

## Appendix A: Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band    | Channel | PCL | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|---------|---------|-----|-----------------------|----------------|----------------------|---------|
| GSM850  | 128     | 5   | 32.13                 | 27.9           | 38.45                | PASS    |
| GSM850  | 190     | 5   | 32.37                 | 28.14          | 38.45                | PASS    |
| GSM850  | 251     | 5   | 32.19                 | 27.96          | 38.45                | PASS    |
| GSM1900 | 512     | 0   | 28.89                 | 26.81          | 33.00                | PASS    |
| GSM1900 | 661     | 0   | 29.11                 | 27.03          | 33.00                | PASS    |
| GSM1900 | 810     | 0   | 28.97                 | 26.89          | 33.00                | PASS    |

| Band     | Channel | PCL | Slot | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP Limit (dBm) | Verdict |
|----------|---------|-----|------|-----------------------|----------------|----------------------|---------|
| GPRS850  | 128     | 5   | 1    | 32.10                 | 27.87          | 38.45                | PASS    |
| GPRS850  | 128     | 5   | 2    | 30.08                 | 25.85          | 38.45                | PASS    |
| GPRS850  | 128     | 5   | 3    | 28.41                 | 24.18          | 38.45                | PASS    |
| GPRS850  | 128     | 5   | 4    | 26.39                 | 22.16          | 38.45                | PASS    |
| GPRS850  | 190     | 5   | 1    | 32.33                 | 28.1           | 38.45                | PASS    |
| GPRS850  | 190     | 5   | 2    | 30.36                 | 26.13          | 38.45                | PASS    |
| GPRS850  | 190     | 5   | 3    | 28.69                 | 24.46          | 38.45                | PASS    |
| GPRS850  | 190     | 5   | 4    | 26.67                 | 22.44          | 38.45                | PASS    |
| GPRS850  | 251     | 5   | 1    | 32.15                 | 27.92          | 38.45                | PASS    |
| GPRS850  | 251     | 5   | 2    | 30.13                 | 25.9           | 38.45                | PASS    |
| GPRS850  | 251     | 5   | 3    | 28.50                 | 24.27          | 38.45                | PASS    |
| GPRS850  | 251     | 5   | 4    | 26.47                 | 22.24          | 38.45                | PASS    |
| GPRS1900 | 512     | 0   | 1    | 28.86                 | 26.78          | 33.00                | PASS    |
| GPRS1900 | 512     | 0   | 2    | 26.50                 | 24.42          | 33.00                | PASS    |
| GPRS1900 | 512     | 0   | 3    | 24.95                 | 22.87          | 33.00                | PASS    |
| GPRS1900 | 512     | 0   | 4    | 22.86                 | 20.78          | 33.00                | PASS    |
| GPRS1900 | 661     | 0   | 1    | 29.04                 | 26.96          | 33.00                | PASS    |
| GPRS1900 | 661     | 0   | 2    | 26.92                 | 24.84          | 33.00                | PASS    |
| GPRS1900 | 661     | 0   | 3    | 25.41                 | 23.33          | 33.00                | PASS    |
| GPRS1900 | 661     | 0   | 4    | 23.39                 | 21.31          | 33.00                | PASS    |
| GPRS1900 | 810     | 0   | 1    | 28.91                 | 26.83          | 33.00                | PASS    |
| GPRS1900 | 810     | 0   | 2    | 26.92                 | 24.84          | 33.00                | PASS    |
| GPRS1900 | 810     | 0   | 3    | 25.45                 | 23.37          | 33.00                | PASS    |
| GPRS1900 | 810     | 0   | 4    | 23.46                 | 21.38          | 33.00                | PASS    |

Remark: EIRP (dBm) = Conducted power (dBm) + Antenna Gain (dBi). (For GSM1900)

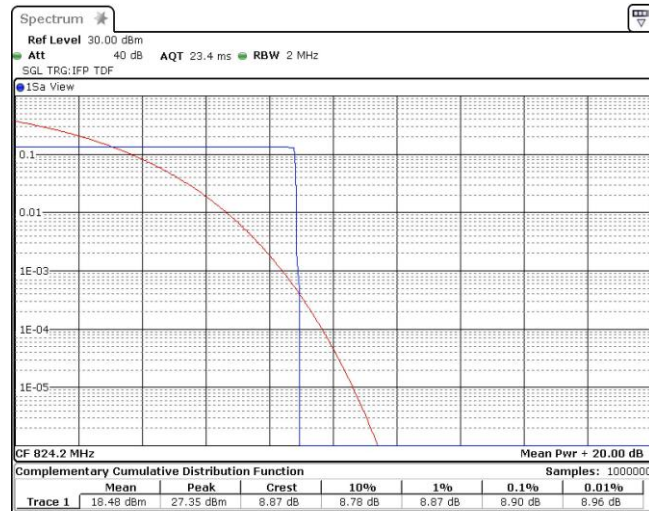
## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

| Band     | Channel | Result(dB) | Limit(dB) | Verdict |
|----------|---------|------------|-----------|---------|
| GSM850   | 128     | 8.9        | 13        | PASS    |
| GSM850   | 190     | 8.93       | 13        | PASS    |
| GSM850   | 251     | 9.74       | 13        | PASS    |
| GPRS850  | 128     | 9.48       | 13        | PASS    |
| GPRS850  | 190     | 8.9        | 13        | PASS    |
| GPRS850  | 251     | 8.93       | 13        | PASS    |
| GSM1900  | 512     | 8.96       | 13        | PASS    |
| GSM1900  | 661     | 9.8        | 13        | PASS    |
| GSM1900  | 810     | 8.96       | 13        | PASS    |
| GPRS1900 | 512     | 8.9        | 13        | PASS    |
| GPRS1900 | 661     | 8.96       | 13        | PASS    |
| GPRS1900 | 810     | 8.9        | 13        | PASS    |

