



Appendix B

GSM 850 & 1900



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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

| Band | Channel | Slot | Conducted Power (dBm) | ERP (dBm) | Limit(dBm) | Verdict |
|----------|---------|------|-----------------------|-----------|------------|---------|
| GSM850 | 128 | --- | 32.21 | 30.56 | 38.45 | PASS |
| GSM850 | 190 | --- | 32.34 | 30.69 | 38.45 | PASS |
| GSM850 | 251 | --- | 32.50 | 30.85 | 38.45 | PASS |
| EGPRS850 | 128 | 1 | 25.20 | 23.55 | 38.45 | PASS |
| EGPRS850 | 128 | 2 | 24.28 | 22.63 | 38.45 | PASS |
| EGPRS850 | 128 | 3 | 22.46 | 20.81 | 38.45 | PASS |
| EGPRS850 | 128 | 4 | 21.05 | 19.40 | 38.45 | PASS |
| EGPRS850 | 190 | 1 | 25.29 | 23.64 | 38.45 | PASS |
| EGPRS850 | 190 | 2 | 24.47 | 22.82 | 38.45 | PASS |
| EGPRS850 | 190 | 3 | 22.42 | 20.77 | 38.45 | PASS |
| EGPRS850 | 190 | 4 | 21.41 | 19.76 | 38.45 | PASS |
| EGPRS850 | 251 | 1 | 25.33 | 23.68 | 38.45 | PASS |
| EGPRS850 | 251 | 2 | 24.59 | 22.94 | 38.45 | PASS |
| EGPRS850 | 251 | 3 | 22.62 | 20.97 | 38.45 | PASS |
| EGPRS850 | 251 | 4 | 21.43 | 19.78 | 38.45 | PASS |

| Band | Channel | Slot | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|-----------|---------|------|-----------------------|------------|------------|---------|
| GSM1900 | 512 | --- | 30.84 | 31.84 | 33.00 | PASS |
| GSM1900 | 661 | --- | 30.74 | 31.74 | 33.00 | PASS |
| GSM1900 | 810 | --- | 30.25 | 31.25 | 33.00 | PASS |
| EGPRS1900 | 512 | 1 | 26.19 | 27.19 | 33.00 | PASS |
| EGPRS1900 | 512 | 2 | 25.40 | 26.40 | 33.00 | PASS |
| EGPRS1900 | 512 | 3 | 23.21 | 24.21 | 33.00 | PASS |
| EGPRS1900 | 512 | 4 | 22.02 | 23.02 | 33.00 | PASS |
| EGPRS1900 | 661 | 1 | 26.02 | 27.02 | 33.00 | PASS |
| EGPRS1900 | 661 | 2 | 25.38 | 26.38 | 33.00 | PASS |
| EGPRS1900 | 661 | 3 | 23.37 | 24.37 | 33.00 | PASS |
| EGPRS1900 | 661 | 4 | 22.34 | 23.34 | 33.00 | PASS |
| EGPRS1900 | 810 | 1 | 24.92 | 25.92 | 33.00 | PASS |
| EGPRS1900 | 810 | 2 | 24.34 | 25.34 | 33.00 | PASS |
| EGPRS1900 | 810 | 3 | 22.08 | 23.08 | 33.00 | PASS |
| EGPRS1900 | 810 | 4 | 21.23 | 22.23 | 33.00 | PASS |



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Remark:

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

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

EIRP [dBm] = Conducted Power [dBm] + 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 | 7.68 | 13 | PASS |
| GSM850 | 190 | 7.65 | 13 | PASS |
| GSM850 | 251 | 7.71 | 13 | PASS |
| EGPRS850 | 128 | 10.67 | 13 | PASS |
| EGPRS850 | 190 | 10.96 | 13 | PASS |
| EGPRS850 | 251 | 10.70 | 13 | PASS |
| GSM1900 | 512 | 7.77 | 13 | PASS |
| GSM1900 | 661 | 7.71 | 13 | PASS |
| GSM1900 | 810 | 7.74 | 13 | PASS |
| EGPRS1900 | 512 | 10.64 | 13 | PASS |
| EGPRS1900 | 661 | 9.97 | 13 | PASS |
| EGPRS1900 | 810 | 10.81 | 13 | PASS |



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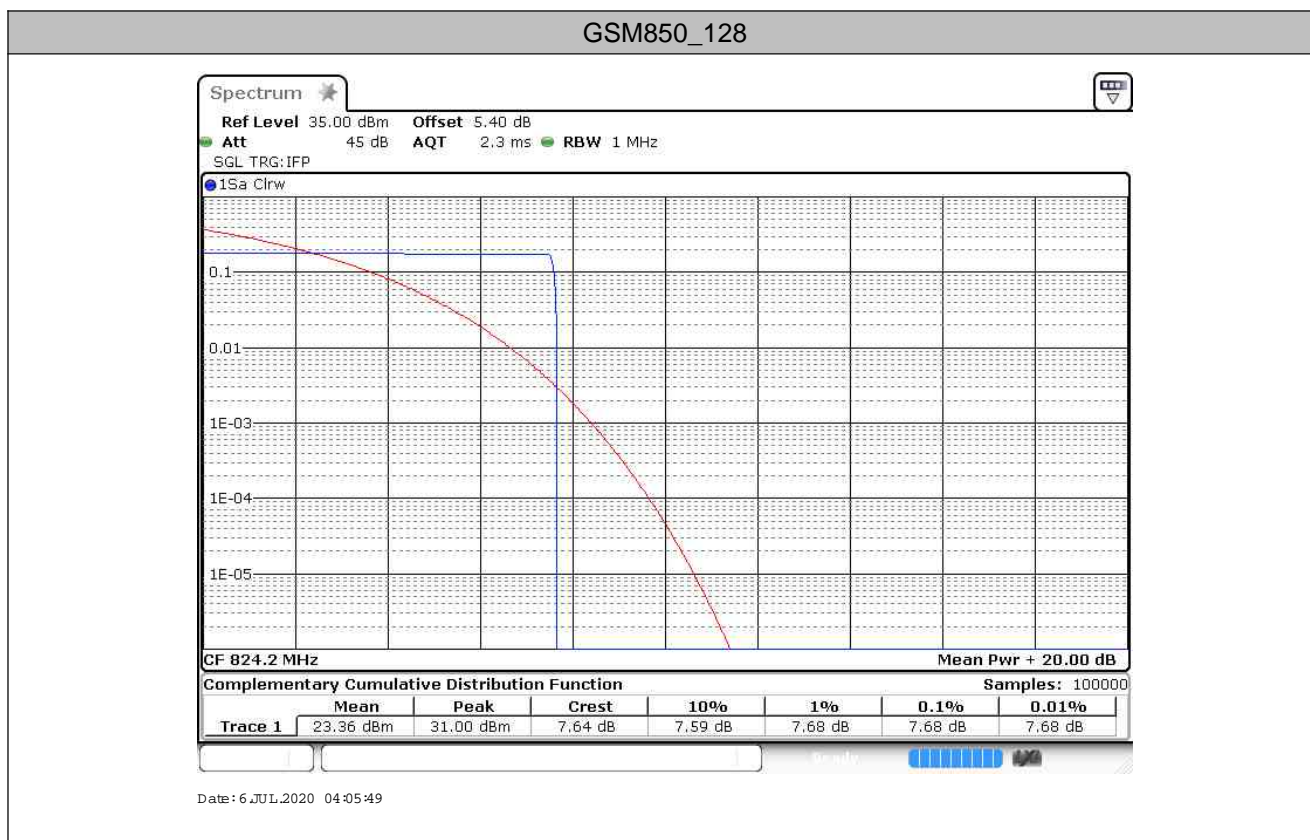
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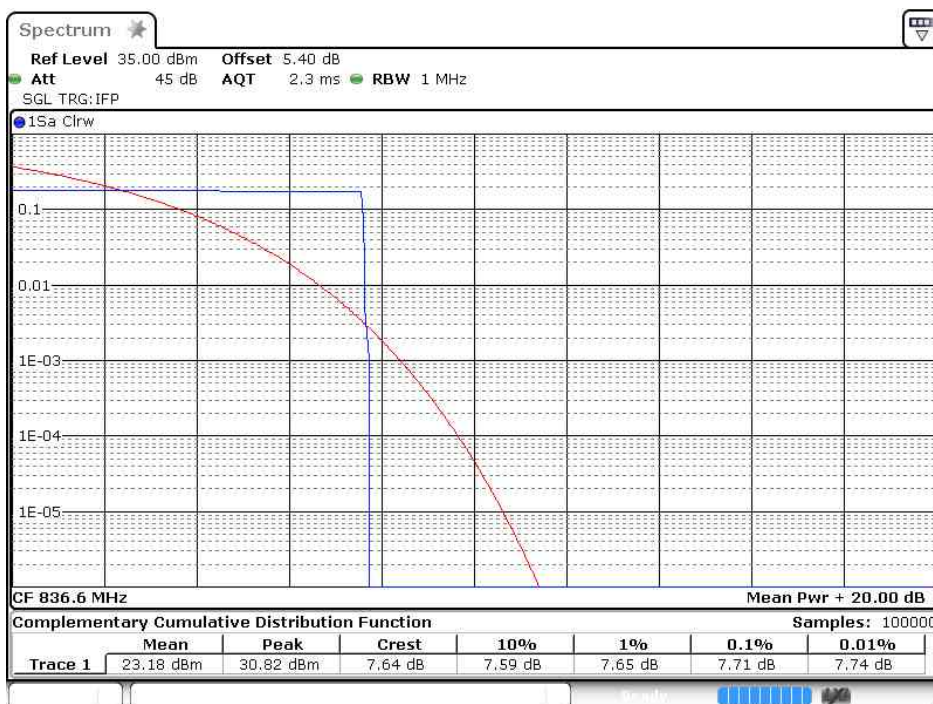


2.2.Part II - Test Plots





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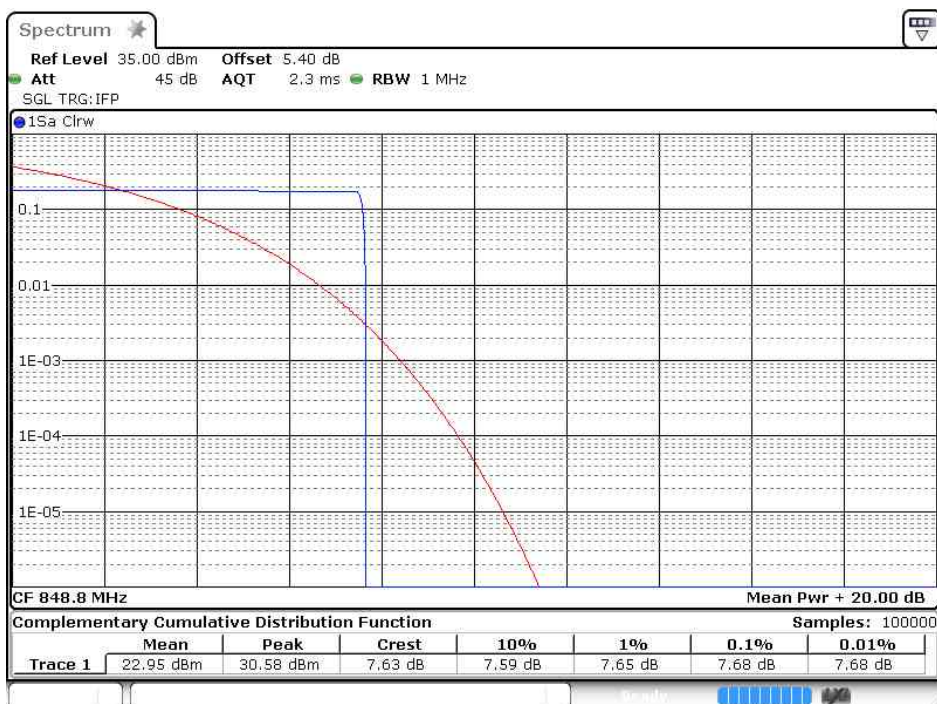
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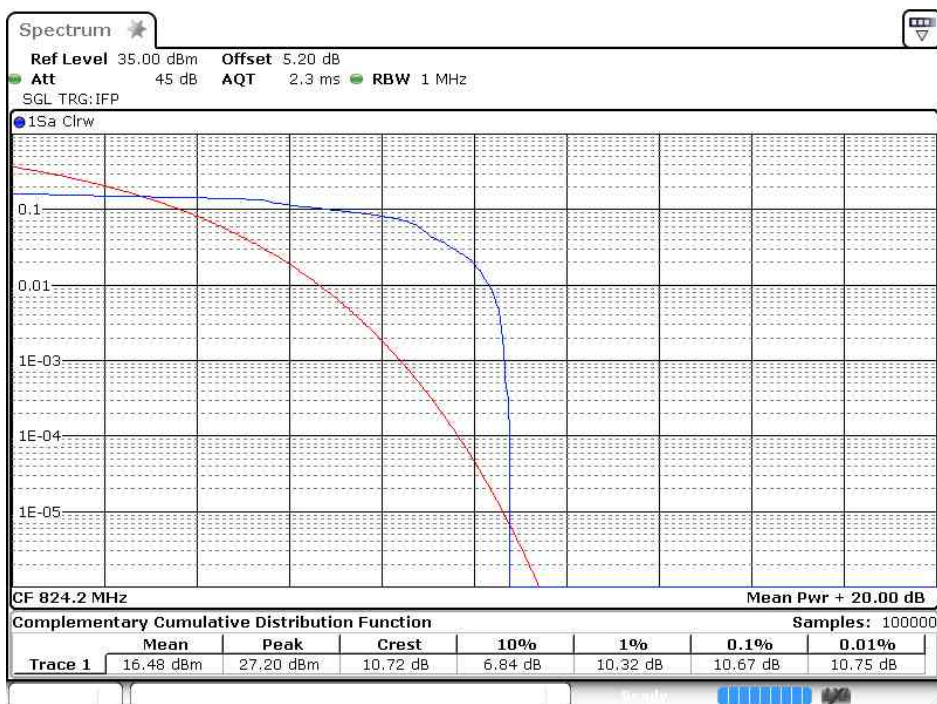
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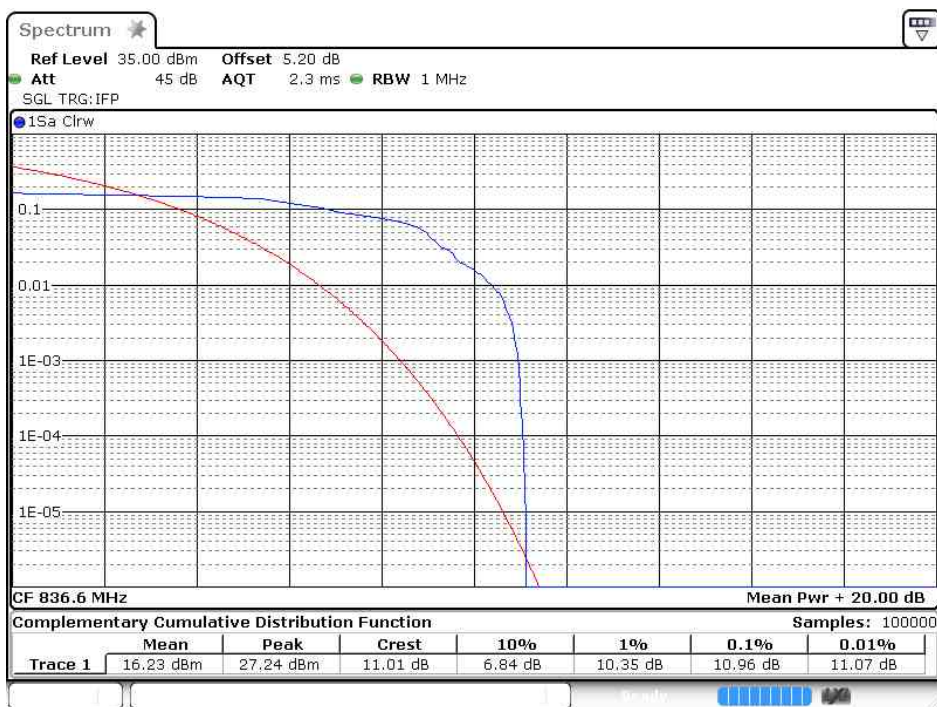
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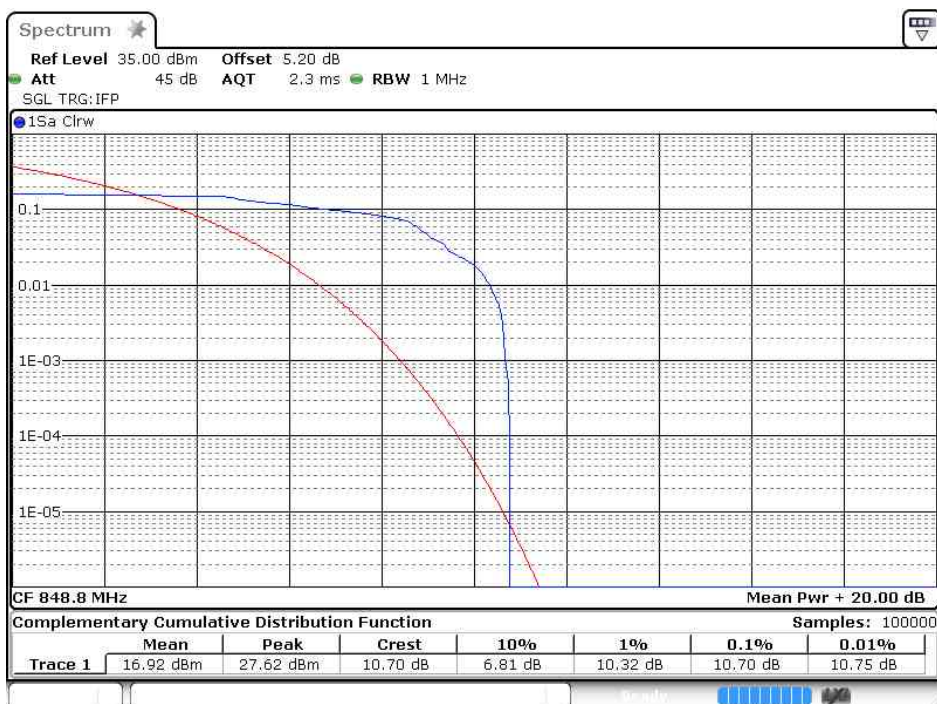
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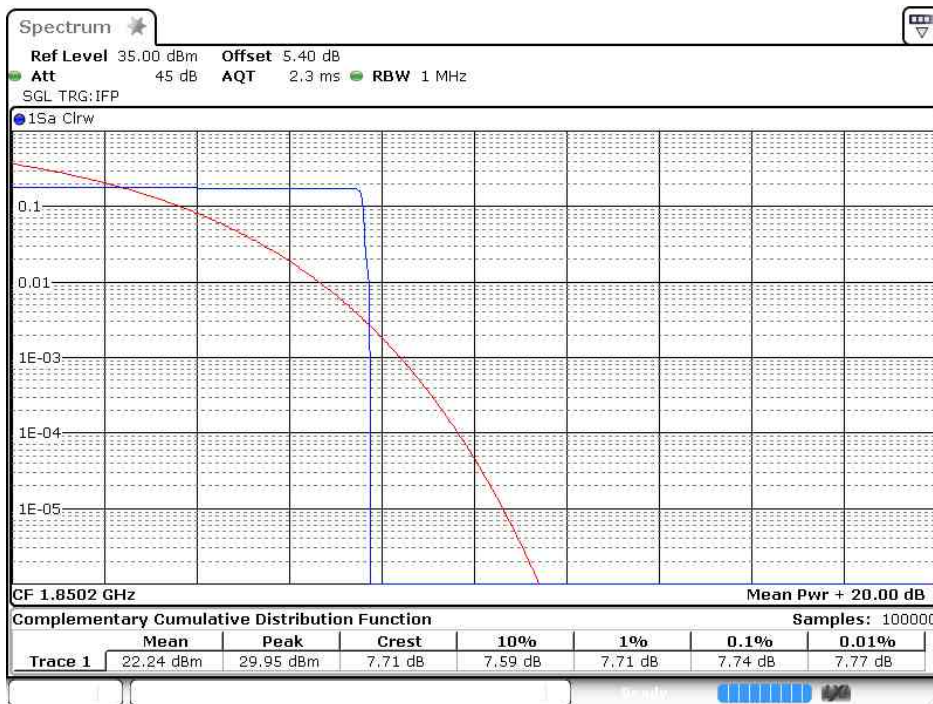
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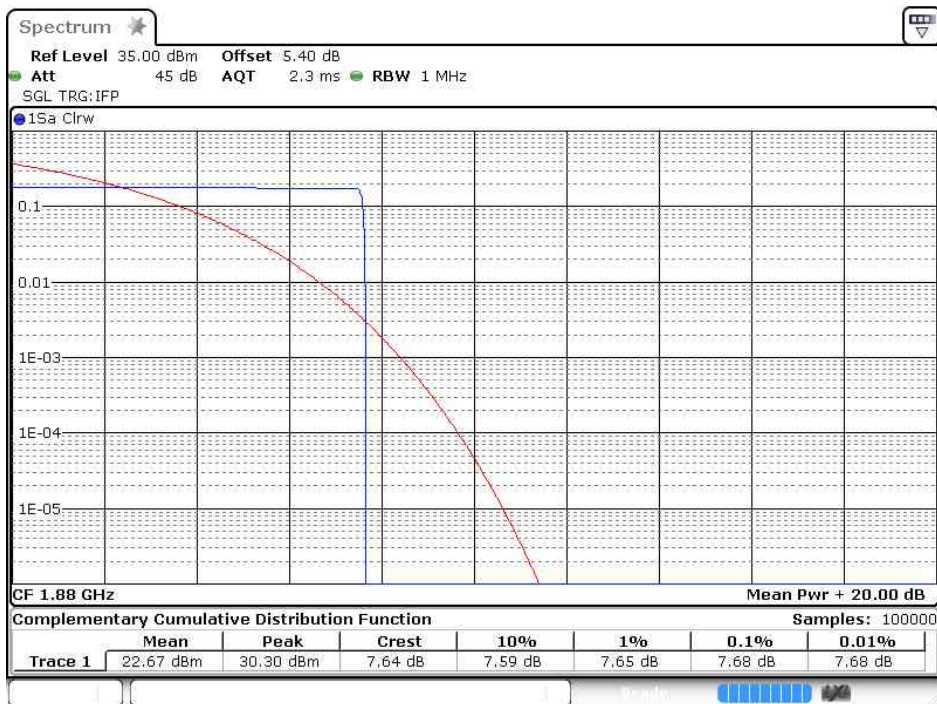
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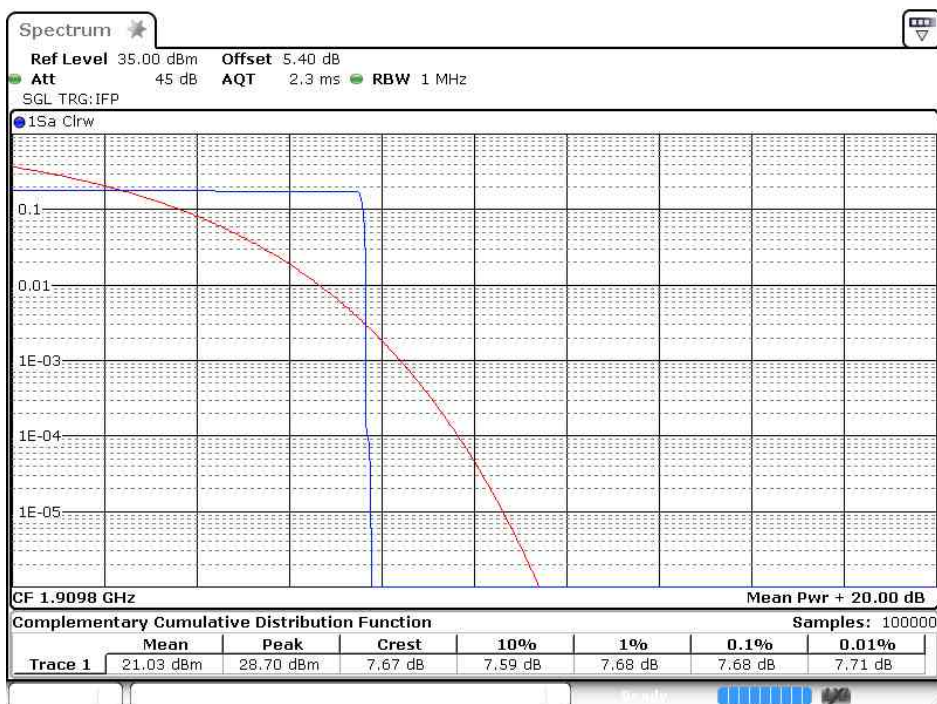
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GSM1900_810



