



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 | --- | 33.62 | 26.47 | 38.45 | PASS |
| GSM850 | 190 | --- | 33.58 | 26.43 | 38.45 | PASS |
| GSM850 | 251 | --- | 33.47 | 26.32 | 38.45 | PASS |
| EGPRS850 | 128 | 1 | 27.55 | 20.4 | 38.45 | PASS |
| EGPRS850 | 128 | 2 | 26.50 | 19.35 | 38.45 | PASS |
| EGPRS850 | 128 | 3 | 24.41 | 17.26 | 38.45 | PASS |
| EGPRS850 | 128 | 4 | 23.49 | 16.34 | 38.45 | PASS |
| EGPRS850 | 190 | 1 | 27.48 | 20.33 | 38.45 | PASS |
| EGPRS850 | 190 | 2 | 26.59 | 19.44 | 38.45 | PASS |
| EGPRS850 | 190 | 3 | 24.59 | 17.44 | 38.45 | PASS |
| EGPRS850 | 190 | 4 | 23.48 | 16.33 | 38.45 | PASS |
| EGPRS850 | 251 | 1 | 27.24 | 20.09 | 38.45 | PASS |
| EGPRS850 | 251 | 2 | 26.65 | 19.5 | 38.45 | PASS |
| EGPRS850 | 251 | 3 | 24.64 | 17.49 | 38.45 | PASS |
| EGPRS850 | 251 | 4 | 23.31 | 16.16 | 38.45 | PASS |

| Band | Channel | Slot | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|-----------|---------|------|-----------------------|------------|------------|---------|
| GSM1900 | 512 | --- | 30.63 | 28.13 | 33.00 | PASS |
| GSM1900 | 661 | --- | 30.54 | 28.04 | 33.00 | PASS |
| GSM1900 | 810 | --- | 30.67 | 28.17 | 33.00 | PASS |
| EGPRS1900 | 512 | 1 | 25.58 | 23.08 | 33.00 | PASS |
| EGPRS1900 | 512 | 2 | 24.11 | 21.61 | 33.00 | PASS |
| EGPRS1900 | 512 | 3 | 22.89 | 20.39 | 33.00 | PASS |
| EGPRS1900 | 512 | 4 | 21.52 | 19.02 | 33.00 | PASS |
| EGPRS1900 | 661 | 1 | 25.43 | 22.93 | 33.00 | PASS |
| EGPRS1900 | 661 | 2 | 24.05 | 21.55 | 33.00 | PASS |
| EGPRS1900 | 661 | 3 | 22.83 | 20.33 | 33.00 | PASS |
| EGPRS1900 | 661 | 4 | 21.48 | 18.98 | 33.00 | PASS |
| EGPRS1900 | 810 | 1 | 25.55 | 23.05 | 33.00 | PASS |

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| | | | | | | |
|-----------|-----|---|-------|-------|-------|------|
| EGPRS1900 | 810 | 2 | 24.01 | 21.51 | 33.00 | PASS |
| EGPRS1900 | 810 | 3 | 22.95 | 20.45 | 33.00 | PASS |
| EGPRS1900 | 810 | 4 | 21.50 | 19 | 33.00 | PASS |

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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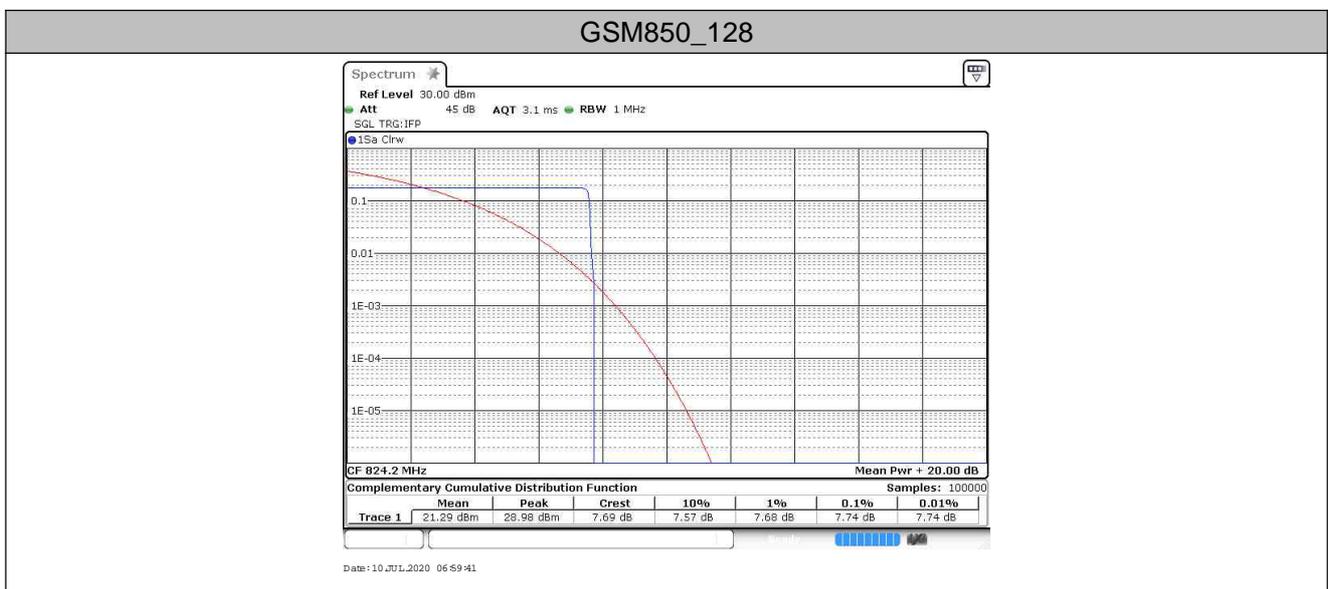


2. Peak-to-Average Ratio

2.1. Test Result

| Band | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-----------|---------|---------------------------|-----------|---------|
| GSM850 | 128 | 7.74 | 13 | PASS |
| GSM850 | 190 | 7.71 | 13 | PASS |
| GSM850 | 251 | 7.68 | 13 | PASS |
| EGPRS850 | 128 | 4.43 | 13 | PASS |
| EGPRS850 | 190 | 4.49 | 13 | PASS |
| EGPRS850 | 251 | 10.46 | 13 | PASS |
| GSM1900 | 512 | 7.68 | 13 | PASS |
| GSM1900 | 661 | 7.65 | 13 | PASS |
| GSM1900 | 810 | 7.68 | 13 | PASS |
| EGPRS1900 | 512 | 11.07 | 13 | PASS |
| EGPRS1900 | 661 | 10.70 | 13 | PASS |
| EGPRS1900 | 810 | 10.99 | 13 | PASS |

2.2. Part II - Test Plots



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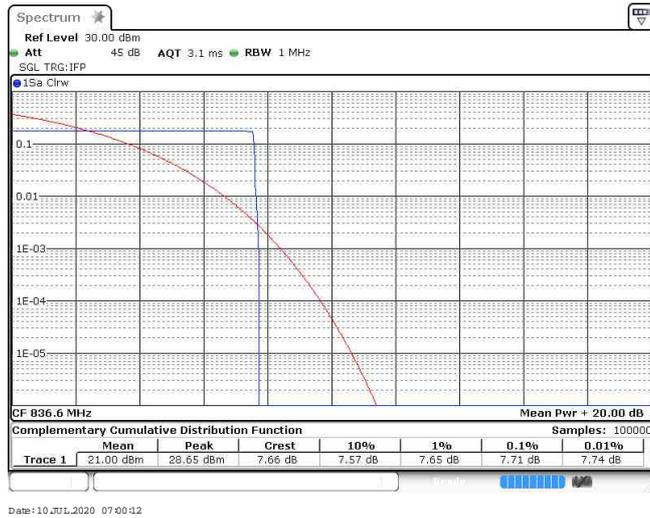
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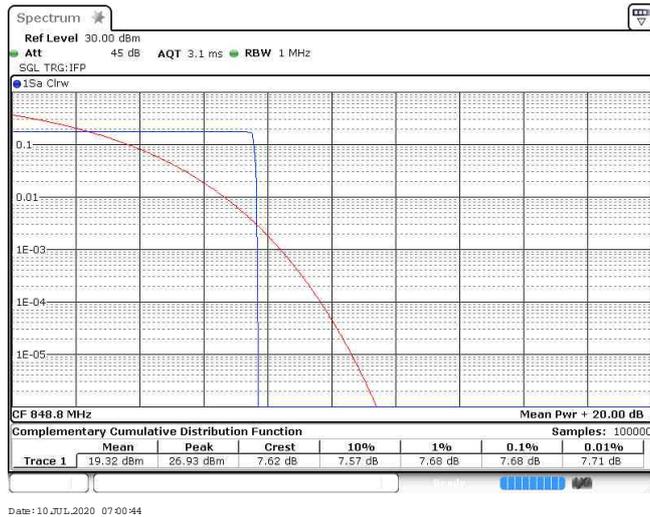
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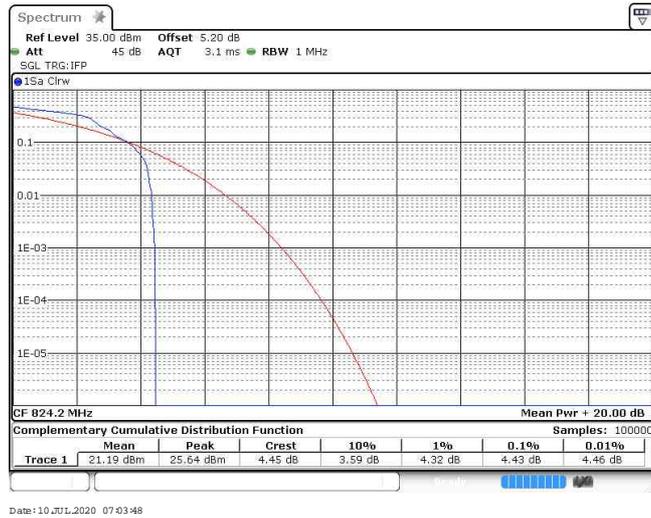
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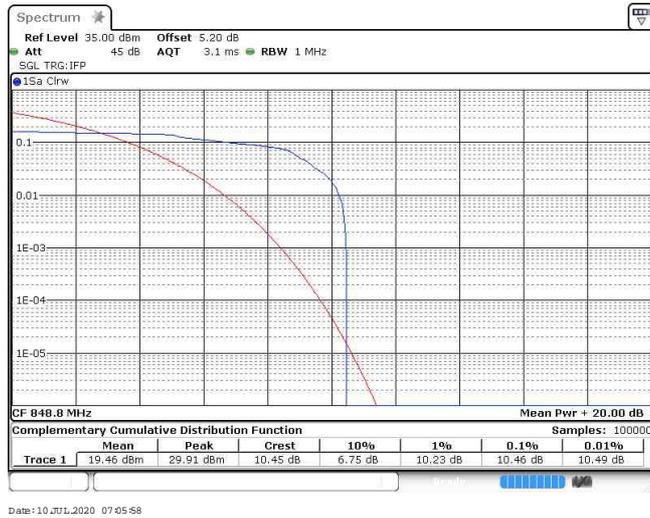
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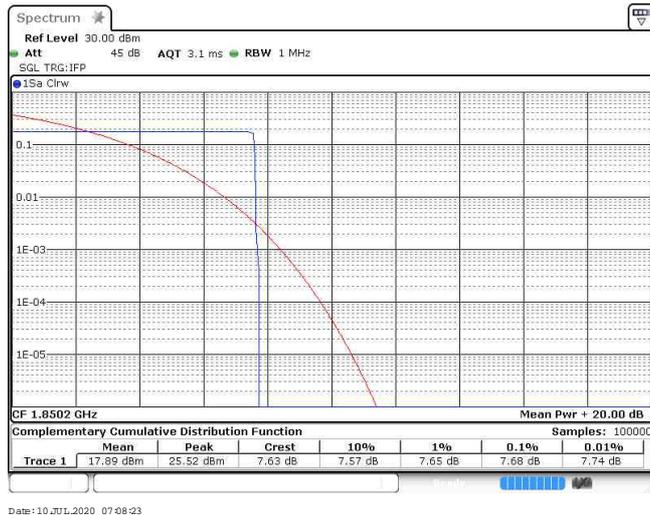


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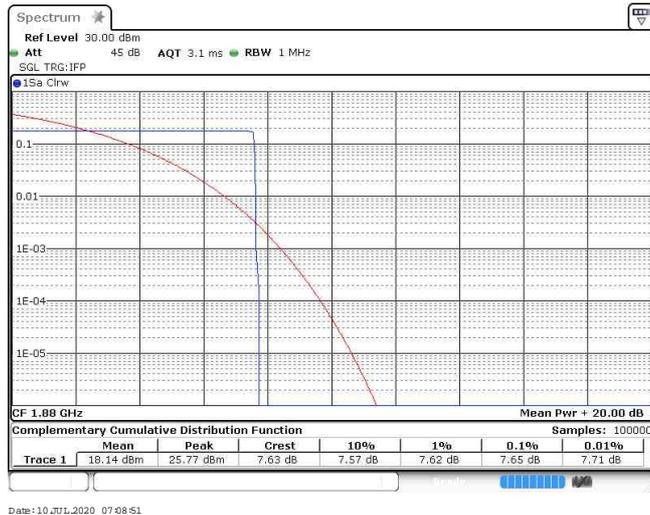
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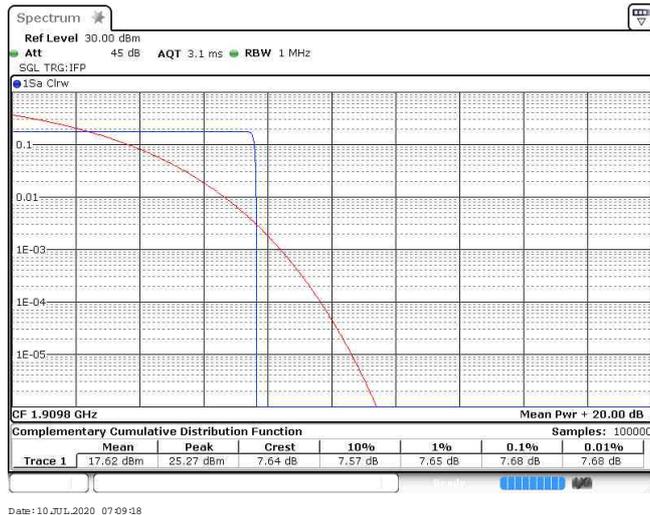


