



# 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    |
| 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    |



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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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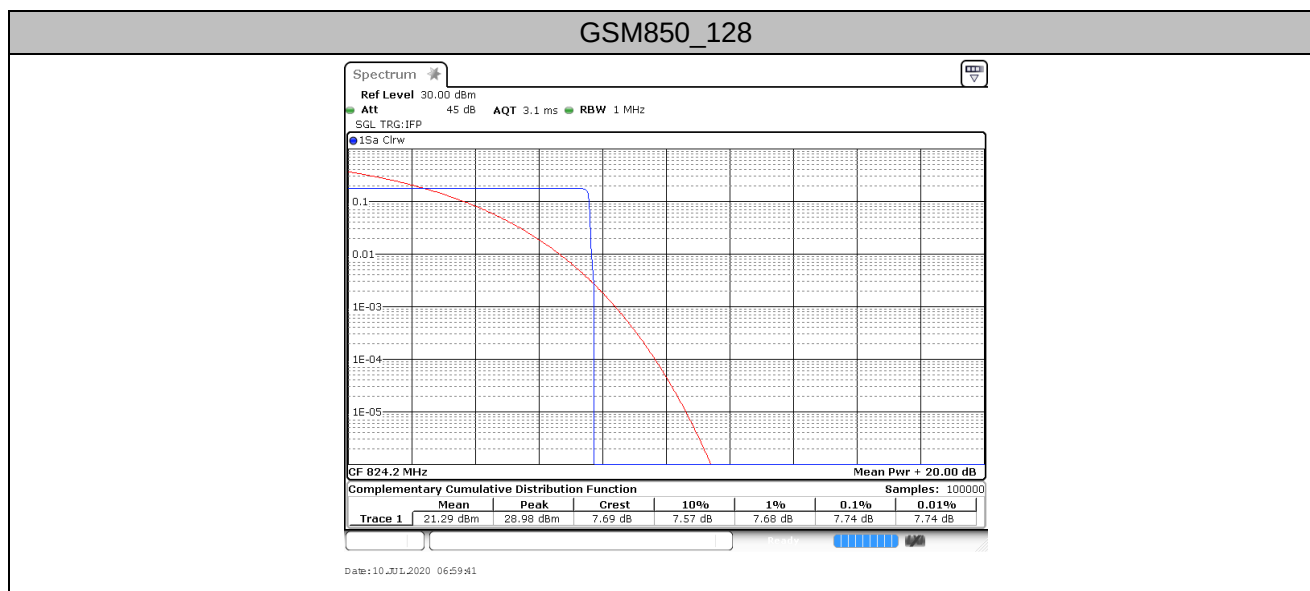


## 2. Peak-to-Average Ratio

### 2.1. Test Result

| Band      | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-----------|---------|---------------------------|-----------|---------|
| GSM850    | 128     | 7.74                      | 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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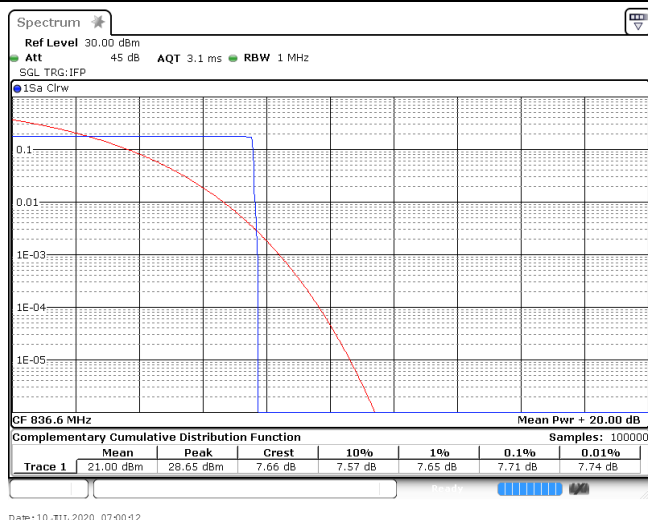
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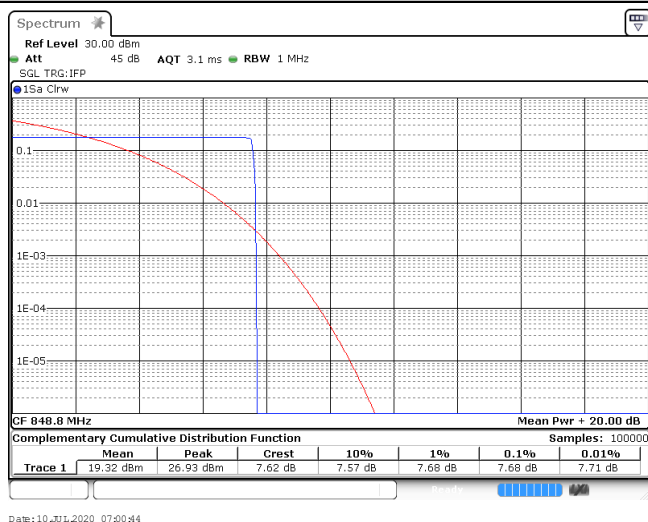
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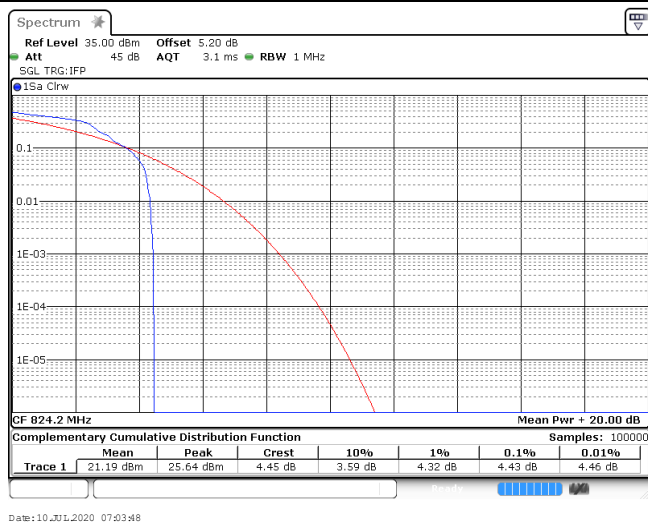
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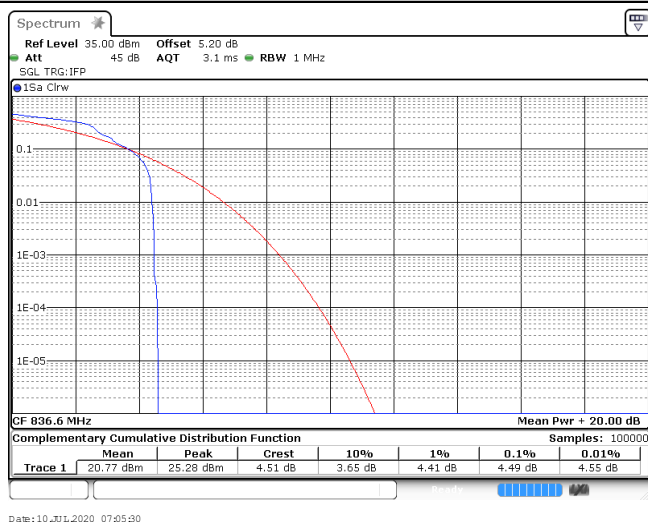
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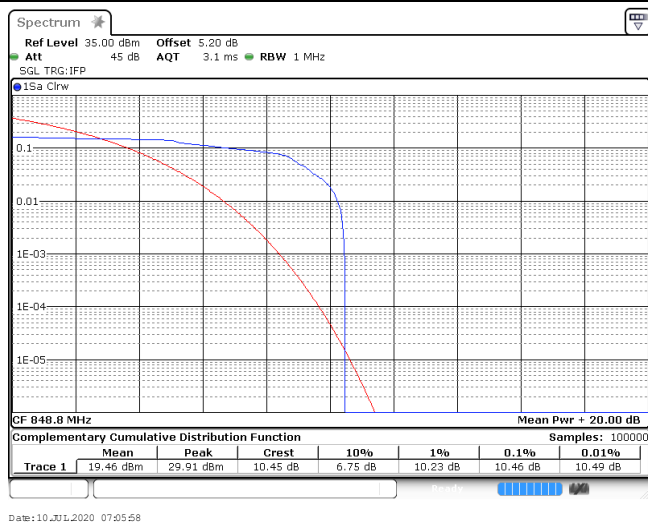
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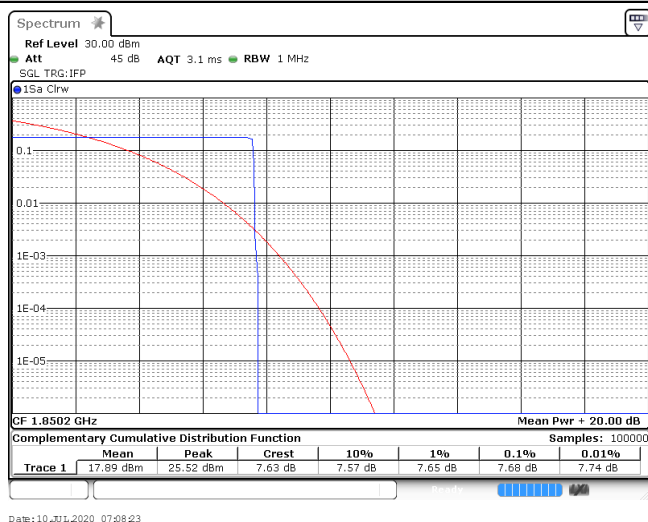
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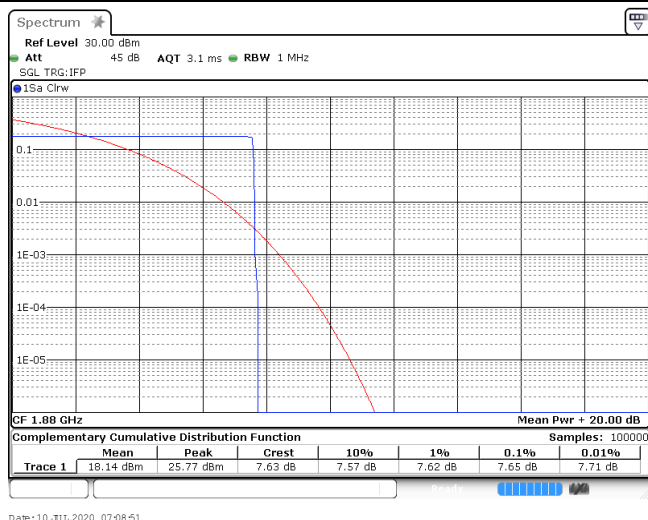
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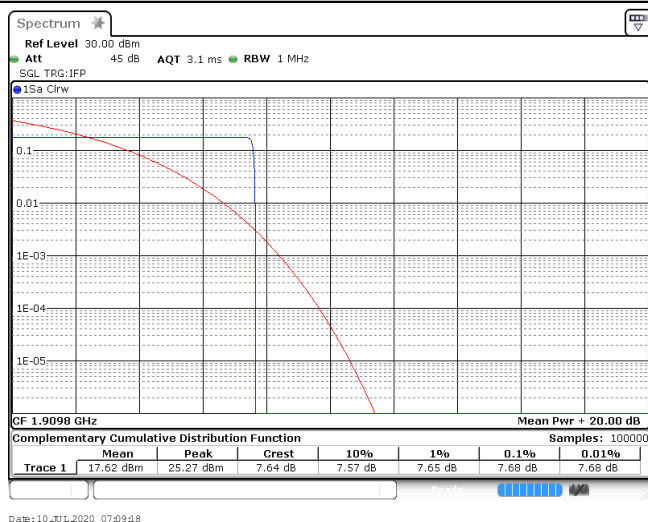
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### GSM1900\_661



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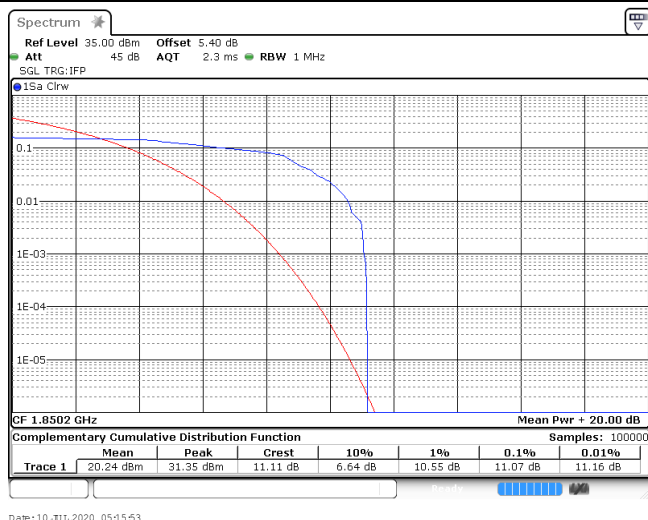
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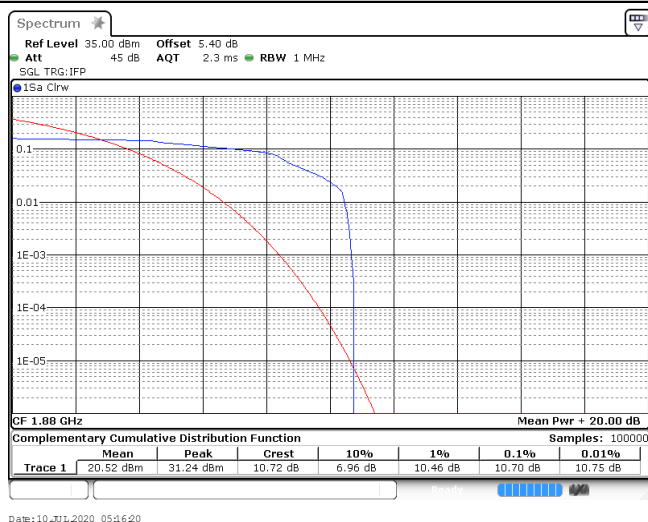
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EGPRS1900\_661