## Test Graphs

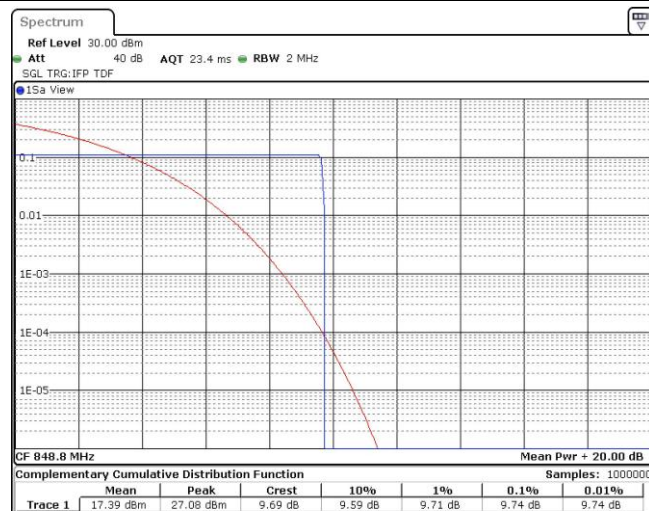
### GSM850-128-3



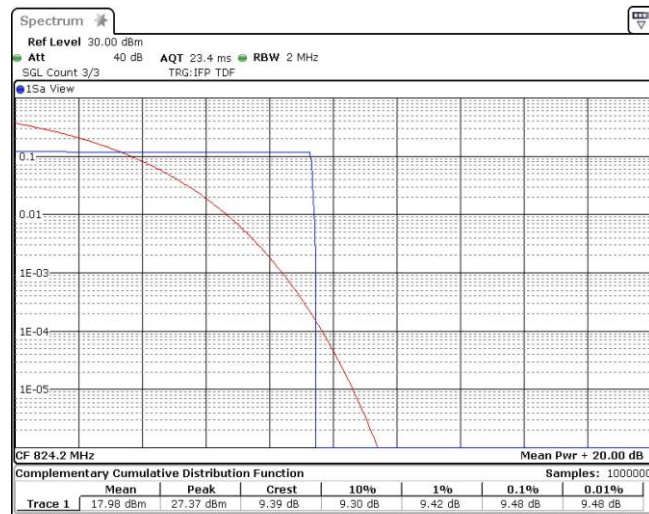
### GSM850-190-3



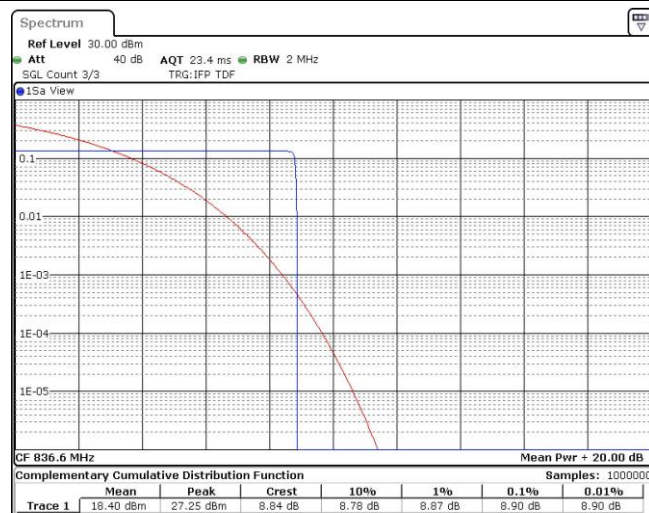
### GSM850-251-3



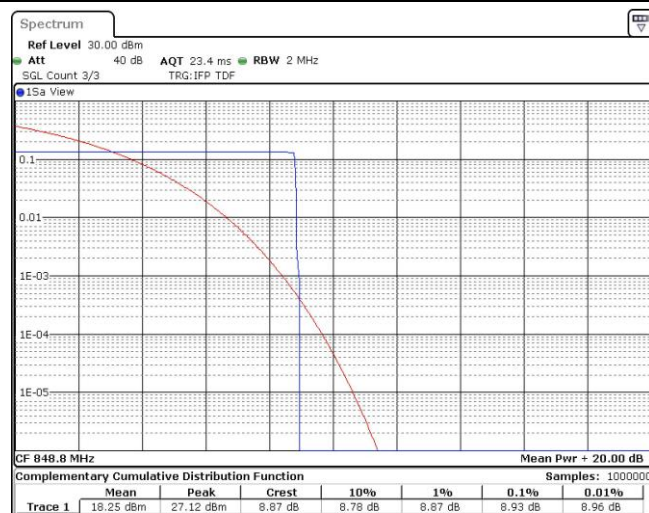
### GPRS850-128-3



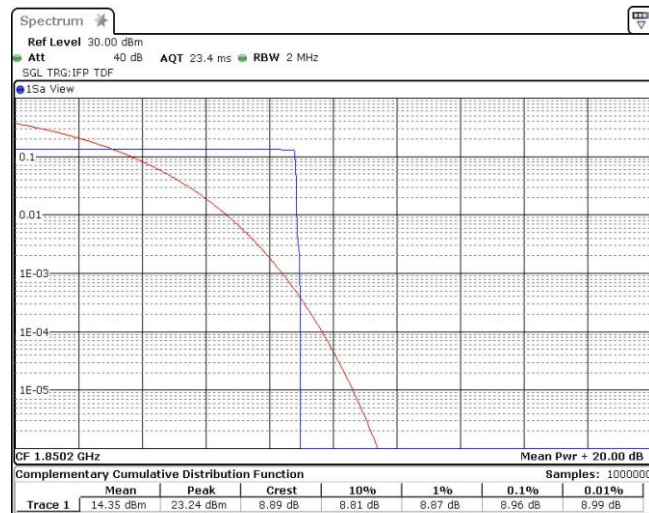
### GPRS850-190-3



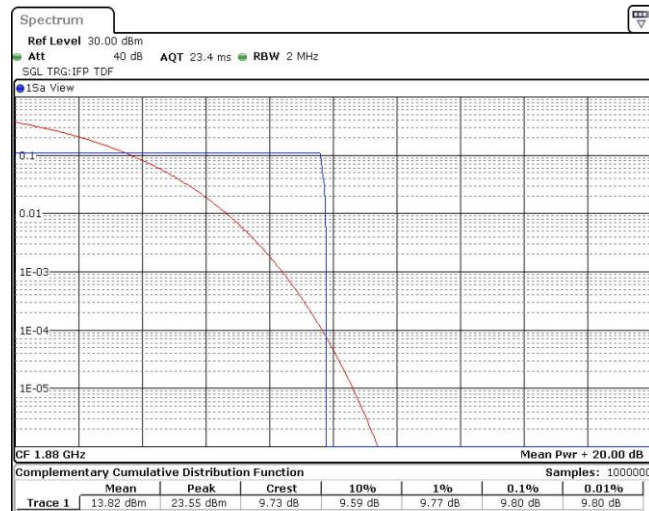
### GPRS850-251-3



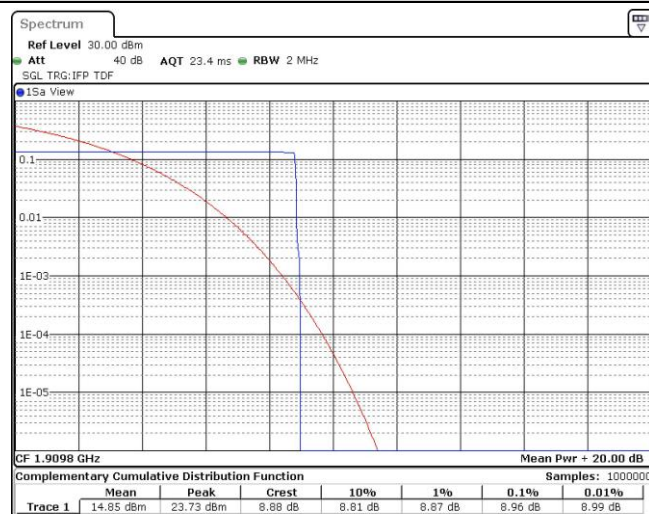
### GSM1900-512-0



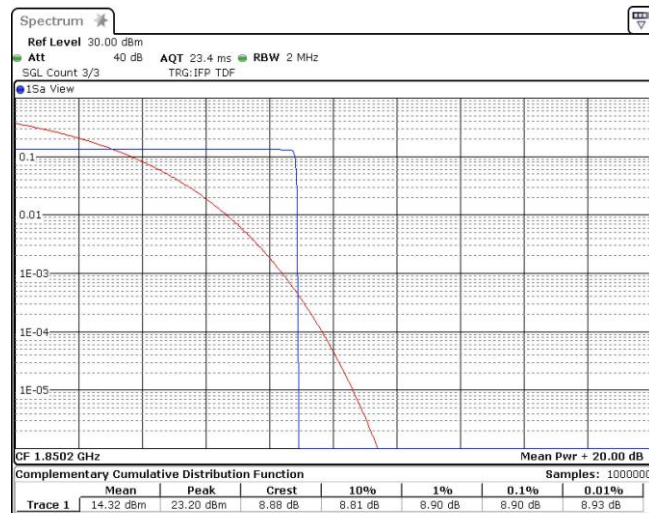
GSM1900-661-0



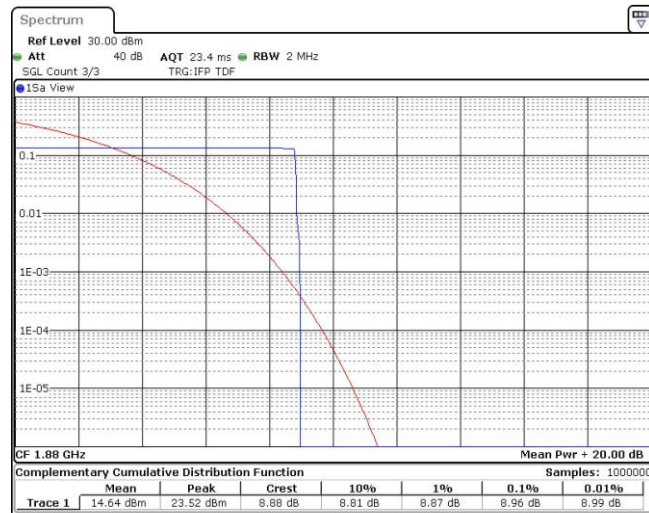
GSM1900-810-0



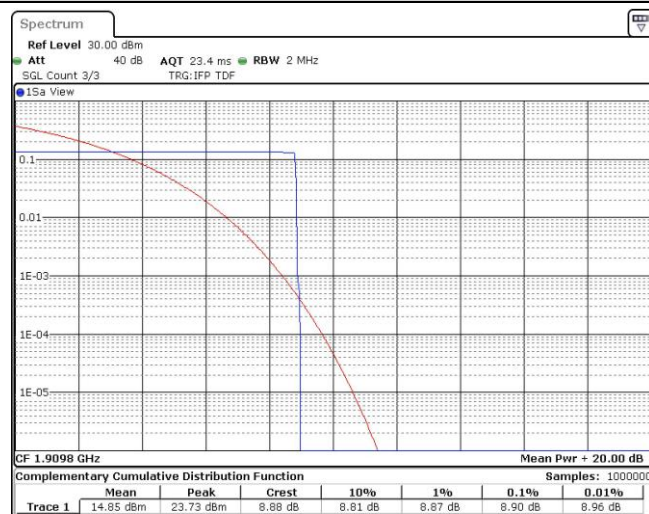
GPRS1900-512-0



GPRS1900-661-0



GPRS1900-810-0



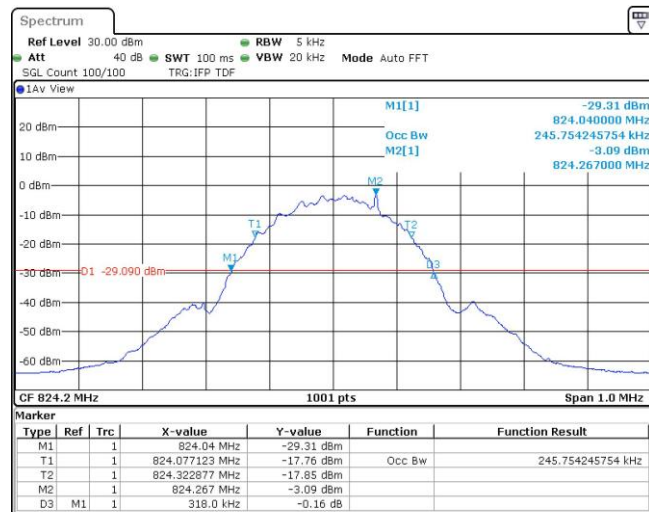
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

