



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 | --- | 33.37 | 27.92 | 38.45 | PASS |
| GSM850 | 190 | --- | 33.20 | 27.75 | 38.45 | PASS |
| GSM850 | 251 | --- | 33.32 | 27.87 | 38.45 | PASS |
| EGPRS850 | 128 | 1 | 26.42 | 20.97 | 38.45 | PASS |
| EGPRS850 | 128 | 2 | 23.80 | 18.35 | 38.45 | PASS |
| EGPRS850 | 128 | 3 | 22.66 | 17.21 | 38.45 | PASS |
| EGPRS850 | 128 | 4 | 22.47 | 17.02 | 38.45 | PASS |
| EGPRS850 | 190 | 1 | 26.33 | 20.88 | 38.45 | PASS |
| EGPRS850 | 190 | 2 | 23.77 | 18.32 | 38.45 | PASS |
| EGPRS850 | 190 | 3 | 22.57 | 17.12 | 38.45 | PASS |
| EGPRS850 | 190 | 4 | 22.39 | 16.94 | 38.45 | PASS |
| EGPRS850 | 251 | 1 | 26.33 | 20.88 | 38.45 | PASS |
| EGPRS850 | 251 | 2 | 23.75 | 18.3 | 38.45 | PASS |
| EGPRS850 | 251 | 3 | 22.51 | 17.06 | 38.45 | PASS |
| EGPRS850 | 251 | 4 | 22.39 | 16.94 | 38.45 | PASS |

| Band | Channel | Slot | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|-----------|---------|------|-----------------------|------------|------------|---------|
| GSM1900 | 512 | --- | 29.87 | 28.81 | 33.00 | PASS |
| GSM1900 | 661 | --- | 29.75 | 28.69 | 33.00 | PASS |
| GSM1900 | 810 | --- | 29.36 | 28.30 | 33.00 | PASS |
| EGPRS1900 | 512 | 1 | 26.87 | 25.81 | 33.00 | PASS |
| EGPRS1900 | 512 | 2 | 24.15 | 23.09 | 33.00 | PASS |
| EGPRS1900 | 512 | 3 | 22.74 | 21.68 | 33.00 | PASS |
| EGPRS1900 | 512 | 4 | 21.74 | 20.68 | 33.00 | PASS |
| EGPRS1900 | 661 | 1 | 26.42 | 25.36 | 33.00 | PASS |
| EGPRS1900 | 661 | 2 | 24.34 | 23.28 | 33.00 | PASS |
| EGPRS1900 | 661 | 3 | 22.85 | 21.79 | 33.00 | PASS |
| EGPRS1900 | 661 | 4 | 21.80 | 20.74 | 33.00 | PASS |
| EGPRS1900 | 810 | 1 | 26.33 | 25.27 | 33.00 | PASS |
| EGPRS1900 | 810 | 2 | 24.24 | 23.18 | 33.00 | PASS |
| EGPRS1900 | 810 | 3 | 22.70 | 21.64 | 33.00 | PASS |
| EGPRS1900 | 810 | 4 | 21.55 | 20.49 | 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]



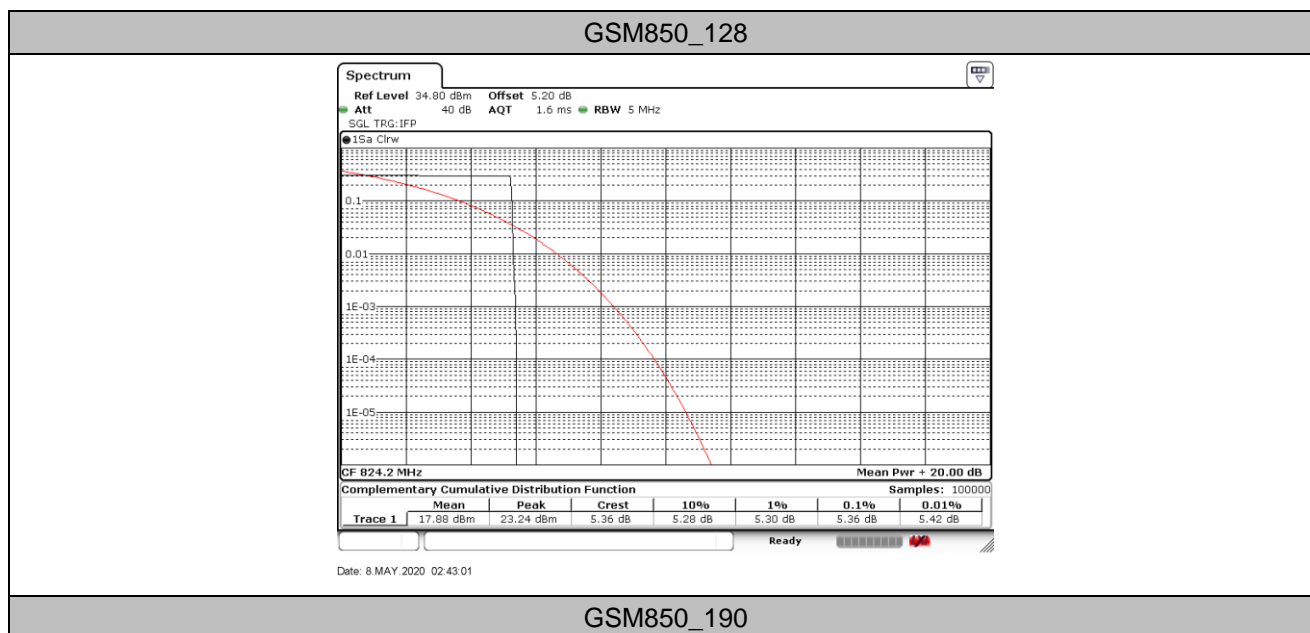
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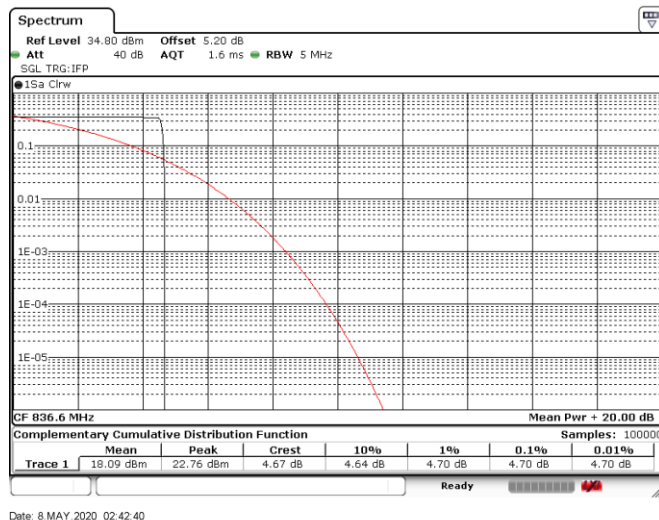
2. Peak-to-Average Ratio

2.1. Test Result

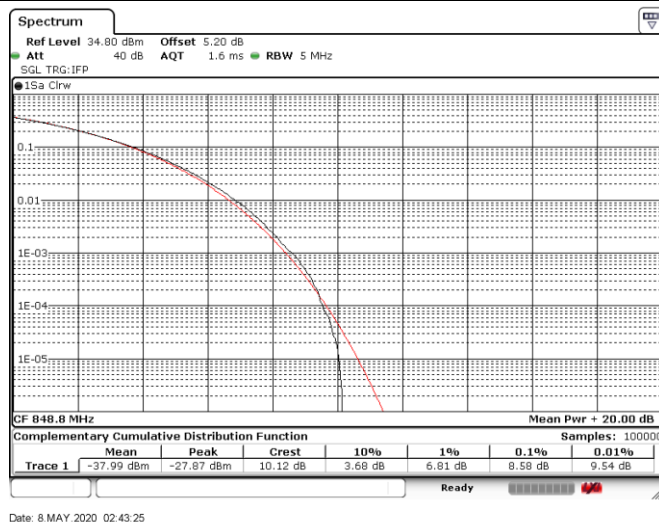
| Band | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-----------|---------|---------------------------|-----------|---------|
| GSM850 | 128 | 5.36 | 13 | PASS |
| GSM850 | 190 | 4.70 | 13 | PASS |
| GSM850 | 251 | 8.58 | 13 | PASS |
| EGPRS850 | 128 | 10.84 | 13 | PASS |
| EGPRS850 | 190 | 11.01 | 13 | PASS |
| EGPRS850 | 251 | 10.41 | 13 | PASS |
| GSM1900 | 512 | 7.74 | 13 | PASS |
| GSM1900 | 661 | 7.77 | 13 | PASS |
| GSM1900 | 810 | 7.71 | 13 | PASS |
| EGPRS1900 | 512 | 10.58 | 13 | PASS |
| EGPRS1900 | 661 | 10.49 | 13 | PASS |
| EGPRS1900 | 810 | 10.75 | 13 | PASS |

2.2. Part II - Test Plots



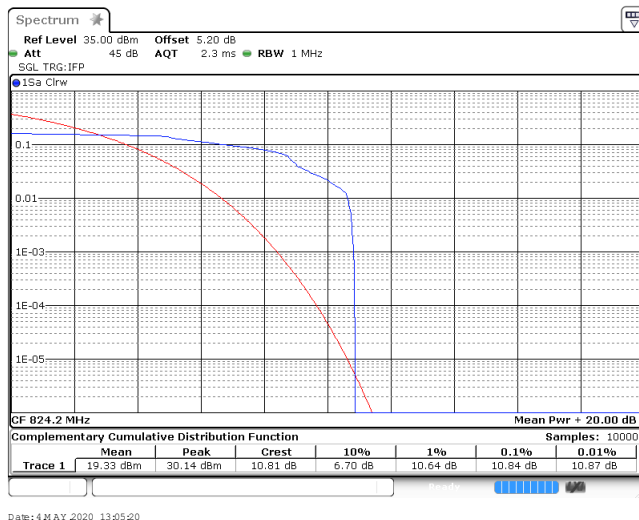


GSM850_251

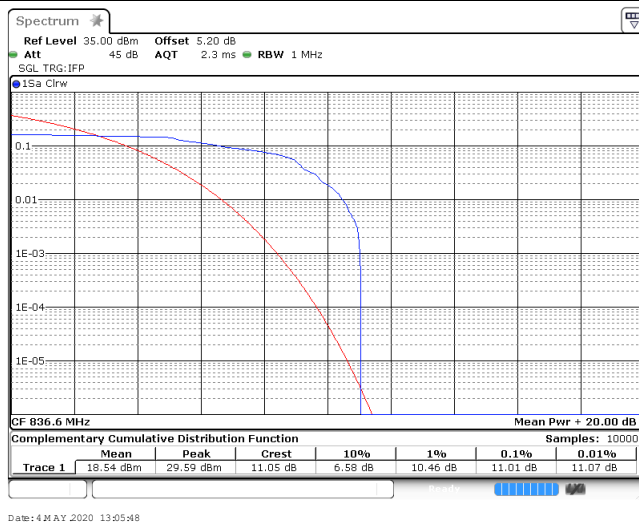


EGPRS850_128





EGPRS850_190

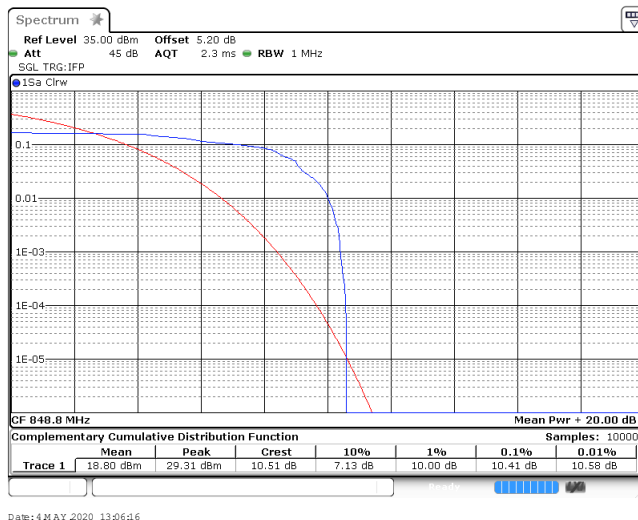


EGPRS850_251

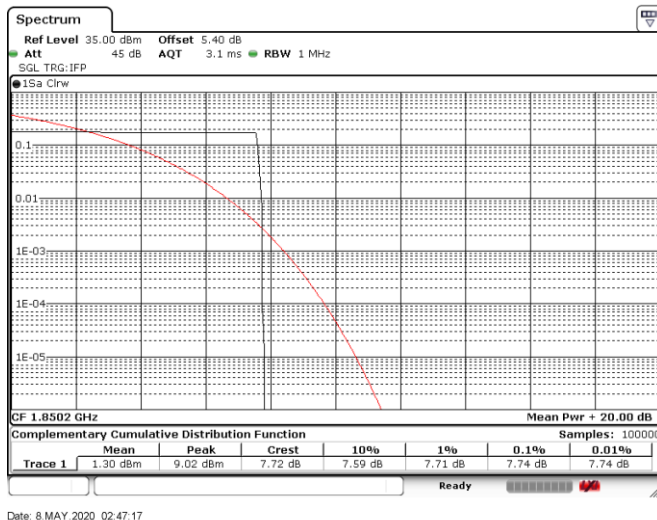


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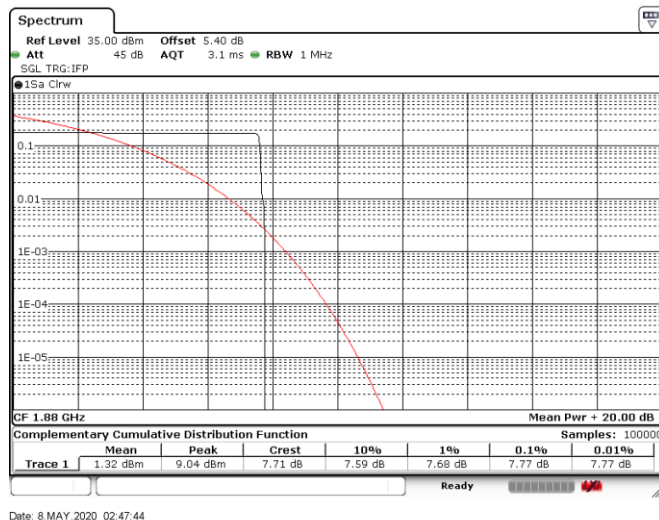


