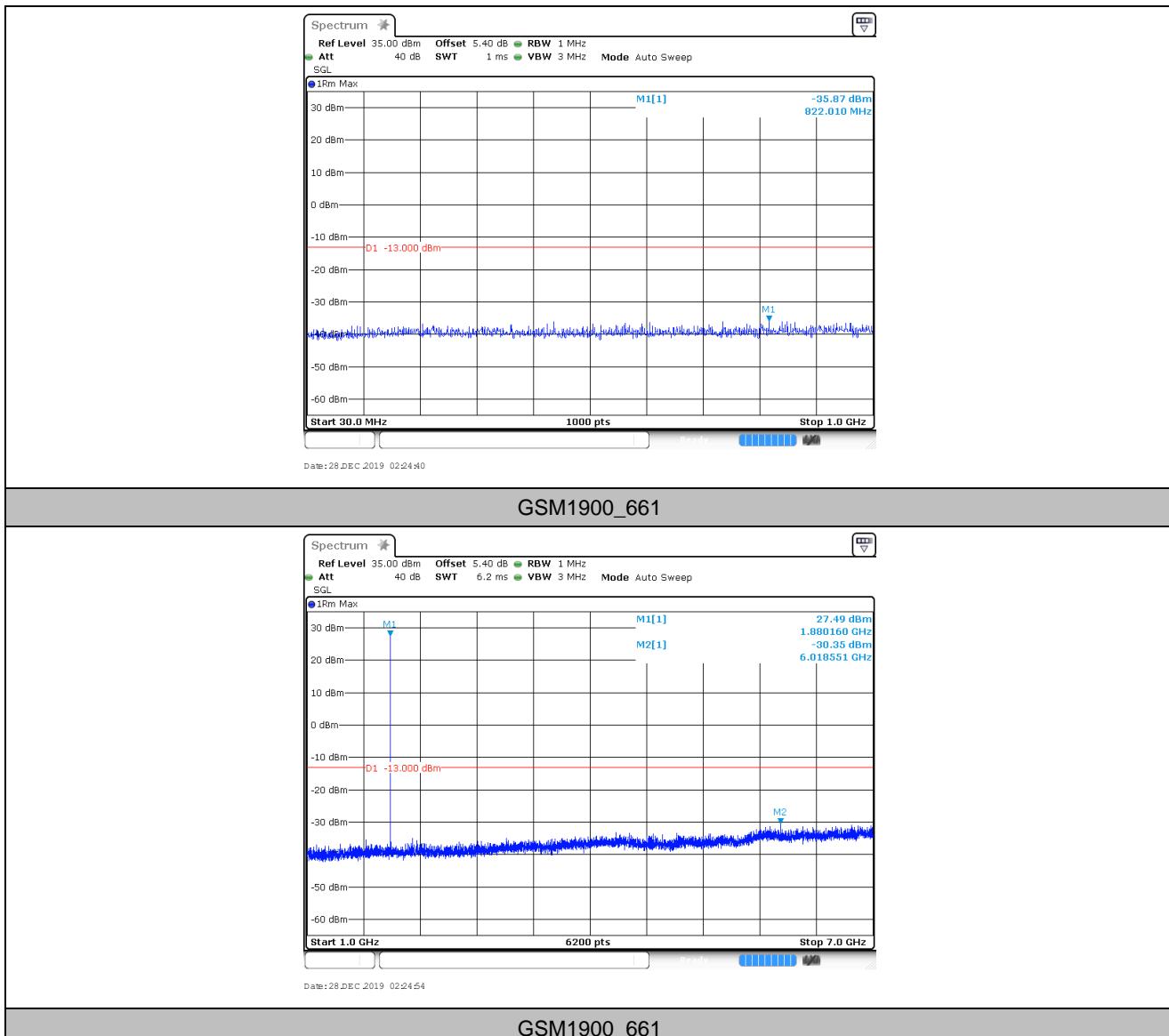
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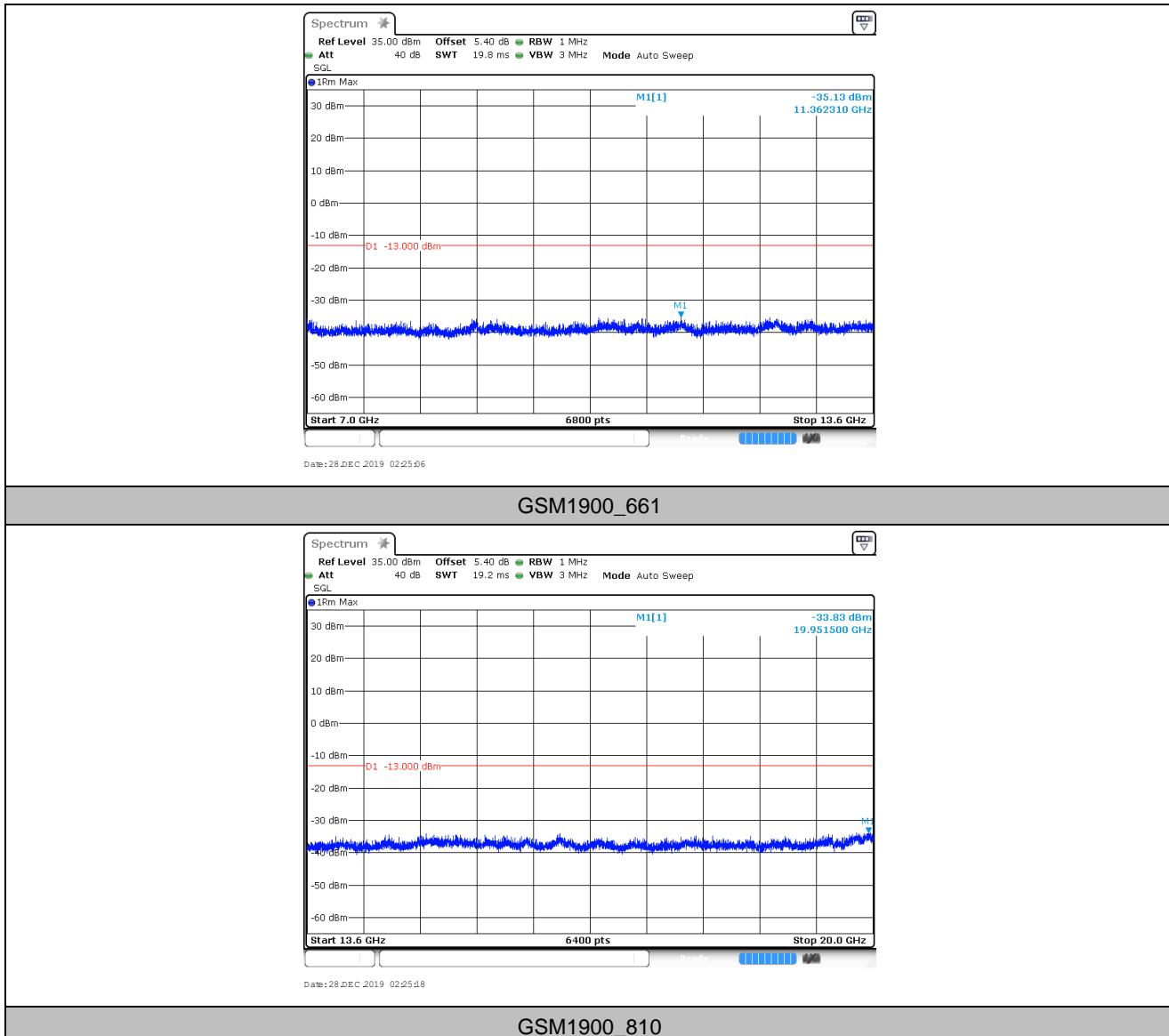
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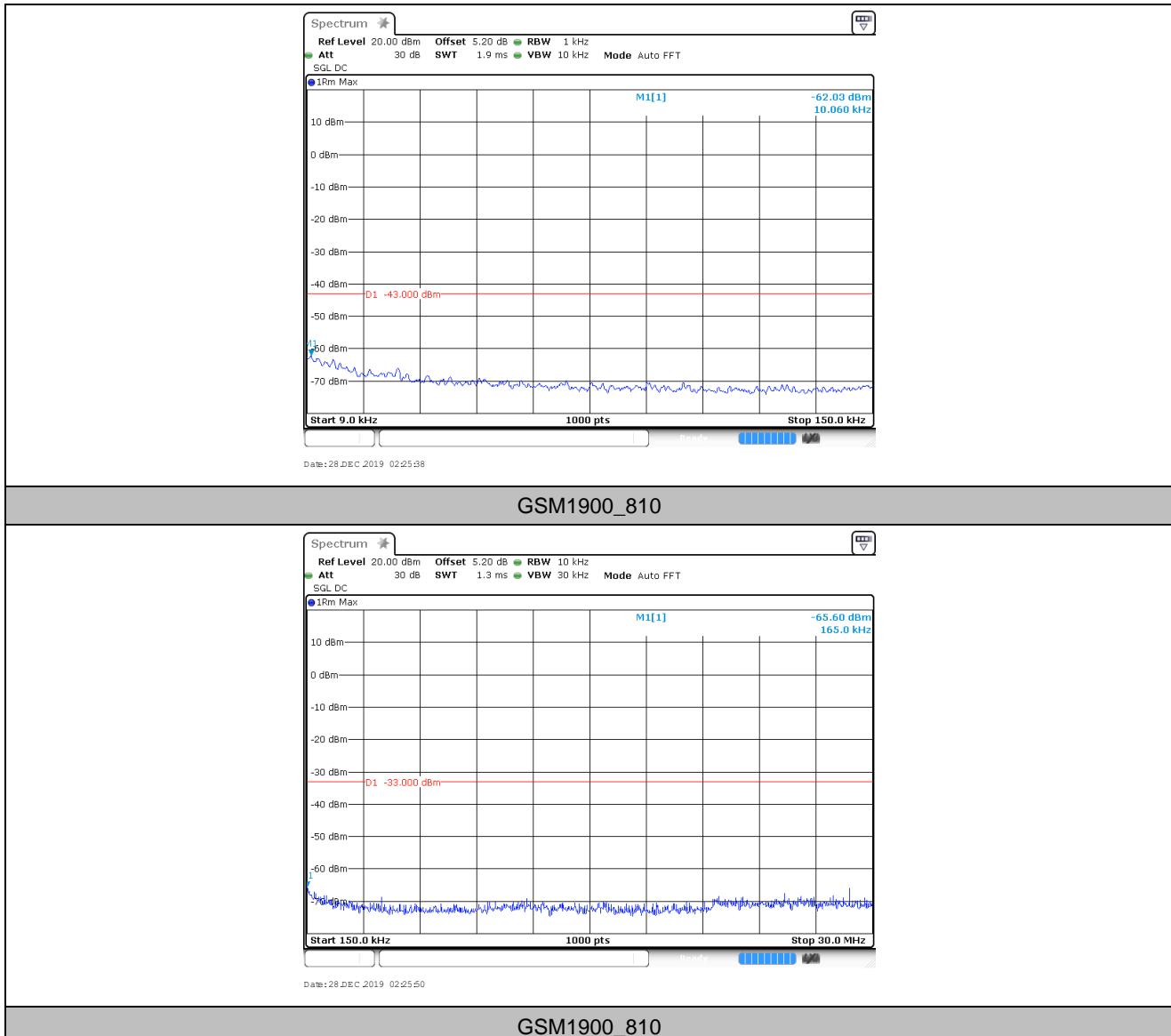
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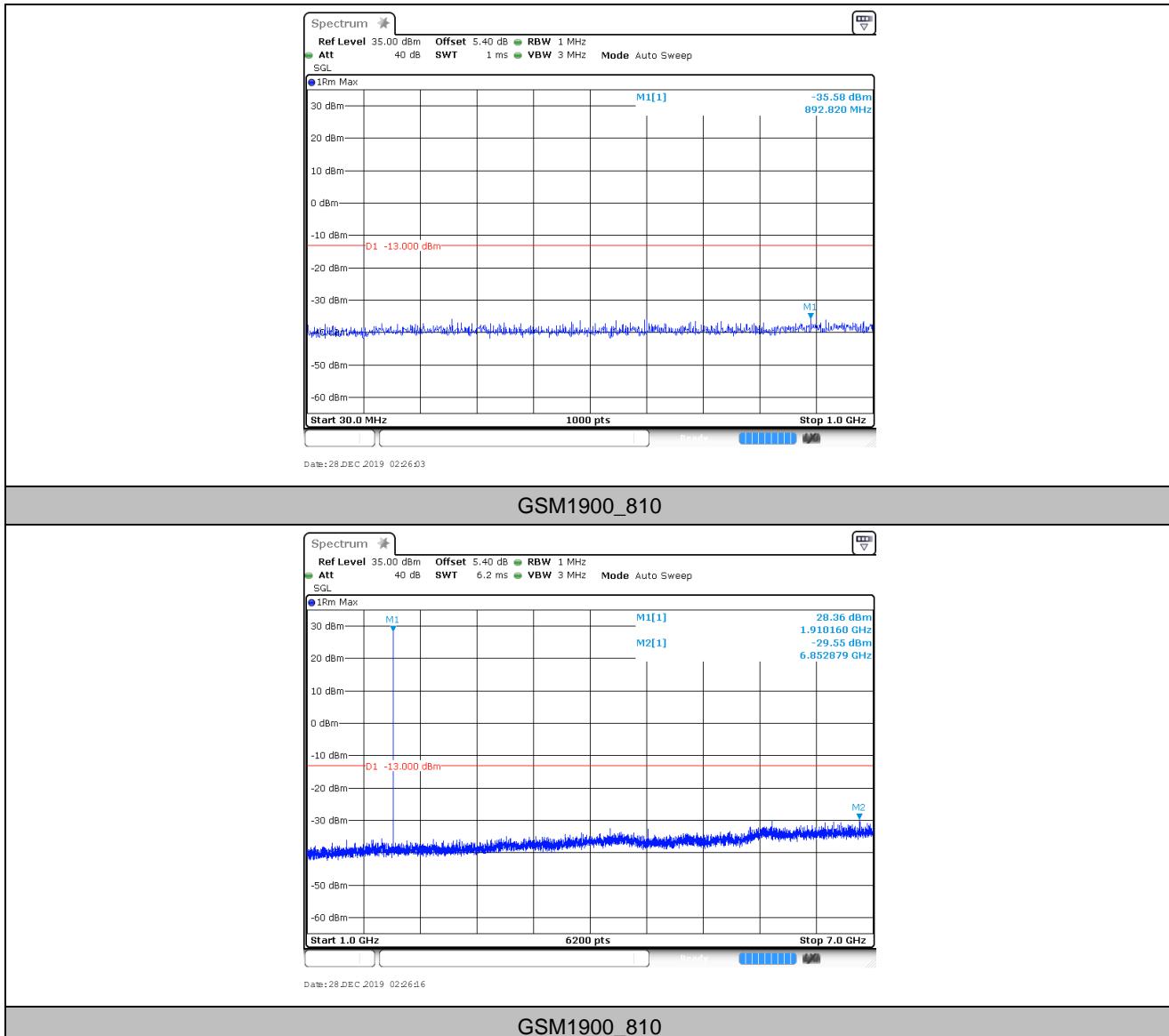