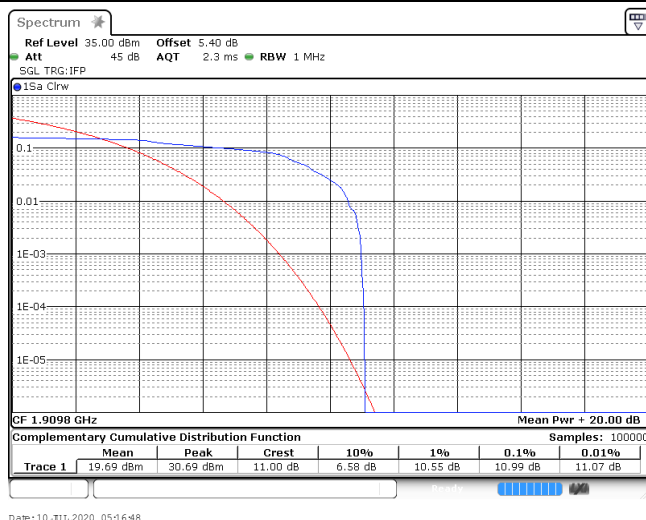
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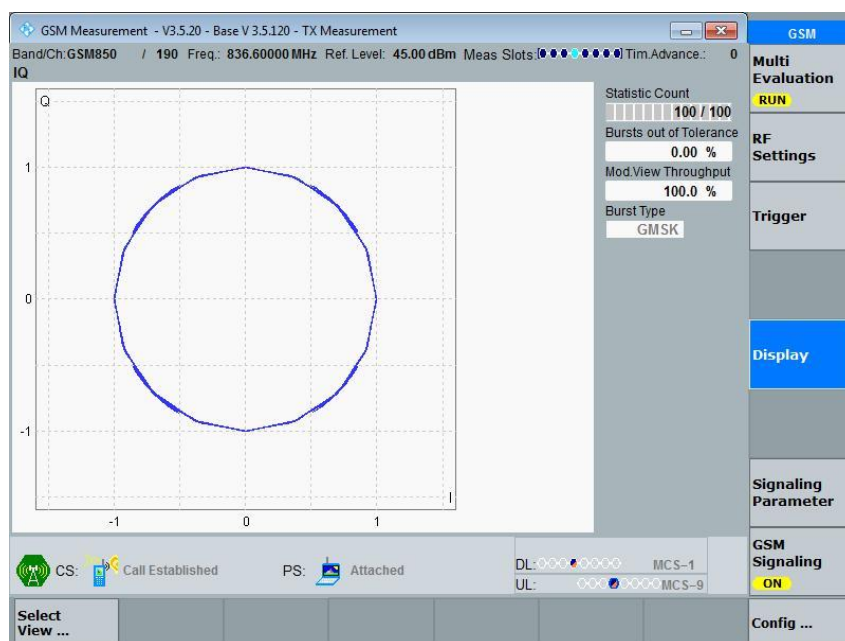
### 3. Modulation Characteristics

#### 3.1. For GSM

##### 3.1.1. Test Band = GSM 850

##### 3.1.1.1. Test Mode = GSM/TM1

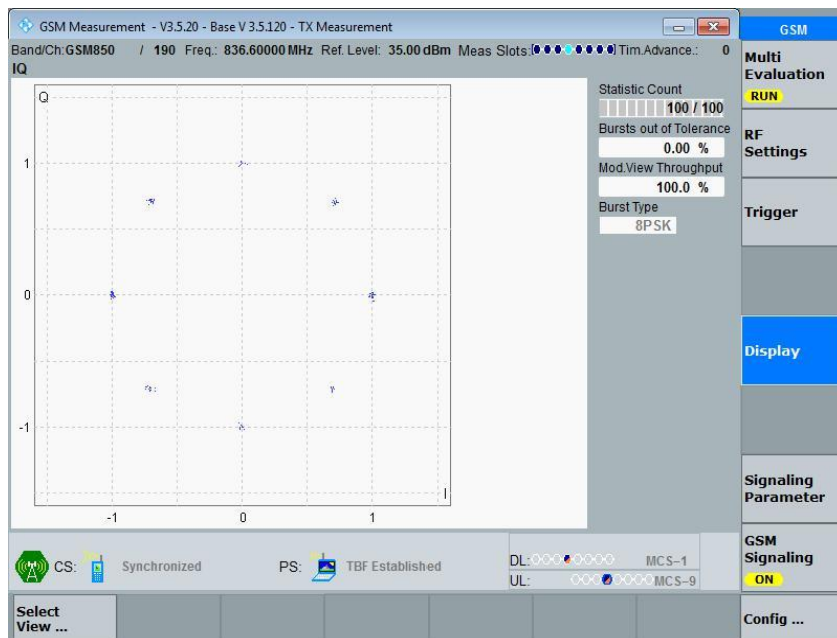
##### 3.1.1.1.1. Test Channel = MCH





### 3.1.1.2. Test Mode = GSM/TM2

#### 3.1.1.2.1. Test Channel = MCH



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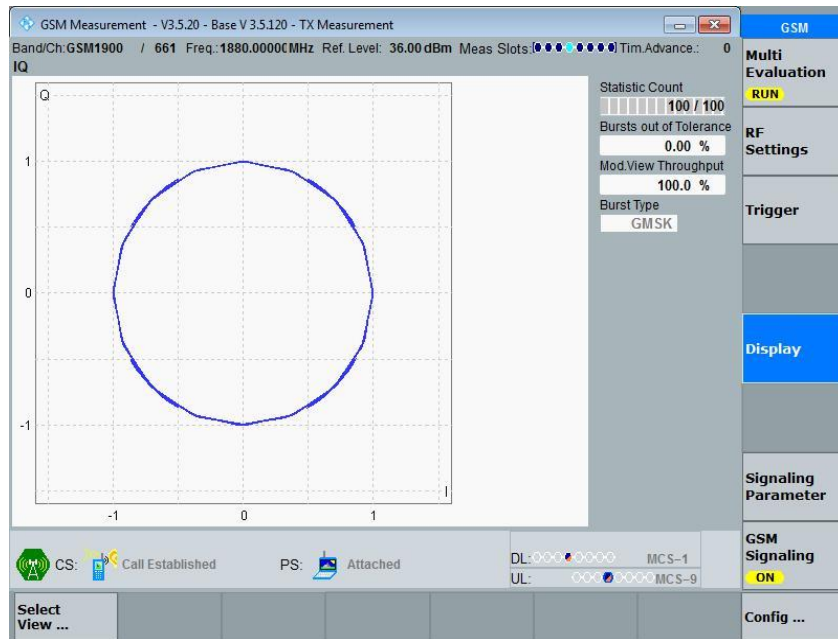
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### 3.1.2. Test Band = GSM 1900

#### 3.1.2.1. Test Mode = GSM/TM1

##### 3.1.2.1.1. Test Channel = MCH



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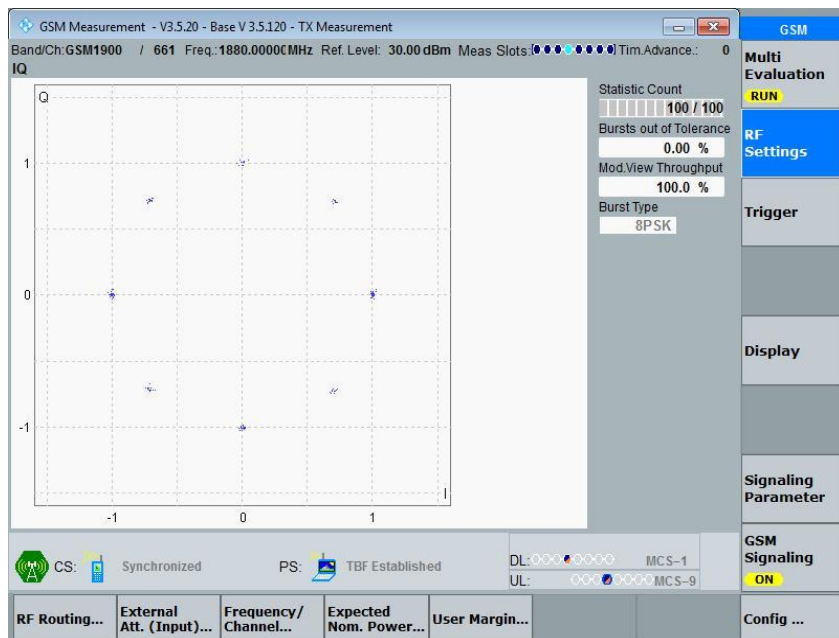
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### 3.1.2.2. Test Mode = GSM/TM2

#### 3.1.2.2.1. Test Channel = MCH



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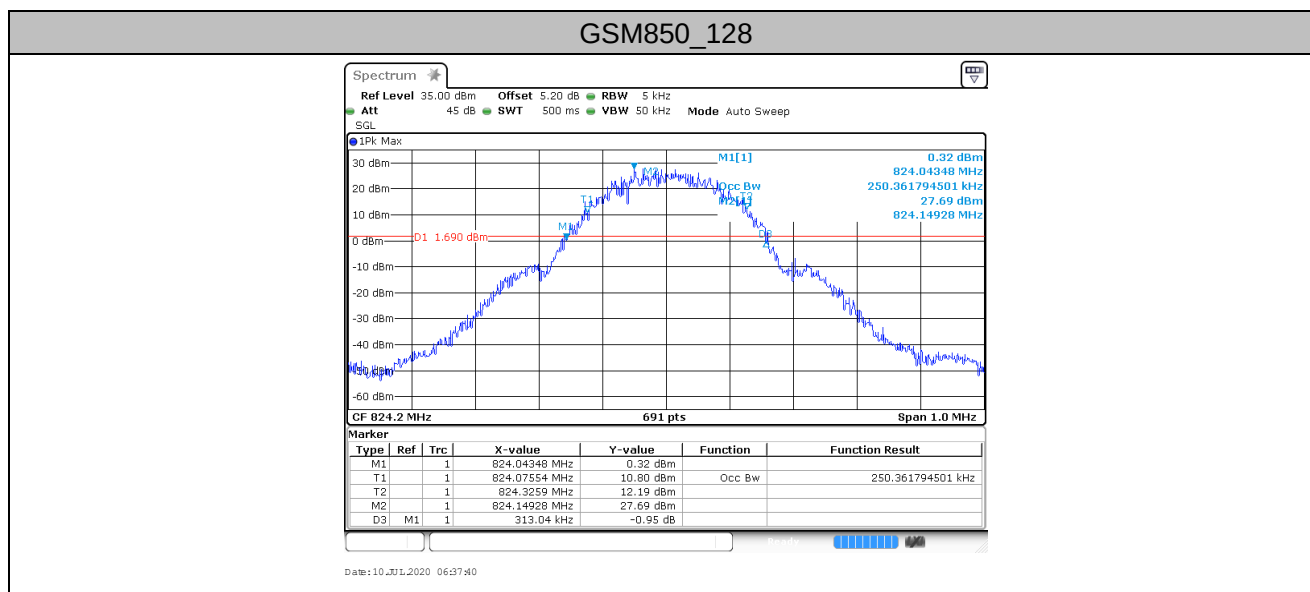


## 4. 26dB Bandwidth and Occupied Bandwidth

### 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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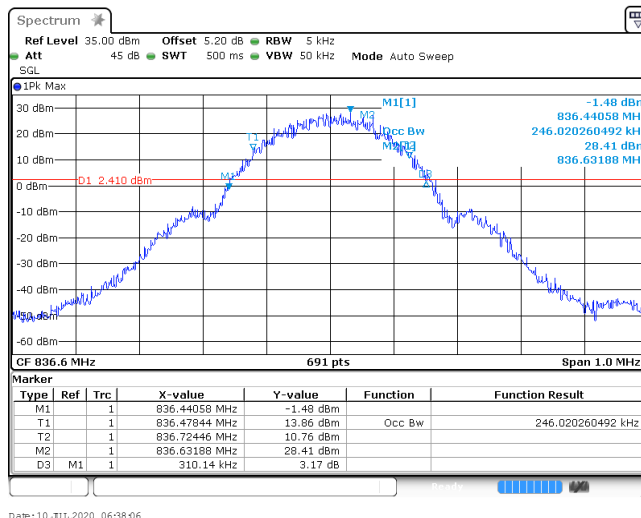
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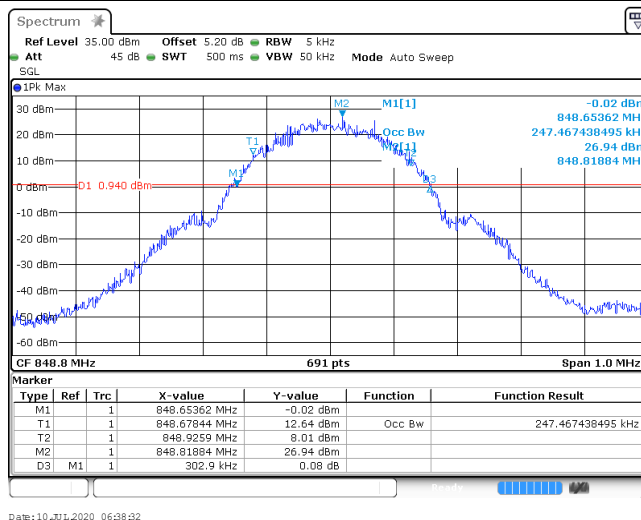
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### GSM850\_190



### GSM850\_251



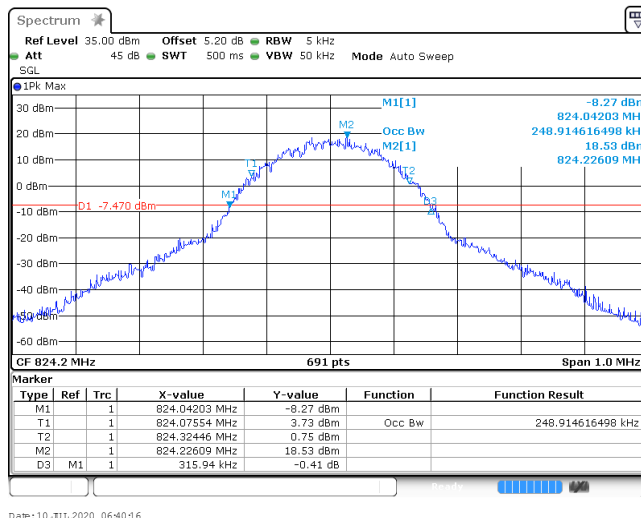
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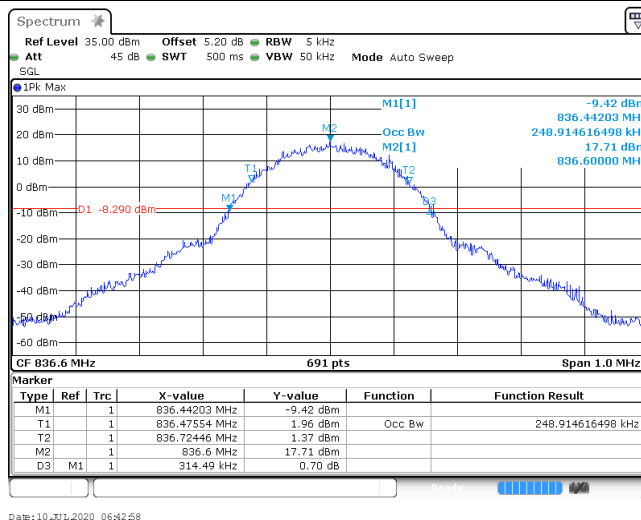
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EGPRS850\_128