GSM1900_512

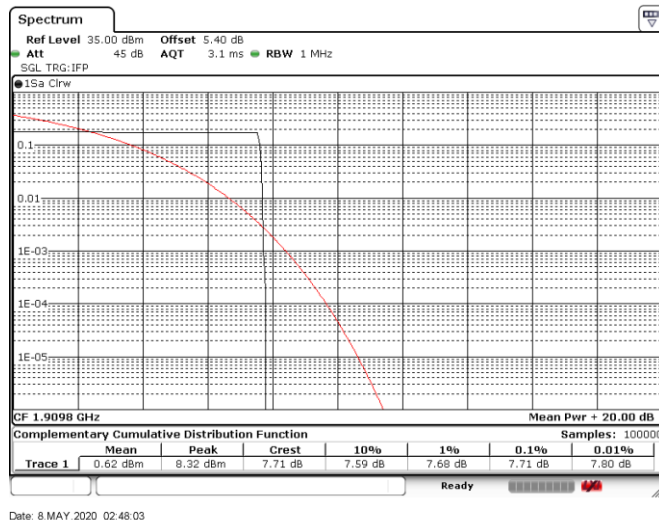


GSM1900_661



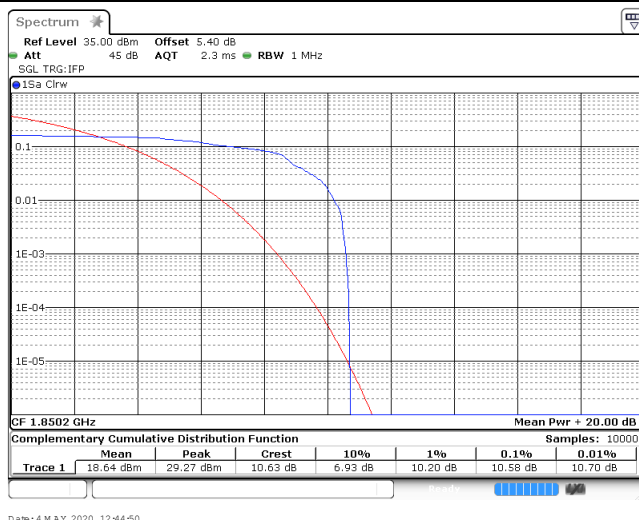


GSM1900_810

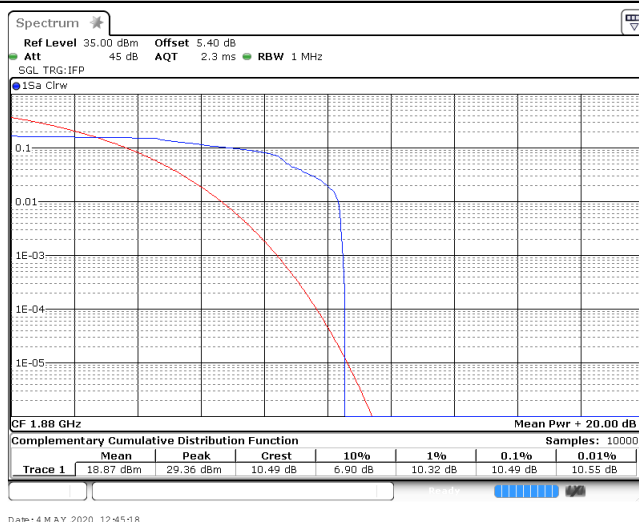


EGPRS1900_512





EGPRS1900_661

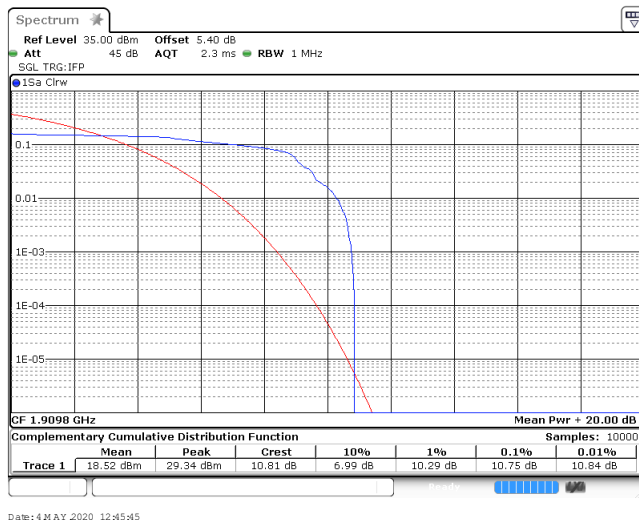


EGPRS1900_810



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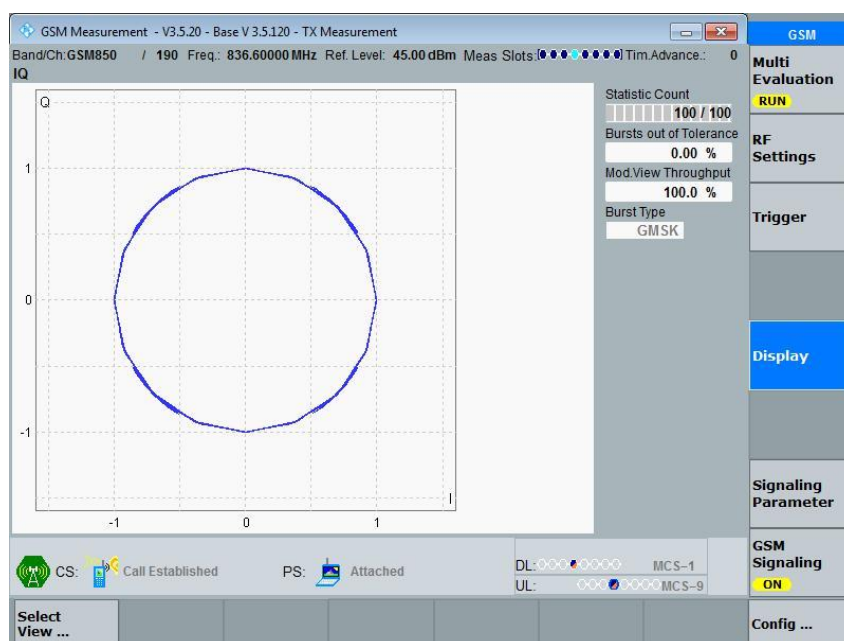
3. Modulation Characteristics

3.1.For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

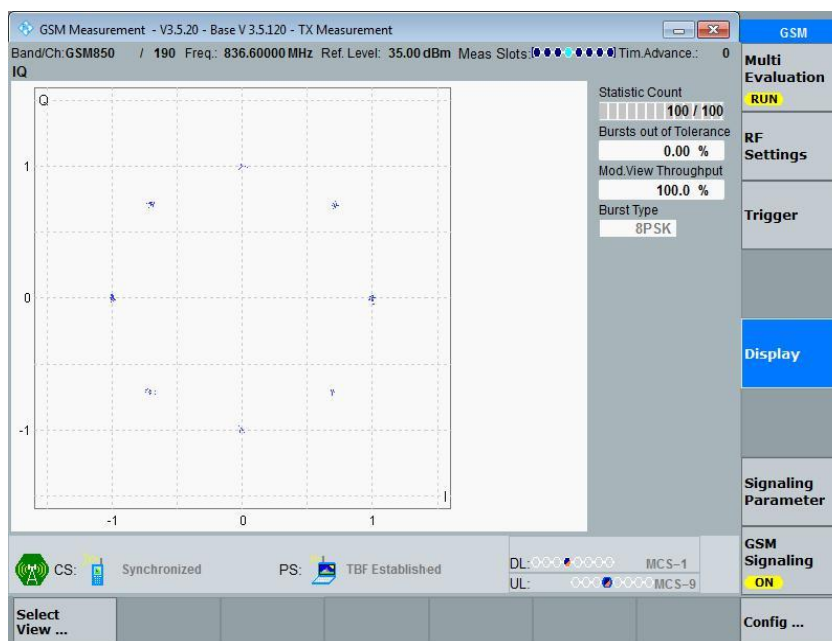
3.1.1.1.1. Test Channel = MCH





3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH

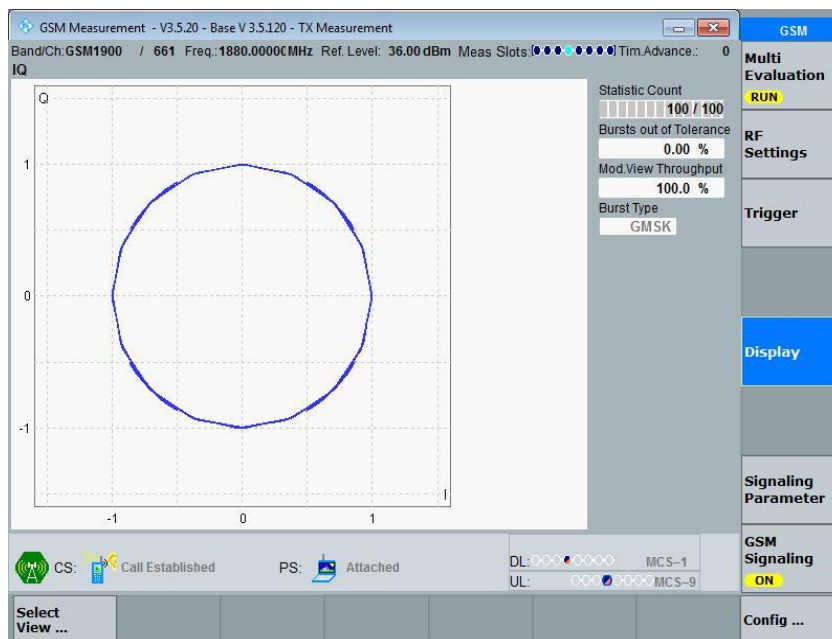




3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

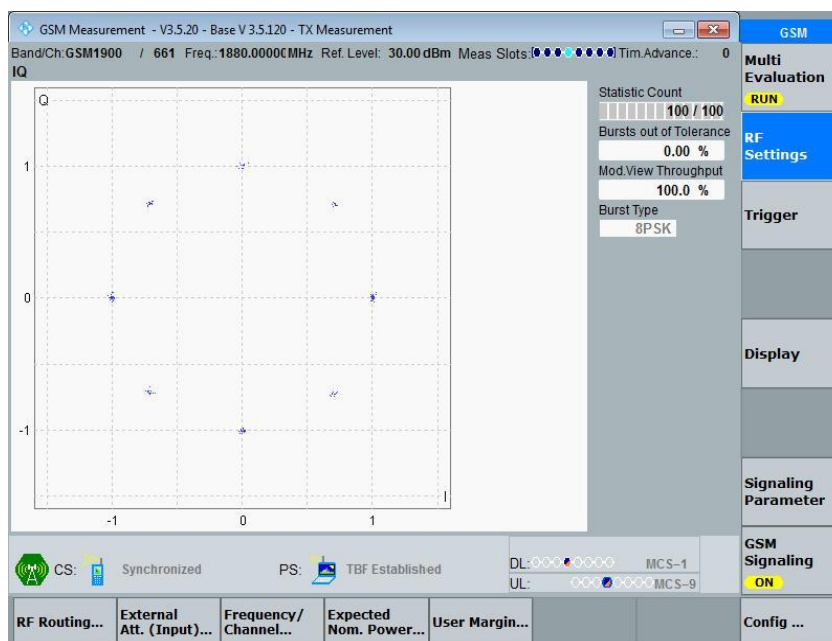
3.1.2.1.1. Test Channel = MCH





3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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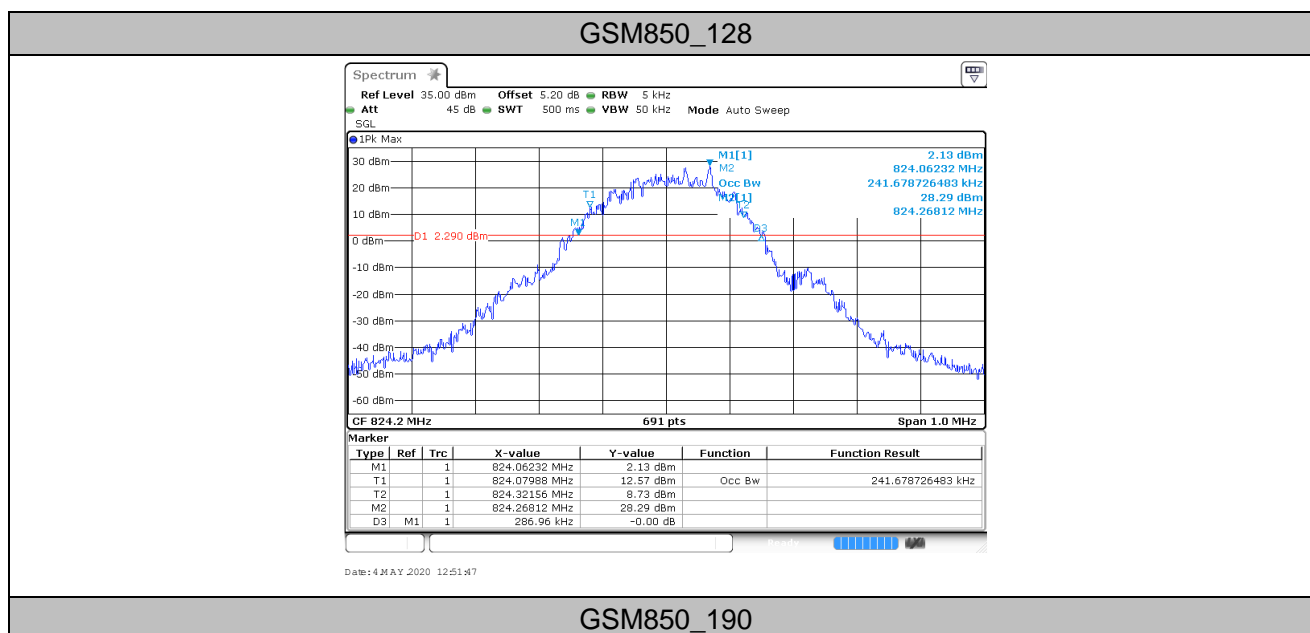


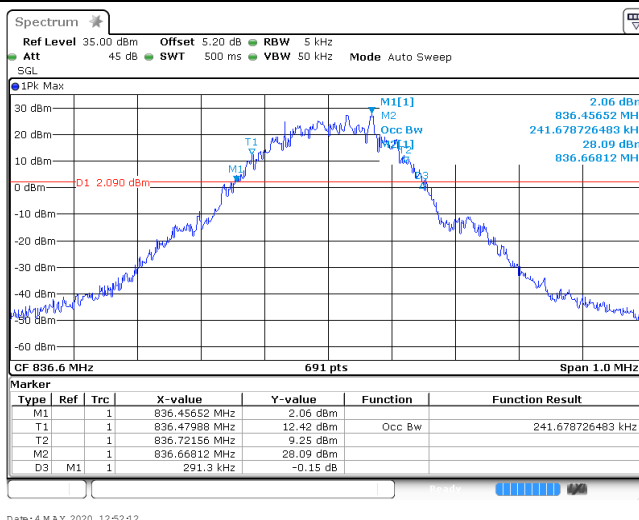
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

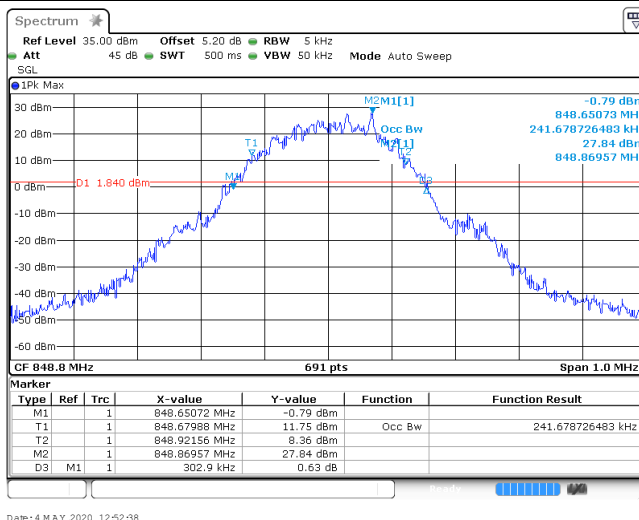
| Band | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-----------|---------|--------------------------|----------------------|------------|---------|
| GSM850 | 128 | 241.68 | 286.96 | --- | PASS |
| GSM850 | 190 | 241.68 | 291.30 | --- | PASS |
| GSM850 | 251 | 241.68 | 302.90 | --- | PASS |
| EGPRS850 | 128 | 246.02 | 305.80 | --- | PASS |
| EGPRS850 | 190 | 246.02 | 291.30 | --- | PASS |
| EGPRS850 | 251 | 243.13 | 291.30 | --- | PASS |
| GSM1900 | 512 | 241.68 | 297.10 | --- | PASS |
| GSM1900 | 661 | 243.13 | 285.51 | --- | PASS |
| GSM1900 | 810 | 241.68 | 294.20 | --- | PASS |
| EGPRS1900 | 512 | 251.81 | 292.75 | --- | PASS |
| EGPRS1900 | 661 | 246.02 | 300.00 | --- | PASS |
| EGPRS1900 | 810 | 244.57 | 297.10 | --- | PASS |

