

## APPENDIX REPORT

|                 |                 |                     |              |
|-----------------|-----------------|---------------------|--------------|
| Project No.     | SHT2112096501EW | Radio Specification | GSM          |
| Test sample No. | YPHT21120965003 | Model No.           | Satelital Q  |
| Start test date | 2022/1/5        | Finish date         | 2022/1/5     |
| Temperature     | 23.1℃           | Humidity            | 36%          |
| Test Engineer   | Tiancheng.Huang | Auditor             | Xiaodong Zhe |

| Appendix clause | Test item                              | Result |
|-----------------|----------------------------------------|--------|
| A               | Conducted Output Power                 | PASS   |
| B               | Peak-to-Average Ratio                  | PASS   |
| C               | 26 dB Bandwidth and Occupied Bandwidth | PASS   |
| D               | Band edge                              | PASS   |
| E               | Conducted Spurious Emission            | PASS   |
| F               | Frequency Stability                    | PASS   |
| G               | ERP and EIRP                           | PASS   |

## 8.1 Appendix A: Conducted Output Power

### Test Result

| Band    | Channel | PCL | Power(dBm) | Limit(dBm) | Verdict |
|---------|---------|-----|------------|------------|---------|
| GSM850  | 128     | 5   | 33.24      | 38.5       | PASS    |
| GSM850  | 190     | 5   | 33.29      | 38.5       | PASS    |
| GSM850  | 251     | 5   | 32.98      | 38.5       | PASS    |
| GSM1900 | 512     | 0   | 29.76      | 33         | PASS    |
| GSM1900 | 661     | 0   | 29.71      | 33         | PASS    |
| GSM1900 | 810     | 0   | 29.26      | 33         | PASS    |

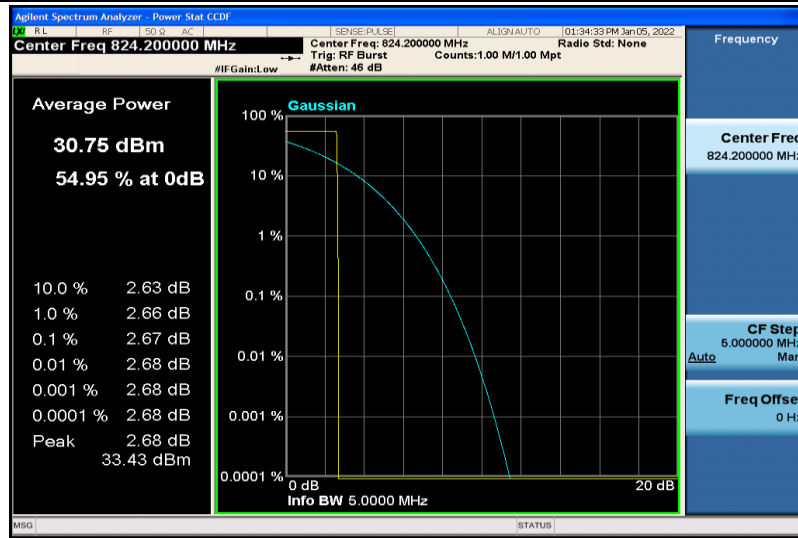
| Band     | Channel | PCL | Slot | Power(dBm) | Limit(dBm) | Verdict |
|----------|---------|-----|------|------------|------------|---------|
| GPRS850  | 128     | 5   | 1    | 33.20      | 38.5       | PASS    |
| GPRS850  | 128     | 5   | 2    | 32.60      | 38.5       | PASS    |
| GPRS850  | 128     | 5   | 3    | 31.13      | 38.5       | PASS    |
| GPRS850  | 128     | 5   | 4    | 30.07      | 38.5       | PASS    |
| GPRS850  | 190     | 5   | 1    | 32.89      | 38.5       | PASS    |
| GPRS850  | 190     | 5   | 2    | 32.51      | 38.5       | PASS    |
| GPRS850  | 190     | 5   | 3    | 31.22      | 38.5       | PASS    |
| GPRS850  | 190     | 5   | 4    | 30.00      | 38.5       | PASS    |
| GPRS850  | 251     | 5   | 1    | 32.54      | 38.5       | PASS    |
| GPRS850  | 251     | 5   | 2    | 32.18      | 38.5       | PASS    |
| GPRS850  | 251     | 5   | 3    | 30.71      | 38.5       | PASS    |
| GPRS850  | 251     | 5   | 4    | 29.60      | 38.5       | PASS    |
| GPRS1900 | 512     | 0   | 1    | 29.81      | 33         | PASS    |
| GPRS1900 | 512     | 0   | 2    | 29.27      | 33         | PASS    |
| GPRS1900 | 512     | 0   | 3    | 27.75      | 33         | PASS    |
| GPRS1900 | 512     | 0   | 4    | 26.40      | 33         | PASS    |
| GPRS1900 | 661     | 0   | 1    | 29.49      | 33         | PASS    |
| GPRS1900 | 661     | 0   | 2    | 29.13      | 33         | PASS    |
| GPRS1900 | 661     | 0   | 3    | 27.62      | 33         | PASS    |
| GPRS1900 | 661     | 0   | 4    | 26.21      | 33         | PASS    |
| GPRS1900 | 810     | 0   | 1    | 28.98      | 33         | PASS    |
| GPRS1900 | 810     | 0   | 2    | 28.55      | 33         | PASS    |
| GPRS1900 | 810     | 0   | 3    | 26.83      | 33         | PASS    |
| GPRS1900 | 810     | 0   | 4    | 25.35      | 33         | PASS    |

## 8.2 Appendix B: Peak-to-Average Ratio

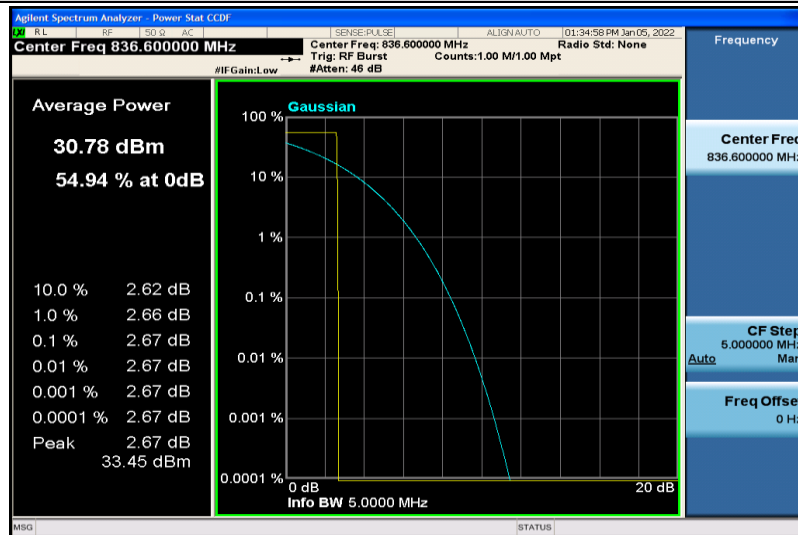
### Test Result

| Band     | Channel | Peak-to-Average Ratio(dB) | Limit(dBm) | Verdict |
|----------|---------|---------------------------|------------|---------|
| GSM850   | 128     | 2.67                      | 13         | PASS    |
| GSM850   | 190     | 2.67                      | 13         | PASS    |
| GSM850   | 251     | 2.67                      | 13         | PASS    |
| GPRS850  | 128     | 2.67                      | 13         | PASS    |
| GPRS850  | 190     | 2.67                      | 13         | PASS    |
| GPRS850  | 251     | 2.67                      | 13         | PASS    |
| GSM1900  | 512     | 2.65                      | 13         | PASS    |
| GSM1900  | 661     | 2.66                      | 13         | PASS    |
| GSM1900  | 810     | 2.66                      | 13         | PASS    |
| GPRS1900 | 512     | 2.65                      | 13         | PASS    |
| GPRS1900 | 661     | 2.66                      | 13         | PASS    |
| GPRS1900 | 810     | 2.65                      | 13         | PASS    |

