



# Appendix B

## GSM 850 & 1900



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1. Test Result

#### MAIN:

| Band     | Channel | Slot | Conducted Power (dBm) | ERP (dBm) | Limit(dBm) | Verdict |
|----------|---------|------|-----------------------|-----------|------------|---------|
| GSM850   | 128     | ---  | 33.33                 | 30.7      | 38.45      | PASS    |
| GSM850   | 190     | ---  | 32.68                 | 30.05     | 38.45      | PASS    |
| GSM850   | 251     | ---  | 32.58                 | 29.95     | 38.45      | PASS    |
| EGPRS850 | 128     | 1    | 26.36                 | 23.73     | 38.45      | PASS    |
| EGPRS850 | 128     | 2    | 23.43                 | 20.8      | 38.45      | PASS    |
| EGPRS850 | 128     | 3    | 22.29                 | 19.66     | 38.45      | PASS    |
| EGPRS850 | 128     | 4    | 20.96                 | 18.33     | 38.45      | PASS    |
| EGPRS850 | 190     | 1    | 25.98                 | 23.35     | 38.45      | PASS    |
| EGPRS850 | 190     | 2    | 23.65                 | 21.02     | 38.45      | PASS    |
| EGPRS850 | 190     | 3    | 21.94                 | 19.31     | 38.45      | PASS    |
| EGPRS850 | 190     | 4    | 20.59                 | 17.96     | 38.45      | PASS    |
| EGPRS850 | 251     | 1    | 25.63                 | 23        | 38.45      | PASS    |
| EGPRS850 | 251     | 2    | 23.28                 | 20.65     | 38.45      | PASS    |
| EGPRS850 | 251     | 3    | 21.71                 | 19.08     | 38.45      | PASS    |
| EGPRS850 | 251     | 4    | 21.15                 | 18.52     | 38.45      | PASS    |

| Band      | Channel | Slot | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|-----------|---------|------|-----------------------|------------|------------|---------|
| GSM1900   | 512     | ---  | 30.43                 | 31.13      | 33.00      | PASS    |
| GSM1900   | 661     | ---  | 30.59                 | 31.29      | 33.00      | PASS    |
| GSM1900   | 810     | ---  | 30.77                 | 31.47      | 33.00      | PASS    |
| EGPRS1900 | 512     | 1    | 25.56                 | 26.26      | 33.00      | PASS    |
| EGPRS1900 | 512     | 2    | 23.42                 | 24.12      | 33.00      | PASS    |
| EGPRS1900 | 512     | 3    | 21.13                 | 21.83      | 33.00      | PASS    |
| EGPRS1900 | 512     | 4    | 20.26                 | 20.96      | 33.00      | PASS    |
| EGPRS1900 | 661     | 1    | 25.76                 | 26.46      | 33.00      | PASS    |
| EGPRS1900 | 661     | 2    | 23.58                 | 24.28      | 33.00      | PASS    |
| EGPRS1900 | 661     | 3    | 21.42                 | 22.12      | 33.00      | PASS    |
| EGPRS1900 | 661     | 4    | 20.23                 | 20.93      | 33.00      | PASS    |
| EGPRS1900 | 810     | 1    | 25.83                 | 26.53      | 33.00      | PASS    |
| EGPRS1900 | 810     | 2    | 23.58                 | 24.28      | 33.00      | PASS    |
| EGPRS1900 | 810     | 3    | 21.48                 | 22.18      | 33.00      | PASS    |
| EGPRS1900 | 810     | 4    | 20.09                 | 20.79      | 33.00      | PASS    |



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**DIV:**

| Band     | Channel | Slot | Conducted Power (dBm) | ERP (dBm) | Limit(dBm) | Verdict |
|----------|---------|------|-----------------------|-----------|------------|---------|
| GSM850   | 128     | ---  | 31.76                 | 25.21     | 38.45      | PASS    |
| GSM850   | 190     | ---  | 31.86                 | 25.31     | 38.45      | PASS    |
| GSM850   | 251     | ---  | 31.85                 | 25.3      | 38.45      | PASS    |
| EGPRS850 | 128     | 1    | 26.69                 | 20.14     | 38.45      | PASS    |
| EGPRS850 | 128     | 2    | 24.02                 | 17.47     | 38.45      | PASS    |
| EGPRS850 | 128     | 3    | 22.45                 | 15.9      | 38.45      | PASS    |
| EGPRS850 | 128     | 4    | 21.43                 | 14.88     | 38.45      | PASS    |
| EGPRS850 | 190     | 1    | 26.89                 | 20.34     | 38.45      | PASS    |
| EGPRS850 | 190     | 2    | 24.02                 | 17.47     | 38.45      | PASS    |
| EGPRS850 | 190     | 3    | 22.43                 | 15.88     | 38.45      | PASS    |
| EGPRS850 | 190     | 4    | 21.41                 | 14.86     | 38.45      | PASS    |
| EGPRS850 | 251     | 1    | 26.85                 | 20.3      | 38.45      | PASS    |
| EGPRS850 | 251     | 2    | 24.23                 | 17.68     | 38.45      | PASS    |
| EGPRS850 | 251     | 3    | 22.51                 | 15.96     | 38.45      | PASS    |
| EGPRS850 | 251     | 4    | 21.41                 | 14.86     | 38.45      | PASS    |

| Band      | Channel | Slot | Conducted Power (dBm) | EIRP (dBm) | Limit(dBm) | Verdict |
|-----------|---------|------|-----------------------|------------|------------|---------|
| GSM1900   | 512     | ---  | 28.73                 | 28.53      | 33.00      | PASS    |
| GSM1900   | 661     | ---  | 28.61                 | 28.41      | 33.00      | PASS    |
| GSM1900   | 810     | ---  | 28.45                 | 28.25      | 33.00      | PASS    |
| EGPRS1900 | 512     | 1    | 25.64                 | 25.44      | 33.00      | PASS    |
| EGPRS1900 | 512     | 2    | 23.56                 | 23.36      | 33.00      | PASS    |
| EGPRS1900 | 512     | 3    | 21.33                 | 21.13      | 33.00      | PASS    |
| EGPRS1900 | 512     | 4    | 20.28                 | 20.08      | 33.00      | PASS    |
| EGPRS1900 | 661     | 1    | 25.75                 | 25.55      | 33.00      | PASS    |
| EGPRS1900 | 661     | 2    | 23.54                 | 23.34      | 33.00      | PASS    |
| EGPRS1900 | 661     | 3    | 21.18                 | 20.98      | 33.00      | PASS    |
| EGPRS1900 | 661     | 4    | 20.49                 | 20.29      | 33.00      | PASS    |
| EGPRS1900 | 810     | 1    | 25.65                 | 25.45      | 33.00      | PASS    |
| EGPRS1900 | 810     | 2    | 23.61                 | 23.41      | 33.00      | PASS    |
| EGPRS1900 | 810     | 3    | 21.38                 | 21.18      | 33.00      | PASS    |
| EGPRS1900 | 810     | 4    | 20.07                 | 19.87      | 33.00      | PASS    |

Remark:

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

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

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



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## 2. Peak-to-Average Ratio

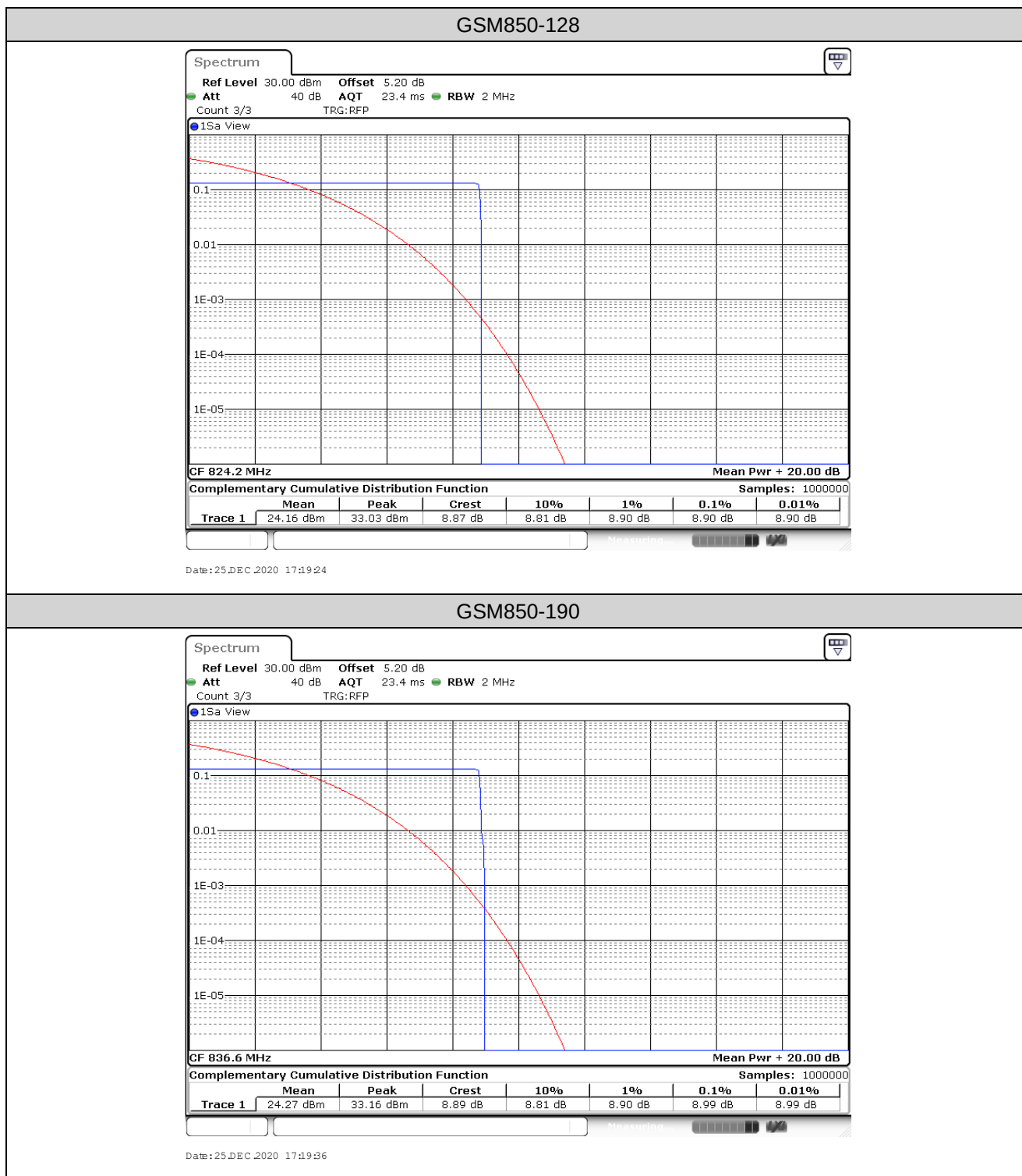
### 2.1. Test Result

| Band      | Channel | Result(dB) | Limit(dB) | Verdict |
|-----------|---------|------------|-----------|---------|
| GSM850    | 128     | 8.9        | 13        | PASS    |
| GSM850    | 190     | 8.99       | 13        | PASS    |
| GSM850    | 251     | 8.9        | 13        | PASS    |
| EGPRS850  | 128     | 12.12      | 13        | PASS    |
| EGPRS850  | 190     | 11.97      | 13        | PASS    |
| EGPRS850  | 251     | 11.88      | 13        | PASS    |
| GSM1900   | 512     | 8.9        | 13        | PASS    |
| GSM1900   | 661     | 8.93       | 13        | PASS    |
| GSM1900   | 810     | 8.96       | 13        | PASS    |
| EGPRS1900 | 512     | 12.72      | 13        | PASS    |
| EGPRS1900 | 661     | 11.97      | 13        | PASS    |
| EGPRS1900 | 810     | 12         | 13        | PASS    |