4.2. Test Plots



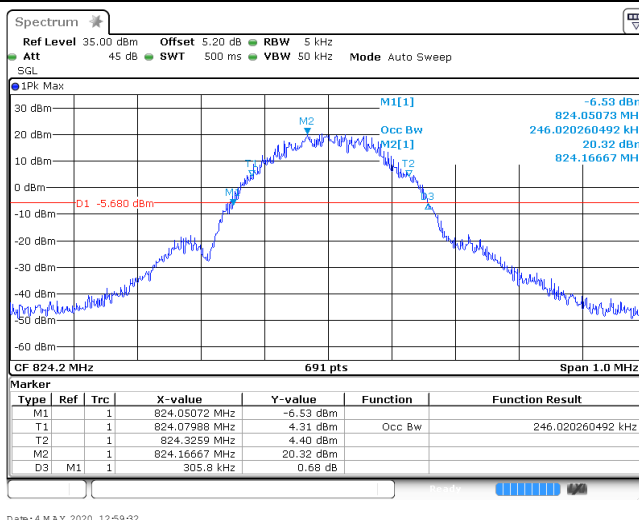


GSM850_251

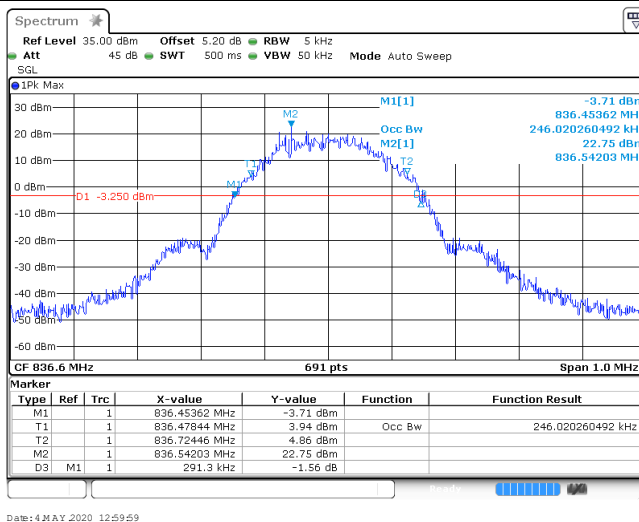


EGPRS850_128





EGPRS850_190

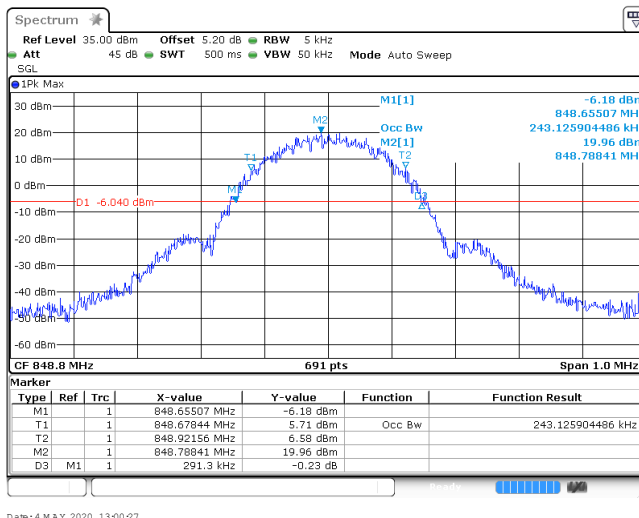


EGPRS850_251

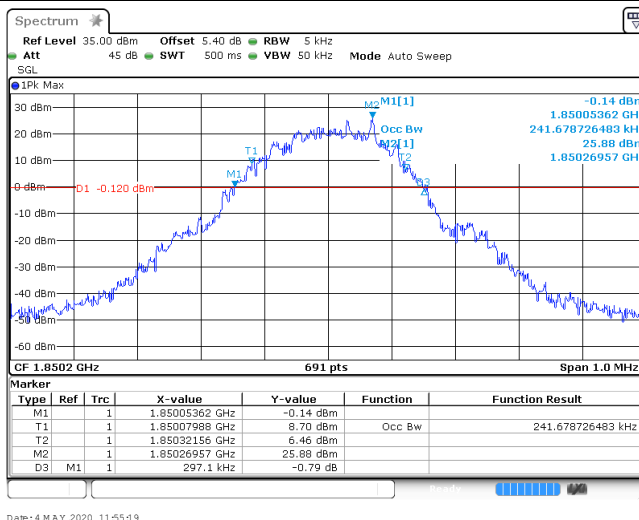


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GSM1900_512

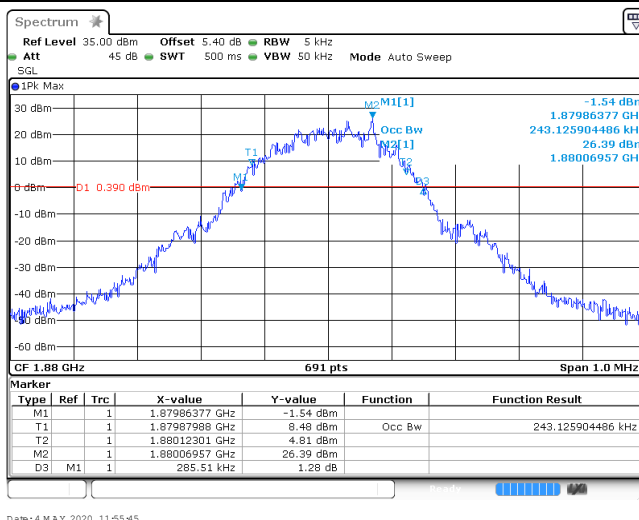


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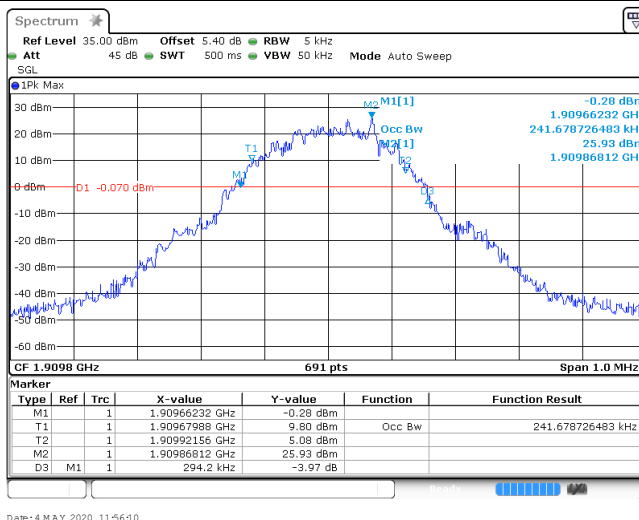


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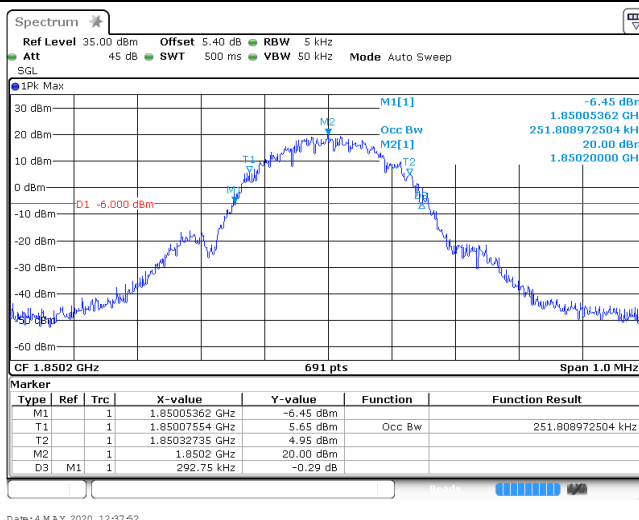


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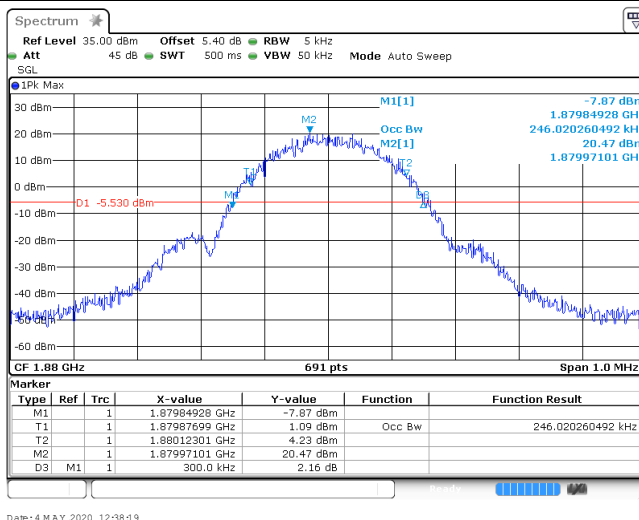


EGPRS1900_512





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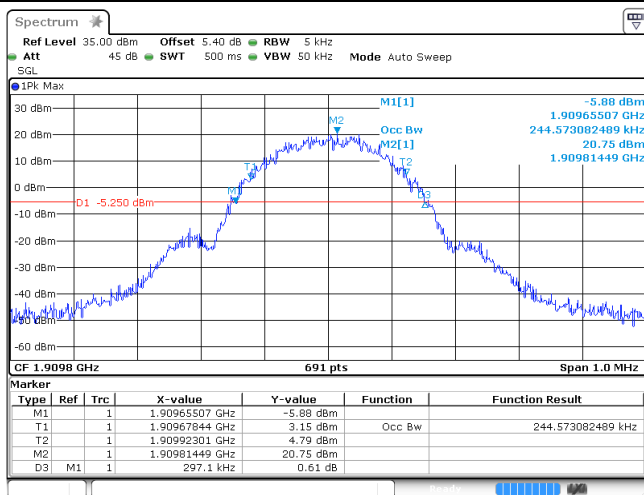


EGPRS1900_810



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Date: 4 MAY 2020 12:38:17



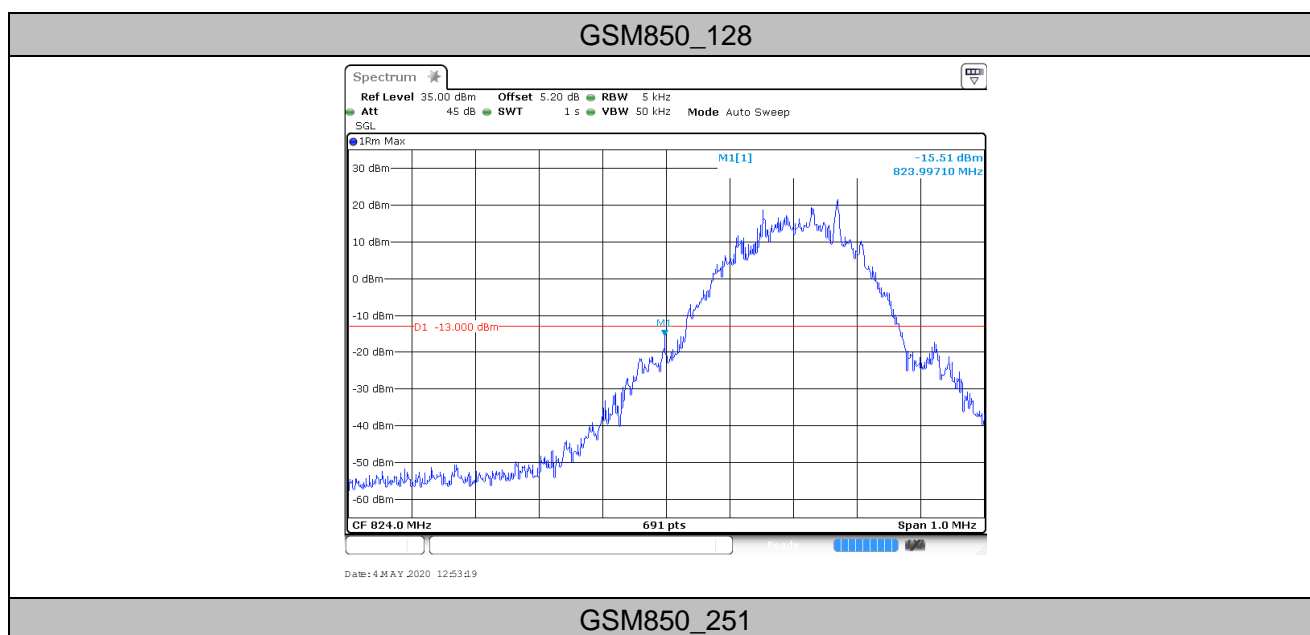


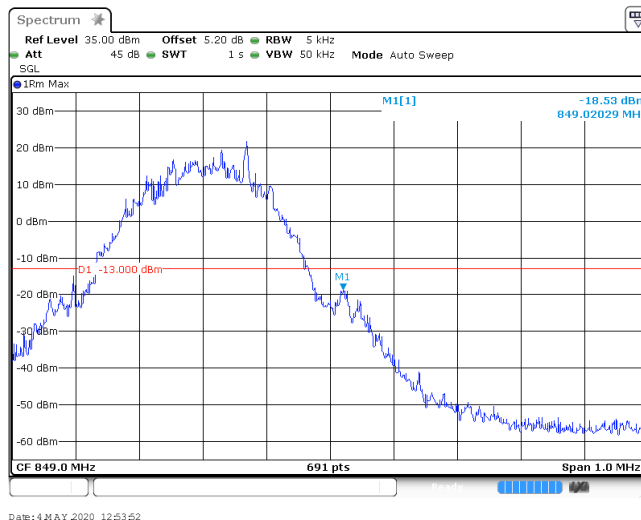
5. Band Edge Compliance

5.1. Test Result

| Band | Channel | Value(dBm) | Limit(dBm) | Verdict |
|-----------|---------|------------|------------|---------|
| GSM850 | 128 | -15.51 | -13 | PASS |
| GSM850 | 251 | -18.53 | -13 | PASS |
| EGPRS850 | 128 | -25.64 | -13 | PASS |
| EGPRS850 | 251 | -27.50 | -13 | PASS |
| GSM1900 | 512 | -18.93 | -13 | PASS |
| GSM1900 | 810 | -20.28 | -13 | PASS |
| EGPRS1900 | 512 | -24.91 | -13 | PASS |
| EGPRS1900 | 810 | -24.84 | -13 | PASS |

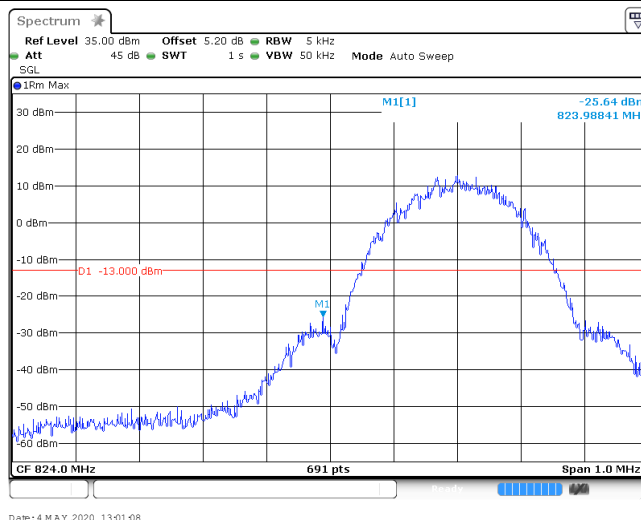
5.2. Test Plots





Date: 4 MAY 2020 12:53:52

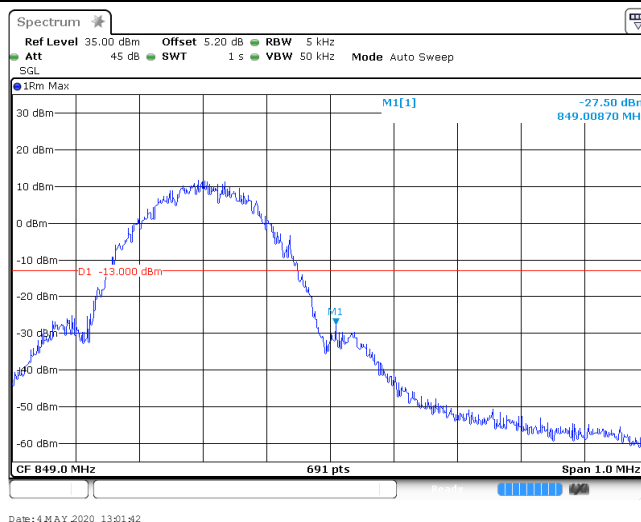
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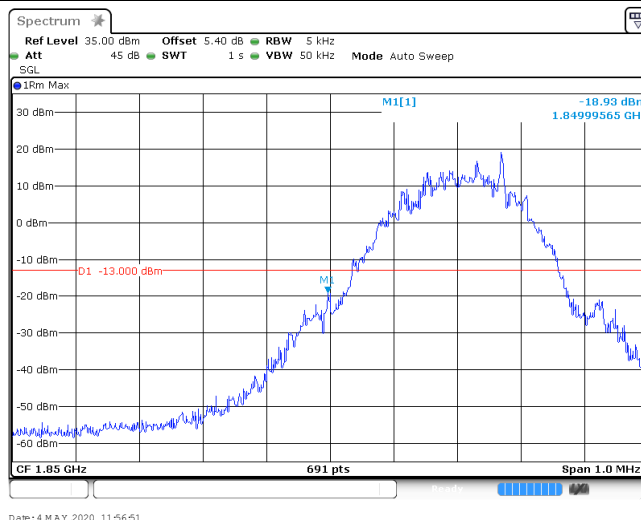
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EGPRS850_251