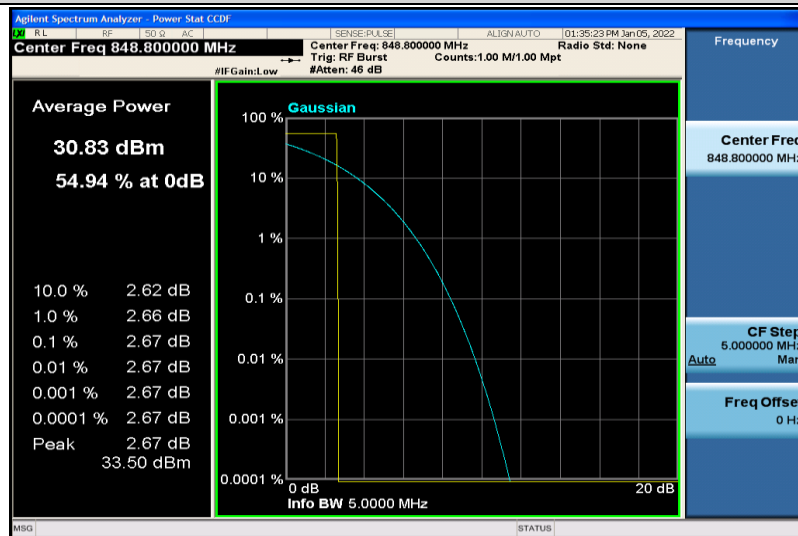
## Test Graphs



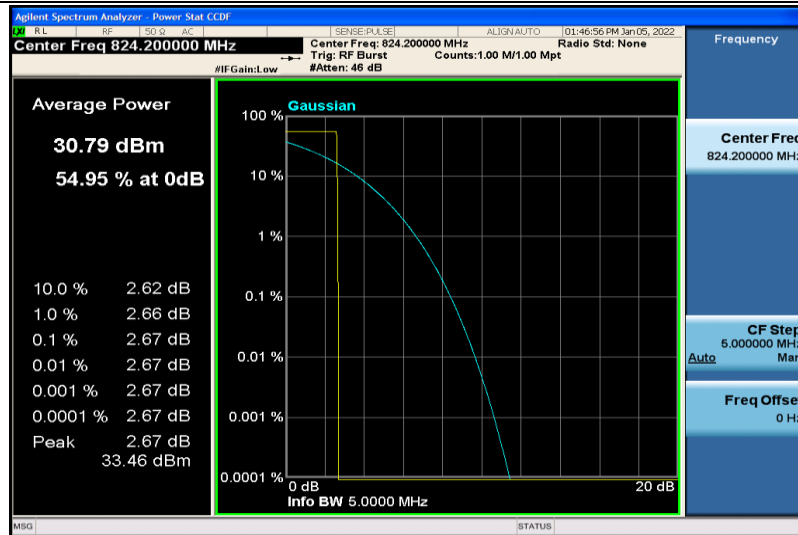
GSM850-128



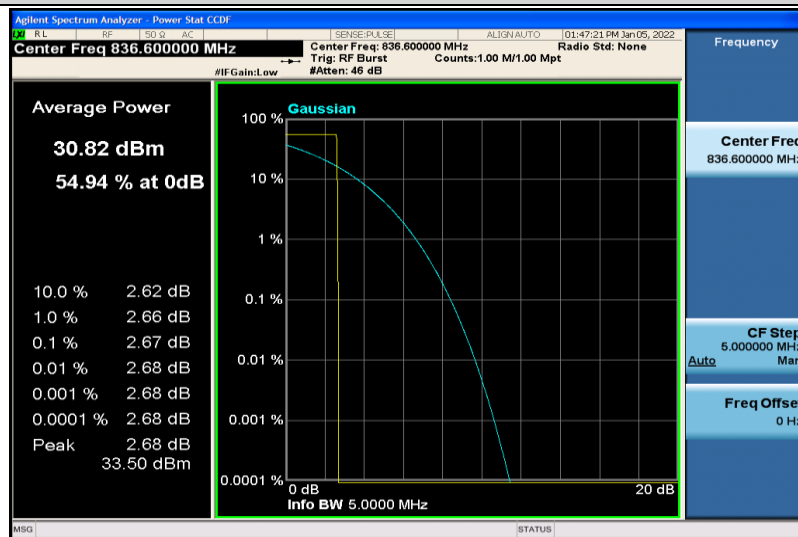
GSM850-190



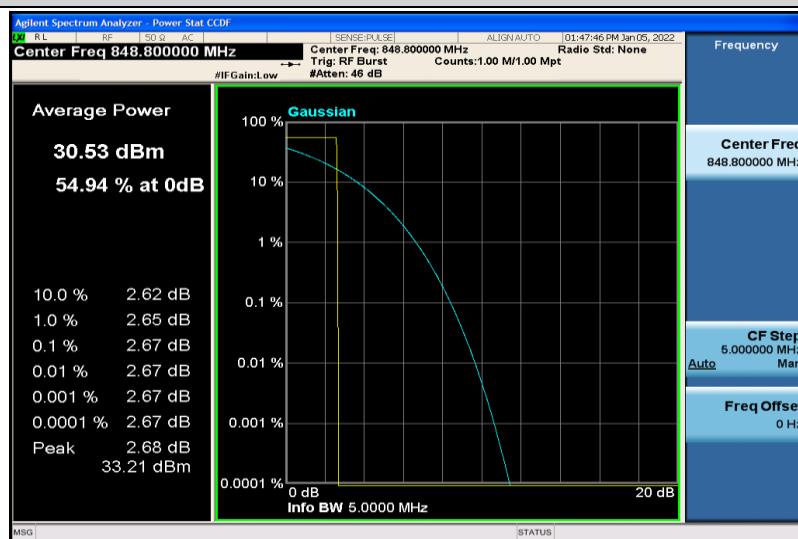
GSM850-251



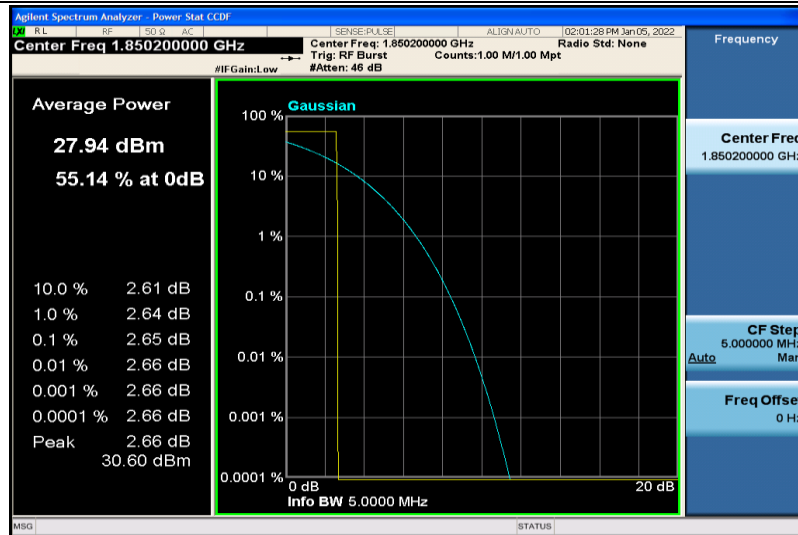
GPRS850-128



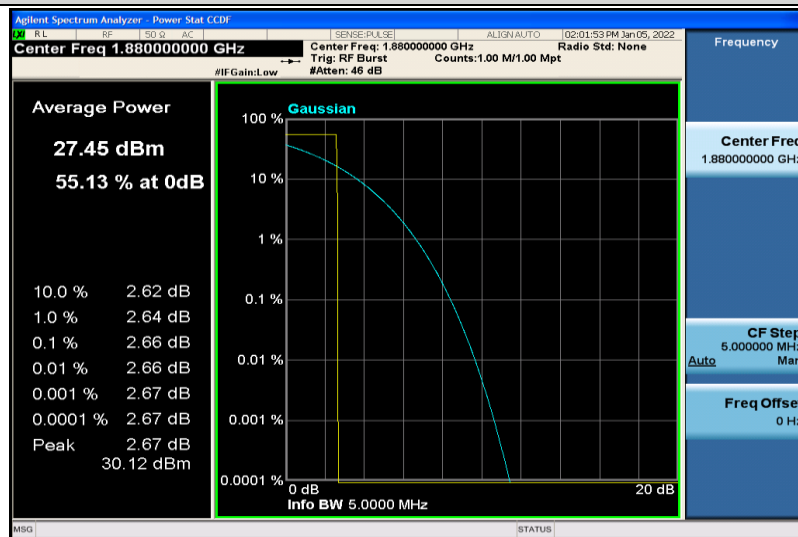
GPRS850-190



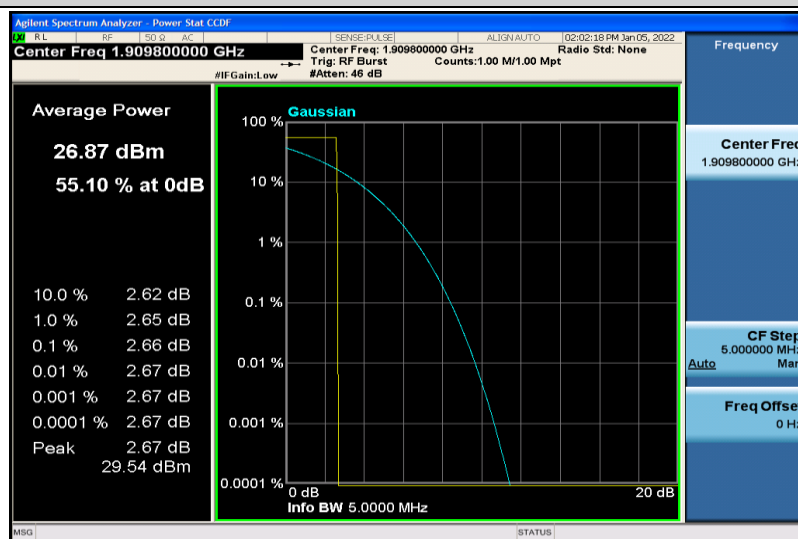
GPRS850-251



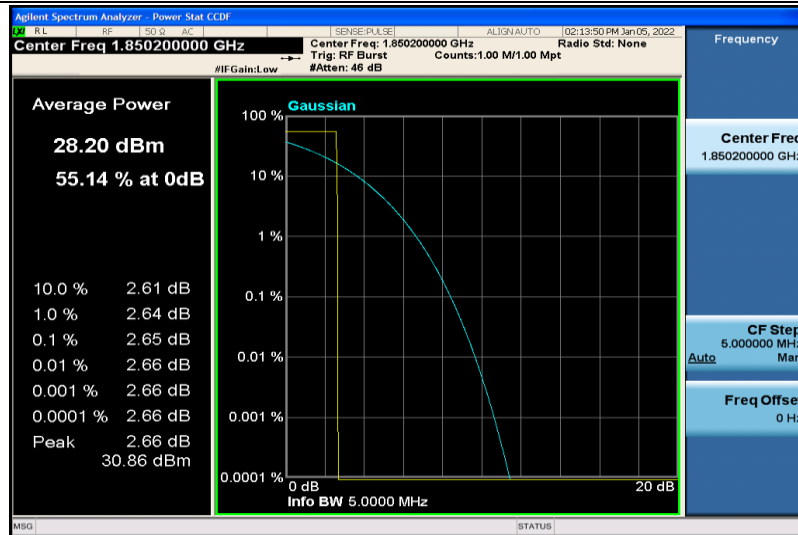
GSM1900-512



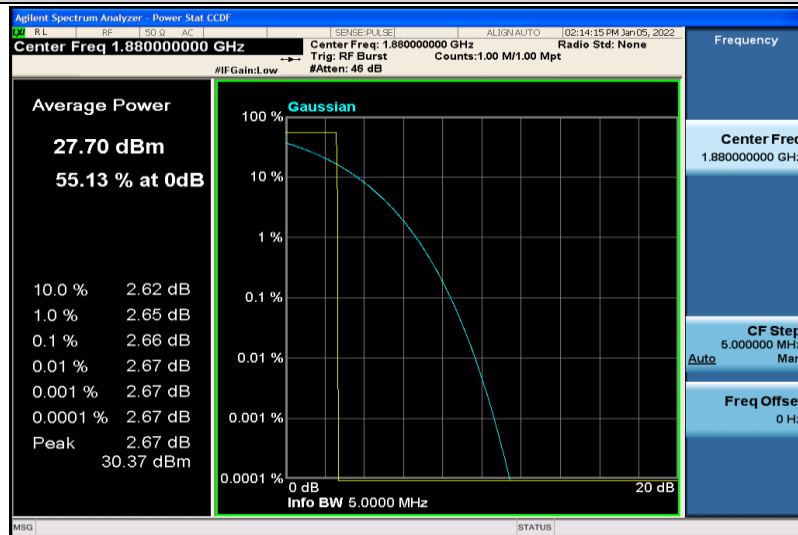
GSM1900-661



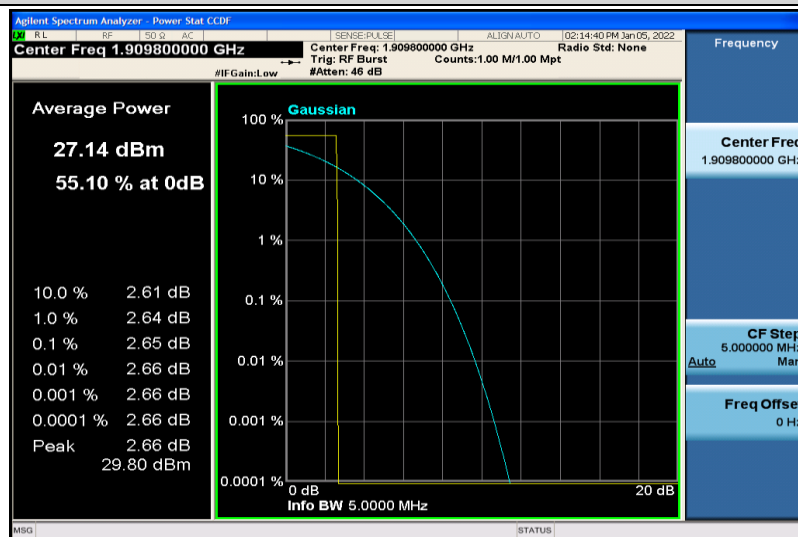
GSM1900-810



GPRS1900-512



GPRS1900-661



GPRS1900-810

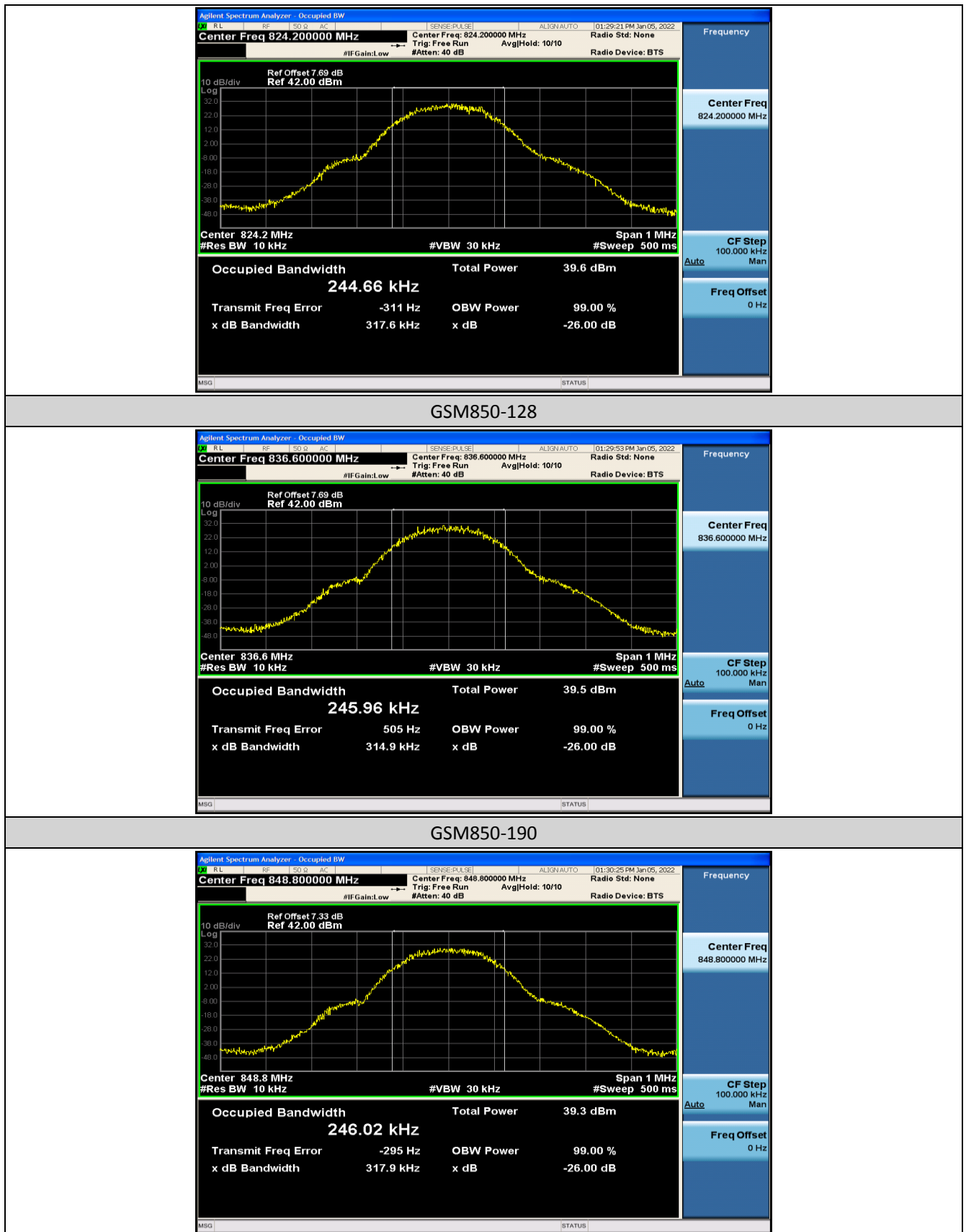


### 8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

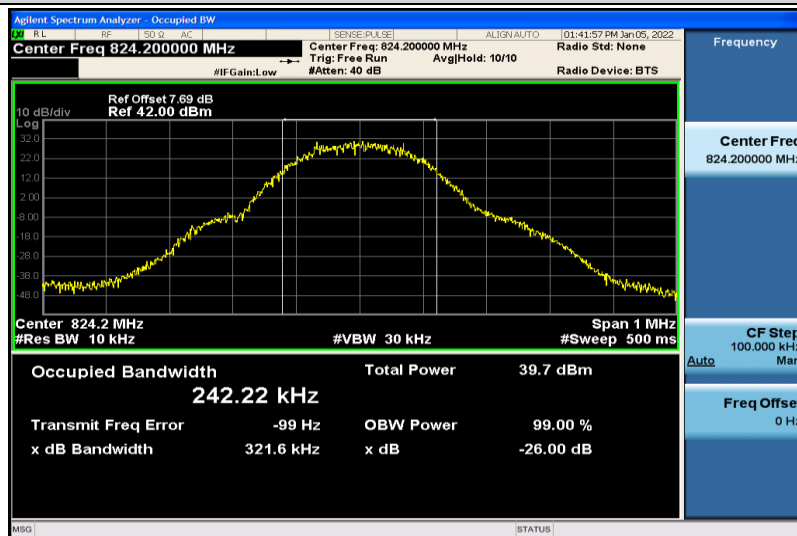
#### Test Result

| Band     | Channel | Occupied Bandwidth<br>(kHz) | 26dB Bandwidth<br>(kHz) | Limit(kHz) | Verdict |
|----------|---------|-----------------------------|-------------------------|------------|---------|
| GSM850   | 128     | 244.66                      | 317.6                   | ---        | PASS    |
| GSM850   | 190     | 245.96                      | 314.9                   | ---        | PASS    |
| GSM850   | 251     | 246.02                      | 317.9                   | ---        | PASS    |
| GPRS850  | 128     | 242.22                      | 321.6                   | ---        | PASS    |
| GPRS850  | 190     | 243.19                      | 312.2                   | ---        | PASS    |
| GPRS850  | 251     | 245.33                      | 314.1                   | ---        | PASS    |
| GSM1900  | 512     | 245.18                      | 320.8                   | ---        | PASS    |
| GSM1900  | 661     | 244.19                      | 315.7                   | ---        | PASS    |
| GSM1900  | 810     | 245.69                      | 316.9                   | ---        | PASS    |
| GPRS1900 | 512     | 243.99                      | 316.8                   | ---        | PASS    |
| GPRS1900 | 661     | 245.30                      | 316.9                   | ---        | PASS    |
| GPRS1900 | 810     | 246.06                      | 320.7                   | ---        | PASS    |