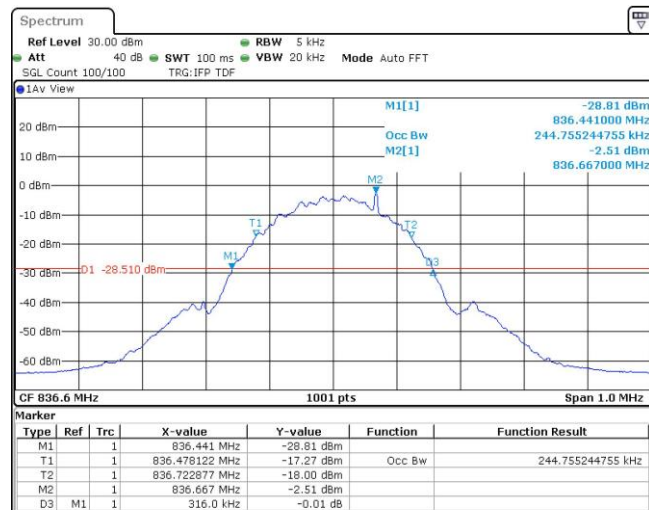
| Band     | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
|----------|---------|--------------------------|----------------------|-------------|---------|
| GSM850   | 128     | 0.246                    | 0.32                 | ---         | PASS    |
| GSM850   | 190     | 0.245                    | 0.32                 | ---         | PASS    |
| GSM850   | 251     | 0.247                    | 0.32                 | ---         | PASS    |
| GPRS850  | 128     | 0.245                    | 0.32                 | ---         | PASS    |
| GPRS850  | 190     | 0.245                    | 0.32                 | ---         | PASS    |
| GPRS850  | 251     | 0.245                    | 0.32                 | ---         | PASS    |
| GSM1900  | 512     | 0.247                    | 0.32                 | ---         | PASS    |
| GSM1900  | 661     | 0.247                    | 0.32                 | ---         | PASS    |
| GSM1900  | 810     | 0.247                    | 0.32                 | ---         | PASS    |
| GPRS1900 | 512     | 0.245                    | 0.32                 | ---         | PASS    |
| GPRS1900 | 661     | 0.245                    | 0.32                 | ---         | PASS    |
| GPRS1900 | 810     | 0.245                    | 0.32                 | ---         | PASS    |