Date: 6 JUL 2020 03:46:09



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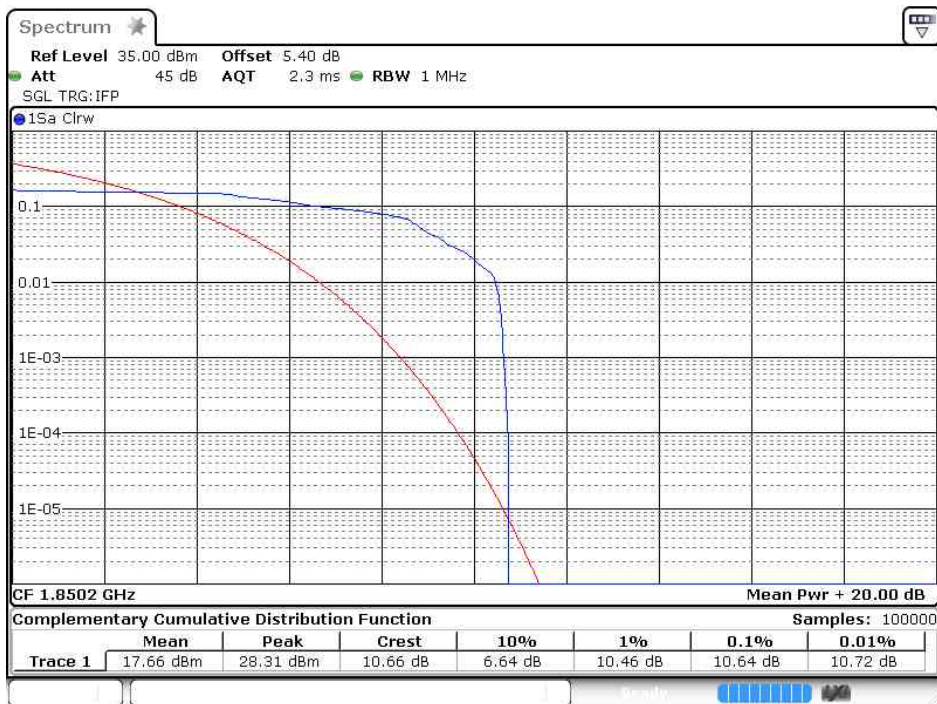
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EGPRS1900_512



Date: 6 JUL 2020 03:04:04



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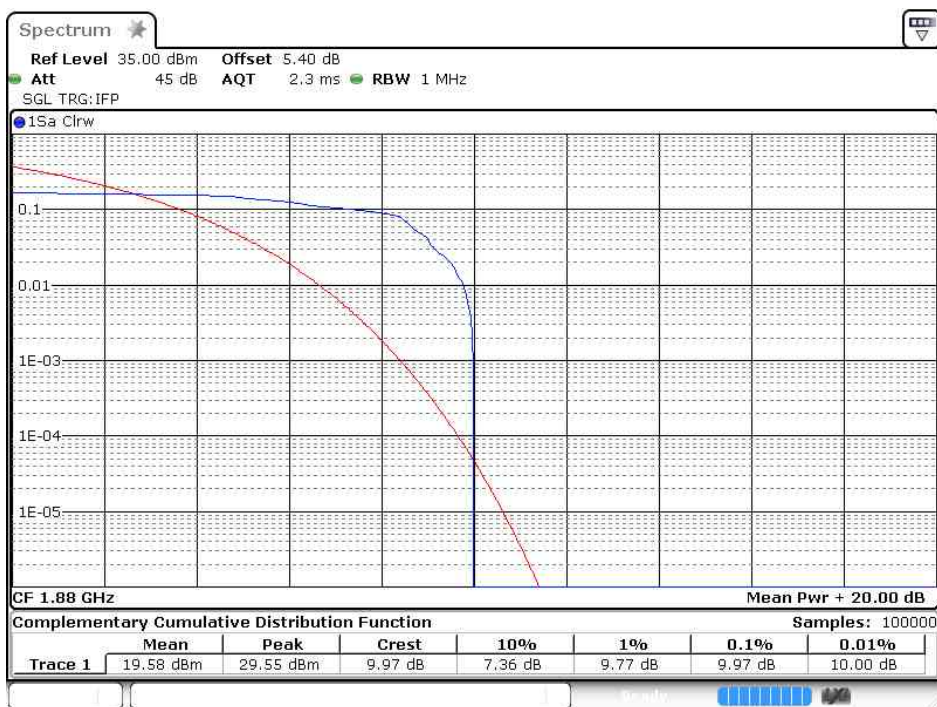
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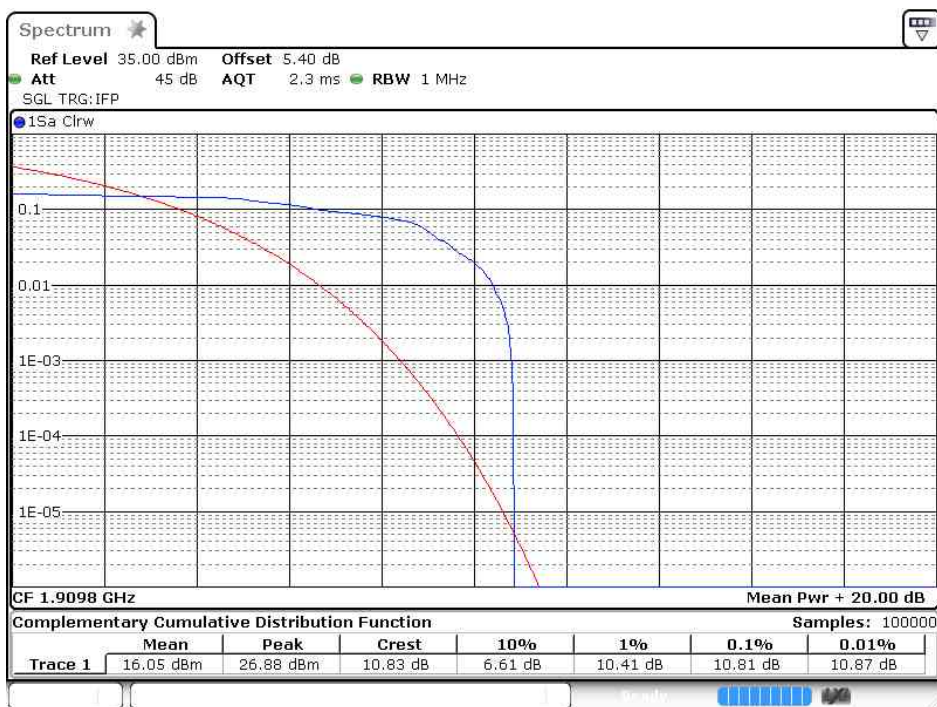


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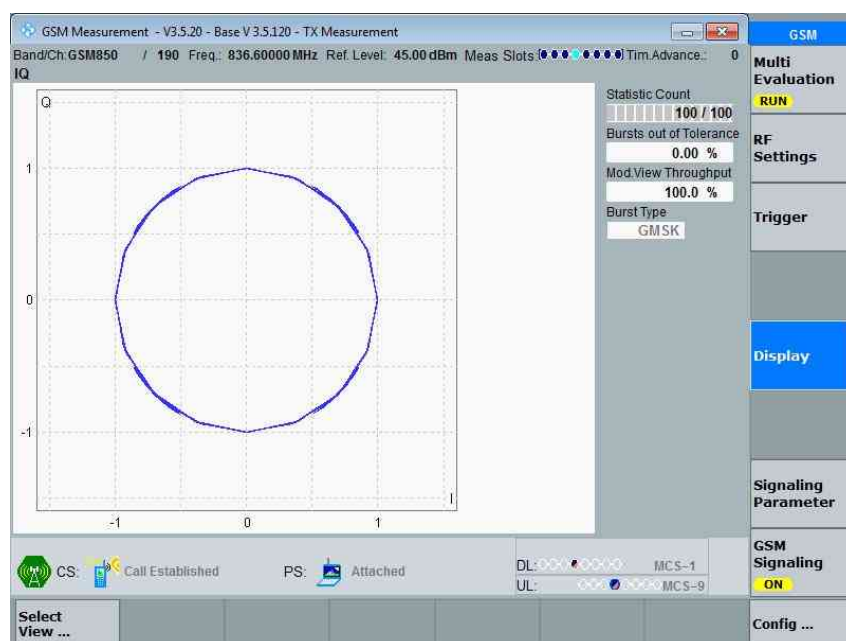
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

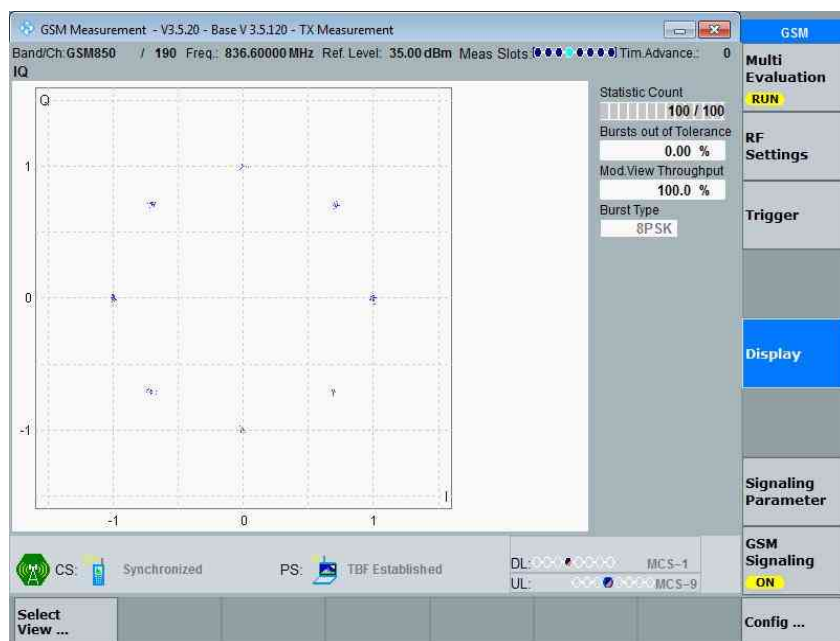
3.1.1.1.1. Test Channel = MCH





3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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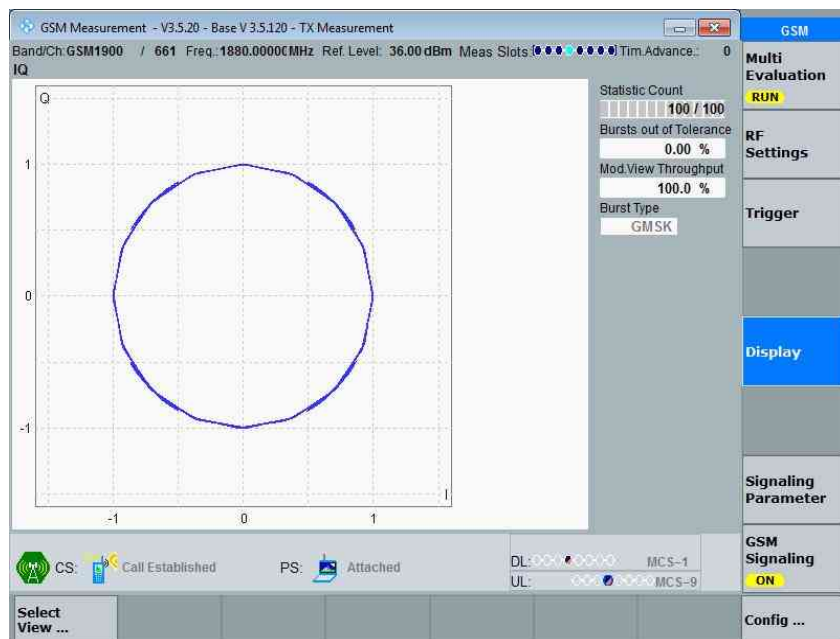
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3.1.2. Test Band = GSM 1900