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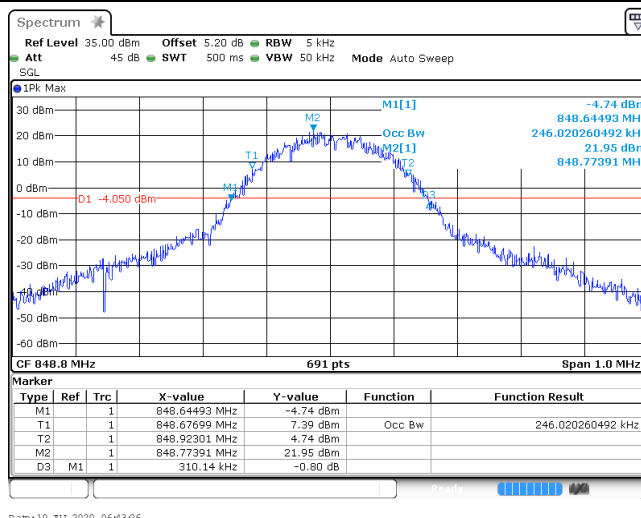
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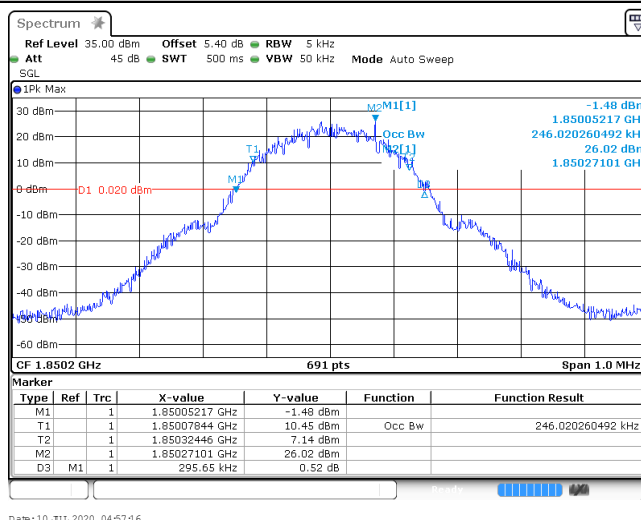
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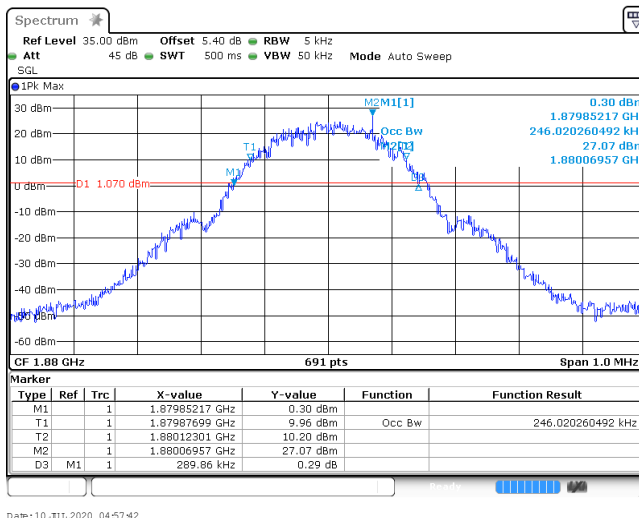
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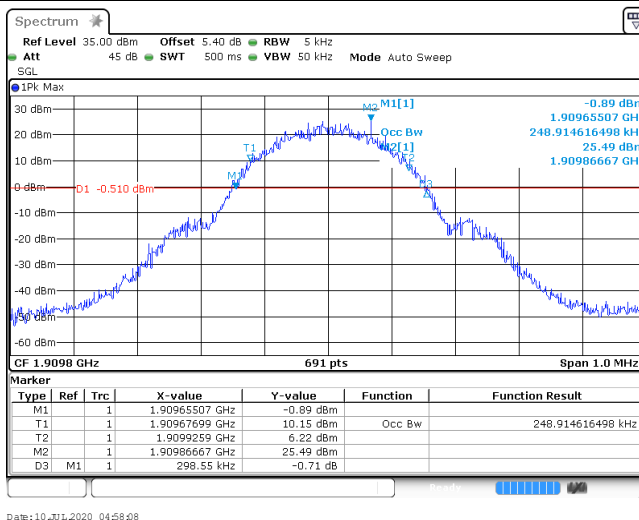
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### GSM1900\_661



### GSM1900\_810



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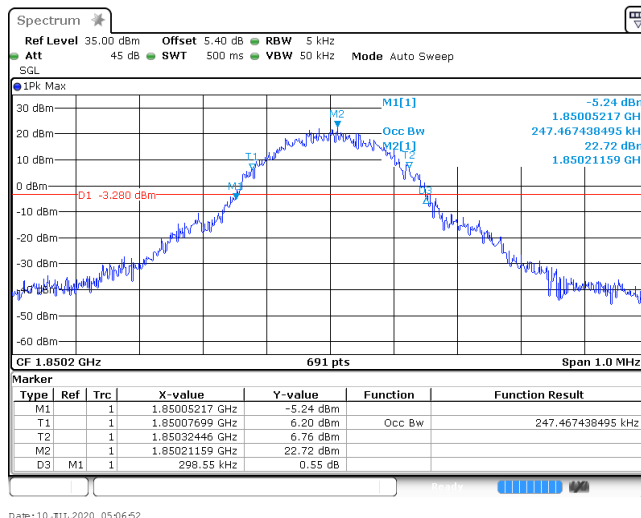
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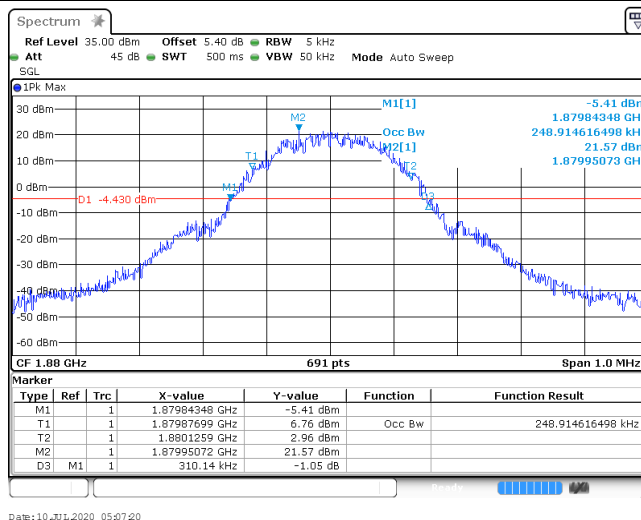
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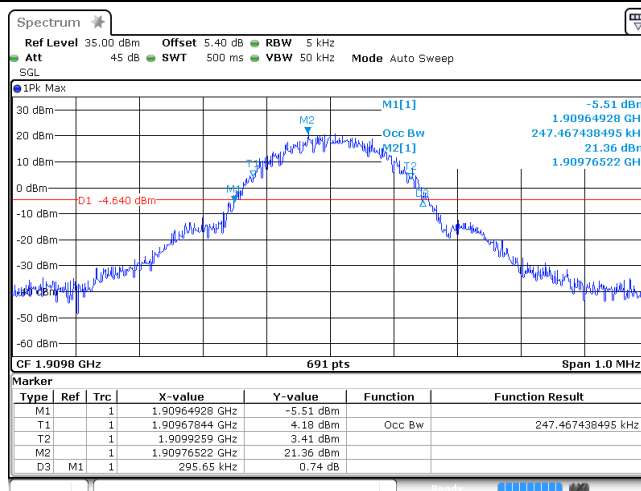
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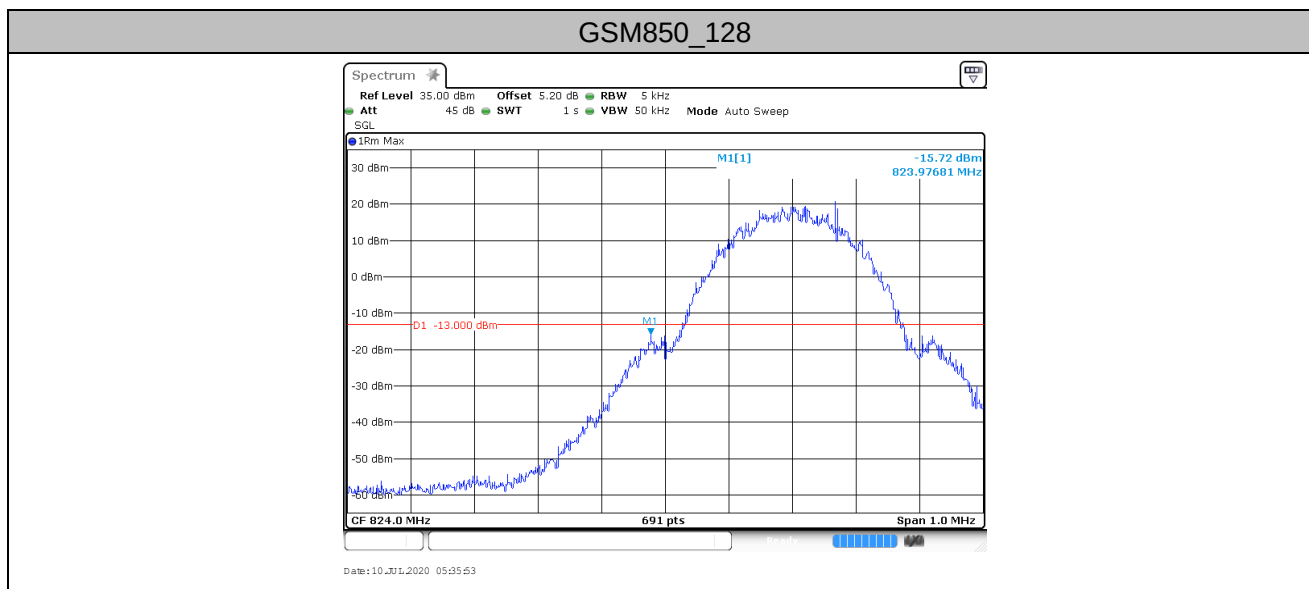
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## 5. Band Edge Compliance

### 5.1. Test Plots



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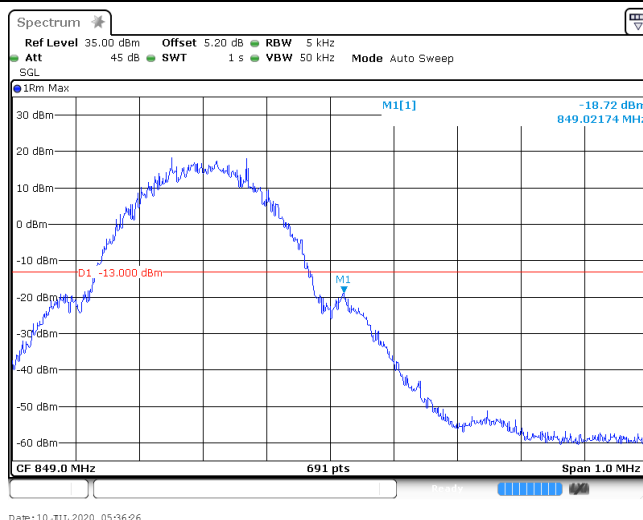
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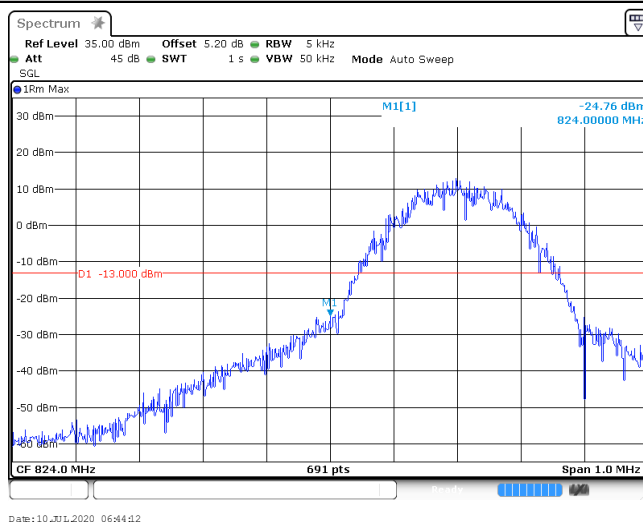
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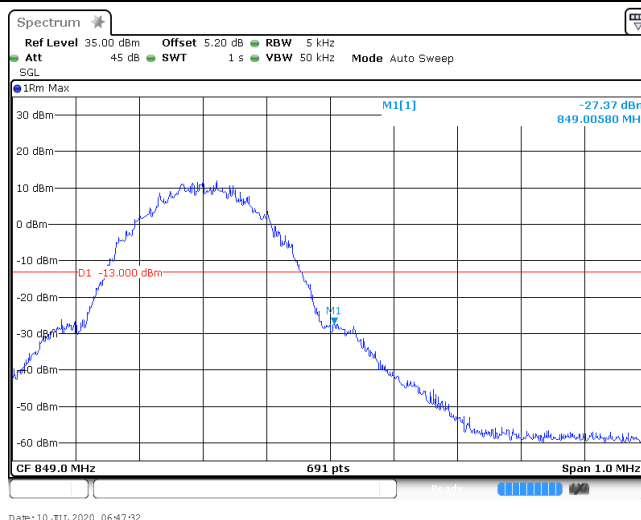


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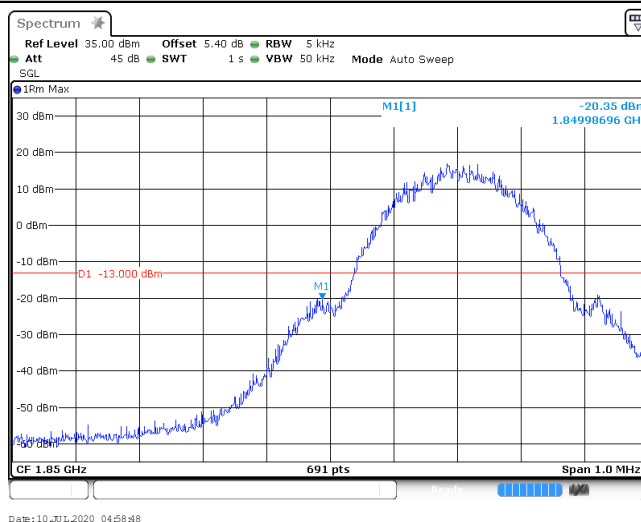




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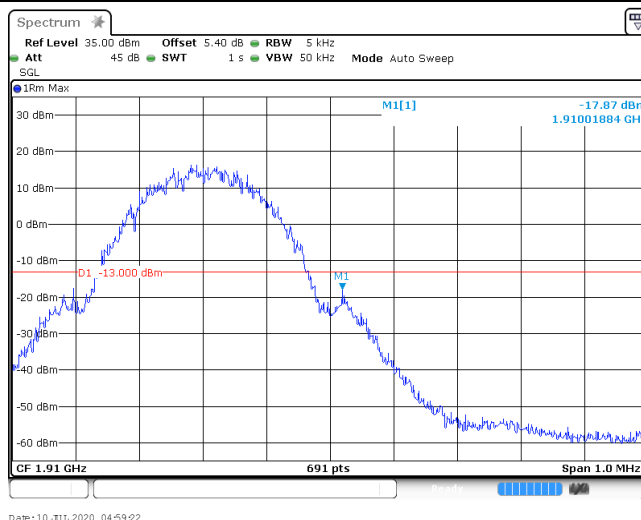


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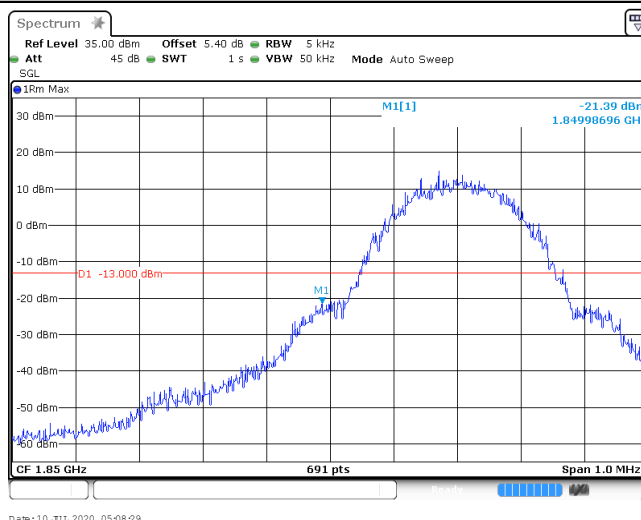