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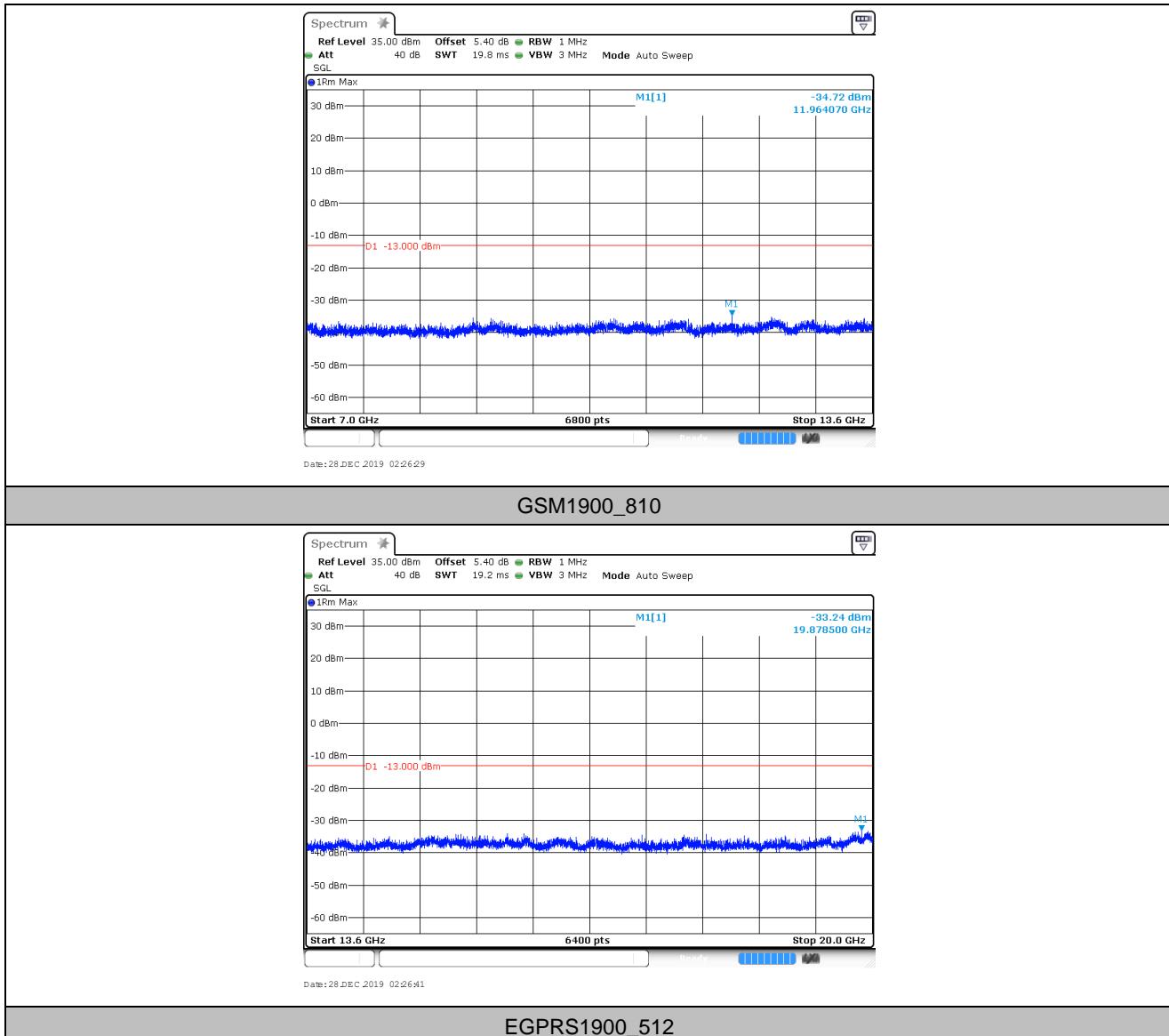
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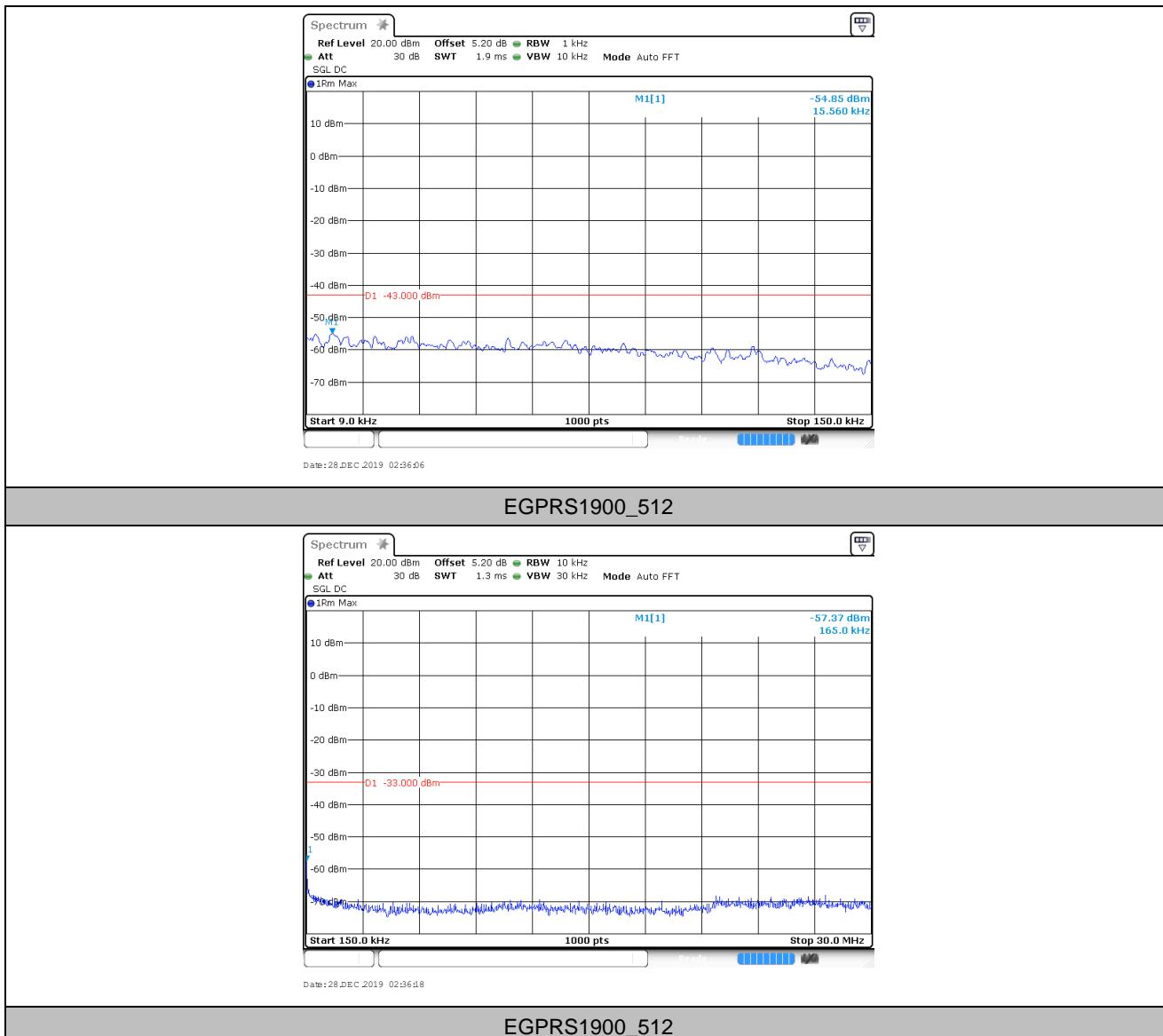
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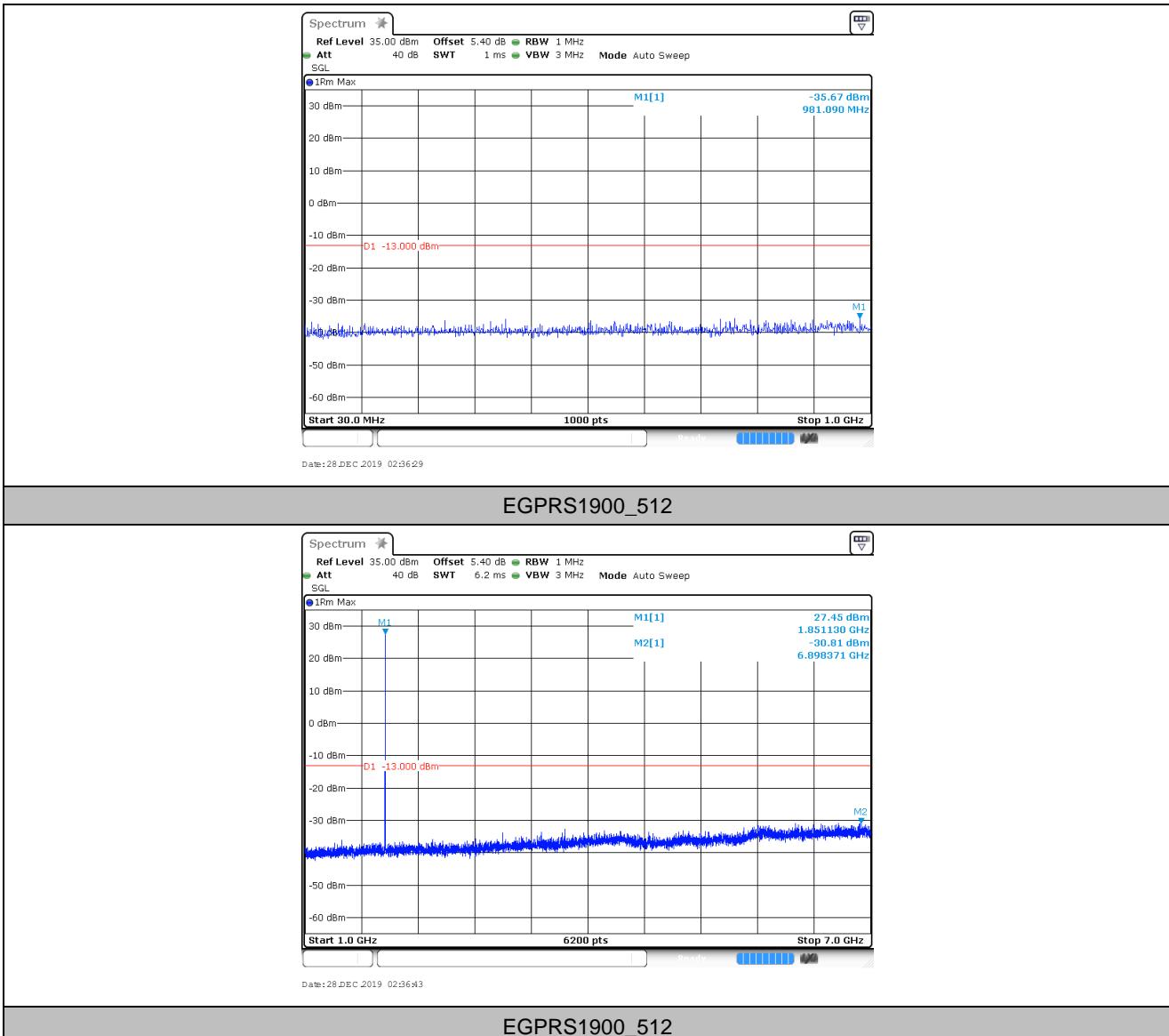