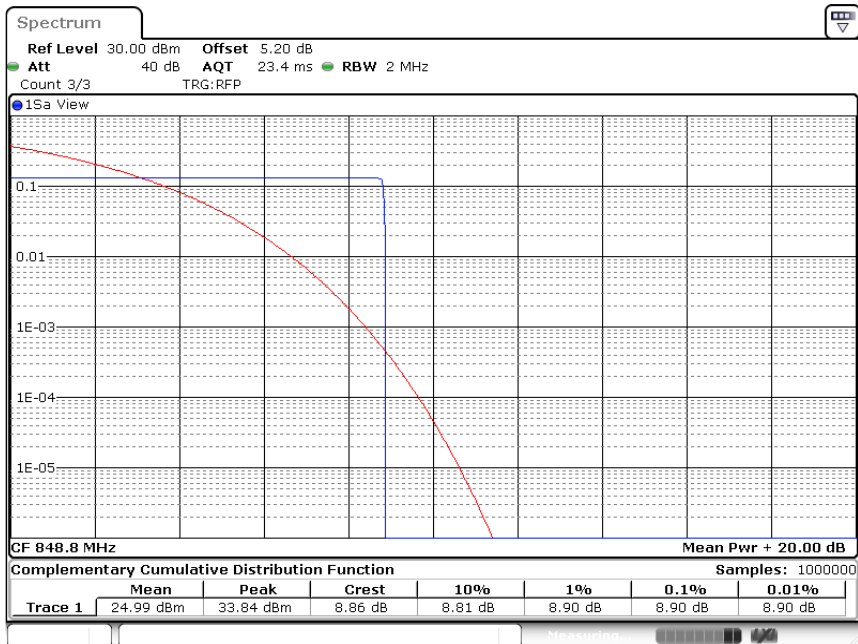




## 2.2.Part II - Test Plots

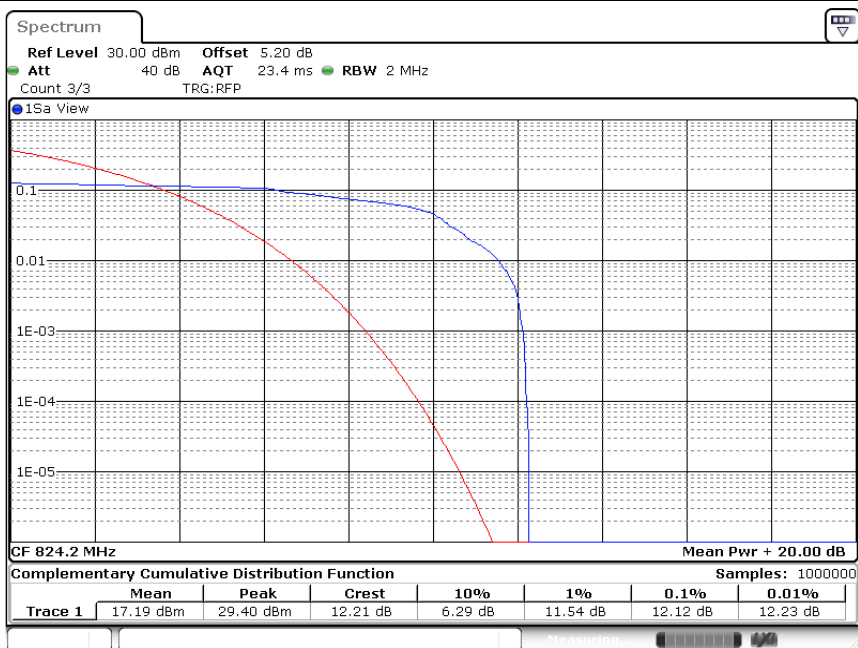


## GSM850-251



Date: 25 DEC 2020 17:19:47

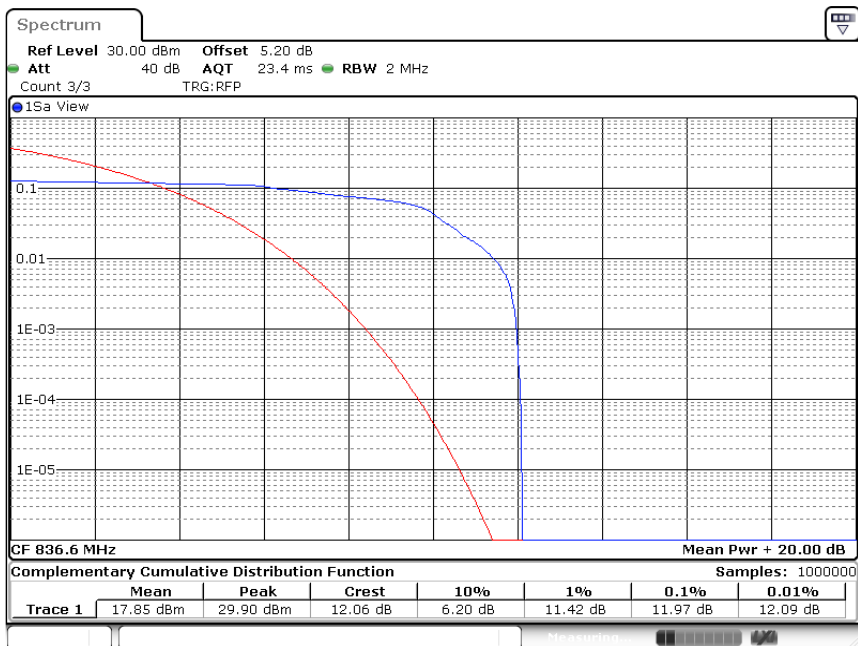
## EGPRS850-128



Date: 25 DEC 2020 17:25:55

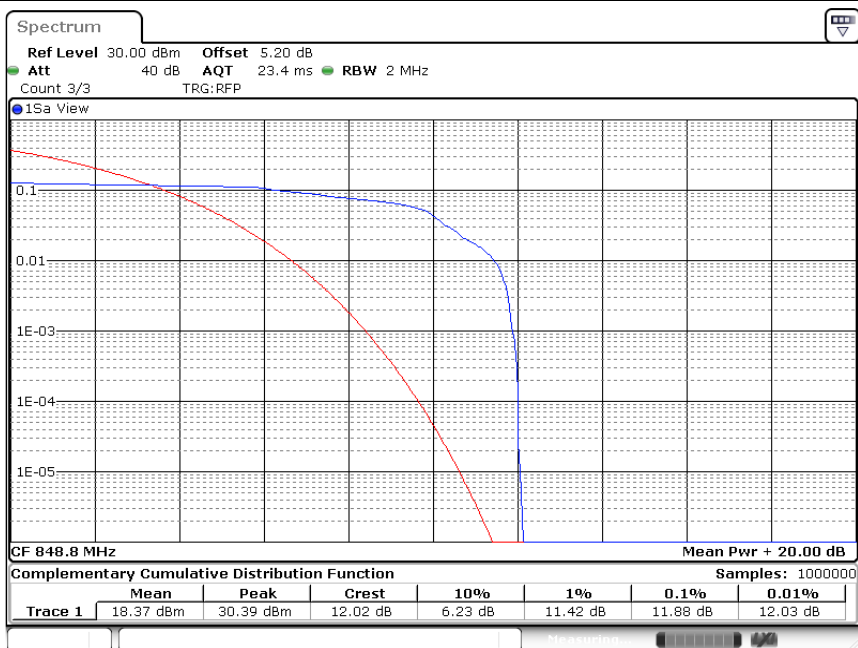


## EGPRS850-190



Date: 25 DEC 2020 17:26:08

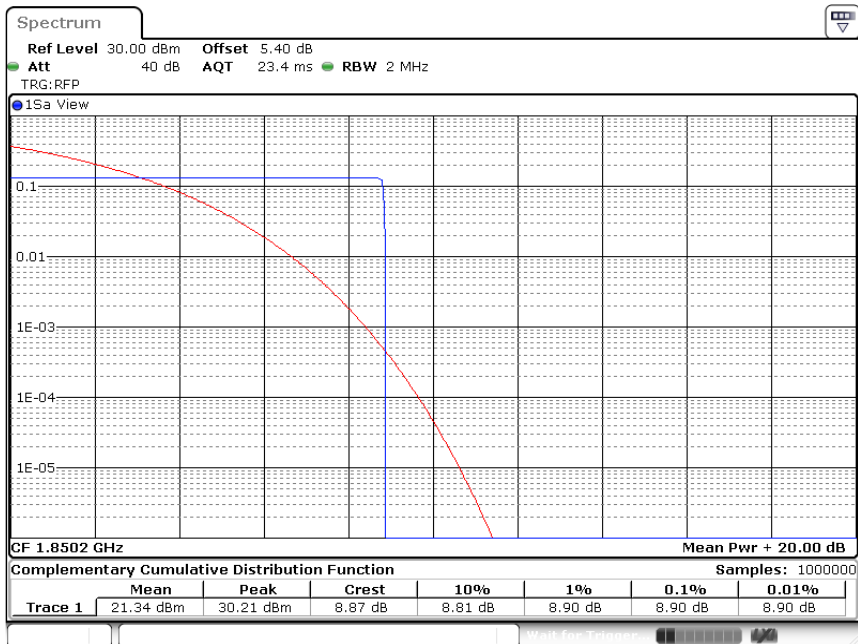
## EGPRS850-251



Date: 25 DEC 2020 17:26:20

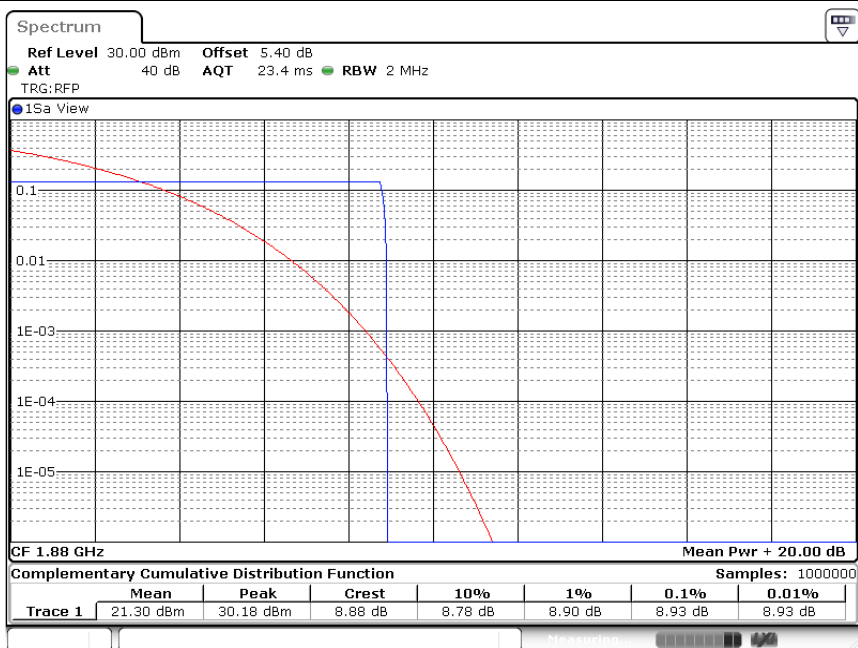


## GSM1900-512



Date: 25 DEC 2020 17:05:50

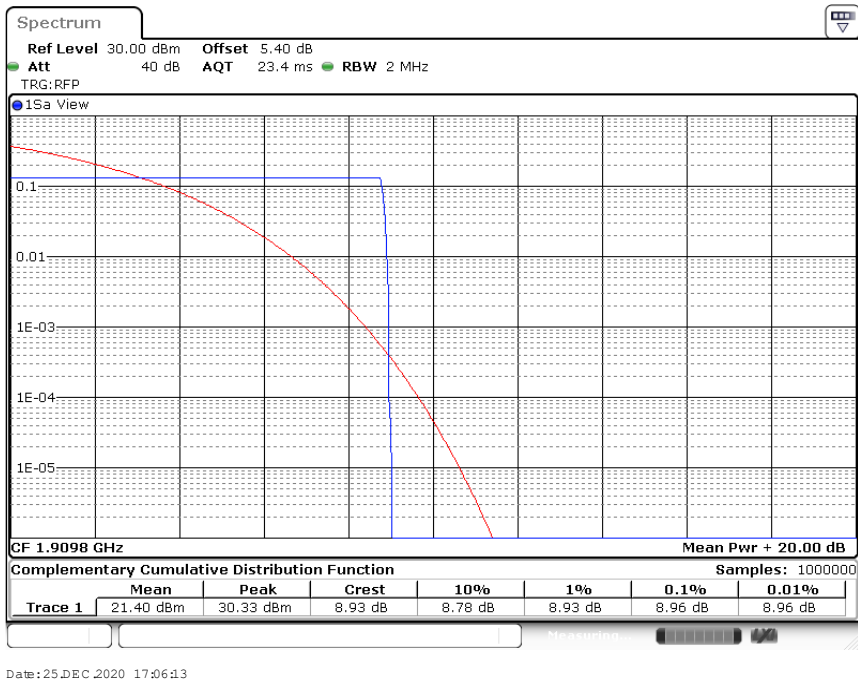
## GSM1900-661



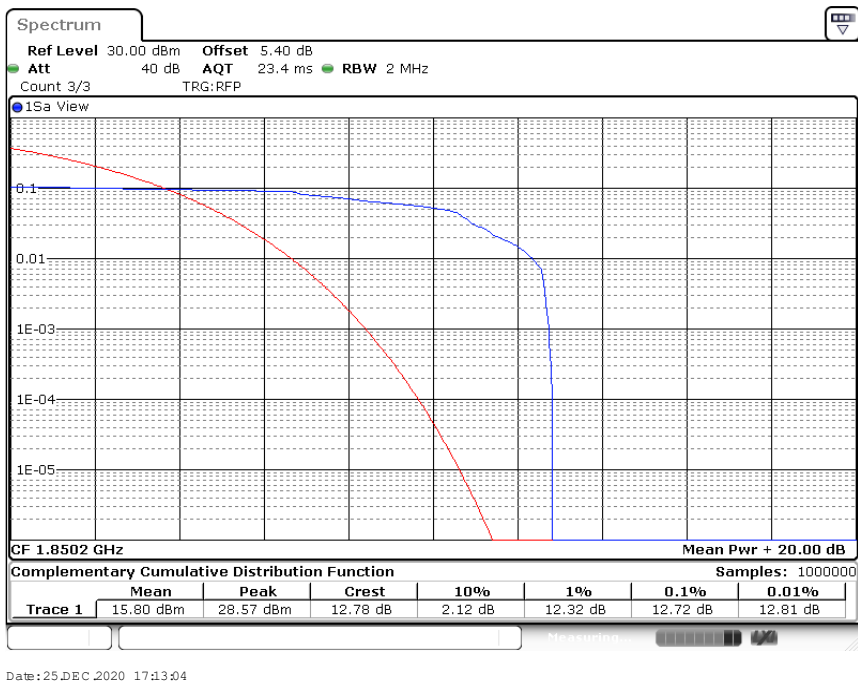
Date: 25 DEC 2020 17:06:01



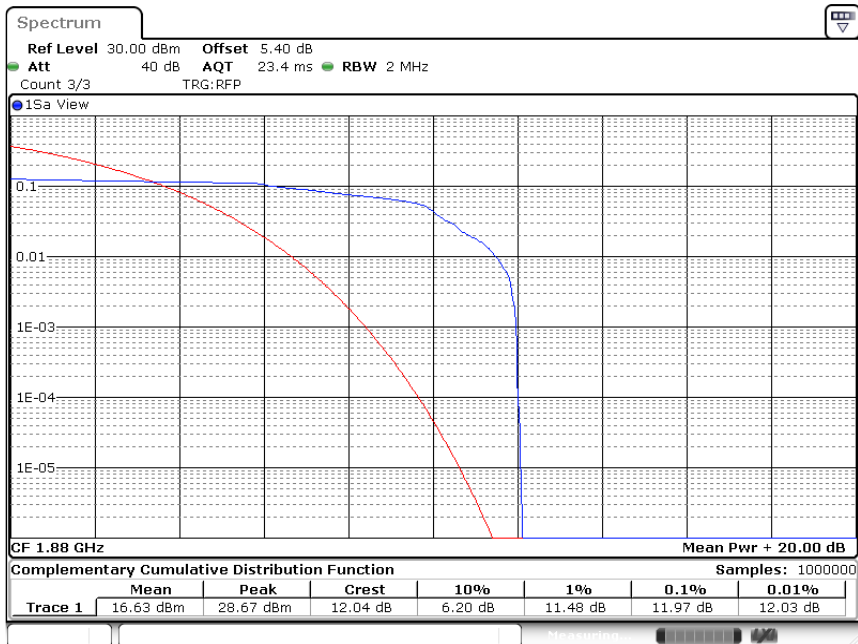
## GSM1900-810



## EGPRS1900-512

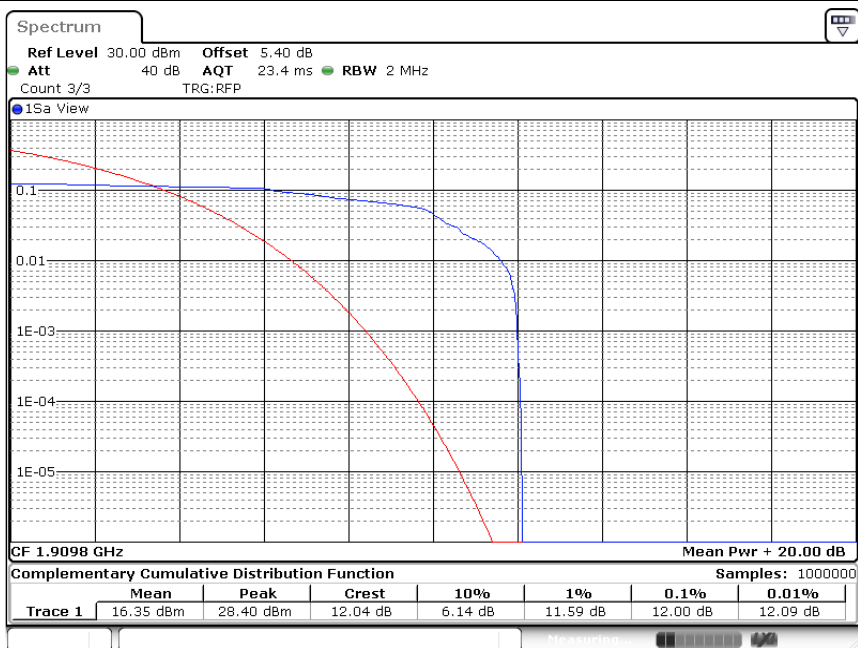


## EGPRS1900-661



Date: 25 DEC 2020 17:13:17

## EGPRS1900-810



Date: 25 DEC 2020 17:13:29



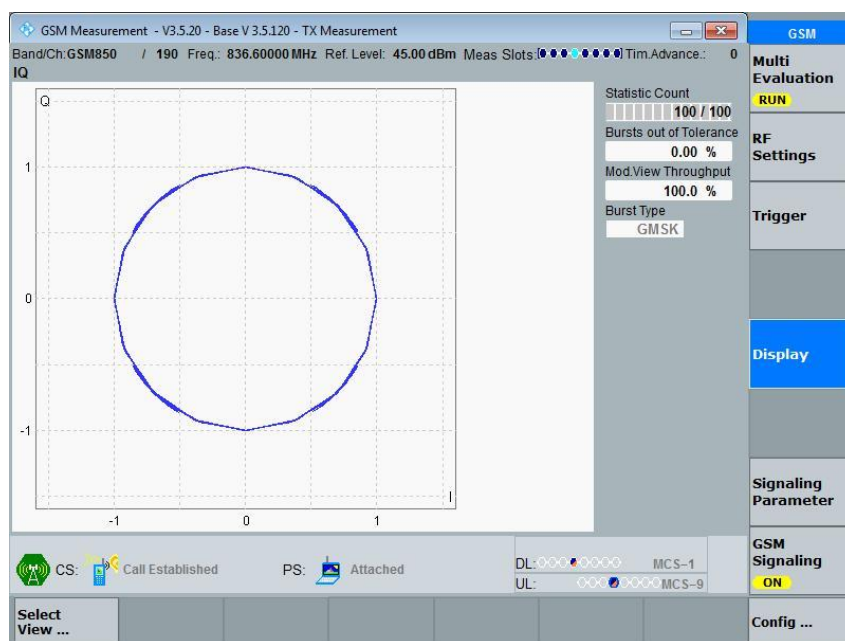
### 3. Modulation Characteristics

#### 3.1. For GSM

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

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

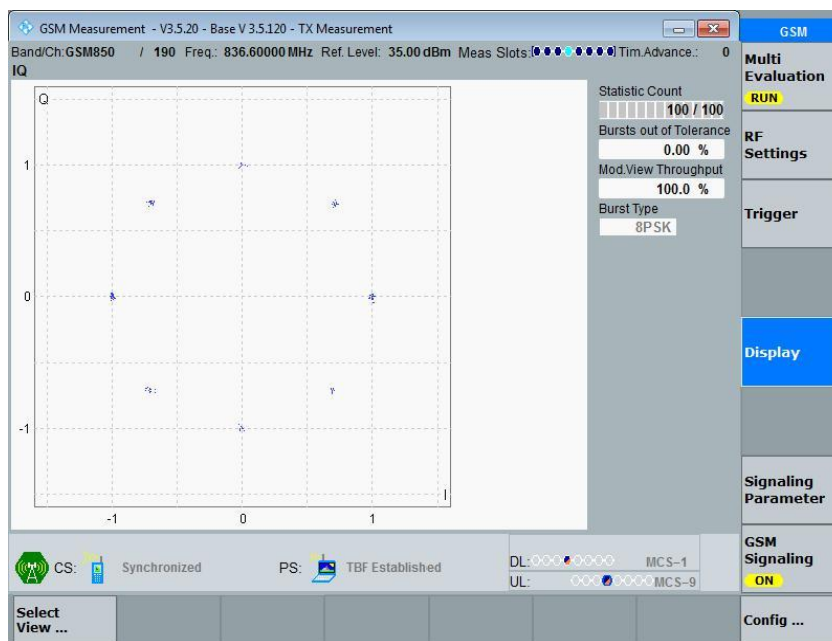
##### 3.1.1.1.1. Test Channel = MCH





### 3.1.1.2. Test Mode = GSM/TM2

#### 3.1.1.2.1. Test Channel = MCH

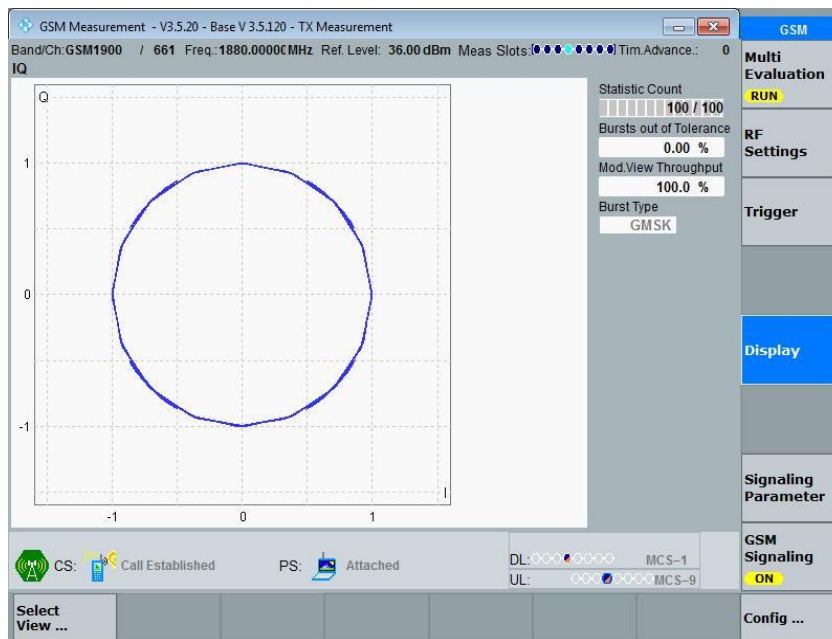




### 3.1.2. Test Band = GSM 1900

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

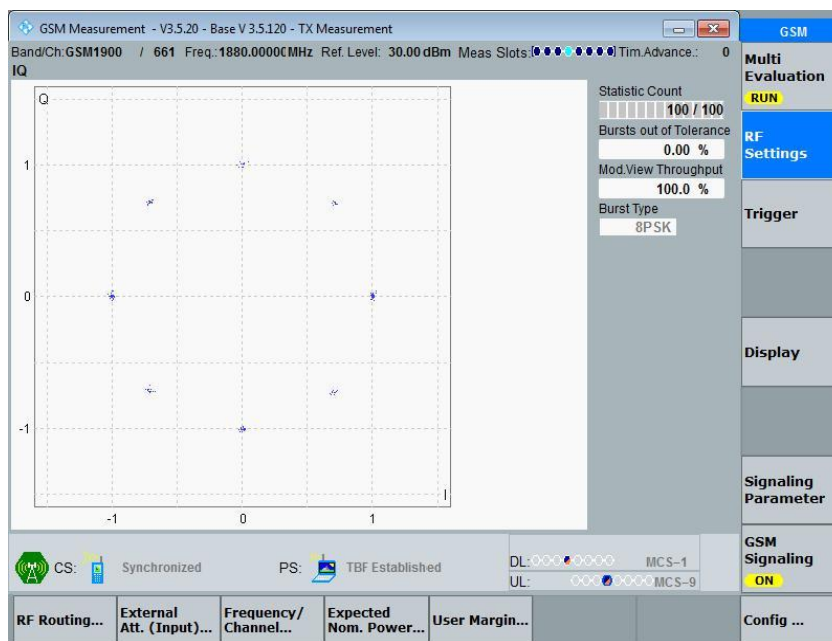
##### 3.1.2.1.1. Test Channel = MCH





### 3.1.2.2. Test Mode = GSM/TM2

#### 3.1.2.2.1. Test Channel = MCH



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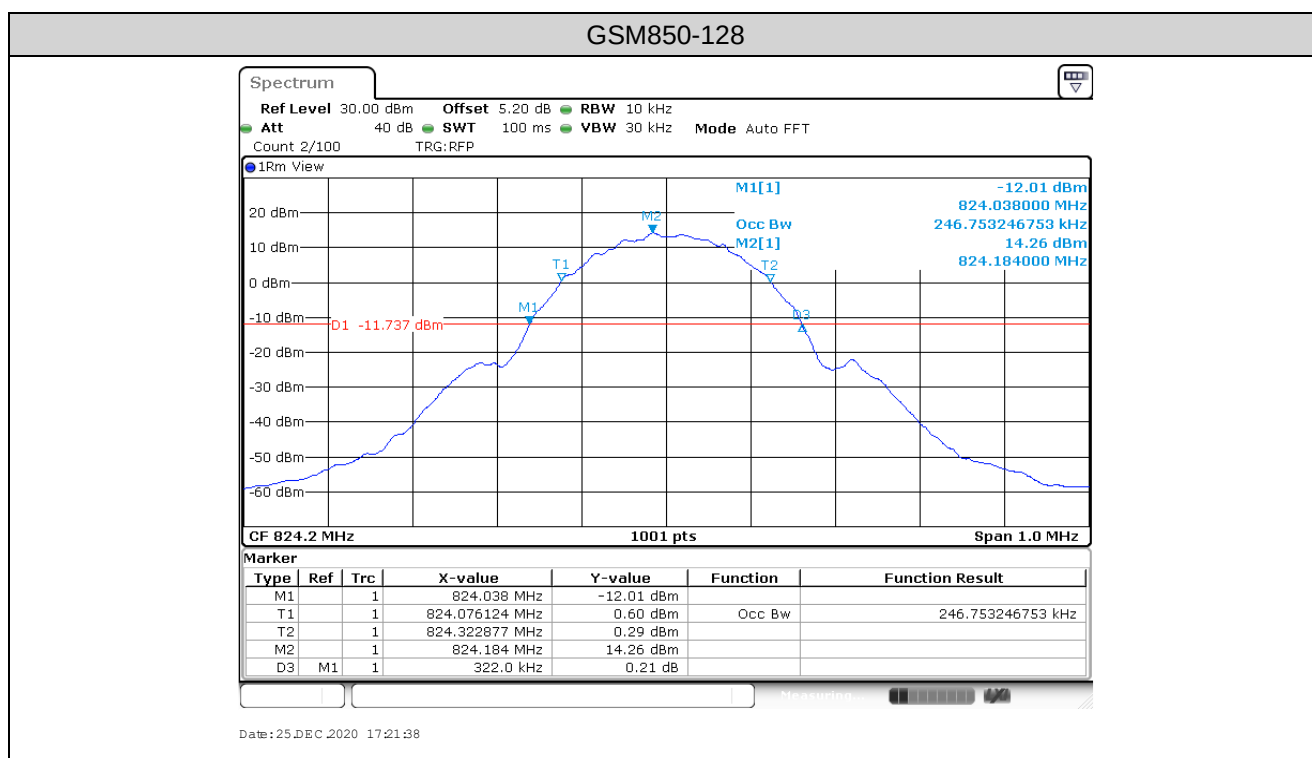


## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

| Band      | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
|-----------|---------|--------------------------|----------------------|-------------|---------|
| GSM850    | 128     | 0.247                    | 0.322                | ---         | PASS    |
| GSM850    | 190     | 0.247                    | 0.323                | ---         | PASS    |
| GSM850    | 251     | 0.247                    | 0.324                | ---         | PASS    |
| EGPRS850  | 128     | 0.247                    | 0.316                | ---         | PASS    |
| EGPRS850  | 190     | 0.245                    | 0.316                | ---         | PASS    |
| EGPRS850  | 251     | 0.246                    | 0.316                | ---         | PASS    |
| GSM1900   | 512     | 0.247                    | 0.323                | ---         | PASS    |
| GSM1900   | 661     | 0.247                    | 0.322                | ---         | PASS    |
| GSM1900   | 810     | 0.247                    | 0.322                | ---         | PASS    |
| EGPRS1900 | 512     | 0.243                    | 0.316                | ---         | PASS    |
| EGPRS1900 | 661     | 0.243                    | 0.317                | ---         | PASS    |
| EGPRS1900 | 810     | 0.243                    | 0.316                | ---         | PASS    |

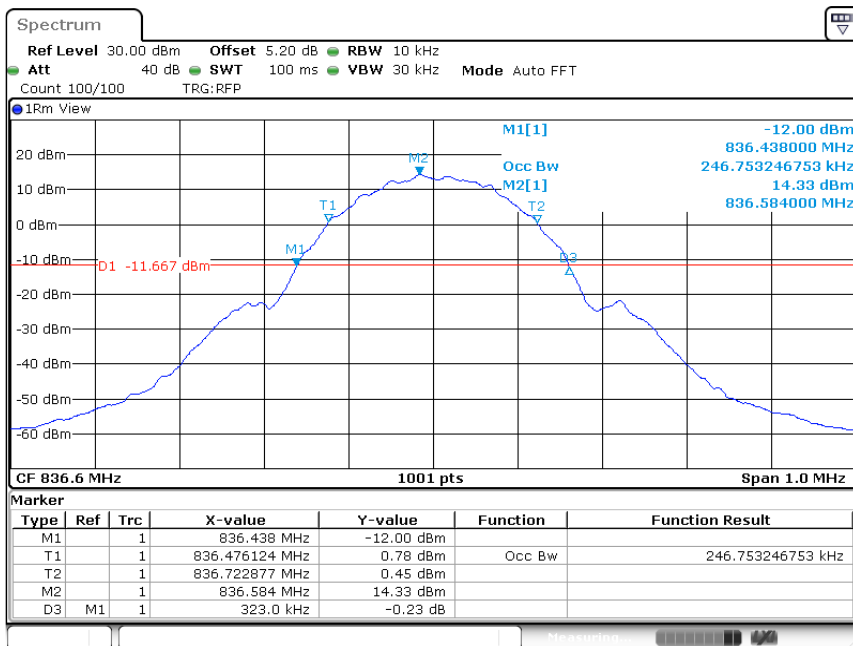
### 4.2. Test Plots



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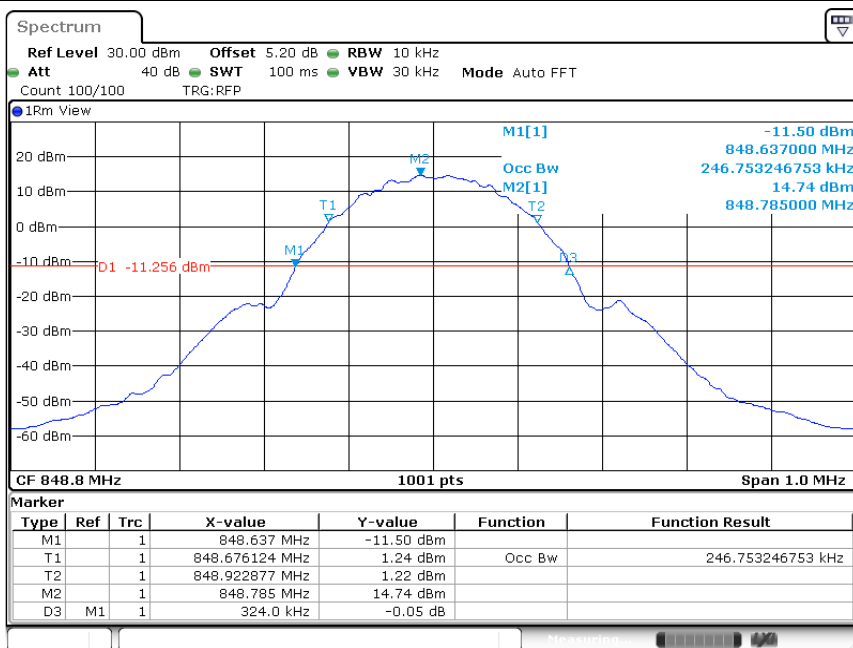
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## GSM850-190