## Test Graphs

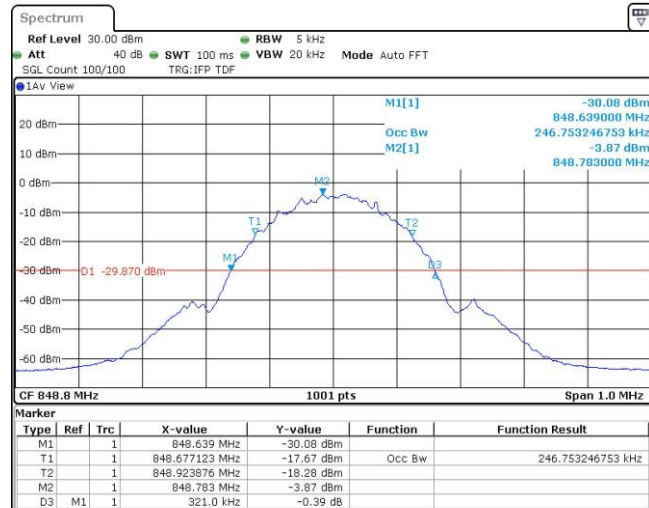
GSM850-128-3-0.32



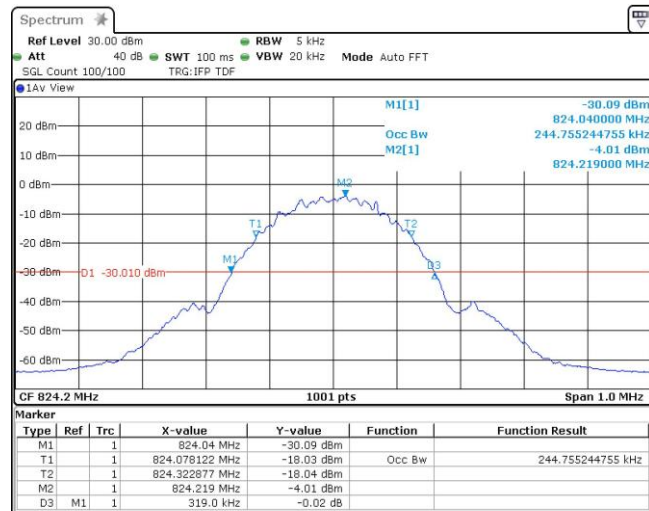
GSM850-190-3-0.32



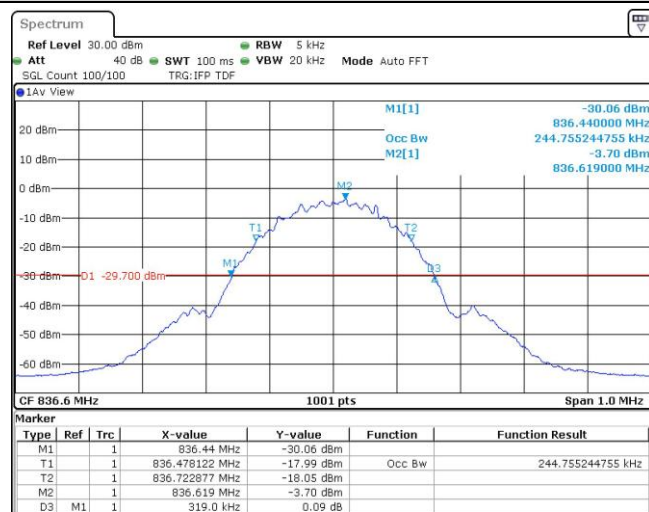
GSM850-251-3-0.32



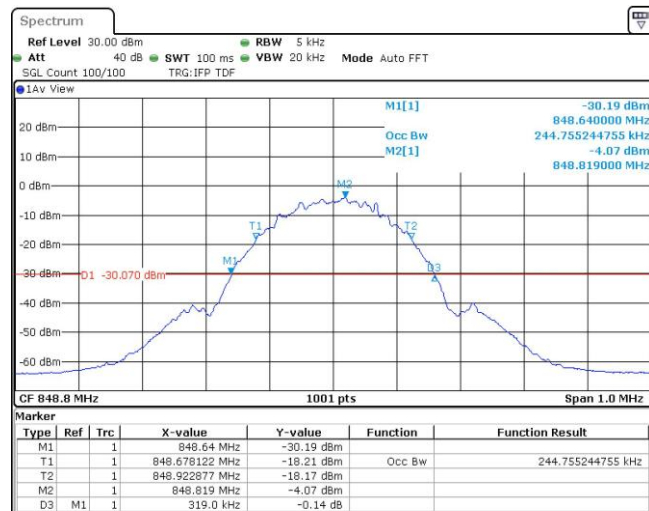
GPRS850-128-3-0.32



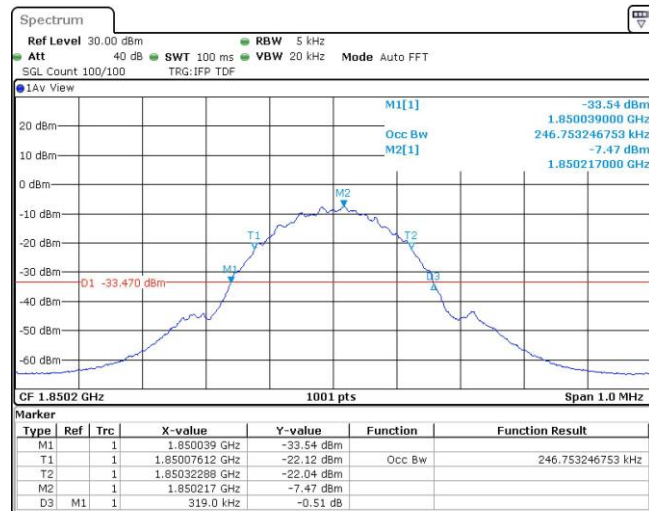
GPRS850-190-3-0.32



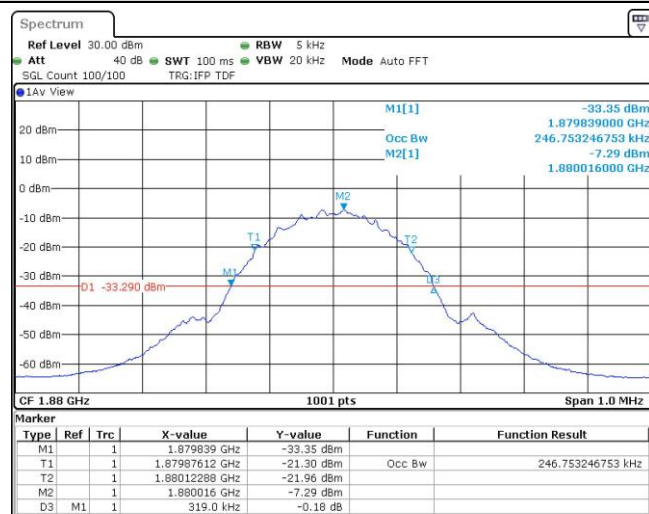
GPRS850-251-3-0.32



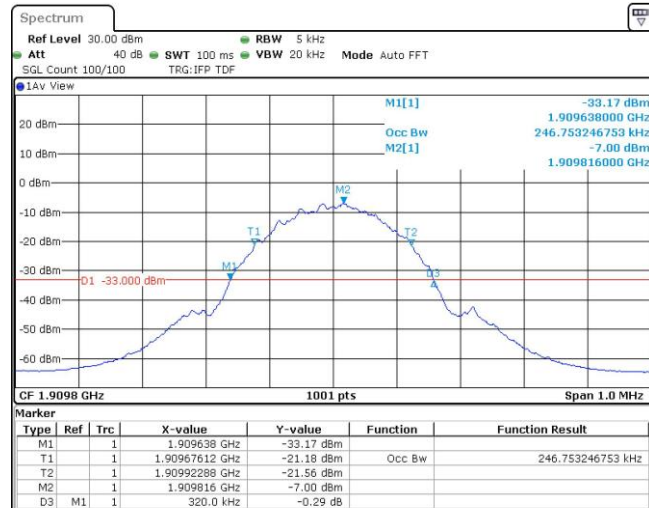
GSM1900-512-0-0.32



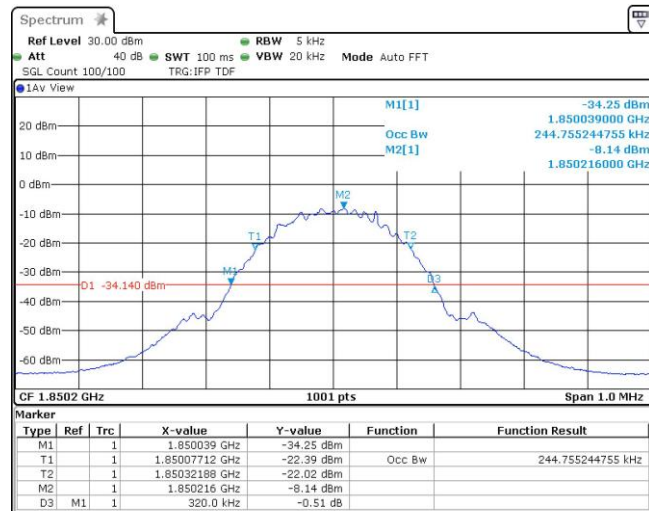
GSM1900-661-0-0.32



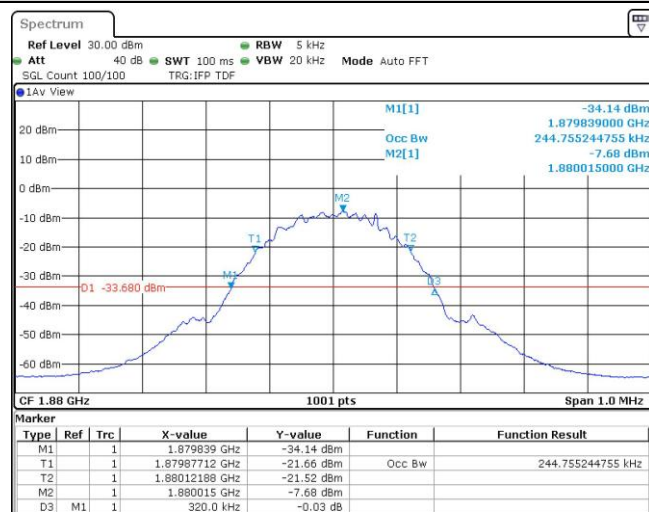
GSM1900-810-0-0.32



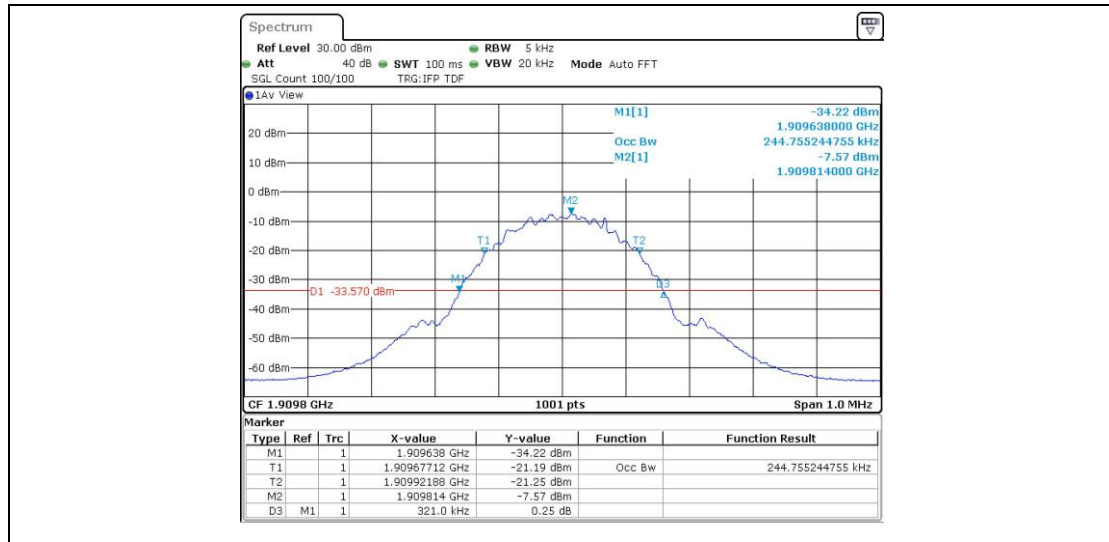
GPRS1900-512-0-0.32



GPRS1900-661-0-0.32



GPRS1900-810-0-0.32



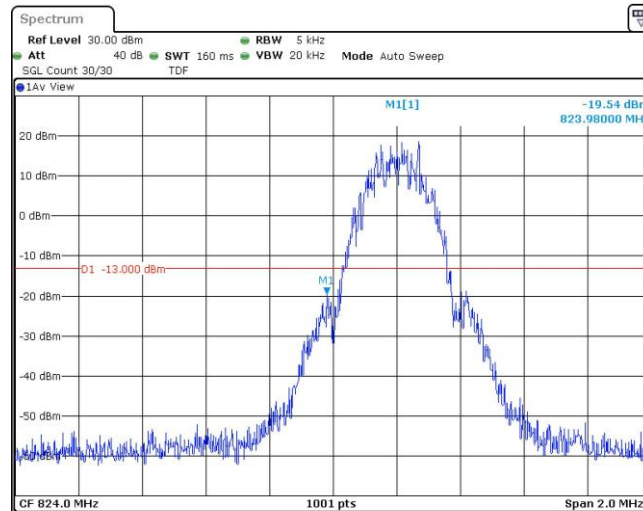
## Appendix D: Band Edge

### Test Result

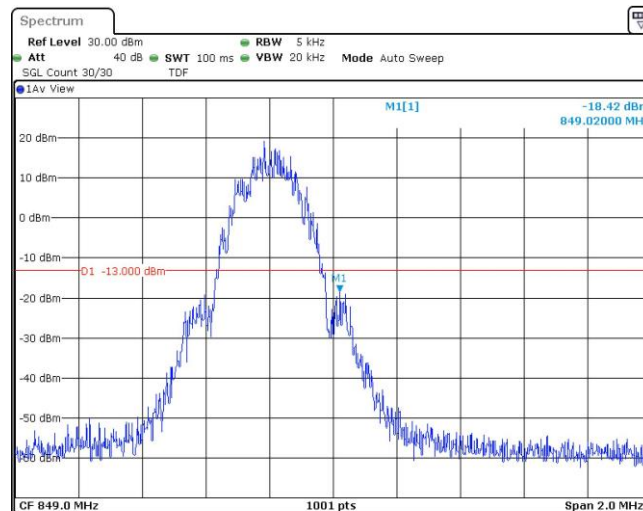
| Band     | Channel | Freq (MHz) | Result (dBm) | Limit(dBm) | Verdict |
|----------|---------|------------|--------------|------------|---------|
| GSM850   | 128     | 823.98     | -19.54       | -13        | PASS    |
| GSM850   | 251     | 849.02     | -18.42       | -13        | PASS    |
| GPRS850  | 128     | 823.98     | -17.93       | -13        | PASS    |
| GPRS850  | 251     | 849.02     | -18.55       | -13        | PASS    |
| GSM1900  | 512     | 1849.99    | -21.16       | -13        | PASS    |
| GSM1900  | 810     | 1910.02    | -20.41       | -13        | PASS    |
| GPRS1900 | 512     | 1849.98    | -23.06       | -13        | PASS    |
| GPRS1900 | 810     | 1910.02    | -20.67       | -13        | PASS    |