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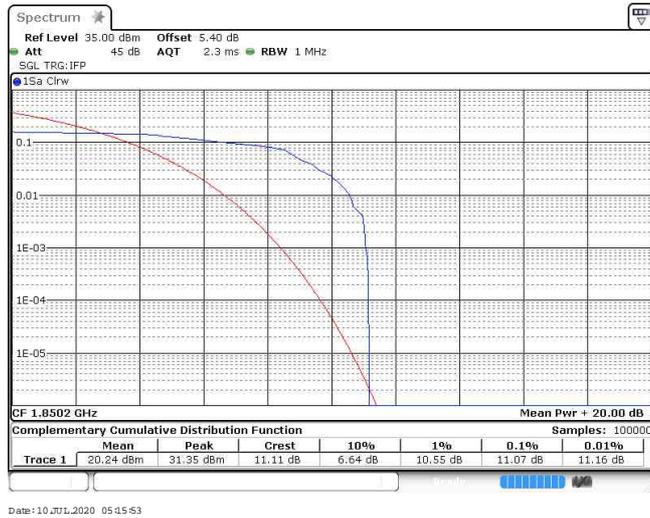
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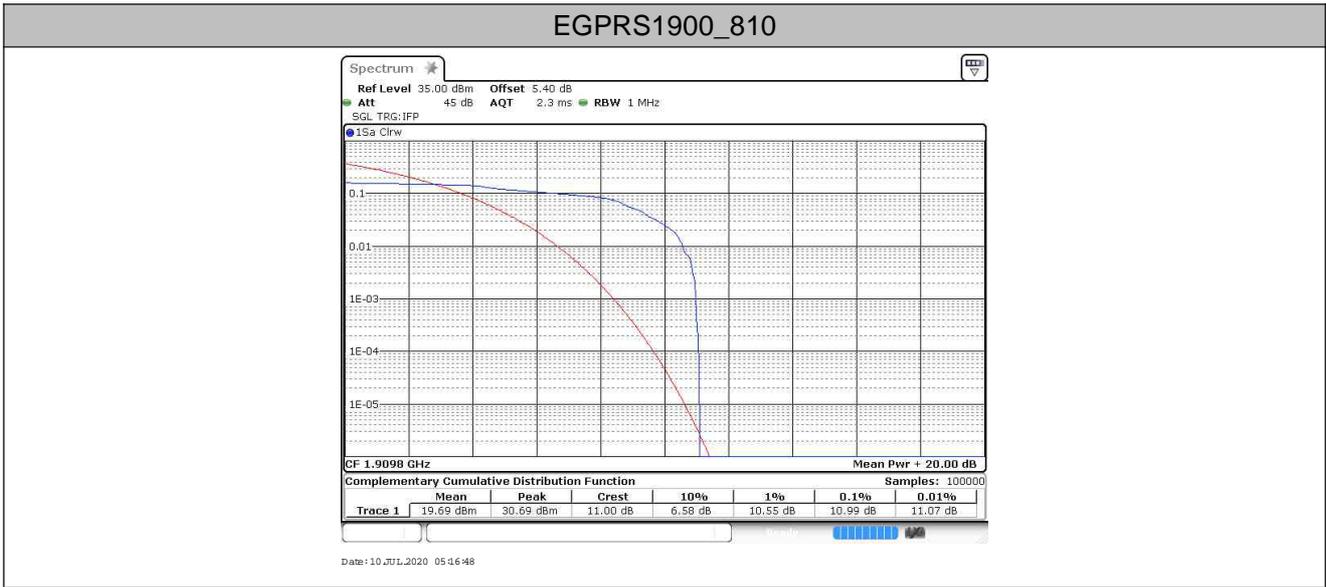
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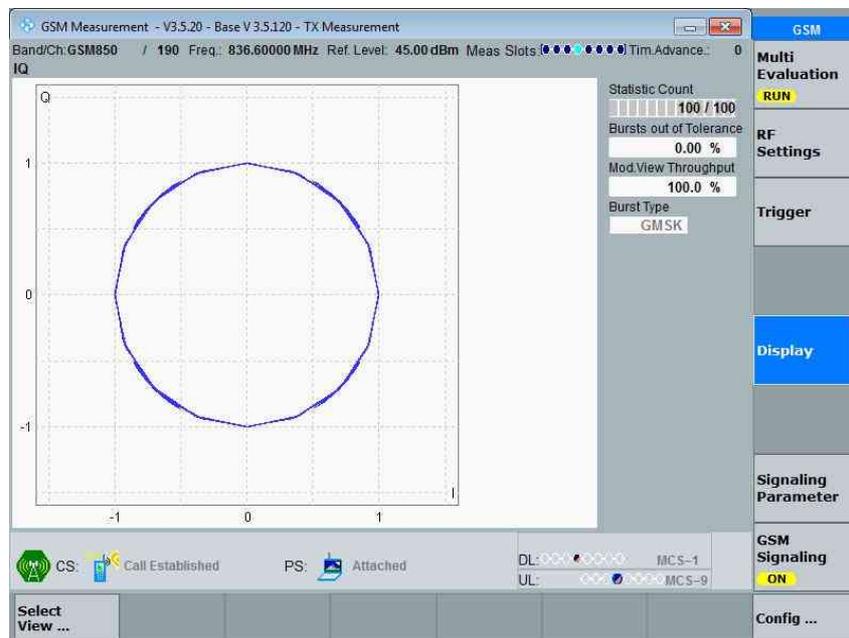
3. Modulation Characteristics

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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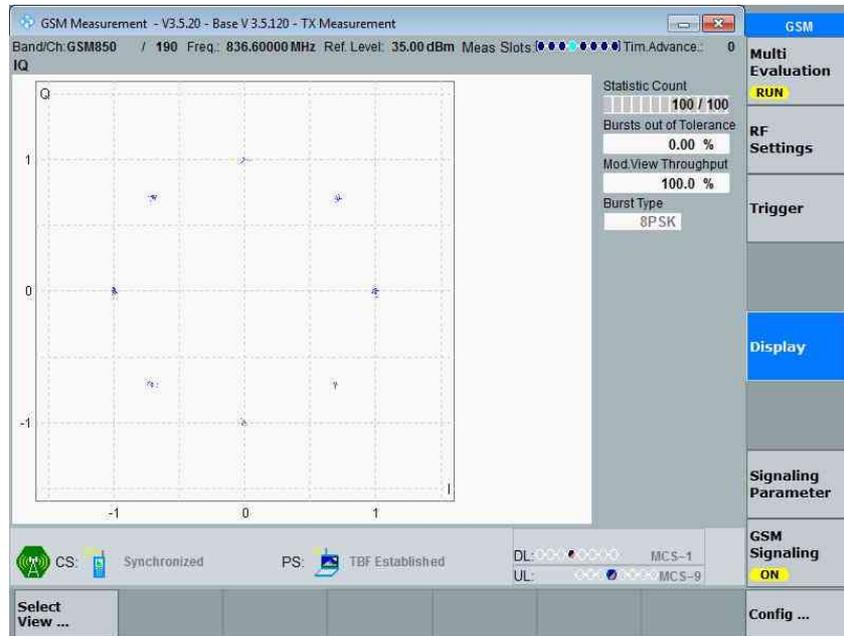
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3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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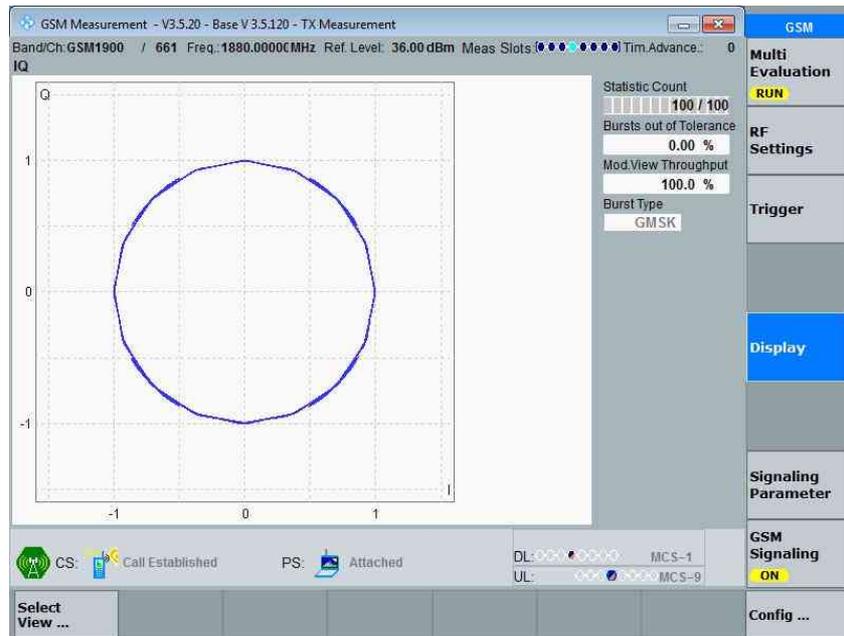
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3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH



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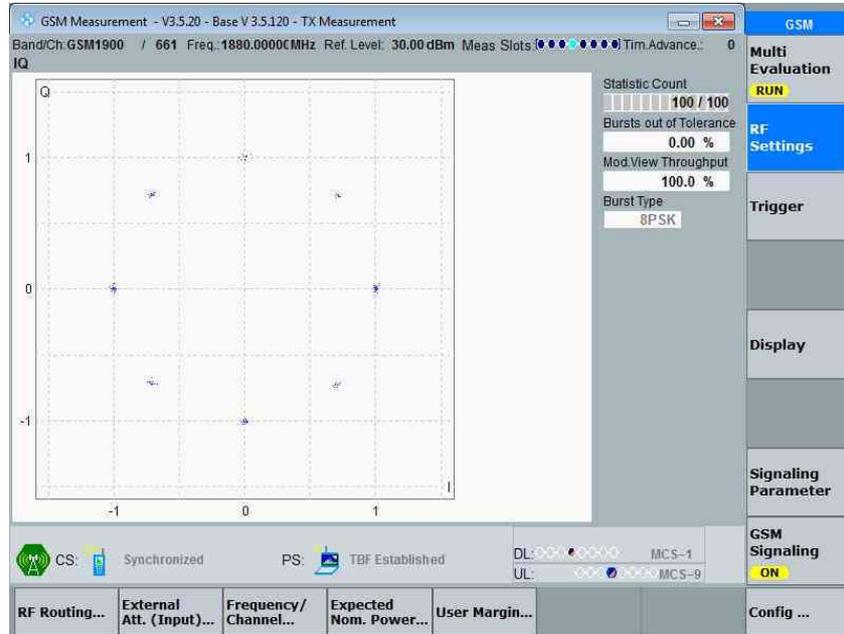
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3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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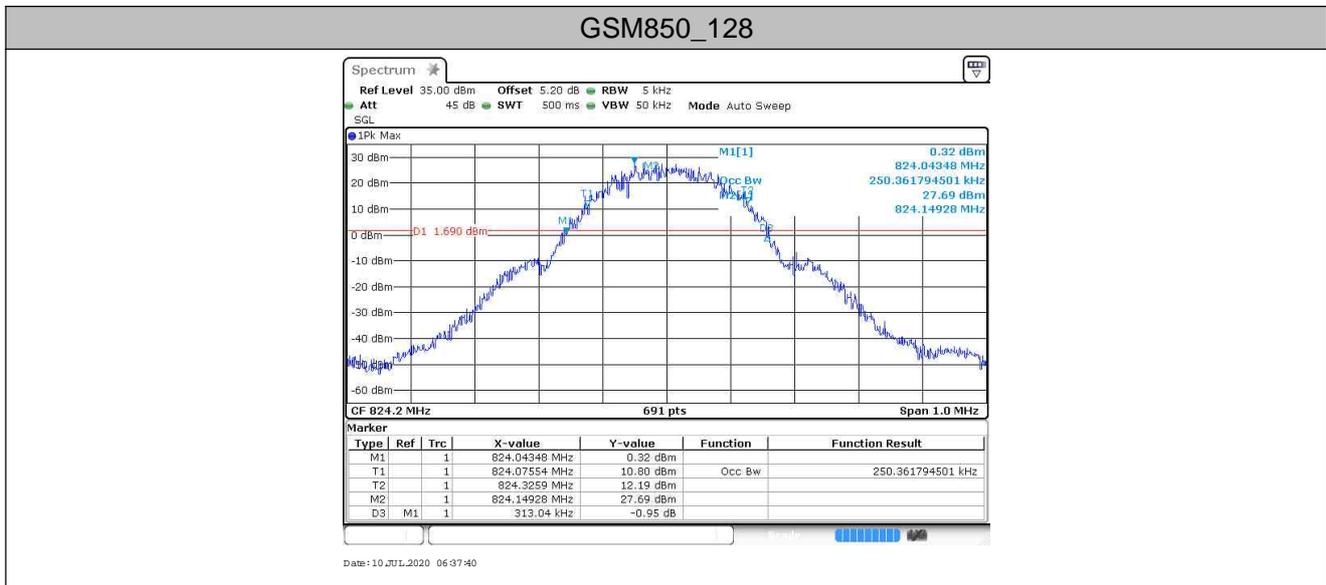


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

| Band | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-----------|---------|--------------------------|----------------------|------------|---------|
| GSM850 | 128 | 250.36 | 313.04 | --- | PASS |
| GSM850 | 190 | 246.02 | 310.14 | --- | PASS |
| GSM850 | 251 | 247.47 | 302.90 | --- | PASS |
| EGPRS850 | 128 | 248.91 | 315.94 | --- | PASS |
| EGPRS850 | 190 | 248.91 | 314.49 | --- | PASS |
| EGPRS850 | 251 | 246.02 | 310.14 | --- | PASS |
| GSM1900 | 512 | 246.02 | 295.65 | --- | PASS |
| GSM1900 | 661 | 246.02 | 289.86 | --- | PASS |
| GSM1900 | 810 | 248.91 | 298.55 | --- | PASS |
| EGPRS1900 | 512 | 247.47 | 298.55 | --- | PASS |
| EGPRS1900 | 661 | 248.91 | 310.14 | --- | PASS |
| EGPRS1900 | 810 | 247.47 | 295.65 | --- | PASS |

4.2. Test Plots



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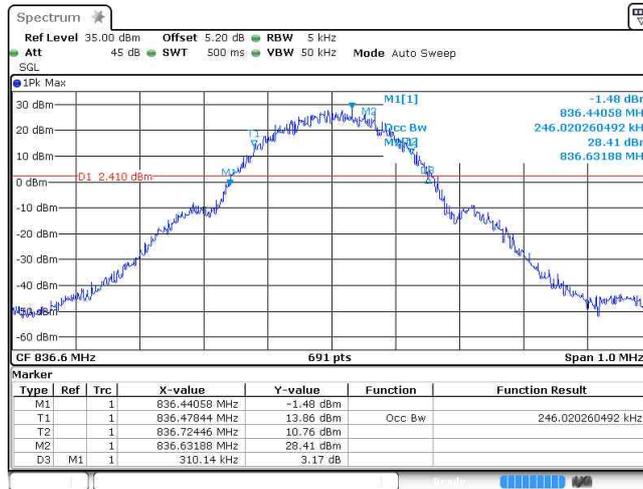
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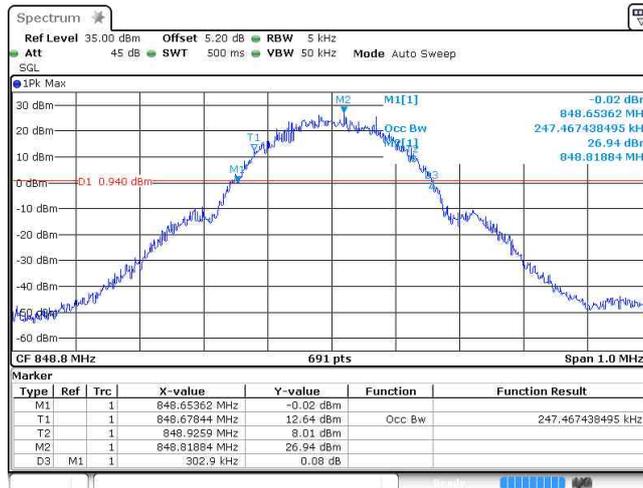