Date: 25 DEC 2020 17:21:59

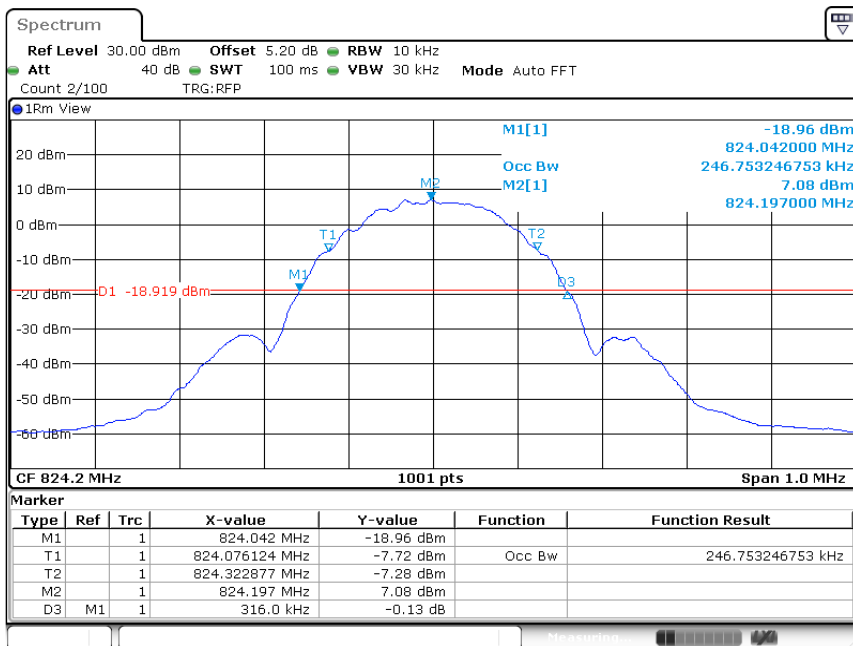
## GSM850-251



Date: 25 DEC 2020 17:22:20

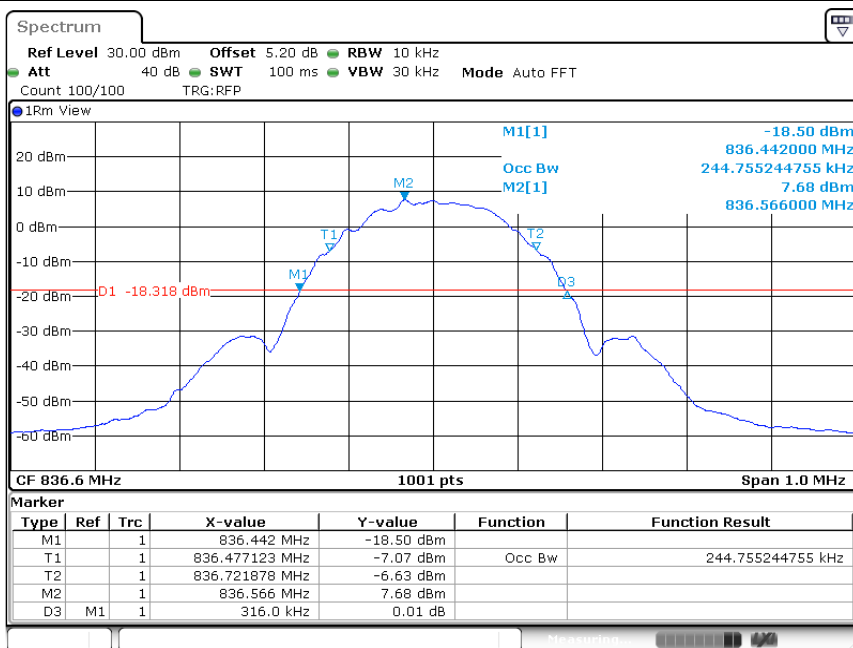


## EGPRS850-128



Date: 25 DEC 2020 17:28:15

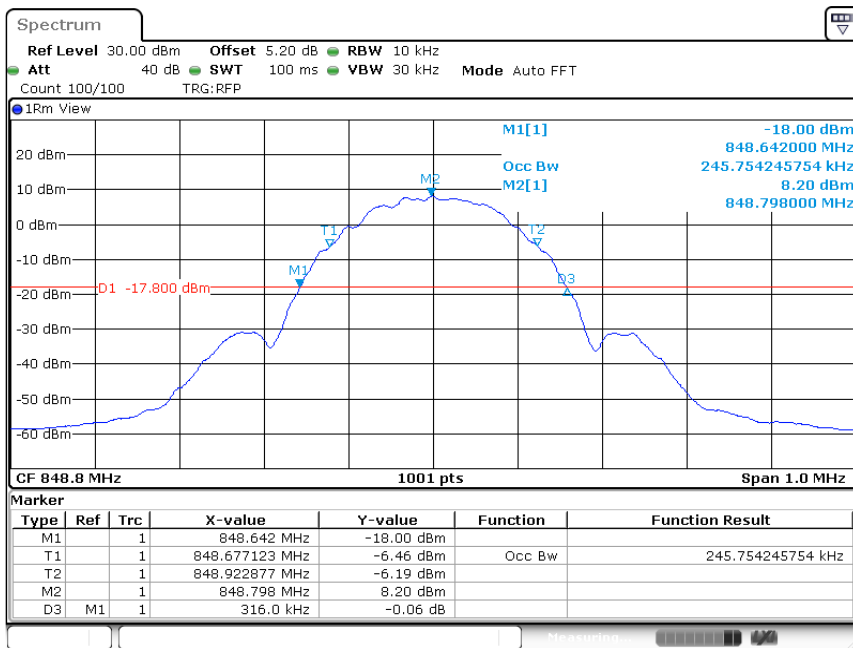
## EGPRS850-190



Date: 25 DEC 2020 17:28:37

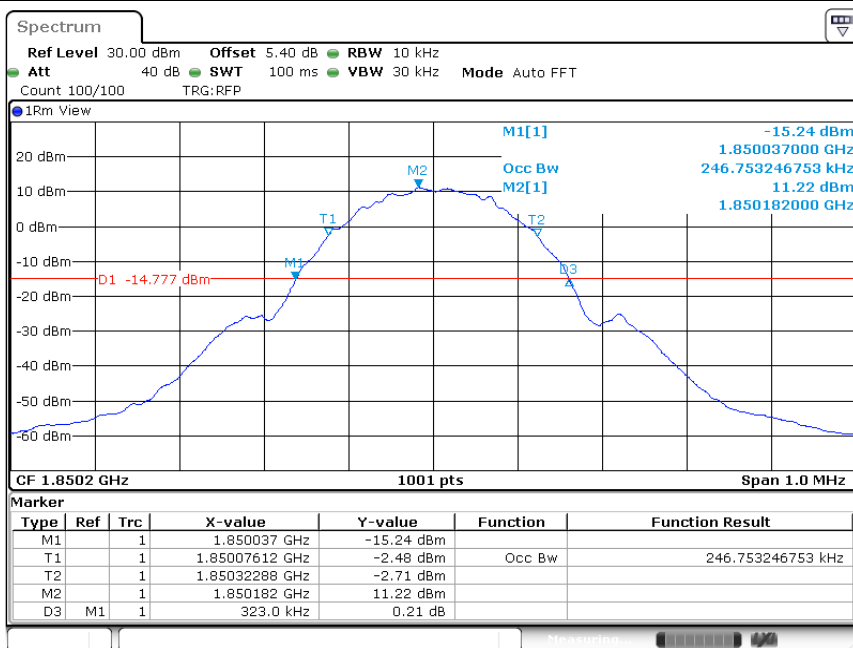


## EGPRS850-251



Date: 25 DEC 2020 17:28:58

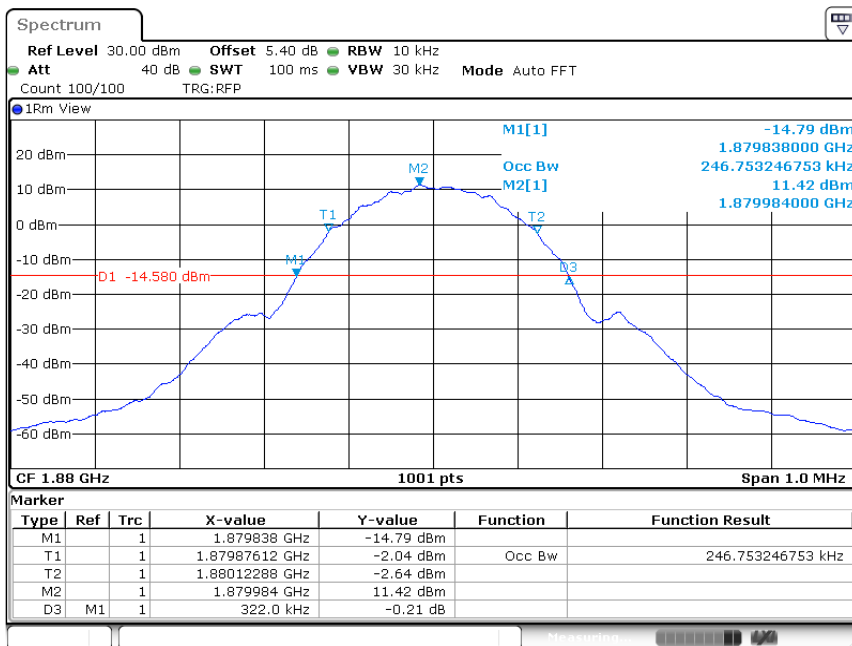
## GSM1900-512



Date: 25 DEC 2020 17:07:46

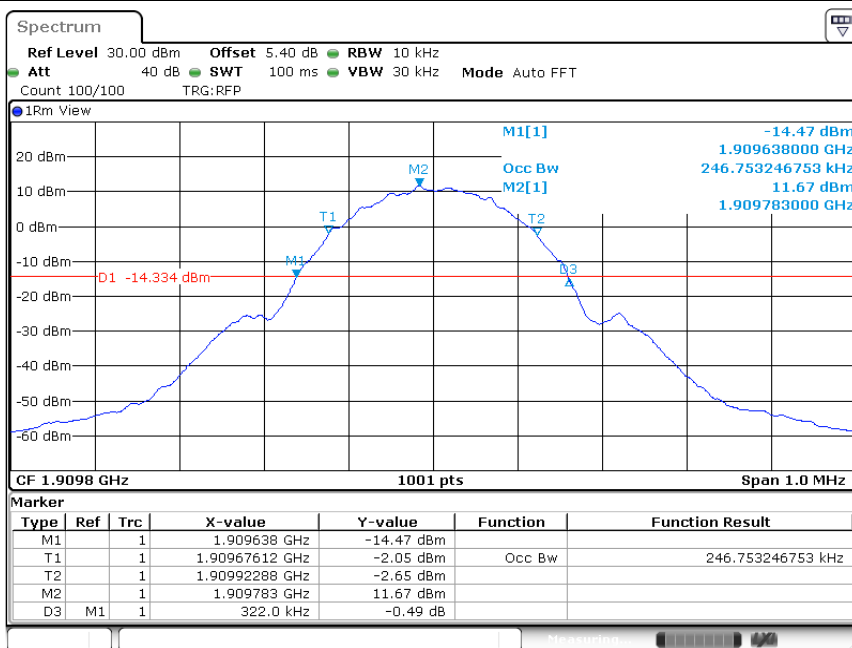


## GSM1900-661



Date: 25 DEC 2020 17:08:06

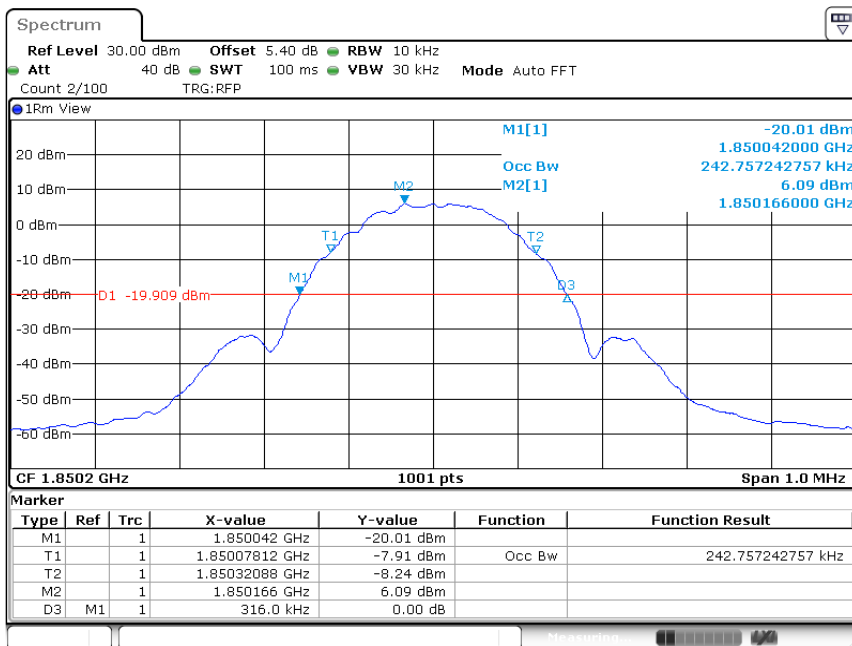
## GSM1900-810



Date: 25 DEC 2020 17:08:27

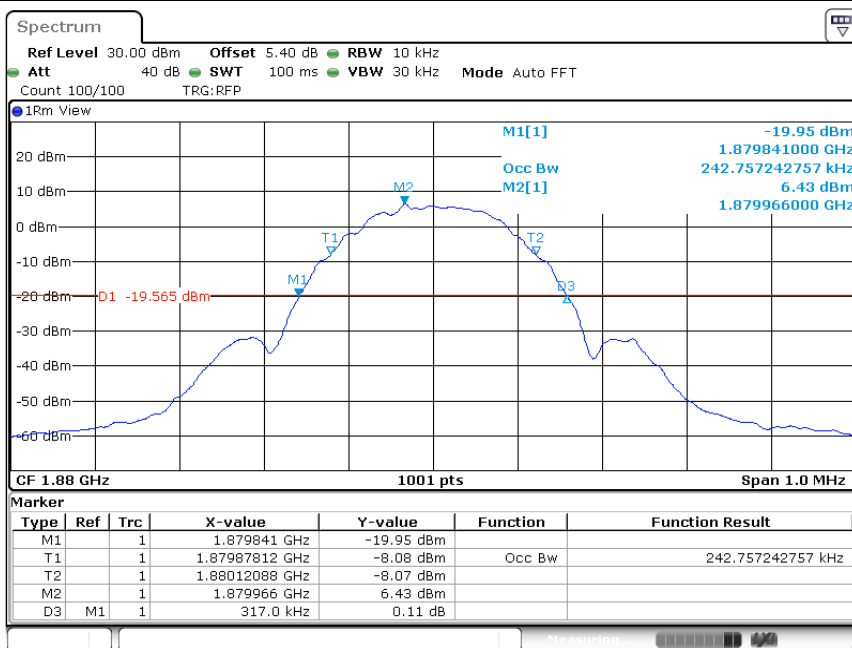


## EGPRS1900-512



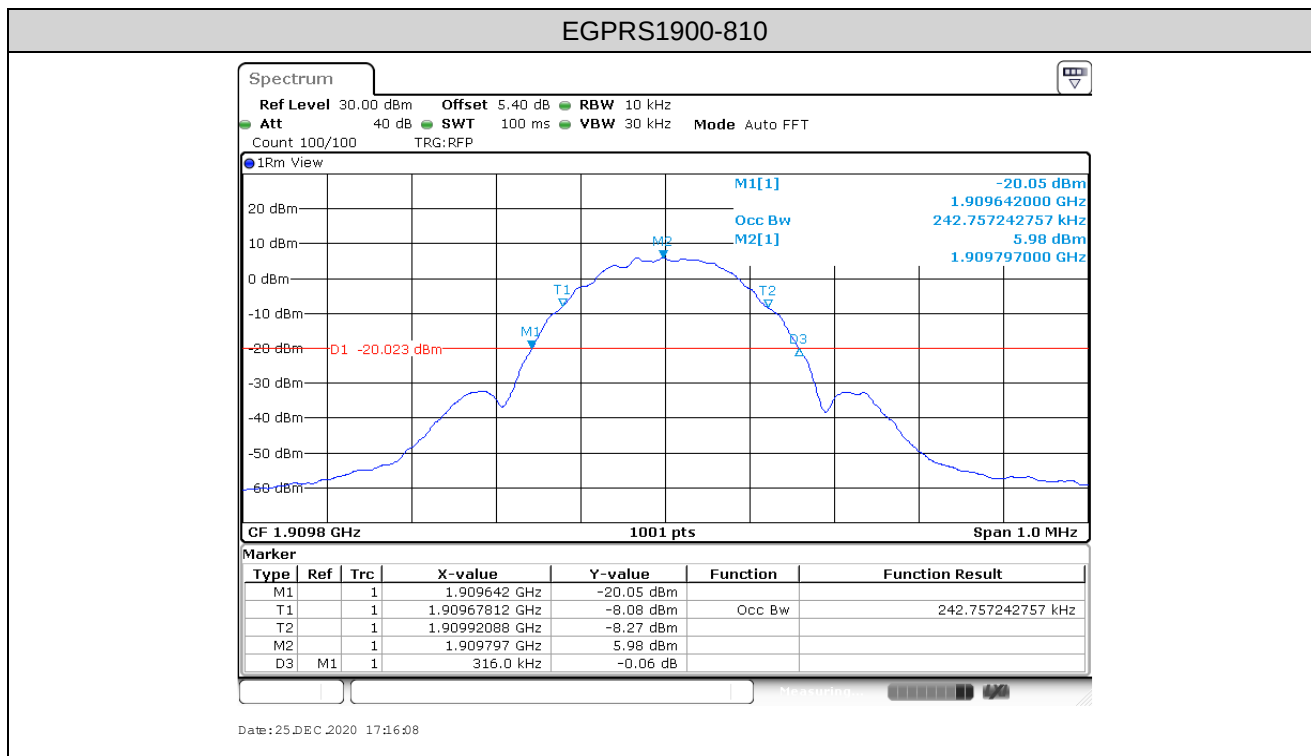
Date: 25 DEC 2020 17:15:24

## EGPRS1900-661



Date: 25 DEC 2020 17:15:46

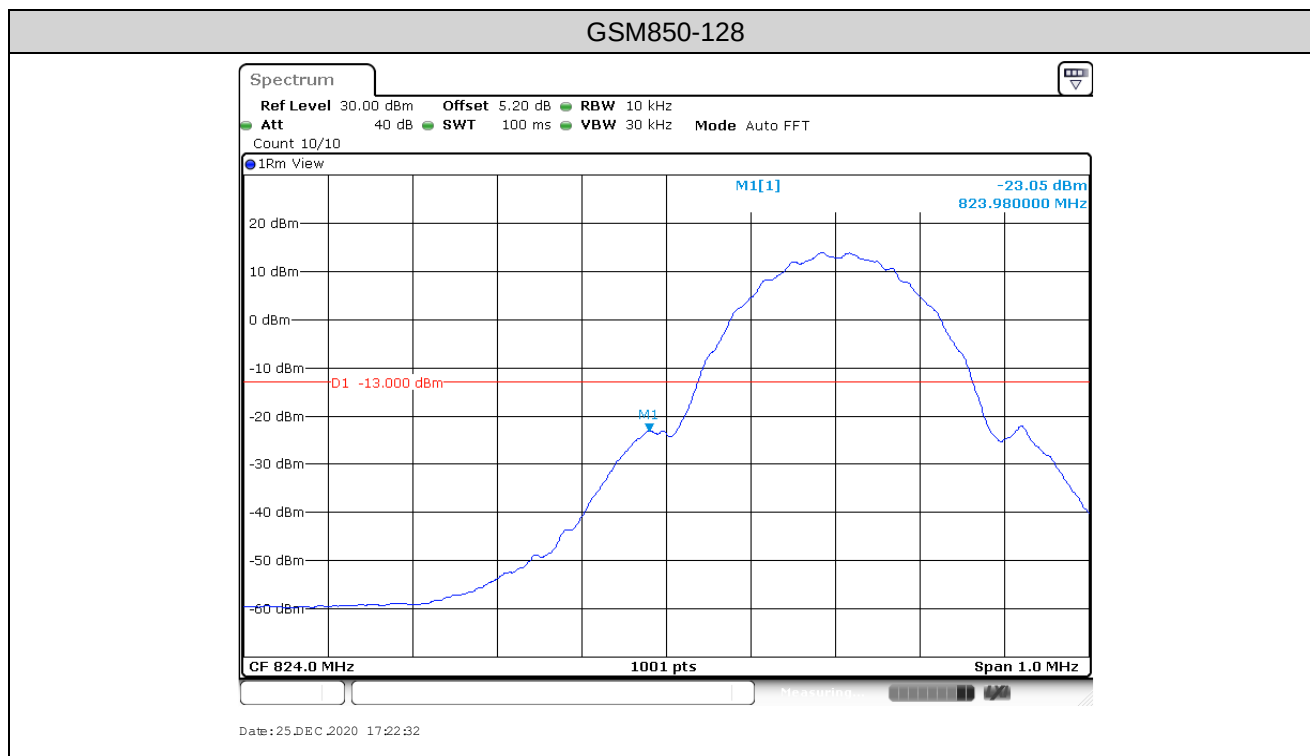




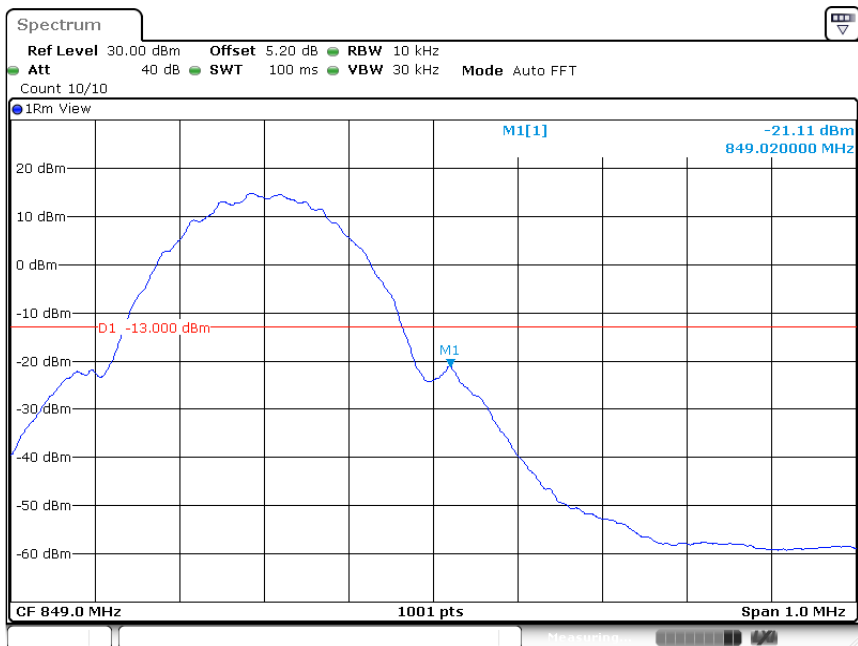


## 5. Band Edge Compliance

### 5.1. Test Plots



## GSM850-251



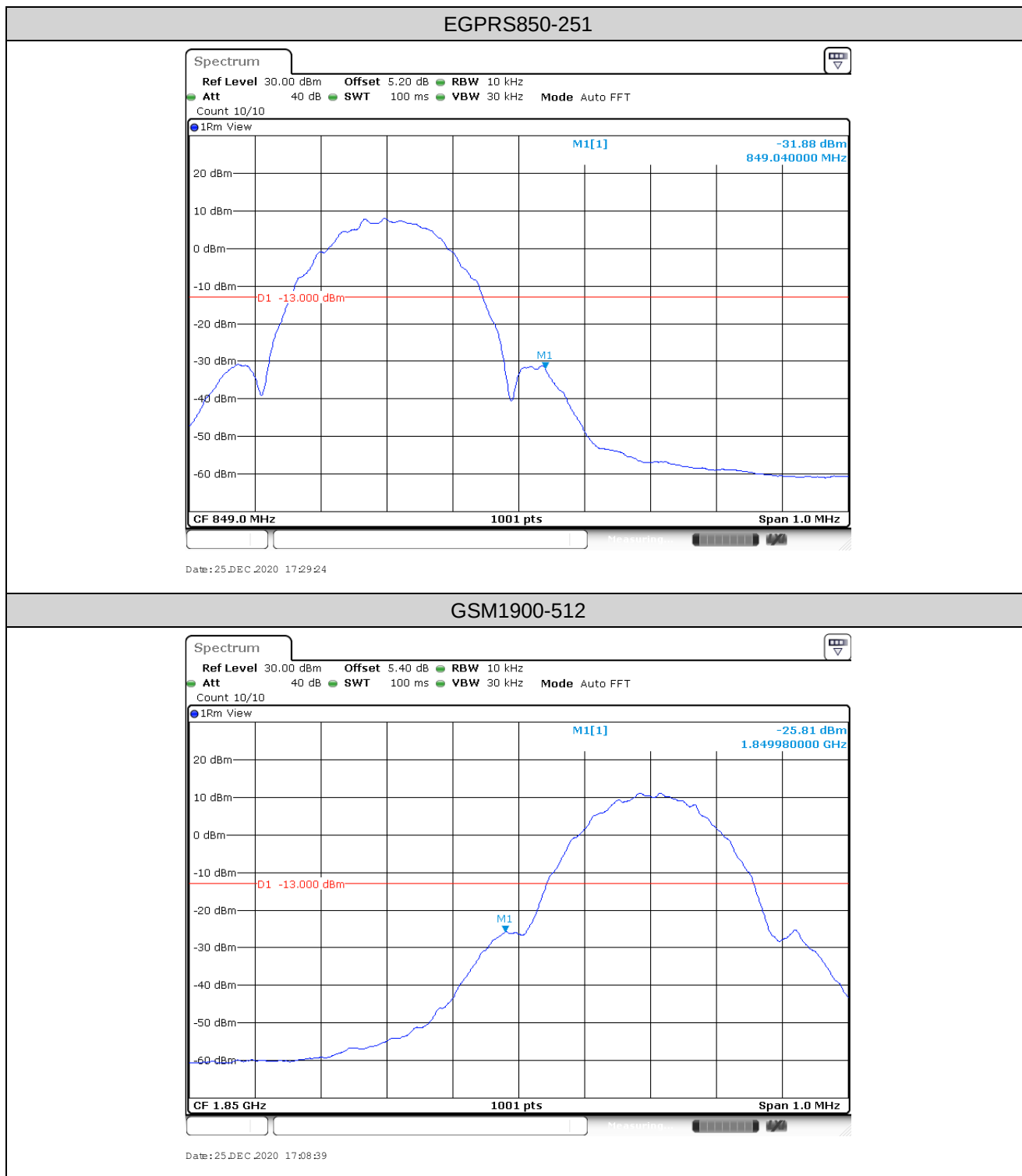
Date: 25 DEC 2020 17:22:44

## EGPRS850-128



Date: 25 DEC 2020 17:29:11





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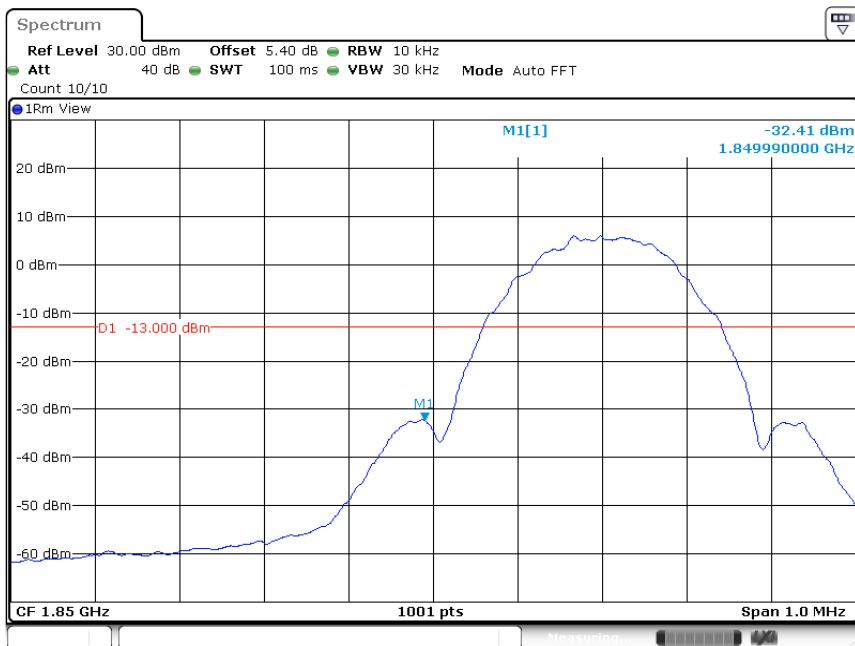
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## GSM1900-810