GSM1900_512

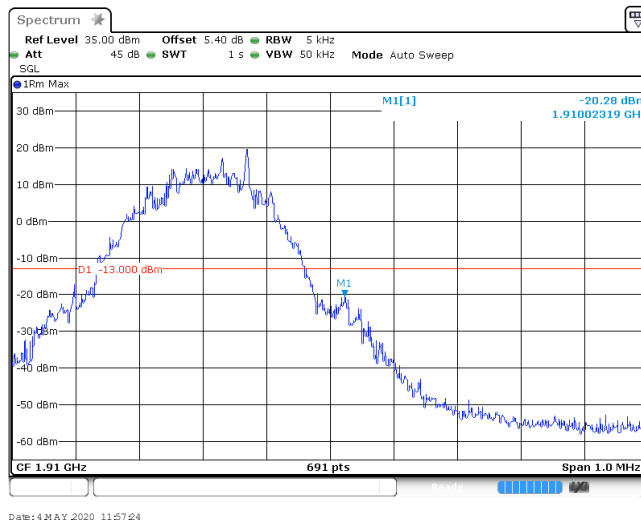


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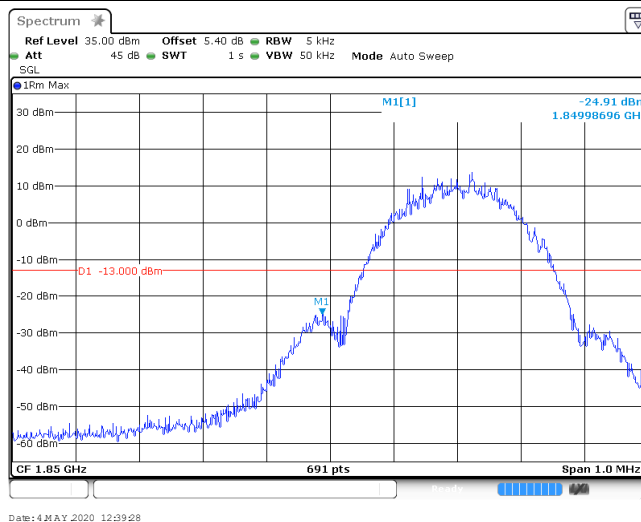


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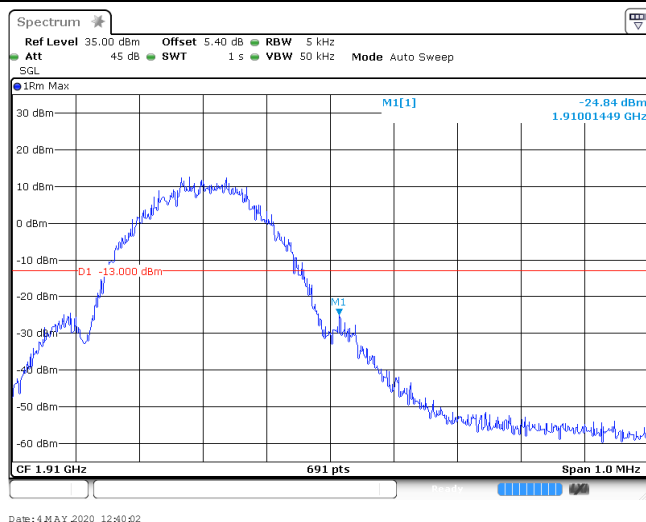


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6. Spurious Emission at Antenna Terminal

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 Result

| Band | Channel | Frequency Rang(Mhz) | Value(dBm) | Limit(dBm) | Verdict |
|----------|---------|---------------------|------------|------------|---------|
| GSM850 | 128 | 0.009~0.15 | -55.26 | -33 | PASS |
| GSM850 | 128 | 0.15~30 | -60.80 | -23 | PASS |
| GSM850 | 128 | 30~1000 | -34.81 | -13 | PASS |
| GSM850 | 128 | 1000~9000 | -33.23 | -13 | PASS |
| GSM850 | 190 | 0.009~0.15 | -55.41 | -33 | PASS |
| GSM850 | 190 | 0.15~30 | -62.31 | -23 | PASS |
| GSM850 | 190 | 30~1000 | -35.55 | -13 | PASS |
| GSM850 | 190 | 1000~9000 | -32.87 | -13 | PASS |
| GSM850 | 251 | 0.009~0.15 | -54.93 | -33 | PASS |
| GSM850 | 251 | 0.15~30 | -63.97 | -23 | PASS |
| GSM850 | 251 | 30~1000 | -34.92 | -13 | PASS |
| GSM850 | 251 | 1000~9000 | -33.17 | -13 | PASS |
| EGPRS850 | 128 | 0.009~0.15 | -55.99 | -43 | PASS |
| EGPRS850 | 128 | 0.15~30 | -61.91 | -33 | PASS |
| EGPRS850 | 128 | 30~1000 | -35.06 | -13 | PASS |
| EGPRS850 | 128 | 1000~9000 | -32.96 | -13 | PASS |
| EGPRS850 | 190 | 0.009~0.15 | -57.22 | -43 | PASS |
| EGPRS850 | 190 | 0.15~30 | -63.06 | -33 | PASS |
| EGPRS850 | 190 | 30~1000 | -35.33 | -13 | PASS |
| EGPRS850 | 190 | 1000~9000 | -32.84 | -13 | PASS |
| EGPRS850 | 251 | 0.009~0.15 | -57.29 | -43 | PASS |
| EGPRS850 | 251 | 0.15~30 | -61.57 | -33 | PASS |
| EGPRS850 | 251 | 30~1000 | -35.53 | -13 | PASS |
| EGPRS850 | 251 | 1000~9000 | -32.61 | -13 | PASS |
| GSM1900 | 512 | 0.009~0.15 | -55.34 | -43 | PASS |
| GSM1900 | 512 | 0.15~30 | -63.38 | -33 | PASS |
| GSM1900 | 512 | 30~1000 | -35.39 | -13 | PASS |



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| | | | | | |
|-----------|-----|-------------|--------|-----|------|
| GSM1900 | 512 | 1000~7000 | -30.54 | -13 | PASS |
| GSM1900 | 512 | 7000~13600 | -34.42 | -13 | PASS |
| GSM1900 | 512 | 13600~20000 | -32.42 | -13 | PASS |
| GSM1900 | 661 | 0.009~0.15 | -54.49 | -43 | PASS |
| GSM1900 | 661 | 0.15~30 | -61.74 | -33 | PASS |
| GSM1900 | 661 | 30~1000 | -35.22 | -13 | PASS |
| GSM1900 | 661 | 1000~7000 | -28.39 | -13 | PASS |
| GSM1900 | 661 | 7000~13600 | -34.85 | -13 | PASS |
| GSM1900 | 661 | 13600~20000 | -32.65 | -13 | PASS |
| GSM1900 | 810 | 0.009~0.15 | -54.70 | -43 | PASS |
| GSM1900 | 810 | 0.15~30 | -52.86 | -33 | PASS |
| GSM1900 | 810 | 30~1000 | -35.24 | -13 | PASS |
| GSM1900 | 810 | 1000~7000 | -29.60 | -13 | PASS |
| GSM1900 | 810 | 7000~13600 | -34.16 | -13 | PASS |
| GSM1900 | 810 | 13600~20000 | -32.78 | -13 | PASS |
| EGPRS1900 | 512 | 0.009~0.15 | -52.32 | -43 | PASS |
| EGPRS1900 | 512 | 0.15~30 | -56.45 | -33 | PASS |
| EGPRS1900 | 512 | 30~1000 | -35.09 | -13 | PASS |
| EGPRS1900 | 512 | 1000~7000 | -30.10 | -13 | PASS |
| EGPRS1900 | 512 | 7000~13600 | -34.79 | -13 | PASS |
| EGPRS1900 | 512 | 13600~20000 | -32.42 | -13 | PASS |
| EGPRS1900 | 661 | 0.009~0.15 | -53.78 | -43 | PASS |
| EGPRS1900 | 661 | 0.15~30 | -56.48 | -33 | PASS |
| EGPRS1900 | 661 | 30~1000 | -35.40 | -13 | PASS |
| EGPRS1900 | 661 | 1000~7000 | -29.96 | -13 | PASS |
| EGPRS1900 | 661 | 7000~13600 | -34.53 | -13 | PASS |
| EGPRS1900 | 661 | 13600~20000 | -32.43 | -13 | PASS |
| EGPRS1900 | 810 | 0.009~0.15 | -53.34 | -43 | PASS |
| EGPRS1900 | 810 | 0.15~30 | -58.05 | -33 | PASS |
| EGPRS1900 | 810 | 30~1000 | -35.49 | -13 | PASS |
| EGPRS1900 | 810 | 1000~7000 | -29.84 | -13 | PASS |
| EGPRS1900 | 810 | 7000~13600 | -34.18 | -13 | PASS |
| EGPRS1900 | 810 | 13600~20000 | -32.48 | -13 | PASS |

6.2. Test Plots

GSM850_128

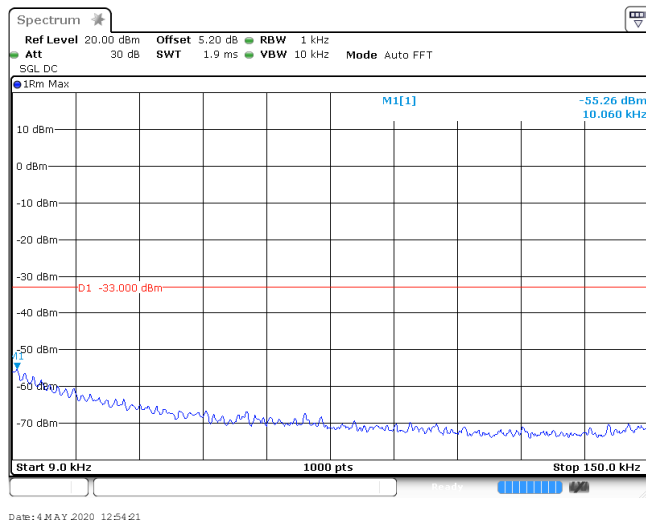


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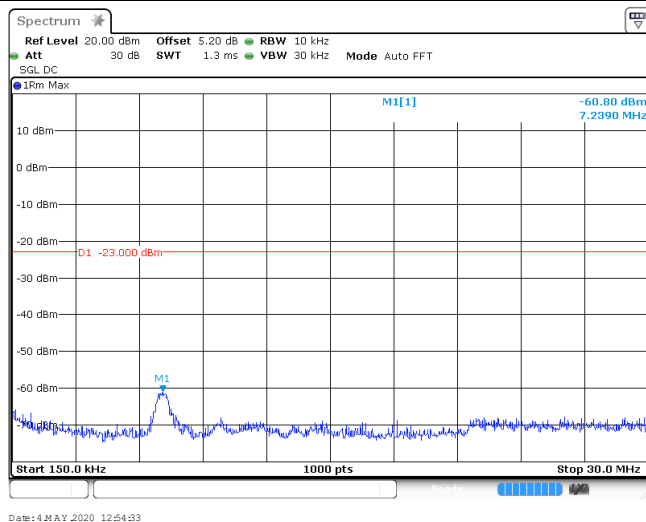
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GSM850_128

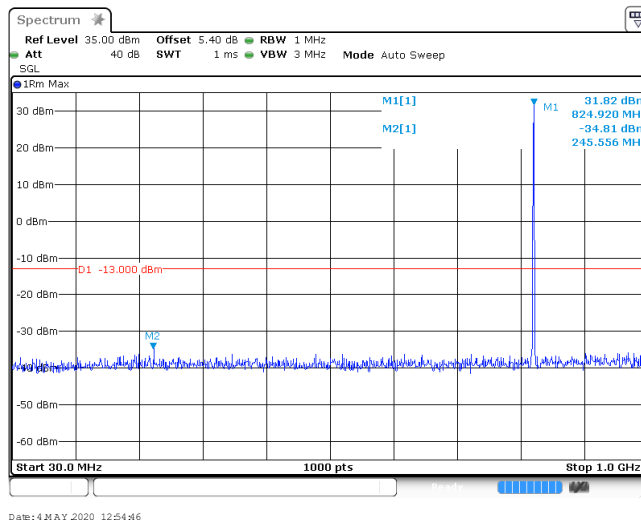


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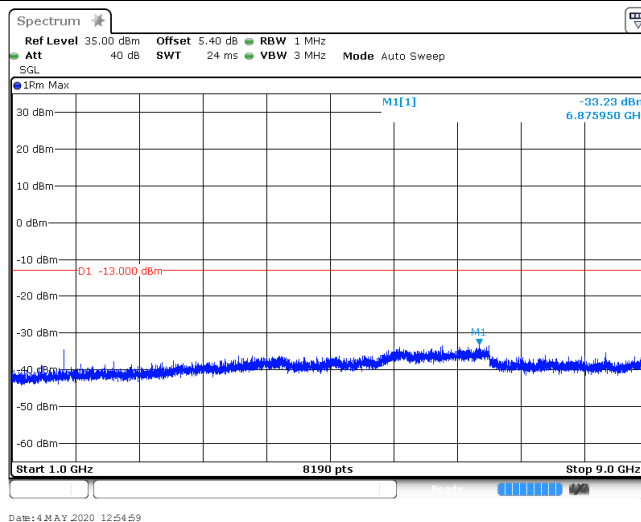


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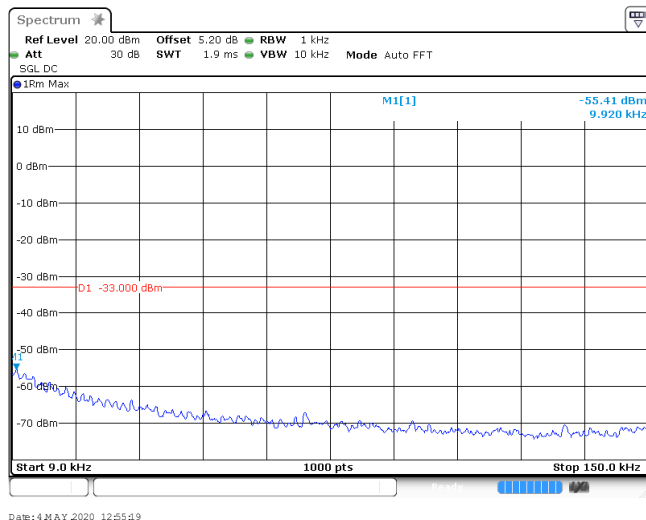


GSM850_190

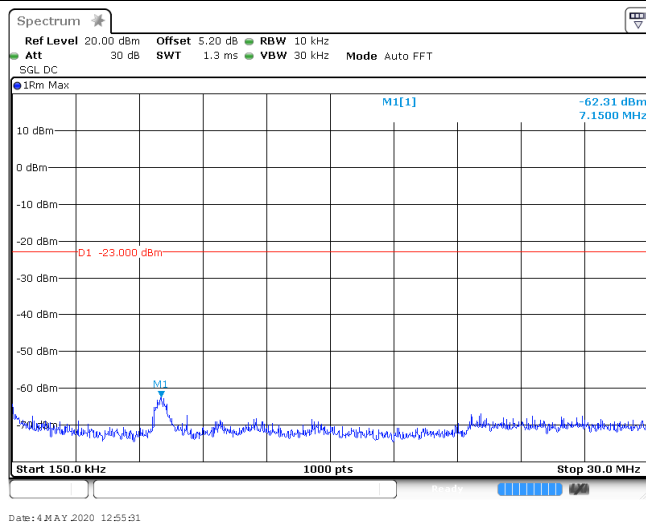


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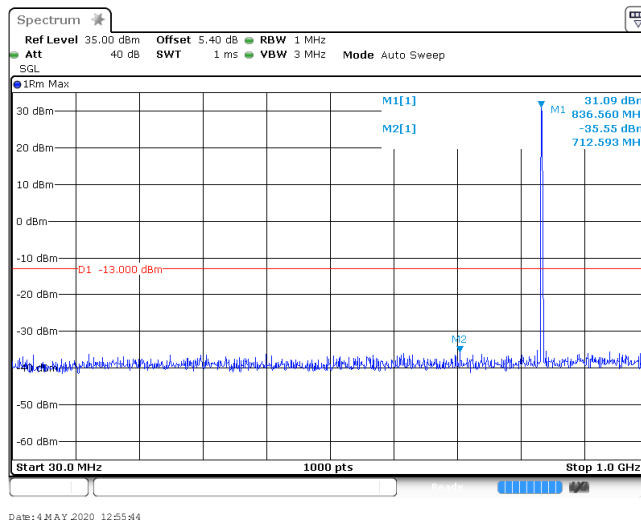