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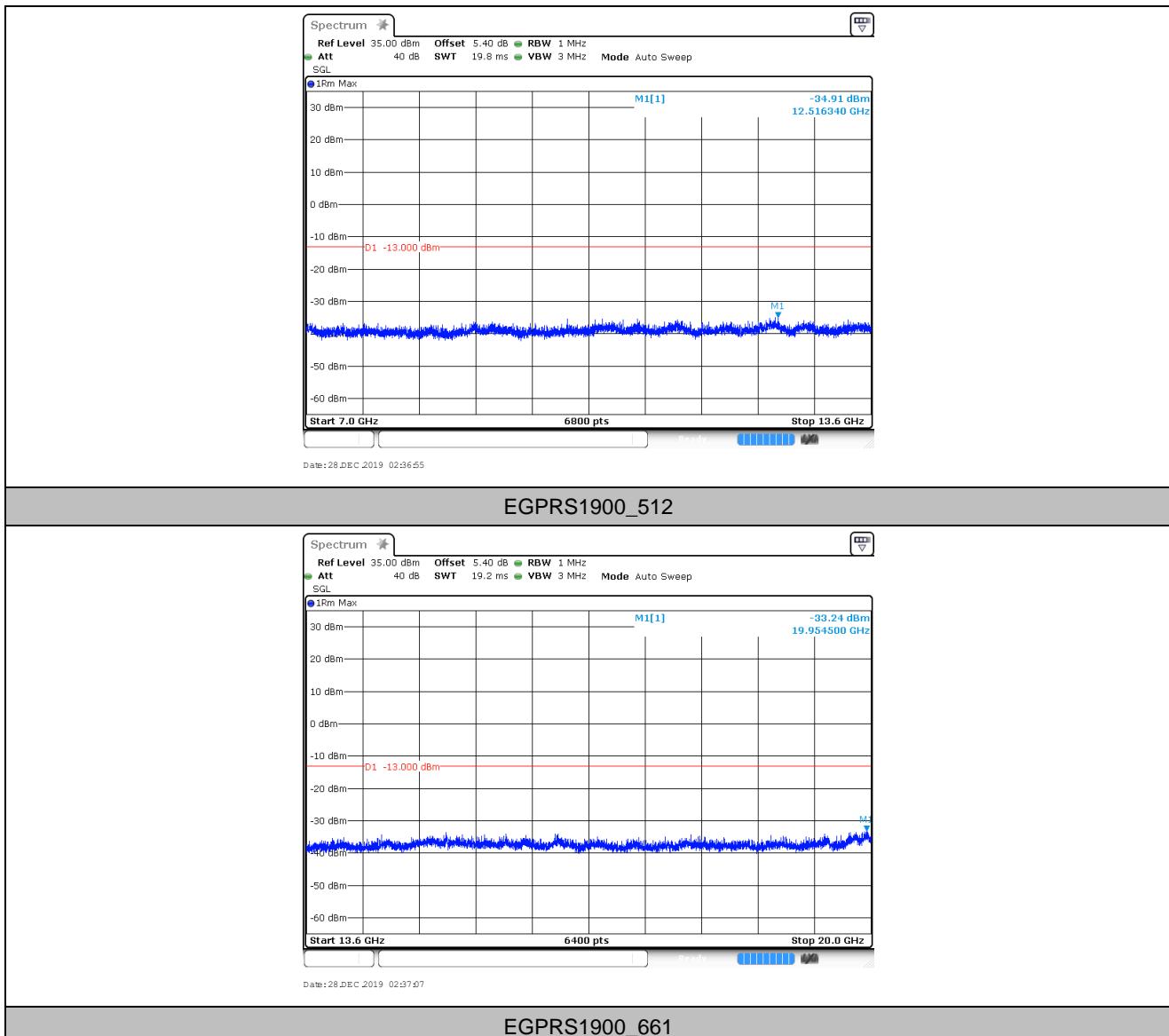
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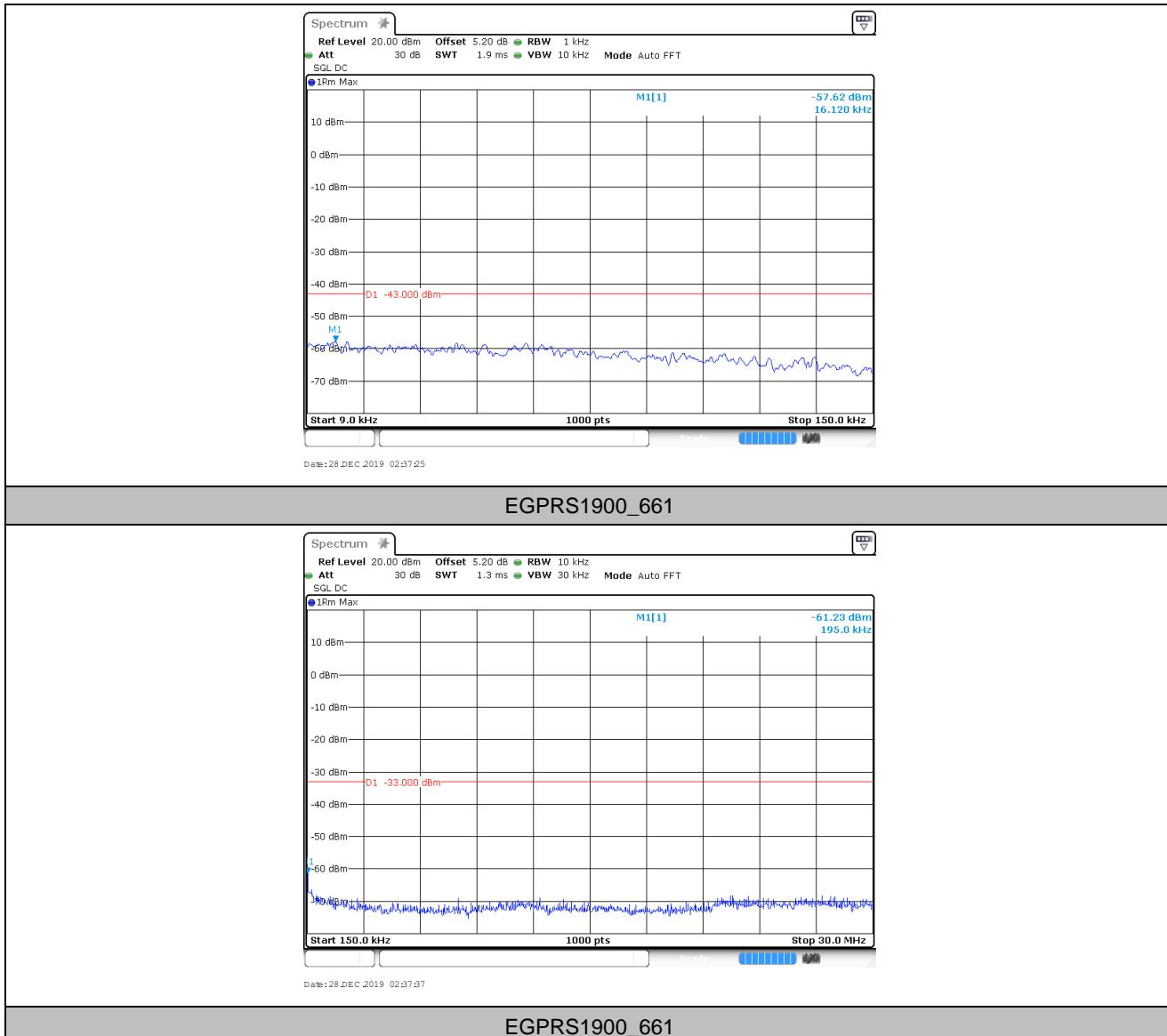
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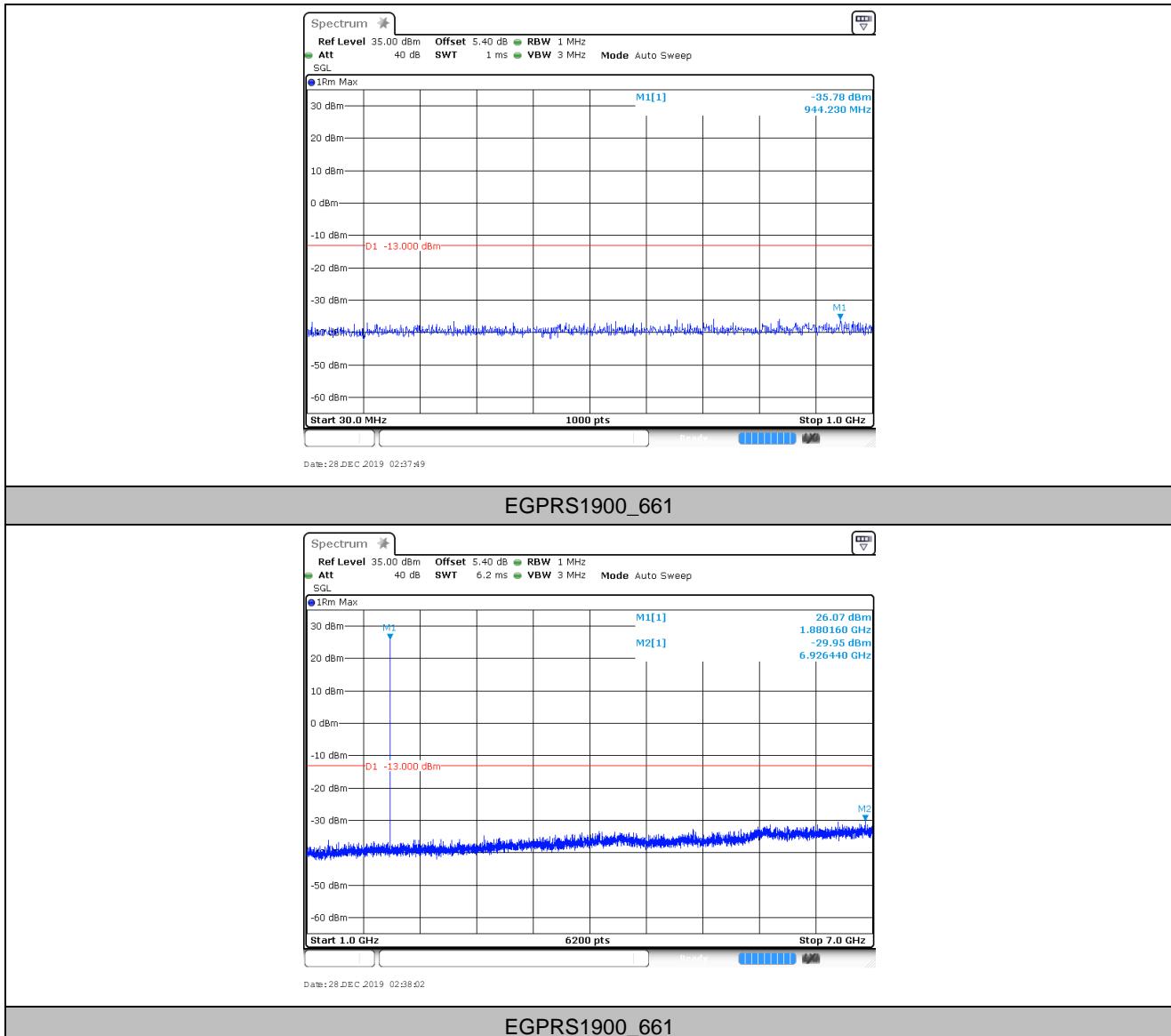
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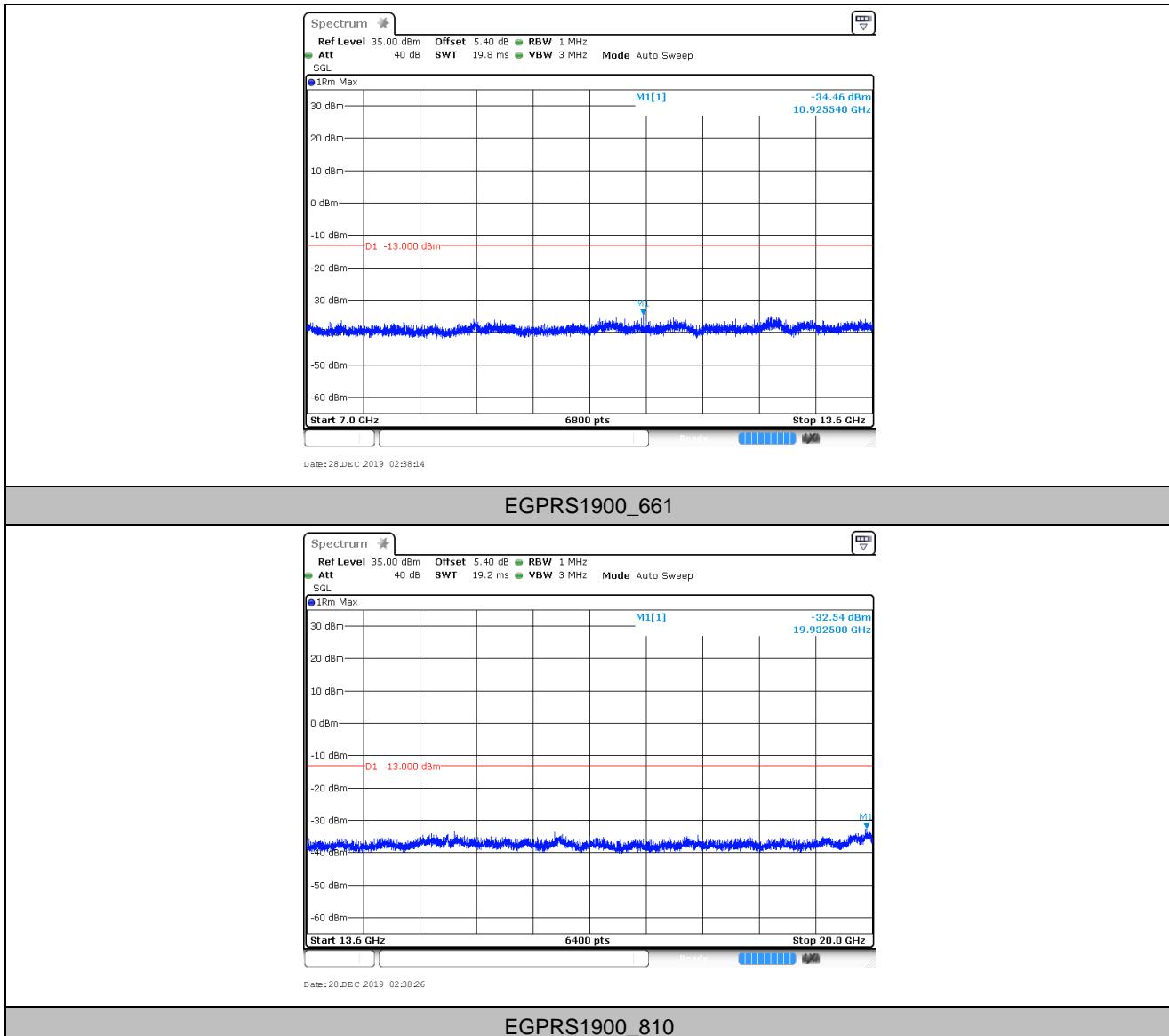