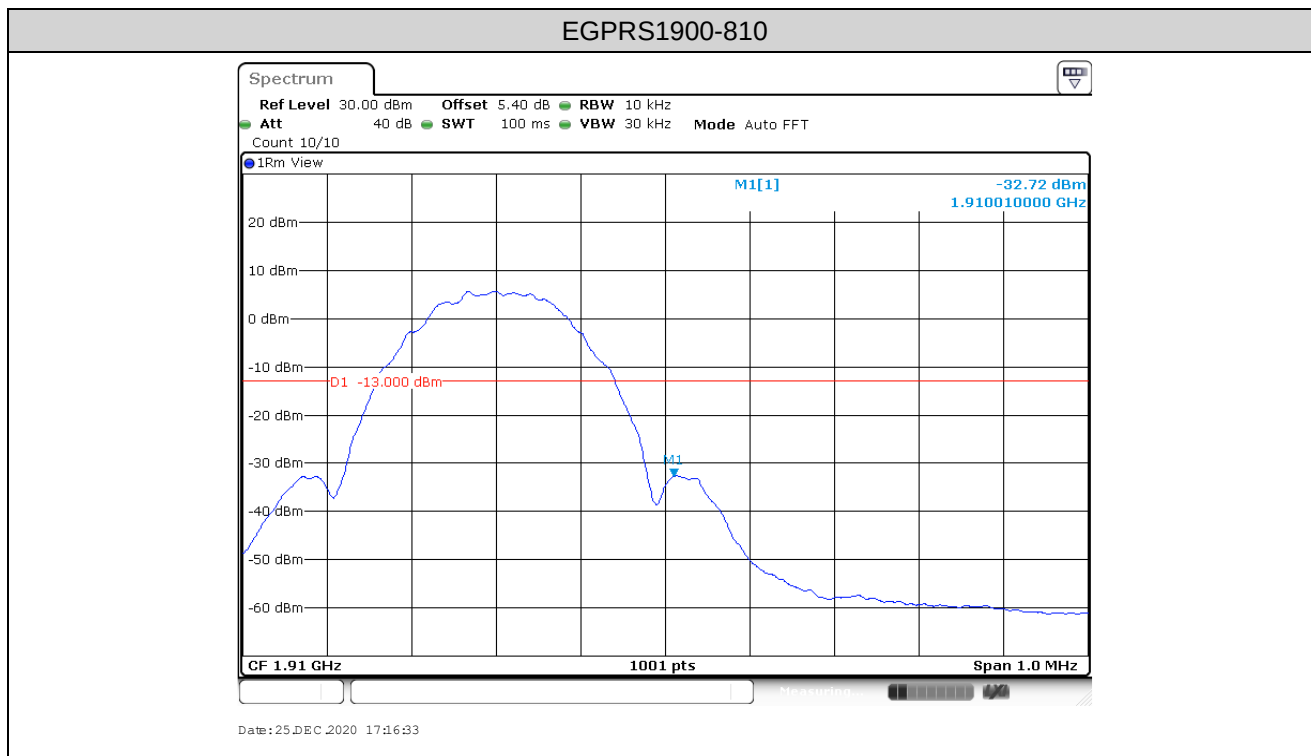
Date: 25 DEC 2020 17:08:51

## EGPRS1900-512



Date: 25 DEC 2020 17:16:21





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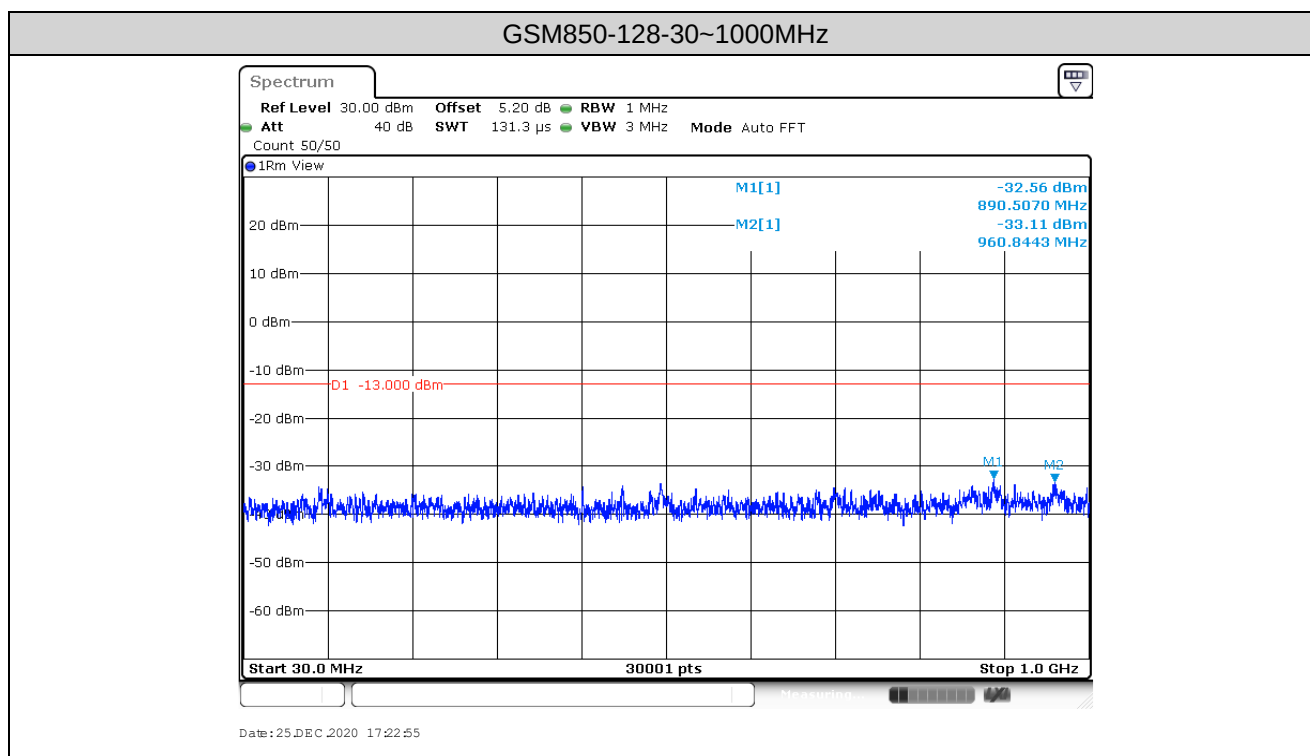


## 6. Spurious Emission at Antenna Terminal

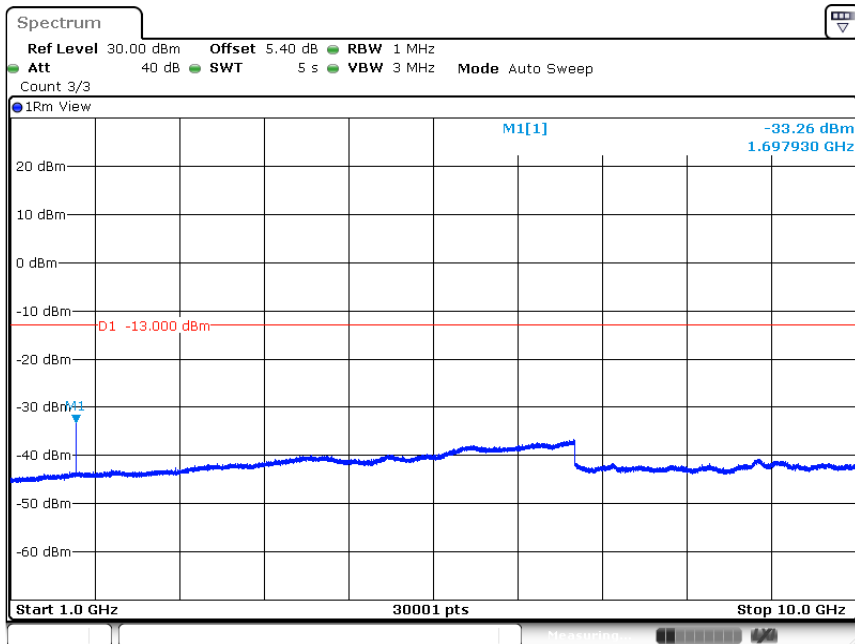
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / RBW)$ " 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

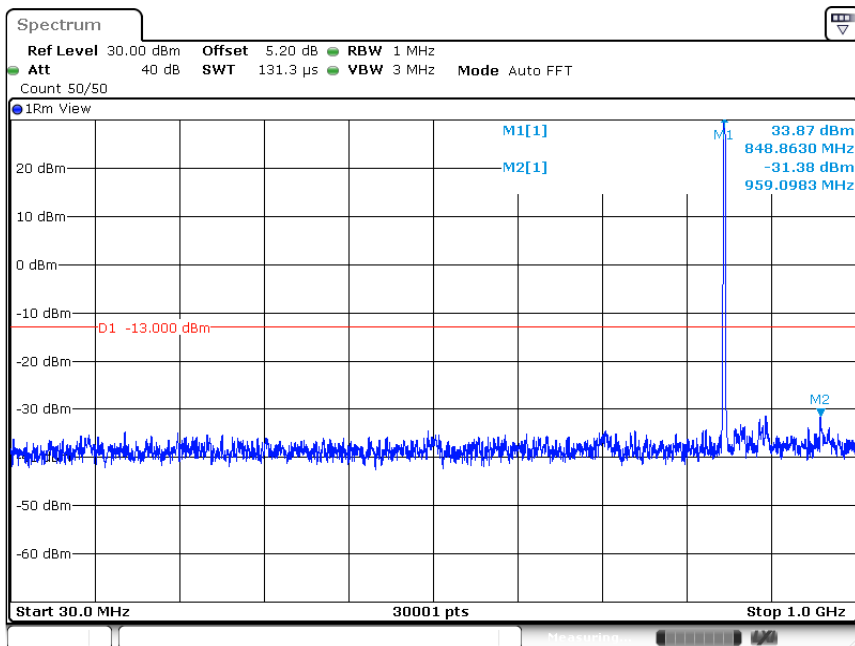


**GSM850-128-1000~10000MHz**



Date: 25 DEC 2020 17:23:20

**GSM850-190-30~1000MHz**



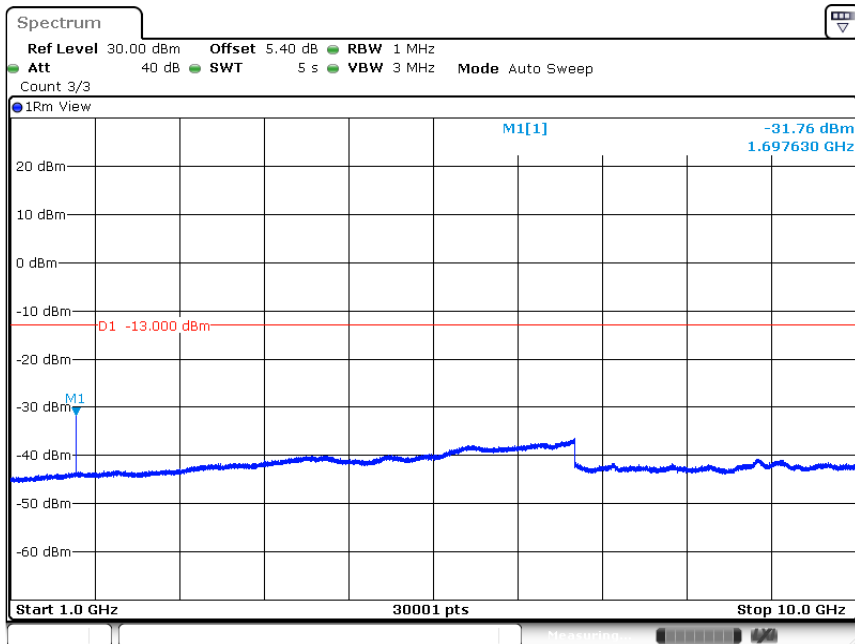
Date: 25 DEC 2020 17:23:31



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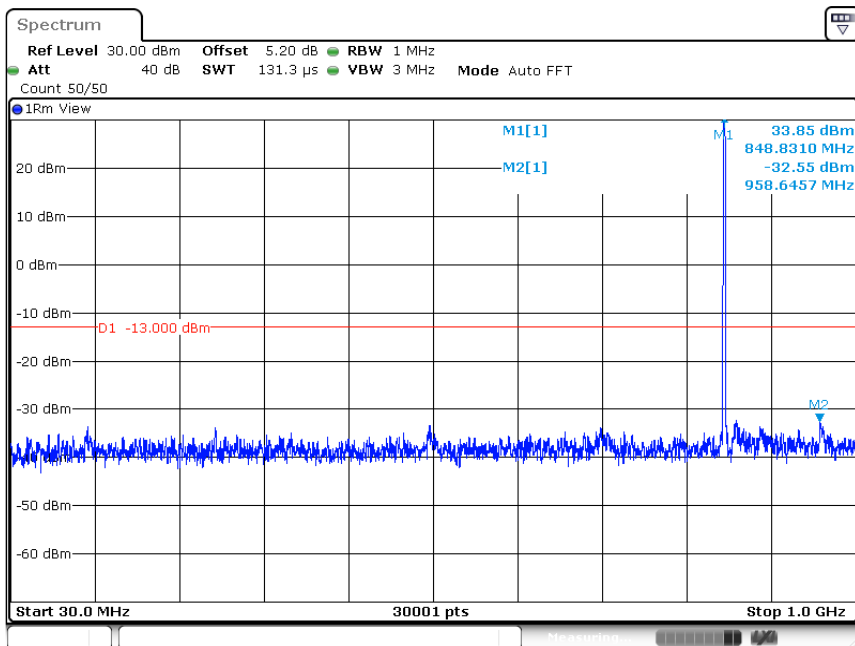
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GSM850-190-1000~10000MHz



Date: 25 DEC 2020 17:23:55

GSM850-251-30~1000MHz



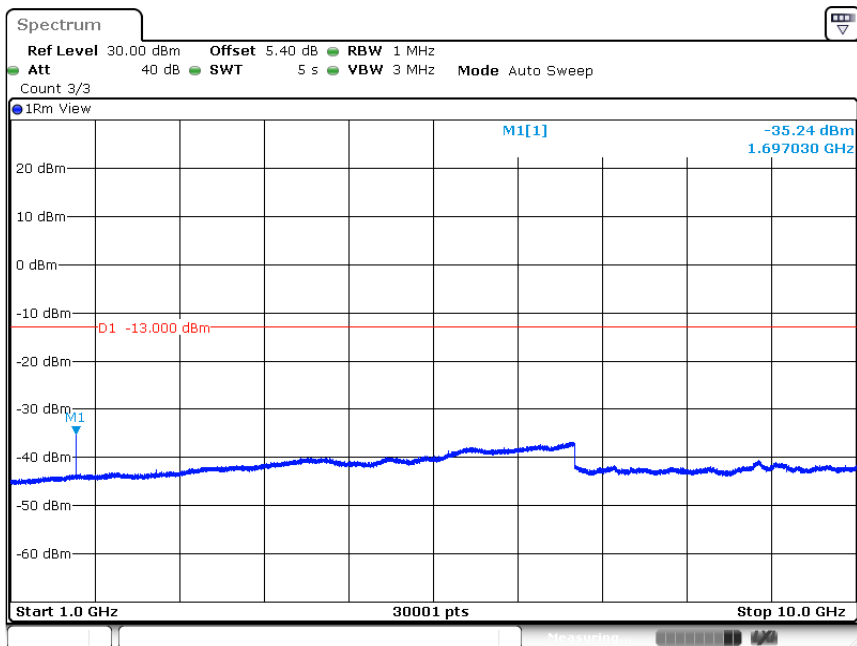
Date: 25 DEC 2020 17:24:07



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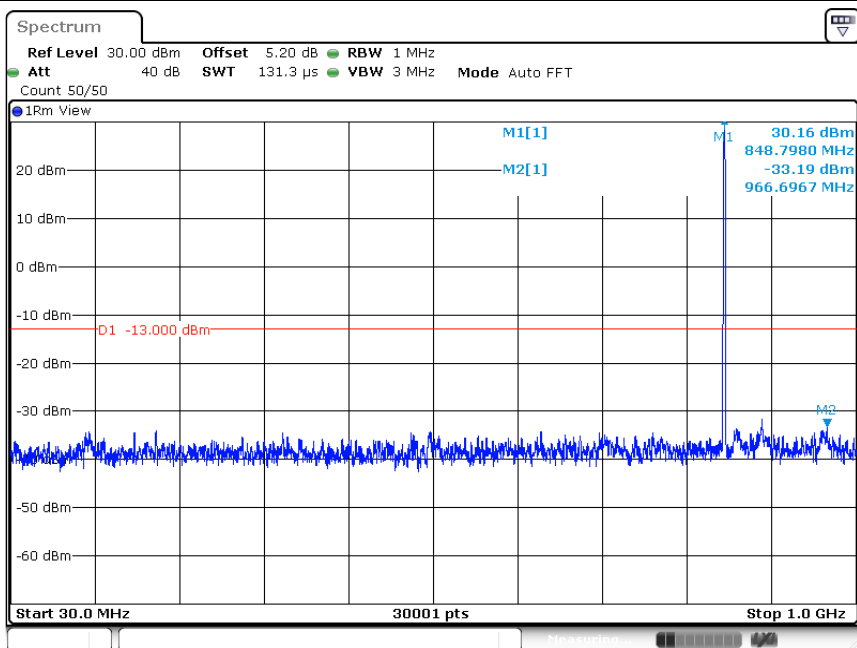
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## GSM850-251-1000~10000MHz



Date: 25 DEC 2020 17:24:31

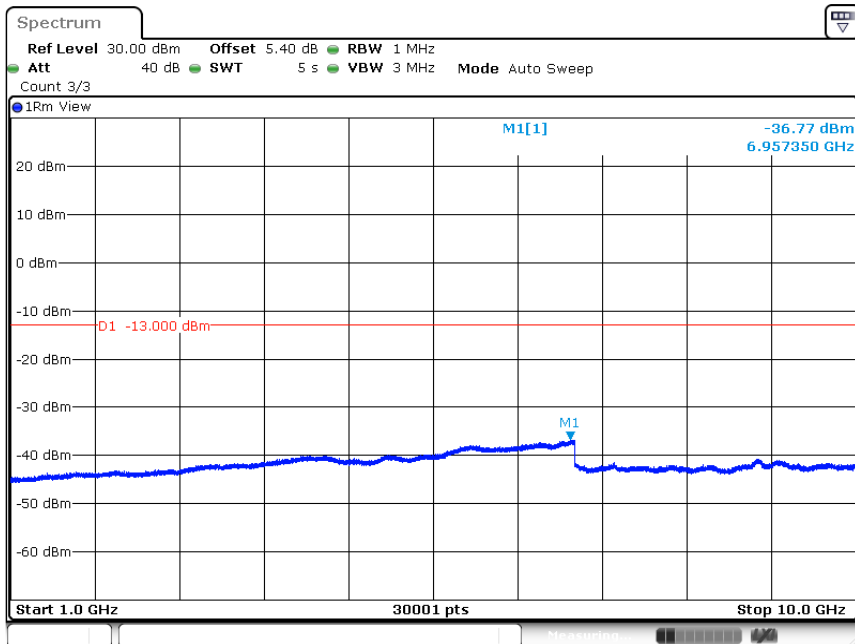
## EGPRS850-128-30~1000MHz



Date: 25 DEC 2020 17:29:37

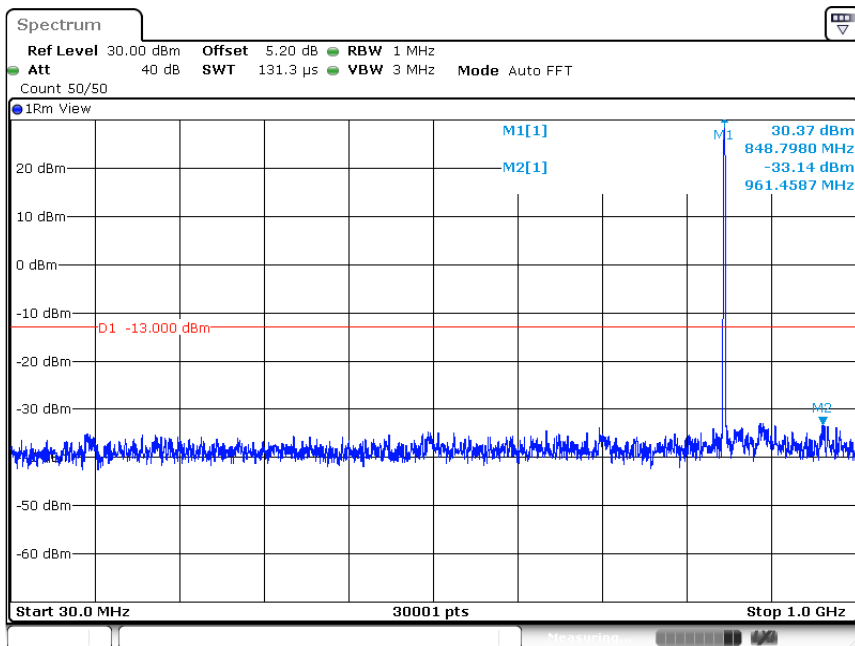


**EGPRS850-128-1000~10000MHz**



Date: 25 DEC 2020 17:30:01

**EGPRS850-190-30~1000MHz**



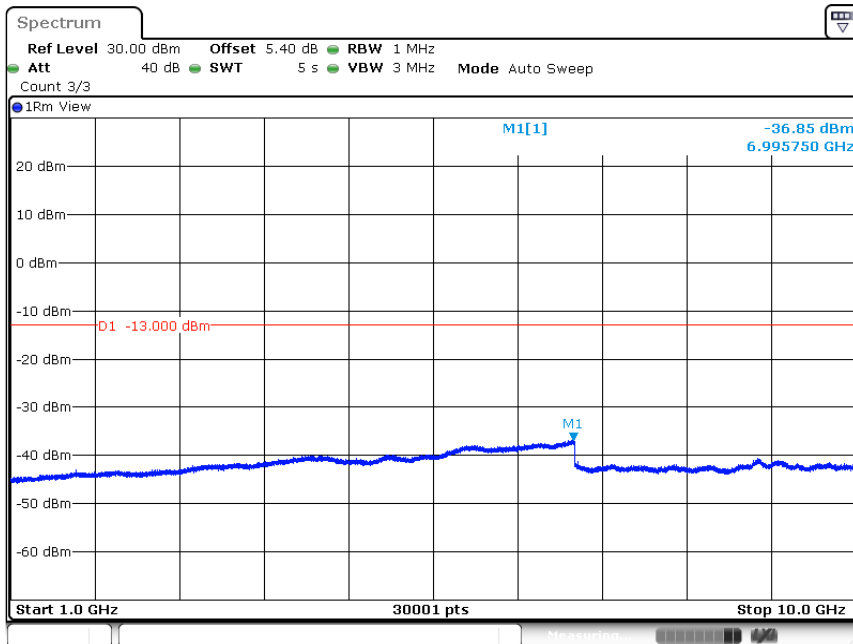
Date: 25 DEC 2020 17:30:13



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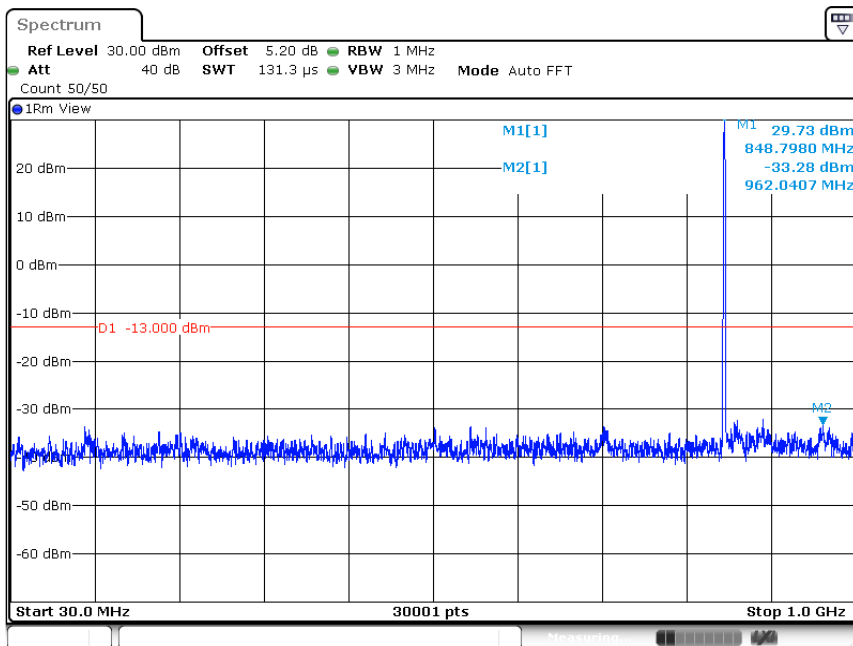
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EGPRS850-190-1000~10000MHz