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GSM850_251



Date: 10 JUL 2020 06:38:32

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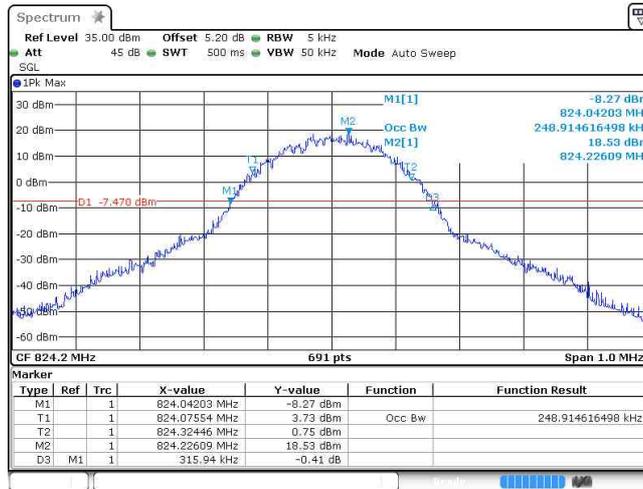
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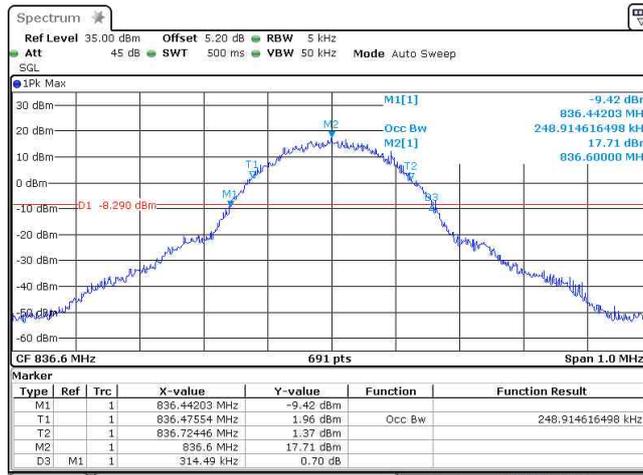


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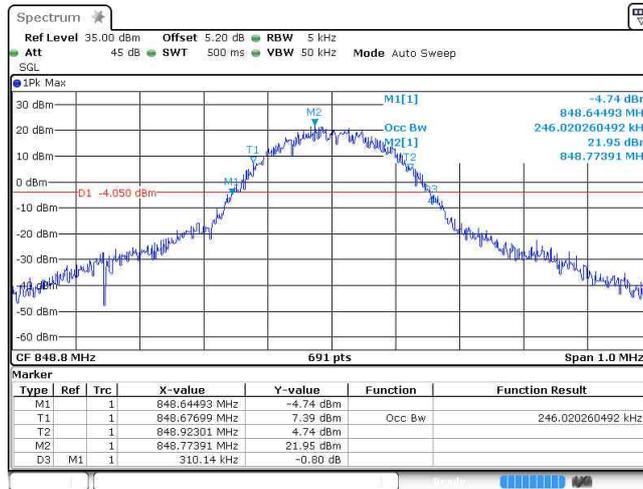
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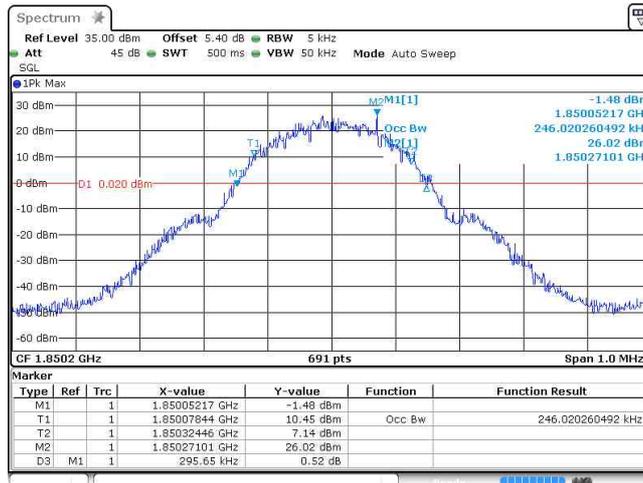


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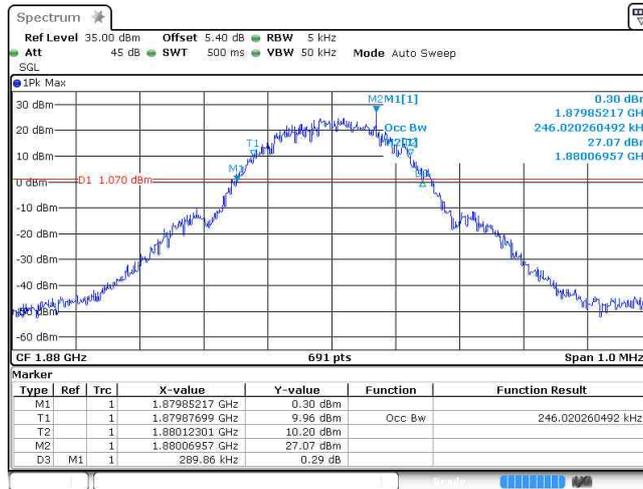
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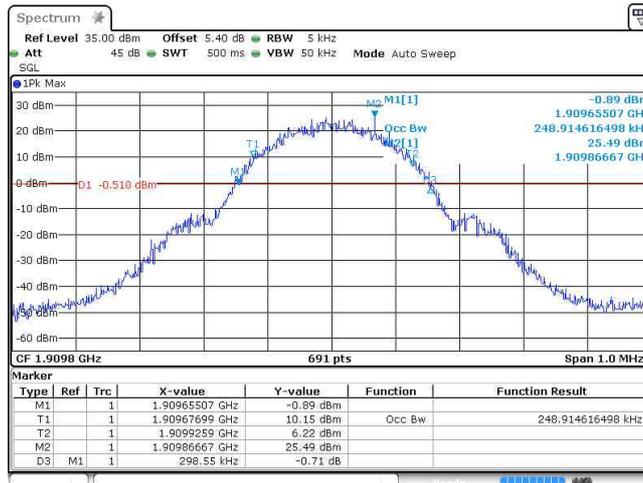


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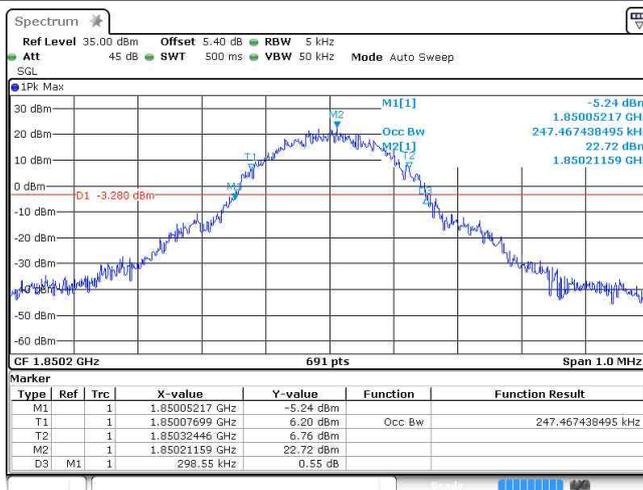
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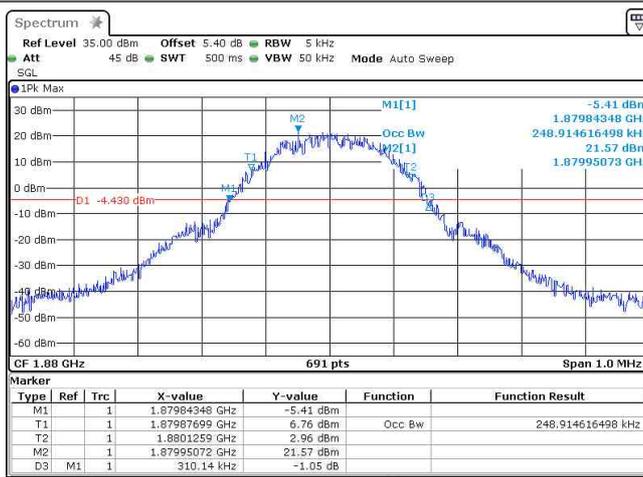


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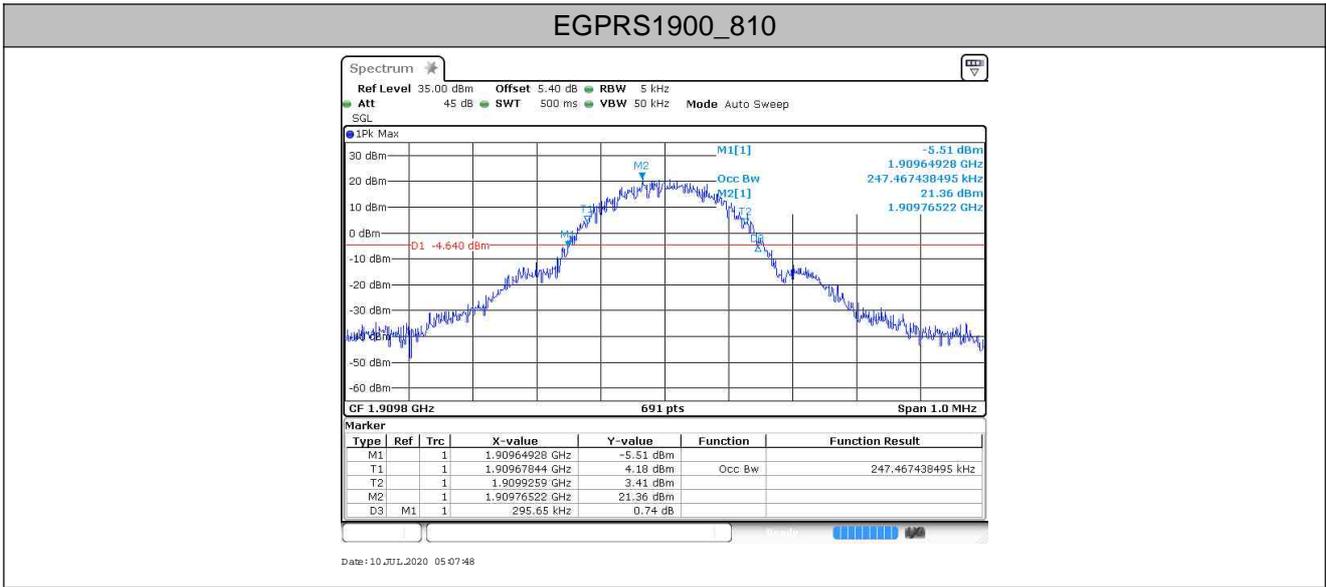
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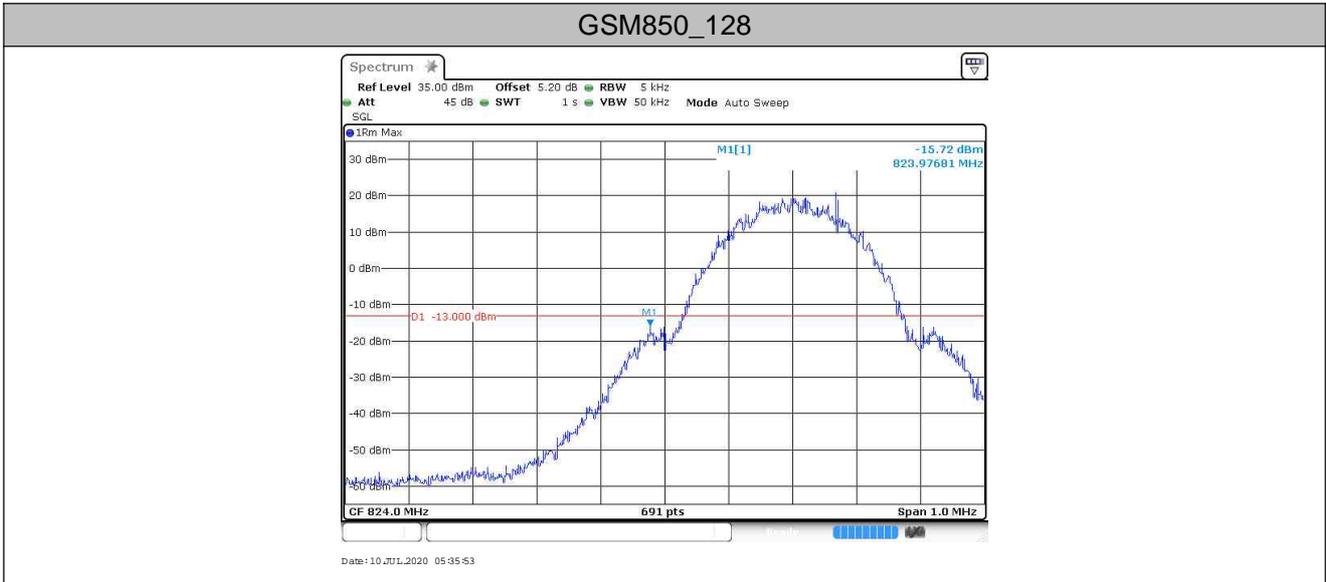
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5. Band Edge Compliance

5.1. Test Plots



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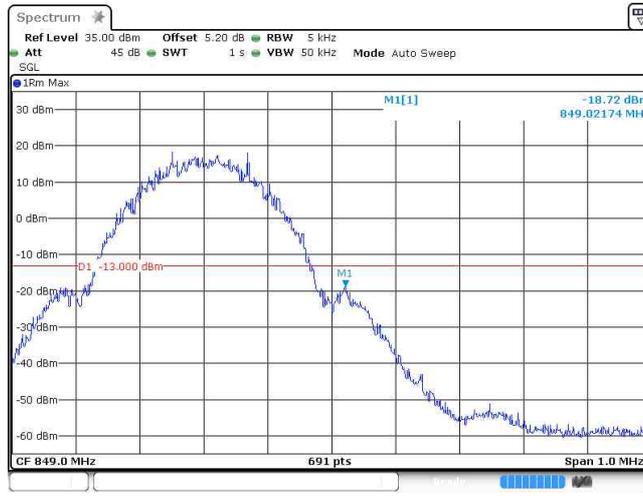
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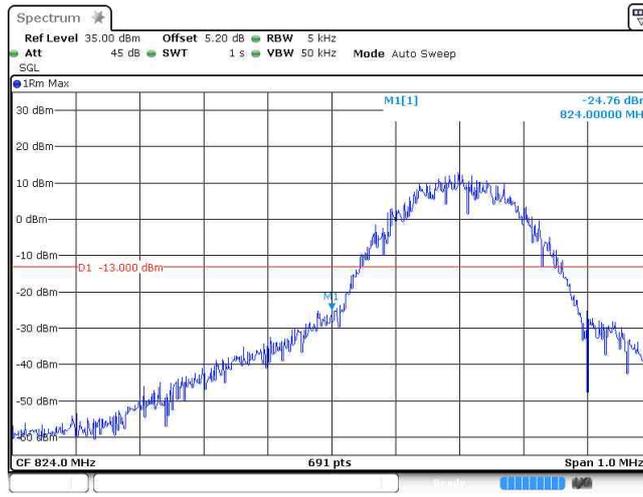