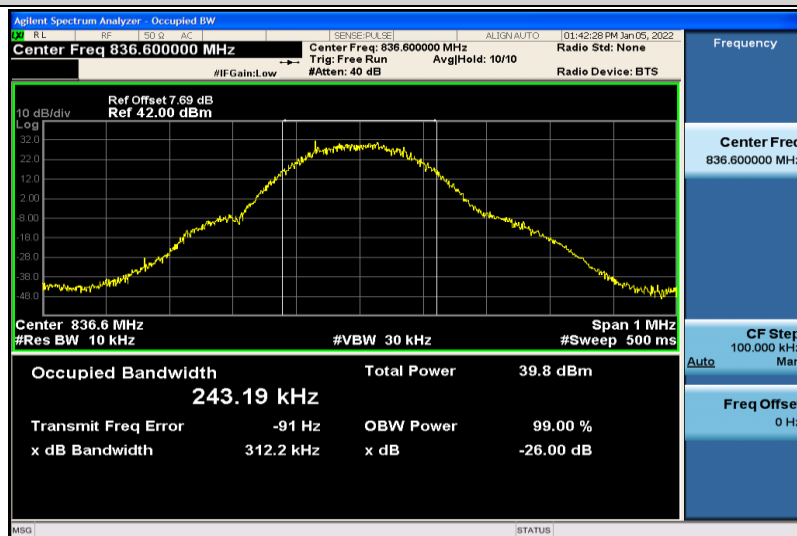
## Test Graphs



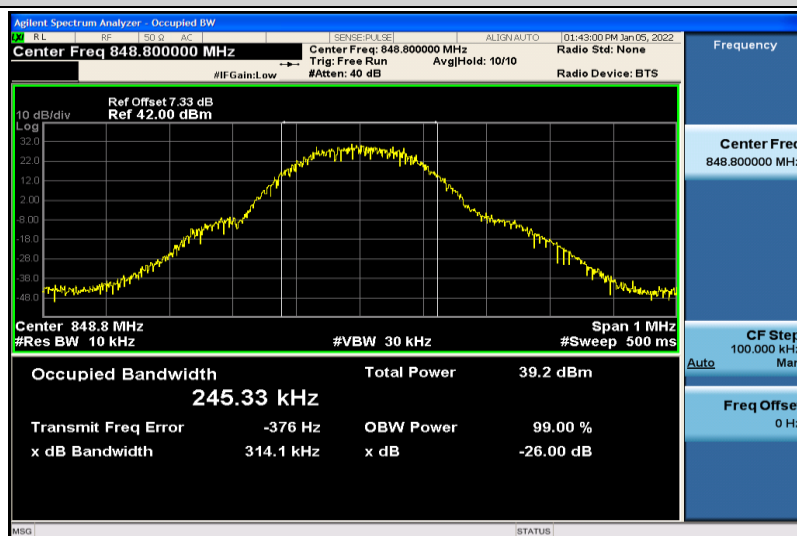
## GSM850-251



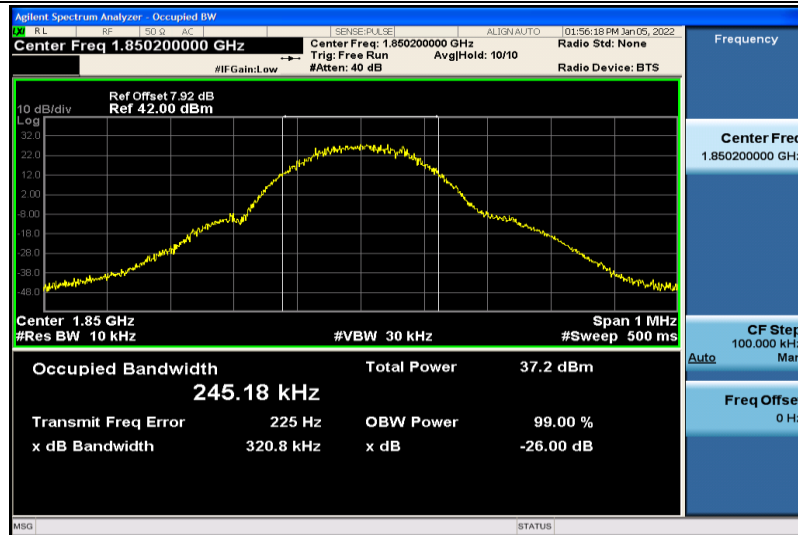
## GPRS850-128



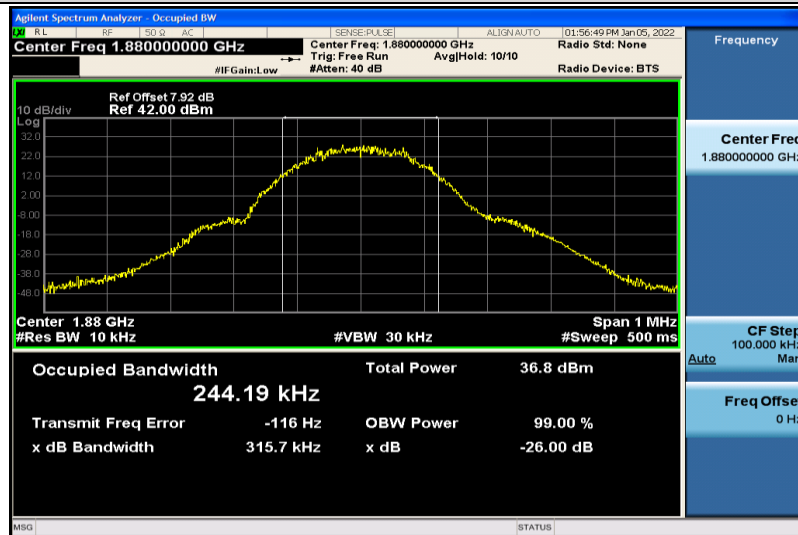
## GPRS850-190



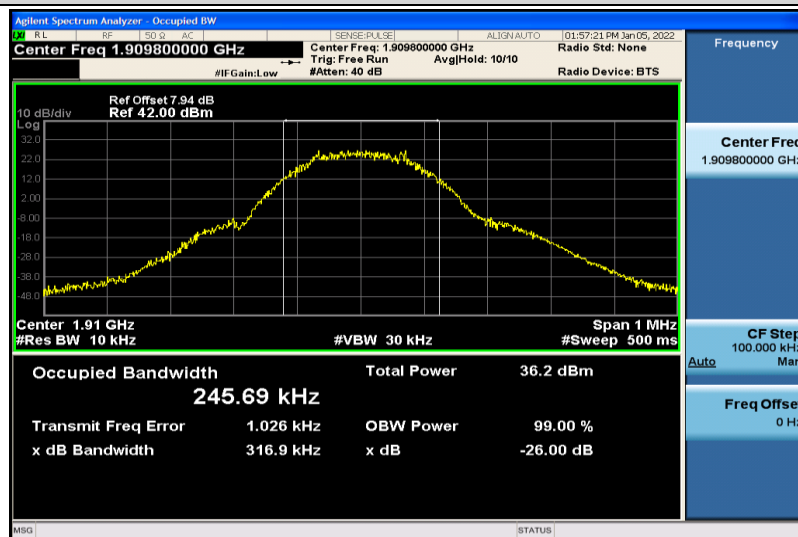
## GPRS850-251



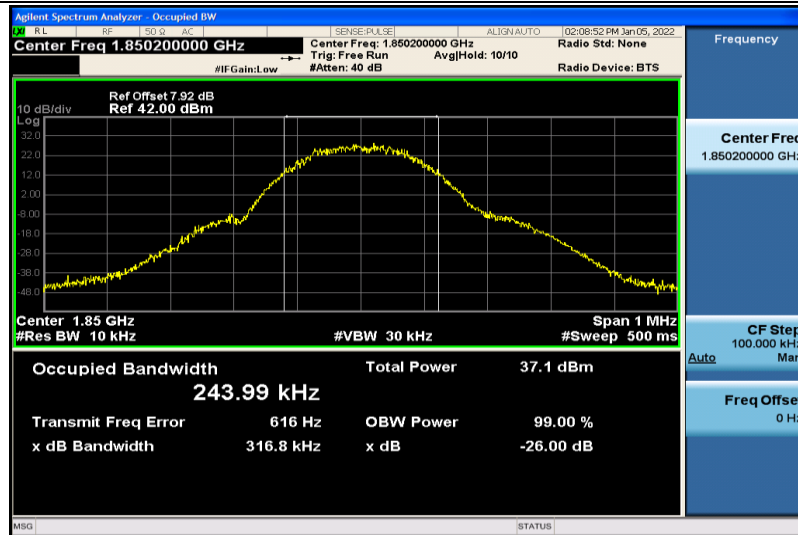
## GSM1900-512



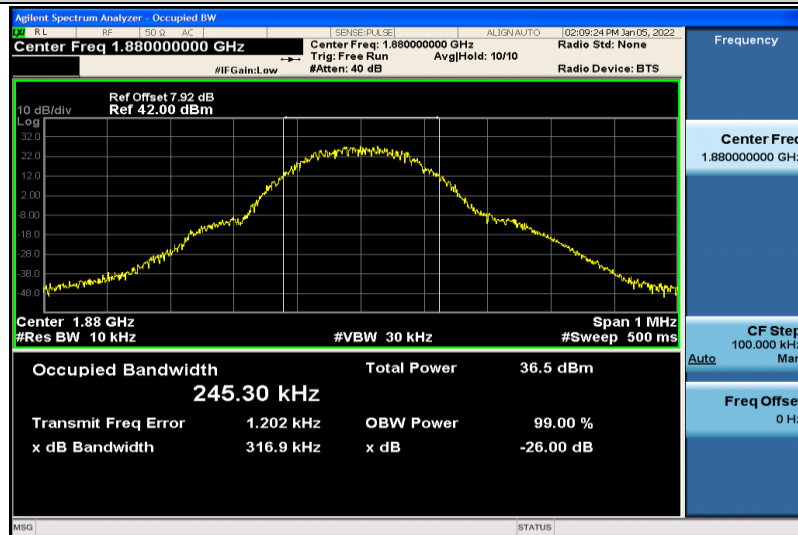
## GSM1900-661



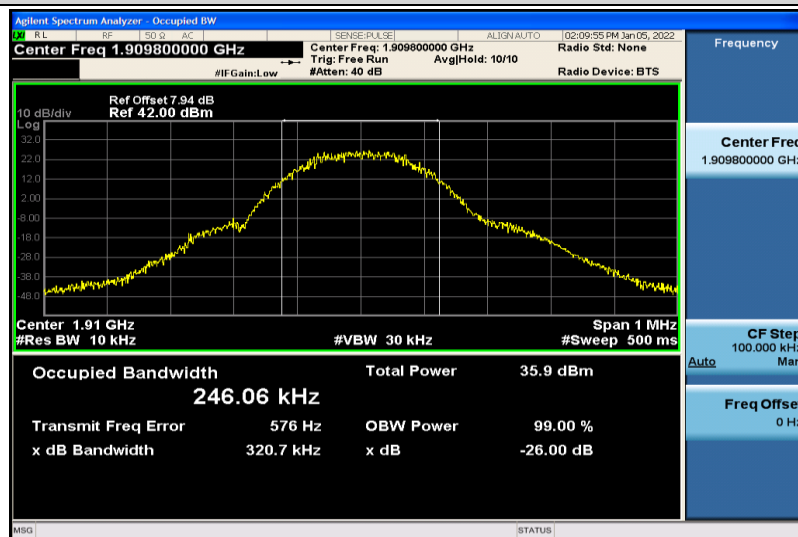
## GSM1900-810



## GPRS1900-512



## GPRS1900-661



## GPRS1900-810

## 8.4 Appendix D: Band Edge

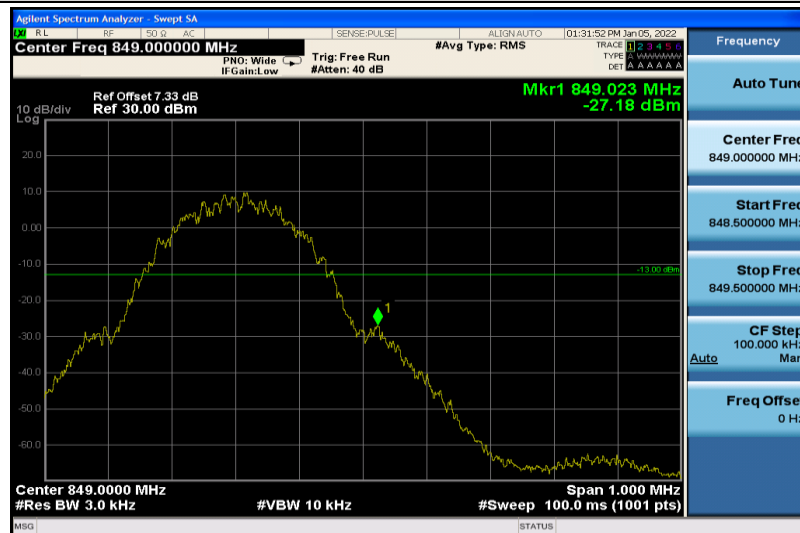
### Test Result

| Band     | Channel | Value(dBm) | Limit(dBm) | Verdict |
|----------|---------|------------|------------|---------|
| GSM850   | 128     | -26.78     | -13        | PASS    |
| GSM850   | 251     | -27.18     | -13        | PASS    |
| GPRS850  | 128     | -26.86     | -13        | PASS    |
| GPRS850  | 251     | -26.05     | -13        | PASS    |
| GSM1900  | 512     | -29.98     | -13        | PASS    |
| GSM1900  | 810     | -29.60     | -13        | PASS    |
| GPRS1900 | 512     | -28.89     | -13        | PASS    |
| GPRS1900 | 810     | -29.14     | -13        | PASS    |