Date: 25 DEC 2020 17:30:40

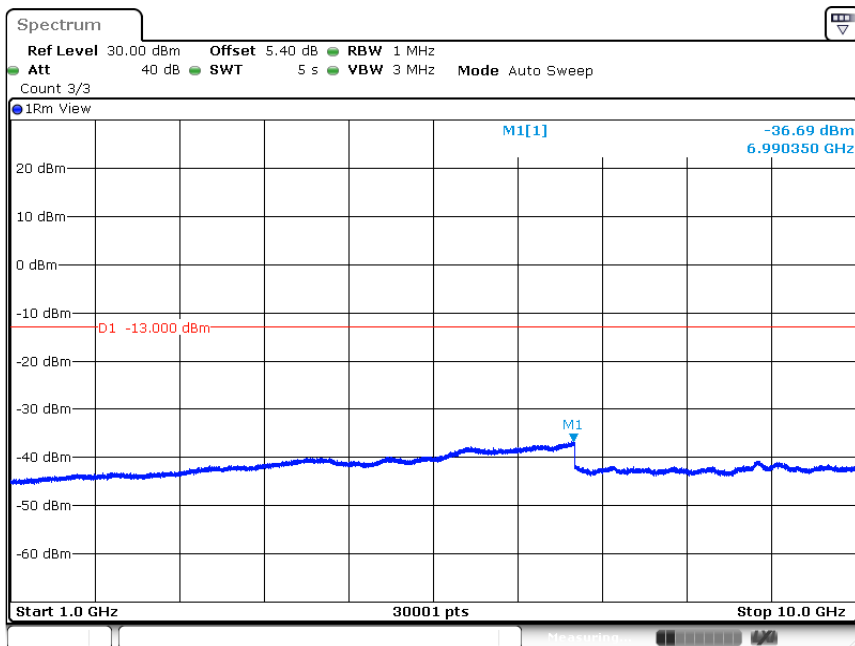
EGPRS850-251-30~1000MHz



Date: 25 DEC 2020 17:30:52

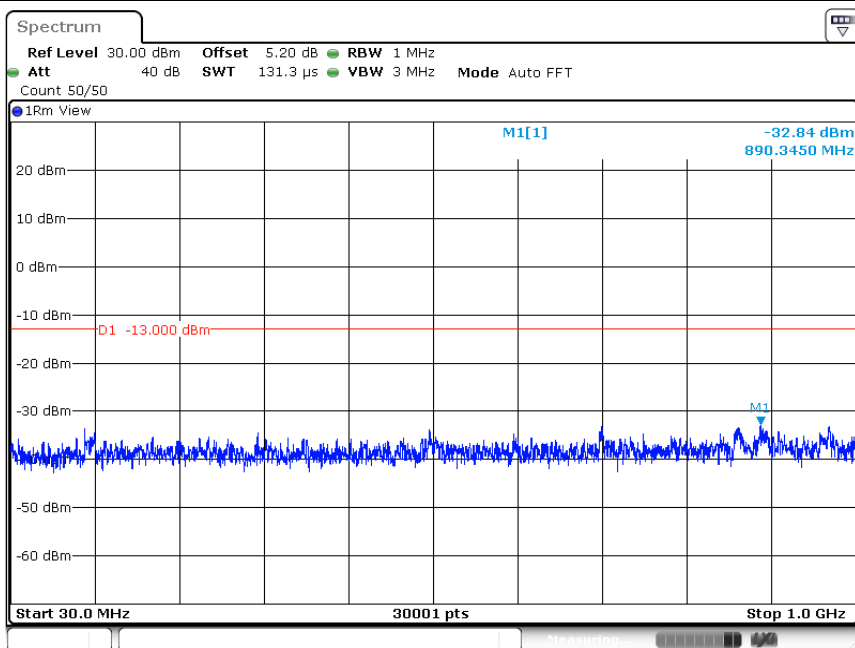


## EGPRS850-251-1000~10000MHz



Date: 25 DEC 2020 17:31:17

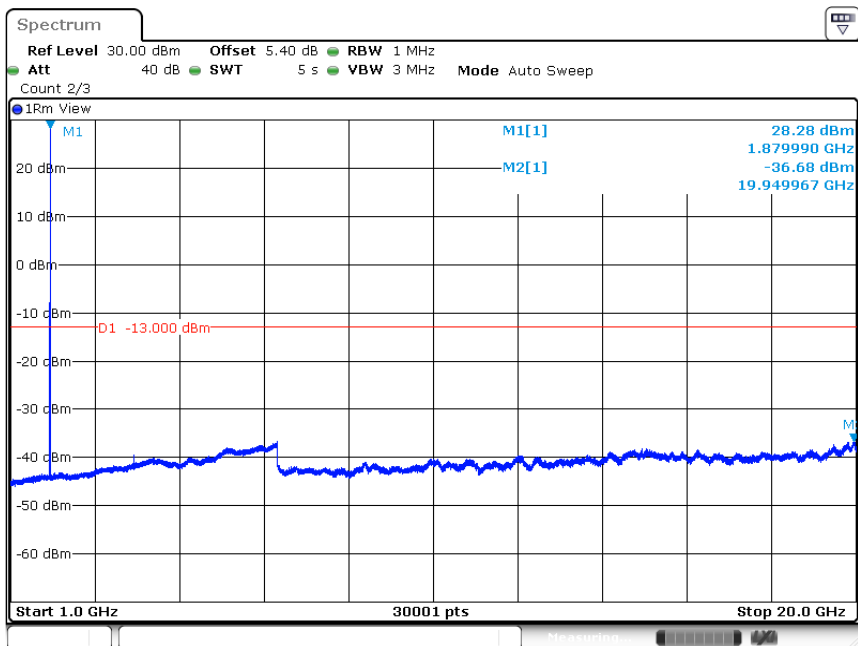
## GSM1900-512-30~1000MHz



Date: 25 DEC 2020 17:10:41

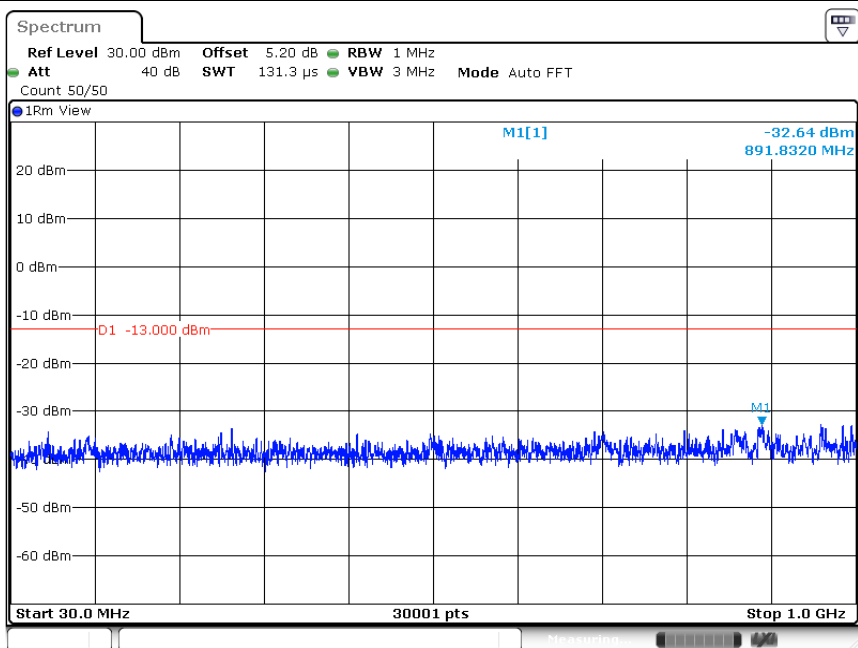


## GSM1900-512-1000~20000MHz



Date: 25 DEC 2020 17:11:17

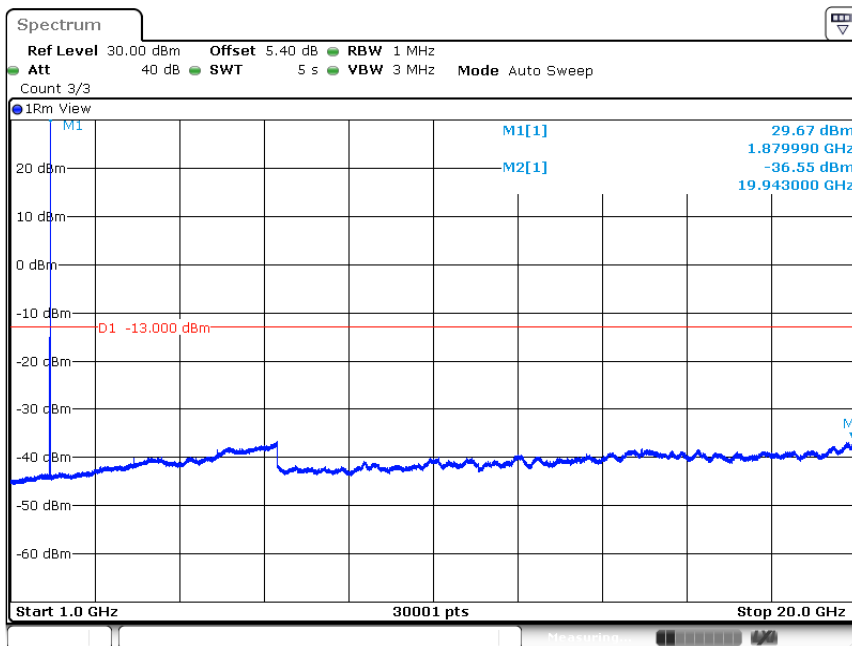
## GSM1900-661-30~1000MHz



Date: 25 DEC 2020 17:11:28

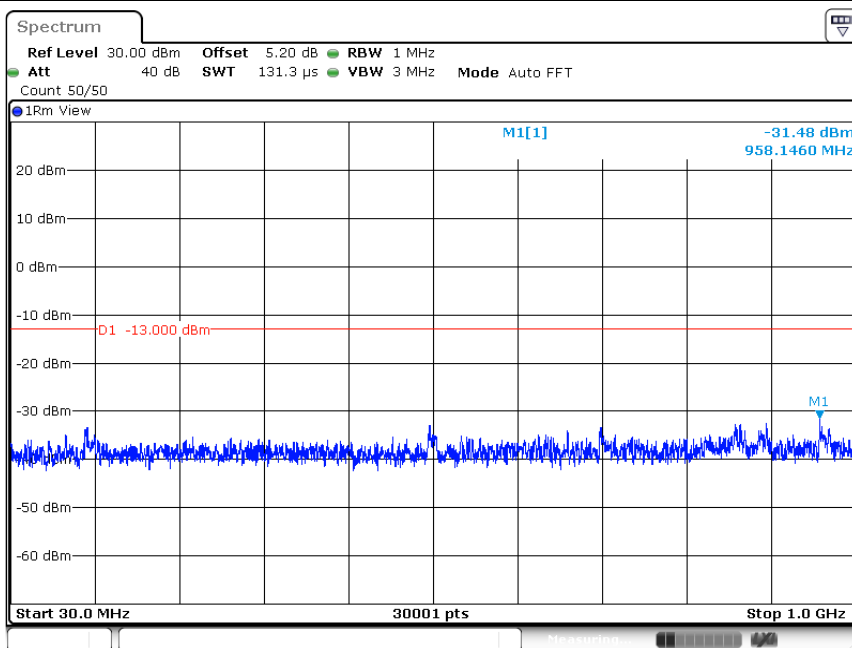


## GSM1900-661-1000~20000MHz



Date: 25 DEC 2020 17:11:53

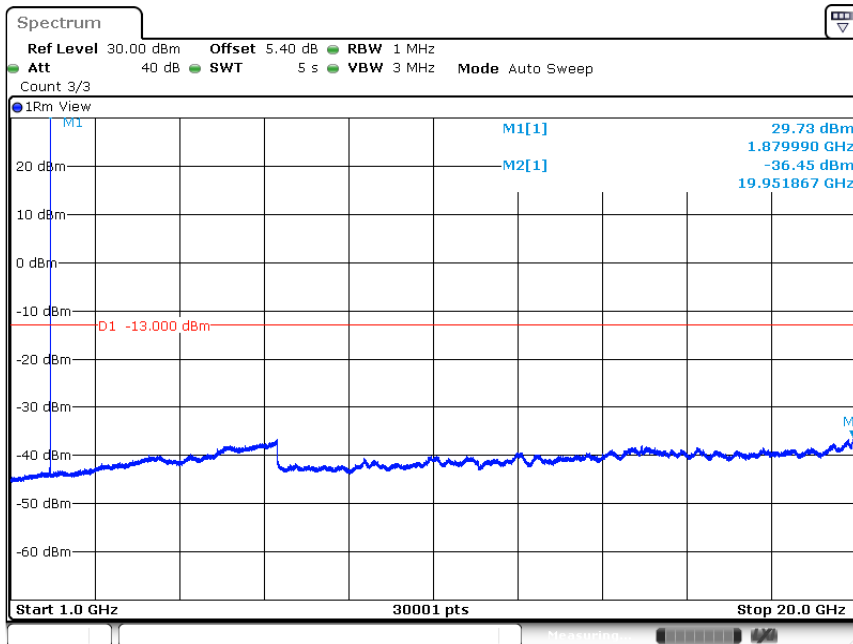
## GSM1900-810-30~1000MHz



Date: 25 DEC 2020 17:12:03

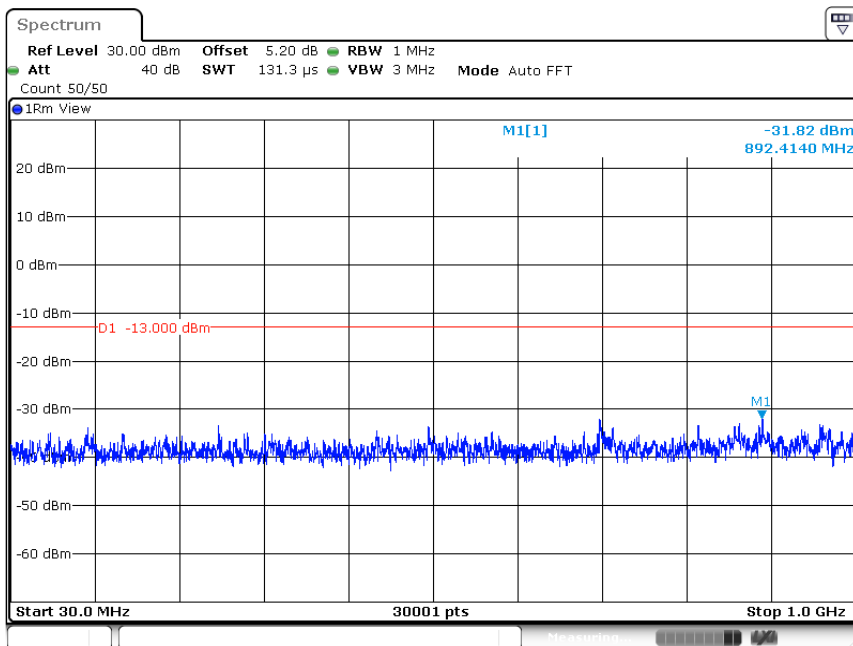


**GSM1900-810-1000~20000MHz**



Date: 25 DEC 2020 17:12:28

**EGPRS1900-512-30~1000MHz**



Date: 25 DEC 2020 17:16:45

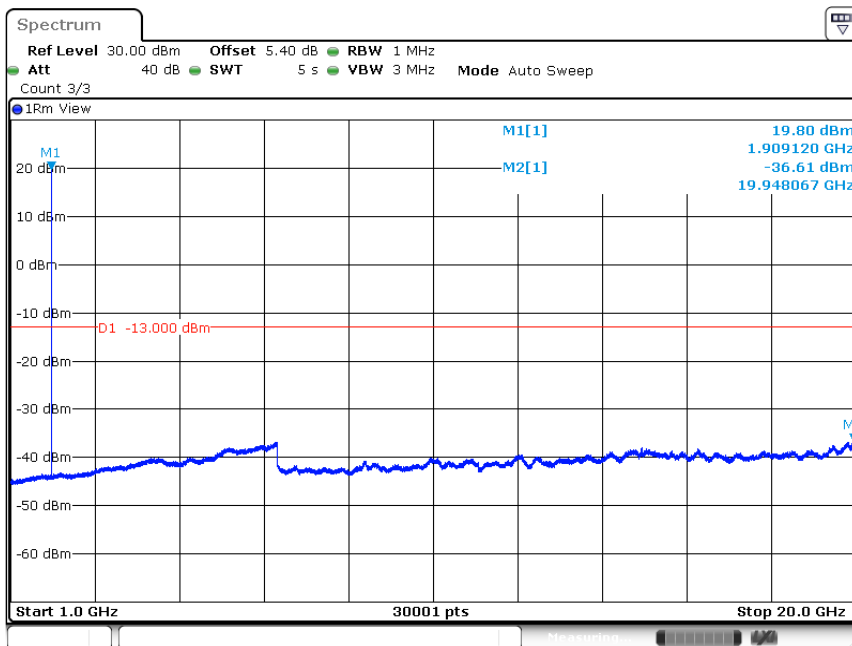


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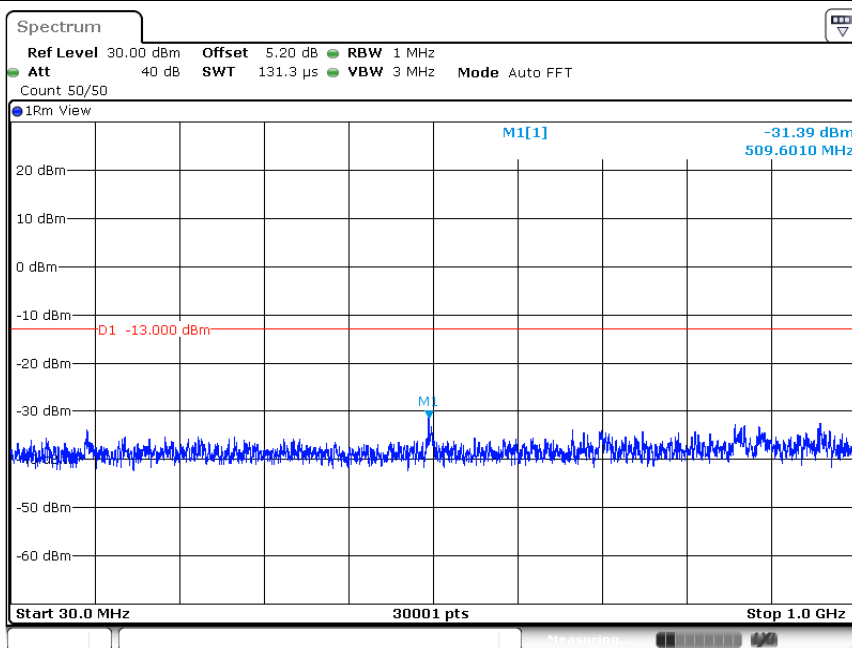