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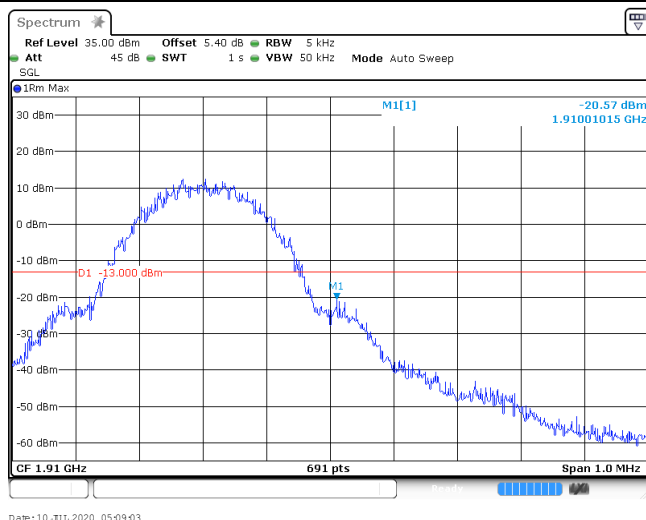
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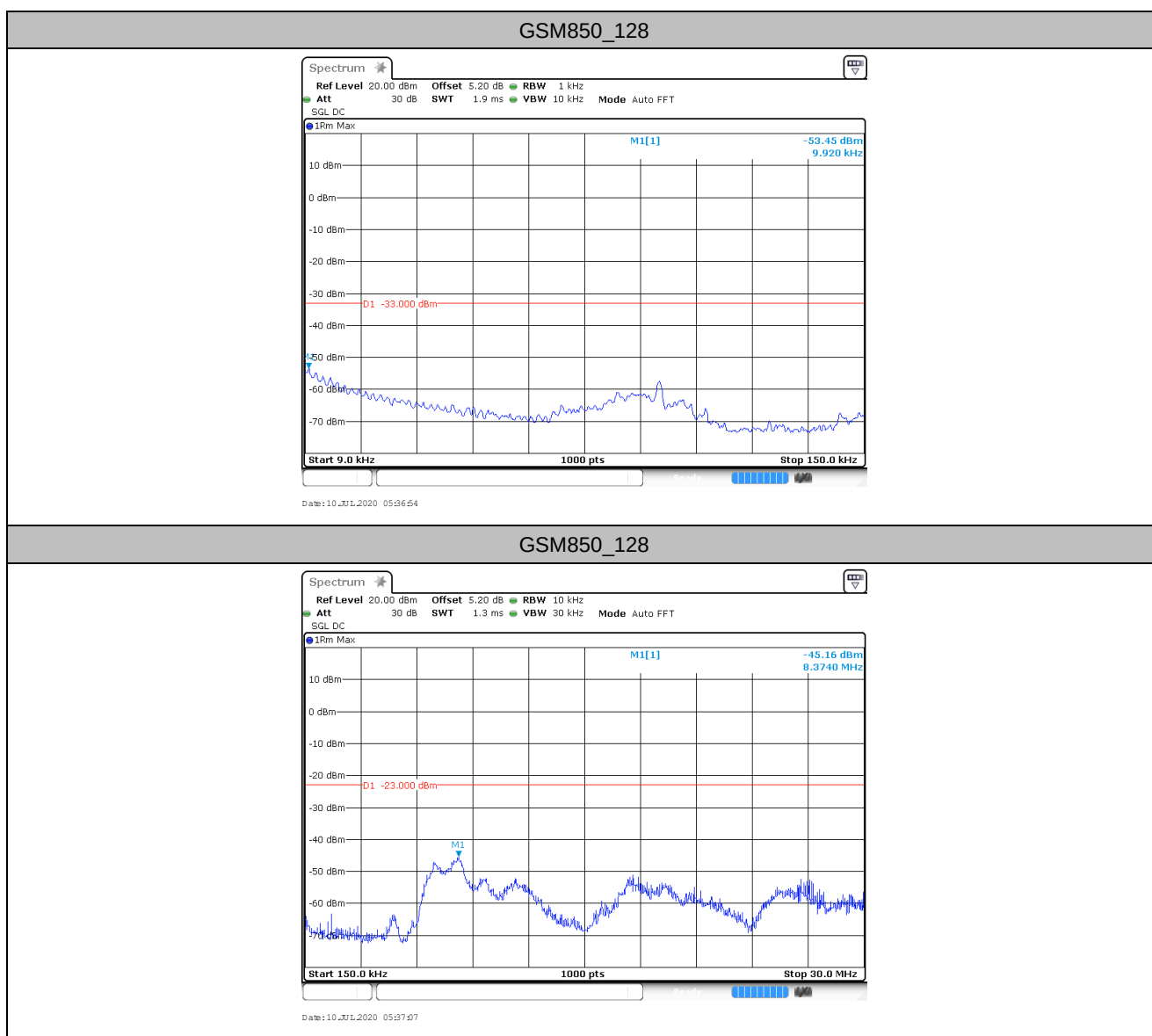
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## 6. Spurious Emission at Antenna Terminal

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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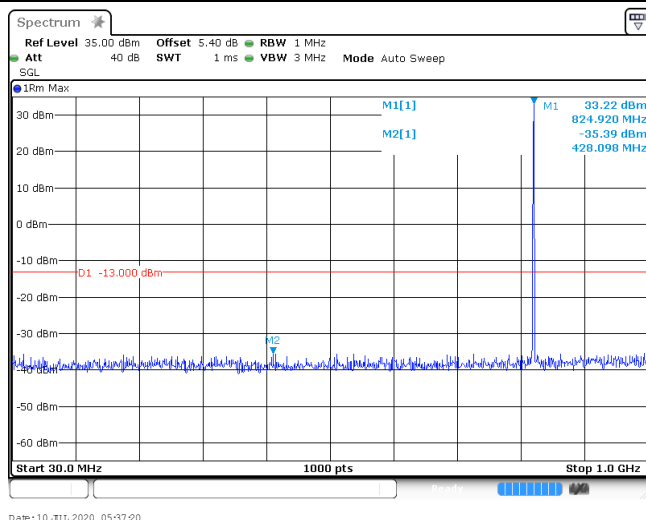
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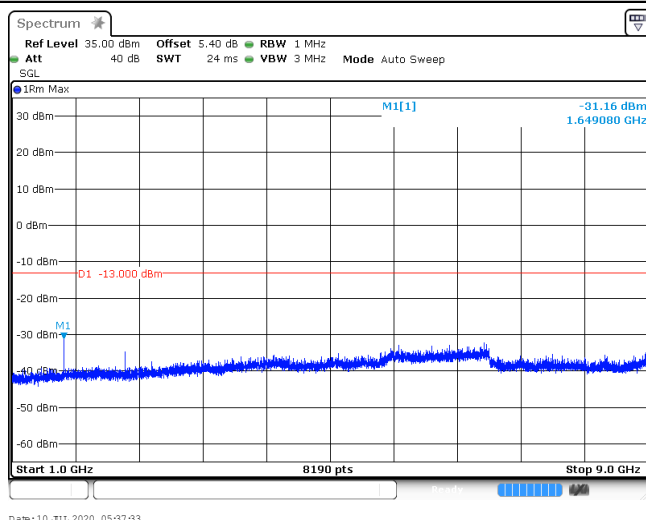


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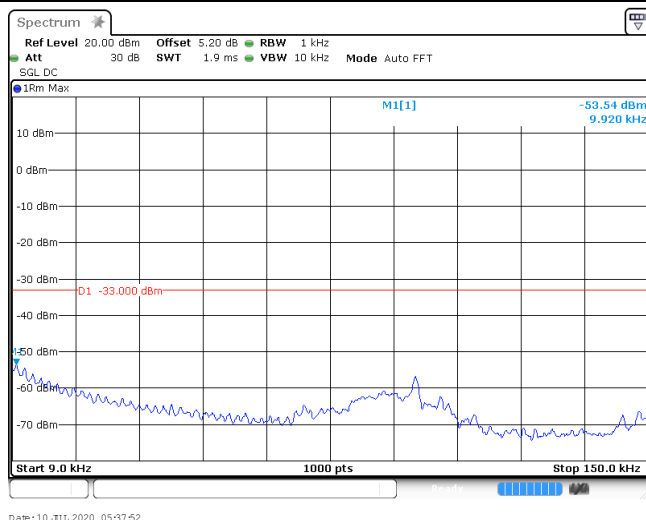


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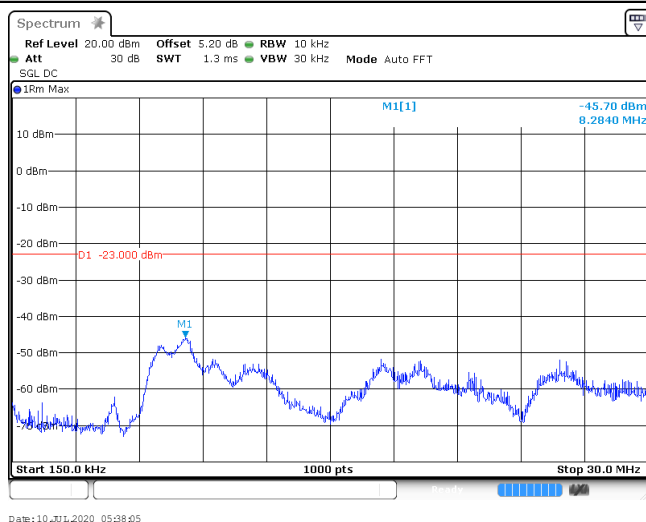




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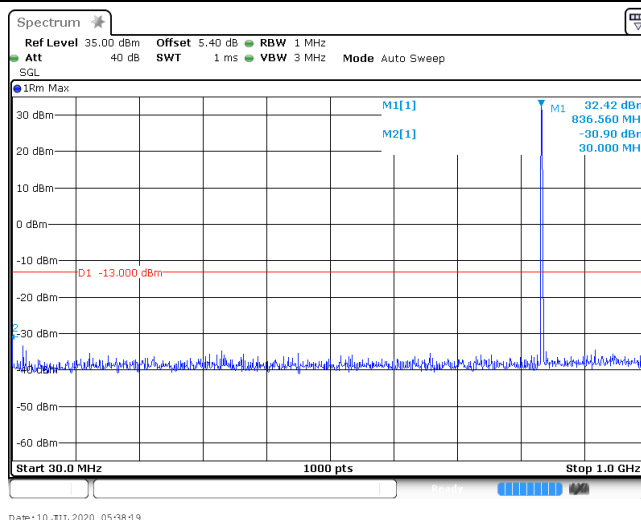
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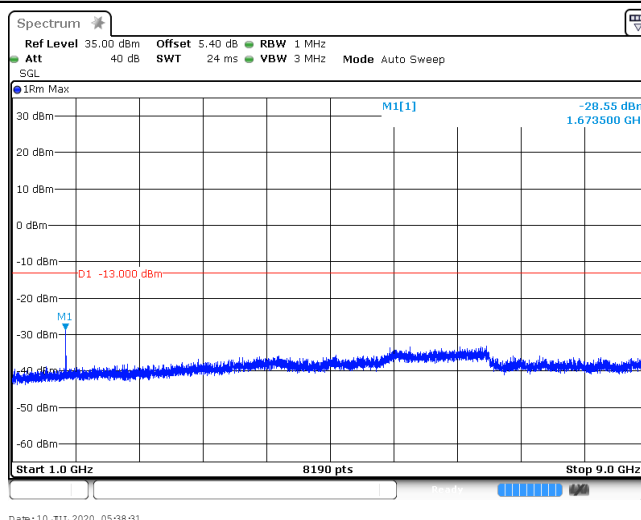