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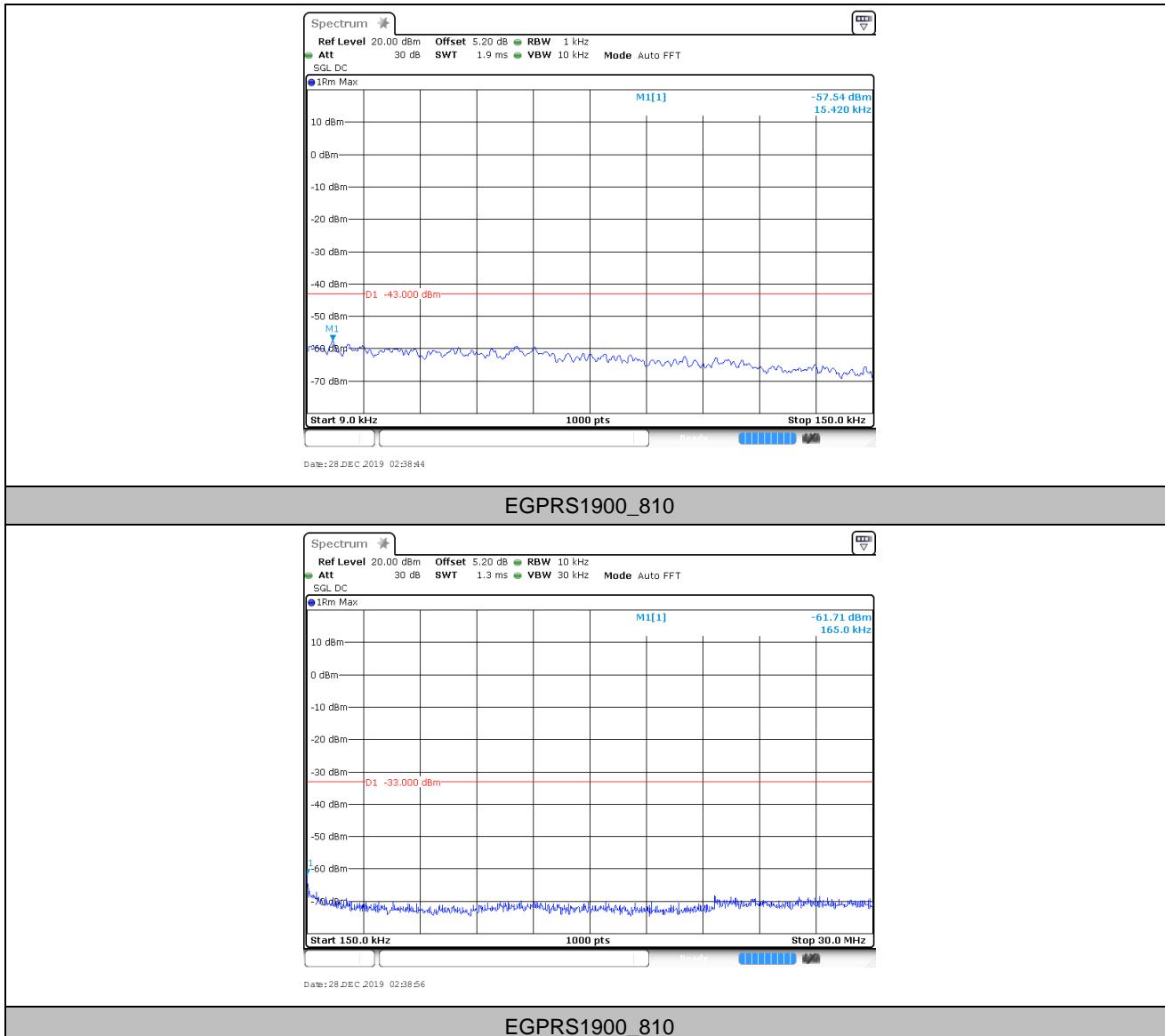
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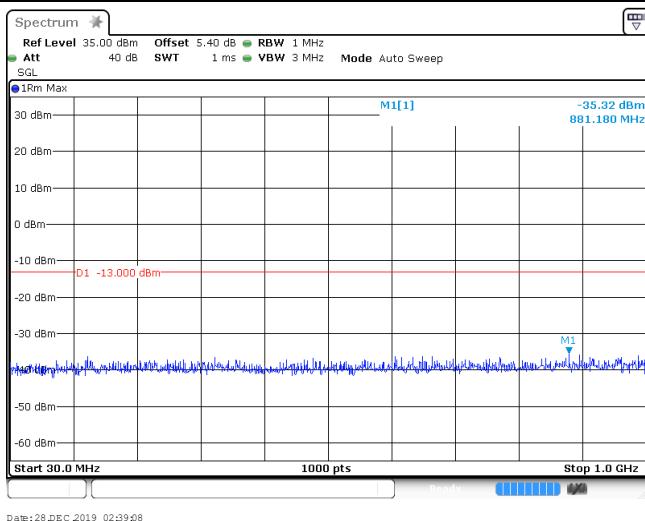
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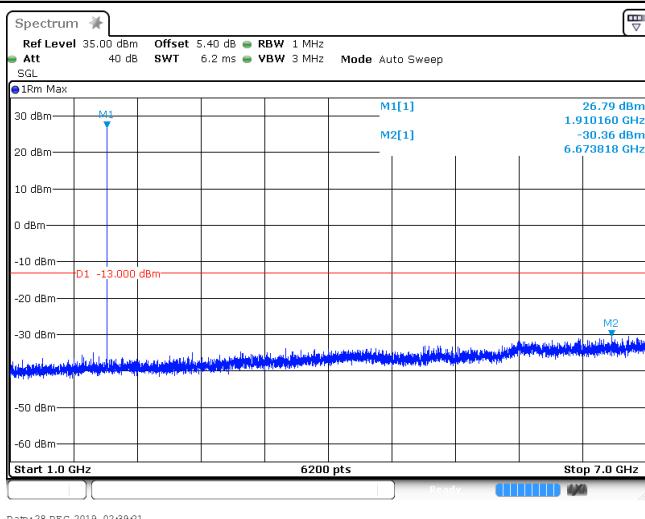