EGPRS1900-512-1000~20000MHz



Date: 25 DEC 2020 17:17:10

EGPRS1900-661-30~1000MHz



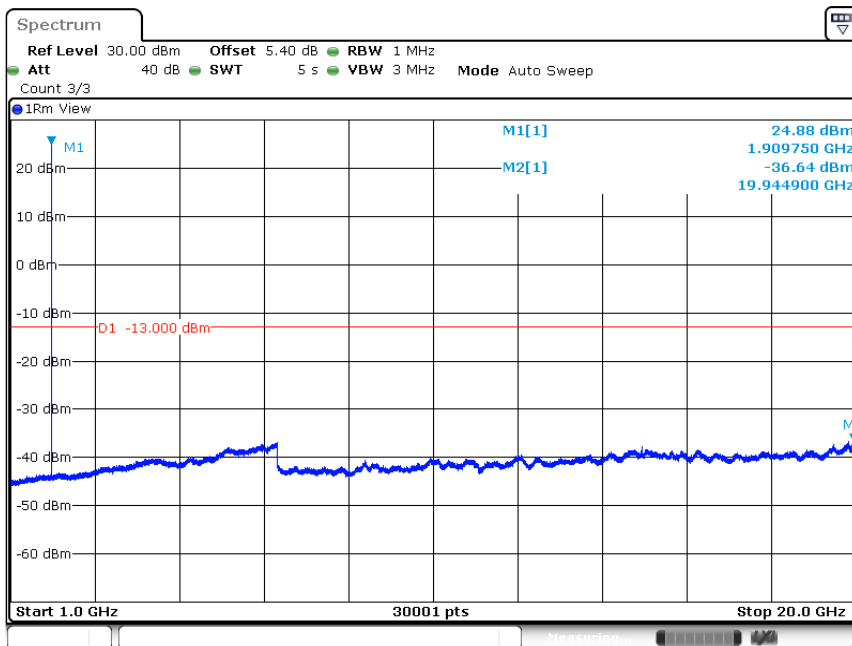
Date: 25 DEC 2020 17:17:21



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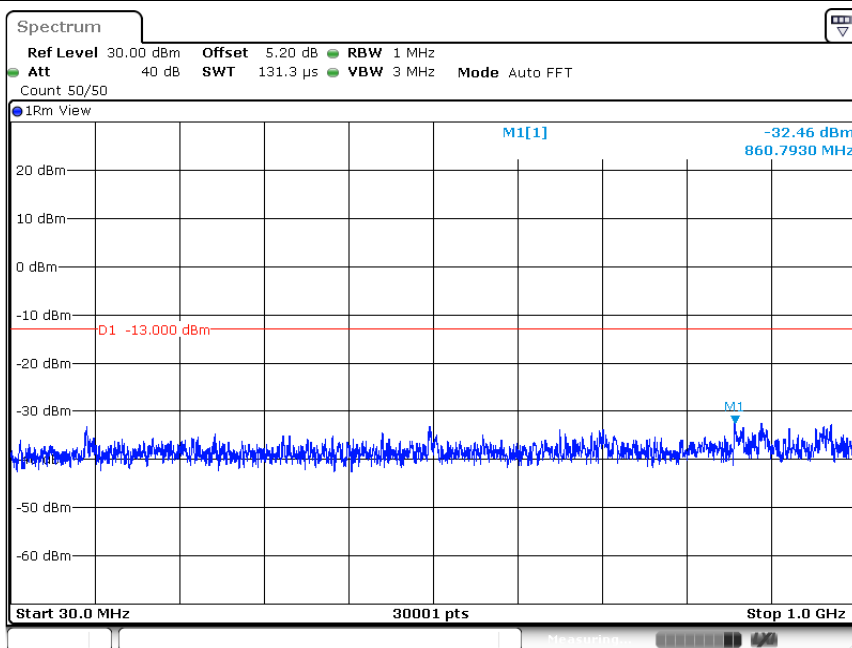
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### EGPRS1900-661-1000~20000MHz



Date: 25 DEC 2020 17:17:54

### EGPRS1900-810-30~1000MHz

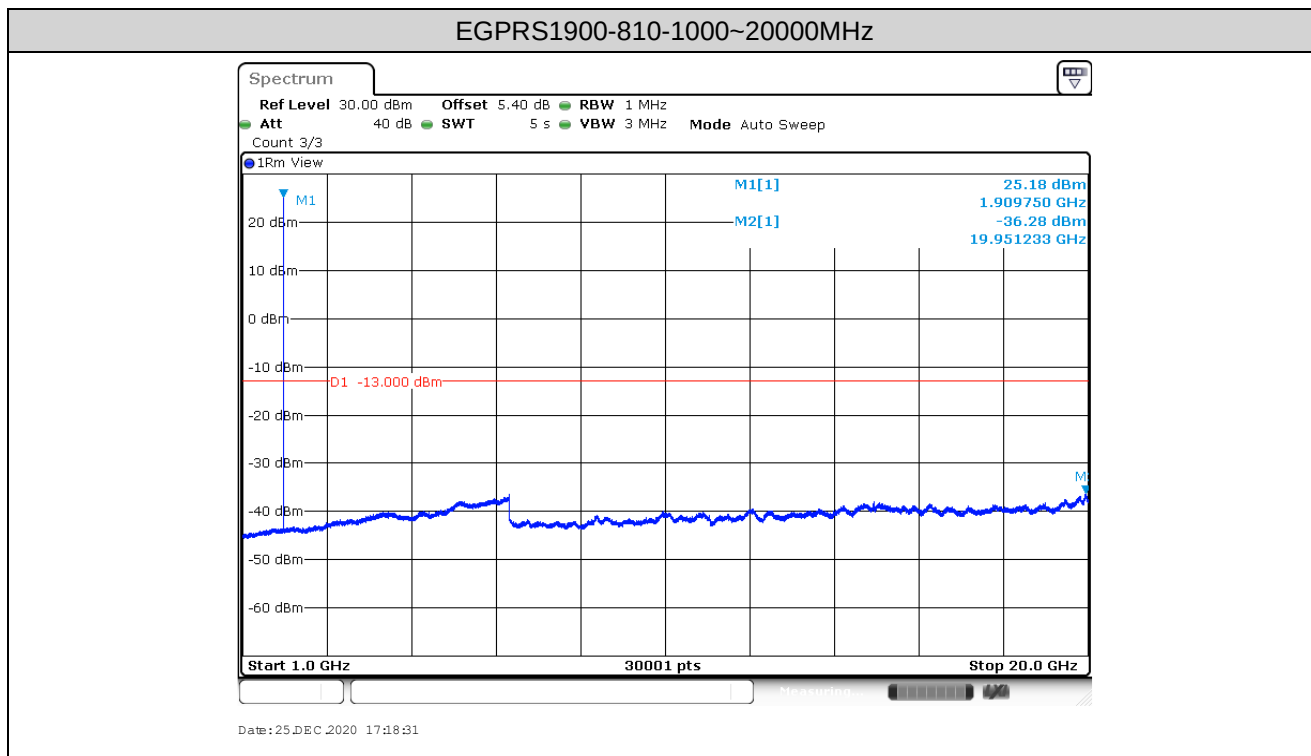


Date: 25 DEC 2020 17:18:05



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = GSM\_850 MAIN

#### 7.1.1. Test Channel = Low Channel

| Suspected Data List |                |                |                |                |            |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 43.8232        | -62.75         | -13.00         | 49.75          | Horizontal |
| 2                   | 99.0675        | -73.88         | -13.00         | 60.88          | Horizontal |
| 3                   | 241.8586       | -66.51         | -13.00         | 53.51          | Horizontal |
| 4                   | 1648.5297      | -39.14         | -13.00         | 26.14          | Horizontal |
| 5                   | 2473.0946      | -38.60         | -13.00         | 25.60          | Horizontal |
| 6                   | 4121.2040      | -59.59         | -13.00         | 46.59          | Horizontal |



## 7.2. Test Band = GSM\_850 MAIN

### 7.2.1. Test Channel = Low Channel

| Suspected Data List |                |                |                |                |          |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 31.6491        | -73.10         | -13.00         | 60.10          | Vertical |
| 2                   | 114.7822       | -62.69         | -13.00         | 49.69          | Vertical |
| 3                   | 460.2165       | -64.52         | -13.00         | 51.52          | Vertical |
| 4                   | 1648.1296      | -49.38         | -13.00         | 36.38          | Vertical |
| 5                   | 2472.2945      | -45.89         | -13.00         | 32.89          | Vertical |
| 6                   | 9821.7274      | -51.95         | -13.00         | 38.95          | Vertical |



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**7.3. Test Band = GSM\_850 MAIN****7.3.1. Test Channel = Mid Channel**

| Suspected Data List |                |                |                |                |            |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 42.9501        | -61.93         | -13.00         | 48.93          | Horizontal |
| 2                   | 102.0261       | -73.91         | -13.00         | 60.91          | Horizontal |
| 3                   | 237.0569       | -67.09         | -13.00         | 54.09          | Horizontal |
| 4                   | 1673.3347      | -39.90         | -13.00         | 26.90          | Horizontal |
| 5                   | 2509.9020      | -37.44         | -13.00         | 24.44          | Horizontal |
| 6                   | 9561.7854      | -52.67         | -13.00         | 39.67          | Horizontal |





#### 7.4. Test Band = GSM\_850 MAIN

##### 7.4.1. Test Channel = Mid Channel

| Suspected Data List |                |                |                |                |          |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 30.5335        | -74.85         | -13.00         | 61.85          | Vertical |
| 2                   | 108.4769       | -62.92         | -13.00         | 49.92          | Vertical |
| 3                   | 438.8269       | -66.25         | -13.00         | 53.25          | Vertical |
| 4                   | 1672.9346      | -49.11         | -13.00         | 36.11          | Vertical |
| 5                   | 2510.3021      | -46.45         | -13.00         | 33.45          | Vertical |
| 6                   | 9585.8195      | -52.62         | -13.00         | 39.62          | Vertical |



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**7.5. Test Band = GSM\_850 MAIN****7.5.1. Test Channel = High Channel**

| Suspected Data List |                |                |                |                |            |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 39.7490        | -63.22         | -13.00         | 50.22          | Horizontal |
| 2                   | 96.6423        | -72.93         | -13.00         | 59.93          | Horizontal |
| 3                   | 232.0126       | -66.59         | -13.00         | 53.59          | Horizontal |
| 4                   | 1697.3395      | -40.31         | -13.00         | 27.31          | Horizontal |
| 5                   | 2546.3093      | -41.56         | -13.00         | 28.56          | Horizontal |
| 6                   | 9542.6514      | -52.62         | -13.00         | 39.62          | Horizontal |



**7.6. Test Band = GSM\_850 MAIN****7.6.1. Test Channel = High Channel**

| Suspected Data List |                |                |                |                |          |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 30.6790        | -74.02         | -13.00         | 61.02          | Vertical |
| 2                   | 109.9320       | -63.73         | -13.00         | 50.73          | Vertical |
| 3                   | 421.0751       | -65.48         | -13.00         | 52.48          | Vertical |
| 4                   | 1697.7395      | -48.54         | -13.00         | 35.54          | Vertical |
| 5                   | 2546.7093      | -42.06         | -13.00         | 29.06          | Vertical |
| 6                   | 9313.0438      | -52.70         | -13.00         | 39.70          | Vertical |



**7.7. Test Band = GSM\_1900 MAIN****7.7.1. Test Channel = Low Channel**

| Suspected Data List |                |                |                |                |            |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 42.1741        | -63.87         | -13.00         | 50.87          | Horizontal |
| 2                   | 100.9590       | -74.14         | -13.00         | 61.14          | Horizontal |
| 3                   | 231.9641       | -67.78         | -13.00         | 54.78          | Horizontal |
| 4                   | 3700.5234      | -51.72         | -13.00         | 38.72          | Horizontal |
| 5                   | 5550.5850      | -46.22         | -13.00         | 33.22          | Horizontal |
| 6                   | 16401.946      | -45.13         | -13.00         | 32.13          | Horizontal |



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## 7.8. Test Band = GSM\_1900 MAIN

### 7.8.1. Test Channel = Low Channel

| Suspected Data List |                |                |                |                |          |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 30.2910        | -74.76         | -13.00         | 61.76          | Vertical |
| 2                   | 118.7109       | -63.68         | -13.00         | 50.68          | Vertical |
| 3                   | 386.1048       | -66.90         | -13.00         | 53.90          | Vertical |
| 4                   | 3700.5234      | -59.01         | -13.00         | 46.01          | Vertical |
| 5                   | 5550.5850      | -51.06         | -13.00         | 38.06          | Vertical |
| 6                   | 17988.499      | -41.06         | -13.00         | 28.06          | Vertical |



## 7.9. Test Band = GSM\_1900 MAIN

### 7.9.1. Test Channel = Mid Channel

| Suspected Data List |                |                |                |                |            |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 40.9130        | -63.30         | -13.00         | 50.30          | Horizontal |
| 2                   | 92.3741        | -74.73         | -13.00         | 61.73          | Horizontal |
| 3                   | 234.0497       | -66.84         | -13.00         | 53.84          | Horizontal |
| 4                   | 3760.0253      | -49.04         | -13.00         | 36.04          | Horizontal |
| 5                   | 5640.0880      | -47.26         | -13.00         | 34.26          | Horizontal |
| 6                   | 16386.446      | -44.76         | -13.00         | 31.76          | Horizontal |



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7.10. Test Band = GSM\_1900 MAIN

7.10.1. Test Channel = Mid Channel

| Suspected Data List |                |                |                |                |          |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 30.2425        | -75.02         | -13.00         | 62.02          | Vertical |
| 2                   | 110.6595       | -63.97         | -13.00         | 50.97          | Vertical |
| 3                   | 459.2465       | -65.95         | -13.00         | 52.95          | Vertical |
| 4                   | 3760.0253      | -57.40         | -13.00         | 44.40          | Vertical |
| 5                   | 5640.0880      | -50.33         | -13.00         | 37.33          | Vertical |
| 6                   | 17999.000      | -41.31         | -13.00         | 28.31          | Vertical |



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7.11. Test Band = GSM\_1900 MAIN

7.11.1. Test Channel = High Channel

| Suspected Data List |                |                |                |                |            |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 44.1142        | -63.23         | -13.00         | 50.23          | Horizontal |
| 2                   | 109.3500       | -74.83         | -13.00         | 61.83          | Horizontal |
| 3                   | 234.3892       | -66.82         | -13.00         | 53.82          | Horizontal |
| 4                   | 3819.5273      | -53.61         | -13.00         | 40.61          | Horizontal |
| 5                   | 5729.5910      | -51.17         | -13.00         | 38.17          | Horizontal |
| 6                   | 16376.445      | -45.26         | -13.00         | 32.26          | Horizontal |



## 7.12. Test Band = GSM\_1900 MAIN

### 7.12.1. Test Channel = High Channel

| Suspected Data List |                |                |                |                |          |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 31.6976        | -75.94         | -13.00         | 62.94          | Vertical |
| 2                   | 115.5583       | -63.98         | -13.00         | 50.98          | Vertical |
| 3                   | 517.6919       | -65.27         | -13.00         | 52.27          | Vertical |
| 4                   | 3819.5273      | -55.38         | -13.00         | 42.38          | Vertical |
| 5                   | 5729.5910      | -55.43         | -13.00         | 42.43          | Vertical |
| 6                   | 17997.999      | -41.38         | -13.00         | 28.38          | Vertical |



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### 7.13. Test Band = GSM\_850 DIV

#### 7.13.1. Test Channel = Low Channel

| Suspected Data List |                |                |                |                |            |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 43.6292        | -62.97         | -13.00         | 49.97          | Horizontal |
| 2                   | 101.8806       | -74.69         | -13.00         | 61.69          | Horizontal |
| 3                   | 244.0897       | -66.53         | -13.00         | 53.53          | Horizontal |
| 4                   | 1648.5297      | -46.44         | -13.00         | 33.44          | Horizontal |
| 5                   | 2473.0946      | -36.00         | -13.00         | 23.00          | Horizontal |
| 6                   | 9313.2771      | -52.05         | -13.00         | 39.05          | Horizontal |



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#### 7.14. Test Band = GSM\_850 DIV

##### 7.14.1. Test Channel = Low Channel

| Suspected Data List |                |                |                |                |          |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 30.9215        | -74.51         | -13.00         | 61.51          | Vertical |
| 2                   | 116.0433       | -63.08         | -13.00         | 50.08          | Vertical |
| 3                   | 433.3462       | -66.38         | -13.00         | 53.38          | Vertical |
| 4                   | 1648.1296      | -47.16         | -13.00         | 34.16          | Vertical |
| 5                   | 2472.6945      | -39.57         | -13.00         | 26.57          | Vertical |
| 6                   | 9851.8284      | -51.88         | -13.00         | 38.88          | Vertical |



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## 7.15. Test Band = GSM\_850 DIV

## 7.15.1. Test Channel = Mid Channel

| Suspected Data List |                |                |                |                |            |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 38.5364        | -63.14         | -13.00         | 50.14          | Horizontal |
| 2                   | 97.3699        | -74.51         | -13.00         | 61.51          | Horizontal |
| 3                   | 236.1353       | -67.13         | -13.00         | 54.13          | Horizontal |
| 4                   | 1672.9346      | -40.76         | -13.00         | 27.76          | Horizontal |
| 5                   | 2509.9020      | -30.10         | -13.00         | 17.10          | Horizontal |
| 6                   | 9329.8443      | -52.13         | -13.00         | 39.13          | Horizontal |



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## 7.16. Test Band = GSM\_850 DIV