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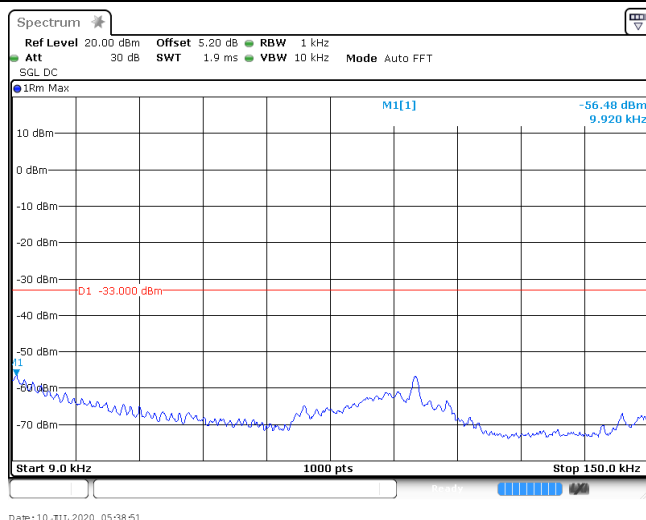
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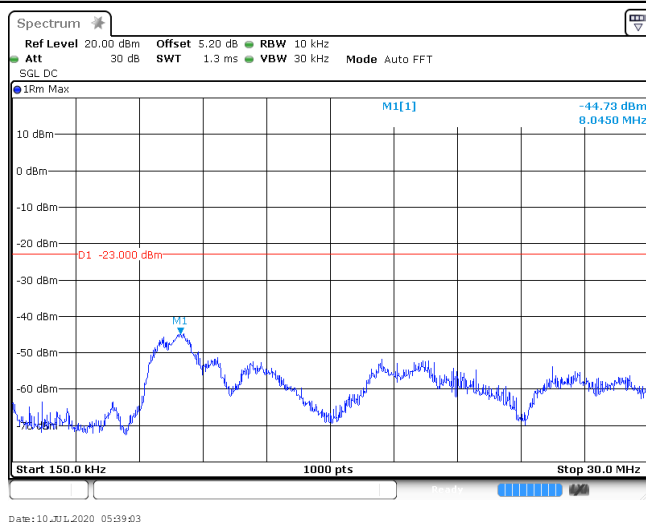
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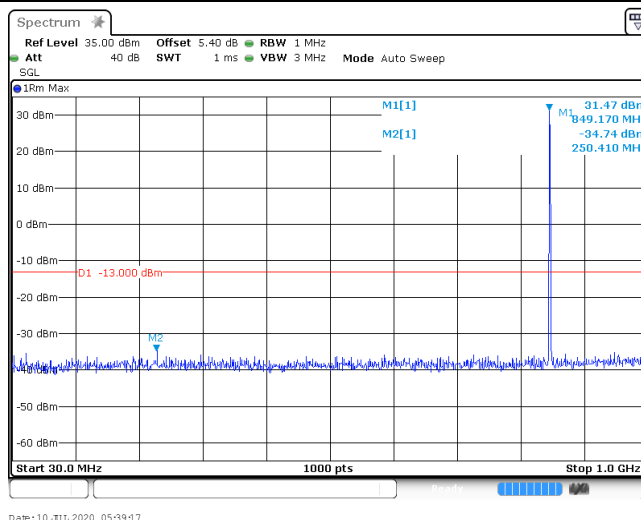
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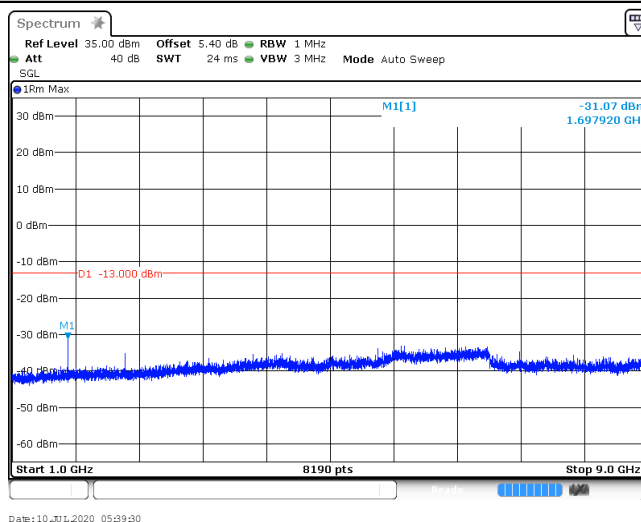
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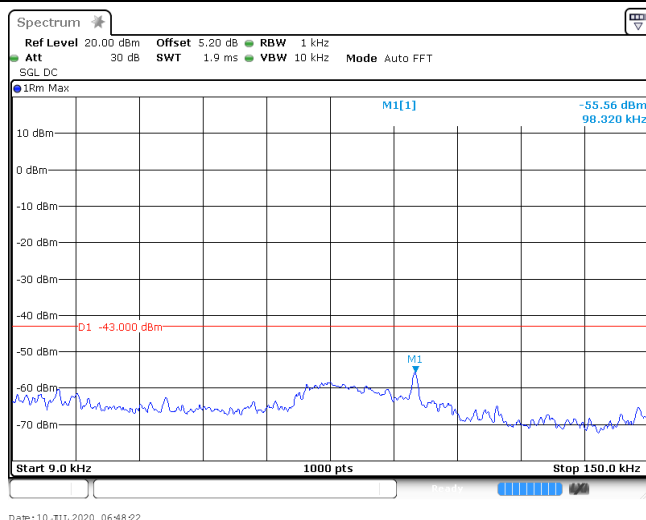
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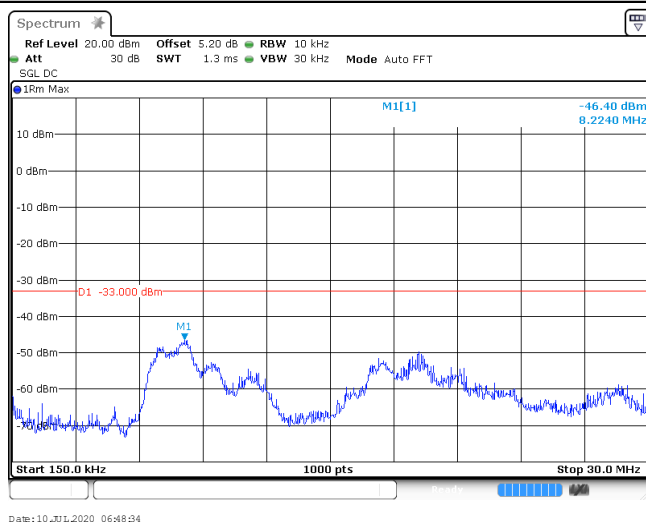
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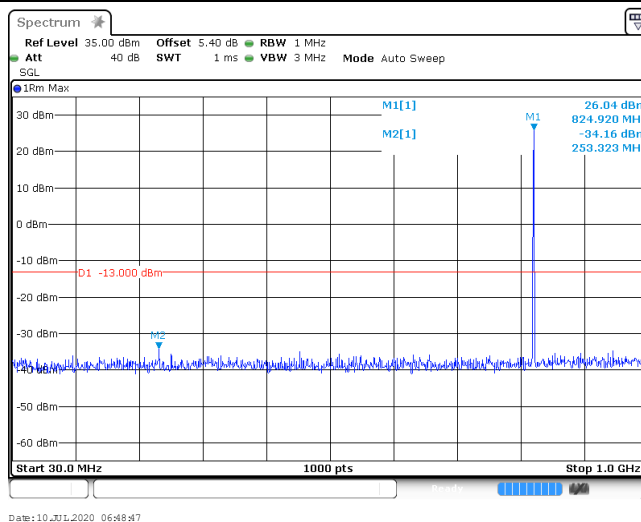
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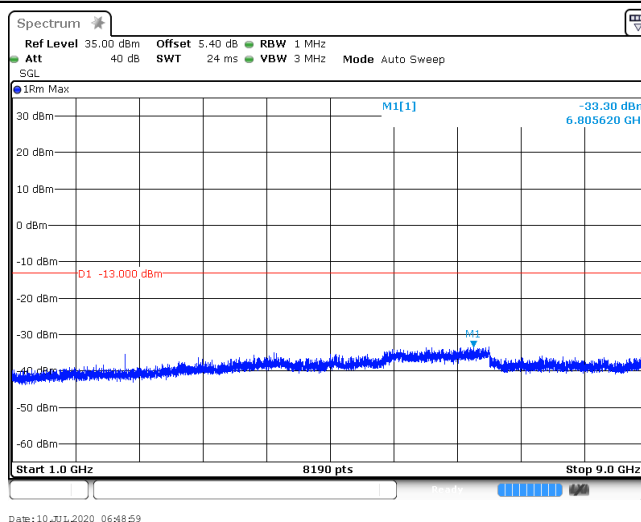
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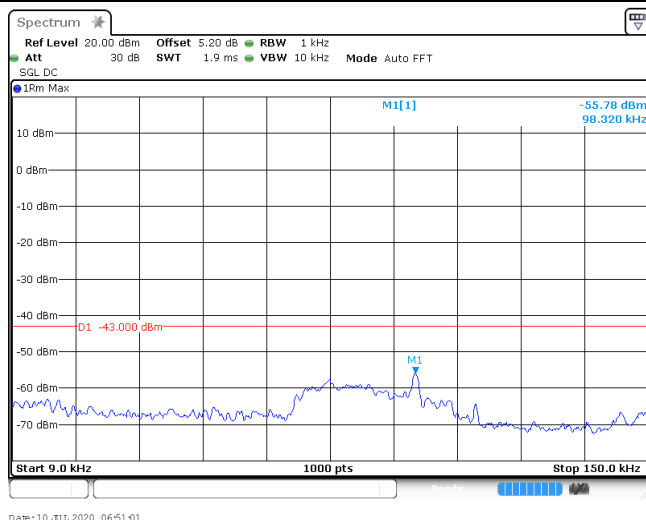


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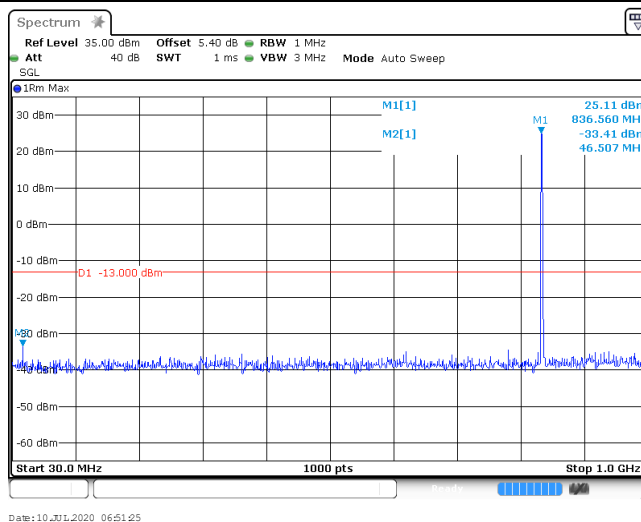
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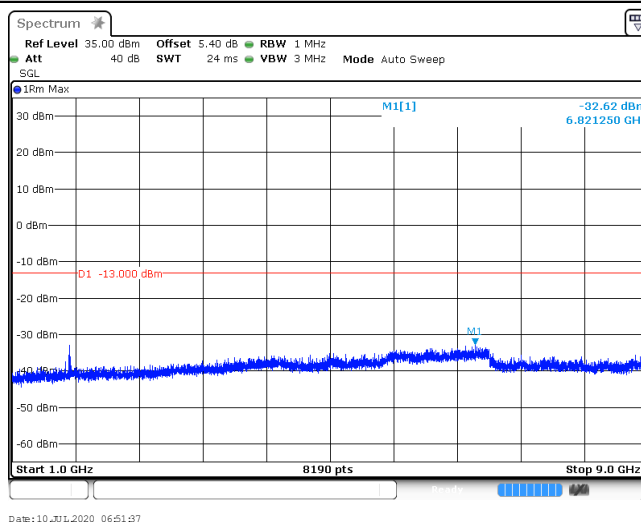


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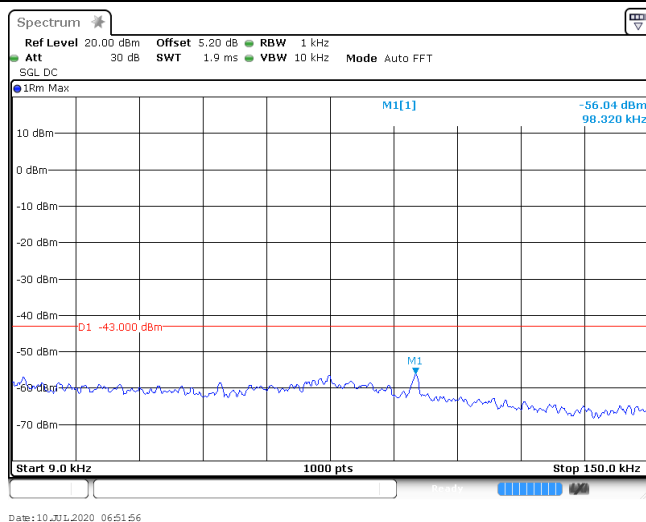
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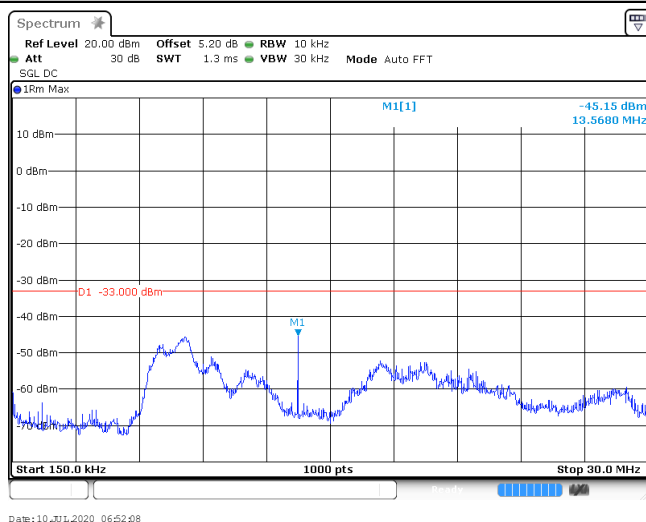
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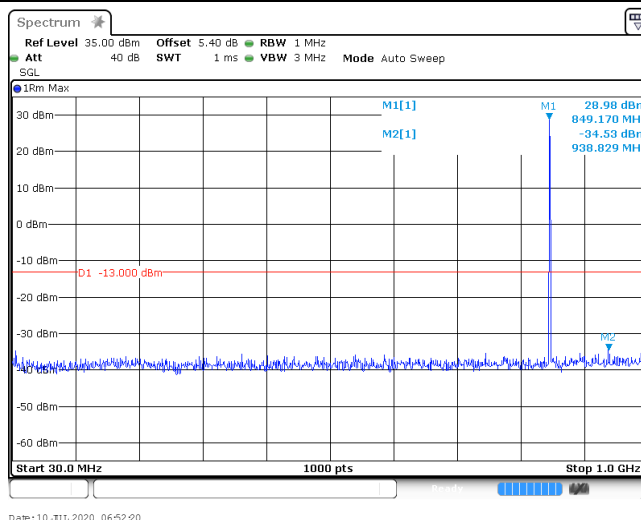
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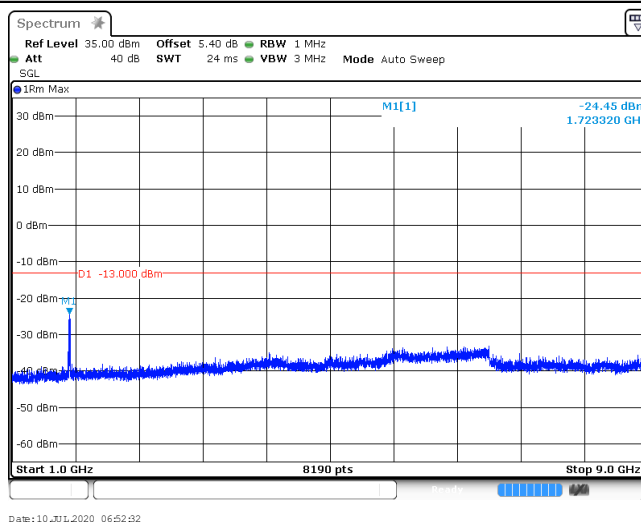
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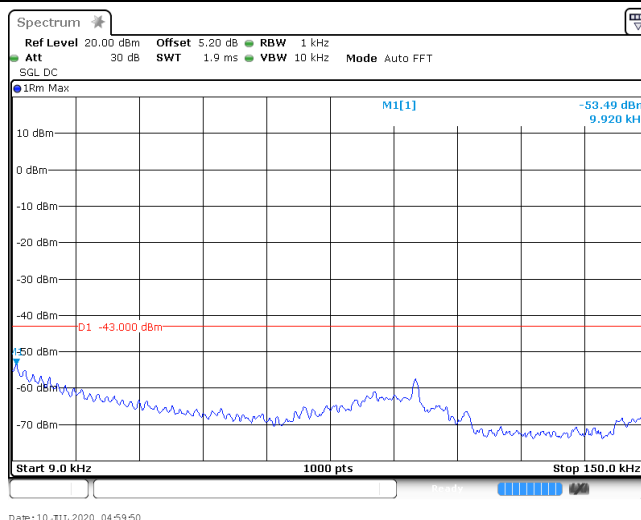


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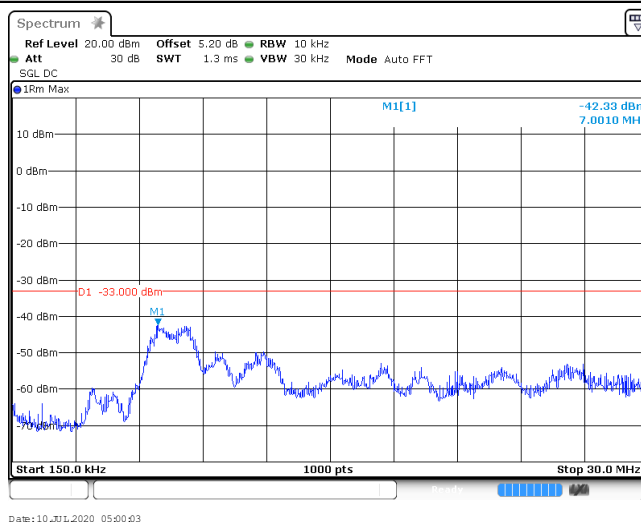