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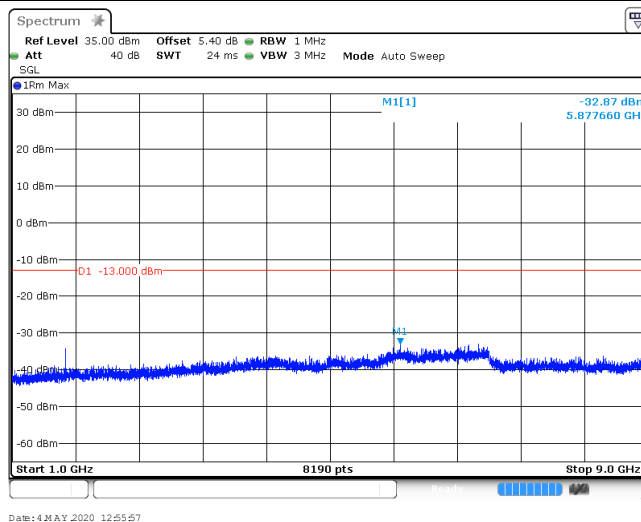


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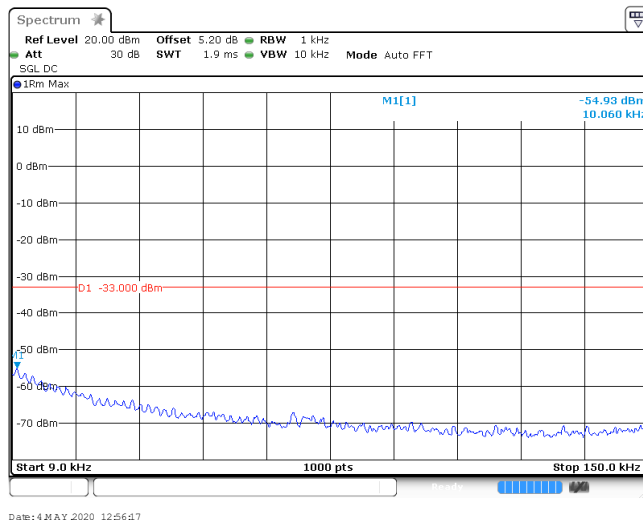
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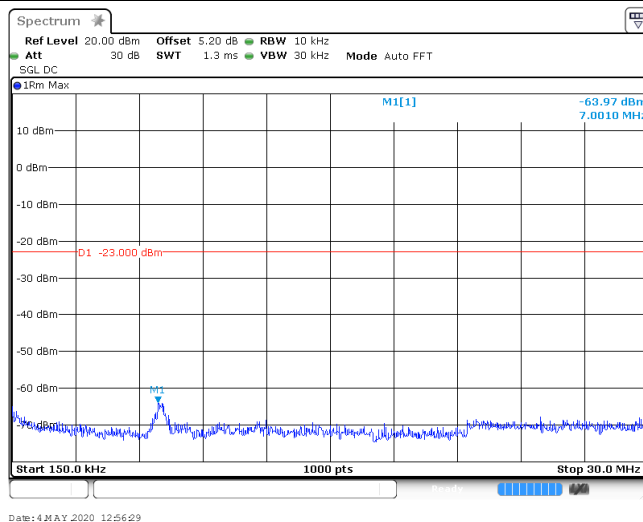
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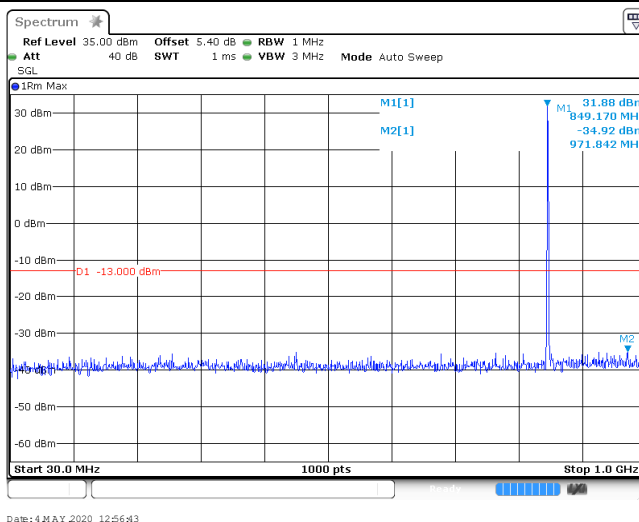
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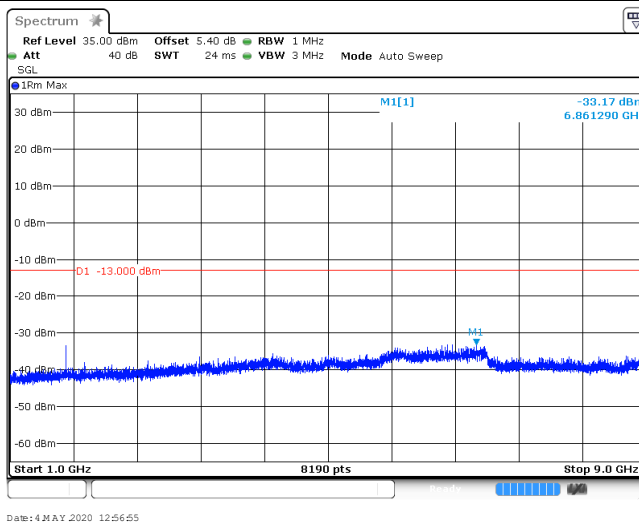
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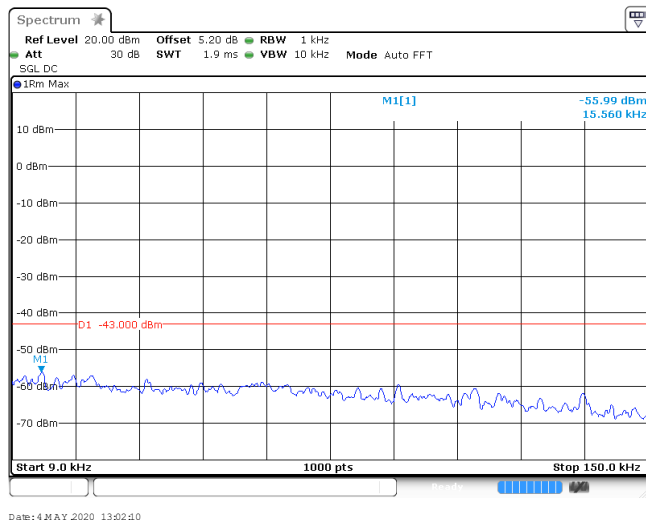


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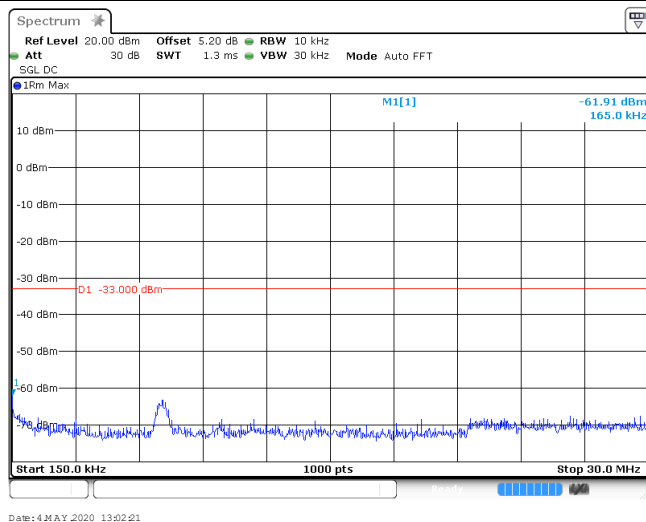


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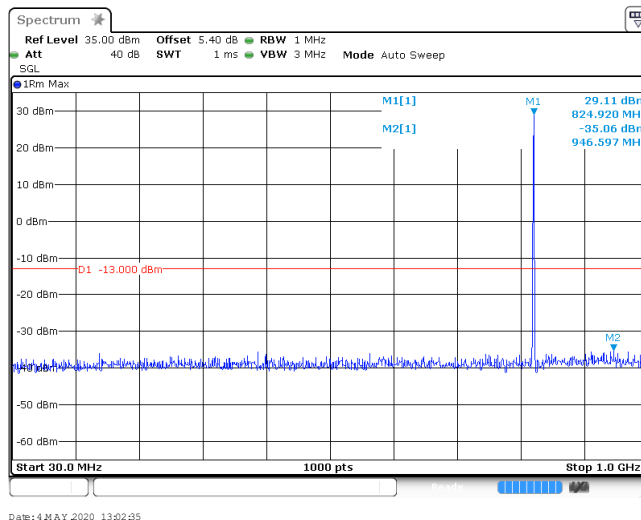
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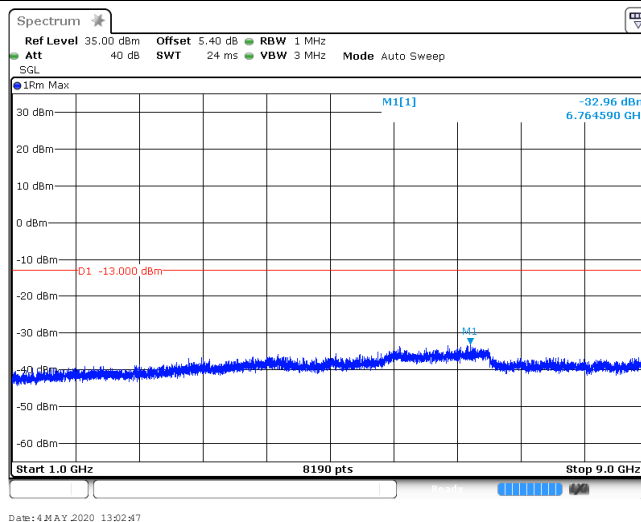
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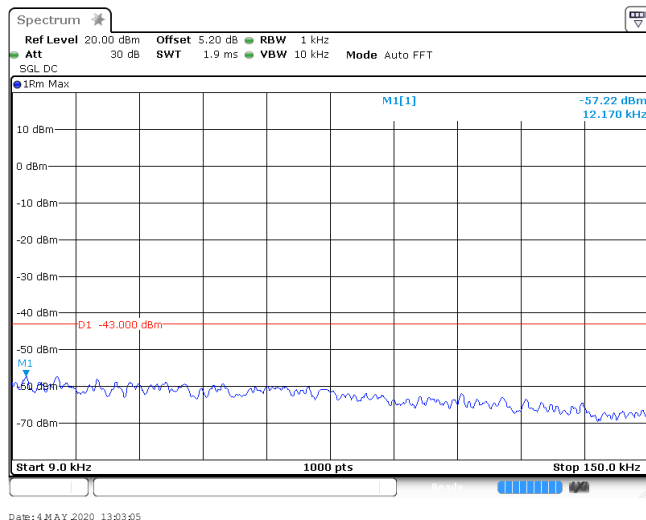


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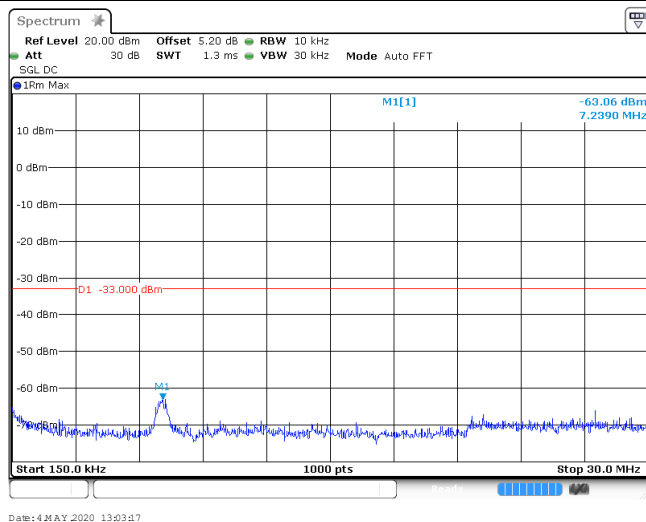


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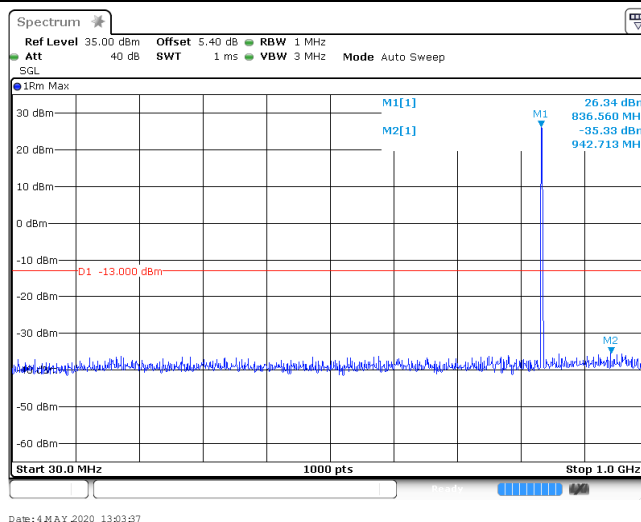
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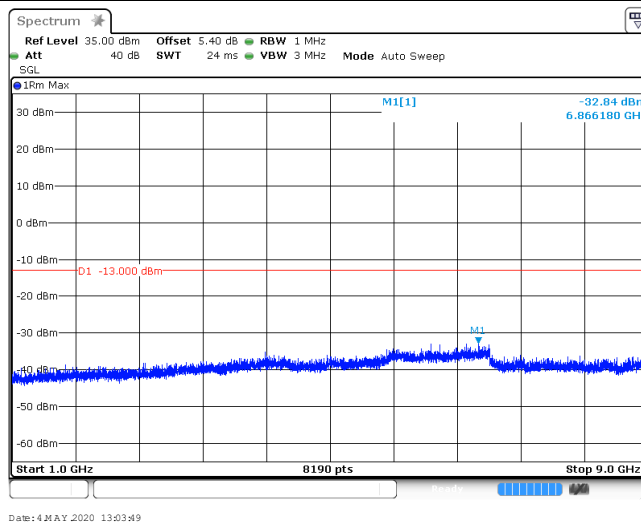
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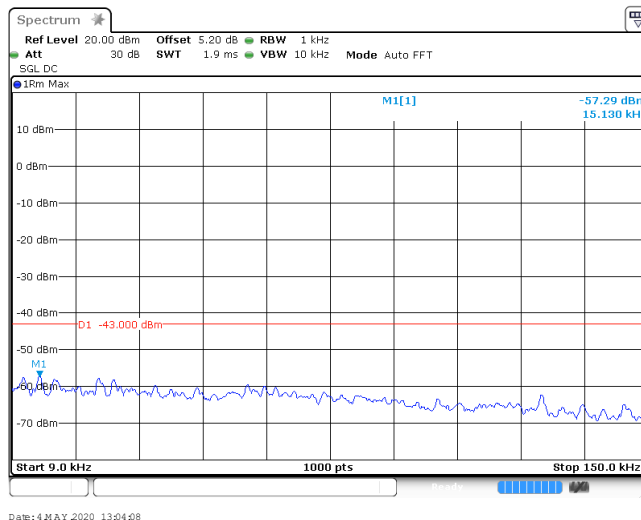


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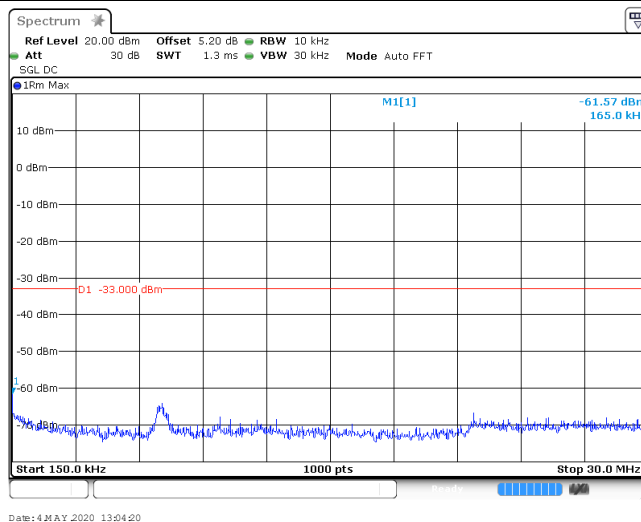