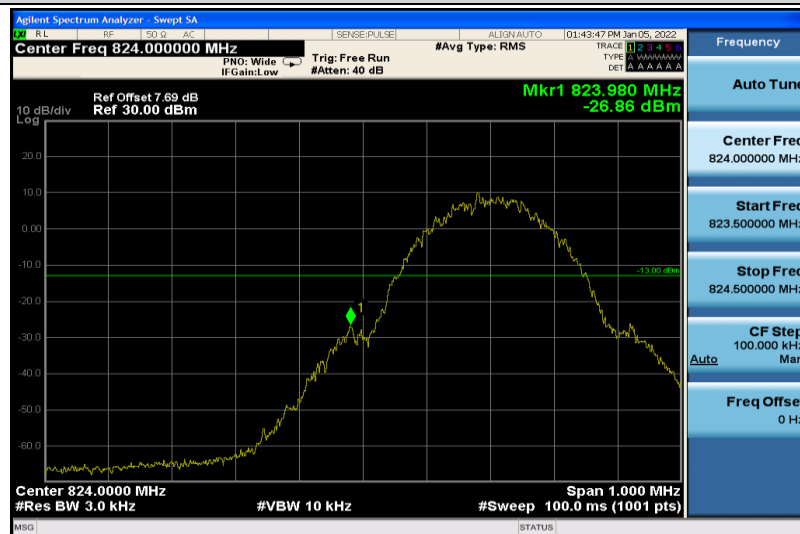
## Test Graphs



GSM850-128



GSM850-251



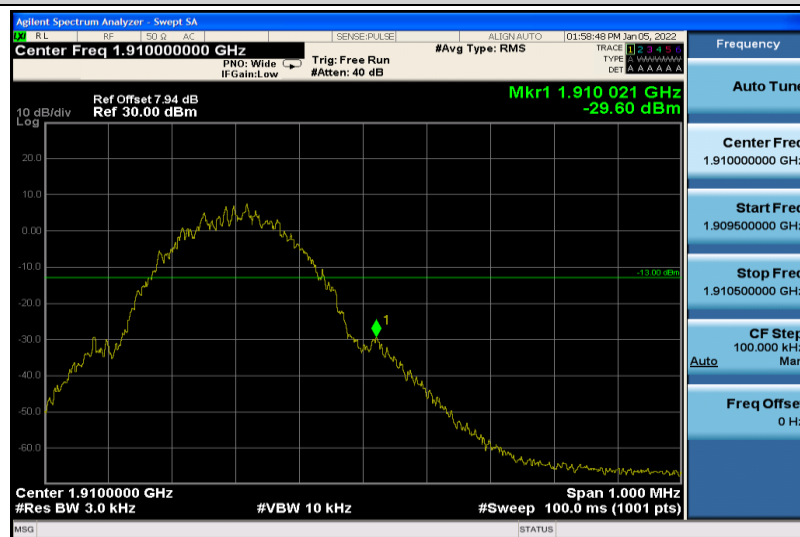
GPRS850-128



GPRS850-251



GSM1900-512

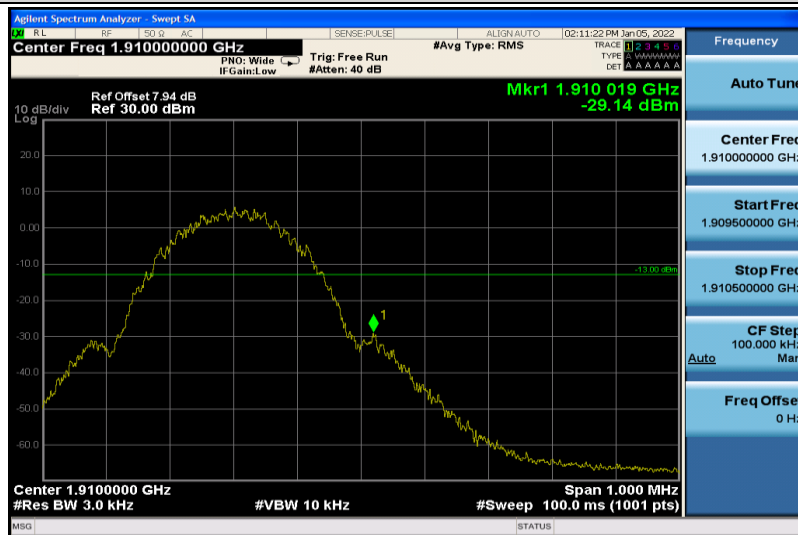


GSM1900-810





GPRS1900-512



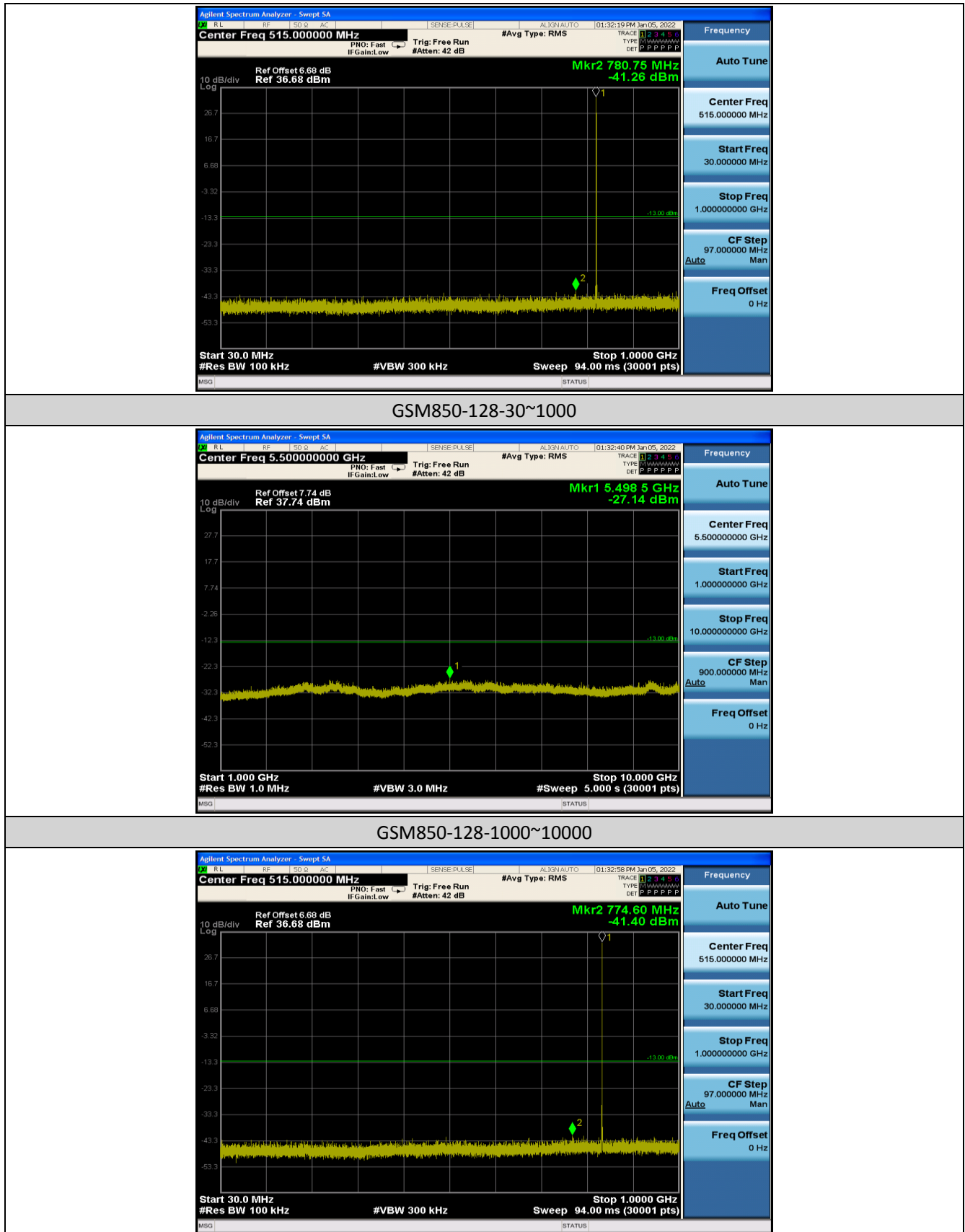
GPRS1900-810

## 8.5 Appendix E: Conducted Spurious Emission

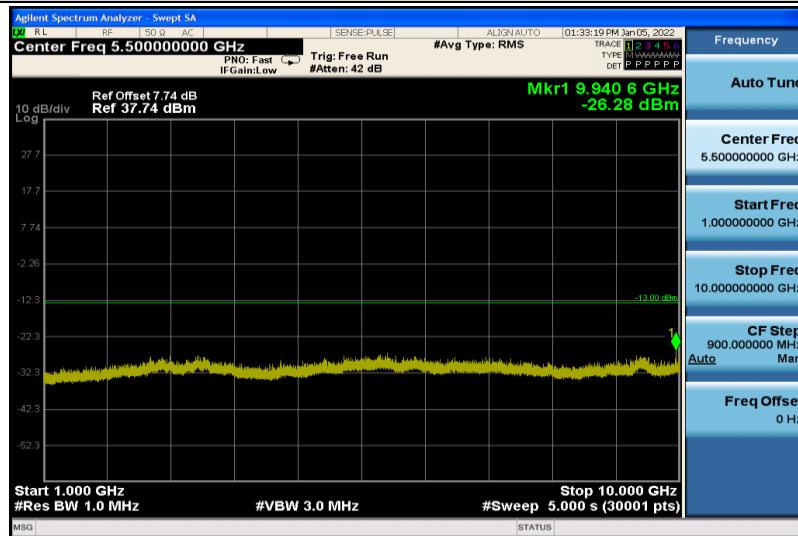
### Test Result

| Band     | Channel | Frequency Range(Mhz) | Value(dBm) | Limit(dBm) | Verdict |
|----------|---------|----------------------|------------|------------|---------|
| GSM850   | 128     | 30~1000              | -41.26     | -13        | PASS    |
| GSM850   | 128     | 1000~10000           | -27.14     | -13        | PASS    |
| GSM850   | 190     | 30~1000              | -41.41     | -13        | PASS    |
| GSM850   | 190     | 1000~10000           | -26.28     | -13        | PASS    |
| GSM850   | 251     | 30~1000              | -41.57     | -13        | PASS    |
| GSM850   | 251     | 1000~10000           | -26.83     | -13        | PASS    |
| GPRS850  | 128     | 30~1000              | -41.03     | -13        | PASS    |
| GPRS850  | 128     | 1000~10000           | -26.71     | -13        | PASS    |
| GPRS850  | 190     | 30~1000              | -41.28     | -13        | PASS    |
| GPRS850  | 190     | 1000~10000           | -26.31     | -13        | PASS    |
| GPRS850  | 251     | 30~1000              | -40.82     | -13        | PASS    |
| GPRS850  | 251     | 1000~10000           | -26.32     | -13        | PASS    |
| GSM1900  | 512     | 30~1000              | -41.53     | -13        | PASS    |
| GSM1900  | 512     | 1000~20000           | -20.82     | -13        | PASS    |
| GSM1900  | 661     | 30~1000              | -40.44     | -13        | PASS    |
| GSM1900  | 661     | 1000~20000           | -20.70     | -13        | PASS    |
| GSM1900  | 810     | 30~1000              | -41.32     | -13        | PASS    |
| GSM1900  | 810     | 1000~20000           | -20.53     | -13        | PASS    |
| GPRS1900 | 512     | 30~1000              | -41.23     | -13        | PASS    |
| GPRS1900 | 512     | 1000~20000           | -20.81     | -13        | PASS    |
| GPRS1900 | 661     | 30~1000              | -41.85     | -13        | PASS    |
| GPRS1900 | 661     | 1000~20000           | -20.83     | -13        | PASS    |
| GPRS1900 | 810     | 30~1000              | -42.09     | -13        | PASS    |
| GPRS1900 | 810     | 1000~20000           | -20.50     | -13        | PASS    |