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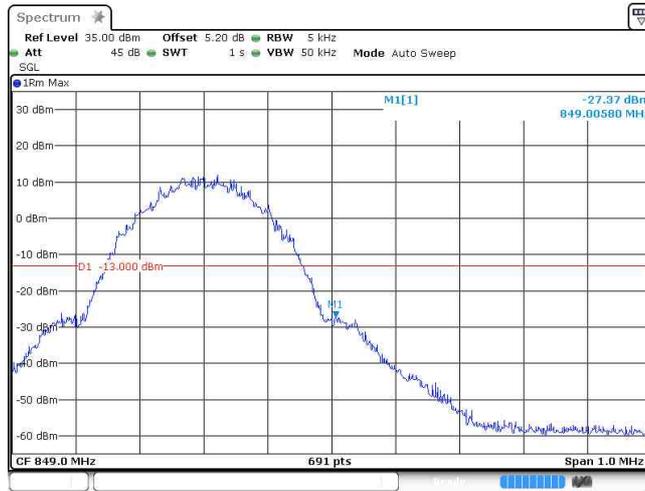
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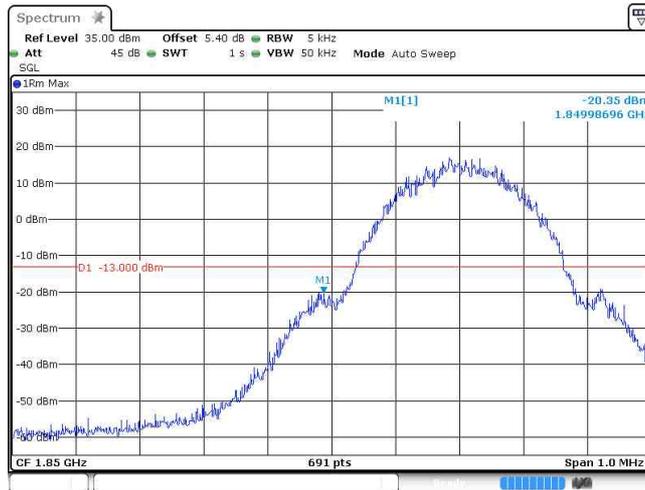


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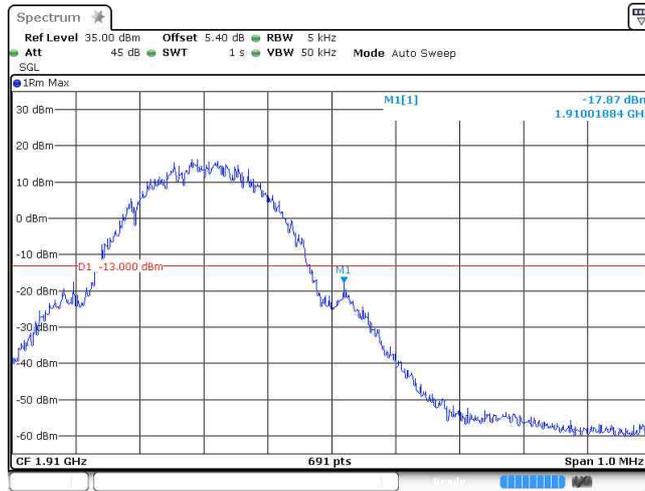
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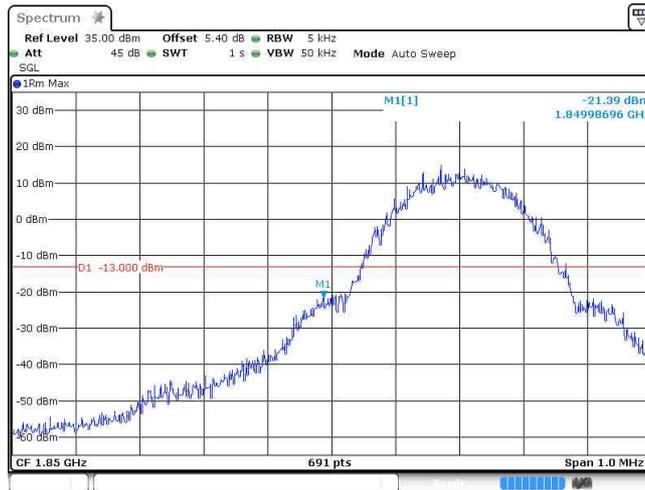
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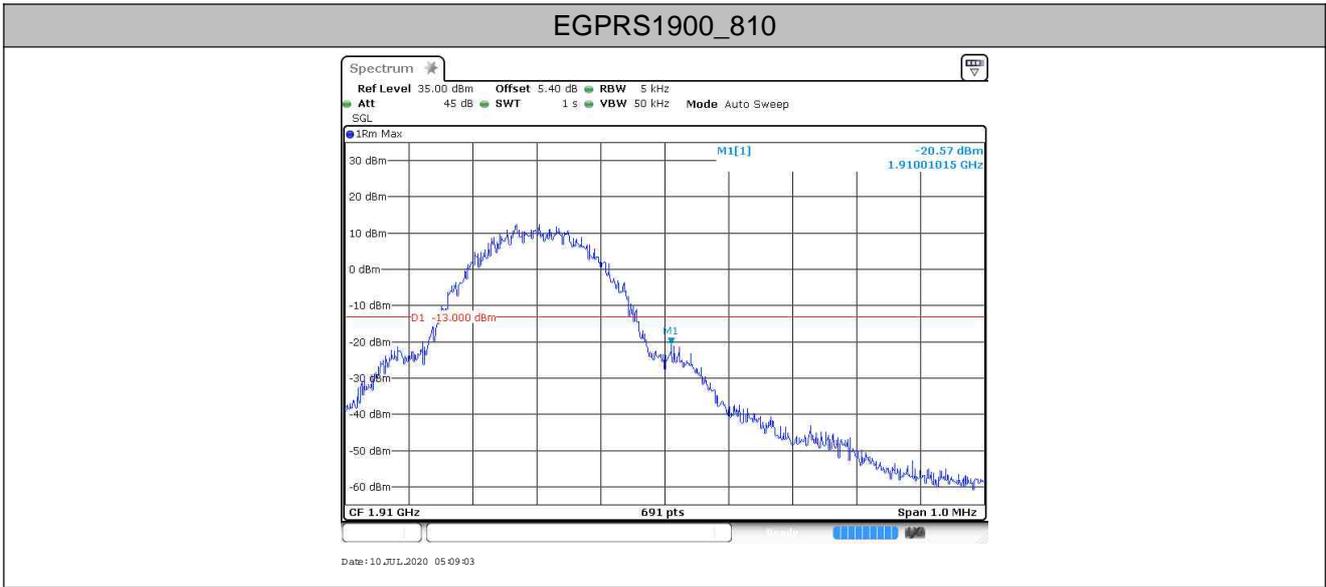
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6. Spurious Emission at Antenna Terminal

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



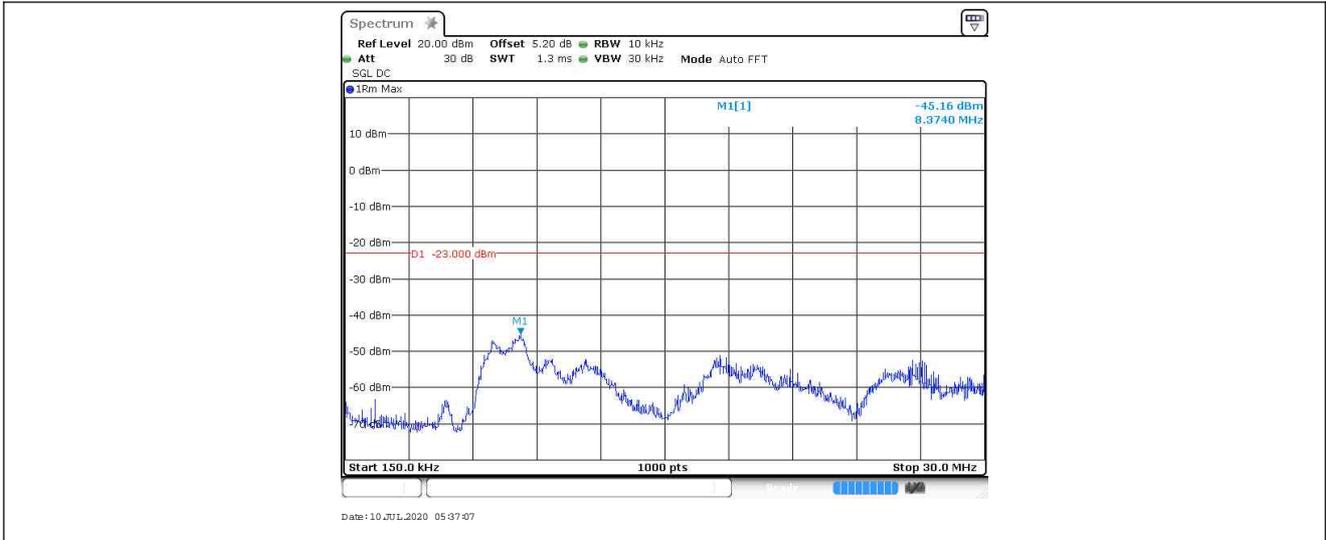
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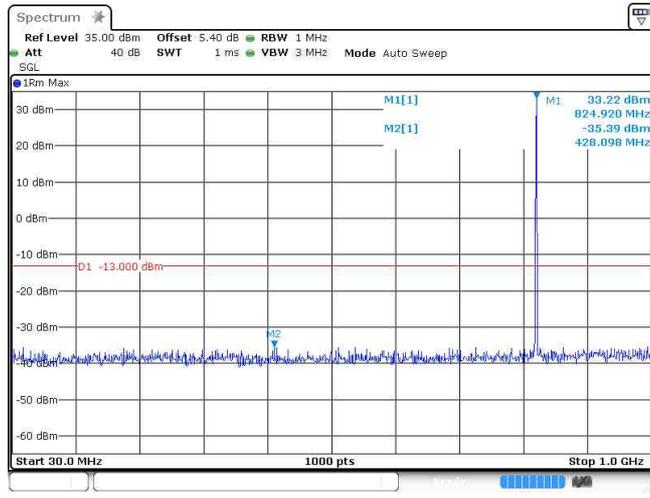
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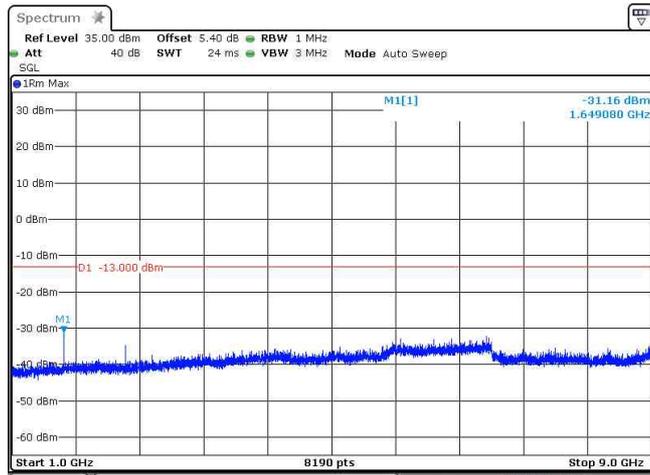


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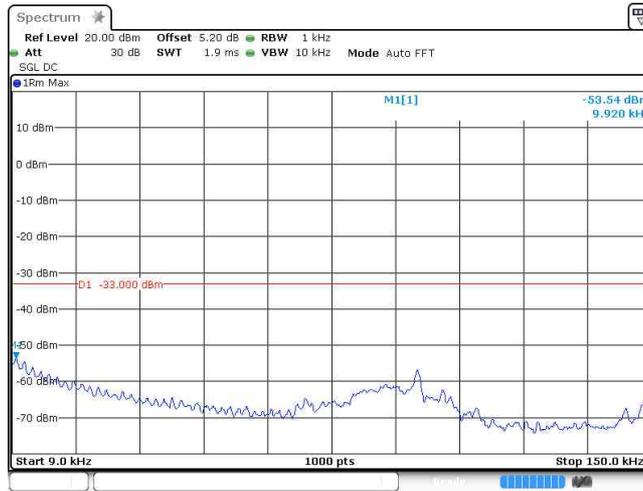
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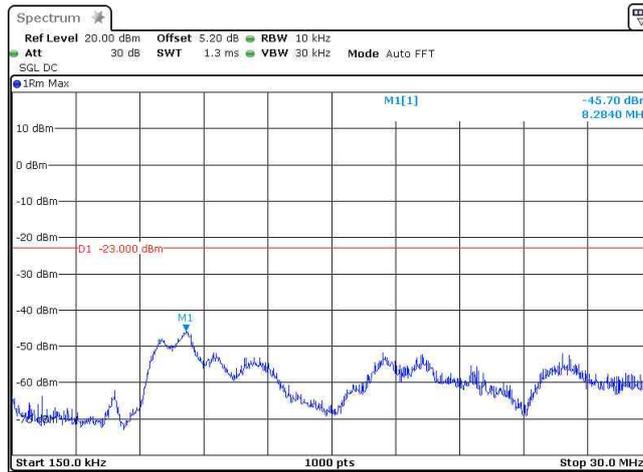


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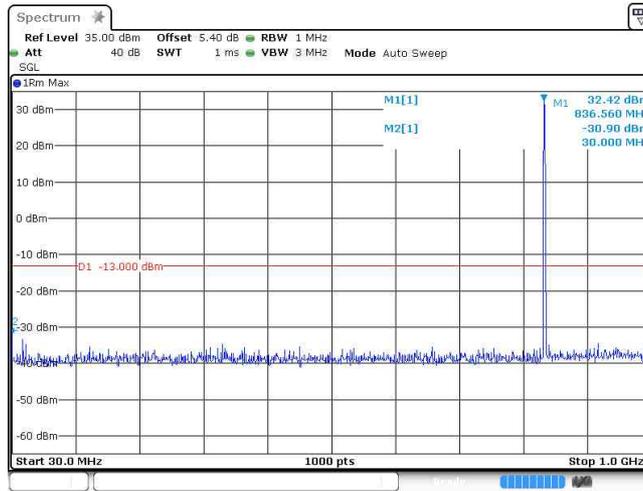
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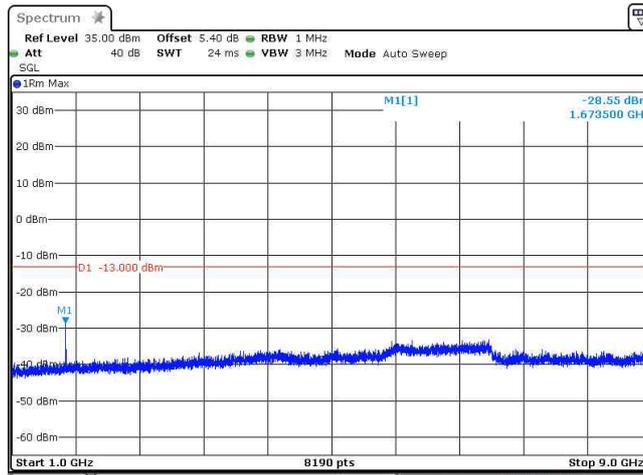