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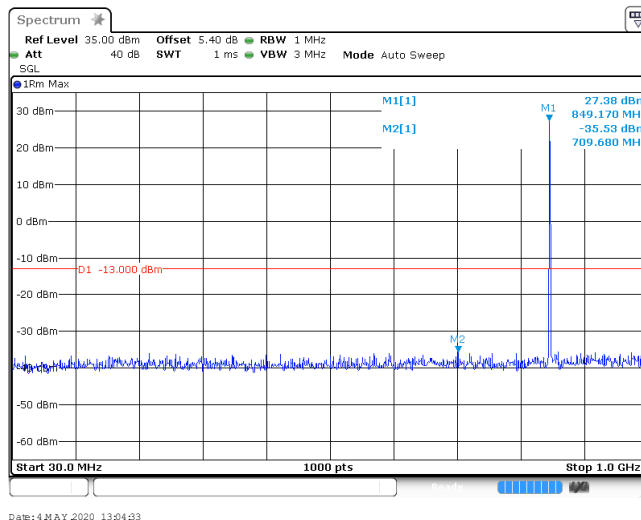


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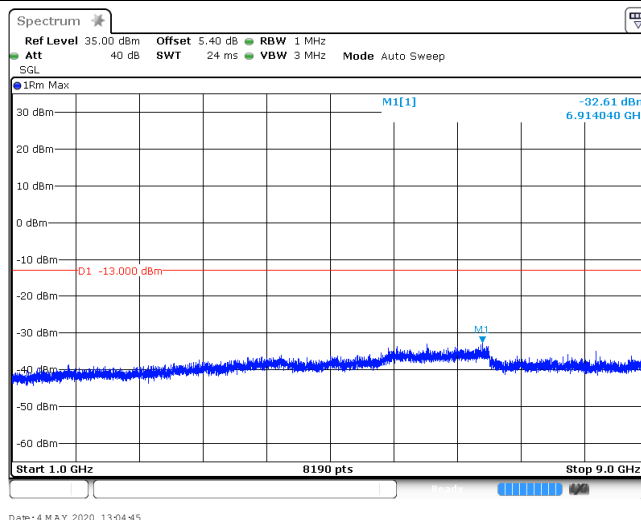


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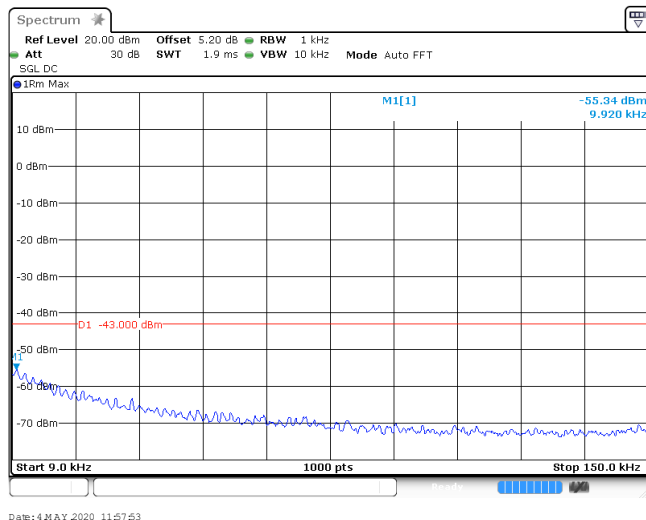


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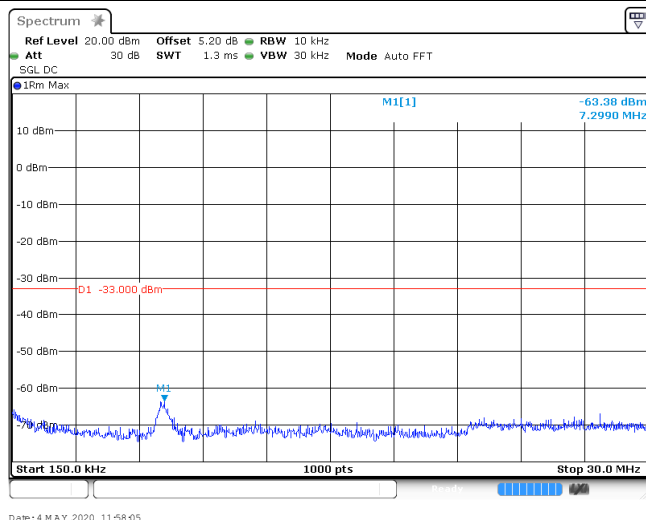
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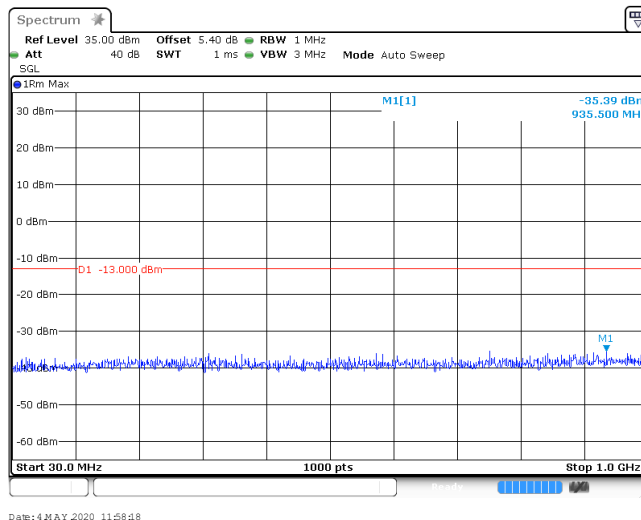
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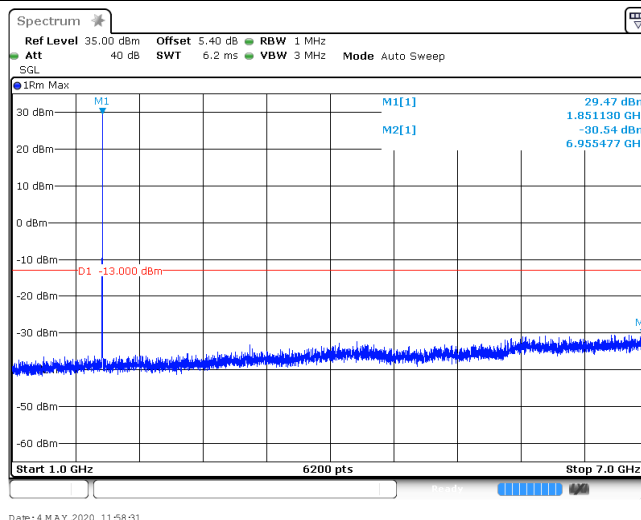
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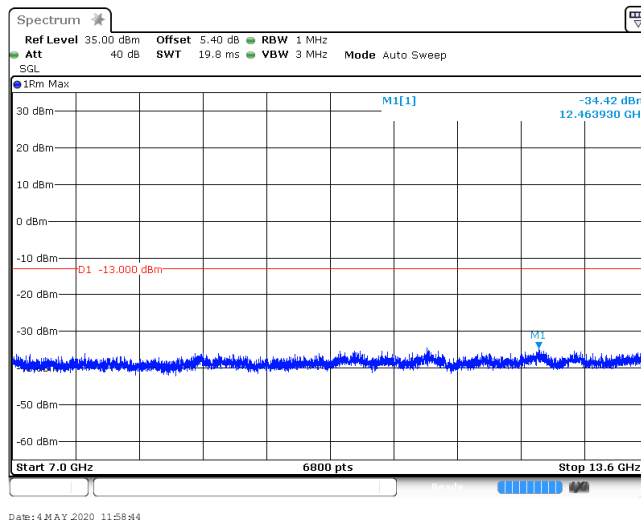


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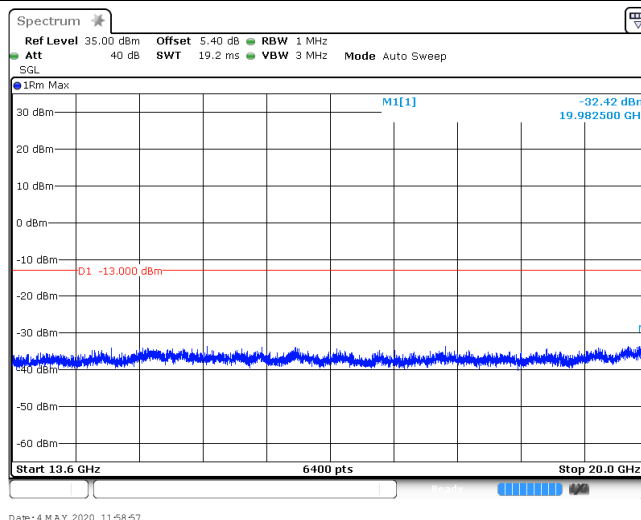
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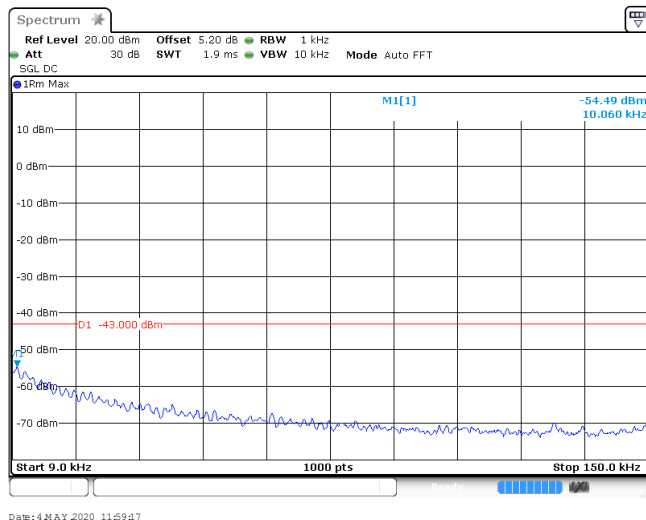


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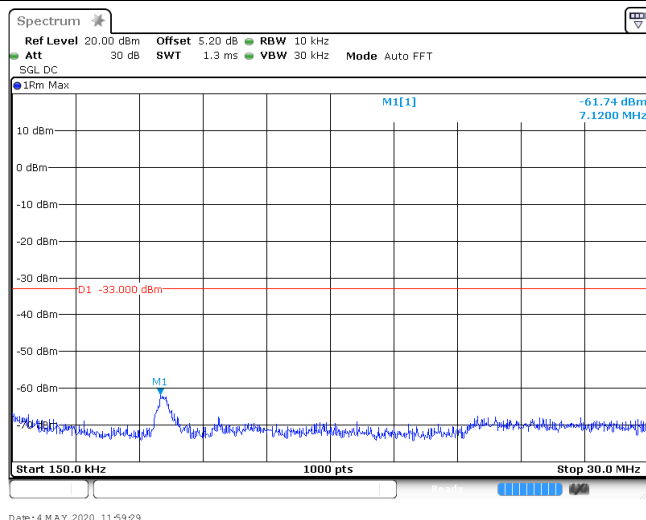
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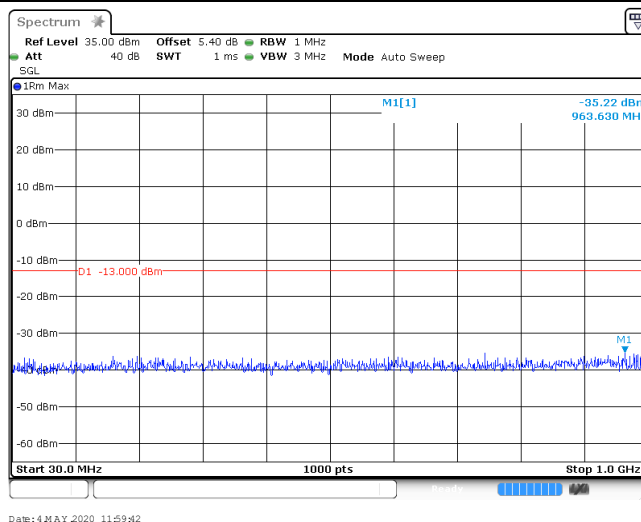
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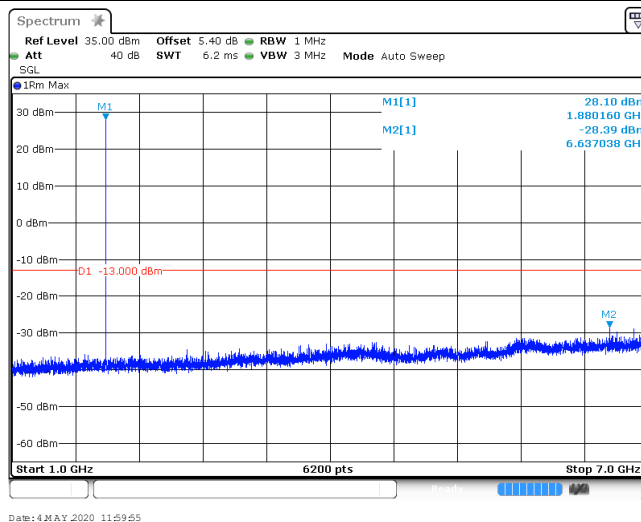
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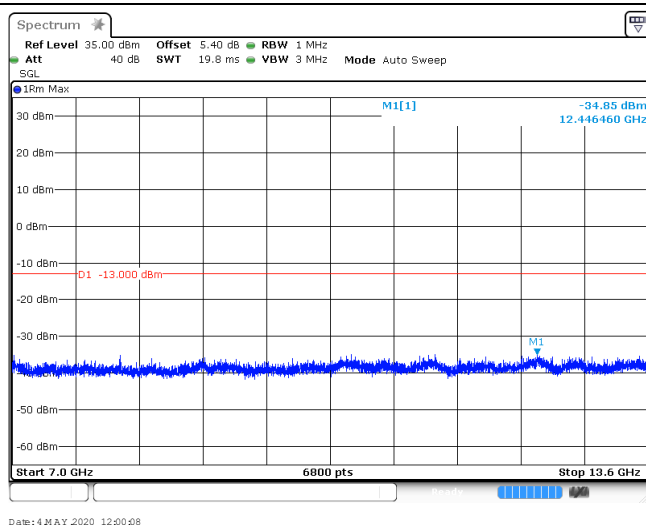


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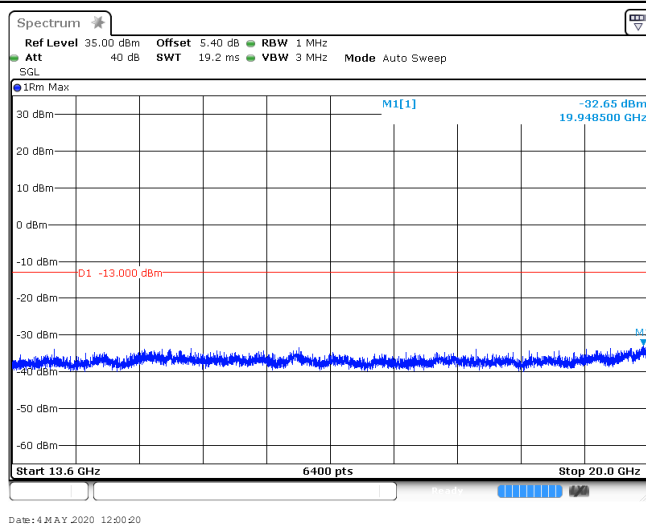
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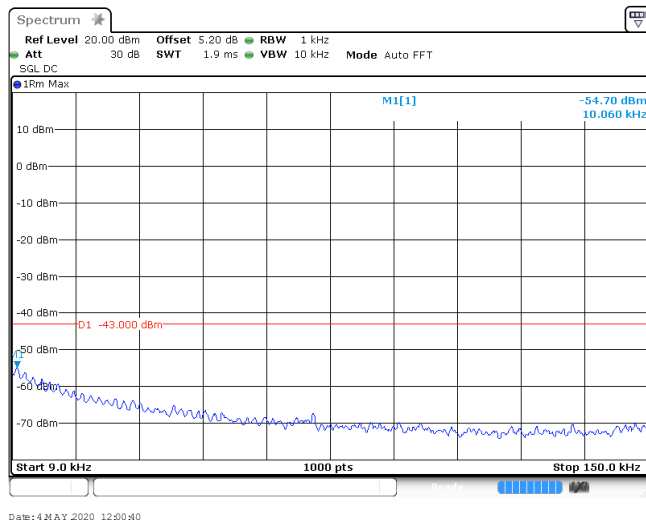