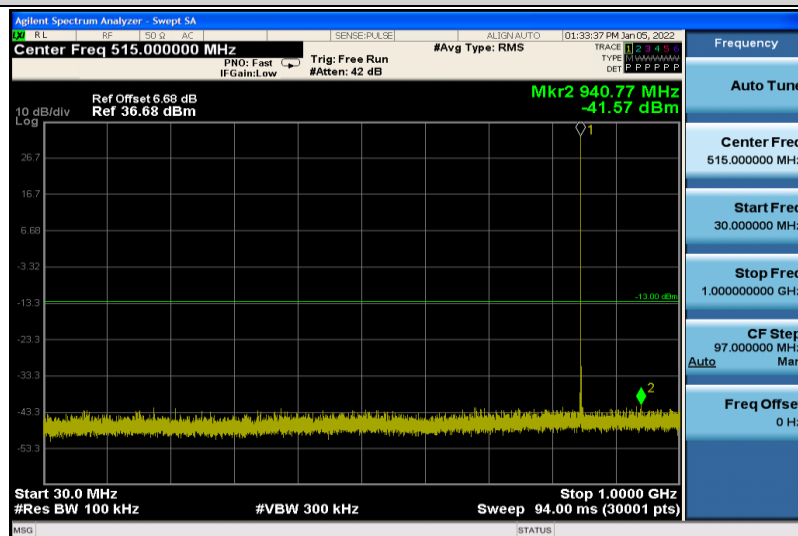
## Test Graphs



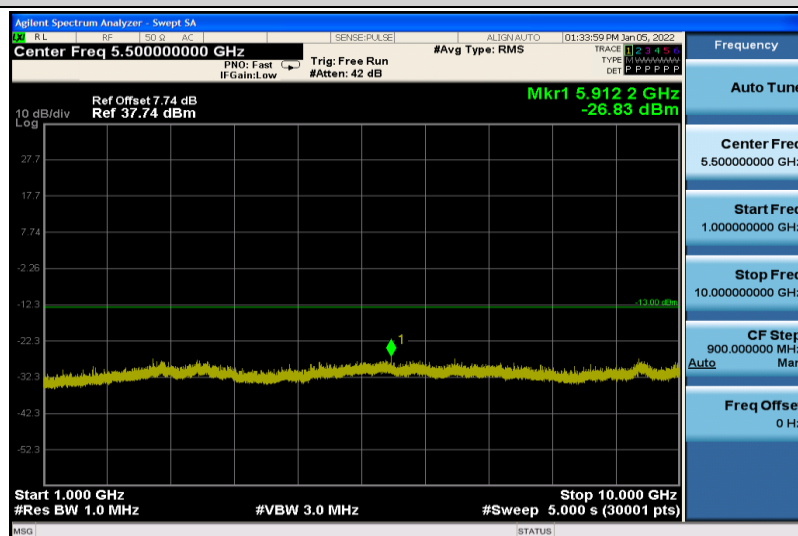
## GSM850-190-30~1000



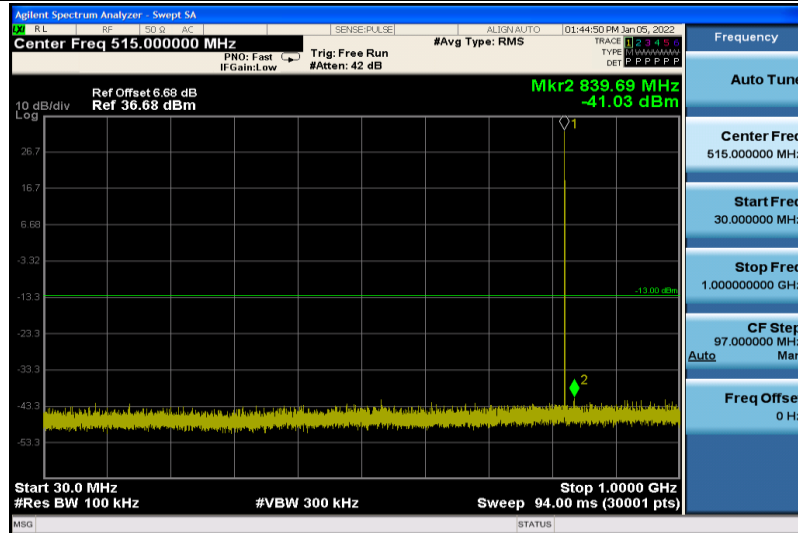
## GSM850-190-1000~10000



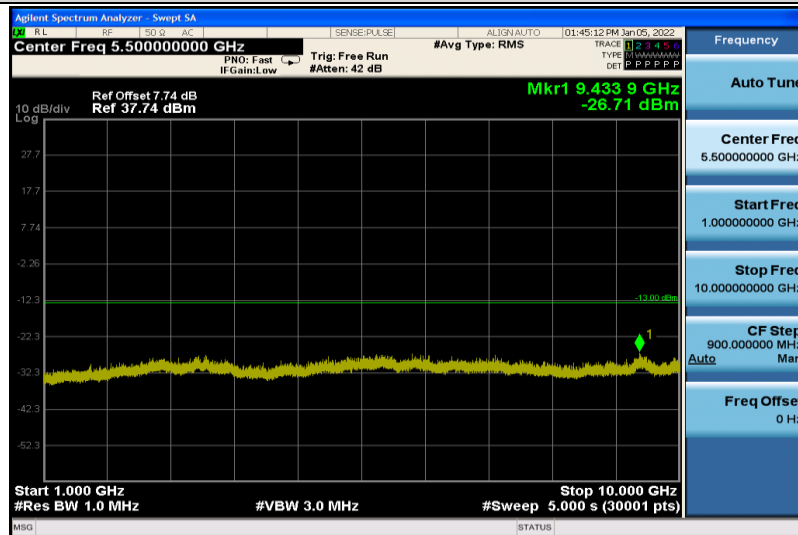
## GSM850-251-30~1000



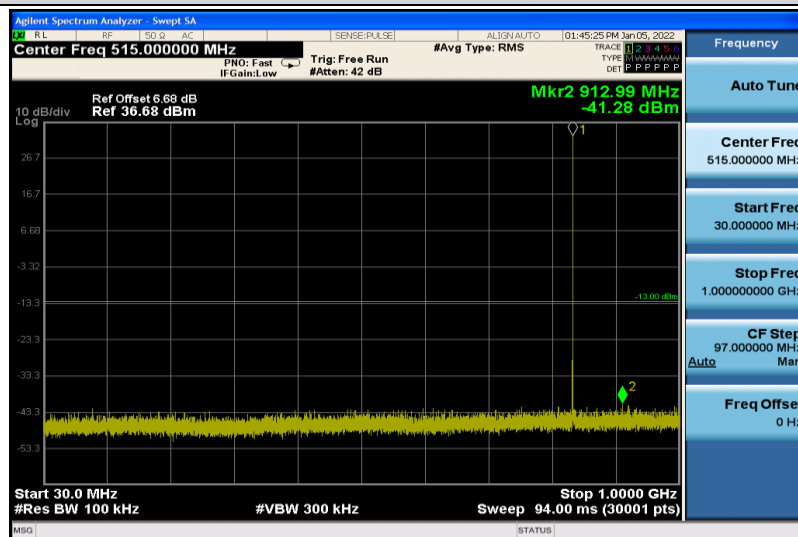
## GSM850-251-1000~10000



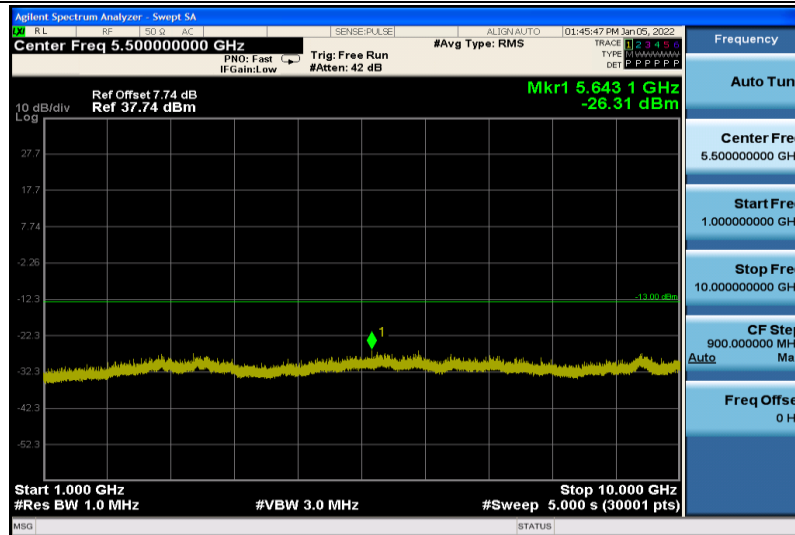
GPRS850-128-30~1000



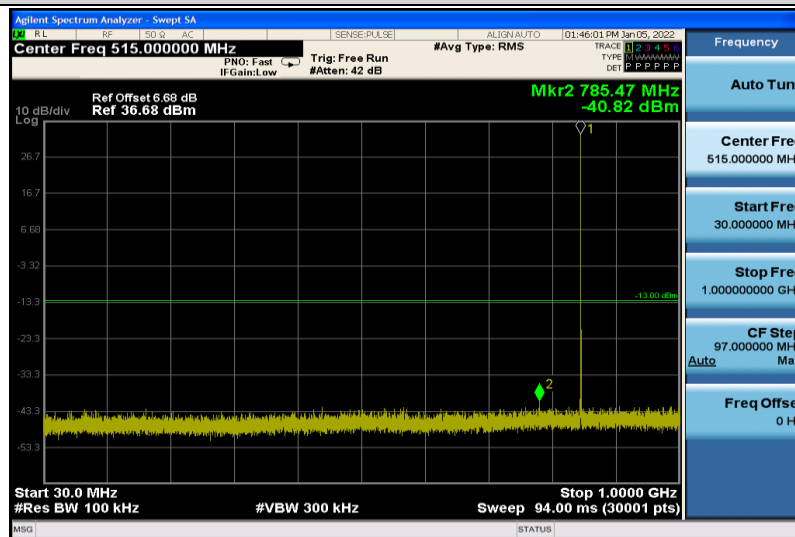
GPRS850-128-1000~10000



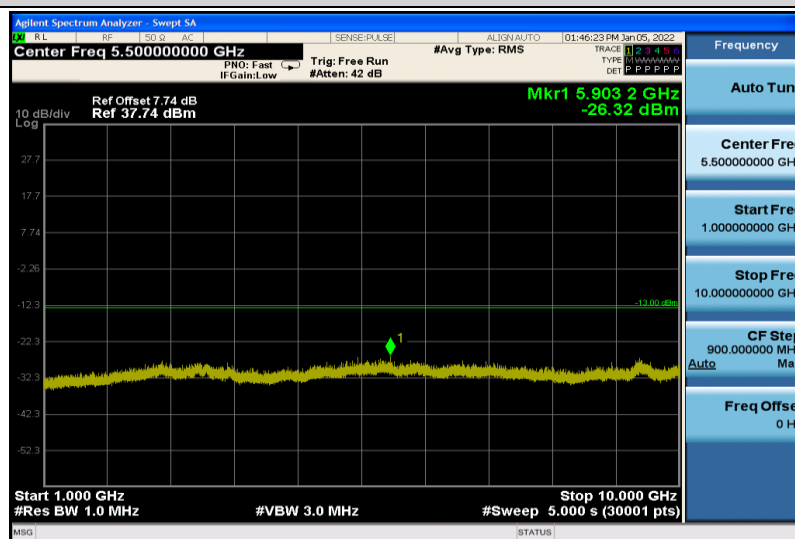
GPRS850-190-30~1000



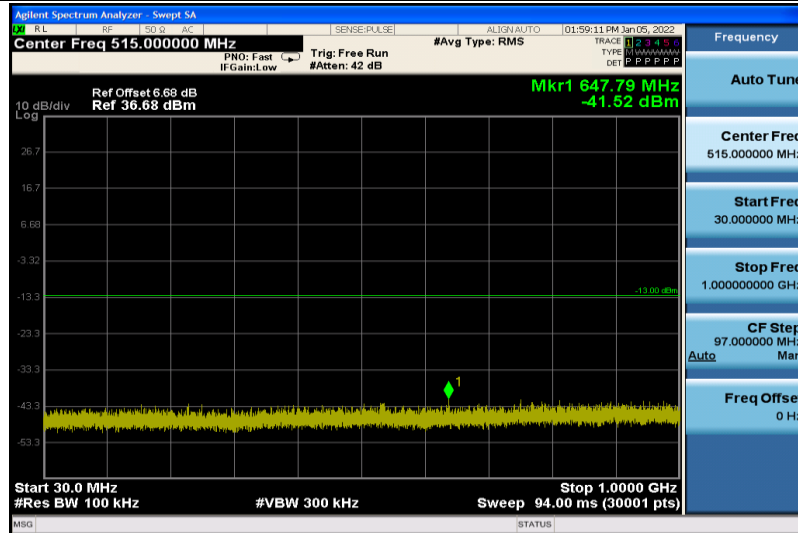
GPRS850-190-1000~10000



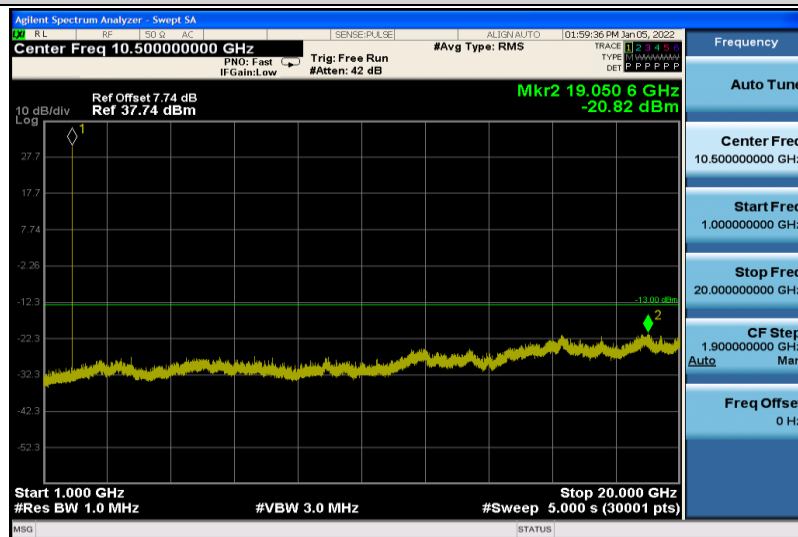
GPRS850-251-30~1000



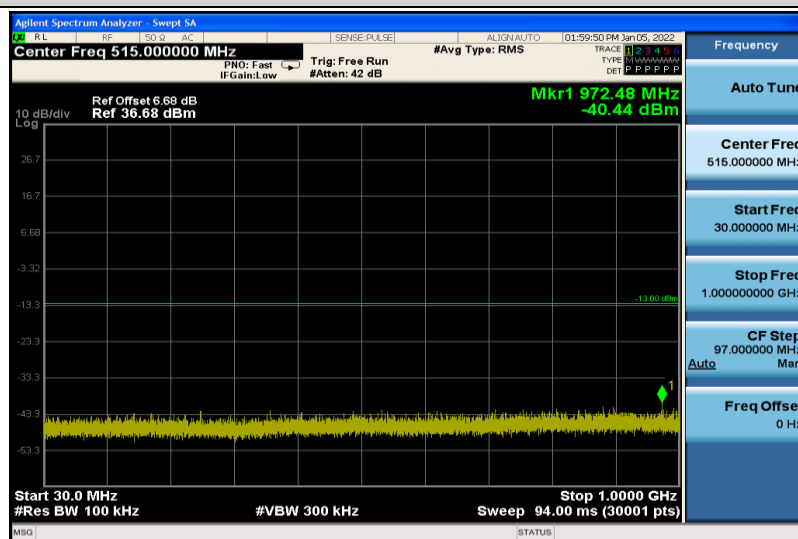
GPRS850-251-1000~10000



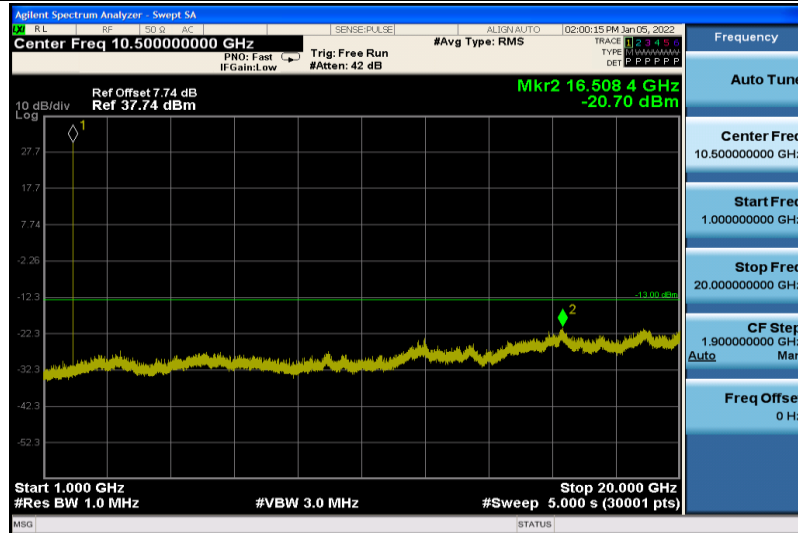
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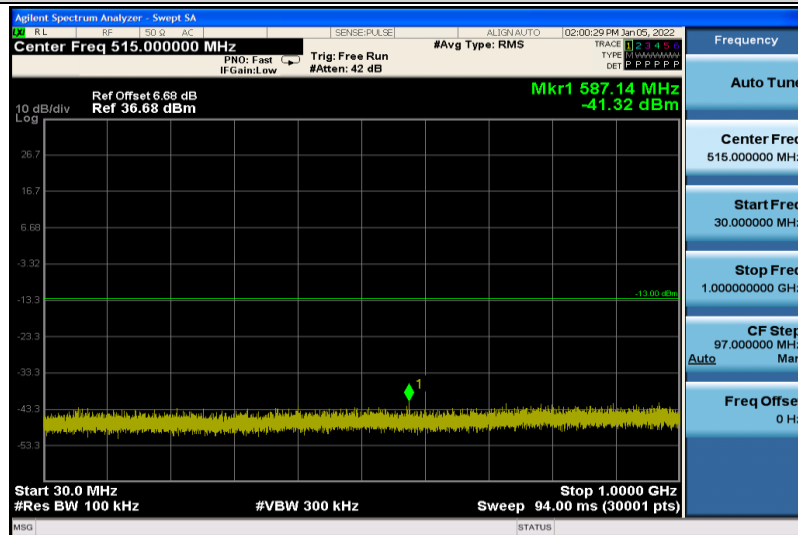
## GSM1900-512-1000~20000