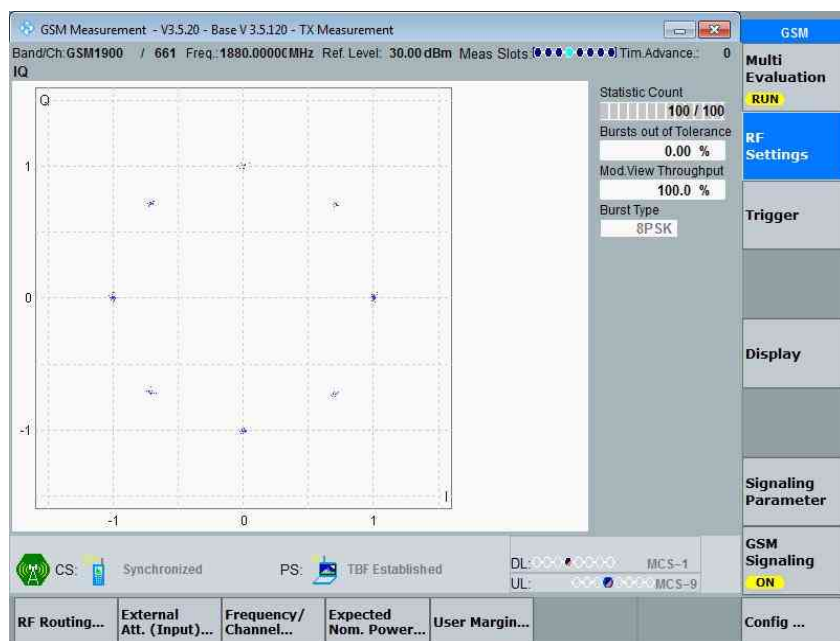
3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH



3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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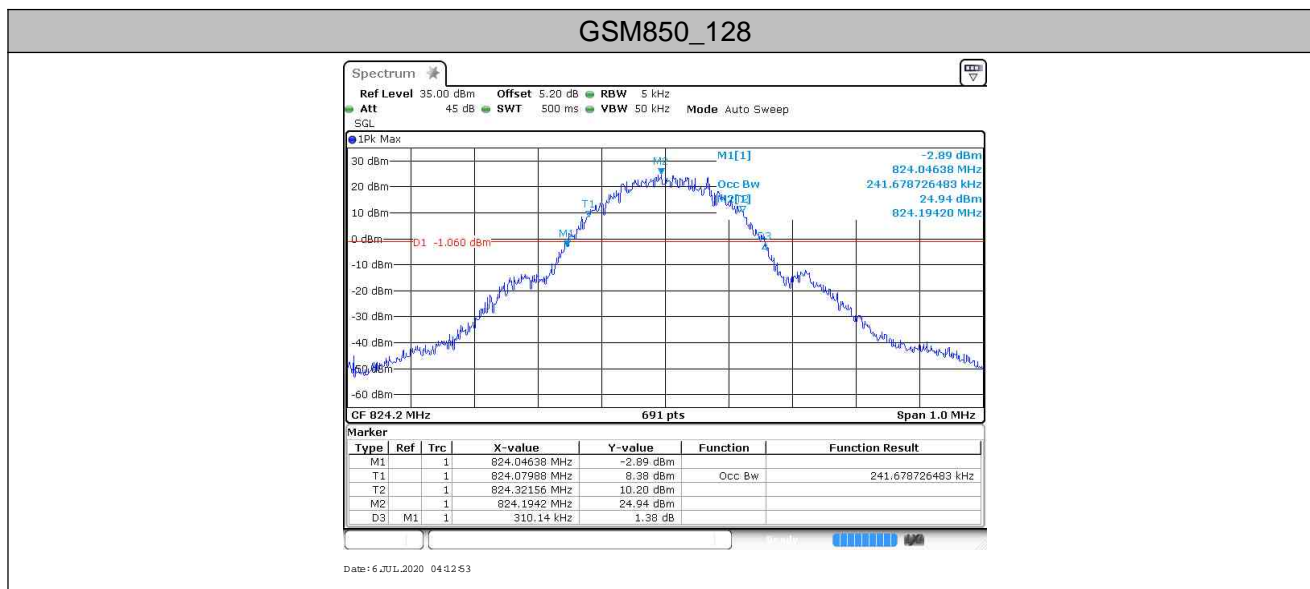


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

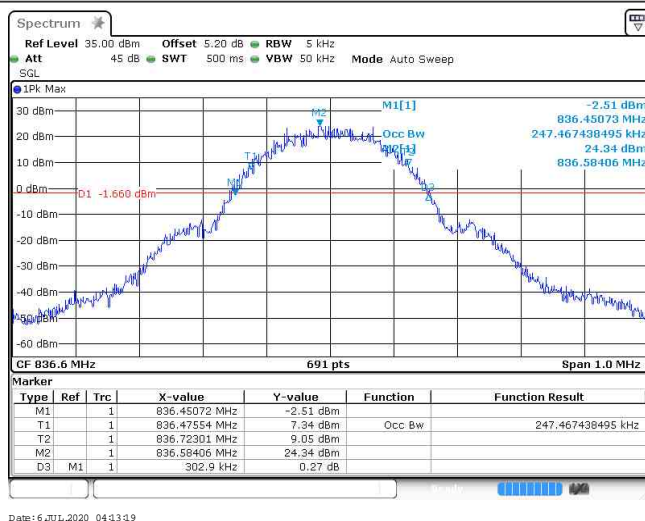
| Band | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-----------|---------|--------------------------|----------------------|------------|---------|
| GSM850 | 128 | 241.68 | 310.14 | --- | PASS |
| GSM850 | 190 | 247.47 | 302.90 | --- | PASS |
| GSM850 | 251 | 244.57 | 313.04 | --- | PASS |
| EGPRS850 | 128 | 257.60 | 310.14 | --- | PASS |
| EGPRS850 | 190 | 250.36 | 304.35 | --- | PASS |
| EGPRS850 | 251 | 248.91 | 304.35 | --- | PASS |
| GSM1900 | 512 | 244.57 | 300.00 | --- | PASS |
| GSM1900 | 661 | 246.02 | 305.80 | --- | PASS |
| GSM1900 | 810 | 244.57 | 307.25 | --- | PASS |
| EGPRS1900 | 512 | 246.02 | 298.55 | --- | PASS |
| EGPRS1900 | 661 | 251.81 | 315.94 | --- | PASS |
| EGPRS1900 | 810 | 248.91 | 308.70 | --- | PASS |

4.2. Test Plots

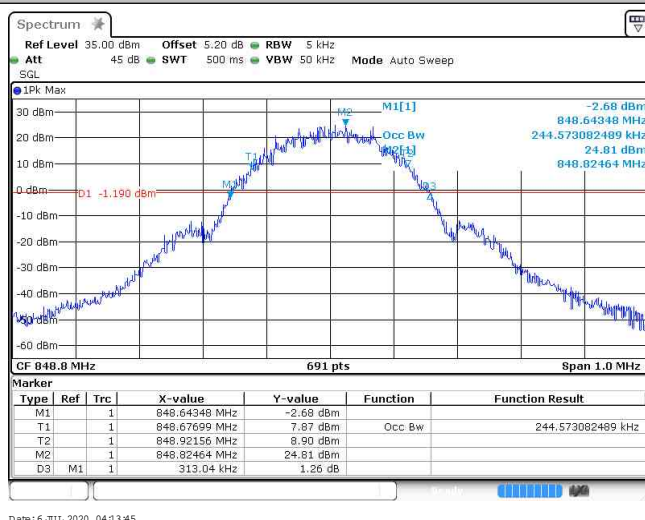




GSM850_190



GSM850_251

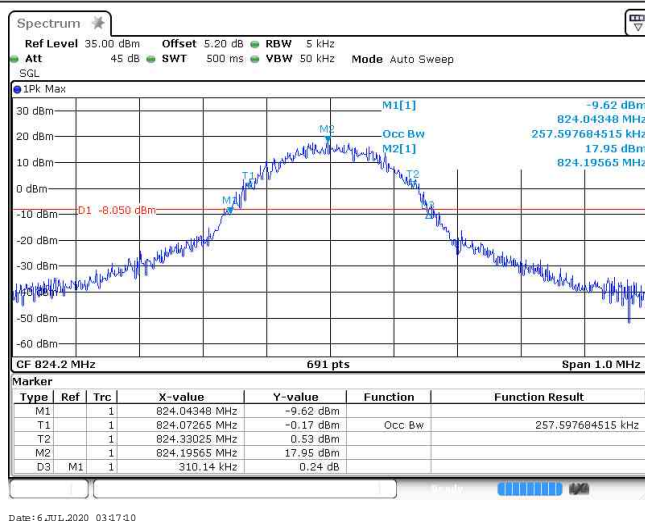


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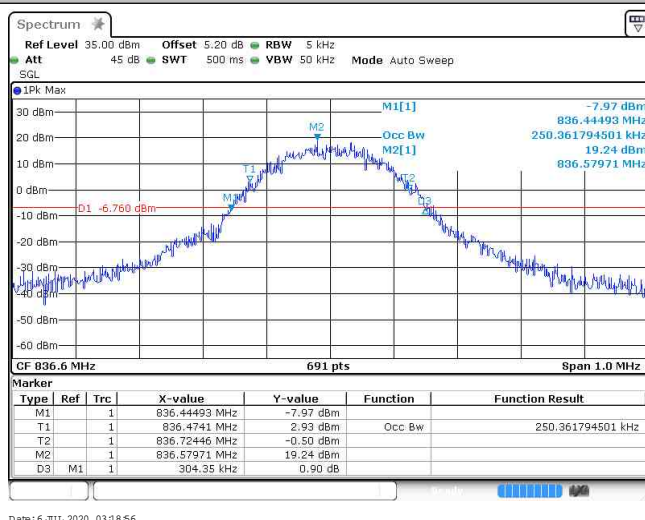
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EGPRS850_128

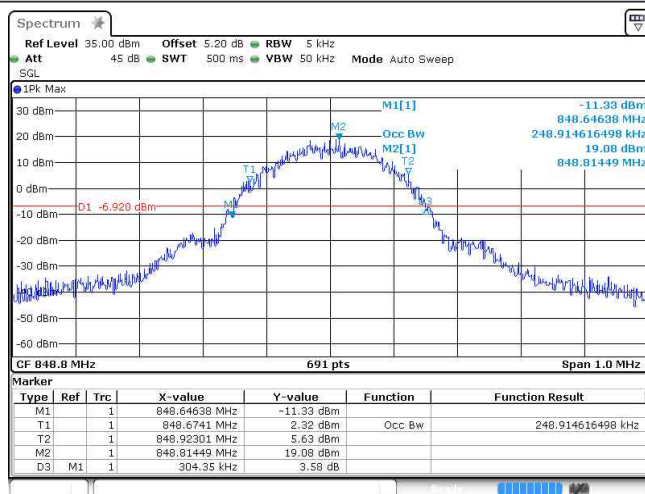


EGPRS850_190



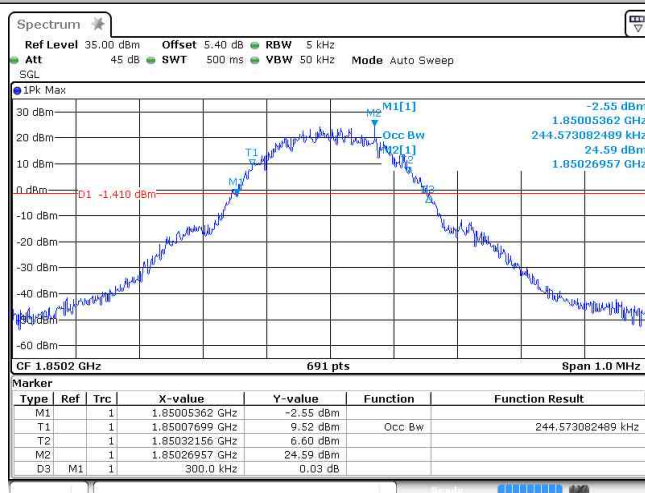


EGPRS850_251



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GSM1900_512

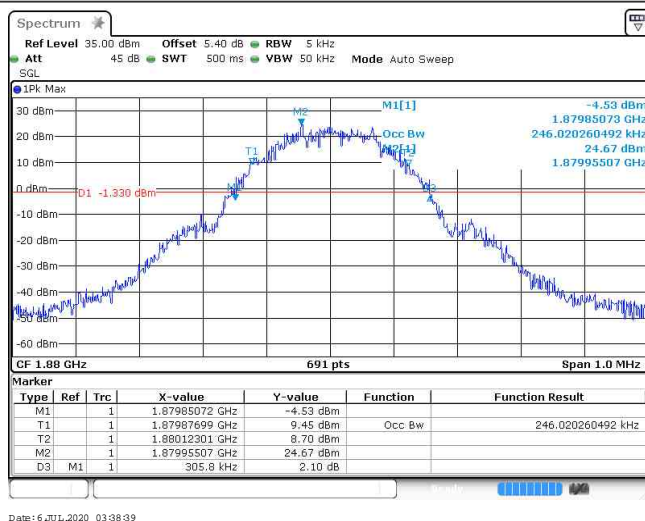


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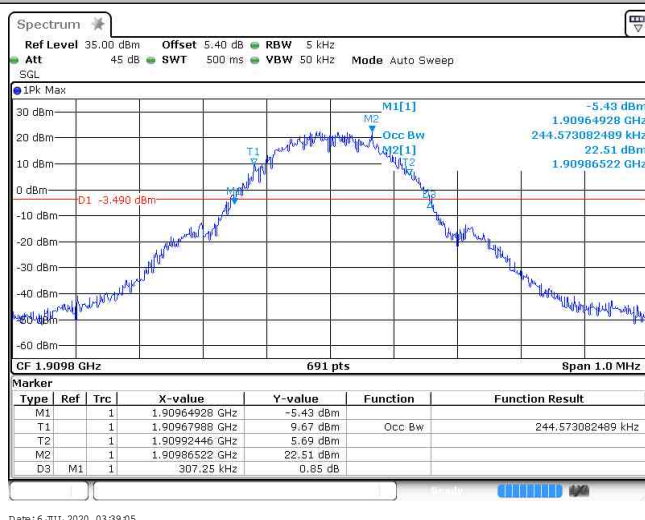




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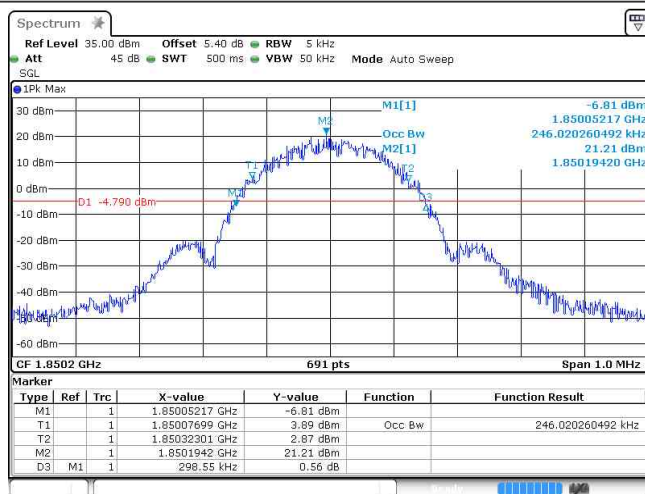