## Test Graphs

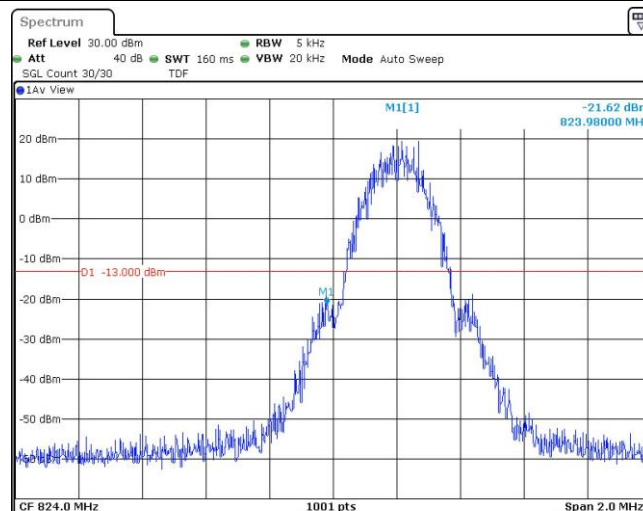
GSM850-128-3



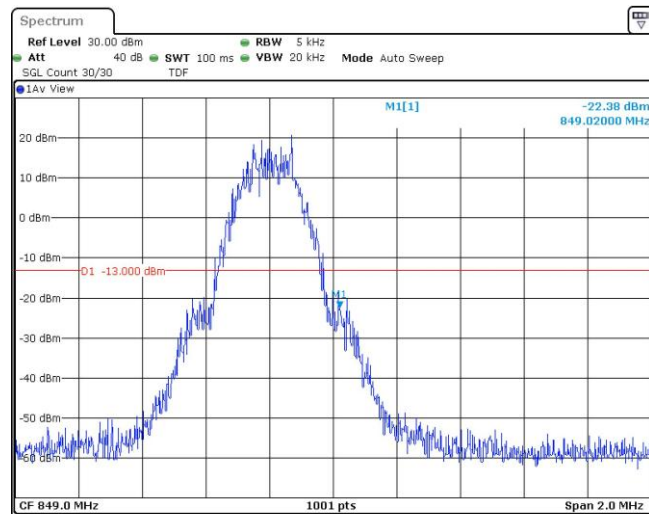
GSM850-251-3



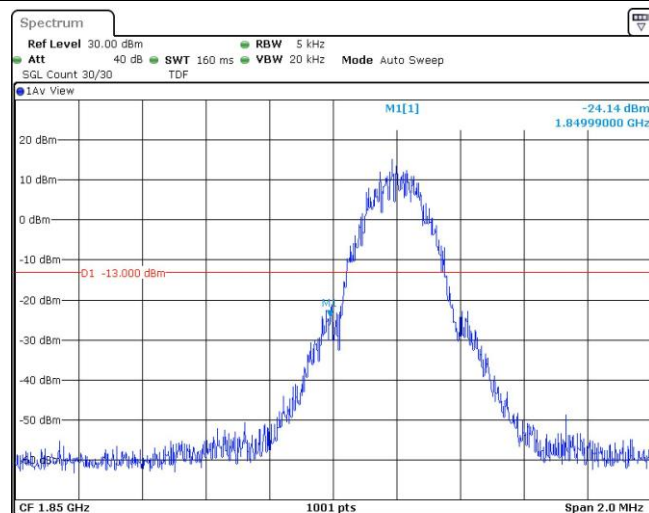
GPRS850-128-3



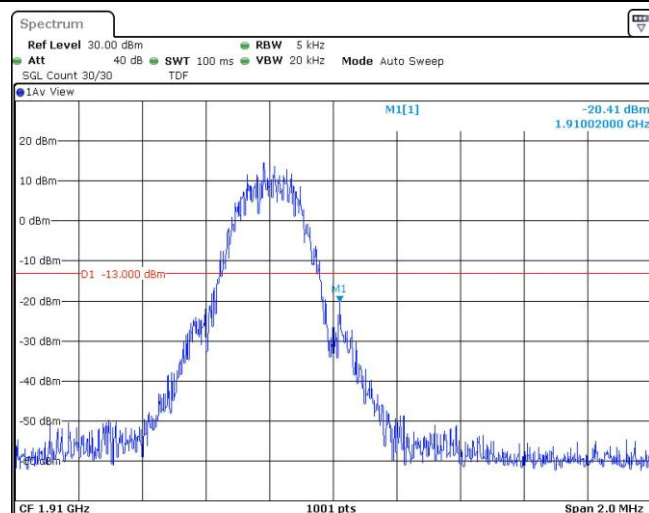
### GPRS850-251-3



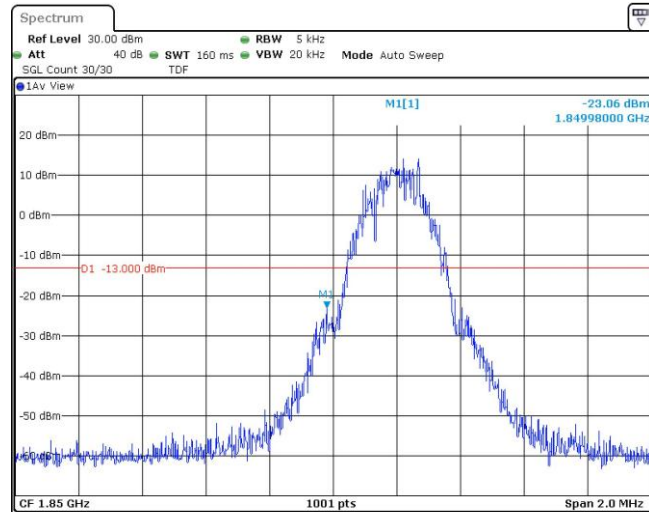
### GSM1900-512-0



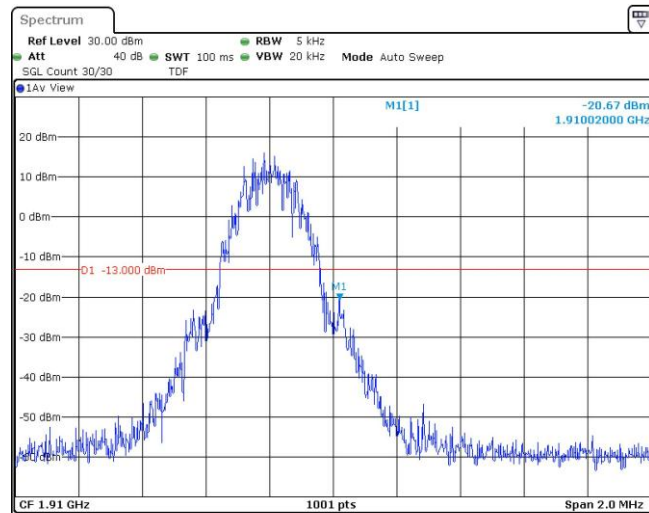
### GSM1900-810-0



### GPRS1900-512-0



### GPRS1900-810-0



## Appendix E: Conducted Spurious Emission

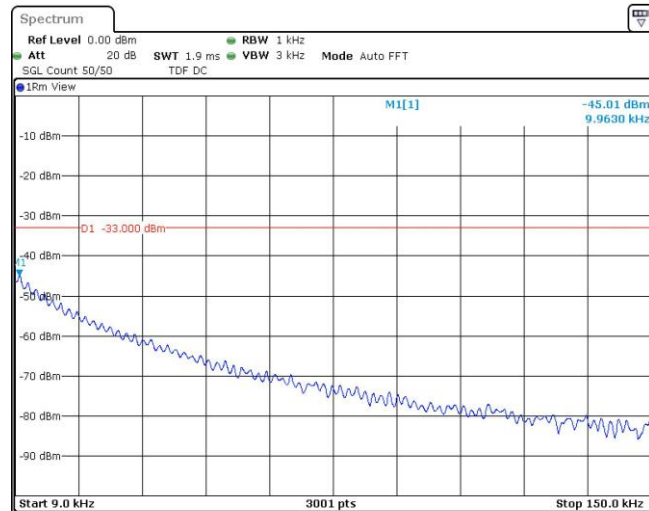
### Test Result

| Band    | Channel | Frequency Range(MHz) | Max.Freq. (MHz) | Result (dBm) | Limit (dBm) | Verdict |
|---------|---------|----------------------|-----------------|--------------|-------------|---------|
| GSM850  | 128     | 0.009~0.15MHz        | 0.01            | -45.01       | -33         | PASS    |
| GSM850  | 128     | 0.15~30MHz           | 27              | -51.34       | -13         | PASS    |
| GSM850  | 128     | 30~1000MHz           | 990.14          | -35.9        | -13         | PASS    |
| GSM850  | 128     | 1000~3000MHz         | 1697.61         | -37.51       | -13         | PASS    |
| GSM850  | 128     | 3000~10000MHz        | 6790.96         | -48.76       | -13         | PASS    |
| GSM850  | 190     | 0.009~0.15MHz        | 0.01            | -45.07       | -33         | PASS    |
| GSM850  | 190     | 0.15~30MHz           | 23.13           | -51.83       | -13         | PASS    |
| GSM850  | 190     | 30~1000MHz           | 983.09          | -35.91       | -13         | PASS    |
| GSM850  | 190     | 1000~3000MHz         | 1697.68         | -37.52       | -13         | PASS    |
| GSM850  | 190     | 3000~10000MHz        | 6789.32         | -53.66       | -13         | PASS    |
| GSM850  | 251     | 0.009~0.15MHz        | 0.01            | -45.09       | -33         | PASS    |
| GSM850  | 251     | 0.15~30MHz           | 22.99           | -51.31       | -13         | PASS    |
| GSM850  | 251     | 30~1000MHz           | 693.54          | -36.06       | -13         | PASS    |
| GSM850  | 251     | 1000~3000MHz         | 1697.34         | -38          | -13         | PASS    |
| GSM850  | 251     | 3000~10000MHz        | 6791.19         | -51.78       | -13         | PASS    |
| GPRS850 | 128     | 0.009~0.15MHz        | 0.01            | -45.12       | -33         | PASS    |
| GPRS850 | 128     | 0.15~30MHz           | 26.14           | -51.64       | -13         | PASS    |
| GPRS850 | 128     | 30~1000MHz           | 993.89          | -35.82       | -13         | PASS    |
| GPRS850 | 128     | 1000~3000MHz         | 1697.74         | -37.89       | -13         | PASS    |
| GPRS850 | 128     | 3000~10000MHz        | 6790.72         | -49.17       | -13         | PASS    |
| GPRS850 | 190     | 0.009~0.15MHz        | 0.01            | -45.07       | -33         | PASS    |
| GPRS850 | 190     | 0.15~30MHz           | 27.75           | -52.4        | -13         | PASS    |
| GPRS850 | 190     | 30~1000MHz           | 966.73          | -36.07       | -13         | PASS    |
| GPRS850 | 190     | 1000~3000MHz         | 1697.34         | -38.37       | -13         | PASS    |
| GPRS850 | 190     | 3000~10000MHz        | 6790.72         | -48.41       | -13         | PASS    |
| GPRS850 | 251     | 0.009~0.15MHz        | 0.01            | -45.19       | -33         | PASS    |
| GPRS850 | 251     | 0.15~30MHz           | 24.89           | -51.86       | -13         | PASS    |
| GPRS850 | 251     | 30~1000MHz           | 687.3           | -36.49       | -13         | PASS    |
| GPRS850 | 251     | 1000~3000MHz         | 1697.54         | -37.59       | -13         | PASS    |
| GPRS850 | 251     | 3000~10000MHz        | 6790.49         | -48.57       | -13         | PASS    |
| GSM1900 | 512     | 0.009~0.15MHz        | 0.01            | -67.79       | -43         | PASS    |
| GSM1900 | 512     | 0.15~30MHz           | 23.98           | -50.72       | -23         | PASS    |
| GSM1900 | 512     | 30~1000MHz           | 669.48          | -36.62       | -13         | PASS    |
| GSM1900 | 512     | 1000~3000MHz         | 2943.47         | -44.38       | -13         | PASS    |
| GSM1900 | 512     | 3000~10000MHz        | 5729.79         | -38.02       | -13         | PASS    |
| GSM1900 | 512     | 10000~18000MHz       | 17399.62        | -44.84       | -13         | PASS    |