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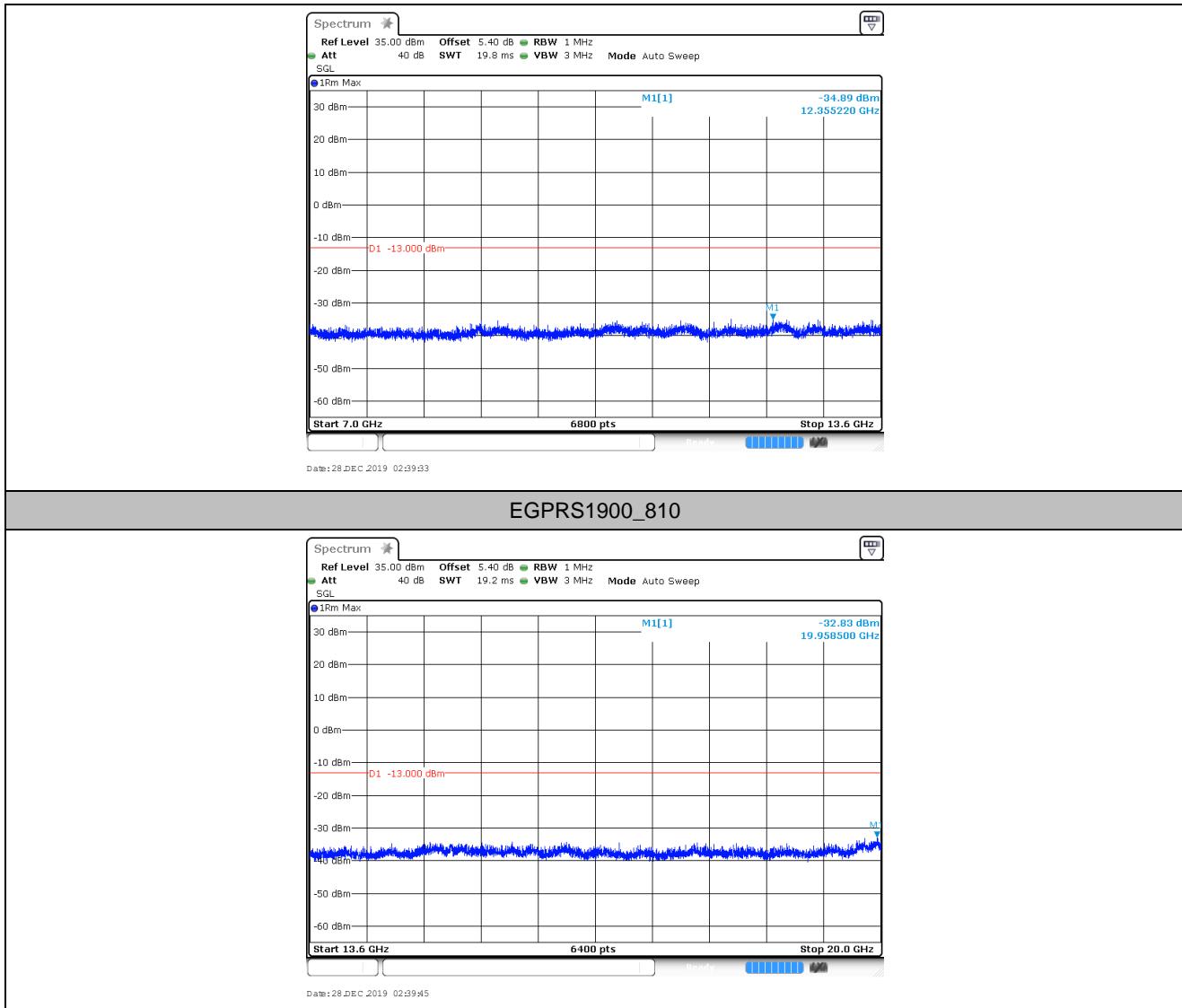
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7. Field Strength of Spurious Radiation