GSM1900_810



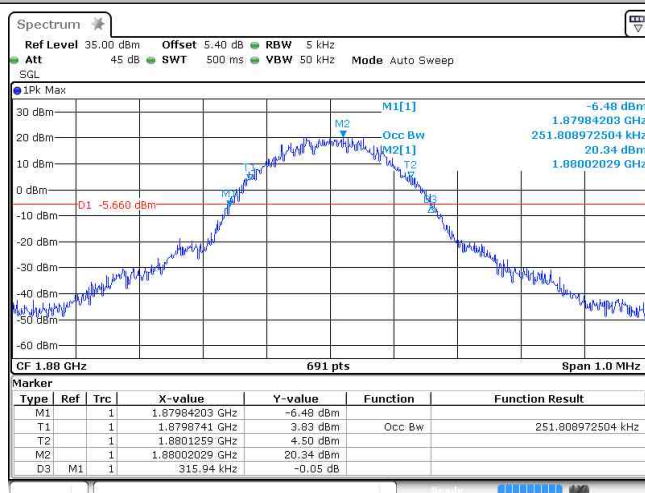


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Date: 6 JUL 2020 02:57:31



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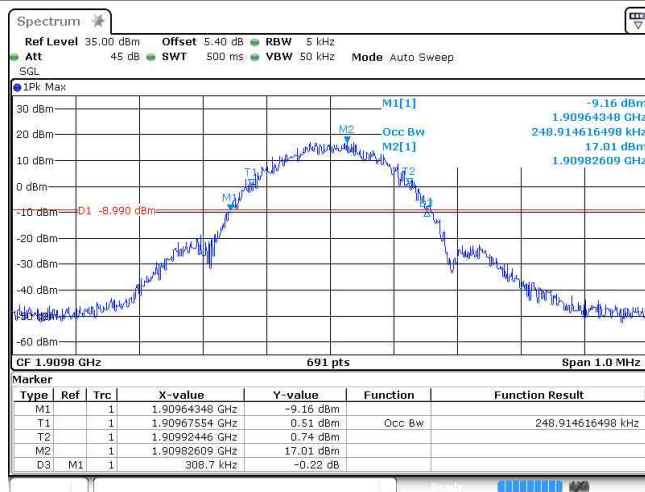
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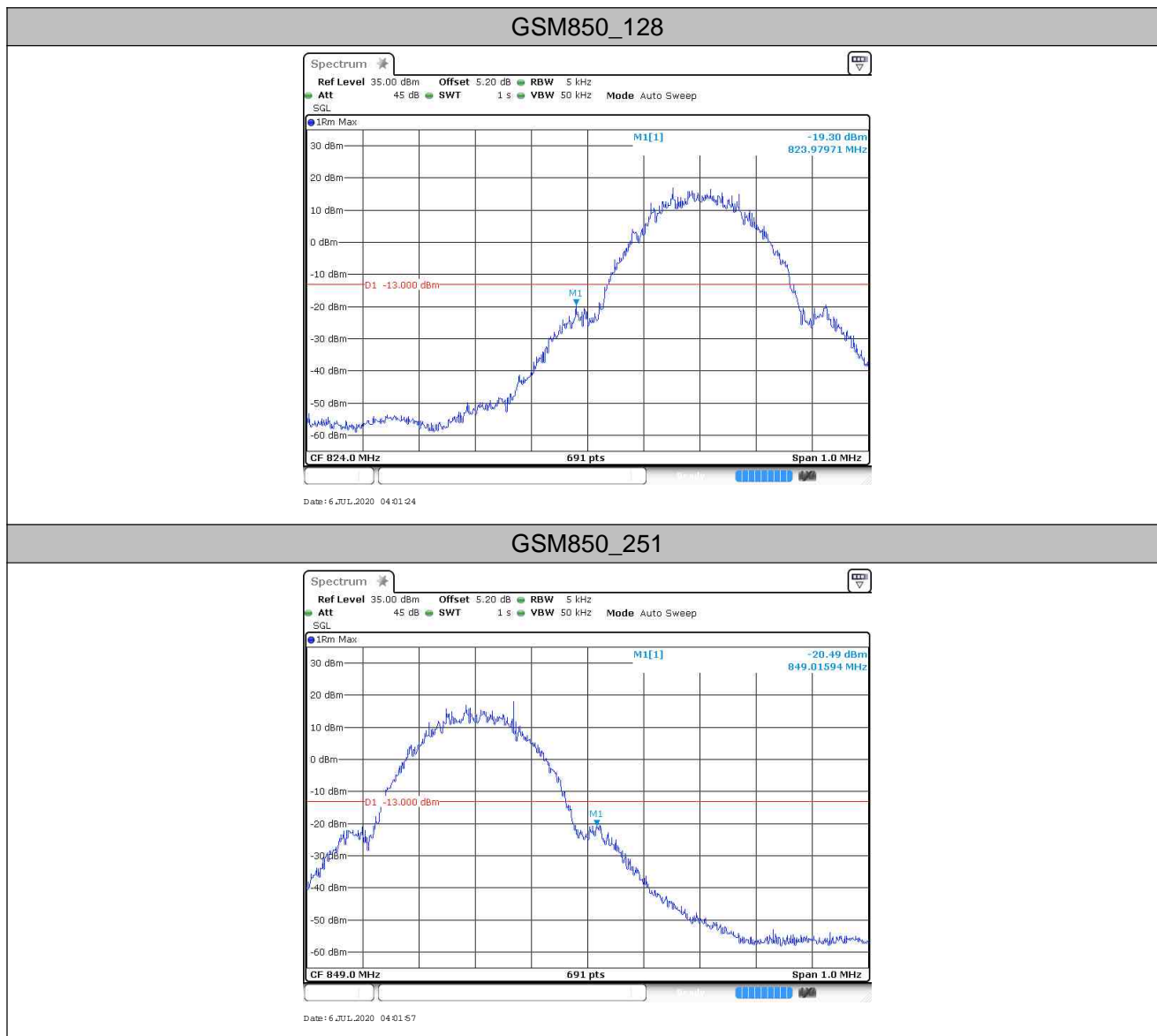
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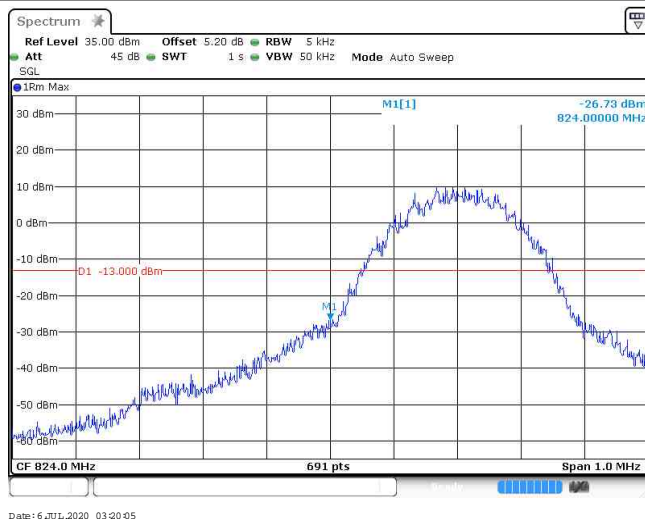
5. Band Edge Compliance

5.1. Test Plots

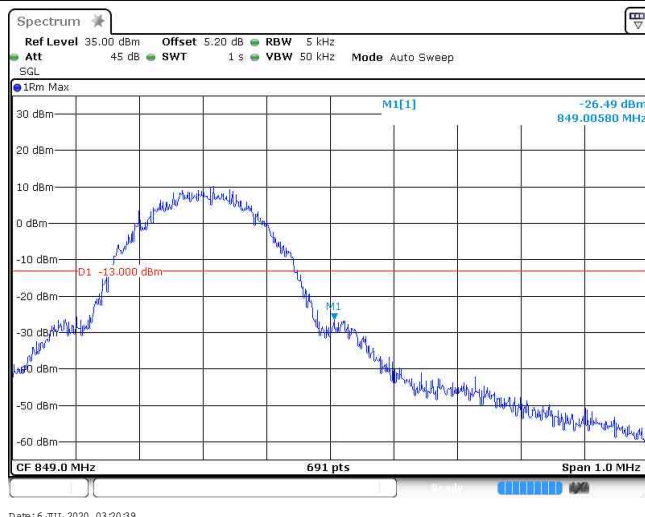




EGPRS850_128



EGPRS850_251



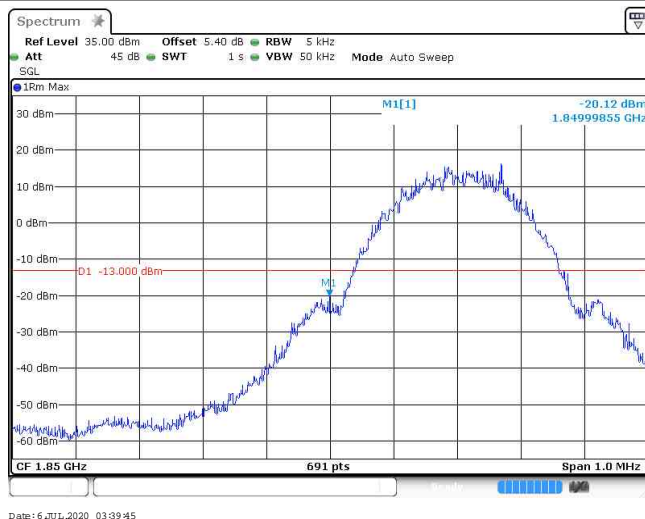
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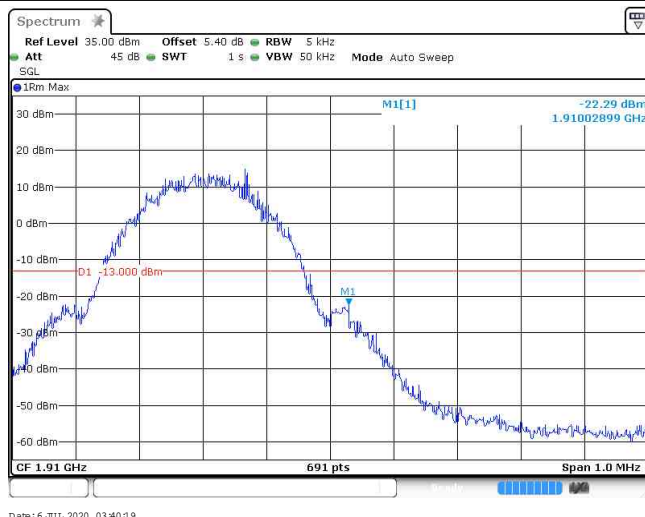
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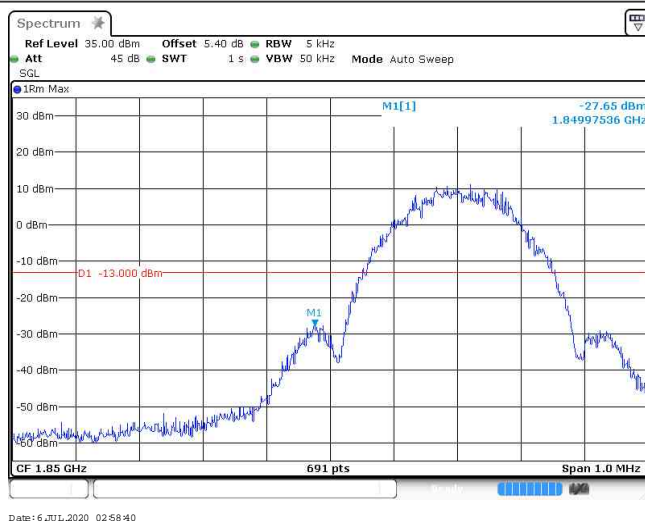


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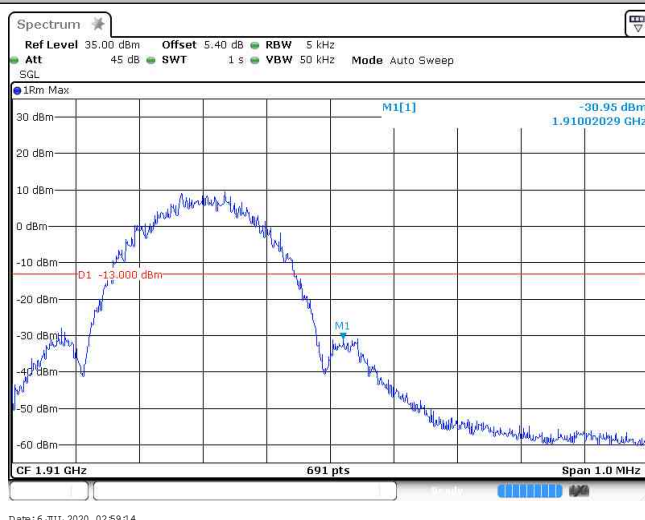


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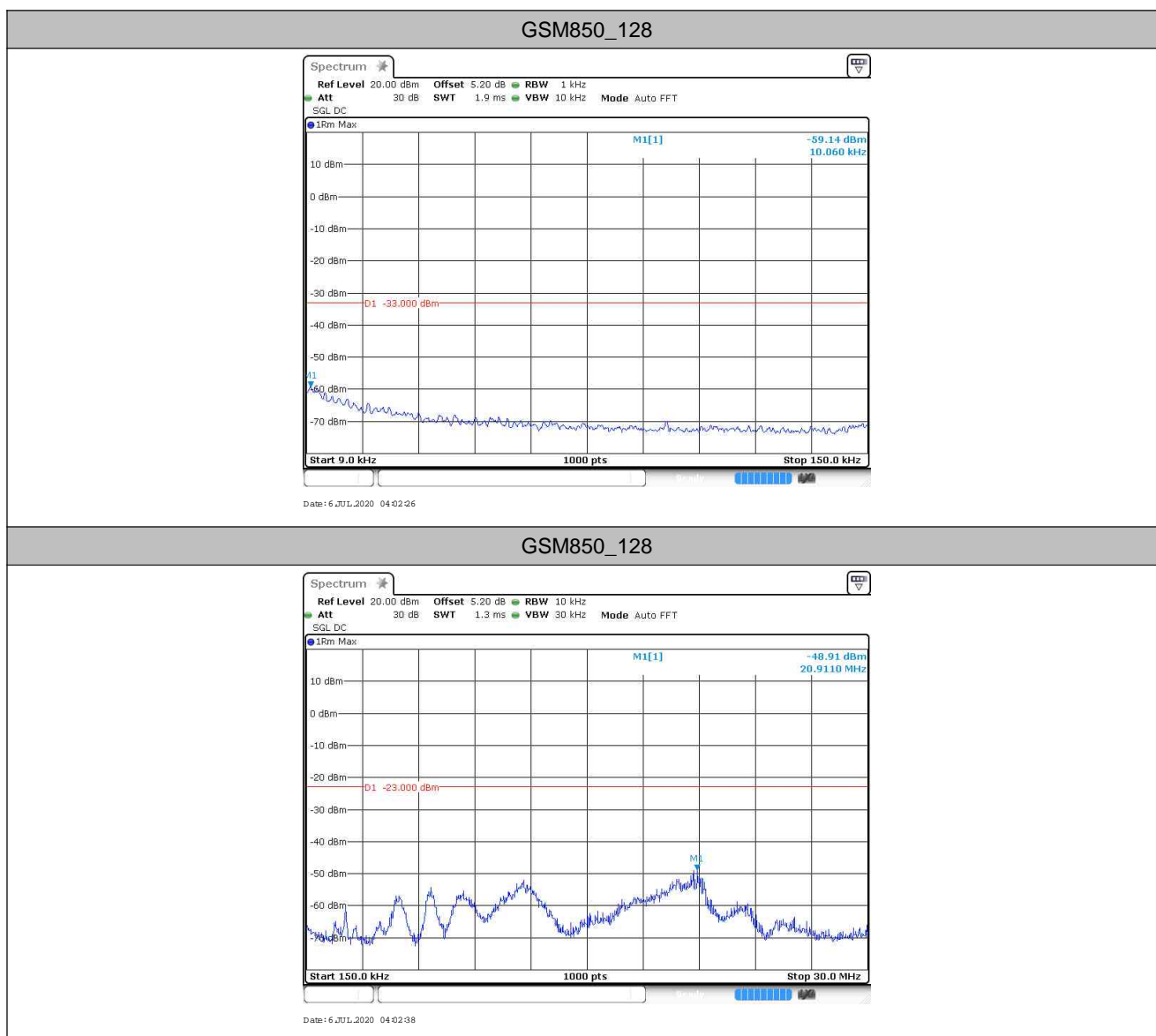


6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

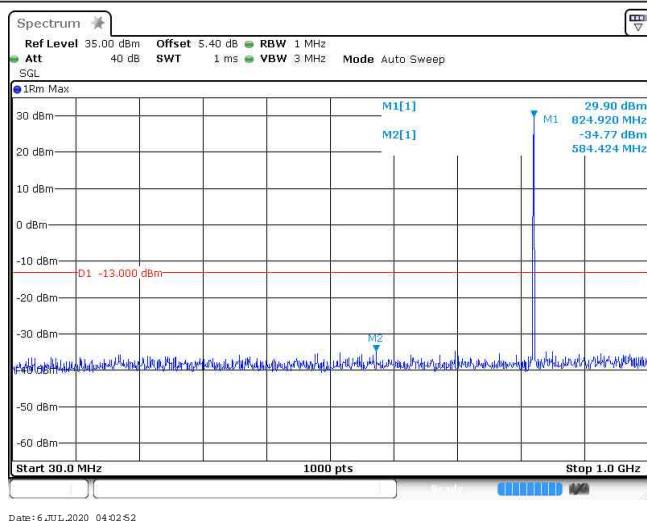
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



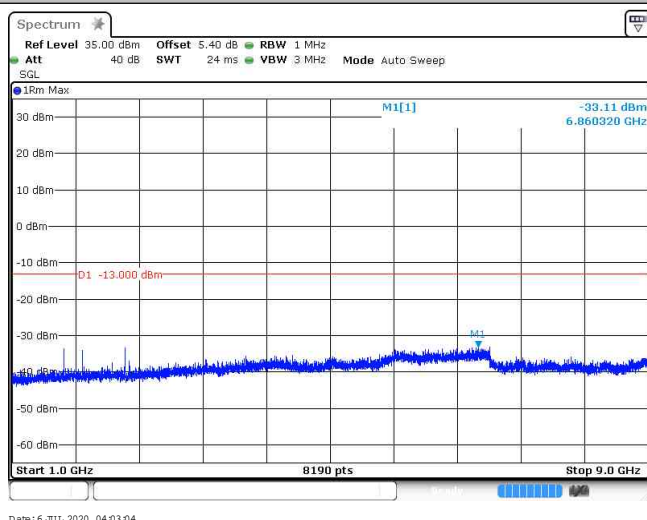


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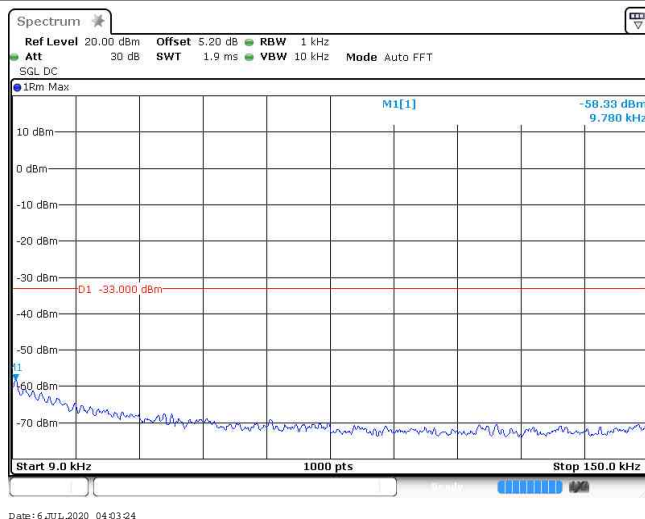
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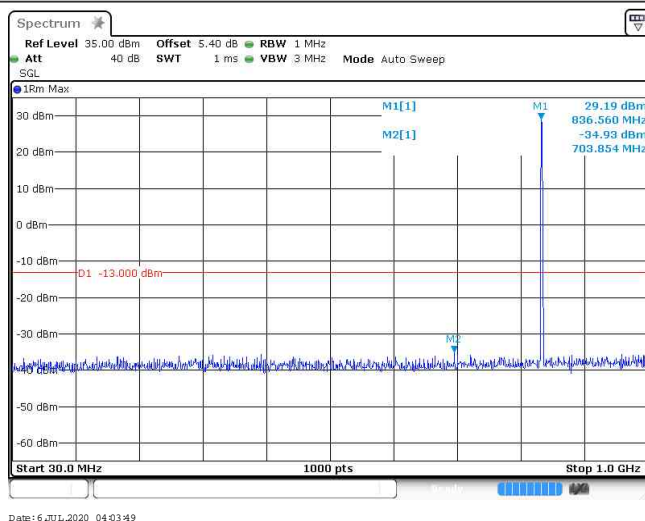


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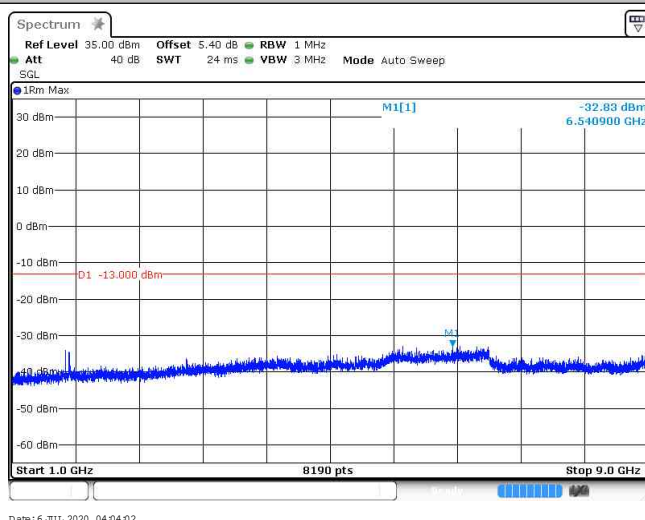