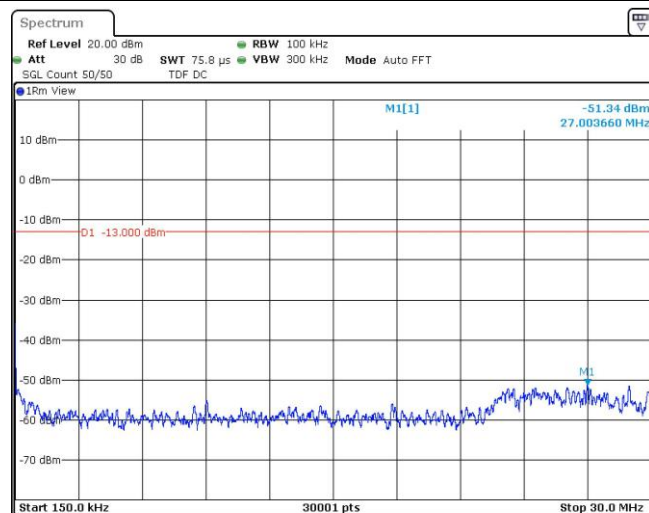
|          |     |                |          |        |     |      |
|----------|-----|----------------|----------|--------|-----|------|
| GSM1900  | 661 | 0.009~0.15MHz  | 0.01     | -67.67 | -43 | PASS |
| GSM1900  | 661 | 0.15~30MHz     | 23.2     | -51.24 | -23 | PASS |
| GSM1900  | 661 | 30~1000MHz     | 996.72   | -36.27 | -13 | PASS |
| GSM1900  | 661 | 1000~3000MHz   | 2949.6   | -44.4  | -13 | PASS |
| GSM1900  | 661 | 3000~10000MHz  | 3819.79  | -30.93 | -13 | PASS |
| GSM1900  | 661 | 10000~18000MHz | 17403.62 | -45.12 | -13 | PASS |
| GSM1900  | 810 | 0.009~0.15MHz  | 0.01     | -67.94 | -43 | PASS |
| GSM1900  | 810 | 0.15~30MHz     | 27.49    | -51.71 | -23 | PASS |
| GSM1900  | 810 | 30~1000MHz     | 999.01   | -36.17 | -13 | PASS |
| GSM1900  | 810 | 1000~3000MHz   | 2949.6   | -44.35 | -13 | PASS |
| GSM1900  | 810 | 3000~10000MHz  | 3818.62  | -40.59 | -13 | PASS |
| GSM1900  | 810 | 10000~18000MHz | 17400.15 | -44.79 | -13 | PASS |
| GPRS1900 | 512 | 0.009~0.15MHz  | 0.01     | -68.6  | -43 | PASS |
| GPRS1900 | 512 | 0.15~30MHz     | 22.77    | -51.23 | -23 | PASS |
| GPRS1900 | 512 | 30~1000MHz     | 993.84   | -36.34 | -13 | PASS |
| GPRS1900 | 512 | 1000~3000MHz   | 2935.6   | -44.44 | -13 | PASS |
| GPRS1900 | 512 | 3000~10000MHz  | 3819.32  | -31.22 | -13 | PASS |
| GPRS1900 | 512 | 10000~18000MHz | 17397.22 | -45.01 | -13 | PASS |
| GPRS1900 | 661 | 0.009~0.15MHz  | 0.01     | -68.16 | -43 | PASS |
| GPRS1900 | 661 | 0.15~30MHz     | 26.83    | -52    | -23 | PASS |
| GPRS1900 | 661 | 30~1000MHz     | 964.58   | -35.47 | -13 | PASS |
| GPRS1900 | 661 | 1000~3000MHz   | 2969.6   | -44.39 | -13 | PASS |
| GPRS1900 | 661 | 3000~10000MHz  | 3819.09  | -32.7  | -13 | PASS |
| GPRS1900 | 661 | 10000~18000MHz | 17405.75 | -44.9  | -13 | PASS |
| GPRS1900 | 810 | 0.009~0.15MHz  | 0.01     | -68.73 | -43 | PASS |
| GPRS1900 | 810 | 0.15~30MHz     | 25.08    | -52.16 | -23 | PASS |
| GPRS1900 | 810 | 30~1000MHz     | 986.99   | -35.61 | -13 | PASS |
| GPRS1900 | 810 | 1000~3000MHz   | 2941.67  | -44.36 | -13 | PASS |
| GPRS1900 | 810 | 3000~10000MHz  | 3819.56  | -30.35 | -13 | PASS |
| GPRS1900 | 810 | 10000~18000MHz | 17402.02 | -45    | -13 | PASS |

