

ANNEX 1

FCC Test Report

FCC ID: 2AADK-F4

Applicant: Shenzhen Yuwei Information And Technology Development Co., Ltd.
Address: Room 703A-01, Floor 7, Building 2, Meilin Duoli Industrial Zone, Beihuan Road, Meifeng Community, Meilin Street, Futian District, Shenzhen

Manufacturer: Shenzhen Yuwei Information And Technology Development Co., Ltd.
Address: Room 703A-01, Floor 7, Building 2, Meilin Duoli Industrial Zone, Beihuan Road, Meifeng Community, Meilin Street, Futian District, Shenzhen

EUT: Vehicle Intelligent Terminal

Trade Mark: N/A

Model Number: F4
F4A, F4B, F4C, F4D, F4E, F4F, F4Q

Date of Receipt: Apr. 28, 2023

Test Date: Apr. 28, 2023 - May. 26, 2023

Date of Report: May. 26, 2023

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

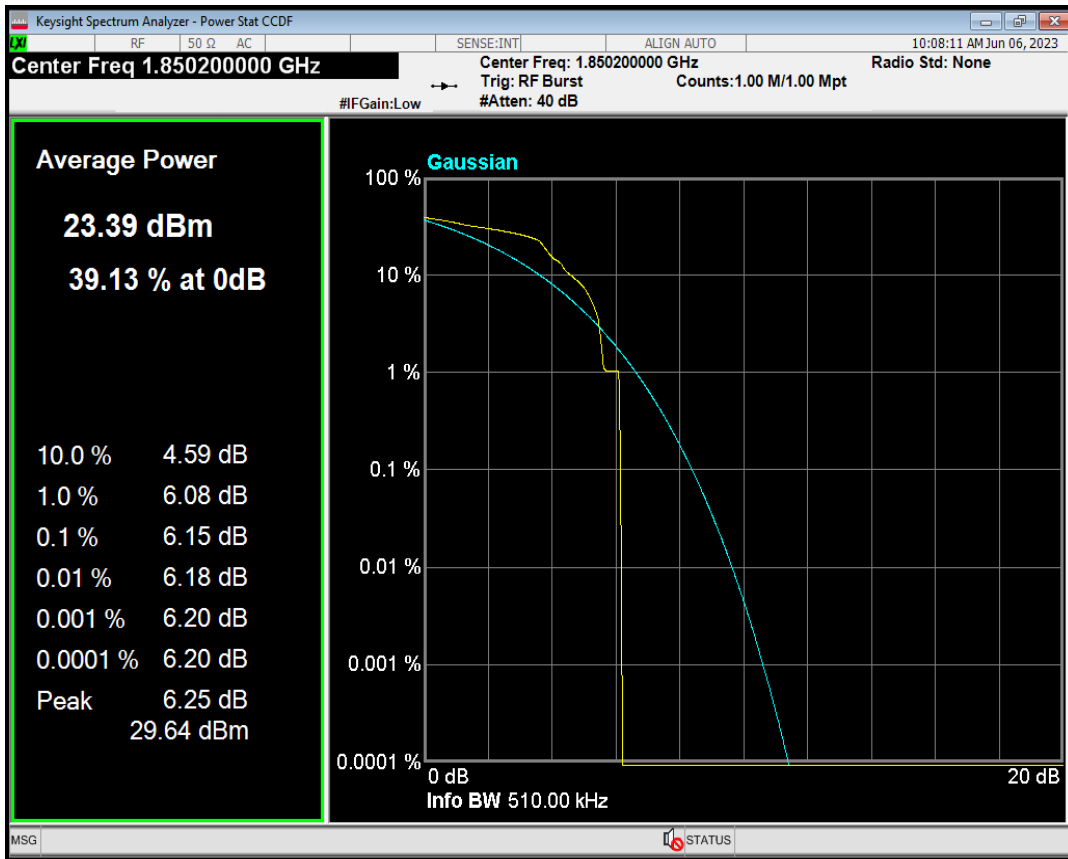
Applicable Standards: FCC CFR Title 47 Part22 Subpart H
FCC CFR Title 47 Part24 Subpart E
FCC CFR Title 47 Part27 Subpart E
ANSI/ TIA/ EIA-603-D-2010
FCC KDB 971168 D01 Power Meas. License Digital Systems v02v02
ANSI C63.26:2015