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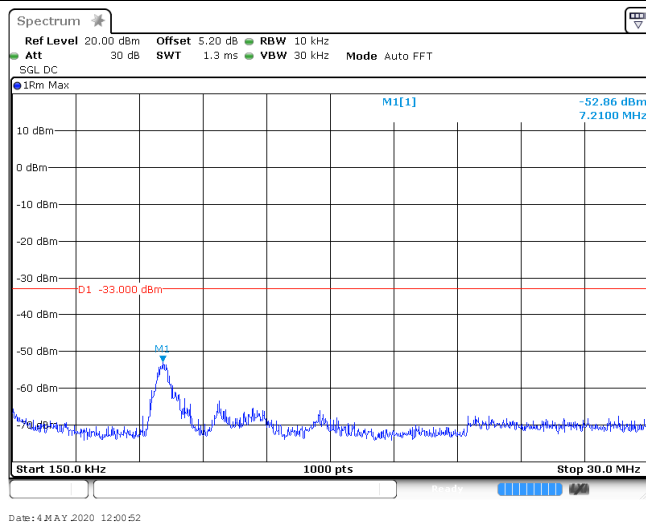


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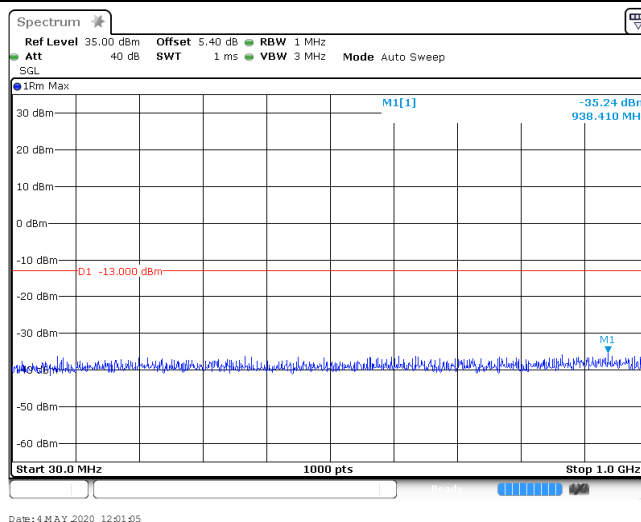


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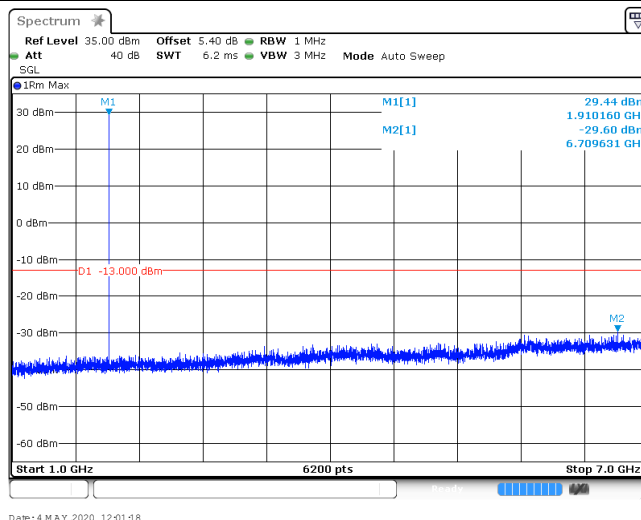


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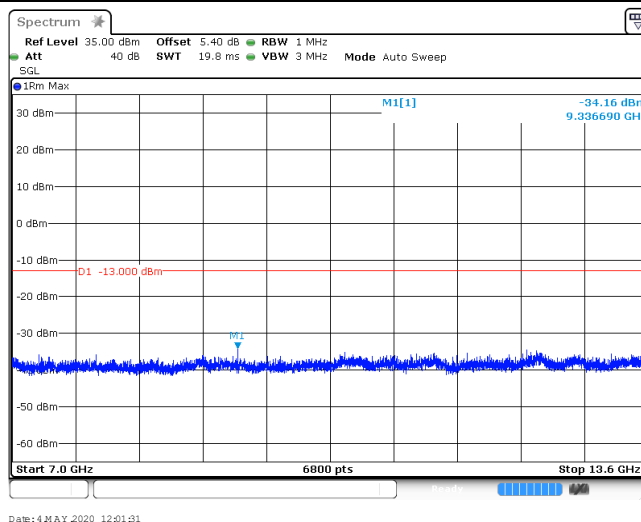


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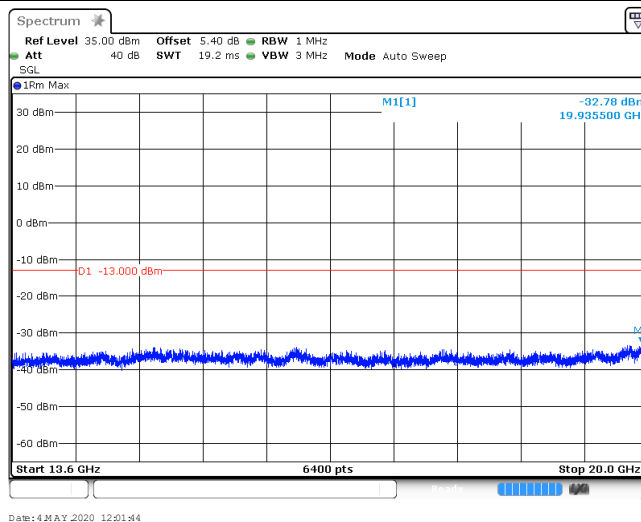
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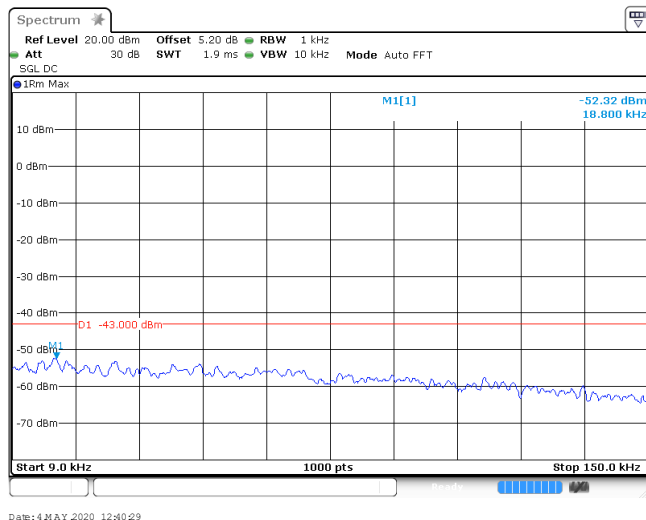


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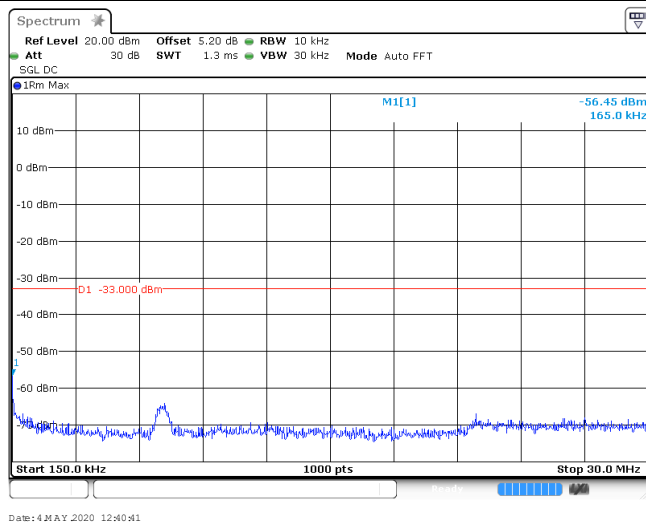


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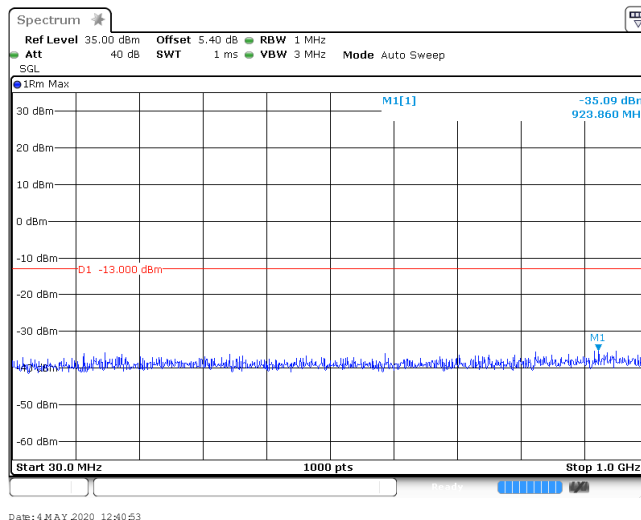


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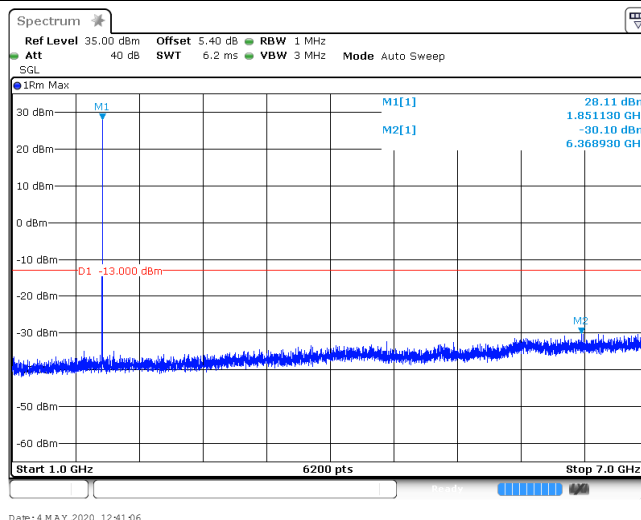
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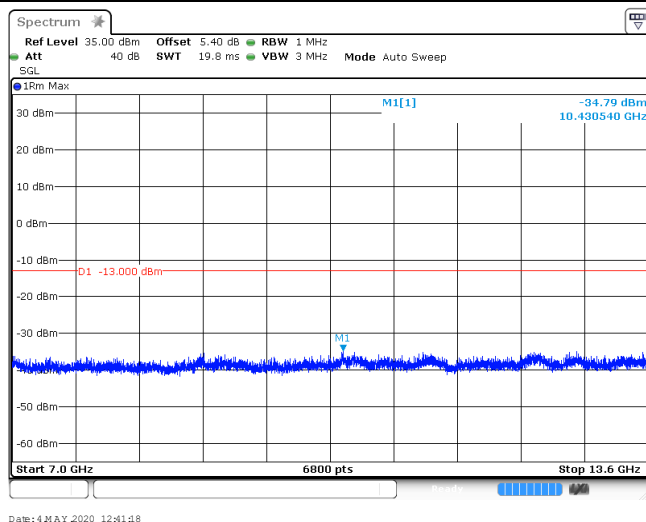
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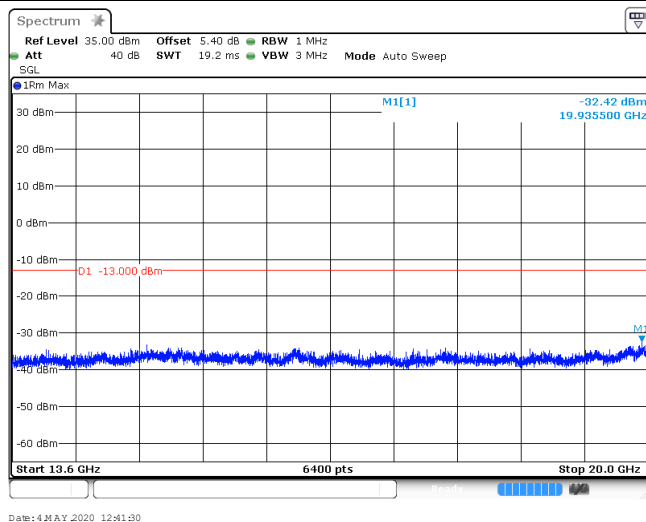
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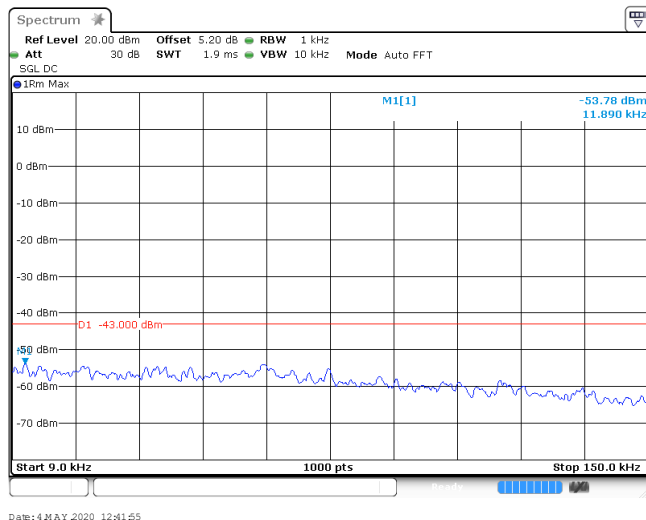


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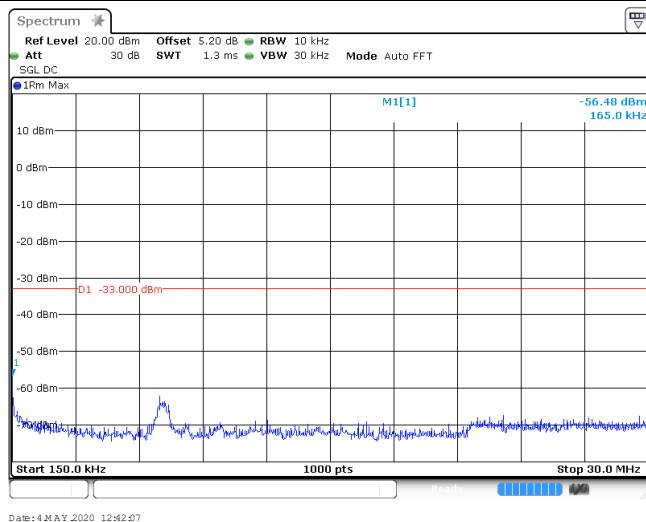


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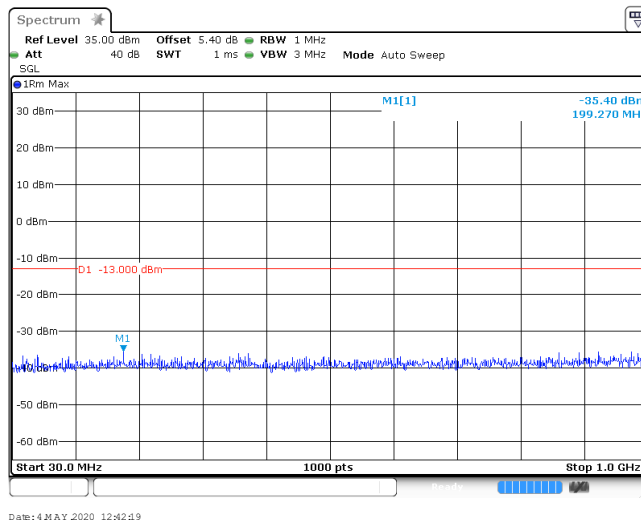
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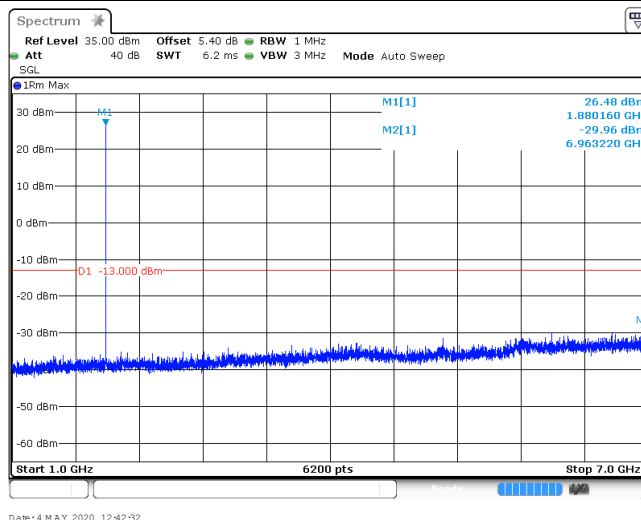
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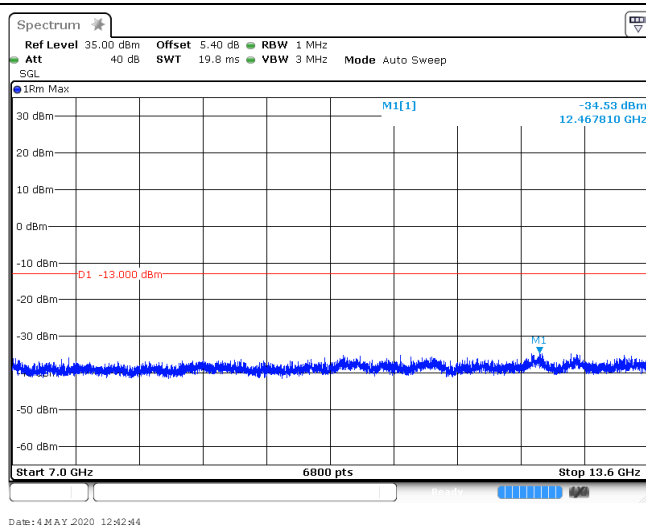