## Test Graphs

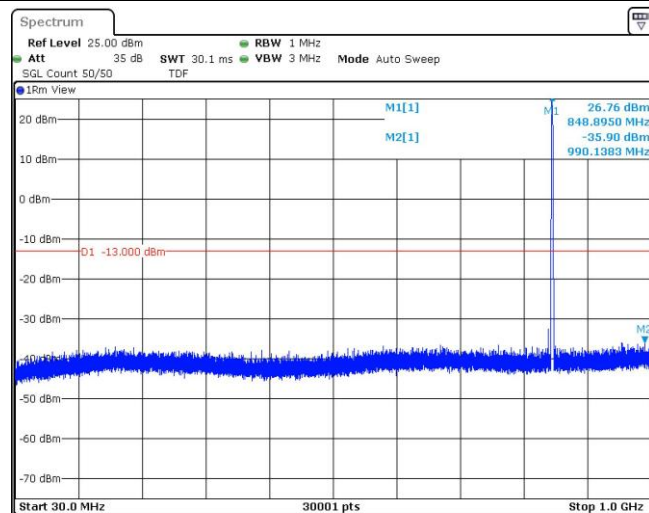
GSM850-128-3-0.009~0.15MHz



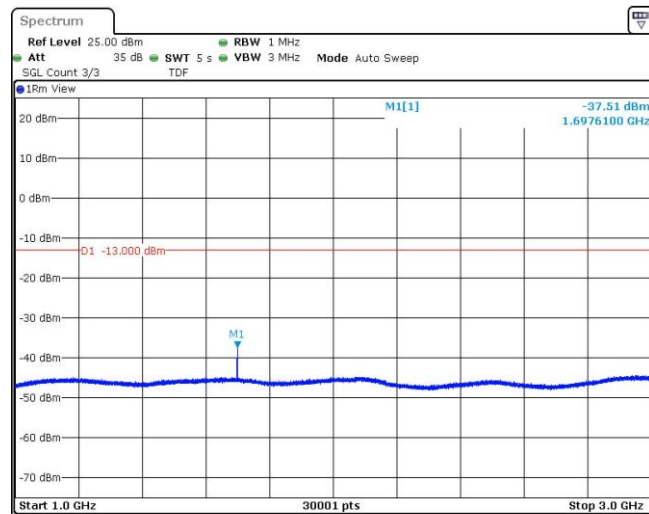
GSM850-128-3-0.15~30MHz



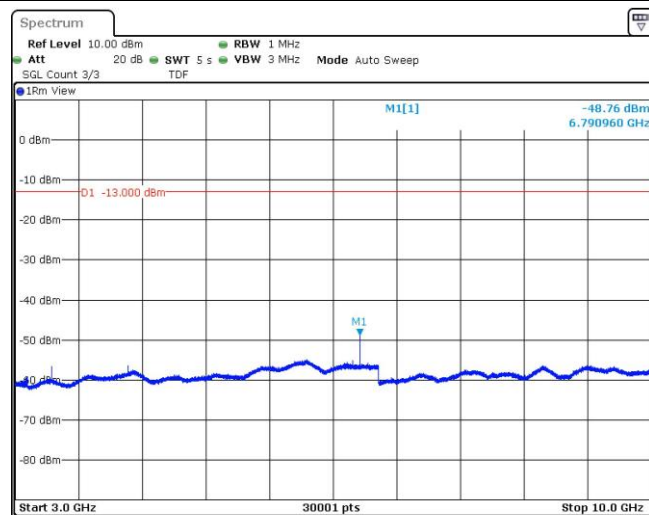
GSM850-128-3-30~1000MHz



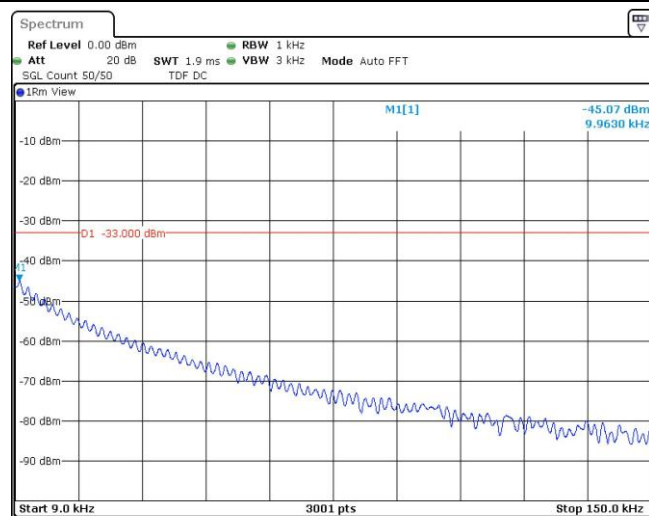
### GSM850-128-3-1000~3000MHz



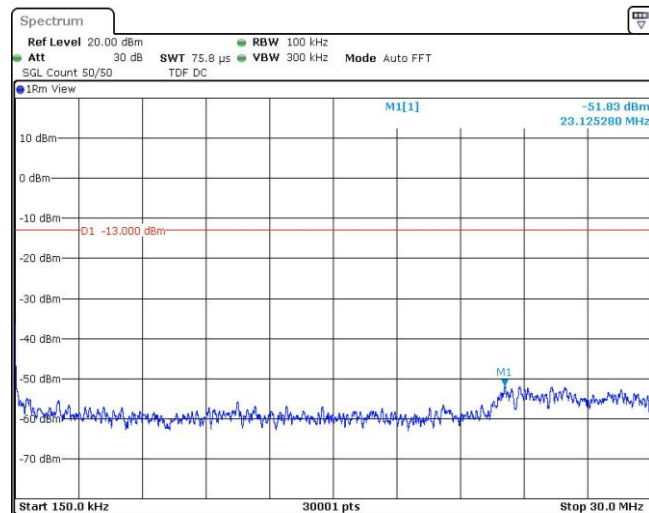
### GSM850-128-3-3000~10000MHz



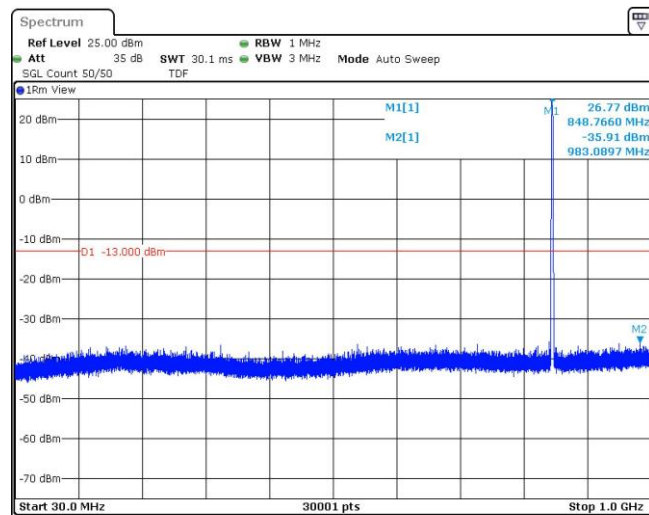
### GSM850-190-3-0.009~0.15MHz



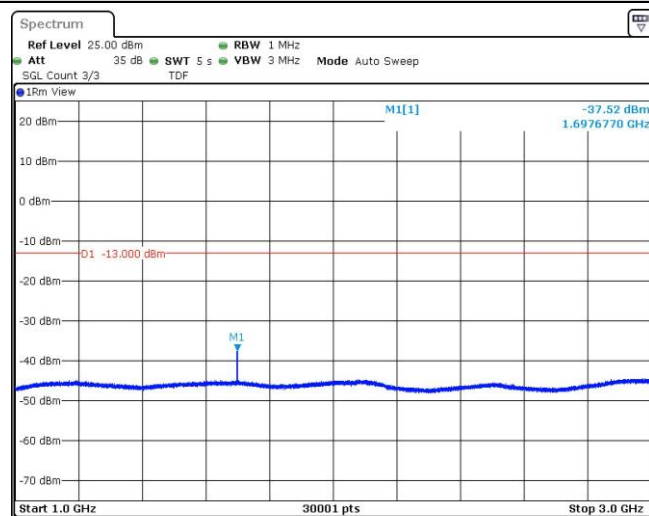
### GSM850-190-3-0.15~30MHz



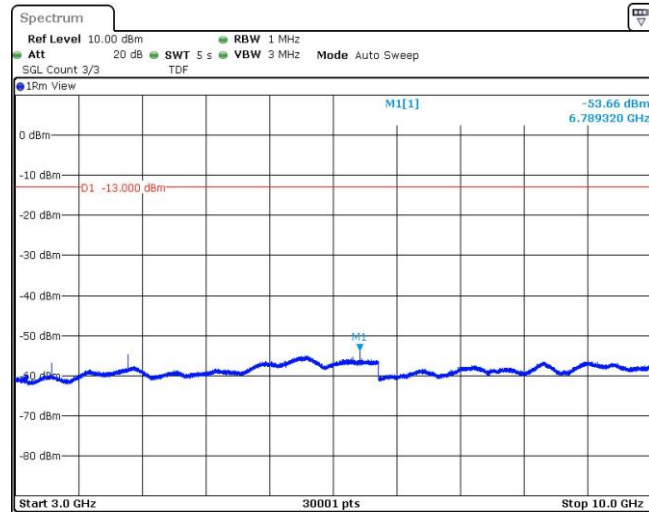
GSM850-190-3-30~1000MHz



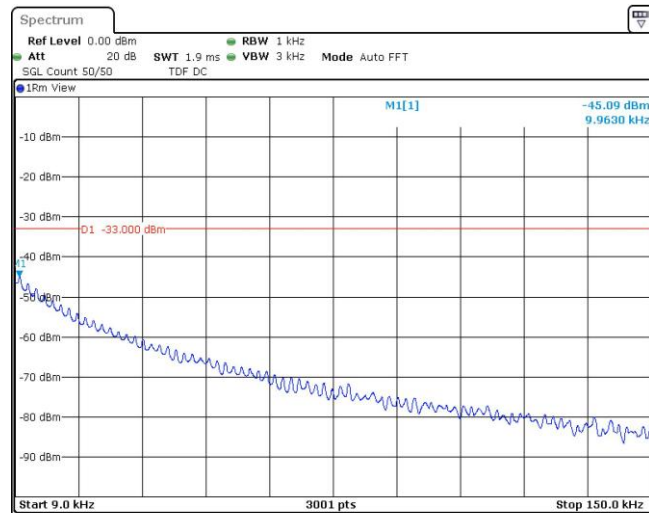
GSM850-190-3-1000~3000MHz



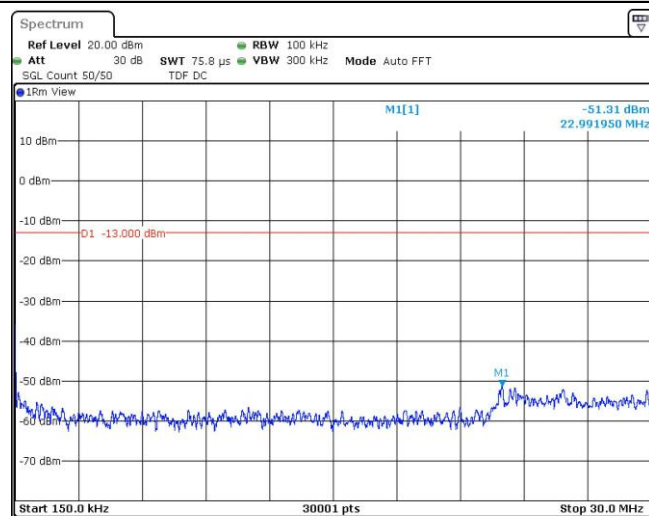
GSM850-190-3-3000~10000MHz