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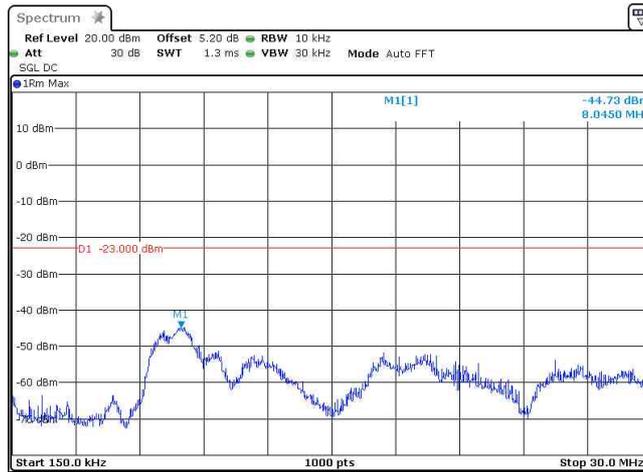


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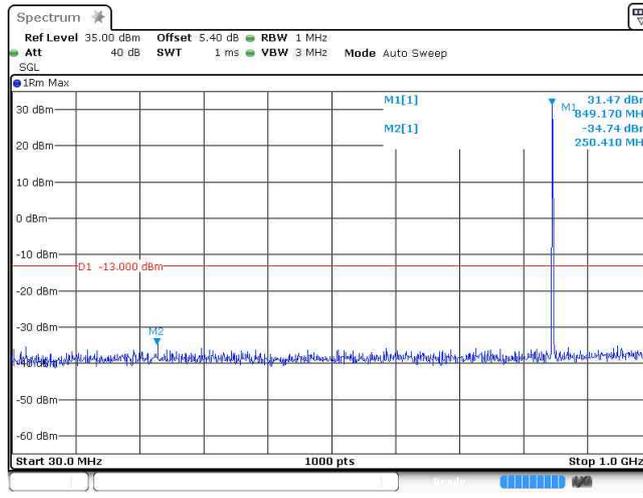
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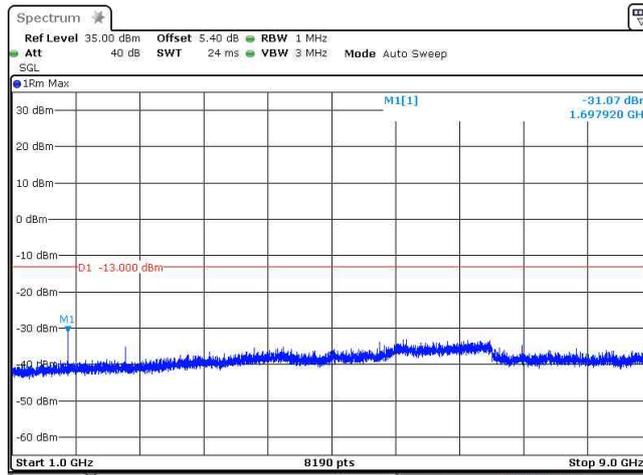


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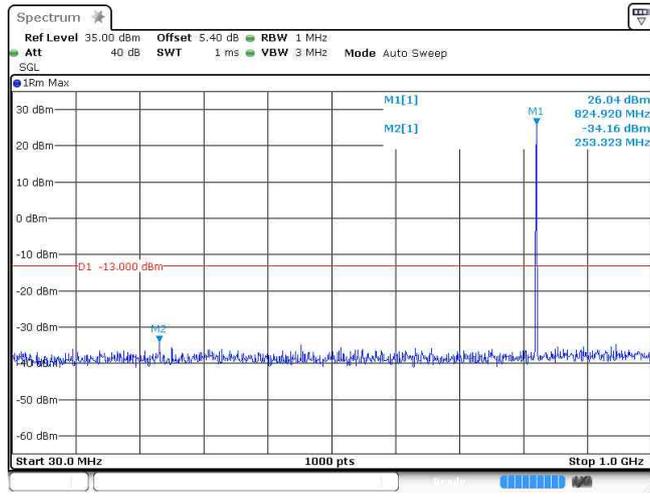
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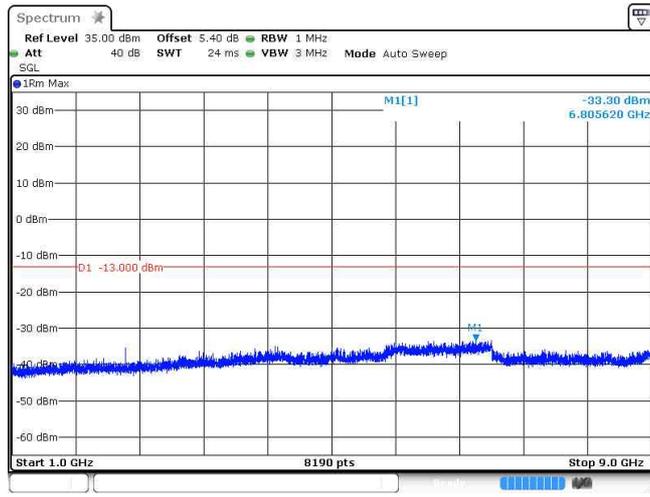


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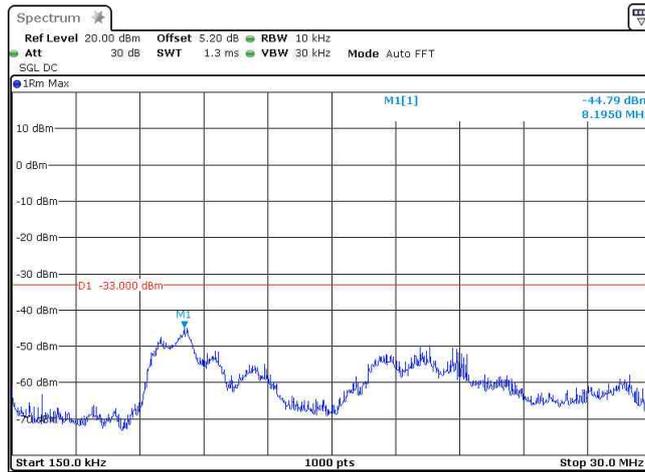


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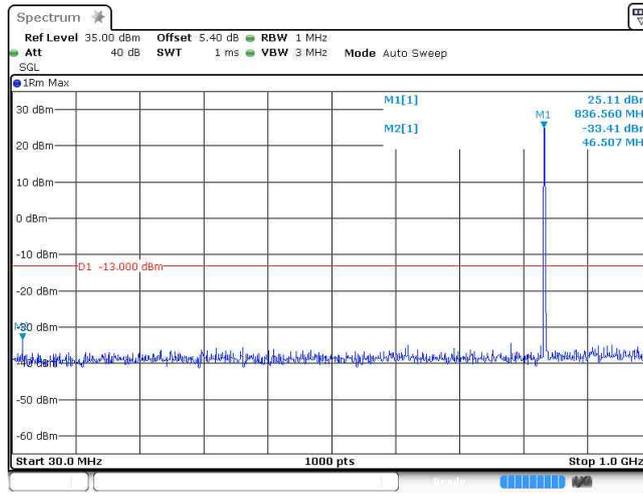
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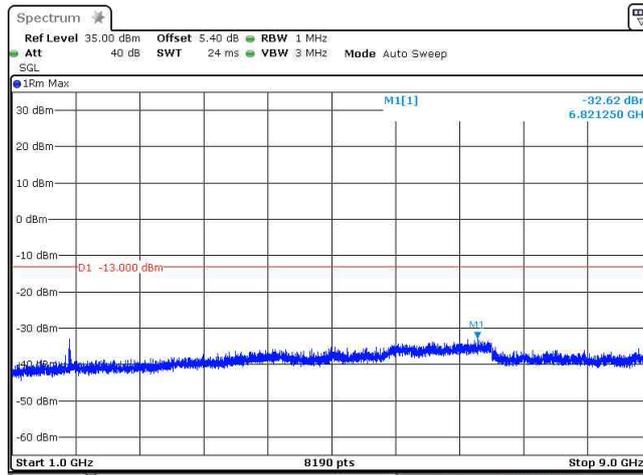


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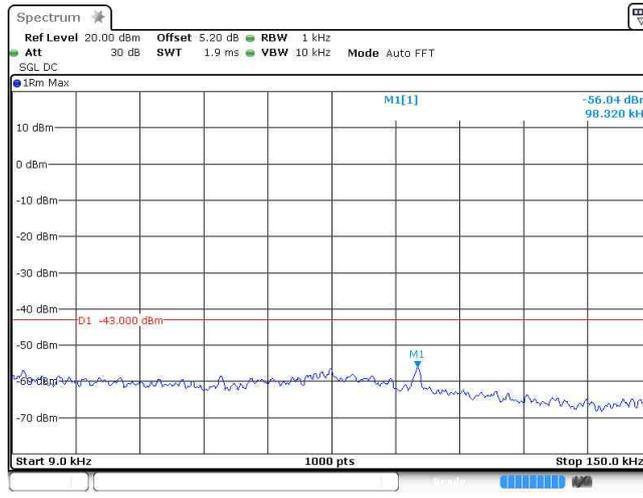
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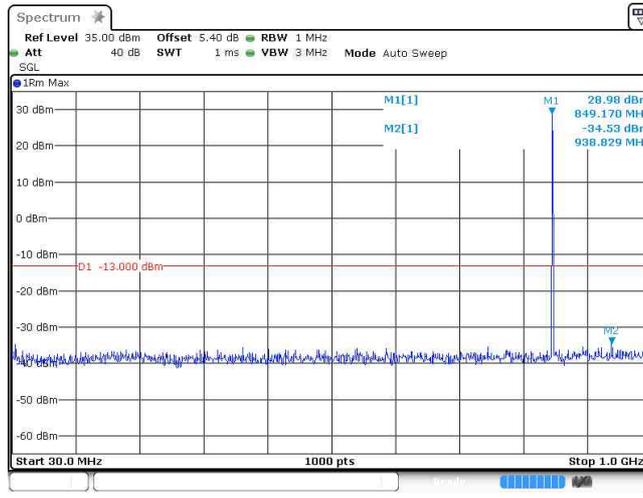
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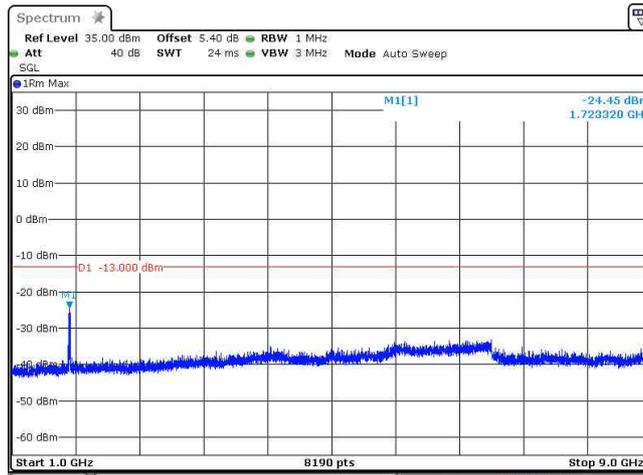


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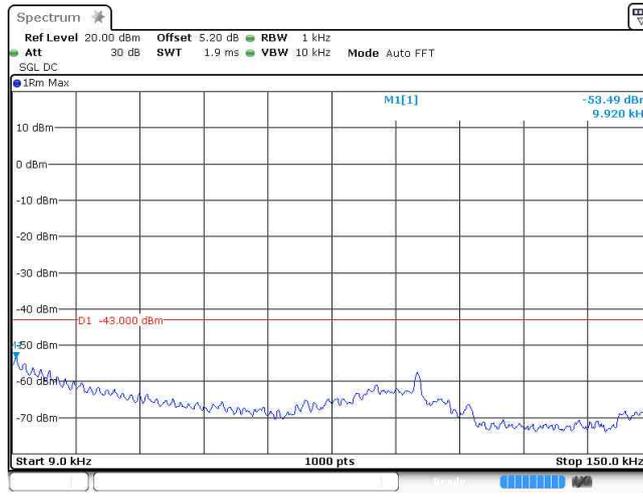
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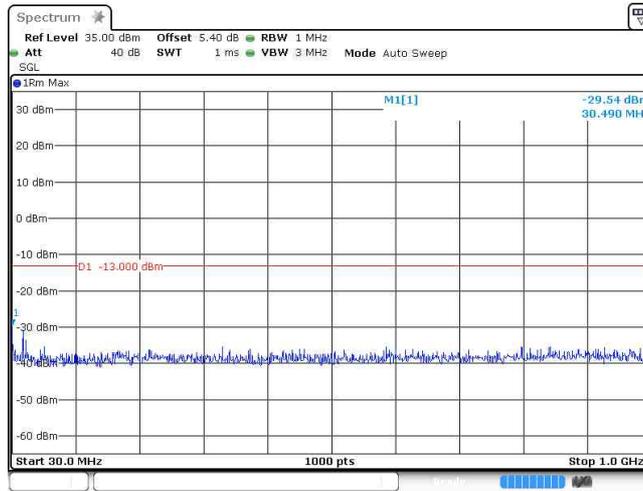
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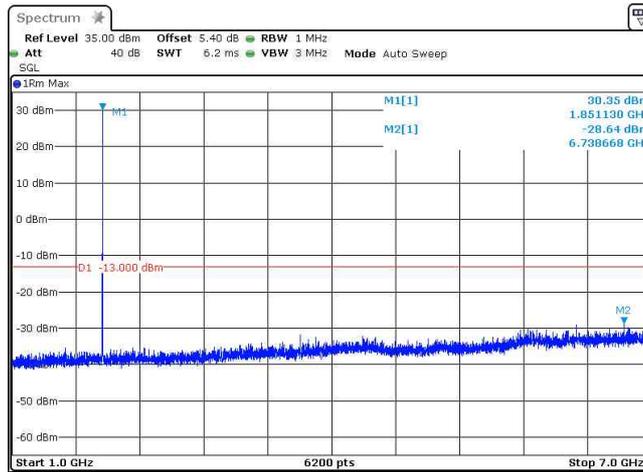


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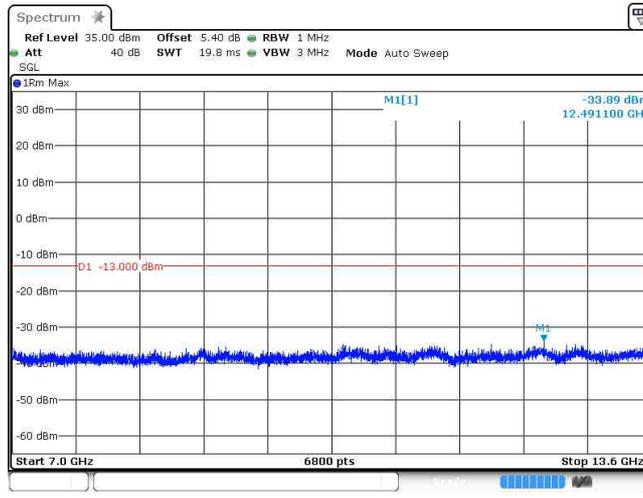
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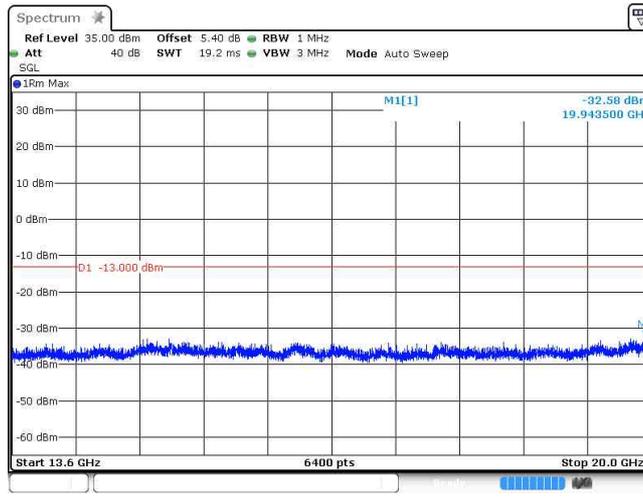