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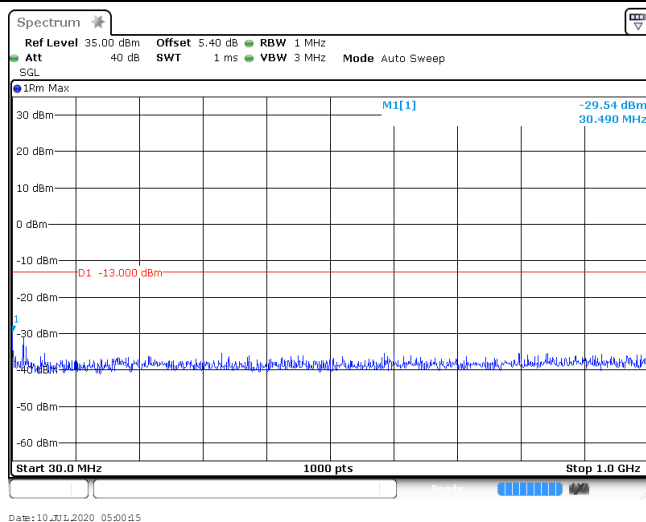
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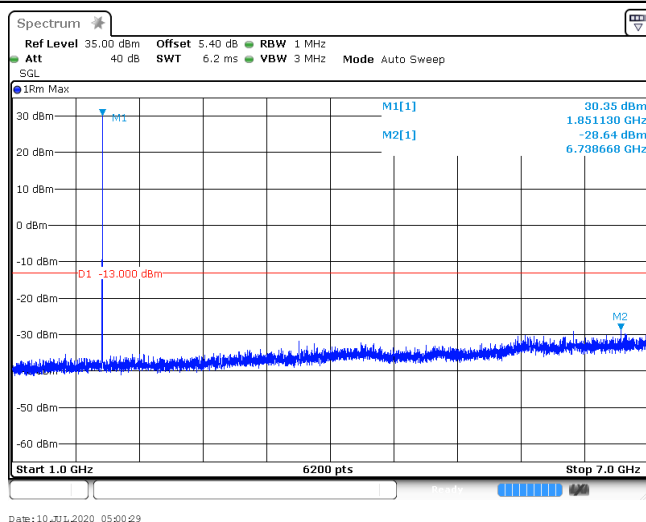
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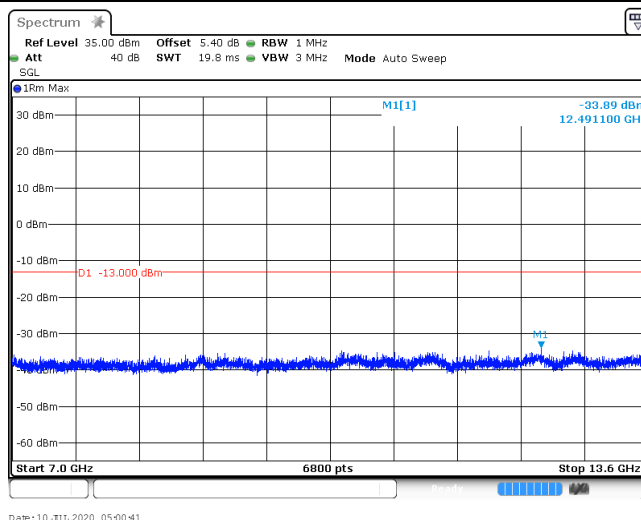
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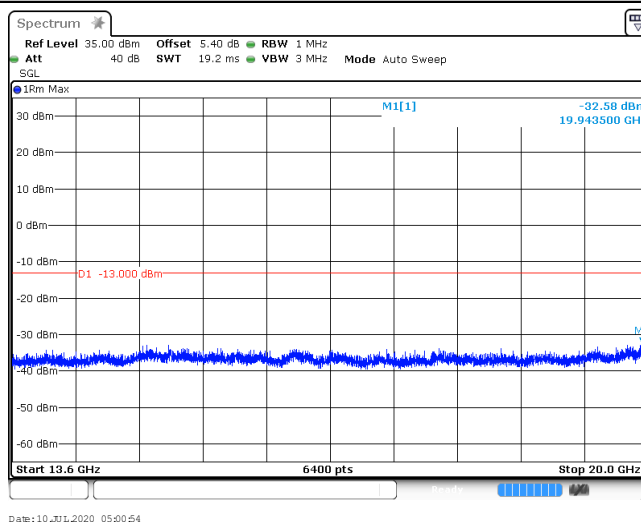
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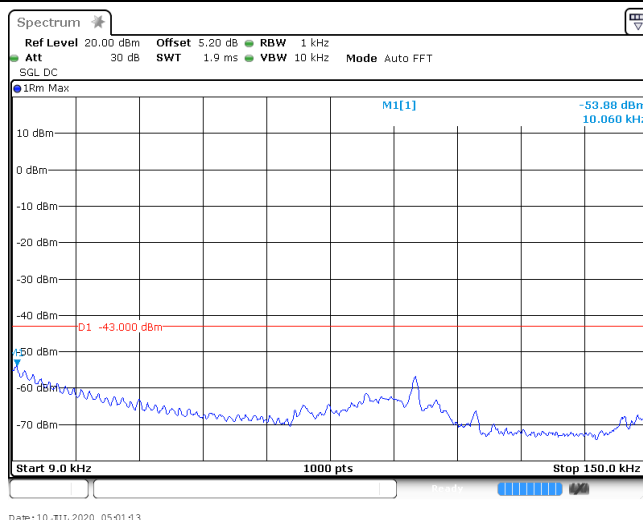
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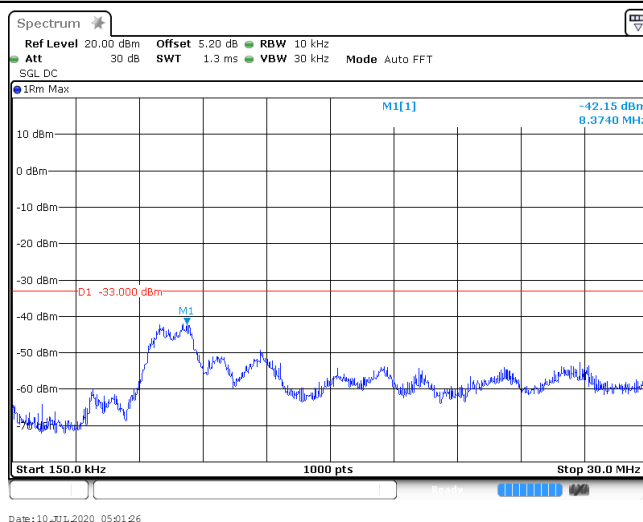
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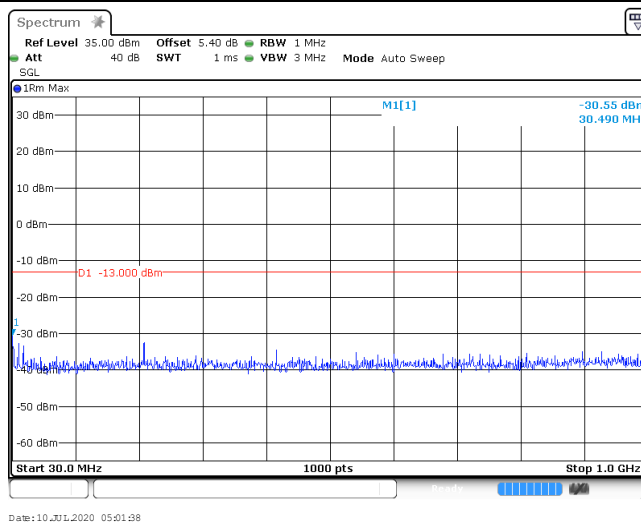
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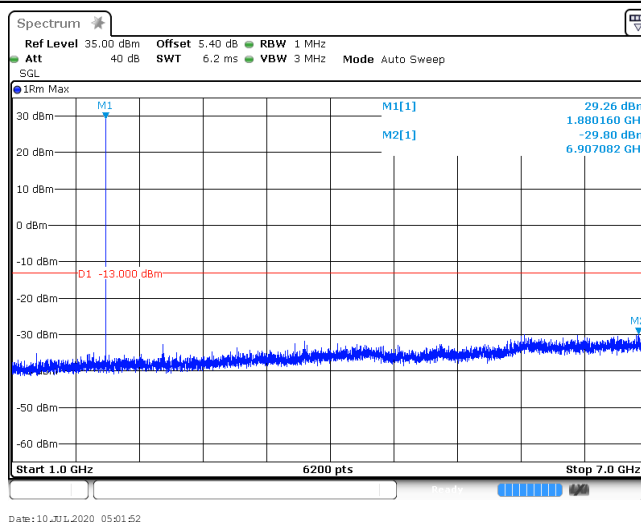
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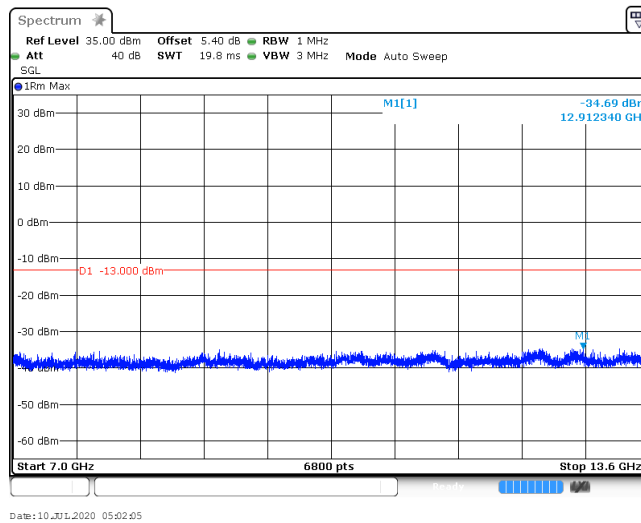
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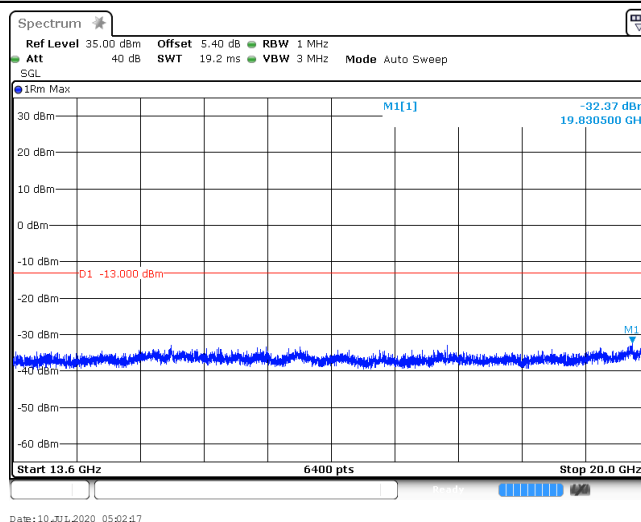
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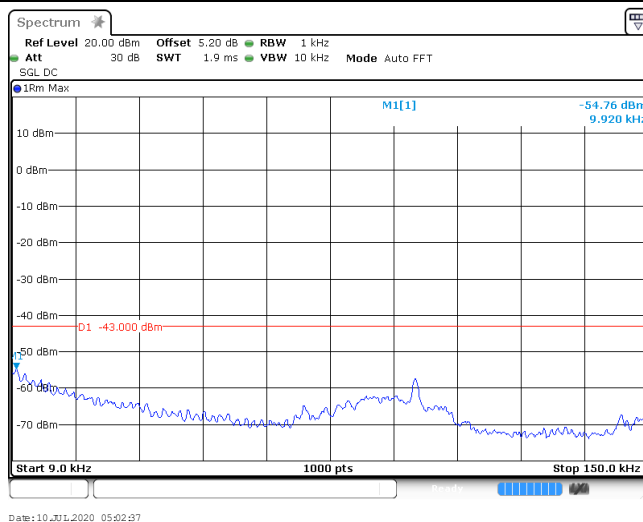