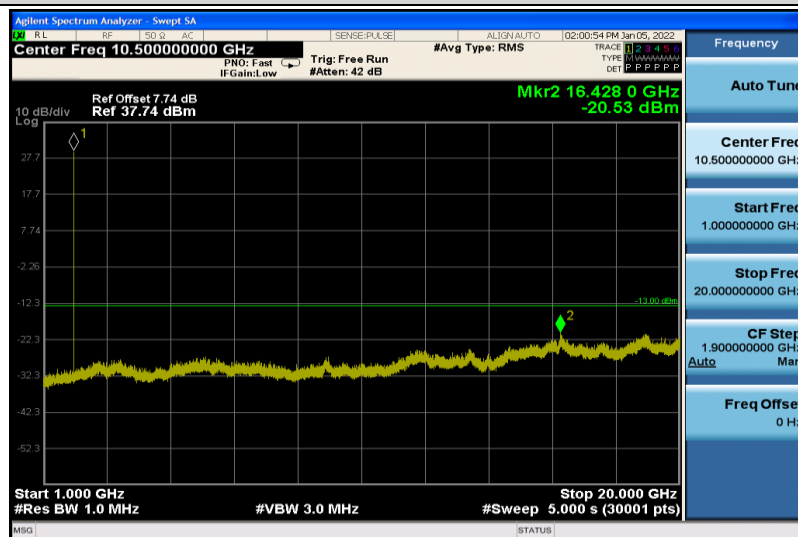
## GSM1900-661-30~1000



GSM1900-661-1000~20000

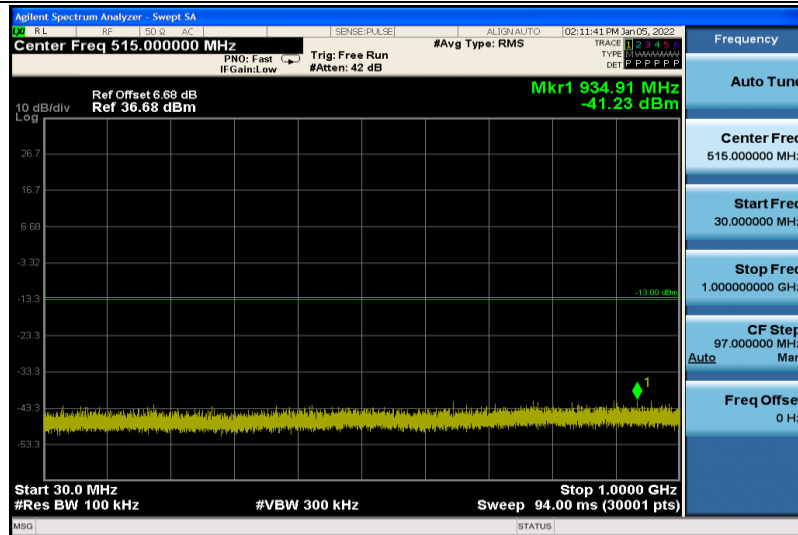


GSM1900-810-30~1000

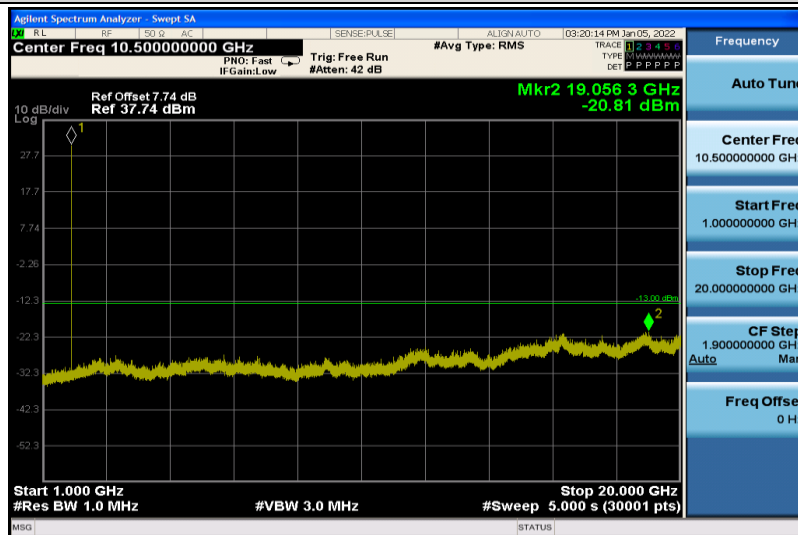


GSM1900-810-1000~20000

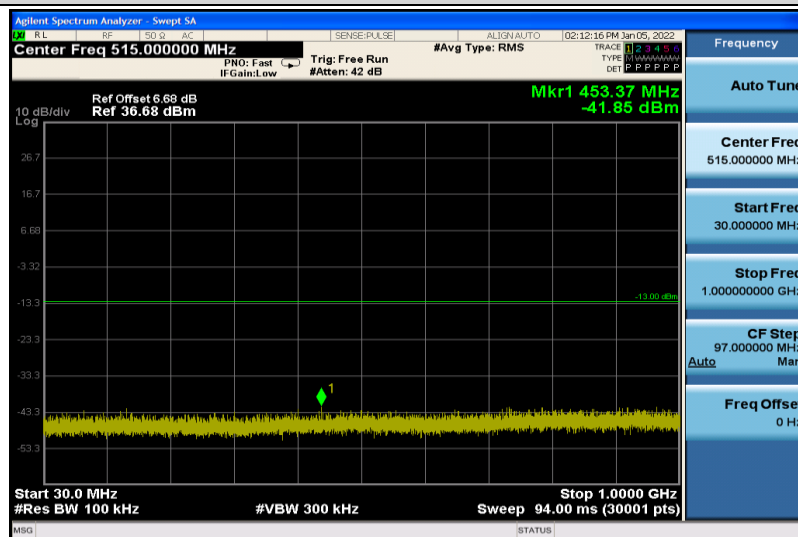




GPRS1900-512-30~1000



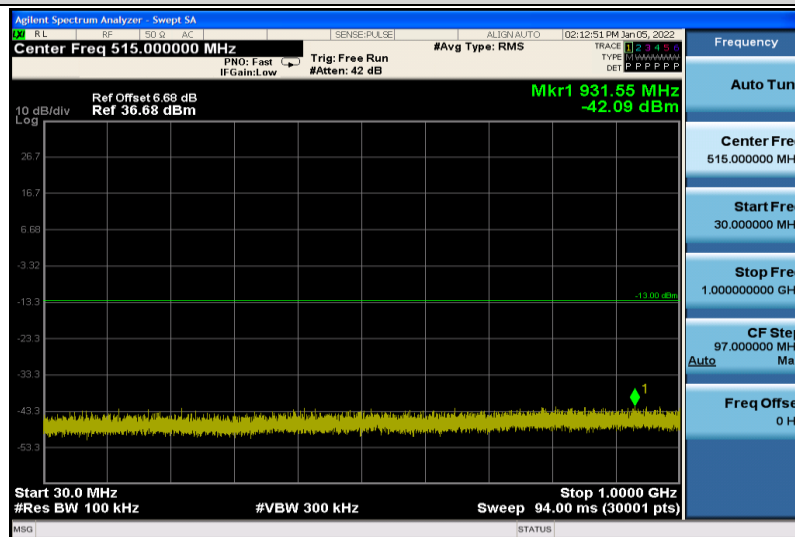
GPRS1900-512-1000~20000



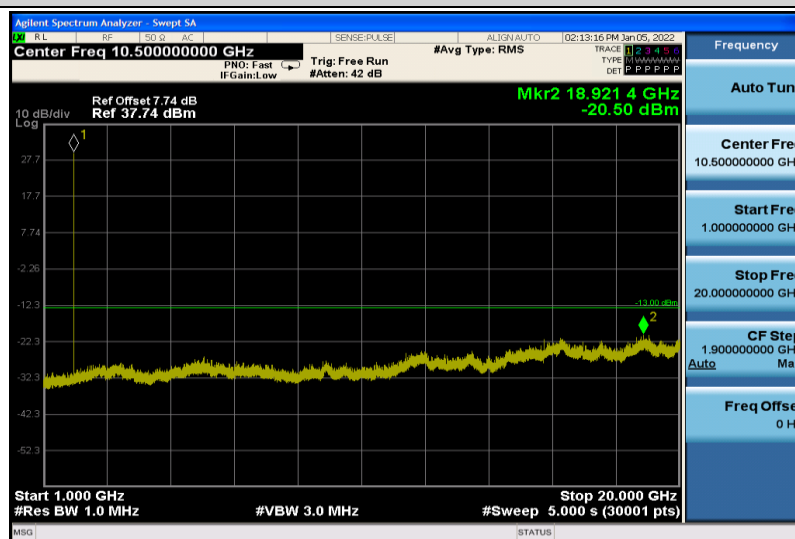
GPRS1900-661-30~1000



GPRS1900-661-1000~20000



GPRS1900-810-30~1000



GPRS1900-810-1000~20000

## 8.6 Appendix F: Frequency Stability

### Test Result

| Voltage  |         |               |                  |                |                 |             |         |
|----------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band     | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850   | 128     | VL            | TN               | -10.53         | -0.012776       | 2.5         | PASS    |
| GSM850   | 128     | VN            | TN               | -3.36          | -0.004077       | 2.5         | PASS    |
| GSM850   | 128     | VH            | TN               | -12.30         | -0.014924       | 2.5         | PASS    |
| GSM850   | 190     | VL            | TN               | -10.01         | -0.011965       | 2.5         | PASS    |
| GSM850   | 190     | VN            | TN               | -12.72         | -0.015204       | 2.5         | PASS    |
| GSM850   | 190     | VH            | TN               | -5.91          | -0.007064       | 2.5         | PASS    |
| GSM850   | 251     | VL            | TN               | -3.55          | -0.004182       | 2.5         | PASS    |
| GSM850   | 251     | VN            | TN               | -4.55          | -0.005361       | 2.5         | PASS    |
| GSM850   | 251     | VH            | TN               | -4.23          | -0.004984       | 2.5         | PASS    |
| GPRS850  | 128     | VL            | TN               | 3.39           | 0.004113        | 2.5         | PASS    |
| GPRS850  | 128     | VN            | TN               | -1.10          | -0.001335       | 2.5         | PASS    |
| GPRS850  | 128     | VH            | TN               | -6.01          | -0.007292       | 2.5         | PASS    |
| GPRS850  | 190     | VL            | TN               | -9.52          | -0.011379       | 2.5         | PASS    |
| GPRS850  | 190     | VN            | TN               | -7.62          | -0.009108       | 2.5         | PASS    |
| GPRS850  | 190     | VH            | TN               | -3.03          | -0.003622       | 2.5         | PASS    |
| GPRS850  | 251     | VL            | TN               | 1.29           | 0.001520        | 2.5         | PASS    |
| GPRS850  | 251     | VN            | TN               | -5.94          | -0.006998       | 2.5         | PASS    |
| GPRS850  | 251     | VH            | TN               | -0.81          | -0.000954       | 2.5         | PASS    |
| GSM1900  | 512     | VL            | TN               | -24.92         | -0.013469       | 2.5         | PASS    |
| GSM1900  | 512     | VN            | TN               | -25.93         | -0.014015       | 2.5         | PASS    |
| GSM1900  | 512     | VH            | TN               | -27.60         | -0.014917       | 2.5         | PASS    |
| GSM1900  | 661     | VL            | TN               | -31.12         | -0.016553       | 2.5         | PASS    |
| GSM1900  | 661     | VN            | TN               | -32.41         | -0.017239       | 2.5         | PASS    |
| GSM1900  | 661     | VH            | TN               | -21.86         | -0.011628       | 2.5         | PASS    |
| GSM1900  | 810     | VL            | TN               | -19.47         | -0.010195       | 2.5         | PASS    |
| GSM1900  | 810     | VN            | TN               | -22.73         | -0.011902       | 2.5         | PASS    |
| GSM1900  | 810     | VH            | TN               | -22.24         | -0.011645       | 2.5         | PASS    |
| GPRS1900 | 512     | VL            | TN               | 3.16           | 0.001708        | 2.5         | PASS    |
| GPRS1900 | 512     | VN            | TN               | 13.88          | 0.007502        | 2.5         | PASS    |
| GPRS1900 | 512     | VH            | TN               | -2.91          | -0.001573       | 2.5         | PASS    |
| GPRS1900 | 661     | VL            | TN               | -12.14         | -0.006457       | 2.5         | PASS    |
| GPRS1900 | 661     | VN            | TN               | -7.55          | -0.004016       | 2.5         | PASS    |
| GPRS1900 | 661     | VH            | TN               | -12.49         | -0.006644       | 2.5         | PASS    |
| GPRS1900 | 810     | VL            | TN               | -17.34         | -0.009079       | 2.5         | PASS    |
| GPRS1900 | 810     | VN            | TN               | -20.60         | -0.010786       | 2.5         | PASS    |

|          |     |    |    |        |           |     |      |
|----------|-----|----|----|--------|-----------|-----|------|
| GPRS1900 | 810 | VH | TN | -19.57 | -0.010247 | 2.5 | PASS |
|----------|-----|----|----|--------|-----------|-----|------|