### 7.16.1. Test Channel = Mid Channel

| Suspected Data List |                |                |                |                |          |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 30.6790        | -74.81         | -13.00         | 61.81          | Vertical |
| 2                   | 112.3571       | -63.24         | -13.00         | 50.24          | Vertical |
| 3                   | 439.0210       | -66.17         | -13.00         | 53.17          | Vertical |
| 4                   | 1672.9346      | -47.64         | -13.00         | 34.64          | Vertical |
| 5                   | 2509.9020      | -44.90         | -13.00         | 31.90          | Vertical |
| 6                   | 9874.6958      | -51.80         | -13.00         | 38.80          | Vertical |



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7.17. Test Band = GSM\_850 DIV

7.17.1. Test Channel = High Channel

| Suspected Data List |                |                |                |                |            |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 46.6848        | -62.91         | -13.00         | 49.91          | Horizontal |
| 2                   | 106.1003       | -74.01         | -13.00         | 61.01          | Horizontal |
| 3                   | 233.0312       | -67.00         | -13.00         | 54.00          | Horizontal |
| 4                   | 1697.3395      | -48.21         | -13.00         | 35.21          | Horizontal |
| 5                   | 2546.7093      | -35.34         | -13.00         | 22.34          | Horizontal |
| 6                   | 9571.1190      | -52.05         | -13.00         | 39.05          | Horizontal |



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## 7.18. Test Band = GSM\_850 DIV

## 7.18.1. Test Channel = High Channel

| Suspected Data List |                |                |                |                |          |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 30.0485        | -74.00         | -13.00         | 61.00          | Vertical |
| 2                   | 108.8164       | -63.38         | -13.00         | 50.38          | Vertical |
| 3                   | 330.5695       | -67.35         | -13.00         | 54.35          | Vertical |
| 4                   | 1697.7395      | -47.50         | -13.00         | 34.50          | Vertical |
| 5                   | 2546.7093      | -38.92         | -13.00         | 25.92          | Vertical |
| 6                   | 9890.3297      | -51.61         | -13.00         | 38.61          | Vertical |



**7.19. Test Band = GSM\_1900 DIV****7.19.1. Test Channel = Low Channel**

| Suspected Data List |                |                |                |                |            |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 42.4166        | -63.02         | -13.00         | 50.02          | Horizontal |
| 2                   | 103.9177       | -75.05         | -13.00         | 62.05          | Horizontal |
| 3                   | 233.1282       | -68.07         | -13.00         | 55.07          | Horizontal |
| 4                   | 3700.5234      | -54.68         | -13.00         | 41.68          | Horizontal |
| 5                   | 5550.5850      | -46.09         | -13.00         | 33.09          | Horizontal |
| 6                   | 16377.945      | -43.38         | -13.00         | 30.38          | Horizontal |





## 7.20. Test Band = GSM\_1900 DIV

### 7.20.1. Test Channel = Low Channel

| Suspected Data List |                |                |                |                |          |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 30.4365        | -75.08         | -13.00         | 62.08          | Vertical |
| 2                   | 108.4769       | -64.82         | -13.00         | 51.82          | Vertical |
| 3                   | 648.4059       | -62.73         | -13.00         | 49.73          | Vertical |
| 4                   | 3700.5234      | -51.25         | -13.00         | 38.25          | Vertical |
| 5                   | 5550.5850      | -51.40         | -13.00         | 38.40          | Vertical |
| 6                   | 17998.500      | -39.16         | -13.00         | 26.16          | Vertical |



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**7.21. Test Band = GSM\_1900 DIV****7.21.1. Test Channel = Mid Channel**

| Suspected Data List |                |                |                |                |            |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 45.0358        | -63.27         | -13.00         | 50.27          | Horizontal |
| 2                   | 83.5952        | -75.42         | -13.00         | 62.42          | Horizontal |
| 3                   | 234.7772       | -67.27         | -13.00         | 54.27          | Horizontal |
| 4                   | 3760.0253      | -47.60         | -13.00         | 34.60          | Horizontal |
| 5                   | 5640.0880      | -44.58         | -13.00         | 31.58          | Horizontal |
| 6                   | 16374.445      | -42.92         | -13.00         | 29.92          | Horizontal |





7.22. Test Band = GSM\_1900 DIV

7.22.1. Test Channel = Mid Channel

| Suspected Data List |                |                |                |                |          |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 31.4066        | -74.06         | -13.00         | 61.06          | Vertical |
| 2                   | 108.3799       | -64.77         | -13.00         | 51.77          | Vertical |
| 3                   | 595.8293       | -63.06         | -13.00         | 50.06          | Vertical |
| 4                   | 3759.5253      | -54.89         | -13.00         | 41.89          | Vertical |
| 5                   | 5640.0880      | -47.83         | -13.00         | 34.83          | Vertical |
| 6                   | 17995.999      | -39.23         | -13.00         | 26.23          | Vertical |



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**7.23. Test Band = GSM\_1900 DIV****7.23.1. Test Channel = High Channel**

| Suspected Data List |                |                |                |                |            |
|---------------------|----------------|----------------|----------------|----------------|------------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1                   | 44.1142        | -63.04         | -13.00         | 50.04          | Horizontal |
| 2                   | 102.1716       | -74.26         | -13.00         | 61.26          | Horizontal |
| 3                   | 242.8286       | -67.21         | -13.00         | 54.21          | Horizontal |
| 4                   | 3819.5273      | -57.23         | -13.00         | 44.23          | Horizontal |
| 5                   | 5729.5910      | -41.76         | -13.00         | 28.76          | Horizontal |
| 6                   | 16378.445      | -43.18         | -13.00         | 30.18          | Horizontal |





## 7.24. Test Band = GSM\_1900 DIV

### 7.24.1. Test Channel = High Channel

| Suspected Data List |                |                |                |                |          |
|---------------------|----------------|----------------|----------------|----------------|----------|
| NO.                 | Freq.<br>[MHz] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1                   | 30.1940        | -74.54         | -13.00         | 61.54          | Vertical |
| 2                   | 110.4170       | -64.15         | -13.00         | 51.15          | Vertical |
| 3                   | 638.6084       | -62.84         | -13.00         | 49.84          | Vertical |
| 4                   | 3820.0273      | -55.94         | -13.00         | 42.94          | Vertical |
| 5                   | 5729.5910      | -50.19         | -13.00         | 37.19          | Vertical |
| 6                   | 17999.500      | -39.27         | -13.00         | 26.27          | Vertical |

Remark:

- 1) According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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## 8. Frequency Stability

### 8.1. Frequency Error Vs Voltage

| Voltage   |         |               |                  |                |                 |             |         |
|-----------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band      | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850    | 128     | VL            | NT               | 21.63          | 0.026244        | ±2.5        | PASS    |
| GSM850    | 128     | VN            | NT               | 17.98          | 0.021815        | ±2.5        | PASS    |
| GSM850    | 128     | VH            | NT               | 16.40          | 0.019898        | ±2.5        | PASS    |
| GSM850    | 190     | VL            | NT               | 13.79          | 0.016483        | ±2.5        | PASS    |
| GSM850    | 190     | VN            | NT               | 21.28          | 0.025436        | ±2.5        | PASS    |
| GSM850    | 190     | VH            | NT               | 18.08          | 0.021611        | ±2.5        | PASS    |
| GSM850    | 251     | VL            | NT               | 22.79          | 0.026850        | ±2.5        | PASS    |
| GSM850    | 251     | VN            | NT               | 26.25          | 0.030926        | ±2.5        | PASS    |
| GSM850    | 251     | VH            | NT               | 25.18          | 0.029665        | ±2.5        | PASS    |
| EGPRS850  | 128     | VL            | NT               | 46.39          | 0.056285        | ±2.5        | PASS    |
| EGPRS850  | 128     | VN            | NT               | 45.59          | 0.055314        | ±2.5        | PASS    |
| EGPRS850  | 128     | VH            | NT               | 43.39          | 0.052645        | ±2.5        | PASS    |
| EGPRS850  | 190     | VL            | NT               | 41.04          | 0.049056        | ±2.5        | PASS    |
| EGPRS850  | 190     | VN            | NT               | 46.49          | 0.055570        | ±2.5        | PASS    |
| EGPRS850  | 190     | VH            | NT               | 42.42          | 0.050705        | ±2.5        | PASS    |
| EGPRS850  | 251     | VL            | NT               | 41.10          | 0.048421        | ±2.5        | PASS    |
| EGPRS850  | 251     | VN            | NT               | 43.17          | 0.050860        | ±2.5        | PASS    |
| EGPRS850  | 251     | VH            | NT               | 47.30          | 0.055726        | ±2.5        | PASS    |
| GSM1900   | 512     | VL            | NT               | 31.45          | 0.016998        | ±2.5        | PASS    |
| GSM1900   | 512     | VN            | NT               | 28.48          | 0.015393        | ±2.5        | PASS    |
| GSM1900   | 512     | VH            | NT               | 25.80          | 0.013944        | ±2.5        | PASS    |
| GSM1900   | 661     | VL            | NT               | 44.43          | 0.023633        | ±2.5        | PASS    |
| GSM1900   | 661     | VN            | NT               | 42.39          | 0.022548        | ±2.5        | PASS    |
| GSM1900   | 661     | VH            | NT               | 41.39          | 0.022016        | ±2.5        | PASS    |
| GSM1900   | 810     | VL            | NT               | 45.91          | 0.024039        | ±2.5        | PASS    |
| GSM1900   | 810     | VN            | NT               | 41.81          | 0.021892        | ±2.5        | PASS    |
| GSM1900   | 810     | VH            | NT               | 34.51          | 0.018070        | ±2.5        | PASS    |
| EGPRS1900 | 512     | VL            | NT               | 41.91          | 0.022652        | ±2.5        | PASS    |
| EGPRS1900 | 512     | VN            | NT               | 46.56          | 0.025165        | ±2.5        | PASS    |
| EGPRS1900 | 512     | VH            | NT               | 41.75          | 0.022565        | ±2.5        | PASS    |
| EGPRS1900 | 661     | VL            | NT               | 54.11          | 0.028782        | ±2.5        | PASS    |
| EGPRS1900 | 661     | VN            | NT               | 48.07          | 0.025569        | ±2.5        | PASS    |



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|           |     |    |    |       |          |      |      |
|-----------|-----|----|----|-------|----------|------|------|
| EGPRS1900 | 661 | VH | NT | 55.43 | 0.029484 | ±2.5 | PASS |
| EGPRS1900 | 810 | VL | NT | 55.69 | 0.029160 | ±2.5 | PASS |
| EGPRS1900 | 810 | VN | NT | 49.24 | 0.025783 | ±2.5 | PASS |
| EGPRS1900 | 810 | VH | NT | 58.76 | 0.030768 | ±2.5 | PASS |



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## 8.2.Frequency Error Vs Temperature

| Temperature |         |               |                  |                |                 |             |         |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850      | 128     | NV            | -30              | 18.66          | 0.022640        | ±2.5        | PASS    |
| GSM850      | 128     | NV            | -20              | 21.02          | 0.025504        | ±2.5        | PASS    |
| GSM850      | 128     | NV            | -10              | 20.44          | 0.024800        | ±2.5        | PASS    |
| GSM850      | 128     | NV            | 0                | 18.02          | 0.021864        | ±2.5        | PASS    |
| GSM850      | 128     | NV            | 10               | 15.88          | 0.019267        | ±2.5        | PASS    |
| GSM850      | 128     | NV            | 20               | 16.59          | 0.020129        | ±2.5        | PASS    |
| GSM850      | 128     | NV            | 30               | 18.14          | 0.022009        | ±2.5        | PASS    |
| GSM850      | 128     | NV            | 40               | 16.69          | 0.020250        | ±2.5        | PASS    |
| GSM850      | 128     | NV            | 50               | 24.54          | 0.029774        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | -30              | 17.18          | 0.020536        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | -20              | 22.12          | 0.026440        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | -10              | 17.21          | 0.020571        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | 0                | 17.14          | 0.020488        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | 10               | 17.40          | 0.020798        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | 20               | 14.59          | 0.017440        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | 30               | 22.08          | 0.026393        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | 40               | 15.85          | 0.018946        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | 50               | 19.27          | 0.023034        | ±2.5        | PASS    |
| GSM850      | 251     | NV            | -30              | 24.38          | 0.028723        | ±2.5        | PASS    |
| GSM850      | 251     | NV            | -20              | 25.73          | 0.030313        | ±2.5        | PASS    |
| GSM850      | 251     | NV            | -10              | 23.89          | 0.028146        | ±2.5        | PASS    |
| GSM850      | 251     | NV            | 0                | 23.79          | 0.028028        | ±2.5        | PASS    |
| GSM850      | 251     | NV            | 10               | 24.89          | 0.029324        | ±2.5        | PASS    |
| GSM850      | 251     | NV            | 20               | 22.12          | 0.026060        | ±2.5        | PASS    |
| GSM850      | 251     | NV            | 30               | 23.18          | 0.027309        | ±2.5        | PASS    |
| GSM850      | 251     | NV            | 40               | 27.02          | 0.031833        | ±2.5        | PASS    |
| GSM850      | 251     | NV            | 50               | 25.31          | 0.029819        | ±2.5        | PASS    |
| EGPRS850    | 128     | NV            | -30              | 43.97          | 0.053349        | ±2.5        | PASS    |
| EGPRS850    | 128     | NV            | -20              | 42.33          | 0.051359        | ±2.5        | PASS    |
| EGPRS850    | 128     | NV            | -10              | 44.68          | 0.054210        | ±2.5        | PASS    |
| EGPRS850    | 128     | NV            | 0                | 45.23          | 0.054877        | ±2.5        | PASS    |
| EGPRS850    | 128     | NV            | 10               | 44.78          | 0.054331        | ±2.5        | PASS    |
| EGPRS850    | 128     | NV            | 20               | 43.75          | 0.053082        | ±2.5        | PASS    |



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|          |     |    |     |       |          |      |      |
|----------|-----|----|-----|-------|----------|------|------|
| EGPRS850 | 128 | NV | 30  | 42.65 | 0.051747 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 40  | 42.78 | 0.051905 | ±2.5 | PASS |
| EGPRS850 | 128 | NV | 50  | 42.91 | 0.052063 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | -30 | 42.65 | 0.050980 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | -20 | 43.23 | 0.051673 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | -10 | 42.42 | 0.050705 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 0   | 41.91 | 0.050096 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 10  | 39.26 | 0.046928 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 20  | 42.33 | 0.050598 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 30  | 41.62 | 0.049749 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 40  | 40.84 | 0.048817 | ±2.5 | PASS |
| EGPRS850 | 190 | NV | 50  | 41.75 | 0.049904 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | -30 | 48.98 | 0.057705 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | -20 | 46.39 | 0.054654 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | -10 | 48.85 | 0.057552 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 0   | 47.17 | 0.055573 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 10  | 48.17 | 0.056751 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 20  | 47.65 | 0.056138 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 30  | 45.68 | 0.053817 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 40  | 47.20 | 0.055608 | ±2.5 | PASS |
| EGPRS850 | 251 | NV | 50  | 47.04 | 0.055419 | ±2.5 | PASS |
| GSM1900  | 512 | NV | -30 | 28.73 | 0.015528 | ±2.5 | PASS |
| GSM1900  | 512 | NV | -20 | 29.86 | 0.016139 | ±2.5 | PASS |
| GSM1900  | 512 | NV | -10 | 28.09 | 0.015182 | ±2.5 | PASS |
| GSM1900  | 512 | NV | 0   | 31.58 | 0.017068 | ±2.5 | PASS |
| GSM1900  | 512 | NV | 10  | 27.70 | 0.014971 | ±2.5 | PASS |
| GSM1900  | 512 | NV | 20  | 30.25 | 0.016350 | ±2.5 | PASS |
| GSM1900  | 512 | NV | 30  | 24.50 | 0.013242 | ±2.5 | PASS |
| GSM1900  | 512 | NV | 40  | 28.99 | 0.015669 | ±2.5 | PASS |
| GSM1900  | 512 | NV | 50  | 28.15 | 0.015215 | ±2.5 | PASS |
| GSM1900  | 661 | NV | -30 | 46.69 | 0.024835 | ±2.5 | PASS |
| GSM1900  | 661 | NV | -20 | 39.68 | 0.021106 | ±2.5 | PASS |
| GSM1900  | 661 | NV | -10 | 46.10 | 0.024521 | ±2.5 | PASS |
| GSM1900  | 661 | NV | 0   | 43.72 | 0.023255 | ±2.5 | PASS |
| GSM1900  | 661 | NV | 10  | 41.68 | 0.022170 | ±2.5 | PASS |
| GSM1900  | 661 | NV | 20  | 37.87 | 0.020144 | ±2.5 | PASS |
| GSM1900  | 661 | NV | 30  | 44.72 | 0.023787 | ±2.5 | PASS |



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|           |     |    |     |       |          |      |      |
|-----------|-----|----|-----|-------|----------|------|------|
| GSM1900   | 661 | NV | 40  | 43.13 | 0.022941 | ±2.5 | PASS |
| GSM1900   | 661 | NV | 50  | 43.91 | 0.023356 | ±2.5 | PASS |
| GSM1900   | 810 | NV | -30 | 34.87 | 0.018258 | ±2.5 | PASS |
| GSM1900   | 810 | NV | -20 | 42.20 | 0.022097 | ±2.5 | PASS |
| GSM1900   | 810 | NV | -10 | 40.55 | 0.021233 | ±2.5 | PASS |
| GSM1900   | 810 | NV | 0   | 36.52 | 0.019122 | ±2.5 | PASS |
| GSM1900   | 810 | NV | 10  | 36.32 | 0.019018 | ±2.5 | PASS |
| GSM1900   | 810 | NV | 20  | 38.94 | 0.020390 | ±2.5 | PASS |
| GSM1900   | 810 | NV | 30  | 39.16 | 0.020505 | ±2.5 | PASS |
| GSM1900   | 810 | NV | 40  | 37.71 | 0.019746 | ±2.5 | PASS |
| GSM1900   | 810 | NV | 50  | 38.42 | 0.020117 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | -30 | 43.49 | 0.023506 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | -20 | 43.46 | 0.023489 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | -10 | 41.10 | 0.022214 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 0   | 40.33 | 0.021798 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 10  | 43.33 | 0.023419 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 20  | 44.01 | 0.023787 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 30  | 41.23 | 0.022284 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 40  | 41.52 | 0.022441 | ±2.5 | PASS |
| EGPRS1900 | 512 | NV | 50  | 45.17 | 0.024414 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | -30 | 55.73 | 0.029644 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | -20 | 52.76 | 0.028064 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | -10 | 56.76 | 0.030191 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 0   | 53.85 | 0.028644 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 10  | 52.17 | 0.027750 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 20  | 58.21 | 0.030963 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 30  | 57.73 | 0.030707 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 40  | 48.14 | 0.025606 | ±2.5 | PASS |
| EGPRS1900 | 661 | NV | 50  | 53.27 | 0.028335 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | -30 | 56.37 | 0.029516 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | -20 | 54.92 | 0.028757 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | -10 | 55.27 | 0.028940 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 0   | 56.02 | 0.029333 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 10  | 58.82 | 0.030799 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 20  | 56.82 | 0.029752 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 30  | 53.50 | 0.028013 | ±2.5 | PASS |
| EGPRS1900 | 810 | NV | 40  | 55.53 | 0.029076 | ±2.5 | PASS |



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|           |     |    |    |       |          |      |      |
|-----------|-----|----|----|-------|----------|------|------|
| EGPRS1900 | 810 | NV | 50 | 58.79 | 0.030783 | ±2.5 | PASS |
|-----------|-----|----|----|-------|----------|------|------|

The End



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Shenzhen Branch Testing Center EEC Laboratory

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