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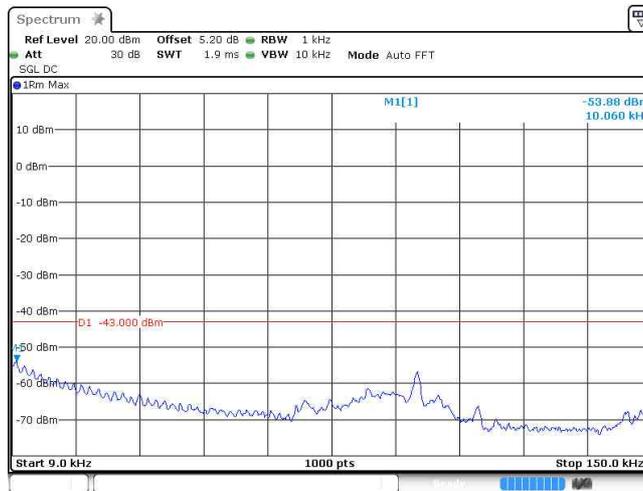
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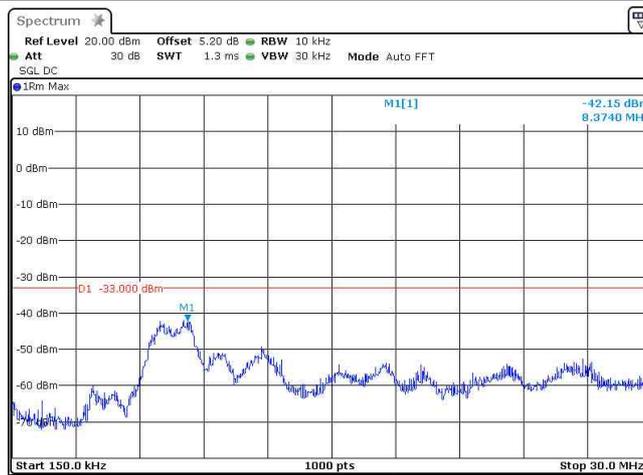


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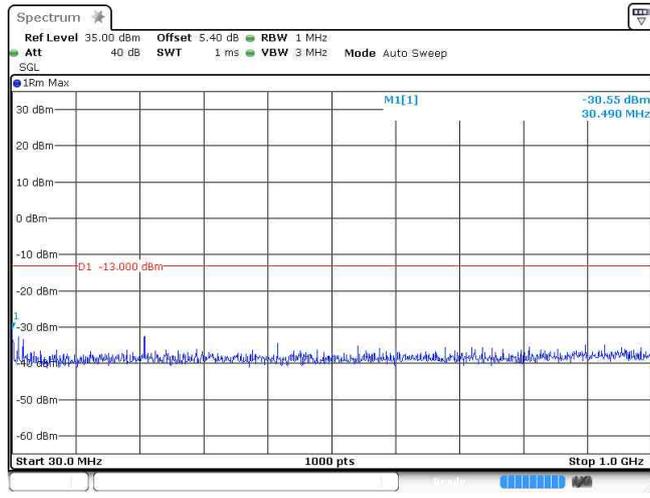
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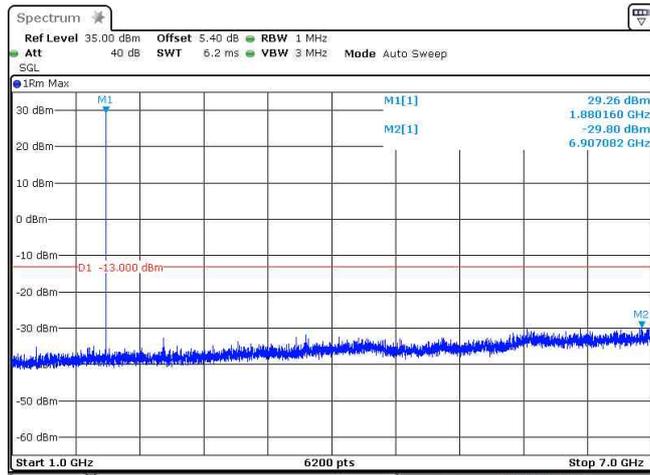


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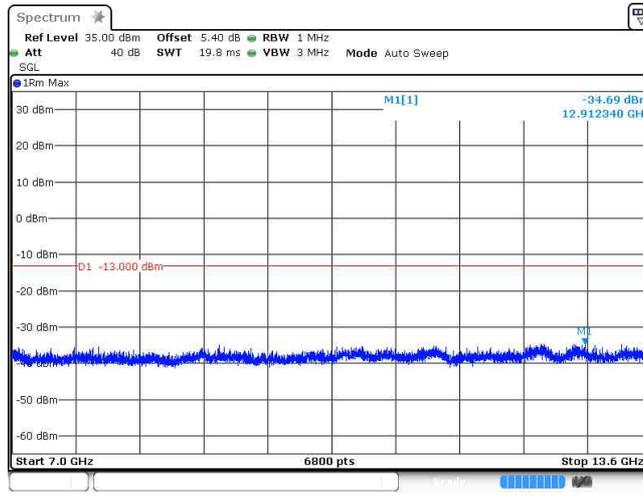
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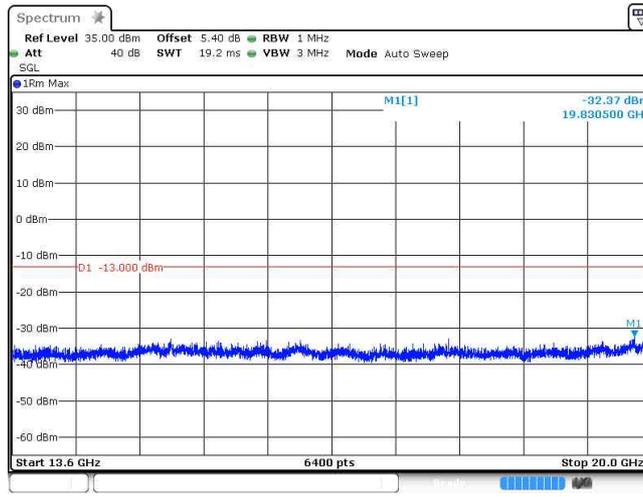


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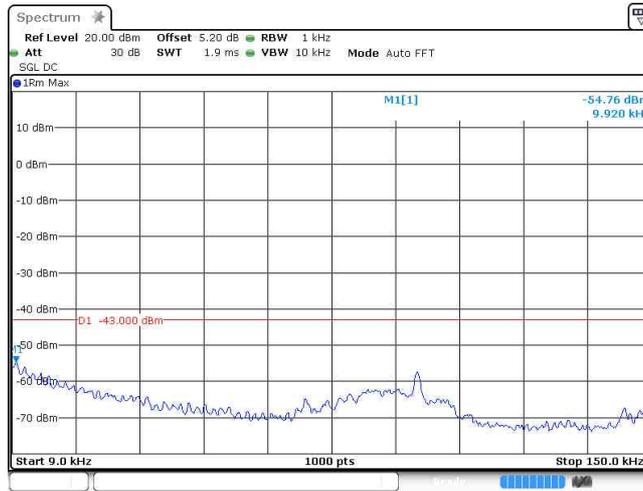
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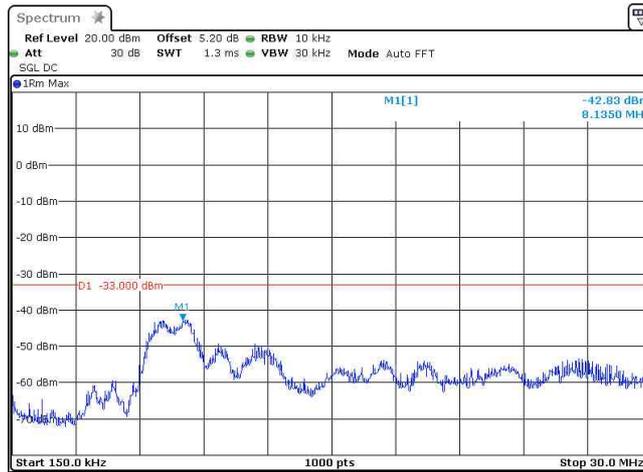


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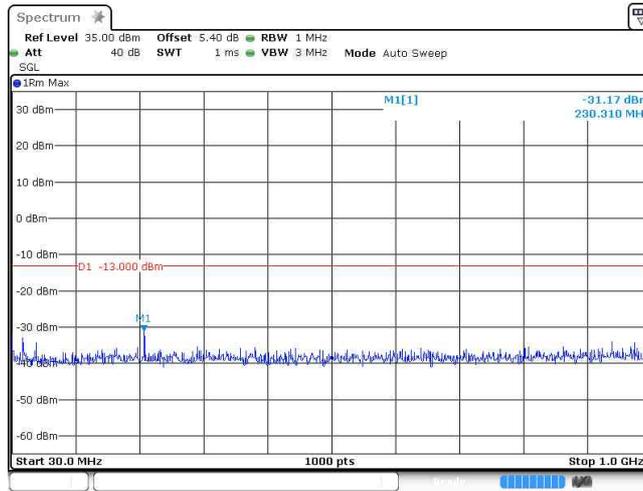
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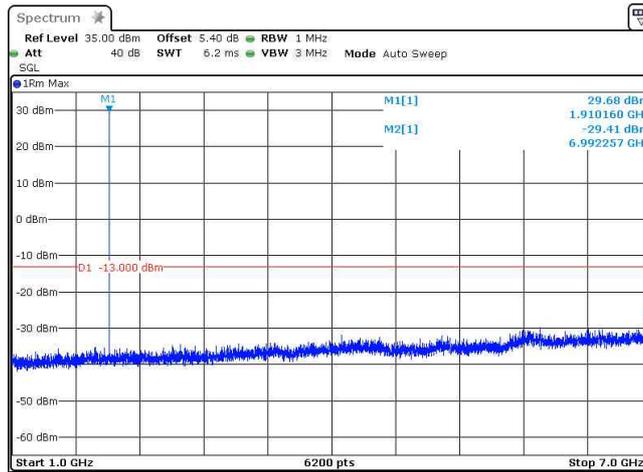


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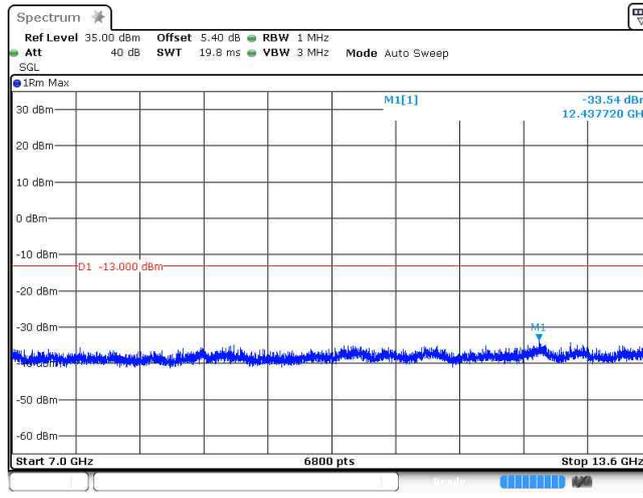
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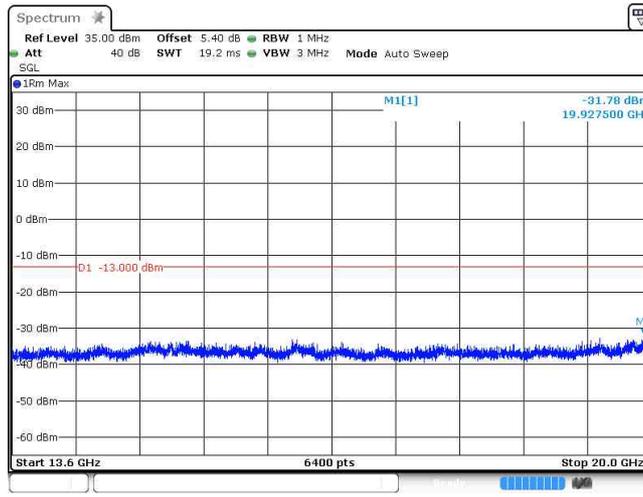


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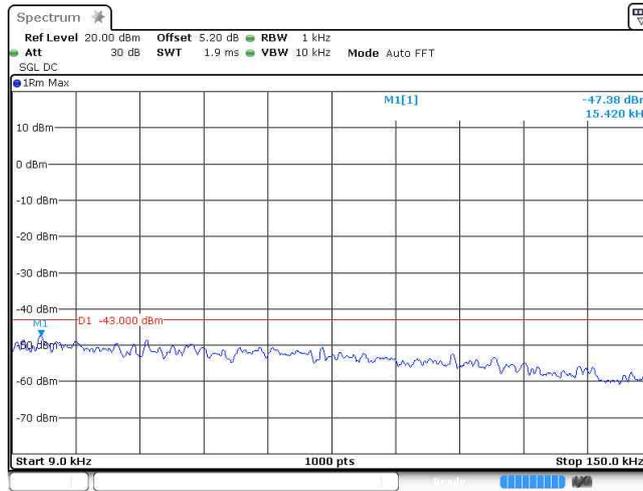
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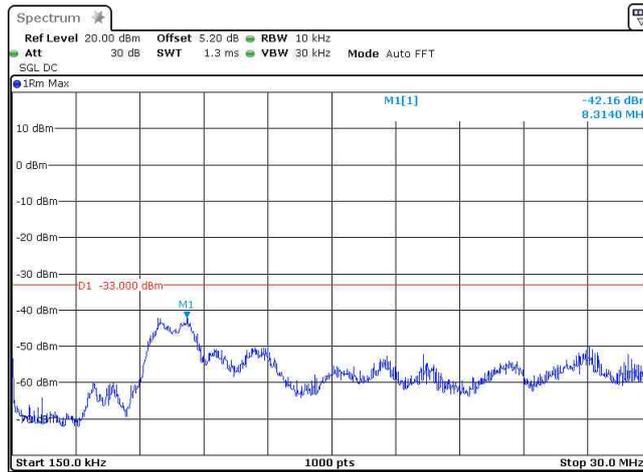