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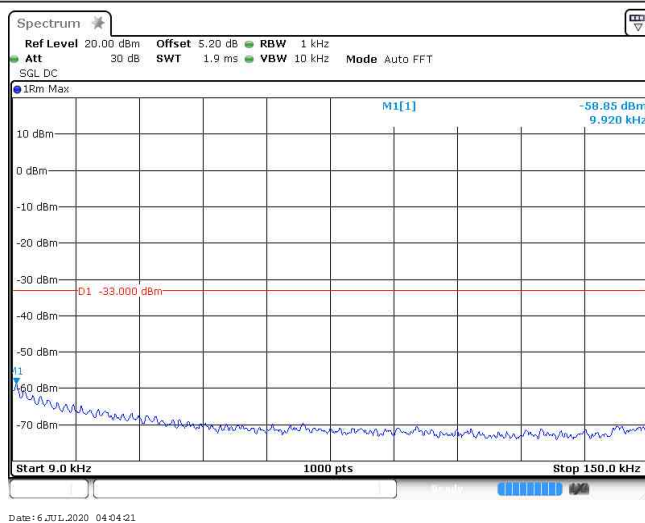


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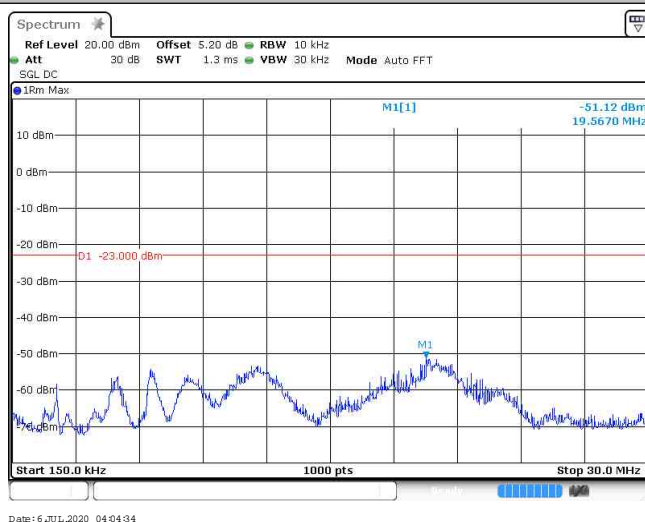




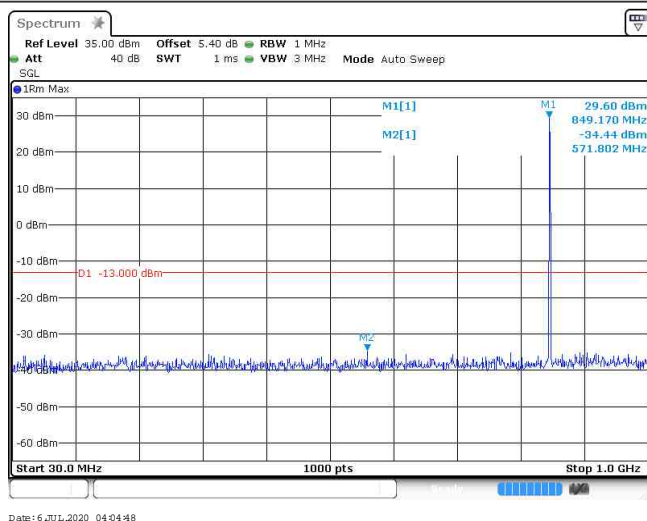
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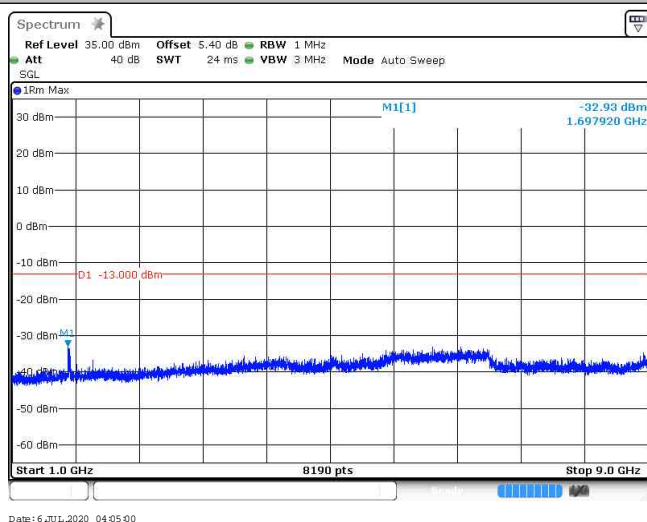
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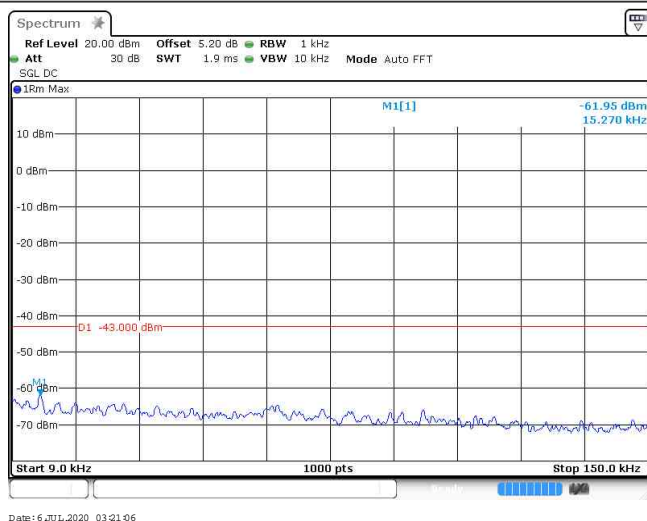
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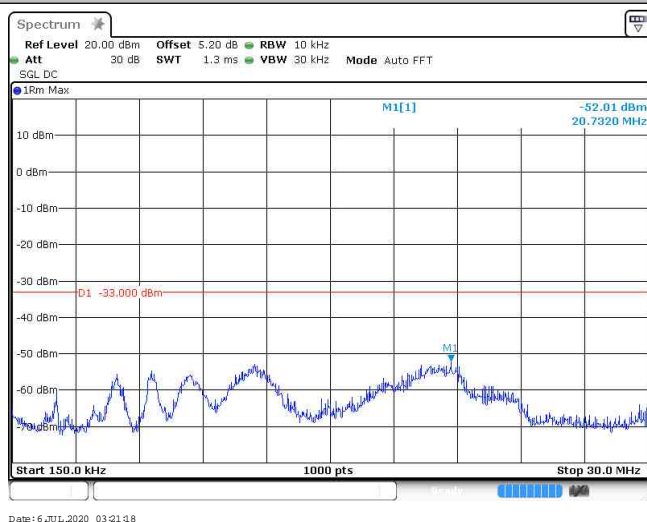
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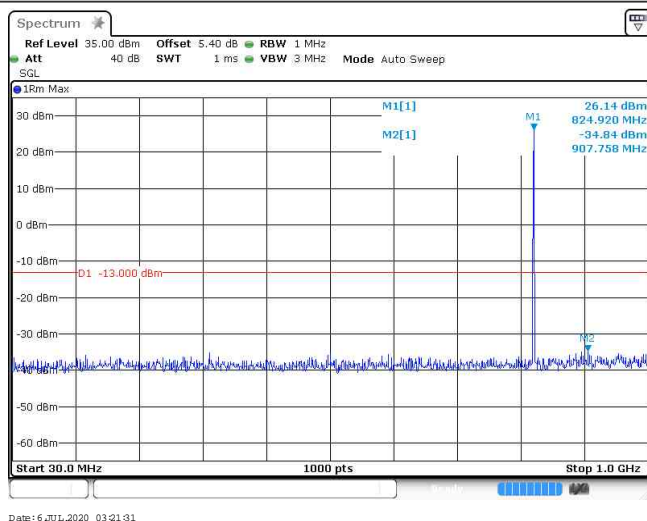


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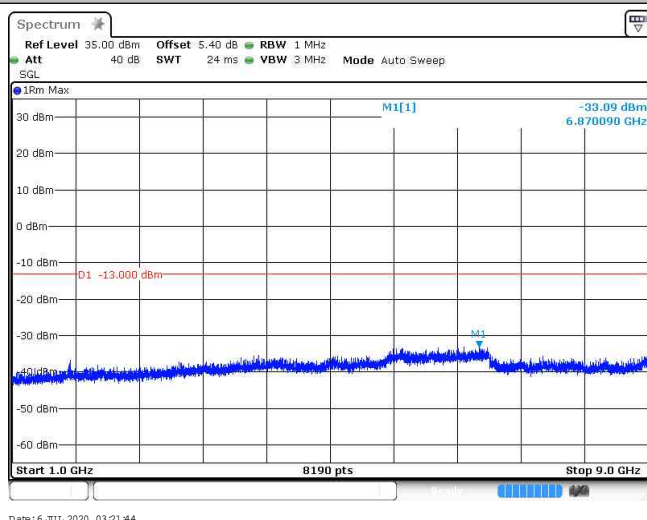


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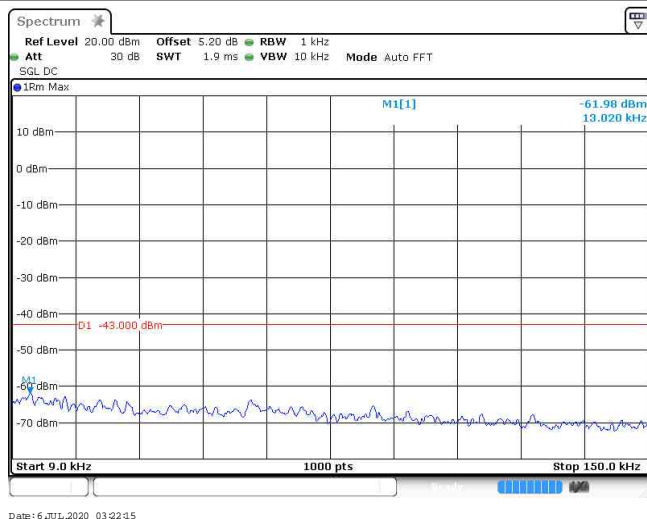


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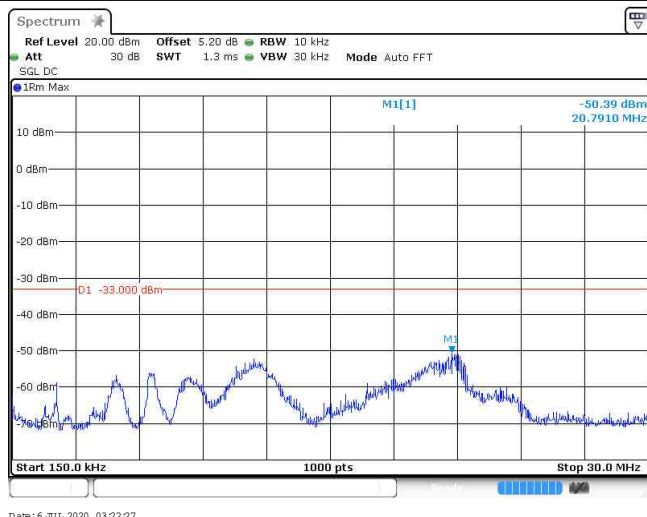
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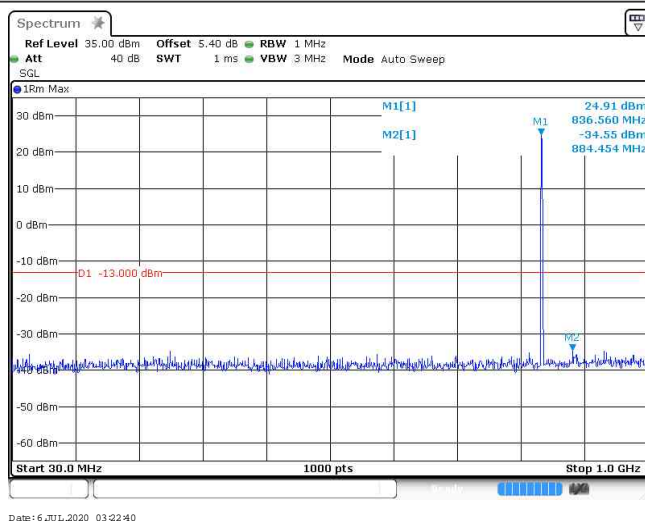
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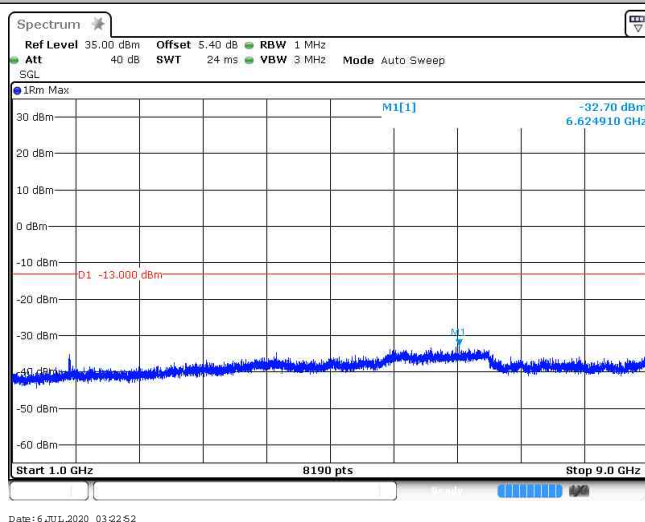
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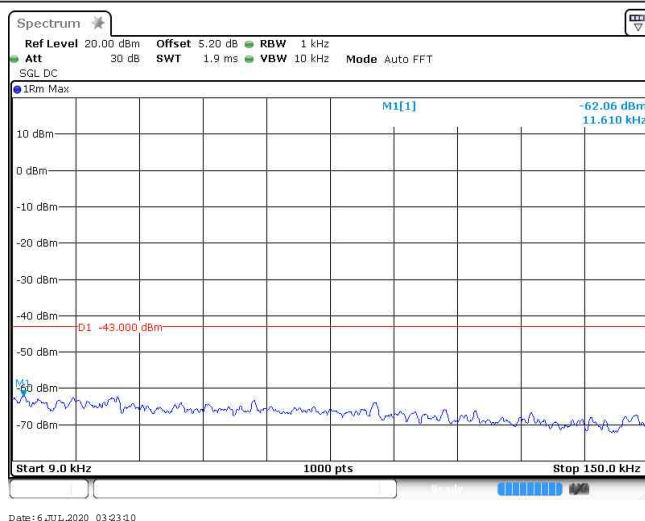
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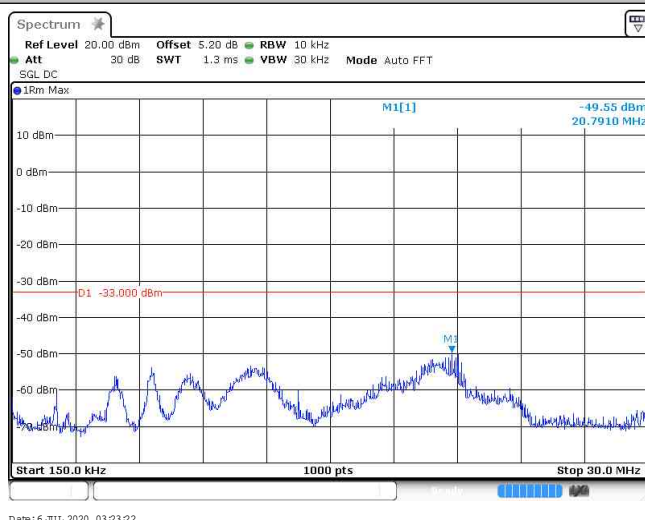
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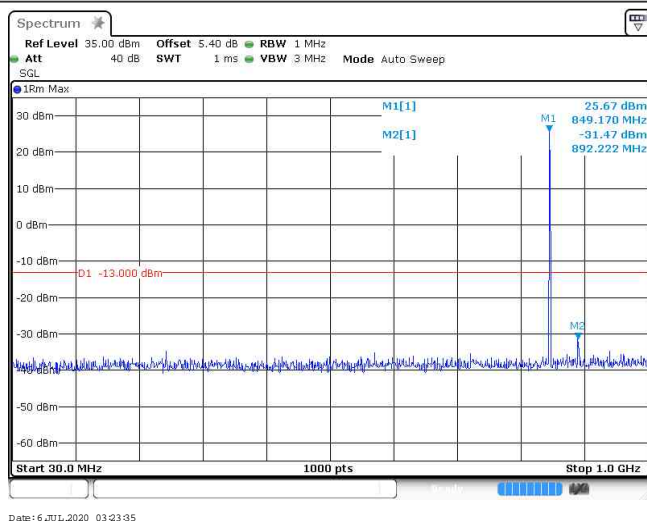


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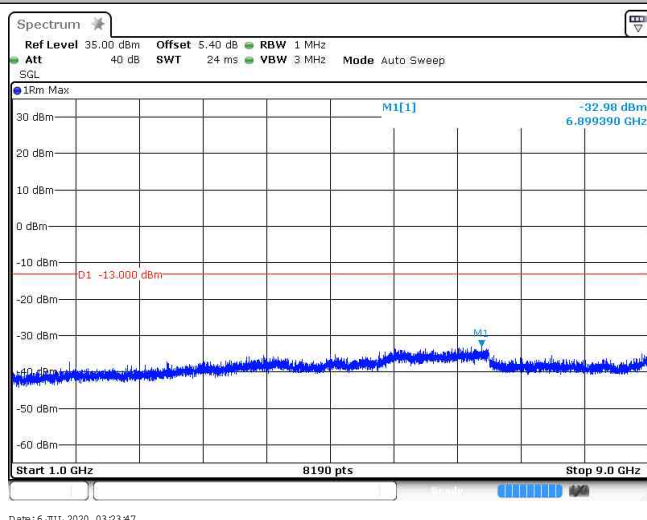


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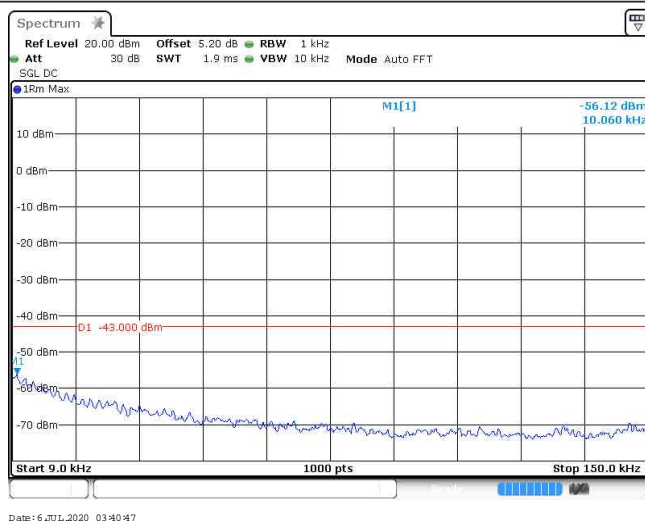