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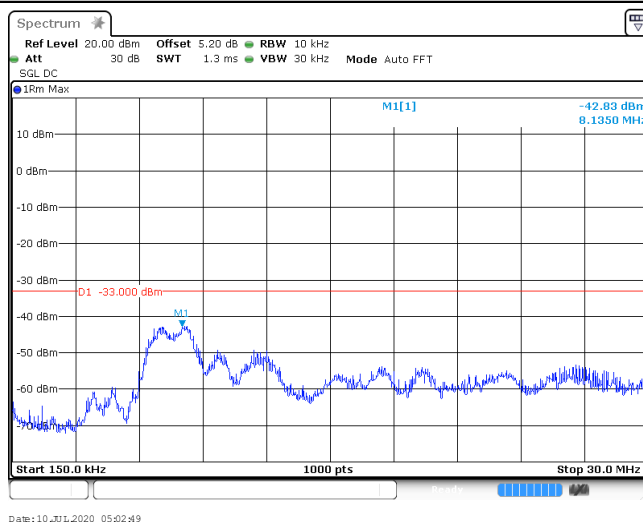
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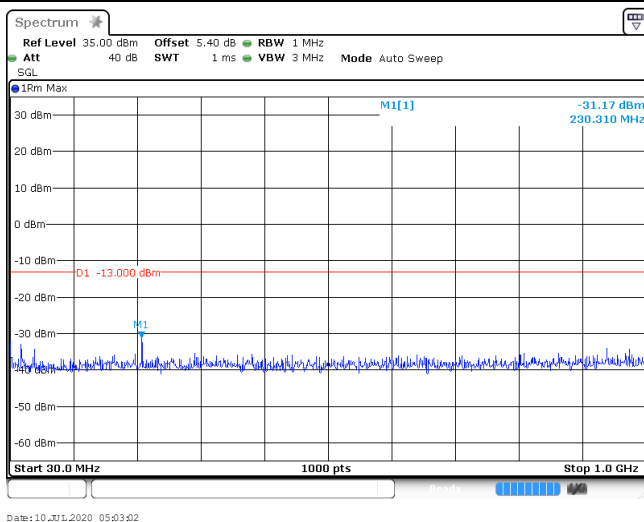
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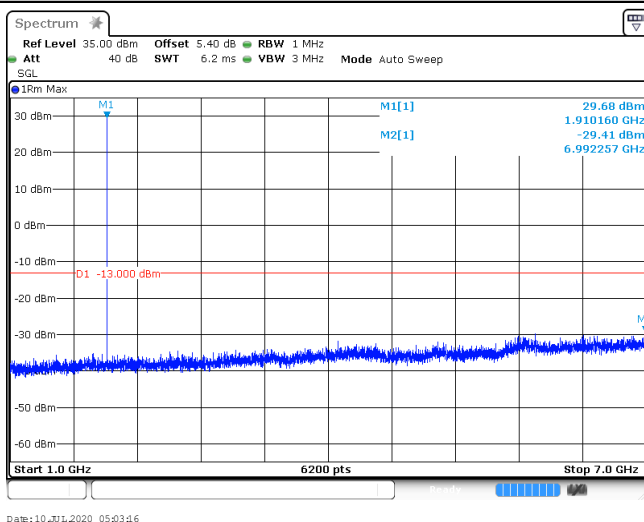
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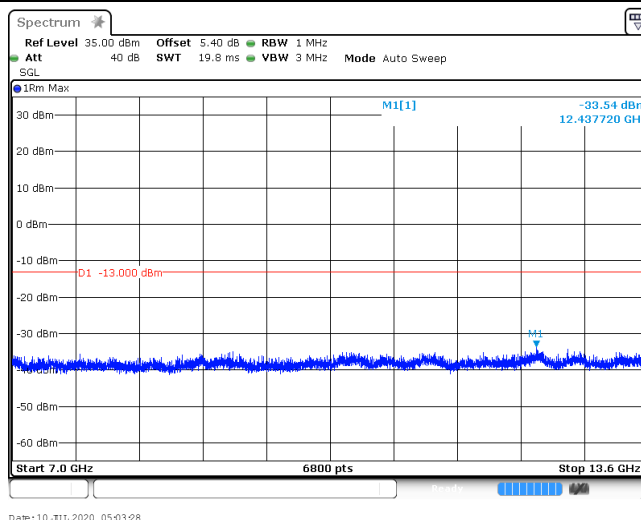
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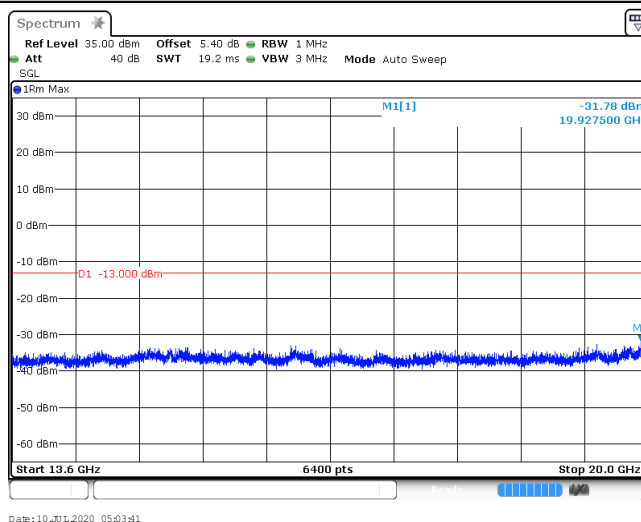
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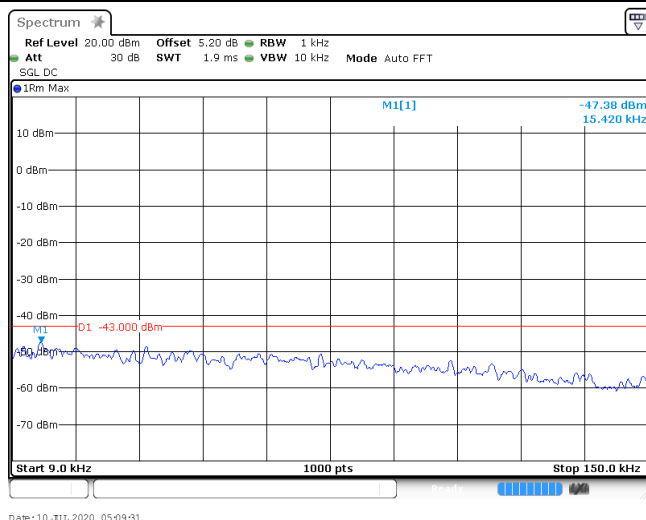
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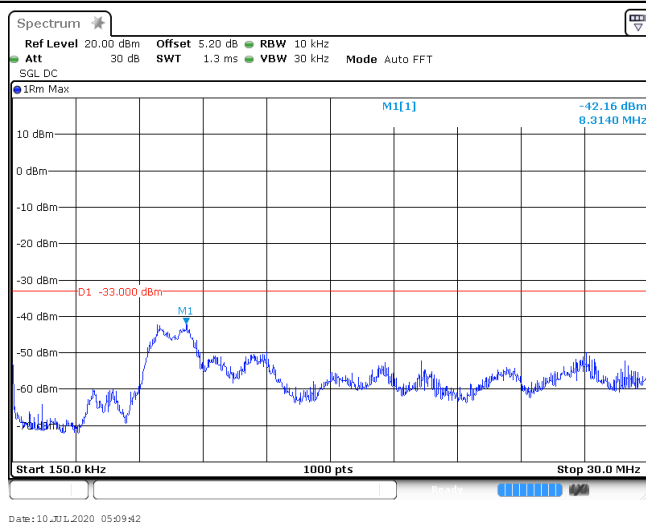
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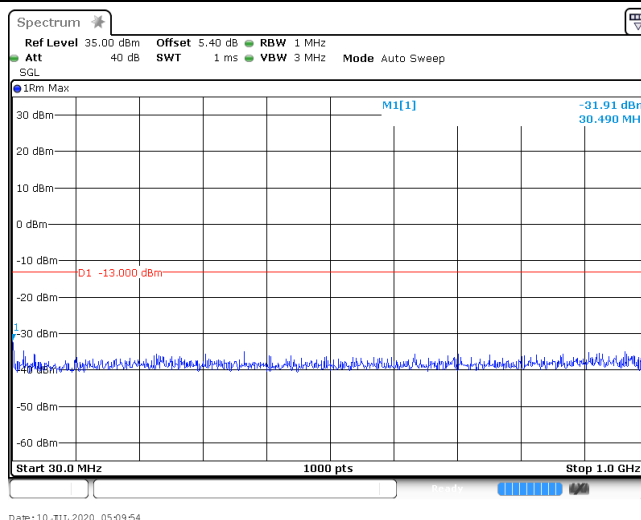
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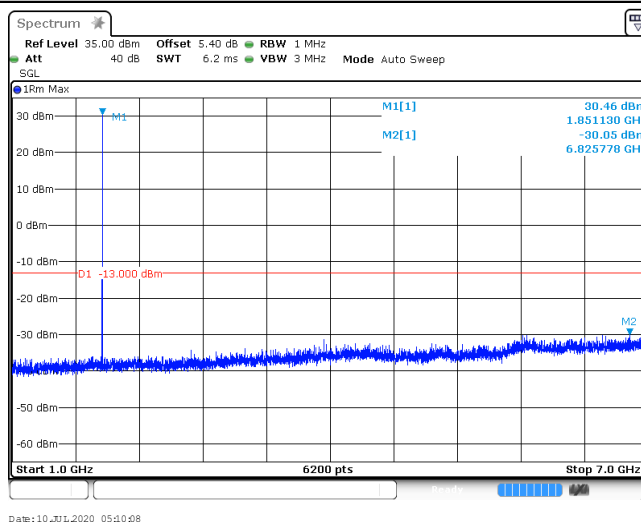
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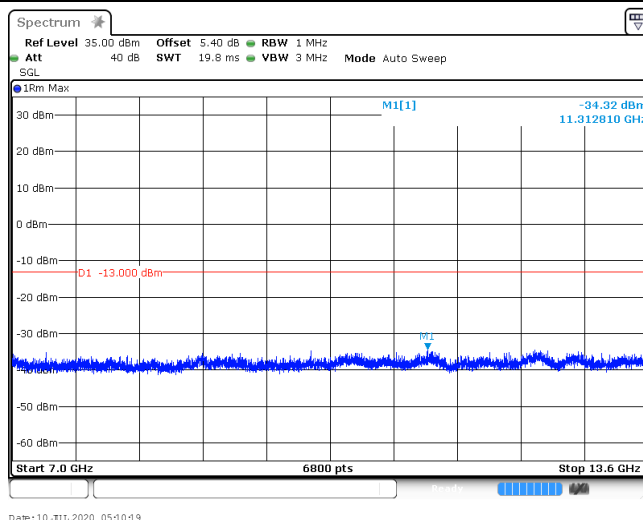
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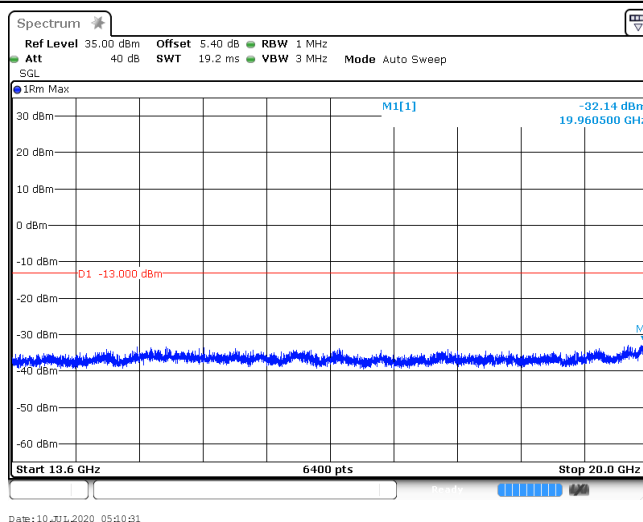
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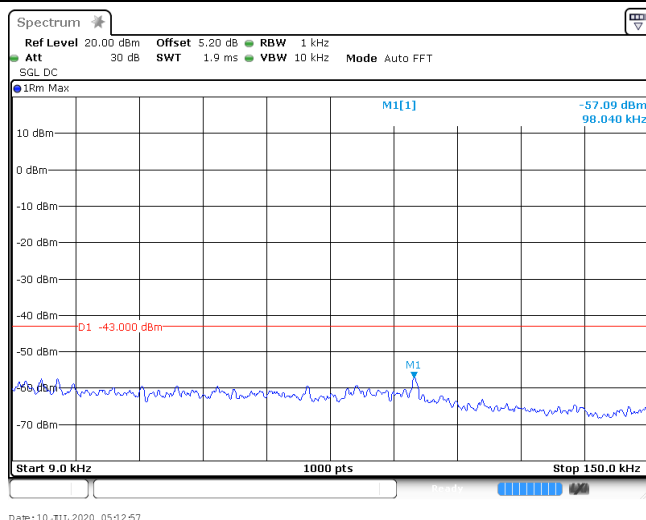
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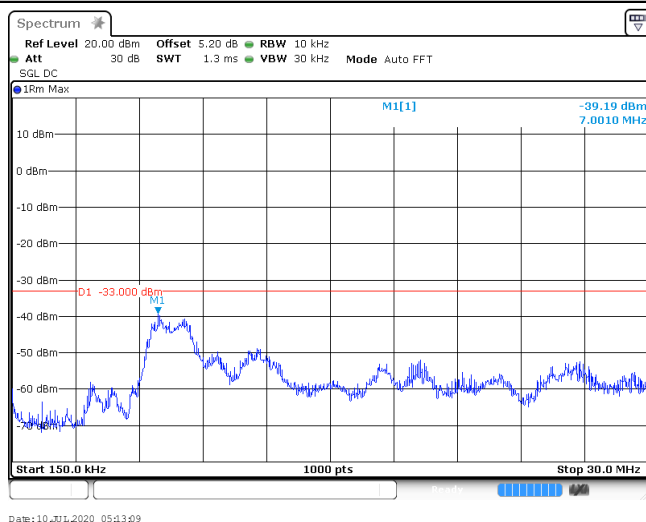
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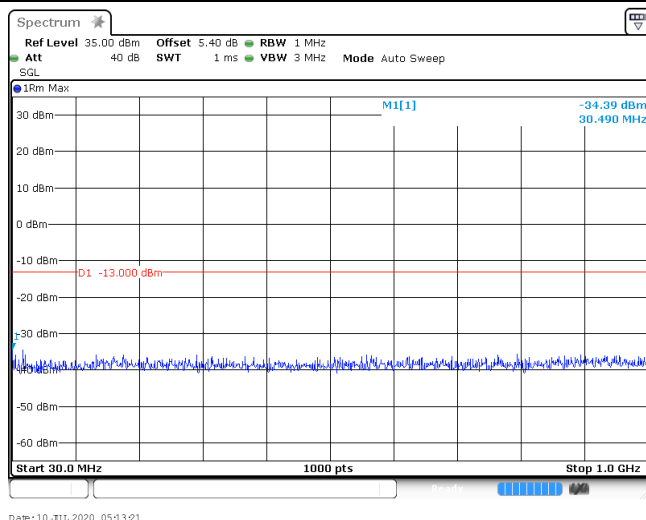
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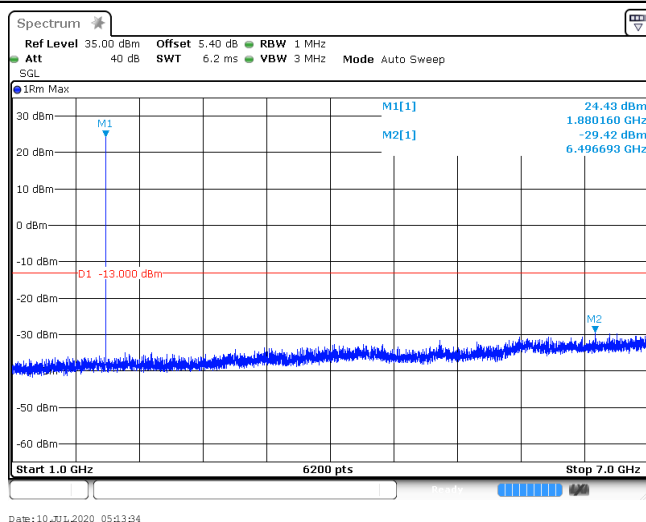
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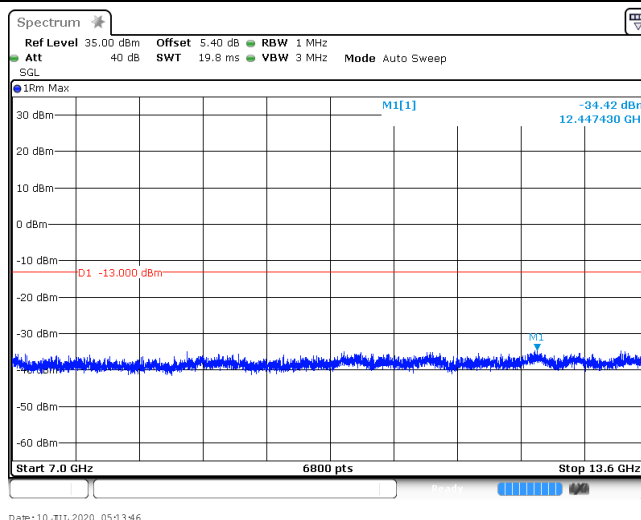
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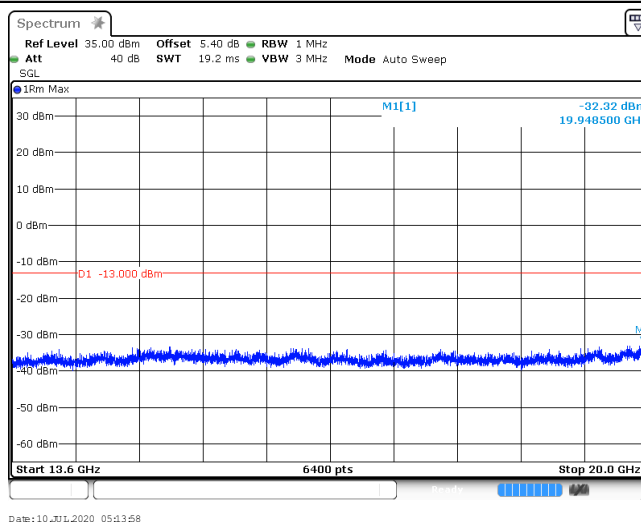
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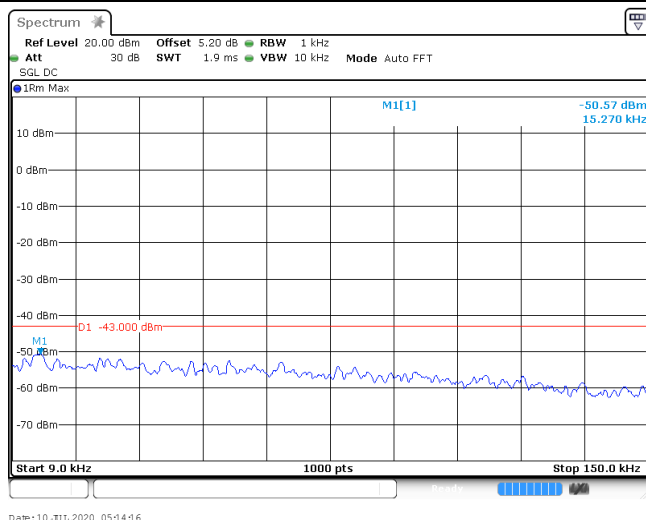
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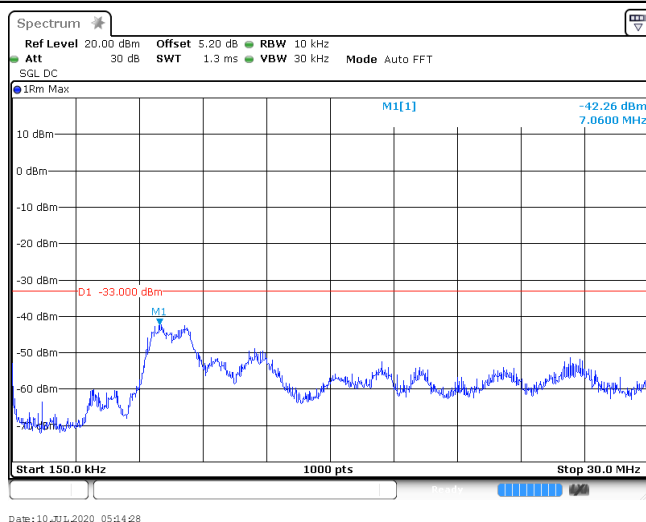
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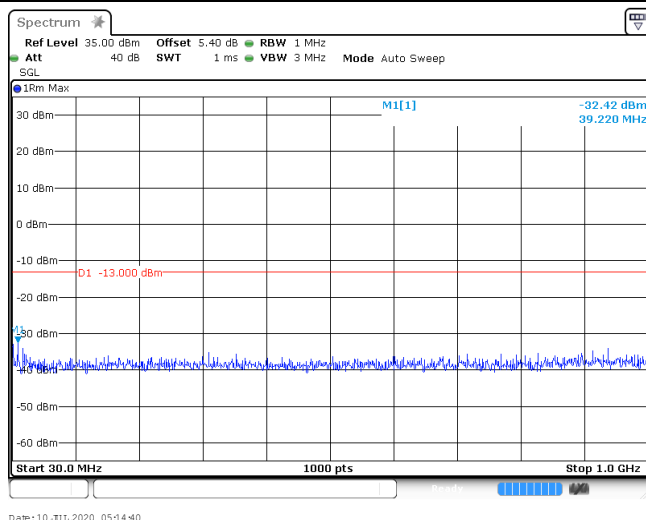
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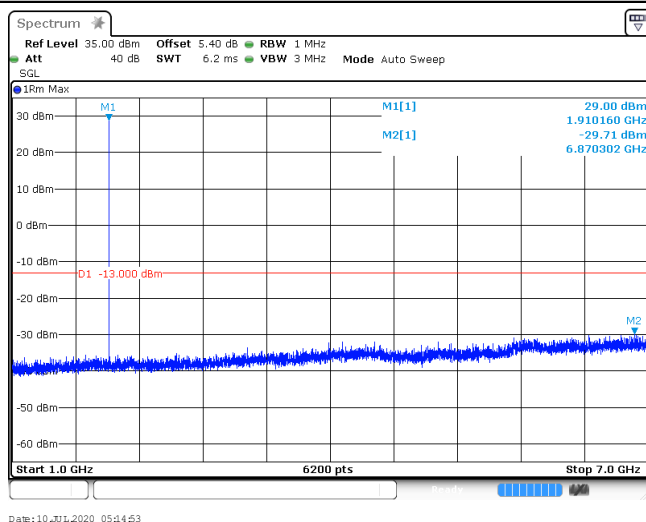
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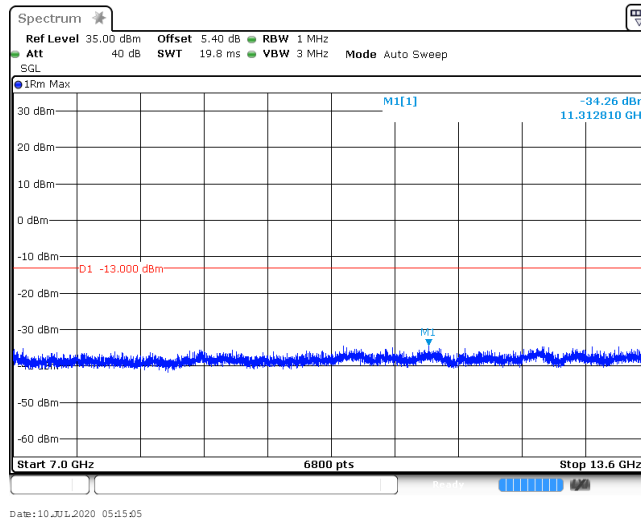
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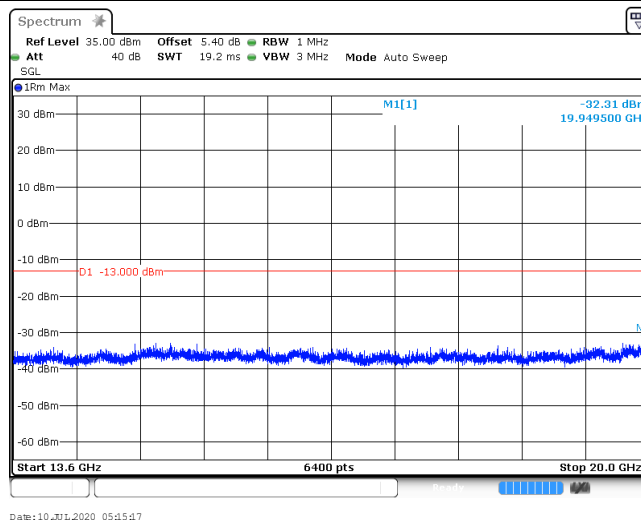
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## 7. Field Strength of Spurious Radiation