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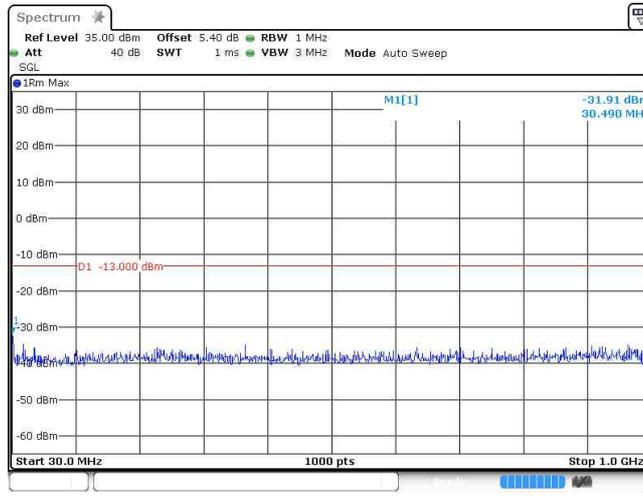
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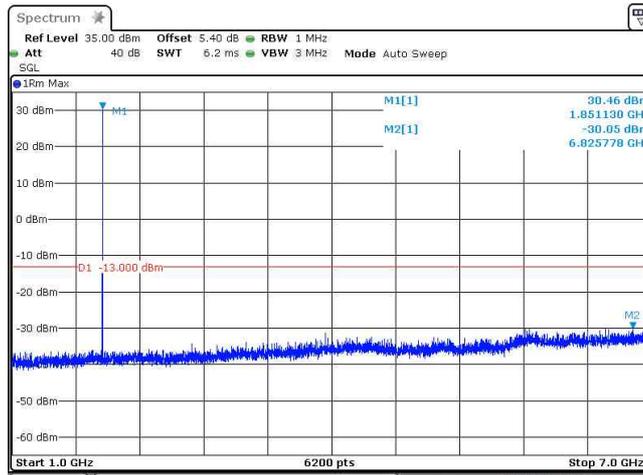


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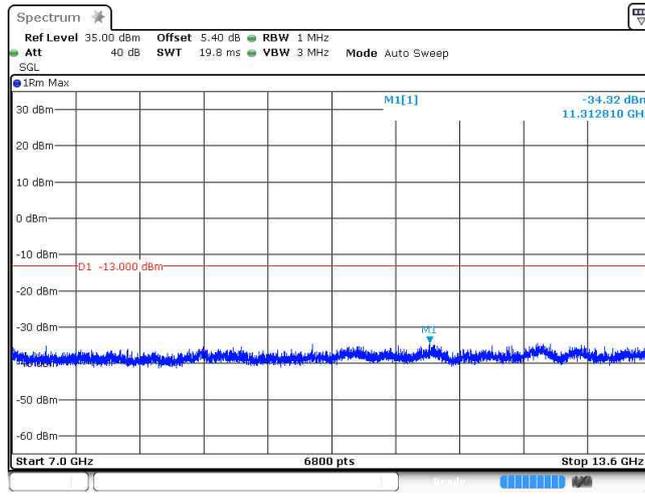
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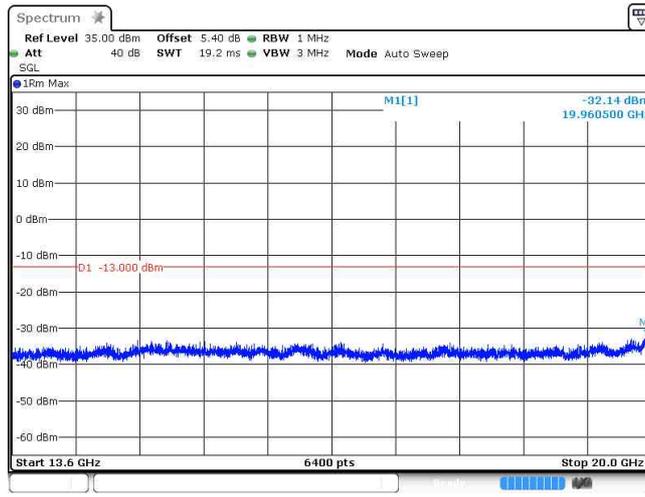
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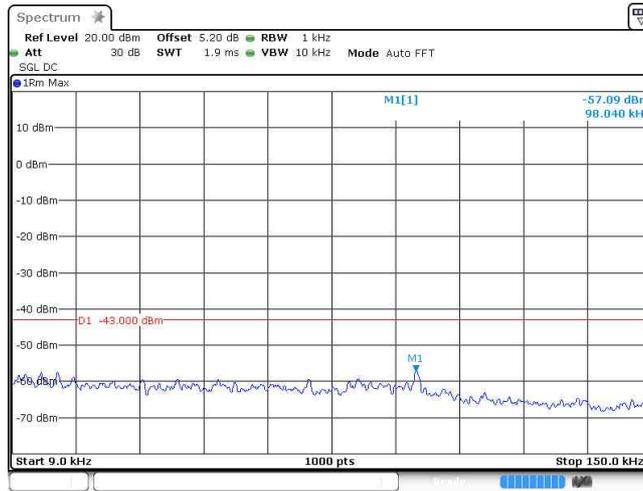
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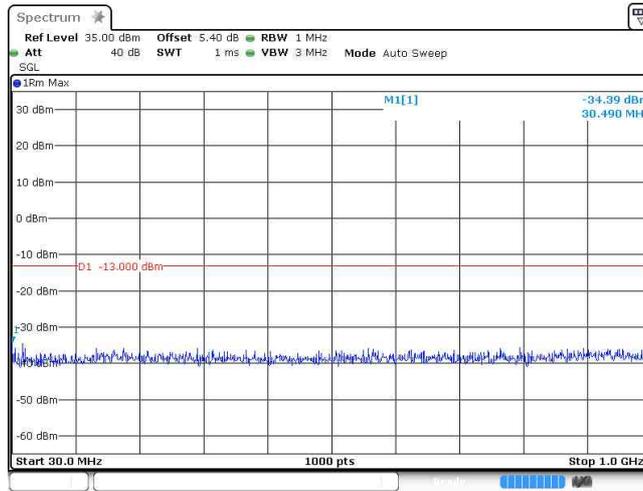
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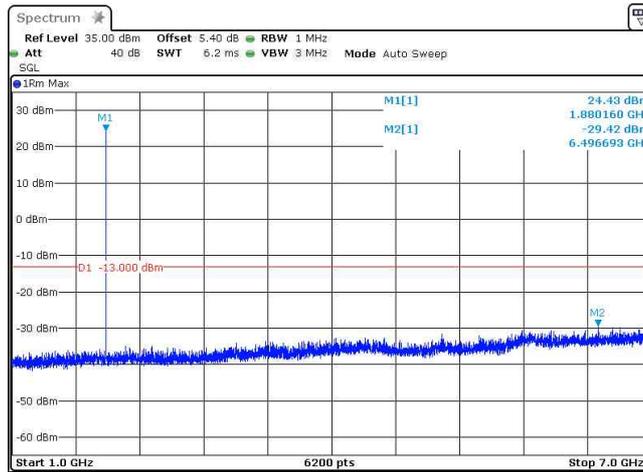


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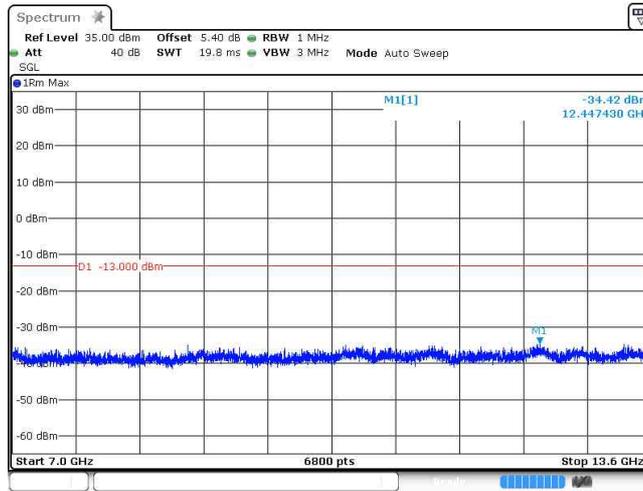
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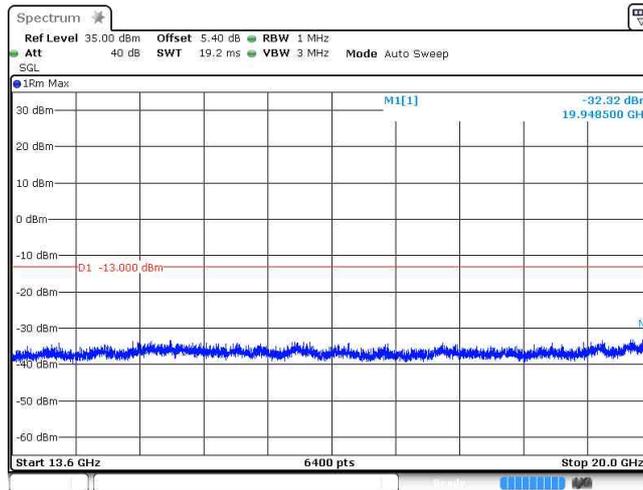


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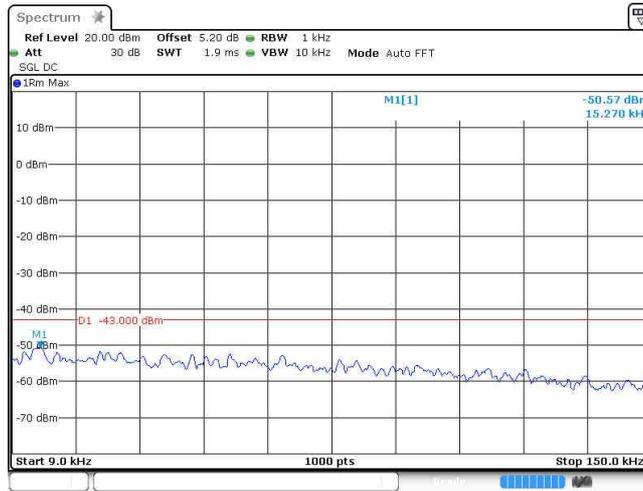
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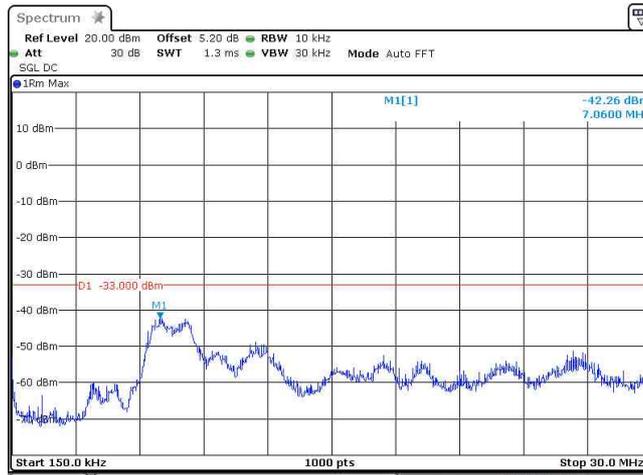


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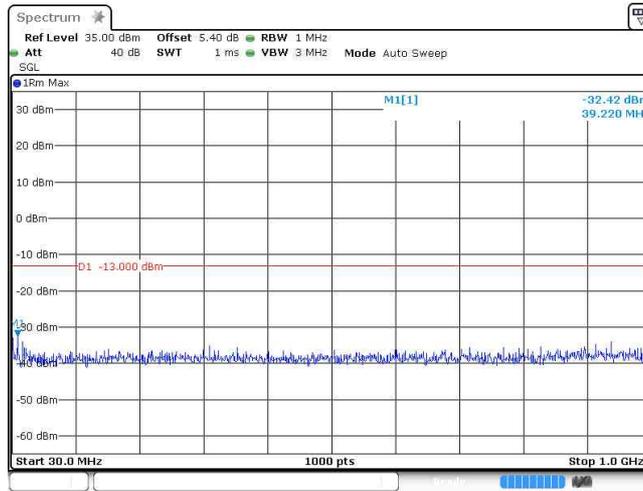
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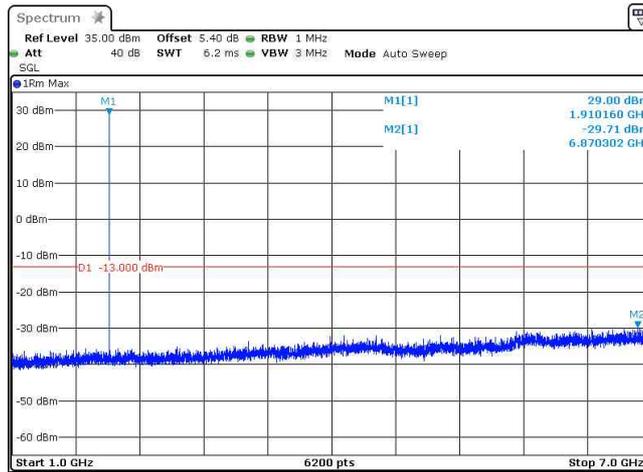


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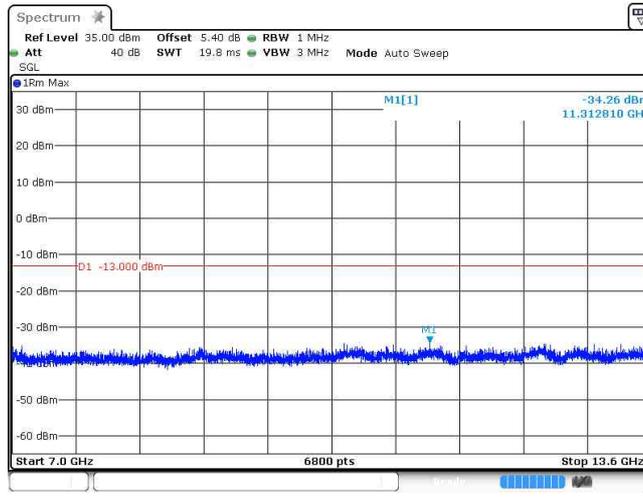
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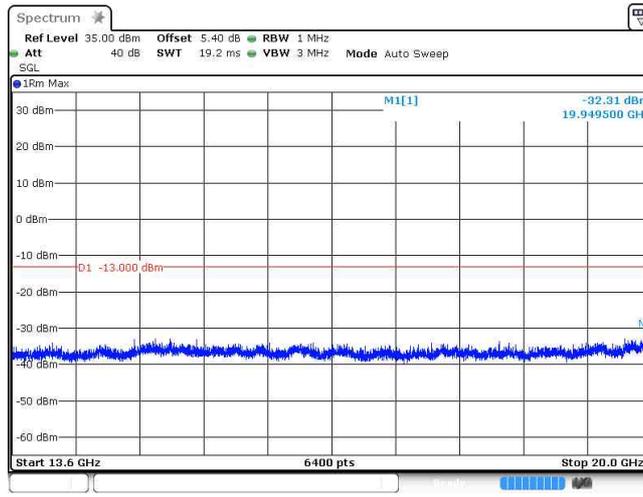


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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 110.8050 | -64.61 | -13.00 | 51.61 | Vertical |
| 2699.5399 | -37.54 | -13.00 | 24.54 | Vertical |
| 3700.5234 | -43.97 | -13.00 | 30.97 | Vertical |
| 5550.5850 | -52.38 | -13.00 | 39.38 | Vertical |
| 14502.8834 | -47.06 | -13.00 | 34.06 | Vertical |
| 17999.0000 | -39.02 | -13.00 | 26.02 | Vertical |
| 44.3082 | -62.91 | -13.00 | 49.91 | Horizontal |
| 2699.9400 | -36.32 | -13.00 | 23.32 | Horizontal |
| 3700.5234 | -49.08 | -13.00 | 36.08 | Horizontal |
| 5550.5850 | -52.60 | -13.00 | 39.60 | Horizontal |
| 16397.9466 | -43.12 | -13.00 | 30.12 | Horizontal |
| 17998.5000 | -44.19 | -13.00 | 31.19 | Horizontal |