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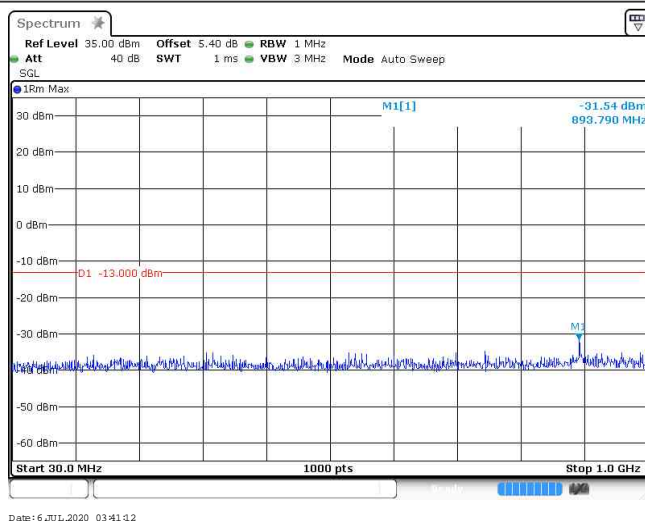


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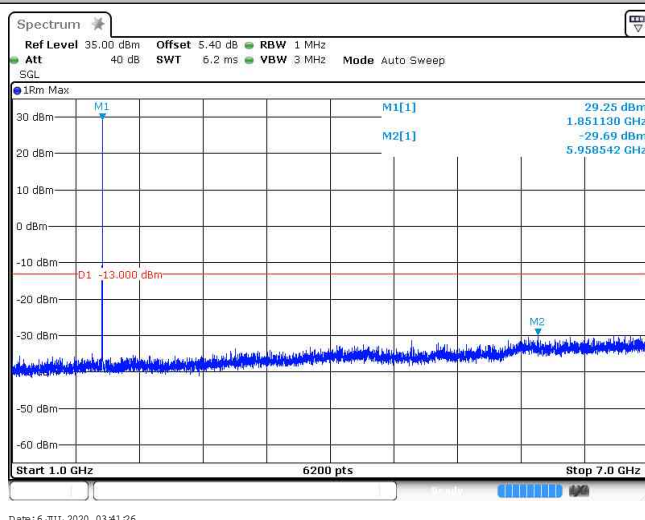




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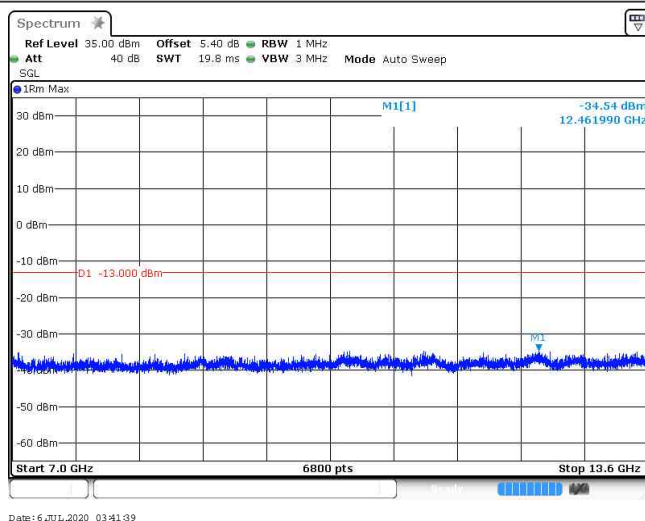


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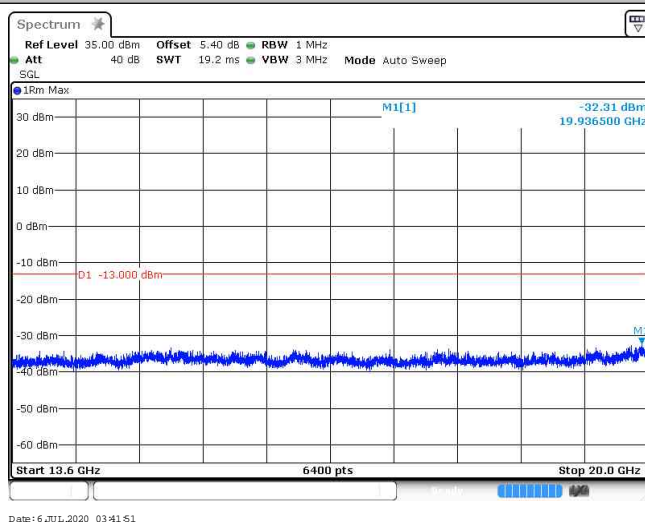




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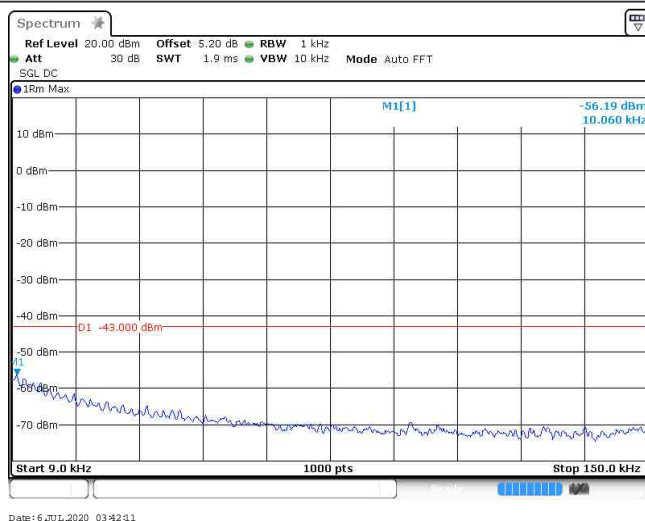


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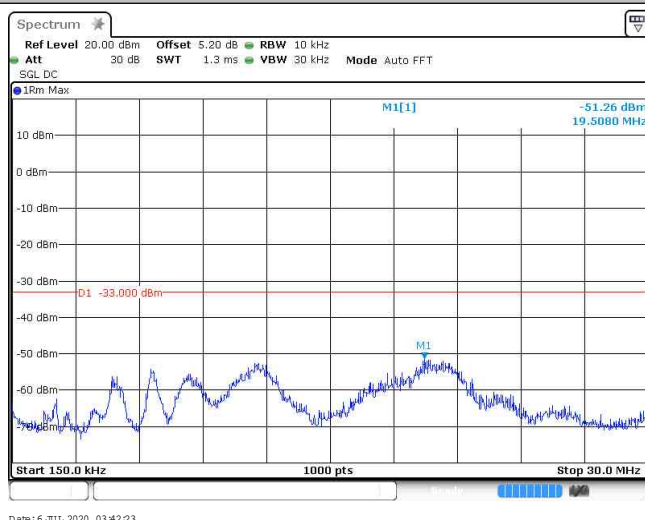




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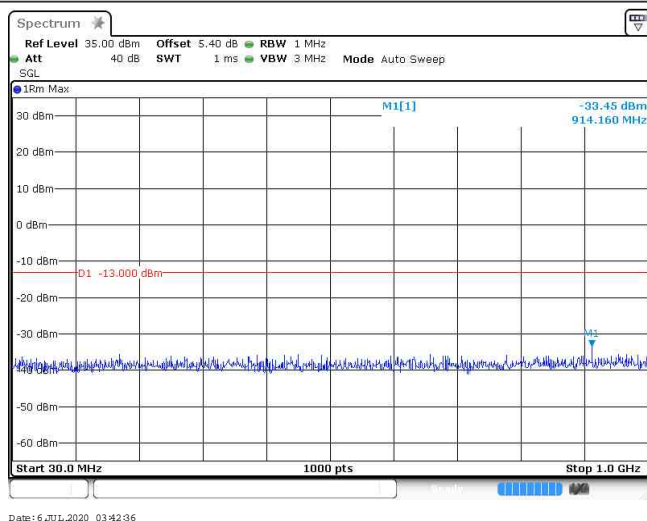


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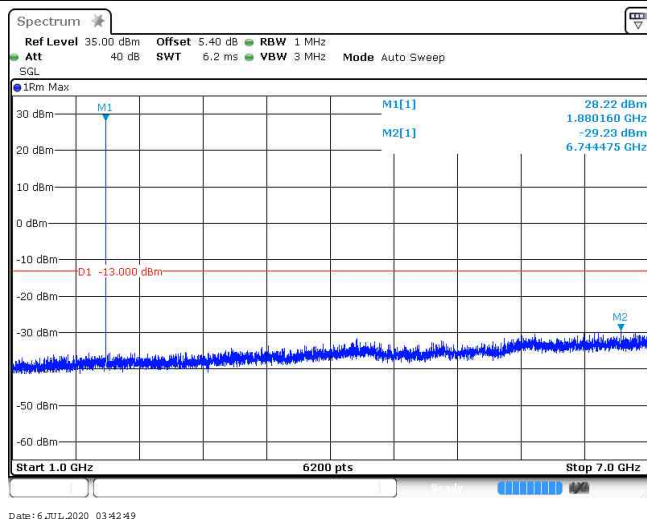
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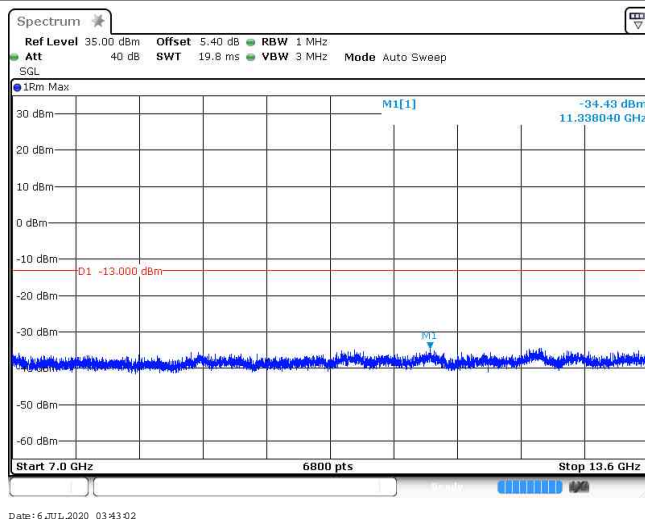


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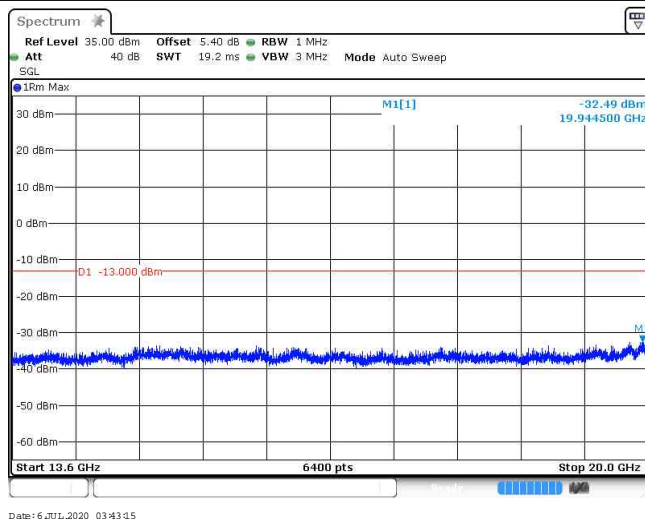




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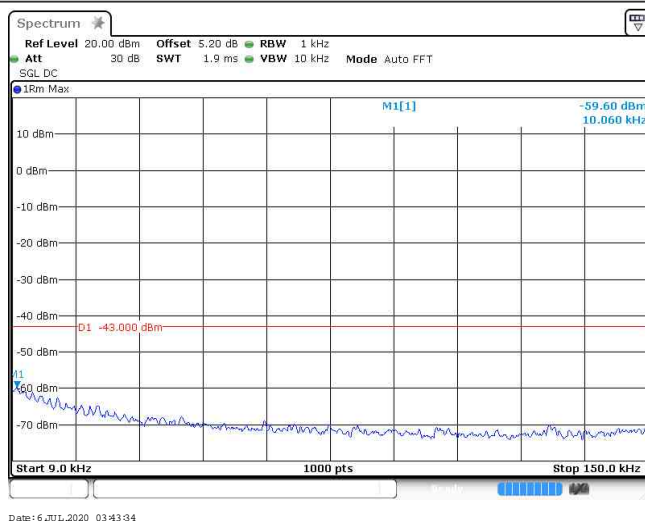


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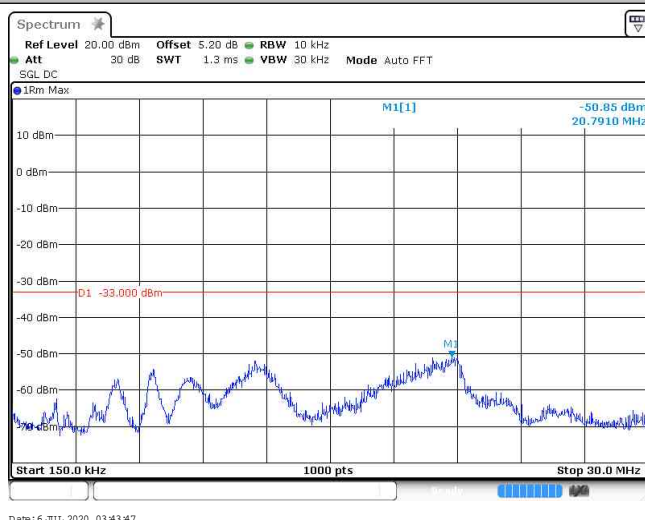




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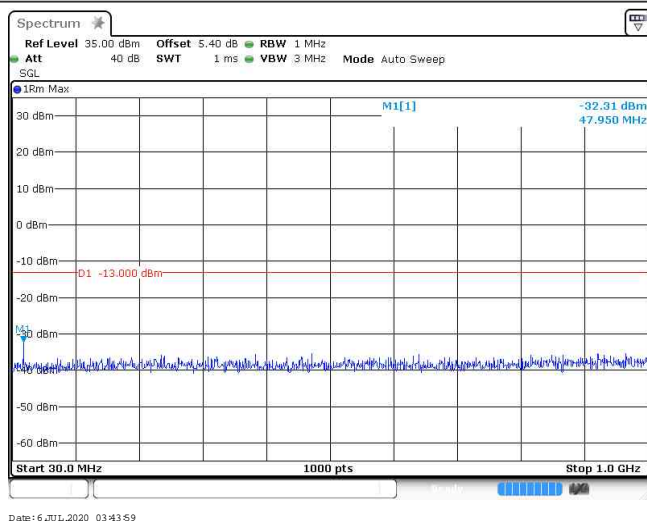


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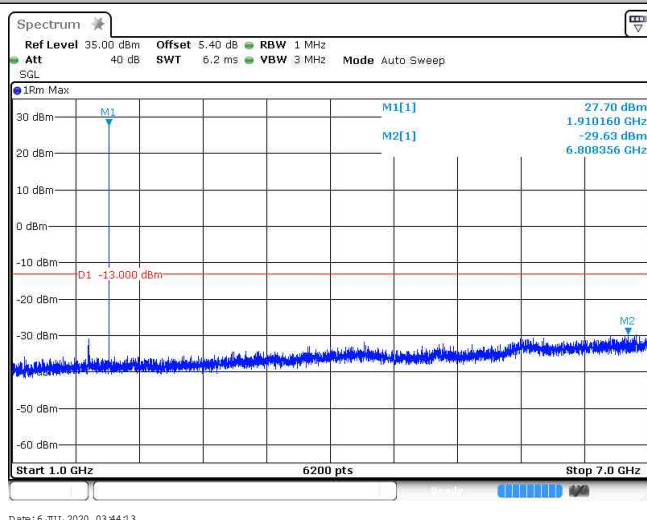


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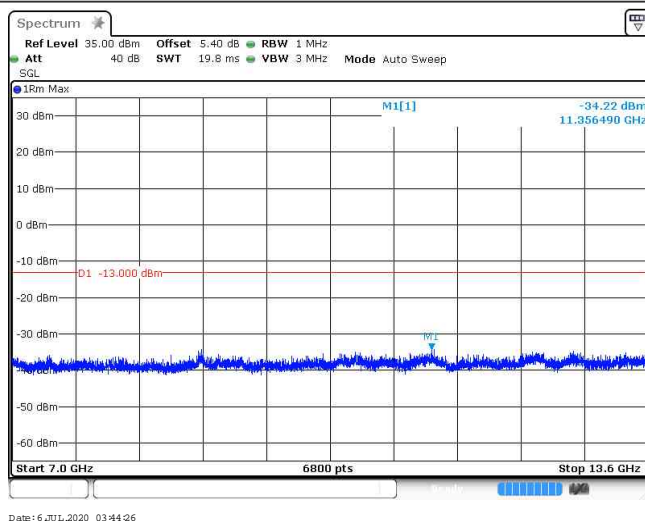


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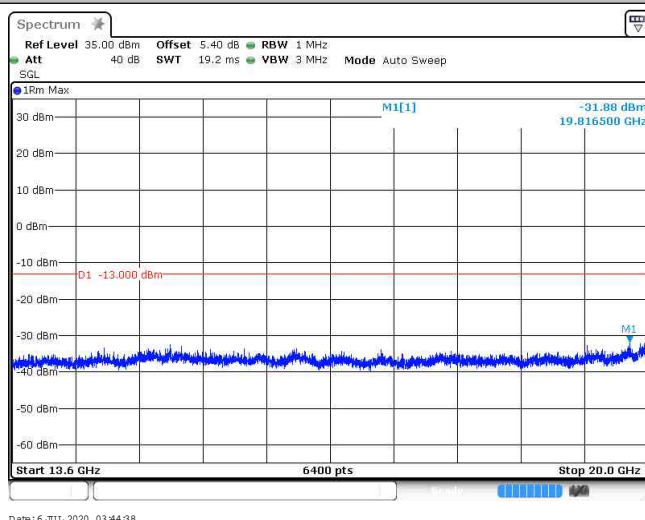