The 5029E data:

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 116.8193 | -65.04 | -13.00 | 52.04 | Vertical |
| 3700.5234 | -48.51 | -13.00 | 35.51 | Vertical |
| 5550.5850 | -33.02 | -13.00 | 20.02 | Vertical |
| 9251.2084 | -45.33 | -13.00 | 32.33 | Vertical |
| 11101.2700 | -39.24 | -13.00 | 26.24 | Vertical |
| 12951.3317 | -45.22 | -13.00 | 32.22 | Vertical |
| 44.6962 | -63.77 | -13.00 | 50.77 | Horizontal |
| 3700.5234 | -40.77 | -13.00 | 27.77 | Horizontal |
| 5550.5850 | -24.65 | -13.00 | 11.65 | Horizontal |
| 7400.6467 | -41.67 | -13.00 | 28.67 | Horizontal |
| 11101.2700 | -35.77 | -13.00 | 22.77 | Horizontal |
| 12951.3317 | -39.17 | -13.00 | 26.17 | Horizontal |

7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 111.6781 | -65.08 | -13.00 | 52.08 | Vertical |
| 3760.0253 | -43.10 | -13.00 | 30.10 | Vertical |
| 5640.0880 | -36.97 | -13.00 | 23.97 | Vertical |
| 7520.1507 | -46.62 | -13.00 | 33.62 | Vertical |
| 11280.2760 | -38.45 | -13.00 | 25.45 | Vertical |
| 13159.3386 | -46.53 | -13.00 | 33.53 | Vertical |
| 45.0843 | -63.67 | -13.00 | 50.67 | Horizontal |
| 3760.0253 | -40.60 | -13.00 | 27.60 | Horizontal |
| 5640.0880 | -24.71 | -13.00 | 11.71 | Horizontal |
| 7519.6507 | -40.06 | -13.00 | 27.06 | Horizontal |
| 11280.2760 | -30.98 | -13.00 | 17.98 | Horizontal |
| 13160.3387 | -44.33 | -13.00 | 31.33 | Horizontal |

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7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 107.9434 | -64.45 | -13.00 | 51.45 | Vertical |
| 3819.5273 | -39.31 | -13.00 | 26.31 | Vertical |
| 5729.0910 | -36.31 | -13.00 | 23.31 | Vertical |
| 9549.2183 | -44.71 | -13.00 | 31.71 | Vertical |
| 11458.7820 | -46.92 | -13.00 | 33.92 | Vertical |
| 17999.5000 | -39.20 | -13.00 | 26.20 | Vertical |
| 45.2298 | -63.37 | -13.00 | 50.37 | Horizontal |
| 3819.5273 | -39.63 | -13.00 | 26.63 | Horizontal |
| 5729.0910 | -26.13 | -13.00 | 13.13 | Horizontal |
| 9549.2183 | -41.91 | -13.00 | 28.91 | Horizontal |
| 11458.7820 | -34.79 | -13.00 | 21.79 | Horizontal |
| 13368.8456 | -43.88 | -13.00 | 30.88 | Horizontal |

7.2. Test Band = GSM 850
7.2.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 113.2302 | -64.69 | -13.00 | 51.69 | Vertical |
| 1648.5297 | -56.13 | -13.00 | 43.13 | Vertical |
| 2472.6945 | -40.11 | -13.00 | 27.11 | Vertical |
| 4121.0374 | -30.74 | -13.00 | 17.74 | Vertical |
| 4945.0648 | -48.69 | -13.00 | 35.69 | Vertical |
| 5769.0923 | -53.54 | -13.00 | 40.54 | Vertical |
| 39.5550 | -63.40 | -13.00 | 50.40 | Horizontal |
| 2472.6945 | -41.55 | -13.00 | 28.55 | Horizontal |
| 3297.0099 | -43.84 | -13.00 | 30.84 | Horizontal |
| 4121.0374 | -39.18 | -13.00 | 26.18 | Horizontal |
| 4945.0648 | -50.44 | -13.00 | 37.44 | Horizontal |
| 5769.5923 | -46.04 | -13.00 | 33.04 | Horizontal |