7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 111.7751 | -63.80 | -13.00 | 50.80 | Vertical |
| 2705.9412 | -37.52 | -13.00 | 24.52 | Vertical |
| 3760.0253 | -46.87 | -13.00 | 33.87 | Vertical |
| 5640.0880 | -49.25 | -13.00 | 36.25 | Vertical |
| 14701.8901 | -47.16 | -13.00 | 34.16 | Vertical |
| 17998.5000 | -39.22 | -13.00 | 26.22 | Vertical |
| 41.6891 | -63.93 | -13.00 | 50.93 | Horizontal |
| 2703.5407 | -36.43 | -13.00 | 23.43 | Horizontal |
| 3760.0253 | -45.64 | -13.00 | 32.64 | Horizontal |
| 5640.0880 | -48.19 | -13.00 | 35.19 | Horizontal |
| 16395.4465 | -43.31 | -13.00 | 30.31 | Horizontal |
| 17999.5000 | -44.53 | -13.00 | 31.53 | Horizontal |

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7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 112.5996 | -64.55 | -13.00 | 51.55 | Vertical |
| 2701.5403 | -37.64 | -13.00 | 24.64 | Vertical |
| 3819.5273 | -49.67 | -13.00 | 36.67 | Vertical |
| 5729.0910 | -48.47 | -13.00 | 35.47 | Vertical |
| 14520.8840 | -47.38 | -13.00 | 34.38 | Vertical |
| 17994.4998 | -38.63 | -13.00 | 25.63 | Vertical |
| 41.3011 | -63.83 | -13.00 | 50.83 | Horizontal |
| 2681.5363 | -36.95 | -13.00 | 23.95 | Horizontal |
| 3819.5273 | -48.65 | -13.00 | 35.65 | Horizontal |
| 5729.5910 | -47.20 | -13.00 | 34.20 | Horizontal |
| 16397.9466 | -43.31 | -13.00 | 30.31 | Horizontal |
| 17989.9997 | -44.26 | -13.00 | 31.26 | Horizontal |

7.2. Test Band = GSM 850

7.2.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 109.3015 | -63.66 | -13.00 | 50.66 | Vertical |
| 1648.5297 | -44.93 | -13.00 | 31.93 | Vertical |
| 2472.6945 | -40.56 | -13.00 | 27.56 | Vertical |
| 3297.0099 | -60.50 | -13.00 | 47.50 | Vertical |
| 14488.3829 | -47.37 | -13.00 | 34.37 | Vertical |
| 17999.5000 | -39.73 | -13.00 | 26.73 | Vertical |
| 40.3795 | -63.68 | -13.00 | 50.68 | Horizontal |
| 1648.5297 | -47.48 | -13.00 | 34.48 | Horizontal |
| 2472.6945 | -43.89 | -13.00 | 30.89 | Horizontal |
| 3297.0099 | -50.19 | -13.00 | 37.19 | Horizontal |
| 16387.9463 | -43.25 | -13.00 | 30.25 | Horizontal |
| 17997.4999 | -44.14 | -13.00 | 31.14 | Horizontal |

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7.2.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 110.4170 | -64.11 | -13.00 | 51.11 | Vertical |
| 1672.9346 | -43.62 | -13.00 | 30.62 | Vertical |
| 2509.9020 | -42.37 | -13.00 | 29.37 | Vertical |
| 3346.5116 | -61.01 | -13.00 | 48.01 | Vertical |
| 14483.3828 | -46.74 | -13.00 | 33.74 | Vertical |
| 17996.9999 | -39.78 | -13.00 | 26.78 | Vertical |
| 41.2041 | -63.45 | -13.00 | 50.45 | Horizontal |
| 1673.3347 | -43.16 | -13.00 | 30.16 | Horizontal |
| 2509.9020 | -42.02 | -13.00 | 29.02 | Horizontal |
| 3346.5116 | -55.45 | -13.00 | 42.45 | Horizontal |
| 16403.9468 | -43.05 | -13.00 | 30.05 | Horizontal |
| 17995.4999 | -44.30 | -13.00 | 31.30 | Horizontal |

7.2.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 111.0961 | -64.40 | -13.00 | 51.40 | Vertical |
| 1697.7395 | -47.26 | -13.00 | 34.26 | Vertical |
| 2546.3093 | -42.82 | -13.00 | 29.82 | Vertical |
| 3395.5132 | -63.22 | -13.00 | 50.22 | Vertical |
| 14682.3894 | -47.05 | -13.00 | 34.05 | Vertical |
| 17998.5000 | -39.53 | -13.00 | 26.53 | Vertical |
| 44.9387 | -64.00 | -13.00 | 51.00 | Horizontal |
| 1697.3395 | -43.98 | -13.00 | 30.98 | Horizontal |
| 2546.3093 | -40.88 | -13.00 | 27.88 | Horizontal |
| 3395.0132 | -58.63 | -13.00 | 45.63 | Horizontal |
| 16393.9465 | -43.41 | -13.00 | 30.41 | Horizontal |
| 17995.9999 | -43.75 | -13.00 | 30.75 | 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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3)

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 | 10.35 | 0.012558 | ±2.5 | PASS |
| GSM850 | 128 | VN | TN | 13.67 | 0.016580 | ±2.5 | PASS |
| GSM850 | 128 | VH | TN | 4.62 | 0.005602 | ±2.5 | PASS |
| GSM850 | 190 | VL | TN | -2.37 | -0.002838 | ±2.5 | PASS |
| GSM850 | 190 | VN | TN | -12.73 | -0.015211 | ±2.5 | PASS |
| GSM850 | 190 | VH | TN | -4.84 | -0.005781 | ±2.5 | PASS |
| GSM850 | 251 | VL | TN | 6.80 | 0.008009 | ±2.5 | PASS |
| GSM850 | 251 | VN | TN | 6.87 | 0.008089 | ±2.5 | PASS |
| GSM850 | 251 | VH | TN | 8.96 | 0.010559 | ±2.5 | PASS |
| EGPRS850 | 128 | VL | TN | 14.18 | 0.017201 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | TN | 12.87 | 0.015614 | ±2.5 | PASS |
| EGPRS850 | 128 | VH | TN | 0.53 | 0.000648 | ±2.5 | PASS |
| EGPRS850 | 190 | VL | TN | 3.02 | 0.003606 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | TN | 14.00 | 0.016734 | ±2.5 | PASS |
| EGPRS850 | 190 | VH | TN | 1.50 | 0.001795 | ±2.5 | PASS |
| EGPRS850 | 251 | VL | TN | 3.31 | 0.003901 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | TN | -8.08 | -0.009520 | ±2.5 | PASS |
| EGPRS850 | 251 | VH | TN | -0.11 | -0.000124 | ±2.5 | PASS |
| GSM1900 | 512 | VL | TN | 0.09 | 0.000047 | ±2.5 | PASS |
| GSM1900 | 512 | VN | TN | 12.74 | 0.006884 | ±2.5 | PASS |
| GSM1900 | 512 | VH | TN | 10.52 | 0.005688 | ±2.5 | PASS |
| GSM1900 | 661 | VL | TN | -9.77 | -0.005198 | ±2.5 | PASS |
| GSM1900 | 661 | VN | TN | -0.44 | -0.000236 | ±2.5 | PASS |
| GSM1900 | 661 | VH | TN | 4.61 | 0.002454 | ±2.5 | PASS |
| GSM1900 | 810 | VL | TN | -12.52 | -0.006554 | ±2.5 | PASS |
| GSM1900 | 810 | VN | TN | 9.25 | 0.004843 | ±2.5 | PASS |

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| | | | | | | | |
|-----------|-----|----|----|--------|-----------|------|------|
| GSM1900 | 810 | VH | TN | 10.46 | 0.005476 | ±2.5 | PASS |
| EGPRS1900 | 512 | VL | TN | -6.69 | -0.003616 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | TN | -14.22 | -0.007688 | ±2.5 | PASS |
| EGPRS1900 | 512 | VH | TN | 5.32 | 0.002875 | ±2.5 | PASS |
| EGPRS1900 | 661 | VL | TN | -0.36 | -0.000194 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | TN | -13.70 | -0.007289 | ±2.5 | PASS |
| EGPRS1900 | 661 | VH | TN | 4.59 | 0.002439 | ±2.5 | PASS |
| EGPRS1900 | 810 | VL | TN | -12.24 | -0.006408 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | TN | 4.38 | 0.002296 | ±2.5 | PASS |
| EGPRS1900 | 810 | VH | TN | -14.90 | -0.007803 | ±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 | VN | -30 | 2.56 | 0.003106 | ±2.5 | PASS |
| GSM850 | 128 | VN | -20 | 3.34 | 0.004052 | ±2.5 | PASS |
| GSM850 | 128 | VN | -10 | -9.36 | -0.011353 | ±2.5 | PASS |
| GSM850 | 128 | VN | 0 | 6.12 | 0.007429 | ±2.5 | PASS |
| GSM850 | 128 | VN | 10 | 5.72 | 0.006938 | ±2.5 | PASS |
| GSM850 | 128 | VN | 20 | 0.94 | 0.001143 | ±2.5 | PASS |
| GSM850 | 128 | VN | 30 | -3.86 | -0.004678 | ±2.5 | PASS |
| GSM850 | 128 | VN | 40 | 13.41 | 0.016273 | ±2.5 | PASS |
| GSM850 | 128 | VN | 50 | 14.77 | 0.017925 | ±2.5 | PASS |
| GSM850 | 190 | VN | -30 | 9.50 | 0.011355 | ±2.5 | PASS |
| GSM850 | 190 | VN | -20 | 12.36 | 0.014780 | ±2.5 | PASS |
| GSM850 | 190 | VN | -10 | -4.38 | -0.005231 | ±2.5 | PASS |
| GSM850 | 190 | VN | 0 | 10.37 | 0.012394 | ±2.5 | PASS |
| GSM850 | 190 | VN | 10 | 7.68 | 0.009184 | ±2.5 | PASS |
| GSM850 | 190 | VN | 20 | -9.18 | -0.010976 | ±2.5 | PASS |
| GSM850 | 190 | VN | 30 | 11.24 | 0.013438 | ±2.5 | PASS |
| GSM850 | 190 | VN | 40 | 0.40 | 0.000472 | ±2.5 | PASS |
| GSM850 | 190 | VN | 50 | -5.08 | -0.006070 | ±2.5 | PASS |

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| | | | | | | | |
|----------|-----|----|-----|--------|-----------|------|------|
| GSM850 | 251 | VN | -30 | -1.92 | -0.002267 | ±2.5 | PASS |
| GSM850 | 251 | VN | -20 | 1.53 | 0.001799 | ±2.5 | PASS |
| GSM850 | 251 | VN | -10 | -0.51 | -0.000605 | ±2.5 | PASS |
| GSM850 | 251 | VN | 0 | 3.29 | 0.003873 | ±2.5 | PASS |
| GSM850 | 251 | VN | 10 | 14.47 | 0.017052 | ±2.5 | PASS |
| GSM850 | 251 | VN | 20 | -10.21 | -0.012033 | ±2.5 | PASS |
| GSM850 | 251 | VN | 30 | 12.50 | 0.014726 | ±2.5 | PASS |
| GSM850 | 251 | VN | 40 | -11.85 | -0.013965 | ±2.5 | PASS |
| GSM850 | 251 | VN | 50 | 7.25 | 0.008541 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | -30 | 3.82 | 0.004630 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | -20 | 9.54 | 0.011572 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | -10 | -4.49 | -0.005449 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 0 | 7.12 | 0.008635 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 10 | -3.41 | -0.004134 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 20 | -10.77 | -0.013064 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 30 | 10.79 | 0.013095 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 40 | 7.37 | 0.008944 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 50 | 1.62 | 0.001971 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | -30 | 2.46 | 0.002944 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | -20 | 6.86 | 0.008198 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | -10 | 7.05 | 0.008423 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 0 | -12.90 | -0.015421 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 10 | 12.06 | 0.014413 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 20 | -4.57 | -0.005462 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 30 | 0.37 | 0.000437 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 40 | 4.30 | 0.005142 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 50 | -9.63 | -0.011509 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | -30 | -14.35 | -0.016909 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | -20 | 11.65 | 0.013731 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | -10 | 14.23 | 0.016760 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 0 | 7.22 | 0.008501 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 10 | -1.16 | -0.001366 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 20 | -6.02 | -0.007097 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 30 | 11.78 | 0.013873 | ±2.5 | PASS |

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|-----------|-----|----|-----|--------|-----------|------|------|
| EGPRS850 | 251 | VN | 40 | -8.47 | -0.009975 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 50 | 8.28 | 0.009756 | ±2.5 | PASS |
| GSM1900 | 512 | VN | -30 | 10.87 | 0.005873 | ±2.5 | PASS |
| GSM1900 | 512 | VN | -20 | -8.87 | -0.004795 | ±2.5 | PASS |
| GSM1900 | 512 | VN | -10 | -9.77 | -0.005281 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 0 | 5.73 | 0.003095 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 10 | -7.78 | -0.004205 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 20 | -5.36 | -0.002899 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 30 | -5.17 | -0.002793 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 40 | -11.91 | -0.006435 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 50 | 6.72 | 0.003630 | ±2.5 | PASS |
| GSM1900 | 661 | VN | -30 | 12.80 | 0.006809 | ±2.5 | PASS |
| GSM1900 | 661 | VN | -20 | 9.05 | 0.004816 | ±2.5 | PASS |
| GSM1900 | 661 | VN | -10 | -9.94 | -0.005287 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 0 | -11.16 | -0.005934 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 10 | 7.47 | 0.003976 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 20 | 7.50 | 0.003987 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 30 | -0.06 | -0.000032 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 40 | -12.43 | -0.006614 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 50 | 2.15 | 0.001143 | ±2.5 | PASS |
| GSM1900 | 810 | VN | -30 | -7.64 | -0.004002 | ±2.5 | PASS |
| GSM1900 | 810 | VN | -20 | 8.41 | 0.004404 | ±2.5 | PASS |
| GSM1900 | 810 | VN | -10 | 9.77 | 0.005116 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 0 | -3.91 | -0.002048 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 10 | 6.17 | 0.003230 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 20 | -6.38 | -0.003343 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 30 | 5.64 | 0.002953 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 40 | 9.58 | 0.005017 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 50 | 8.08 | 0.004230 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | -30 | -14.72 | -0.007955 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | -20 | -11.31 | -0.006112 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | -10 | -7.07 | -0.003823 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 0 | 13.01 | 0.007030 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 10 | -10.03 | -0.005423 | ±2.5 | PASS |

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| | | | | | | | |
|-----------|-----|----|-----|--------|-----------|------|------|
| EGPRS1900 | 512 | VN | 20 | -9.91 | -0.005354 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 30 | 14.65 | 0.007919 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 40 | -2.12 | -0.001147 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 50 | -6.50 | -0.003511 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | -30 | 9.33 | 0.004961 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | -20 | -14.54 | -0.007736 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | -10 | -1.32 | -0.000703 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 0 | 8.80 | 0.004680 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 10 | -3.25 | -0.001728 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 20 | -2.34 | -0.001243 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 30 | 8.44 | 0.004492 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 40 | 10.48 | 0.005574 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 50 | -14.50 | -0.007710 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | -30 | 9.33 | 0.004883 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | -20 | -0.56 | -0.000292 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | -10 | -13.26 | -0.006945 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 0 | -8.75 | -0.004580 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 10 | -3.19 | -0.001672 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 20 | -4.13 | -0.002164 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 30 | 6.56 | 0.003437 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 40 | 6.73 | 0.003526 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 50 | 6.39 | 0.003348 | ±2.5 | PASS |

The End

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