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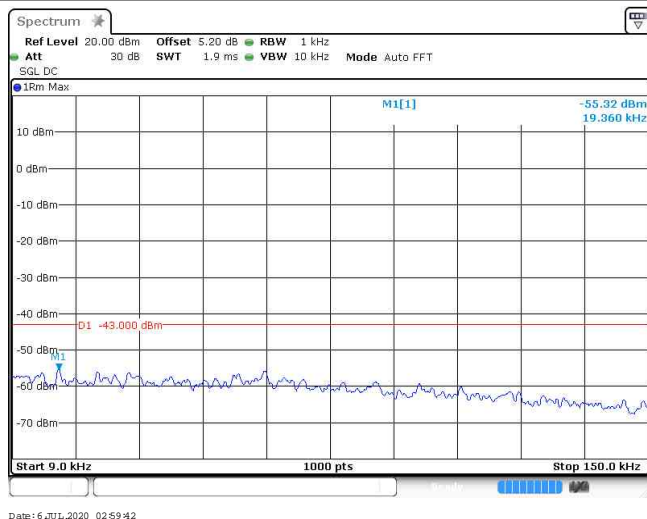


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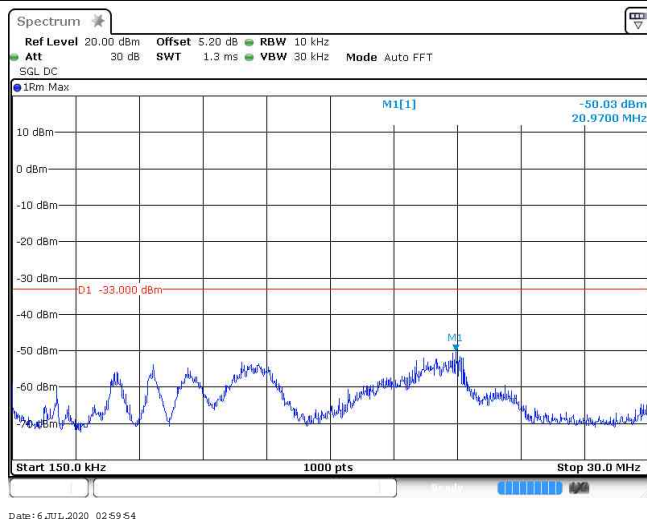




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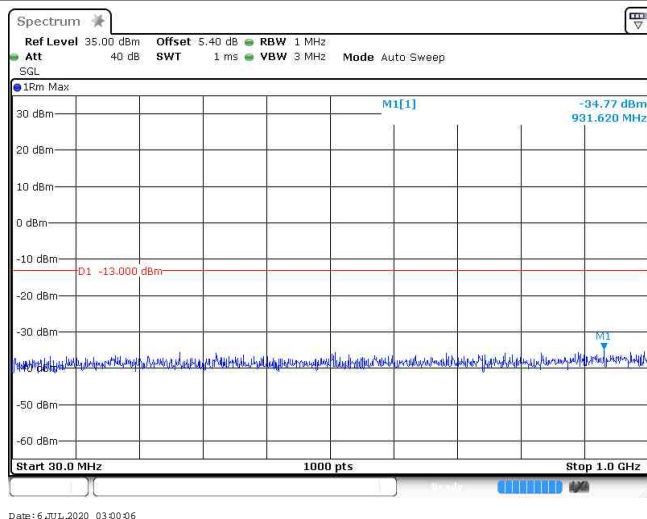


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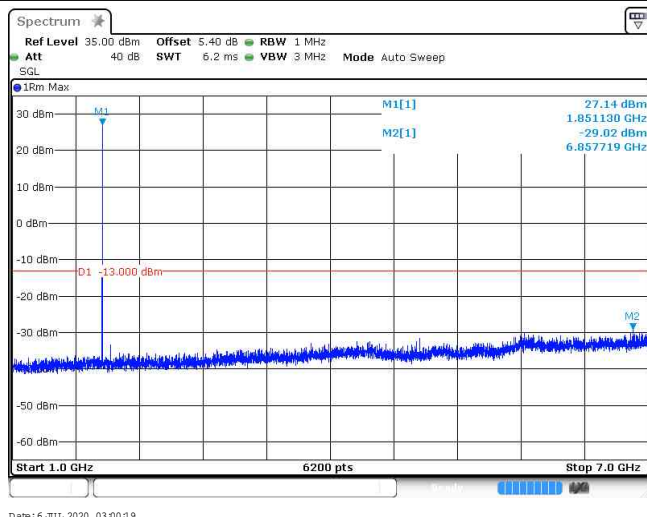


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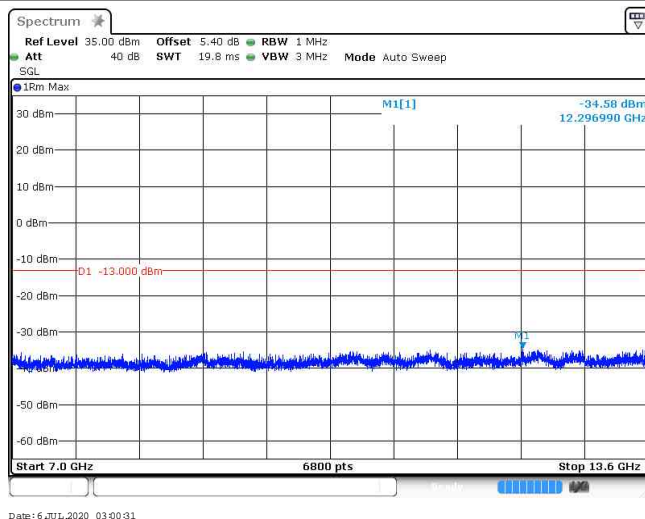
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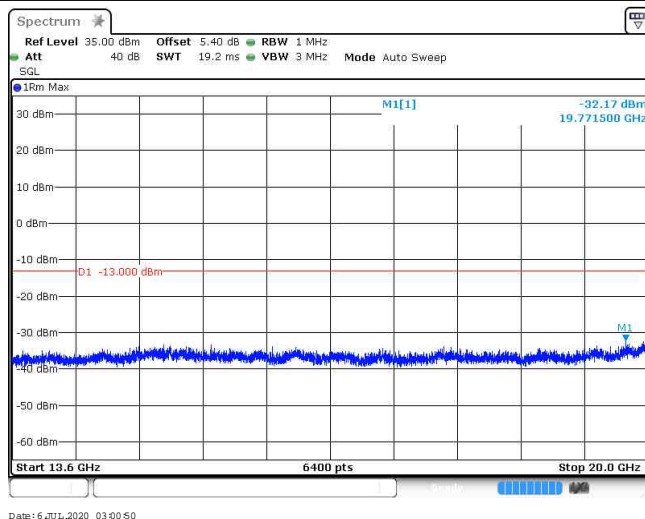
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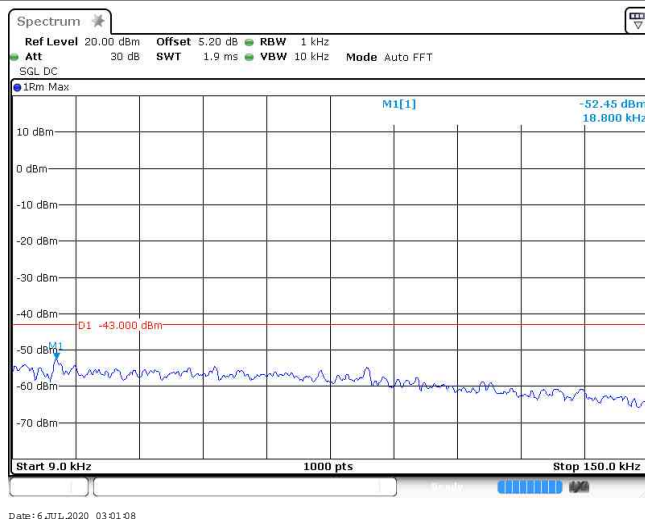
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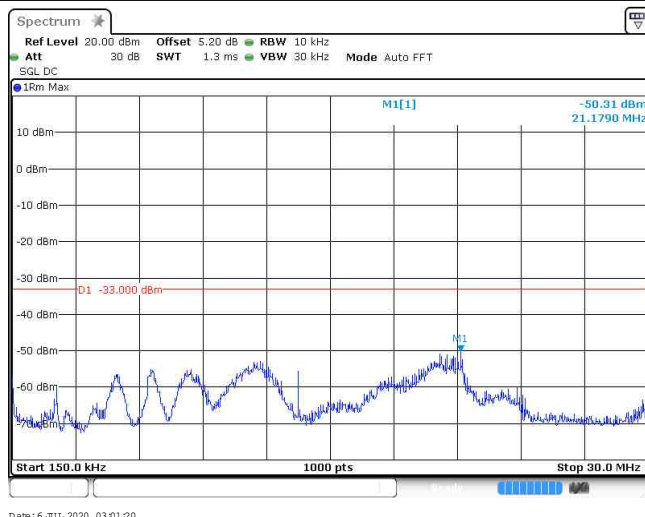
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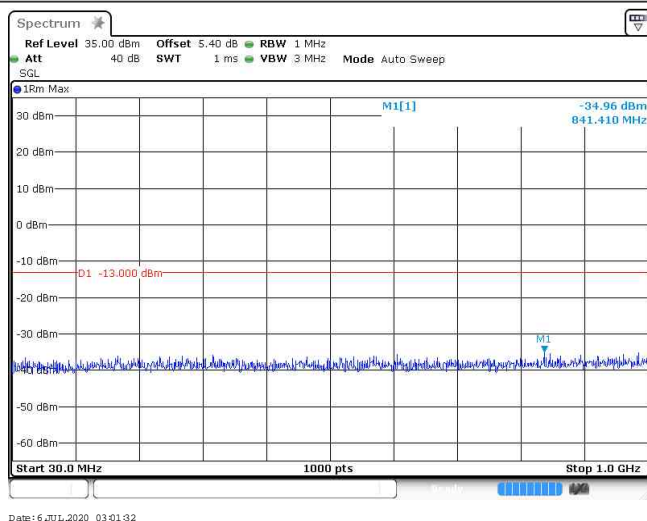


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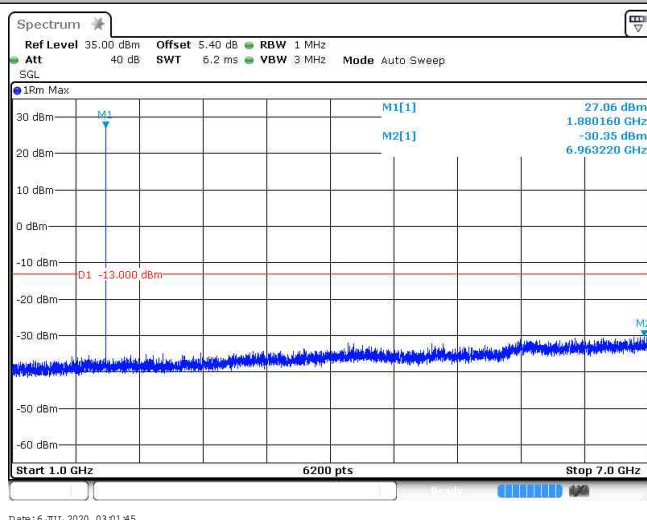




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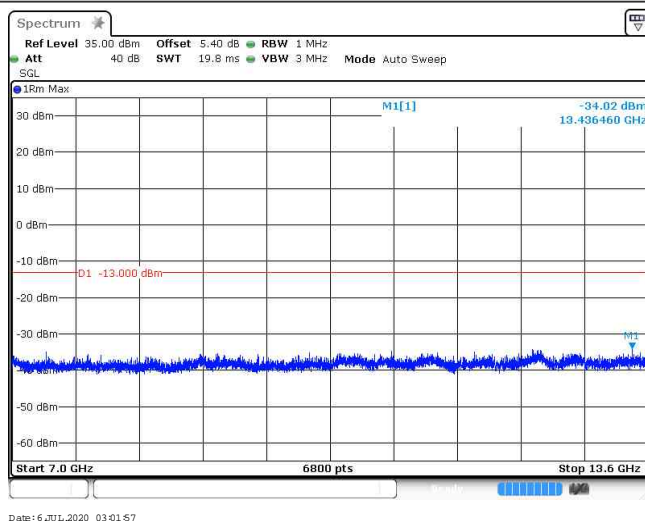
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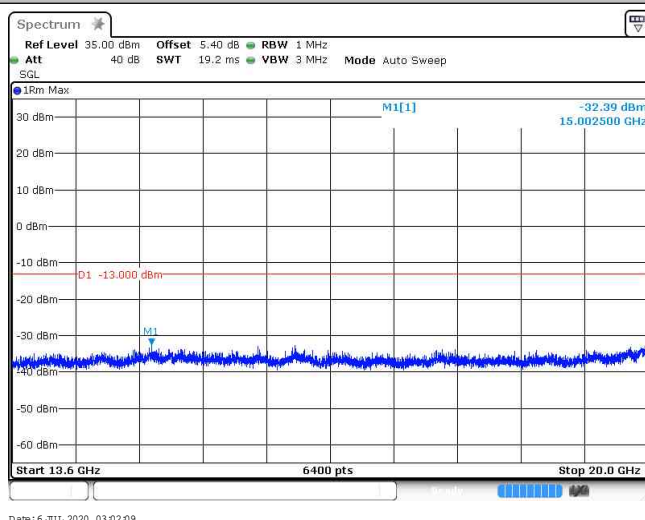
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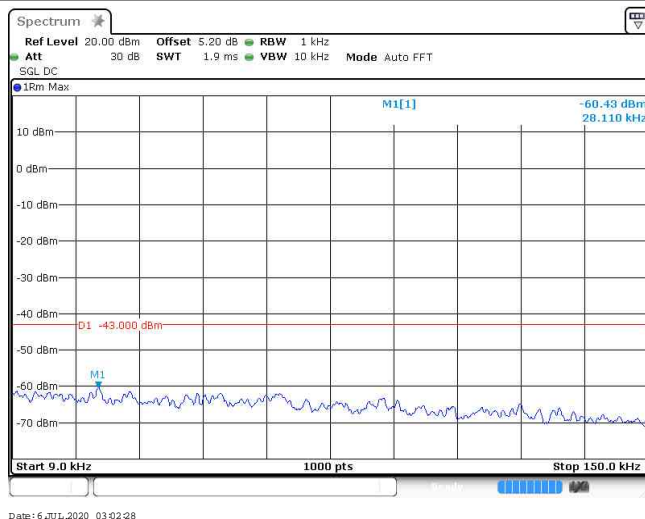


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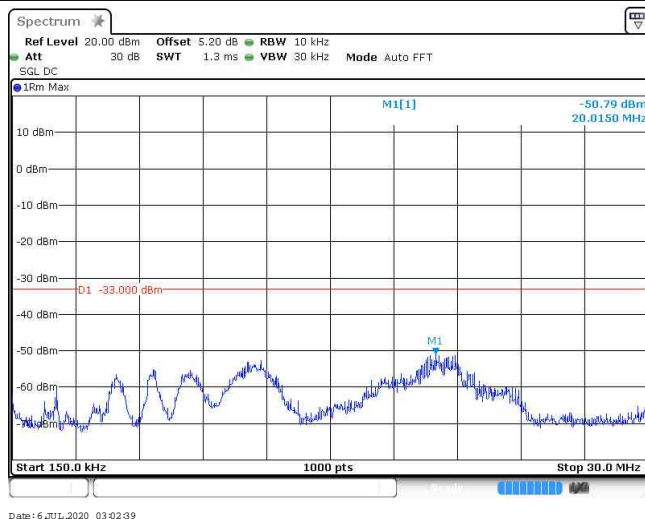




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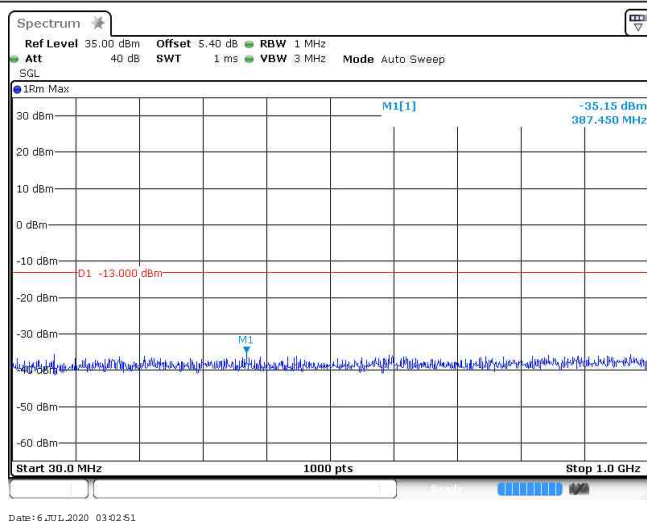


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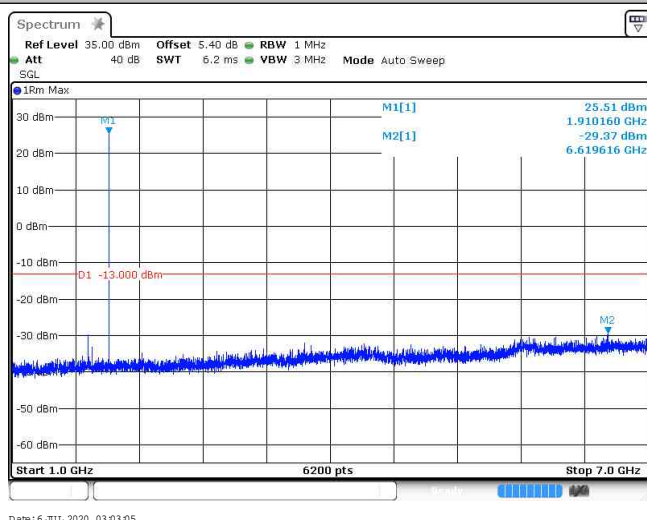
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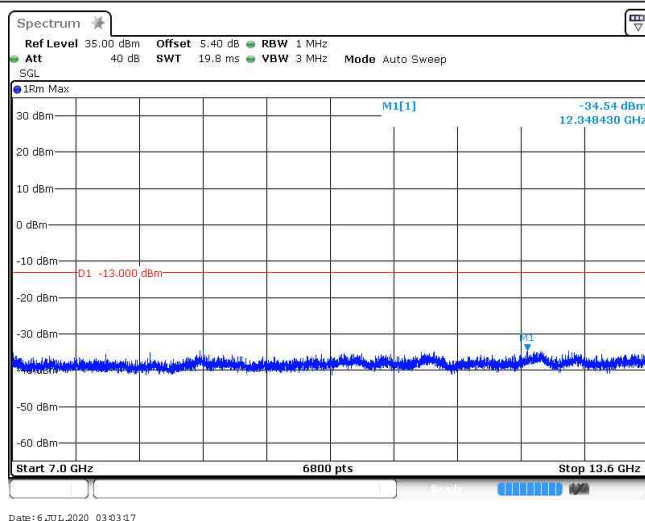