| Temperature |         |               |                  |                |                 |             |         |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850      | 128     | VN            | -30              | -11.33         | -0.013747       | 2.5         | PASS    |
| GSM850      | 128     | VN            | -20              | -13.37         | -0.016222       | 2.5         | PASS    |
| GSM850      | 128     | VN            | -10              | -14.08         | -0.017083       | 2.5         | PASS    |
| GSM850      | 128     | VN            | 0                | -15.69         | -0.019037       | 2.5         | PASS    |
| GSM850      | 128     | VN            | 10               | -19.47         | -0.023623       | 2.5         | PASS    |
| GSM850      | 128     | VN            | 20               | -16.98         | -0.020602       | 2.5         | PASS    |
| GSM850      | 128     | VN            | 30               | -12.85         | -0.015591       | 2.5         | PASS    |
| GSM850      | 128     | VN            | 40               | -17.56         | -0.021306       | 2.5         | PASS    |
| GSM850      | 128     | VN            | 50               | -13.53         | -0.016416       | 2.5         | PASS    |
| GSM850      | 190     | VN            | -30              | -6.52          | -0.007793       | 2.5         | PASS    |
| GSM850      | 190     | VN            | -20              | -11.04         | -0.013196       | 2.5         | PASS    |
| GSM850      | 190     | VN            | -10              | -9.78          | -0.011690       | 2.5         | PASS    |
| GSM850      | 190     | VN            | 0                | -7.33          | -0.008762       | 2.5         | PASS    |
| GSM850      | 190     | VN            | 10               | -12.46         | -0.014894       | 2.5         | PASS    |
| GSM850      | 190     | VN            | 20               | -13.04         | -0.015587       | 2.5         | PASS    |
| GSM850      | 190     | VN            | 30               | -12.75         | -0.015240       | 2.5         | PASS    |
| GSM850      | 190     | VN            | 40               | -14.56         | -0.017404       | 2.5         | PASS    |
| GSM850      | 190     | VN            | 50               | -13.14         | -0.015706       | 2.5         | PASS    |
| GSM850      | 251     | VN            | -30              | -4.33          | -0.005101       | 2.5         | PASS    |
| GSM850      | 251     | VN            | -20              | -2.32          | -0.002733       | 2.5         | PASS    |
| GSM850      | 251     | VN            | -10              | -8.23          | -0.009696       | 2.5         | PASS    |
| GSM850      | 251     | VN            | 0                | -7.97          | -0.009390       | 2.5         | PASS    |
| GSM850      | 251     | VN            | 10               | -8.62          | -0.010156       | 2.5         | PASS    |
| GSM850      | 251     | VN            | 20               | -6.72          | -0.007917       | 2.5         | PASS    |
| GSM850      | 251     | VN            | 30               | -12.07         | -0.014220       | 2.5         | PASS    |
| GSM850      | 251     | VN            | 40               | -7.01          | -0.008259       | 2.5         | PASS    |
| GSM850      | 251     | VN            | 50               | -5.88          | -0.006927       | 2.5         | PASS    |
| GPRS850     | 128     | VN            | -30              | -6.52          | -0.007911       | 2.5         | PASS    |
| GPRS850     | 128     | VN            | -20              | -3.62          | -0.004392       | 2.5         | PASS    |
| GPRS850     | 128     | VN            | -10              | -3.23          | -0.003919       | 2.5         | PASS    |
| GPRS850     | 128     | VN            | 0                | -8.81          | -0.010689       | 2.5         | PASS    |
| GPRS850     | 128     | VN            | 10               | -0.06          | -0.000073       | 2.5         | PASS    |
| GPRS850     | 128     | VN            | 20               | -4.49          | -0.005448       | 2.5         | PASS    |
| GPRS850     | 128     | VN            | 30               | -0.19          | -0.000231       | 2.5         | PASS    |
| GPRS850     | 128     | VN            | 40               | -2.58          | -0.003130       | 2.5         | PASS    |
| GPRS850     | 128     | VN            | 50               | -6.81          | -0.008263       | 2.5         | PASS    |
| GPRS850     | 190     | VN            | -30              | -5.23          | -0.006251       | 2.5         | PASS    |
| GPRS850     | 190     | VN            | -20              | -5.62          | -0.006718       | 2.5         | PASS    |

|         |     |    |     |        |           |     |      |
|---------|-----|----|-----|--------|-----------|-----|------|
| GPRS850 | 190 | VN | -10 | -9.78  | -0.011690 | 2.5 | PASS |
| GPRS850 | 190 | VN | 0   | -9.88  | -0.011810 | 2.5 | PASS |
| GPRS850 | 190 | VN | 10  | 0.00   | 0.000000  | 2.5 | PASS |
| GPRS850 | 190 | VN | 20  | -8.27  | -0.009885 | 2.5 | PASS |
| GPRS850 | 190 | VN | 30  | -2.94  | -0.003514 | 2.5 | PASS |
| GPRS850 | 190 | VN | 40  | -6.36  | -0.007602 | 2.5 | PASS |
| GPRS850 | 190 | VN | 50  | -4.33  | -0.005176 | 2.5 | PASS |
| GPRS850 | 251 | VN | -30 | -4.36  | -0.005137 | 2.5 | PASS |
| GPRS850 | 251 | VN | -20 | -1.23  | -0.001449 | 2.5 | PASS |
| GPRS850 | 251 | VN | -10 | -3.71  | -0.004371 | 2.5 | PASS |
| GPRS850 | 251 | VN | 0   | -4.10  | -0.004830 | 2.5 | PASS |
| GPRS850 | 251 | VN | 10  | -11.46 | -0.013501 | 2.5 | PASS |
| GPRS850 | 251 | VN | 20  | -8.17  | -0.009625 | 2.5 | PASS |
| GPRS850 | 251 | VN | 30  | -7.68  | -0.009048 | 2.5 | PASS |
| GPRS850 | 251 | VN | 40  | -9.52  | -0.011216 | 2.5 | PASS |
| GPRS850 | 251 | VN | 50  | -5.75  | -0.006774 | 2.5 | PASS |
| GSM1900 | 512 | VN | -30 | -25.44 | -0.013750 | 2.5 | PASS |
| GSM1900 | 512 | VN | -20 | -20.70 | -0.011188 | 2.5 | PASS |
| GSM1900 | 512 | VN | -10 | -27.70 | -0.014971 | 2.5 | PASS |
| GSM1900 | 512 | VN | 0   | -20.89 | -0.011291 | 2.5 | PASS |
| GSM1900 | 512 | VN | 10  | -36.42 | -0.019684 | 2.5 | PASS |
| GSM1900 | 512 | VN | 20  | -31.03 | -0.016771 | 2.5 | PASS |
| GSM1900 | 512 | VN | 30  | -36.26 | -0.019598 | 2.5 | PASS |
| GSM1900 | 512 | VN | 40  | -26.76 | -0.014463 | 2.5 | PASS |
| GSM1900 | 512 | VN | 50  | -28.57 | -0.015442 | 2.5 | PASS |
| GSM1900 | 661 | VN | -30 | -32.32 | -0.017191 | 2.5 | PASS |
| GSM1900 | 661 | VN | -20 | -33.71 | -0.017931 | 2.5 | PASS |
| GSM1900 | 661 | VN | -10 | -21.34 | -0.011351 | 2.5 | PASS |
| GSM1900 | 661 | VN | 0   | -32.19 | -0.017122 | 2.5 | PASS |
| GSM1900 | 661 | VN | 10  | -34.90 | -0.018564 | 2.5 | PASS |
| GSM1900 | 661 | VN | 20  | -35.84 | -0.019064 | 2.5 | PASS |
| GSM1900 | 661 | VN | 30  | -22.89 | -0.012176 | 2.5 | PASS |
| GSM1900 | 661 | VN | 40  | -37.81 | -0.020112 | 2.5 | PASS |
| GSM1900 | 661 | VN | 50  | -24.18 | -0.012862 | 2.5 | PASS |
| GSM1900 | 810 | VN | -30 | -23.73 | -0.012425 | 2.5 | PASS |
| GSM1900 | 810 | VN | -20 | -27.18 | -0.014232 | 2.5 | PASS |
| GSM1900 | 810 | VN | -10 | -29.32 | -0.015352 | 2.5 | PASS |
| GSM1900 | 810 | VN | 0   | -21.37 | -0.011190 | 2.5 | PASS |
| GSM1900 | 810 | VN | 10  | -40.07 | -0.020981 | 2.5 | PASS |
| GSM1900 | 810 | VN | 20  | -22.76 | -0.011917 | 2.5 | PASS |
| GSM1900 | 810 | VN | 30  | -23.15 | -0.012122 | 2.5 | PASS |
| GSM1900 | 810 | VN | 40  | -40.87 | -0.021400 | 2.5 | PASS |

|          |     |    |     |        |           |     |      |
|----------|-----|----|-----|--------|-----------|-----|------|
| GSM1900  | 810 | VN | 50  | -24.57 | -0.012865 | 2.5 | PASS |
| GPRS1900 | 512 | VN | -30 | -6.26  | -0.003383 | 2.5 | PASS |
| GPRS1900 | 512 | VN | -20 | -8.65  | -0.004675 | 2.5 | PASS |
| GPRS1900 | 512 | VN | -10 | -7.85  | -0.004243 | 2.5 | PASS |
| GPRS1900 | 512 | VN | 0   | -13.79 | -0.007453 | 2.5 | PASS |
| GPRS1900 | 512 | VN | 10  | 3.75   | 0.002027  | 2.5 | PASS |
| GPRS1900 | 512 | VN | 20  | 5.94   | 0.003210  | 2.5 | PASS |
| GPRS1900 | 512 | VN | 30  | -2.03  | -0.001097 | 2.5 | PASS |
| GPRS1900 | 512 | VN | 40  | -7.75  | -0.004189 | 2.5 | PASS |
| GPRS1900 | 512 | VN | 50  | -9.14  | -0.004940 | 2.5 | PASS |
| GPRS1900 | 661 | VN | -30 | -16.37 | -0.008707 | 2.5 | PASS |
| GPRS1900 | 661 | VN | -20 | -25.73 | -0.013686 | 2.5 | PASS |
| GPRS1900 | 661 | VN | -10 | -18.60 | -0.009894 | 2.5 | PASS |
| GPRS1900 | 661 | VN | 0   | -22.21 | -0.011814 | 2.5 | PASS |
| GPRS1900 | 661 | VN | 10  | -32.67 | -0.017378 | 2.5 | PASS |
| GPRS1900 | 661 | VN | 20  | -19.98 | -0.010628 | 2.5 | PASS |
| GPRS1900 | 661 | VN | 30  | -20.44 | -0.010872 | 2.5 | PASS |
| GPRS1900 | 661 | VN | 40  | -20.40 | -0.010851 | 2.5 | PASS |
| GPRS1900 | 661 | VN | 50  | -24.63 | -0.013101 | 2.5 | PASS |
| GPRS1900 | 810 | VN | -30 | -19.63 | -0.010279 | 2.5 | PASS |
| GPRS1900 | 810 | VN | -20 | -24.80 | -0.012986 | 2.5 | PASS |
| GPRS1900 | 810 | VN | -10 | -19.57 | -0.010247 | 2.5 | PASS |
| GPRS1900 | 810 | VN | 0   | -10.82 | -0.005666 | 2.5 | PASS |
| GPRS1900 | 810 | VN | 10  | -25.18 | -0.013185 | 2.5 | PASS |
| GPRS1900 | 810 | VN | 20  | -25.83 | -0.013525 | 2.5 | PASS |
| GPRS1900 | 810 | VN | 30  | -35.35 | -0.018510 | 2.5 | PASS |
| GPRS1900 | 810 | VN | 40  | -31.96 | -0.016735 | 2.5 | PASS |
| GPRS1900 | 810 | VN | 50  | -27.18 | -0.014232 | 2.5 | PASS |

## 8.7 Appendix G: ERP and EIRP

### Test Result

| Band   | Mode | Conducted Power<br>(dBm) | Antenna Gain<br>(dBi) | ERP   |        | Limit<br>(W) | Verdict |
|--------|------|--------------------------|-----------------------|-------|--------|--------------|---------|
|        |      |                          |                       | (dBm) | (W)    |              |         |
| GSM850 | GSM  | 33.29                    | -0.20                 | 30.94 | 1.2417 | 7            | PASS    |
|        | GPRS | 33.20                    | -0.20                 | 30.85 | 1.2162 | 7            | PASS    |

| Band    | Mode | Conducted Power<br>(dBm) | Antenna Gain<br>(dBi) | EIRP  |        | Limit<br>(W) | Verdict |
|---------|------|--------------------------|-----------------------|-------|--------|--------------|---------|
|         |      |                          |                       | (dBm) | (W)    |              |         |
| GSM1900 | GSM  | 29.76                    | 0.50                  | 30.26 | 1.0617 | 2            | PASS    |
|         | GPRS | 29.81                    | 0.50                  | 30.31 | 1.0740 | 2            | PASS    |

-----End of the Report -----