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7.2.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 113.8607 | -64.35 | -13.00 | 51.35 | Vertical |
| 1673.3347 | -50.83 | -13.00 | 37.83 | Vertical |
| 2509.9020 | -36.04 | -13.00 | 23.04 | Vertical |
| 3346.5116 | -48.91 | -13.00 | 35.91 | Vertical |
| 4183.0394 | -29.19 | -13.00 | 16.19 | Vertical |
| 5856.0952 | -50.45 | -13.00 | 37.45 | Vertical |
| 43.5807 | -62.70 | -13.00 | 49.70 | Horizontal |
| 2509.9020 | -36.52 | -13.00 | 23.52 | Horizontal |
| 3346.5116 | -47.93 | -13.00 | 34.93 | Horizontal |
| 4183.0394 | -38.28 | -13.00 | 25.28 | Horizontal |
| 5019.5673 | -51.24 | -13.00 | 38.24 | Horizontal |
| 5856.0952 | -46.51 | -13.00 | 33.51 | Horizontal |

7.2.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 111.5326 | -64.54 | -13.00 | 51.54 | Vertical |
| 1697.7395 | -47.42 | -13.00 | 34.42 | Vertical |
| 2546.7093 | -36.96 | -13.00 | 23.96 | Vertical |
| 3395.0132 | -46.58 | -13.00 | 33.58 | Vertical |
| 4243.5415 | -41.64 | -13.00 | 28.64 | Vertical |
| 17995.9999 | -40.29 | -13.00 | 27.29 | Vertical |
| 44.0172 | -63.22 | -13.00 | 50.22 | Horizontal |
| 1697.3395 | -51.06 | -13.00 | 38.06 | Horizontal |
| 2546.7093 | -37.64 | -13.00 | 24.64 | Horizontal |
| 3395.0132 | -47.16 | -13.00 | 34.16 | Horizontal |
| 4244.0415 | -40.52 | -13.00 | 27.52 | Horizontal |
| 5941.0980 | -51.46 | -13.00 | 38.46 | Horizontal |

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The 5029F data:**7.3. Test Band = GSM 1900****7.3.1. Test Channel = LCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 110.5140 | -64.94 | -13.00 | 51.94 | Vertical |
| 3700.5234 | -47.58 | -13.00 | 34.58 | Vertical |
| 5550.5850 | -34.39 | -13.00 | 21.39 | Vertical |
| 7400.6467 | -43.72 | -13.00 | 30.72 | Vertical |
| 11101.7701 | -33.50 | -13.00 | 20.50 | Vertical |
| 12951.3317 | -44.94 | -13.00 | 31.94 | Vertical |
| 39.7975 | -64.49 | -13.00 | 51.49 | Horizontal |
| 3700.5234 | -44.81 | -13.00 | 31.81 | Horizontal |
| 5550.5850 | -27.34 | -13.00 | 14.34 | Horizontal |
| 7400.6467 | -36.56 | -13.00 | 23.56 | Horizontal |
| 11101.2700 | -32.07 | -13.00 | 19.07 | Horizontal |
| 12951.8317 | -39.32 | -13.00 | 26.32 | Horizontal |

7.3.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 111.8236 | -64.99 | -13.00 | 51.99 | Vertical |
| 3760.0253 | -37.09 | -13.00 | 24.09 | Vertical |
| 5640.0880 | -36.32 | -13.00 | 23.32 | Vertical |
| 7520.1507 | -44.87 | -13.00 | 31.87 | Vertical |
| 11280.2760 | -36.86 | -13.00 | 23.86 | Vertical |
| 17999.5000 | -39.65 | -13.00 | 26.65 | Vertical |
| 39.5550 | -64.18 | -13.00 | 51.18 | Horizontal |
| 2713.5427 | -36.64 | -13.00 | 23.64 | Horizontal |
| 3760.0253 | -43.01 | -13.00 | 30.01 | Horizontal |
| 5640.0880 | -30.54 | -13.00 | 17.54 | Horizontal |
| 7520.1507 | -40.10 | -13.00 | 27.10 | Horizontal |
| 11279.7760 | -31.39 | -13.00 | 18.39 | Horizontal |

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7.3.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 110.2715 | -63.99 | -13.00 | 50.99 | Vertical |
| 3819.5273 | -43.18 | -13.00 | 30.18 | Vertical |
| 5729.5910 | -37.57 | -13.00 | 24.57 | Vertical |
| 7639.1546 | -43.98 | -13.00 | 30.98 | Vertical |
| 11458.7820 | -46.24 | -13.00 | 33.24 | Vertical |
| 17996.9999 | -39.85 | -13.00 | 26.85 | Vertical |
| 44.0172 | -64.42 | -13.00 | 51.42 | Horizontal |
| 248.5519 | -68.26 | -13.00 | 55.26 | Horizontal |
| 3819.5273 | -45.92 | -13.00 | 32.92 | Horizontal |
| 5729.5910 | -31.23 | -13.00 | 18.23 | Horizontal |
| 7639.1546 | -45.12 | -13.00 | 32.12 | Horizontal |
| 11458.7820 | -40.00 | -13.00 | 27.00 | Horizontal |

7.4. Test Band = GSM 850**7.4.1. Test Channel = LCH**

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 115.4128 | -64.78 | -13.00 | 51.78 | Vertical |
| 1648.1296 | -48.25 | -13.00 | 35.25 | Vertical |
| 2472.6945 | -40.14 | -13.00 | 27.14 | Vertical |
| 3297.0432 | -45.49 | -13.00 | 32.49 | Vertical |
| 4120.9707 | -39.03 | -13.00 | 26.03 | Vertical |
| 4944.8982 | -52.74 | -13.00 | 39.74 | Vertical |
| 41.7376 | -63.26 | -13.00 | 50.26 | Horizontal |
| 1648.5297 | -50.21 | -13.00 | 37.21 | Horizontal |
| 2472.6945 | -43.55 | -13.00 | 30.55 | Horizontal |
| 3296.8099 | -44.26 | -13.00 | 31.26 | Horizontal |
| 4120.9707 | -39.43 | -13.00 | 26.43 | Horizontal |
| 4945.1315 | -46.38 | -13.00 | 33.38 | Horizontal |

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7.4.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 110.2230 | -64.16 | -13.00 | 51.16 | Vertical |
| 1672.9346 | -51.52 | -13.00 | 38.52 | Vertical |
| 2509.9020 | -35.80 | -13.00 | 22.80 | Vertical |
| 3346.2782 | -50.69 | -13.00 | 37.69 | Vertical |
| 4183.0394 | -40.16 | -13.00 | 27.16 | Vertical |
| 5019.5673 | -54.35 | -13.00 | 41.35 | Vertical |
| 43.2897 | -63.69 | -13.00 | 50.69 | Horizontal |
| 1673.3347 | -46.51 | -13.00 | 33.51 | Horizontal |
| 2509.9020 | -38.89 | -13.00 | 25.89 | Horizontal |
| 3346.7449 | -49.33 | -13.00 | 36.33 | Horizontal |
| 4183.0394 | -41.24 | -13.00 | 28.24 | Horizontal |
| 5856.3285 | -52.61 | -13.00 | 39.61 | Horizontal |

7.4.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 108.6709 | -63.62 | -13.00 | 50.62 | Vertical |
| 1697.3395 | -45.35 | -13.00 | 32.35 | Vertical |
| 2546.3093 | -39.35 | -13.00 | 26.35 | Vertical |
| 3395.2798 | -52.33 | -13.00 | 39.33 | Vertical |
| 4243.9415 | -37.15 | -13.00 | 24.15 | Vertical |
| 9882.1627 | -52.09 | -13.00 | 39.09 | Vertical |
| 41.6406 | -63.83 | -13.00 | 50.83 | Horizontal |
| 234.1467 | -66.36 | -13.00 | 53.36 | Horizontal |
| 1697.3395 | -43.50 | -13.00 | 30.50 | Horizontal |
| 2546.3093 | -42.22 | -13.00 | 29.22 | Horizontal |
| 3395.5132 | -49.48 | -13.00 | 36.48 | Horizontal |
| 4243.9415 | -34.69 | -13.00 | 21.69 | Horizontal |