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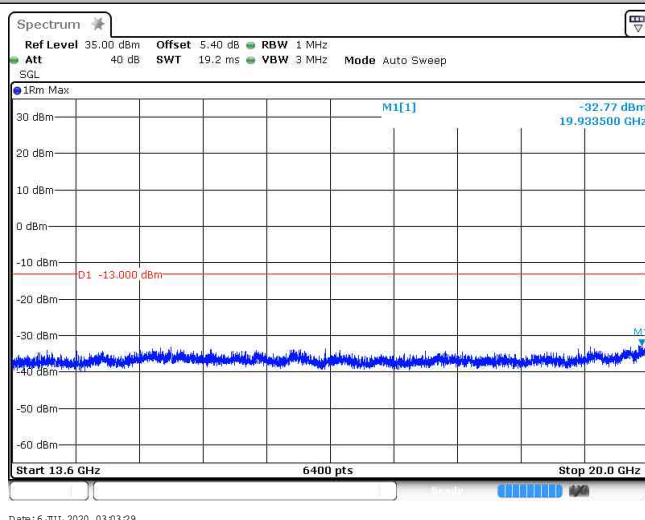




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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 109.2045 | -64.99 | -13.00 | 51.99 | Vertical |
| 2697.5395 | -37.70 | -13.00 | 24.70 | Vertical |
| 3700.5234 | -52.38 | -13.00 | 39.38 | Vertical |
| 5550.5850 | -49.54 | -13.00 | 36.54 | Vertical |
| 14476.3825 | -47.31 | -13.00 | 34.31 | Vertical |
| 17999.0000 | -39.38 | -13.00 | 26.38 | Vertical |
| 40.5250 | -63.72 | -13.00 | 50.72 | Horizontal |
| 2704.3409 | -36.48 | -13.00 | 23.48 | Horizontal |
| 3700.5234 | -38.85 | -13.00 | 25.85 | Horizontal |
| 5550.0850 | -37.83 | -13.00 | 24.83 | Horizontal |
| 16388.4463 | -43.89 | -13.00 | 30.89 | Horizontal |
| 17998.5000 | -44.76 | -13.00 | 31.76 | Horizontal |

7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 109.8835 | -64.90 | -13.00 | 51.90 | Vertical |
| 2686.3373 | -37.66 | -13.00 | 24.66 | Vertical |
| 3760.0253 | -49.07 | -13.00 | 36.07 | Vertical |
| 5640.0880 | -47.46 | -13.00 | 34.46 | Vertical |
| 14447.3816 | -48.08 | -13.00 | 35.08 | Vertical |
| 17996.4999 | -40.01 | -13.00 | 27.01 | Vertical |
| 41.3496 | -64.79 | -13.00 | 51.79 | Horizontal |
| 2701.9404 | -36.43 | -13.00 | 23.43 | Horizontal |
| 3760.0253 | -44.87 | -13.00 | 31.87 | Horizontal |
| 5640.0880 | -46.58 | -13.00 | 33.58 | Horizontal |
| 16394.9465 | -43.80 | -13.00 | 30.80 | Horizontal |
| 17977.9993 | -44.84 | -13.00 | 31.84 | Horizontal |



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7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 106.9733 | -64.88 | -13.00 | 51.88 | Vertical |
| 2700.7401 | -37.47 | -13.00 | 24.47 | Vertical |
| 3819.5273 | -56.26 | -13.00 | 43.26 | Vertical |
| 5729.5910 | -44.43 | -13.00 | 31.43 | Vertical |
| 14462.3821 | -47.43 | -13.00 | 34.43 | Vertical |
| 17995.9999 | -39.99 | -13.00 | 26.99 | Vertical |
| 40.7675 | -64.32 | -13.00 | 51.32 | Horizontal |
| 2699.5399 | -36.37 | -13.00 | 23.37 | Horizontal |
| 3819.5273 | -56.25 | -13.00 | 43.25 | Horizontal |
| 5729.0910 | -44.89 | -13.00 | 31.89 | Horizontal |
| 16396.9466 | -43.58 | -13.00 | 30.58 | Horizontal |
| 17997.9999 | -44.27 | -13.00 | 31.27 | Horizontal |

7.2. Test Band = GSM 850

7.2.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 114.2972 | -64.82 | -13.00 | 51.82 | Vertical |
| 296.3753 | -67.70 | -13.00 | 54.70 | Vertical |
| 1648.5297 | -47.35 | -13.00 | 34.35 | Vertical |
| 2472.6945 | -51.04 | -13.00 | 38.04 | Vertical |
| 7362.6454 | -55.77 | -13.00 | 42.77 | Vertical |
| 17991.4997 | -40.20 | -13.00 | 27.20 | Vertical |
| -64.88 | -63.33 | -13.00 | 50.33 | Horizontal |
| -37.47 | -66.13 | -13.00 | 53.13 | Horizontal |
| -56.26 | -42.07 | -13.00 | 29.07 | Horizontal |
| -44.43 | -33.22 | -13.00 | 20.22 | Horizontal |
| -47.43 | -45.47 | -13.00 | 32.47 | Horizontal |
| -39.99 | -56.81 | -13.00 | 43.81 | Horizontal |



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7.2.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 109.7380 | -64.56 | -13.00 | 51.56 | Vertical |
| 377.1319 | -67.55 | -13.00 | 54.55 | Vertical |
| 1673.3347 | -59.13 | -13.00 | 46.13 | Vertical |
| 2509.9020 | -51.72 | -13.00 | 38.72 | Vertical |
| 3346.5116 | -61.44 | -13.00 | 48.44 | Vertical |
| 17999.0000 | -40.37 | -13.00 | 27.37 | Vertical |
| 41.1556 | -63.84 | -13.00 | 50.84 | Horizontal |
| 232.6916 | -67.62 | -13.00 | 54.62 | Horizontal |
| 1673.3347 | -52.85 | -13.00 | 39.85 | Horizontal |
| 2509.9020 | -38.40 | -13.00 | 25.40 | Horizontal |
| 3346.5116 | -45.44 | -13.00 | 32.44 | Horizontal |
| 17997.4999 | -45.16 | -13.00 | 32.16 | Horizontal |

7.2.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 108.0404 | -64.42 | -13.00 | 51.42 | Vertical |
| 1697.3395 | -62.56 | -13.00 | 49.56 | Vertical |
| 2546.3093 | -51.93 | -13.00 | 38.93 | Vertical |
| 9323.7108 | -51.83 | -13.00 | 38.83 | Vertical |
| 14500.3833 | -47.88 | -13.00 | 34.88 | Vertical |
| 17998.5000 | -40.01 | -13.00 | 27.01 | Vertical |
| 44.3082 | -63.30 | -13.00 | 50.30 | Horizontal |
| 238.1239 | -67.38 | -13.00 | 54.38 | Horizontal |
| 1697.3395 | -58.01 | -13.00 | 45.01 | Horizontal |
| 2546.7093 | -45.61 | -13.00 | 32.61 | Horizontal |
| 3395.0132 | -48.48 | -13.00 | 35.48 | Horizontal |
| 16389.9463 | -44.00 | -13.00 | 31.00 | 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

| Voltage | | | | | | | |
|-----------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850 | 128 | VL | TN | 12.40 | 0.015045 | ±2.5 | PASS |
| GSM850 | 128 | VN | TN | 6.70 | 0.008125 | ±2.5 | PASS |
| GSM850 | 128 | VH | TN | 9.36 | 0.011360 | ±2.5 | PASS |
| GSM850 | 190 | VL | TN | -5.85 | -0.006994 | ±2.5 | PASS |
| GSM850 | 190 | VN | TN | -1.59 | -0.001906 | ±2.5 | PASS |
| GSM850 | 190 | VH | TN | 7.41 | 0.008863 | ±2.5 | PASS |
| GSM850 | 251 | VL | TN | 0.47 | 0.000548 | ±2.5 | PASS |
| GSM850 | 251 | VN | TN | 12.45 | 0.014669 | ±2.5 | PASS |
| GSM850 | 251 | VH | TN | -2.15 | -0.002539 | ±2.5 | PASS |
| EGPRS850 | 128 | VL | TN | 4.44 | 0.005386 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | TN | -1.96 | -0.002373 | ±2.5 | PASS |
| EGPRS850 | 128 | VH | TN | -0.45 | -0.000552 | ±2.5 | PASS |
| EGPRS850 | 190 | VL | TN | -6.90 | -0.008253 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | TN | -2.29 | -0.002732 | ±2.5 | PASS |
| EGPRS850 | 190 | VH | TN | 11.04 | 0.013198 | ±2.5 | PASS |
| EGPRS850 | 251 | VL | TN | -12.11 | -0.014269 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | TN | -0.72 | -0.000850 | ±2.5 | PASS |
| EGPRS850 | 251 | VH | TN | 9.30 | 0.010956 | ±2.5 | PASS |
| GSM1900 | 512 | VL | TN | 12.41 | 0.006709 | ±2.5 | PASS |
| GSM1900 | 512 | VN | TN | 10.98 | 0.005933 | ±2.5 | PASS |
| GSM1900 | 512 | VH | TN | 10.33 | 0.005584 | ±2.5 | PASS |
| GSM1900 | 661 | VL | TN | 12.57 | 0.006688 | ±2.5 | PASS |
| GSM1900 | 661 | VN | TN | -12.93 | -0.006876 | ±2.5 | PASS |
| GSM1900 | 661 | VH | TN | 8.78 | 0.004672 | ±2.5 | PASS |
| GSM1900 | 810 | VL | TN | -14.63 | -0.007660 | ±2.5 | PASS |
| GSM1900 | 810 | VN | TN | -5.94 | -0.003111 | ±2.5 | PASS |
| GSM1900 | 810 | VH | TN | 14.95 | 0.007826 | ±2.5 | PASS |
| EGPRS1900 | 512 | VL | TN | 7.45 | 0.004028 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | TN | -11.09 | -0.005995 | ±2.5 | PASS |
| EGPRS1900 | 512 | VH | TN | -8.19 | -0.004427 | ±2.5 | PASS |



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| | | | | | | | |
|-----------|-----|----|----|-------|-----------|------|------|
| EGPRS1900 | 661 | VL | TN | -6.44 | -0.003423 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | TN | 11.42 | 0.006075 | ±2.5 | PASS |
| EGPRS1900 | 661 | VH | TN | -0.79 | -0.000421 | ±2.5 | PASS |
| EGPRS1900 | 810 | VL | TN | -5.55 | -0.002909 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | TN | -3.33 | -0.001744 | ±2.5 | PASS |
| EGPRS1900 | 810 | VH | TN | -9.83 | -0.005149 | ±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 | 11.20 | 0.013589 | ±2.5 | PASS |
| GSM850 | 128 | VN | -20 | 3.34 | 0.004052 | ±2.5 | PASS |
| GSM850 | 128 | VN | -10 | -9.56 | -0.011598 | ±2.5 | PASS |
| GSM850 | 128 | VN | 0 | -7.08 | -0.008589 | ±2.5 | PASS |
| GSM850 | 128 | VN | 10 | -0.48 | -0.000581 | ±2.5 | PASS |
| GSM850 | 128 | VN | 20 | -11.79 | -0.014308 | ±2.5 | PASS |
| GSM850 | 128 | VN | 30 | 5.32 | 0.006461 | ±2.5 | PASS |
| GSM850 | 128 | VN | 40 | 7.15 | 0.008671 | ±2.5 | PASS |
| GSM850 | 128 | VN | 50 | -13.31 | -0.016152 | ±2.5 | PASS |
| GSM850 | 190 | VN | -30 | -9.74 | -0.011643 | ±2.5 | PASS |
| GSM850 | 190 | VN | -20 | -3.62 | -0.004323 | ±2.5 | PASS |
| GSM850 | 190 | VN | -10 | 5.79 | 0.006916 | ±2.5 | PASS |
| GSM850 | 190 | VN | 0 | -13.92 | -0.016641 | ±2.5 | PASS |
| GSM850 | 190 | VN | 10 | 8.55 | 0.010221 | ±2.5 | PASS |
| GSM850 | 190 | VN | 20 | -4.28 | -0.005115 | ±2.5 | PASS |
| GSM850 | 190 | VN | 30 | -13.97 | -0.016695 | ±2.5 | PASS |
| GSM850 | 190 | VN | 40 | 6.37 | 0.007609 | ±2.5 | PASS |
| GSM850 | 190 | VN | 50 | -7.95 | -0.009503 | ±2.5 | PASS |
| GSM850 | 251 | VN | -30 | 6.24 | 0.007346 | ±2.5 | PASS |
| GSM850 | 251 | VN | -20 | 3.02 | 0.003552 | ±2.5 | PASS |
| GSM850 | 251 | VN | -10 | 14.98 | 0.017649 | ±2.5 | PASS |
| GSM850 | 251 | VN | 0 | 13.68 | 0.016123 | ±2.5 | PASS |
| GSM850 | 251 | VN | 10 | 6.65 | 0.007838 | ±2.5 | PASS |
| GSM850 | 251 | VN | 20 | 14.49 | 0.017067 | ±2.5 | PASS |
| GSM850 | 251 | VN | 30 | 8.98 | 0.010581 | ±2.5 | PASS |



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| | | | | | | | |
|----------|-----|----|-----|--------|-----------|------|------|
| GSM850 | 251 | VN | 40 | 12.59 | 0.014837 | ±2.5 | PASS |
| GSM850 | 251 | VN | 50 | -0.62 | -0.000732 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | -30 | -5.54 | -0.006716 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | -20 | -13.50 | -0.016377 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | -10 | 1.18 | 0.001428 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 0 | 5.78 | 0.007015 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 10 | 10.22 | 0.012403 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 20 | 6.30 | 0.007647 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 30 | -0.86 | -0.001047 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 40 | 6.80 | 0.008254 | ±2.5 | PASS |
| EGPRS850 | 128 | VN | 50 | 1.77 | 0.002142 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | -30 | 9.05 | 0.010814 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | -20 | -13.67 | -0.016344 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | -10 | 1.64 | 0.001960 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 0 | -3.37 | -0.004027 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 10 | -12.27 | -0.014665 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 20 | -8.12 | -0.009710 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 30 | -5.24 | -0.006262 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 40 | -13.52 | -0.016155 | ±2.5 | PASS |
| EGPRS850 | 190 | VN | 50 | -13.06 | -0.015608 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | -30 | 6.62 | 0.007794 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | -20 | 8.75 | 0.010314 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | -10 | 7.19 | 0.008473 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 0 | 0.13 | 0.000157 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 10 | -8.56 | -0.010086 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 20 | -6.51 | -0.007665 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 30 | 7.37 | 0.008688 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 40 | -9.75 | -0.011487 | ±2.5 | PASS |
| EGPRS850 | 251 | VN | 50 | -8.36 | -0.009847 | ±2.5 | PASS |
| GSM1900 | 512 | VN | -30 | -4.16 | -0.002246 | ±2.5 | PASS |
| GSM1900 | 512 | VN | -20 | 9.26 | 0.005007 | ±2.5 | PASS |
| GSM1900 | 512 | VN | -10 | -0.26 | -0.000140 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 0 | 9.00 | 0.004865 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 10 | 6.52 | 0.003524 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 20 | 13.09 | 0.007078 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 30 | -1.03 | -0.000557 | ±2.5 | PASS |
| GSM1900 | 512 | VN | 40 | -8.64 | -0.004671 | ±2.5 | PASS |



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| | | | | | | | |
|-----------|-----|----|-----|--------|-----------|------|------|
| GSM1900 | 512 | VN | 50 | 4.62 | 0.002496 | ±2.5 | PASS |
| GSM1900 | 661 | VN | -30 | 4.46 | 0.002373 | ±2.5 | PASS |
| GSM1900 | 661 | VN | -20 | -5.83 | -0.003100 | ±2.5 | PASS |
| GSM1900 | 661 | VN | -10 | 13.92 | 0.007402 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 0 | 9.84 | 0.005233 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 10 | -8.11 | -0.004314 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 20 | 7.00 | 0.003725 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 30 | 12.79 | 0.006804 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 40 | 4.44 | 0.002364 | ±2.5 | PASS |
| GSM1900 | 661 | VN | 50 | 13.06 | 0.006948 | ±2.5 | PASS |
| GSM1900 | 810 | VN | -30 | -1.17 | -0.000614 | ±2.5 | PASS |
| GSM1900 | 810 | VN | -20 | 2.14 | 0.001119 | ±2.5 | PASS |
| GSM1900 | 810 | VN | -10 | 12.11 | 0.006343 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 0 | 8.62 | 0.004515 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 10 | -14.75 | -0.007725 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 20 | -9.26 | -0.004848 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 30 | -3.65 | -0.001911 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 40 | 2.33 | 0.001222 | ±2.5 | PASS |
| GSM1900 | 810 | VN | 50 | -10.65 | -0.005579 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | -30 | -8.27 | -0.004472 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | -20 | -6.20 | -0.003351 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | -10 | -9.51 | -0.005142 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 0 | -4.59 | -0.002478 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 10 | -9.35 | -0.005052 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 20 | -5.92 | -0.003198 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 30 | -14.85 | -0.008026 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 40 | -11.78 | -0.006365 | ±2.5 | PASS |
| EGPRS1900 | 512 | VN | 50 | -1.37 | -0.000740 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | -30 | -11.42 | -0.006076 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | -20 | -7.53 | -0.004007 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | -10 | 10.19 | 0.005422 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 0 | -1.13 | -0.000603 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 10 | 4.80 | 0.002551 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 20 | 13.66 | 0.007264 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 30 | -13.87 | -0.007380 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 40 | 4.06 | 0.002158 | ±2.5 | PASS |
| EGPRS1900 | 661 | VN | 50 | 11.83 | 0.006292 | ±2.5 | PASS |



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| | | | | | | | |
|-----------|-----|----|-----|-------|-----------|------|------|
| EGPRS1900 | 810 | VN | -30 | 1.60 | 0.000840 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | -20 | -2.68 | -0.001401 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | -10 | 13.51 | 0.007072 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 0 | 5.03 | 0.002636 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 10 | -0.46 | -0.000239 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 20 | 5.83 | 0.003052 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 30 | 4.58 | 0.002399 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 40 | 14.21 | 0.007442 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | 50 | 5.89 | 0.003083 | ±2.5 | PASS |

The End



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