### 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 |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 110.8050        | -64.61      | -13.00           | 51.61       | 116         | 131       | Vertical     |
| 2699.5399       | -37.54      | -13.00           | 24.54       | 178         | 205       | Vertical     |
| 3700.5234       | -43.97      | -13.00           | 30.97       | 252         | 195       | Vertical     |
| 5550.5850       | -52.38      | -13.00           | 39.38       | 266         | 99        | Vertical     |
| 14502.8834      | -47.06      | -13.00           | 34.06       | 198         | 323       | Vertical     |
| 17999.0000      | -39.02      | -13.00           | 26.02       | 276         | 354       | Vertical     |
| 44.3082         | -62.91      | -13.00           | 49.91       | 185         | 324       | Horizontal   |
| 2699.9400       | -36.32      | -13.00           | 23.32       | 166         | 71        | Horizontal   |
| 3700.5234       | -49.08      | -13.00           | 36.08       | 173         | 196       | Horizontal   |
| 5550.5850       | -52.60      | -13.00           | 39.60       | 125         | 228       | Horizontal   |
| 16397.9466      | -43.12      | -13.00           | 30.12       | 189         | 196       | Horizontal   |
| 17998.5000      | -44.19      | -13.00           | 31.19       | 258         | 356       | Horizontal   |

#### 7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 111.7751        | -63.80      | -13.00           | 50.80       | 166         | 67        | Vertical     |
| 2705.9412       | -37.52      | -13.00           | 24.52       | 252         | 296       | Vertical     |
| 3760.0253       | -46.87      | -13.00           | 33.87       | 233         | 195       | Vertical     |
| 5640.0880       | -49.25      | -13.00           | 36.25       | 284         | 195       | Vertical     |
| 14701.8901      | -47.16      | -13.00           | 34.16       | 184         | 227       | Vertical     |
| 17998.5000      | -39.22      | -13.00           | 26.22       | 295         | 291       | Vertical     |
| 41.6891         | -63.93      | -13.00           | 50.93       | 196         | 196       | Horizontal   |
| 2703.5407       | -36.43      | -13.00           | 23.43       | 176         | 191       | Horizontal   |
| 3760.0253       | -45.64      | -13.00           | 32.64       | 252         | 68        | Horizontal   |
| 5640.0880       | -48.19      | -13.00           | 35.19       | 163         | 163       | Horizontal   |
| 16395.4465      | -43.31      | -13.00           | 30.31       | 127         | 291       | Horizontal   |
| 17999.5000      | -44.53      | -13.00           | 31.53       | 252         | 260       | Horizontal   |



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### 7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 112.5996        | -64.55      | -13.00           | 51.55       | 196         | 99        | Vertical     |
| 2701.5403       | -37.64      | -13.00           | 24.64       | 284         | 153       | Vertical     |
| 3819.5273       | -49.67      | -13.00           | 36.67       | 125         | 67        | Vertical     |
| 5729.0910       | -48.47      | -13.00           | 35.47       | 176         | 195       | Vertical     |
| 14520.8840      | -47.38      | -13.00           | 34.38       | 282         | 163       | Vertical     |
| 17994.4998      | -38.63      | -13.00           | 25.63       | 284         | 35        | Vertical     |
| 41.3011         | -63.83      | -13.00           | 50.83       | 133         | 36        | Horizontal   |
| 2681.5363       | -36.95      | -13.00           | 23.95       | 172         | 177       | Horizontal   |
| 3819.5273       | -48.65      | -13.00           | 35.65       | 184         | 67        | Horizontal   |
| 5729.5910       | -47.20      | -13.00           | 34.20       | 169         | 258       | Horizontal   |
| 16397.9466      | -43.31      | -13.00           | 30.31       | 254         | 99        | Horizontal   |
| 17989.9997      | -44.26      | -13.00           | 31.26       | 211         | 36        | 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 |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 109.3015        | -63.66      | -13.00           | 50.66       | 177         | 68        | Vertical     |
| 1648.5297       | -44.93      | -13.00           | 31.93       | 163         | 93        | Vertical     |
| 2472.6945       | -40.56      | -13.00           | 27.56       | 125         | 291       | Vertical     |
| 3297.0099       | -60.50      | -13.00           | 47.50       | 189         | 355       | Vertical     |
| 14488.3829      | -47.37      | -13.00           | 34.37       | 254         | 291       | Vertical     |
| 17999.5000      | -39.73      | -13.00           | 26.73       | 237         | 195       | Vertical     |
| 40.3795         | -63.68      | -13.00           | 50.68       | 233         | 259       | Horizontal   |
| 1648.5297       | -47.48      | -13.00           | 34.48       | 287         | 123       | Horizontal   |
| 2472.6945       | -43.89      | -13.00           | 30.89       | 211         | 40        | Horizontal   |
| 3297.0099       | -50.19      | -13.00           | 37.19       | 285         | 195       | Horizontal   |
| 16387.9463      | -43.25      | -13.00           | 30.25       | 196         | 323       | Horizontal   |
| 17997.4999      | -44.14      | -13.00           | 31.14       | 114         | 131       | Horizontal   |



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### 7.2.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 110.4170        | -64.11      | -13.00           | 51.11       | 196         | 131       | Vertical     |
| 1672.9346       | -43.62      | -13.00           | 30.62       | 115         | 100       | Vertical     |
| 2509.9020       | -42.37      | -13.00           | 29.37       | 172         | 213       | Vertical     |
| 3346.5116       | -61.01      | -13.00           | 48.01       | 252         | 4         | Vertical     |
| 14483.3828      | -46.74      | -13.00           | 33.74       | 238         | 355       | Vertical     |
| 17996.9999      | -39.78      | -13.00           | 26.78       | 274         | 163       | Vertical     |
| 41.2041         | -63.45      | -13.00           | 50.45       | 211         | 333       | Horizontal   |
| 1673.3347       | -43.16      | -13.00           | 30.16       | 269         | 202       | Horizontal   |
| 2509.9020       | -42.02      | -13.00           | 29.02       | 133         | 196       | Horizontal   |
| 3346.5116       | -55.45      | -13.00           | 42.45       | 212         | 202       | Horizontal   |
| 16403.9468      | -43.05      | -13.00           | 30.05       | 287         | 360       | Horizontal   |
| 17995.4999      | -44.30      | -13.00           | 31.30       | 178         | 268       | Horizontal   |

### 7.2.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height [cm] | Angle [°] | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 111.0961        | -64.40      | -13.00           | 51.40       | 286         | 257       | Vertical     |
| 1697.7395       | -47.26      | -13.00           | 34.26       | 211         | 173       | Vertical     |
| 2546.3093       | -42.82      | -13.00           | 29.82       | 234         | 118       | Vertical     |
| 3395.5132       | -63.22      | -13.00           | 50.22       | 187         | 352       | Vertical     |
| 14682.3894      | -47.05      | -13.00           | 34.05       | 166         | 35        | Vertical     |
| 17998.5000      | -39.53      | -13.00           | 26.53       | 274         | 289       | Vertical     |
| 44.9387         | -64.00      | -13.00           | 51.00       | 233         | 356       | Horizontal   |
| 1697.3395       | -43.98      | -13.00           | 30.98       | 244         | 129       | Horizontal   |
| 2546.3093       | -40.88      | -13.00           | 27.88       | 299         | 166       | Horizontal   |
| 3395.0132       | -58.63      | -13.00           | 45.63       | 141         | 198       | Horizontal   |
| 16393.9465      | -43.41      | -13.00           | 30.41       | 168         | 356       | Horizontal   |
| 17995.9999      | -43.75      | -13.00           | 30.75       | 145         | 356       | 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<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(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    |
| GSM1900   | 810     | VH               | TN                  | 10.46             | 0.005476           | ± 2.5          | PASS    |
| EGPRS1900 | 512     | VL               | TN                  | -6.69             | -0.003616          | ± 2.5          | PASS    |



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|           |     |    |    |        |           |      |      |
|-----------|-----|----|----|--------|-----------|------|------|
| 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<br>(Vdc) | Temperature<br>(°C) | Deviation<br>(Hz) | Deviation<br>(ppm) | Limit<br>(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    |
| 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    |



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|          |     |    |     |        |           |      |      |
|----------|-----|----|-----|--------|-----------|------|------|
| 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 |
| 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 |



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|           |     |    |     |        |           |       |      |
|-----------|-----|----|-----|--------|-----------|-------|------|
| 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 |
| 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 |



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|-----------|-----|----|-----|--------|-----------|-------|------|
| 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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