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

| Band | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| GSM850 | 128 | VL | TN | 0.81 | 0.000979 | ±2.5 | PASS |
| GSM850 | 128 | VN | TN | -1.74 | -0.002115 | ±2.5 | PASS |
| GSM850 | 128 | VH | TN | -2.55 | -0.003095 | ±2.5 | PASS |
| GSM850 | 190 | VL | TN | 0.90 | 0.001081 | ±2.5 | PASS |
| GSM850 | 190 | VN | TN | 0.58 | 0.000695 | ±2.5 | PASS |
| GSM850 | 190 | VH | TN | 1.97 | 0.002354 | ±2.5 | PASS |
| GSM850 | 251 | VL | TN | -1.26 | -0.001483 | ±2.5 | PASS |
| GSM850 | 251 | VN | TN | -1.45 | -0.001712 | ±2.5 | PASS |
| GSM850 | 251 | VH | TN | 1.65 | 0.001940 | ±2.5 | PASS |
| EGPRS850 | 128 | VL | TN | -1.42 | -0.001724 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | TN | 5.13 | 0.006228 | ±2.5 | PASS |
| EGPRS850 | 128 | VH | TN | 2.91 | 0.003526 | ±2.5 | PASS |
| EGPRS850 | 190 | VL | TN | 1.74 | 0.002084 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | TN | 5.13 | 0.006136 | ±2.5 | PASS |
| EGPRS850 | 190 | VH | TN | -1.00 | -0.001196 | ±2.5 | PASS |
| EGPRS850 | 251 | VL | TN | 5.81 | 0.006847 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | TN | 0.94 | 0.001103 | ±2.5 | PASS |
| EGPRS850 | 251 | VH | TN | 0.19 | 0.000228 | ±2.5 | PASS |
| GSM1900 | 512 | VL | TN | 8.17 | 0.004415 | ±2.5 | PASS |
| GSM1900 | 512 | VN | TN | 7.26 | 0.003926 | ±2.5 | PASS |
| GSM1900 | 512 | VH | TN | 13.79 | 0.007451 | ±2.5 | PASS |
| GSM1900 | 661 | VL | TN | 8.56 | 0.004551 | ±2.5 | PASS |
| GSM1900 | 661 | VN | TN | 13.04 | 0.006938 | ±2.5 | PASS |
| GSM1900 | 661 | VH | TN | 8.81 | 0.004688 | ±2.5 | PASS |
| GSM1900 | 810 | VL | TN | 7.30 | 0.003821 | ±2.5 | PASS |
| GSM1900 | 810 | VN | TN | 7.04 | 0.003685 | ±2.5 | PASS |
| GSM1900 | 810 | VH | TN | 5.46 | 0.002857 | ±2.5 | PASS |
| EGPRS1900 | 512 | VL | TN | 0.58 | 0.000314 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | TN | 1.55 | 0.000838 | ±2.5 | PASS |
| EGPRS1900 | 512 | VH | TN | 13.33 | 0.007207 | ±2.5 | PASS |
| EGPRS1900 | 661 | VL | TN | 8.62 | 0.004585 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | TN | 10.98 | 0.005839 | ±2.5 | PASS |
| EGPRS1900 | 661 | VH | TN | 6.52 | 0.003469 | ±2.5 | PASS |
| EGPRS1900 | 810 | VL | TN | 11.59 | 0.006069 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | TN | 8.56 | 0.004480 | ±2.5 | PASS |
| EGPRS1900 | 810 | VH | TN | 7.75 | 0.004057 | ±2.5 | PASS |

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8.2. Frequency Error Vs Temperature

| Band | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|----------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| GSM850 | 128 | VN | -30 | 4.39 | 0.005327 | ±2.5 | PASS |
| GSM850 | 128 | VN | -20 | 2.78 | 0.003369 | ±2.5 | PASS |
| GSM850 | 128 | VN | -10 | -0.68 | -0.000823 | ±2.5 | PASS |
| GSM850 | 128 | VN | 0 | -1.61 | -0.001959 | ±2.5 | PASS |
| GSM850 | 128 | VN | 10 | -5.17 | -0.006268 | ±2.5 | PASS |
| GSM850 | 128 | VN | 20 | -2.68 | -0.003251 | ±2.5 | PASS |
| GSM850 | 128 | VN | 30 | -5.20 | -0.006307 | ±2.5 | PASS |
| GSM850 | 128 | VN | 40 | -2.29 | -0.002781 | ±2.5 | PASS |
| GSM850 | 128 | VN | 50 | -3.16 | -0.003839 | ±2.5 | PASS |
| GSM850 | 190 | VN | -30 | 0.87 | 0.001042 | ±2.5 | PASS |
| GSM850 | 190 | VN | -20 | 2.20 | 0.002624 | ±2.5 | PASS |
| GSM850 | 190 | VN | -10 | 5.23 | 0.006252 | ±2.5 | PASS |
| GSM850 | 190 | VN | 0 | 1.07 | 0.001274 | ±2.5 | PASS |
| GSM850 | 190 | VN | 10 | -1.68 | -0.002007 | ±2.5 | PASS |
| GSM850 | 190 | VN | 20 | -2.39 | -0.002856 | ±2.5 | PASS |
| GSM850 | 190 | VN | 30 | -1.23 | -0.001466 | ±2.5 | PASS |
| GSM850 | 190 | VN | 40 | 0.26 | 0.000309 | ±2.5 | PASS |
| GSM850 | 190 | VN | 50 | -2.39 | -0.002856 | ±2.5 | PASS |
| GSM850 | 251 | VN | -30 | 0.58 | 0.000685 | ±2.5 | PASS |
| GSM850 | 251 | VN | -20 | 4.94 | 0.005820 | ±2.5 | PASS |
| GSM850 | 251 | VN | -10 | 1.87 | 0.002206 | ±2.5 | PASS |
| GSM850 | 251 | VN | 0 | -3.10 | -0.003652 | ±2.5 | PASS |
| GSM850 | 251 | VN | 10 | -1.68 | -0.001978 | ±2.5 | PASS |
| GSM850 | 251 | VN | 20 | 2.29 | 0.002701 | ±2.5 | PASS |
| GSM850 | 251 | VN | 30 | -0.16 | -0.000190 | ±2.5 | PASS |
| GSM850 | 251 | VN | 40 | -0.03 | -0.000038 | ±2.5 | PASS |
| GSM850 | 251 | VN | 50 | -0.87 | -0.001027 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | -30 | 1.00 | 0.001214 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | -20 | 3.39 | 0.004113 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | -10 | -0.71 | -0.000862 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 0 | 3.75 | 0.004544 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 10 | -1.32 | -0.001606 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 20 | 3.94 | 0.004779 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 30 | 1.78 | 0.002154 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 40 | 3.81 | 0.004622 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 50 | 0.42 | 0.000509 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | -30 | 1.16 | 0.001389 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | -20 | -1.61 | -0.001930 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | -10 | 1.58 | 0.001891 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 0 | -0.26 | -0.000309 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 10 | 3.10 | 0.003705 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 20 | 0.58 | 0.000695 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 30 | 3.07 | 0.003666 | ±2.5 | PASS |

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| | | | | | | | |
|-----------|-----|----|-----|-------|-----------|------|------|
| EGPRS850 | 190 | VN | 40 | 0.03 | 0.000039 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 50 | 1.61 | 0.001930 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | -30 | 0.68 | 0.000799 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | -20 | 1.87 | 0.002206 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | -10 | 1.26 | 0.001483 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 0 | 0.16 | 0.000190 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 10 | -0.42 | -0.000494 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 20 | -0.65 | -0.000761 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 30 | 0.65 | 0.000761 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 40 | -1.68 | -0.001978 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 50 | 3.13 | 0.003690 | ±2.5 | PASS |
| GSM1900 | 512 | VN | -30 | 8.59 | 0.004642 | ±2.5 | PASS |
| GSM1900 | 512 | VN | -20 | 9.91 | 0.005357 | ±2.5 | PASS |
| GSM1900 | 512 | VN | -10 | 12.82 | 0.006928 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 0 | 1.84 | 0.000995 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 10 | 0.19 | 0.000105 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 20 | -1.36 | -0.000733 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 30 | -2.49 | -0.001344 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 40 | 0.65 | 0.000349 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 50 | 1.45 | 0.000785 | ±2.5 | PASS |
| GSM1900 | 661 | VN | -30 | 11.36 | 0.006045 | ±2.5 | PASS |
| GSM1900 | 661 | VN | -20 | 11.24 | 0.005976 | ±2.5 | PASS |
| GSM1900 | 661 | VN | -10 | 6.97 | 0.003709 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 0 | 3.55 | 0.001889 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 10 | 3.58 | 0.001906 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 20 | 2.74 | 0.001460 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 30 | 0.45 | 0.000240 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 40 | -1.81 | -0.000962 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 50 | 1.78 | 0.000945 | ±2.5 | PASS |
| GSM1900 | 810 | VN | -30 | 7.04 | 0.003685 | ±2.5 | PASS |
| GSM1900 | 810 | VN | -20 | 7.59 | 0.003973 | ±2.5 | PASS |
| GSM1900 | 810 | VN | -10 | 4.94 | 0.002587 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 0 | 9.10 | 0.004767 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 10 | 0.06 | 0.000034 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 20 | -0.39 | -0.000203 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 30 | -4.07 | -0.002130 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 40 | 1.90 | 0.000997 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 50 | 1.45 | 0.000761 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | -30 | 2.26 | 0.001221 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | -20 | 4.46 | 0.002408 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | -10 | 12.88 | 0.006963 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 0 | 8.39 | 0.004537 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 10 | 4.04 | 0.002181 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 20 | 8.59 | 0.004642 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 30 | 2.55 | 0.001379 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 40 | 1.65 | 0.000890 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 50 | -3.97 | -0.002146 | ±2.5 | PASS |

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| | | | | | | | |
|-----------|-----|----|-----|-------|-----------|------|------|
| EGPRS1900 | 661 | VN | -30 | 3.94 | 0.002095 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | -20 | 8.04 | 0.004276 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | -10 | 4.46 | 0.002370 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 0 | 10.91 | 0.005805 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 10 | 9.46 | 0.005032 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 20 | 4.71 | 0.002507 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 30 | -2.16 | -0.001151 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 40 | -0.81 | -0.000429 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 50 | 5.00 | 0.002662 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | -30 | 5.36 | 0.002806 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | -20 | 5.07 | 0.002654 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | -10 | 5.26 | 0.002756 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 0 | 8.65 | 0.004531 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 10 | 4.62 | 0.002417 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 20 | 4.84 | 0.002536 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 30 | 2.10 | 0.001099 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 40 | 3.20 | 0.001674 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 50 | 4.88 | 0.002553 | ±2.5 | PASS |

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