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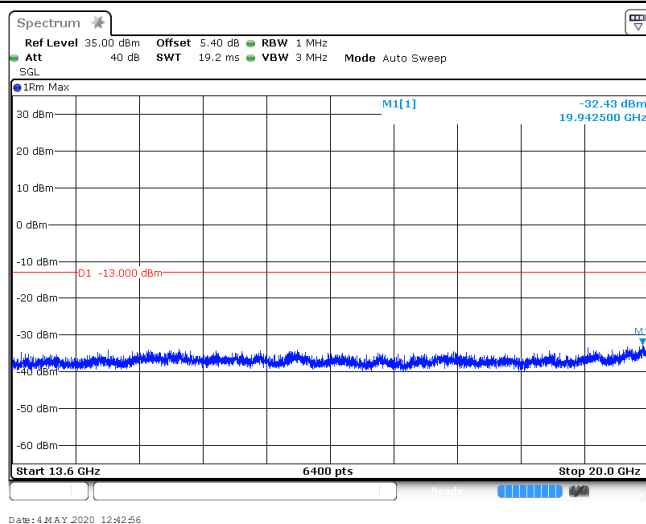


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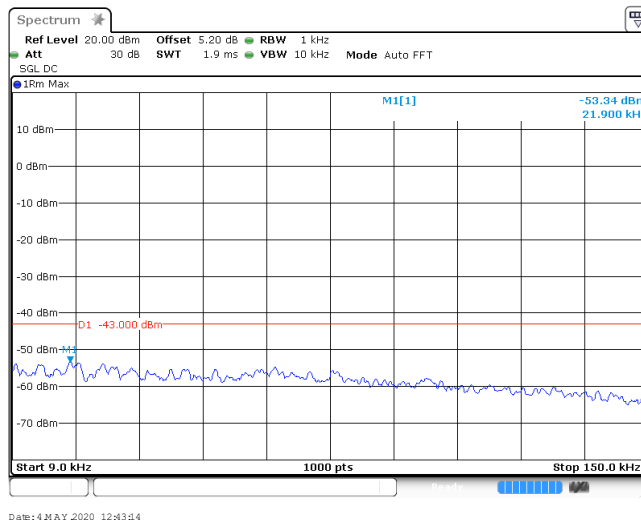


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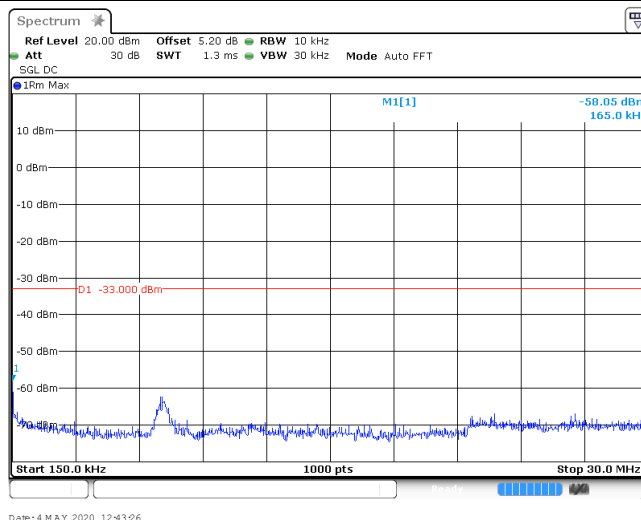


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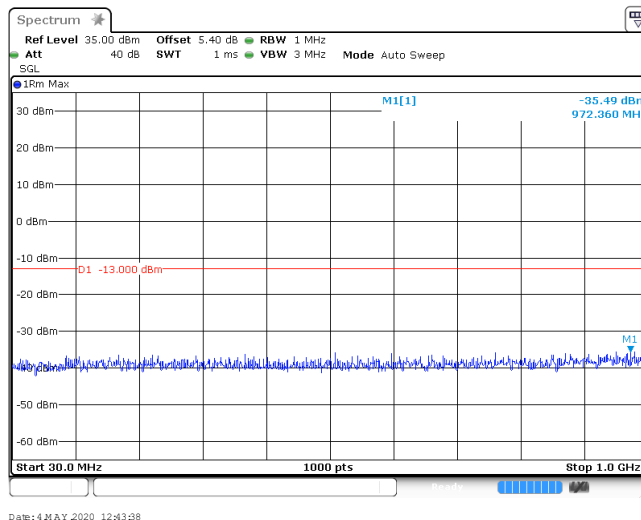


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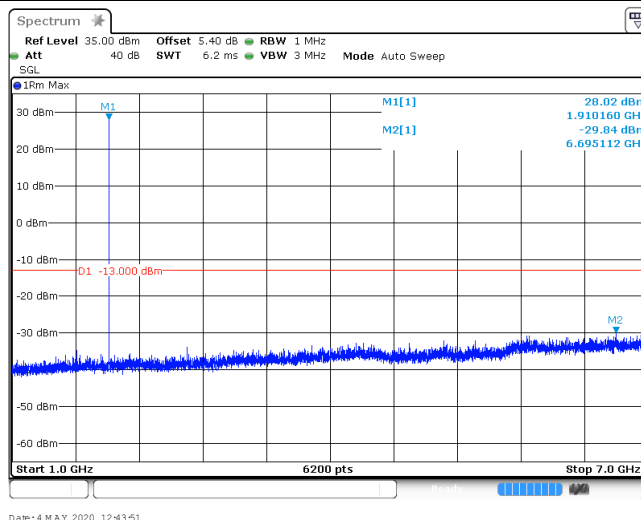
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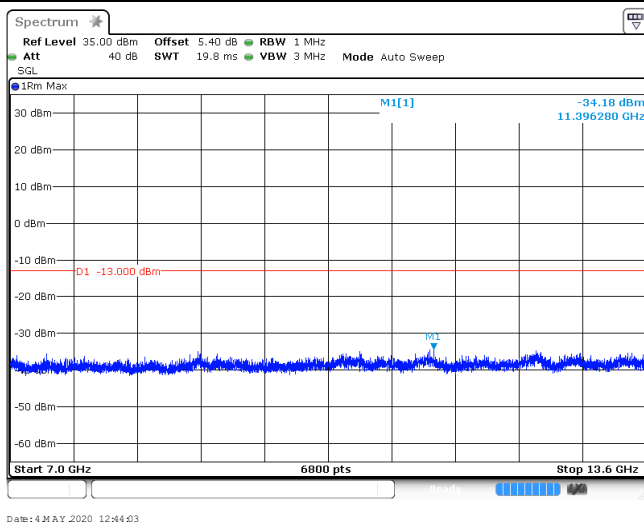
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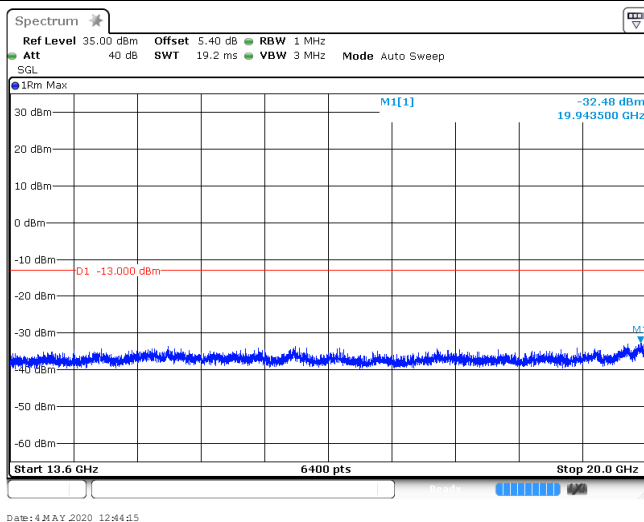
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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 56.044500 | -73.70 | -13.00 | 60.70 | 193 | 196 | Vertical |
| 323.813000 | -78.62 | -13.00 | 65.62 | 136 | 33 | Vertical |
| 950.384500 | -72.00 | -13.00 | 59.00 | 187 | 283 | Vertical |
| 3700.350000 | -53.55 | -13.00 | 40.55 | 168 | 226 | Vertical |
| 5550.450000 | -52.00 | -13.00 | 39.00 | 128 | 128 | Vertical |
| 9295.100000 | -51.72 | -13.00 | 38.72 | 137 | 161 | Vertical |
| 57.257000 | -66.88 | -13.00 | 53.88 | 243 | 335 | Horizontal |
| 225.018500 | -75.76 | -13.00 | 62.76 | 141 | 321 | Horizontal |
| 965.031500 | -71.22 | -13.00 | 58.22 | 171 | 7 | Horizontal |
| 3700.000000 | -52.80 | -13.00 | 39.80 | 198 | 133 | Horizontal |
| 5550.450000 | -45.29 | -13.00 | 32.29 | 207 | 49 | Horizontal |
| 10608.712500 | -50.08 | -13.00 | 37.08 | 154 | 313 | Horizontal |

7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 56.626500 | -67.84 | -13.00 | 54.84 | 128 | 8 | Vertical |
| 556.564500 | -75.36 | -13.00 | 62.36 | 284 | 83 | Vertical |
| 964.934500 | -70.48 | -13.00 | 57.48 | 185 | 254 | Vertical |
| 3759.850000 | -50.22 | -13.00 | 37.22 | 154 | 147 | Vertical |
| 5640.050000 | -39.01 | -13.00 | 26.01 | 273 | 52 | Vertical |
| 9464.500000 | -51.46 | -13.00 | 38.46 | 241 | 40 | Vertical |
| 56.529500 | -66.16 | -13.00 | 53.16 | 137 | 130 | Horizontal |
| 227.443500 | -75.53 | -13.00 | 62.53 | 222 | 154 | Horizontal |
| 942.576000 | -71.14 | -13.00 | 58.14 | 225 | 255 | Horizontal |
| 3759.500000 | -56.11 | -13.00 | 43.11 | 231 | 102 | Horizontal |
| 5639.700000 | -48.09 | -13.00 | 35.09 | 107 | 275 | Horizontal |
| 9256.950000 | -51.78 | -13.00 | 38.78 | 165 | 297 | Horizontal |

7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|



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| | | | | | | |
|--------------|--------|--------|-------|-----|-----|------------|
| 55.559500 | -71.65 | -13.00 | 58.65 | 252 | 95 | Vertical |
| 309.311500 | -78.51 | -13.00 | 65.51 | 187 | 220 | Vertical |
| 942.576000 | -71.29 | -13.00 | 58.29 | 131 | 248 | Vertical |
| 3819.350000 | -50.48 | -13.00 | 37.48 | 135 | 226 | Vertical |
| 5729.300000 | -52.89 | -13.00 | 39.89 | 162 | 149 | Vertical |
| 8666.150000 | -52.14 | -13.00 | 39.14 | 232 | 202 | Vertical |
| 57.160000 | -69.20 | -13.00 | 56.20 | 159 | 83 | Horizontal |
| 226.619000 | -76.11 | -13.00 | 63.11 | 110 | 86 | Horizontal |
| 930.451000 | -71.19 | -13.00 | 58.19 | 214 | 57 | Horizontal |
| 3819.350000 | -53.06 | -13.00 | 40.06 | 177 | 300 | Horizontal |
| 5729.650000 | -48.58 | -13.00 | 35.58 | 111 | 140 | Horizontal |
| 10529.787500 | -51.19 | -13.00 | 38.19 | 149 | 270 | Horizontal |

7.2. Test Band = GSM 850

7.2.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 56.190000 | -72.37 | -13.00 | 59.37 | 207 | 289 | Vertical |
| 339.866500 | -78.51 | -13.00 | 65.51 | 255 | 85 | Vertical |
| 619.275000 | -75.96 | -13.00 | 62.96 | 206 | 193 | Vertical |
| 1648.500000 | -48.45 | -13.00 | 35.45 | 257 | 169 | Vertical |
| 2457.825000 | -29.62 | -13.00 | 16.62 | 208 | 338 | Vertical |
| 3299.600000 | -57.18 | -13.00 | 44.18 | 231 | 261 | Vertical |
| 57.548000 | -67.62 | -13.00 | 54.62 | 116 | 131 | Horizontal |
| 224.727500 | -77.55 | -13.00 | 64.55 | 159 | 285 | Horizontal |
| 624.755500 | -75.82 | -13.00 | 62.82 | 191 | 209 | Horizontal |
| 1648.725000 | -50.87 | -13.00 | 37.87 | 145 | 144 | Horizontal |
| 2472.525000 | -43.15 | -13.00 | 30.15 | 152 | 294 | Horizontal |
| 4120.700000 | -54.18 | -13.00 | 41.18 | 192 | 130 | Horizontal |

7.2.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 55.899000 | -70.35 | -13.00 | 57.35 | 278 | 181 | Vertical |
| 332.009500 | -78.56 | -13.00 | 65.56 | 194 | 115 | Vertical |
| 1673.175000 | -50.87 | -13.00 | 37.87 | 183 | 58 | Vertical |
| 2509.875000 | -40.31 | -13.00 | 27.31 | 276 | 251 | Vertical |
| 3424.900000 | -57.55 | -13.00 | 44.55 | 232 | 145 | Vertical |
| 6599.750000 | -53.76 | -13.00 | 40.76 | 106 | 55 | Vertical |
| 56.966000 | -65.35 | -13.00 | 52.35 | 164 | 157 | Horizontal |



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| | | | | | | |
|-------------|--------|--------|-------|-----|-----|------------|
| 229.141000 | -75.39 | -13.00 | 62.39 | 152 | 78 | Horizontal |
| 624.319000 | -75.54 | -13.00 | 62.54 | 135 | 123 | Horizontal |
| 1673.025000 | -51.15 | -13.00 | 38.15 | 291 | 343 | Horizontal |
| 2509.425000 | -44.32 | -13.00 | 31.32 | 131 | 308 | Horizontal |
| 3368.900000 | -57.11 | -13.00 | 44.11 | 166 | 318 | Horizontal |

7.2.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 56.335500 | -72.21 | -13.00 | 59.21 | 145 | 312 | Vertical |
| 338.896500 | -78.30 | -13.00 | 65.30 | 297 | 228 | Vertical |
| 599.778000 | -76.26 | -13.00 | 63.26 | 157 | 40 | Vertical |
| 1697.550000 | -49.62 | -13.00 | 36.62 | 104 | 50 | Vertical |
| 2546.325000 | -41.29 | -13.00 | 28.29 | 236 | 68 | Vertical |
| 4243.900000 | -53.33 | -13.00 | 40.33 | 210 | 323 | Vertical |
| 57.548000 | -67.51 | -13.00 | 54.51 | 164 | 82 | Horizontal |
| 222.108500 | -77.40 | -13.00 | 64.40 | 113 | 5 | Horizontal |
| 624.076500 | -75.15 | -13.00 | 62.15 | 112 | 174 | Horizontal |
| 1697.625000 | -51.94 | -13.00 | 38.94 | 187 | 42 | Horizontal |
| 2546.625000 | -46.79 | -13.00 | 33.79 | 100 | 78 | Horizontal |
| 4244.250000 | -53.22 | -13.00 | 40.22 | 115 | 278 | 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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8.1.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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