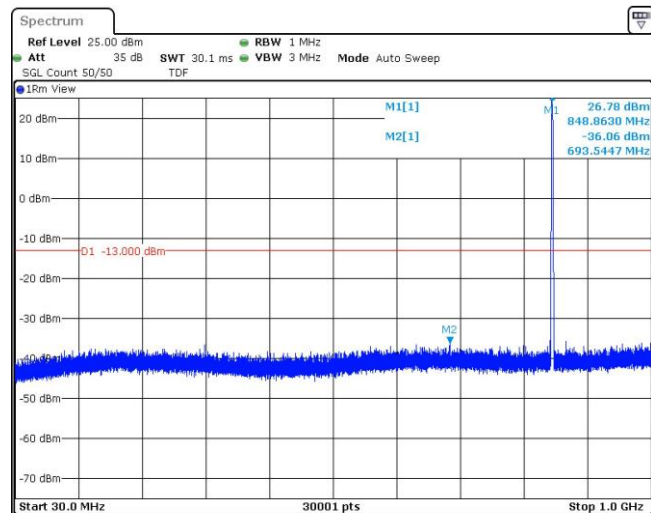
GSM850-251-3-0.009~0.15MHz



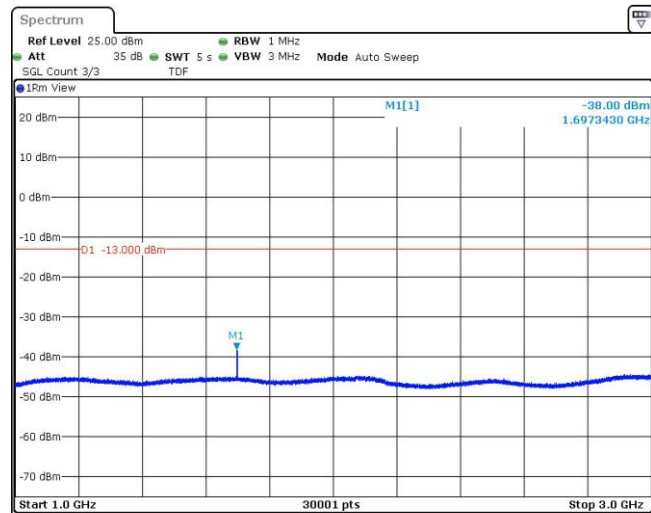
GSM850-251-3-0.15~30MHz



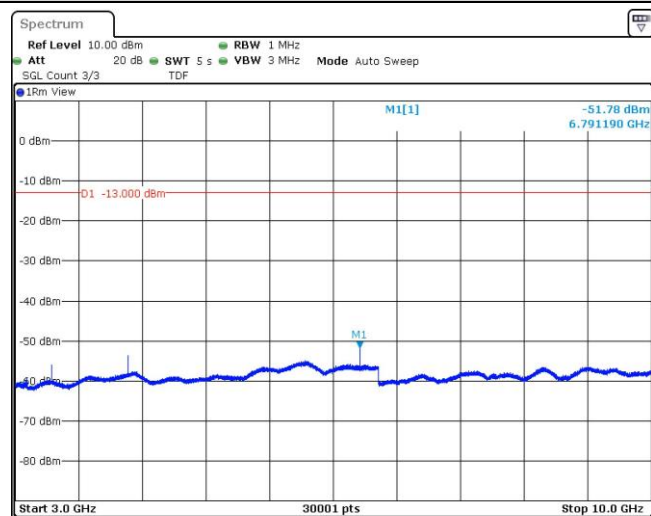
GSM850-251-3-30~1000MHz



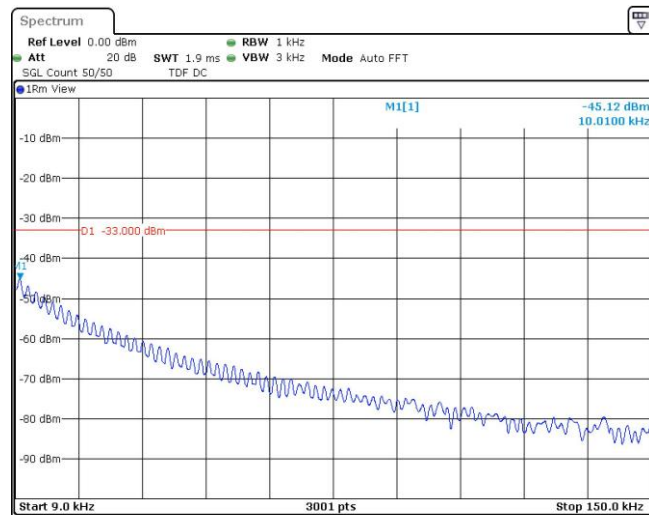
GSM850-251-3-1000~3000MHz



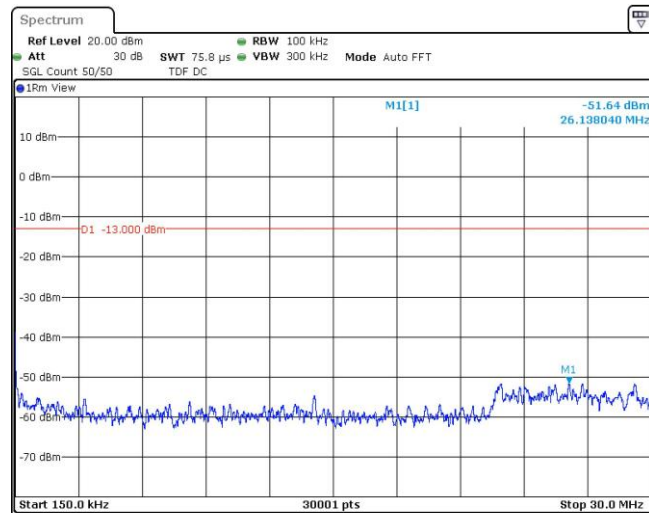
GSM850-251-3-3000~10000MHz



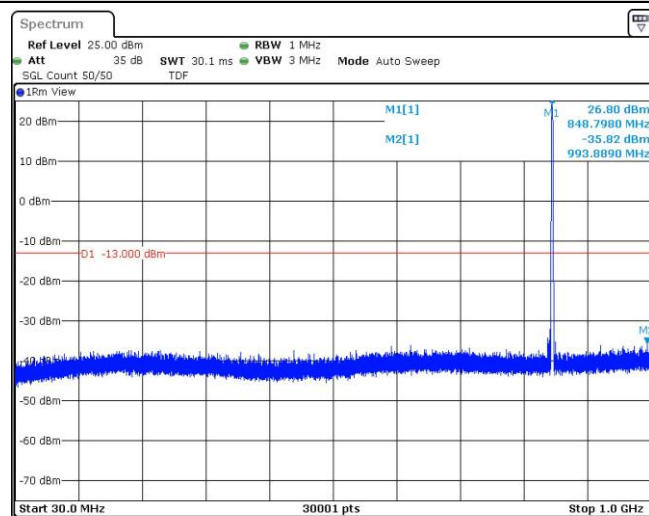
GPRS850-128-3-0.009~0.15MHz



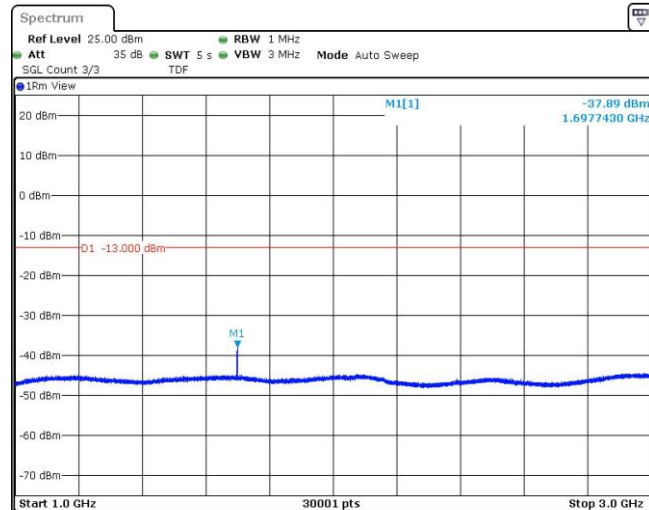
GPRS850-128-3-0.15~30MHz



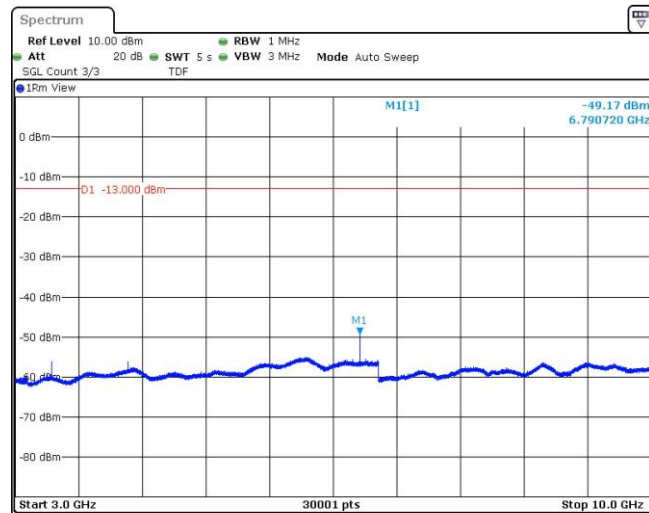
GPRS850-128-3-30~1000MHz



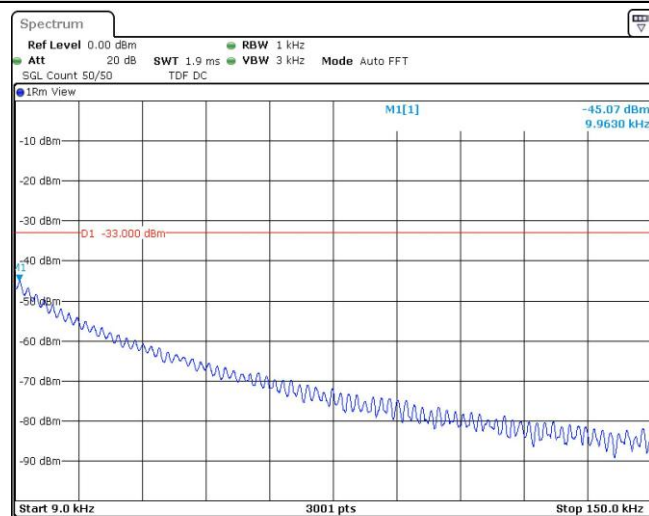
GPRS850-128-3-1000~3000MHz



GPRS850-128-3-3000~10000MHz



GPRS850-190-3-0.009~0.15MHz



GPRS850-190-3-0.15~30MHz