Test Result: Pass

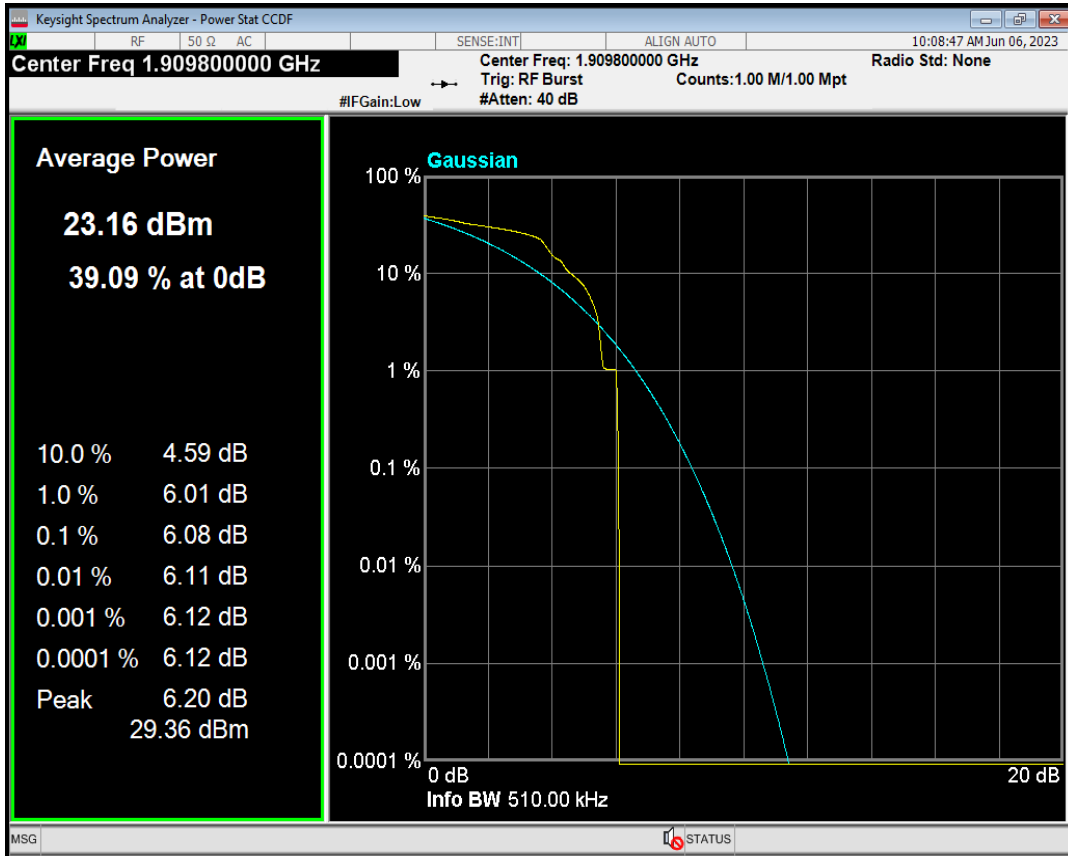
15 Peak-to-Average Ratio

| Band | Channel | Frequency (MHz) | Result (dB) | high Limit (dB) | Verdict |
|-----------|---------|-----------------|-------------|-----------------|---------|
| EGPRS1900 | 512 | 1850.2 | 6.151008 | 13.00 | PASS |
| EGPRS1900 | 661 | 1880 | 6.091542056 | 13.00 | PASS |
| EGPRS1900 | 810 | 1909.8 | 6.079284314 | 13.00 | PASS |
| EGPRS850 | 128 | 824.2 | 8.546352201 | 13.00 | PASS |
| EGPRS850 | 190 | 836.6 | 8.606593407 | 13.00 | PASS |
| EGPRS850 | 251 | 848.8 | 8.436398104 | 13.00 | PASS |

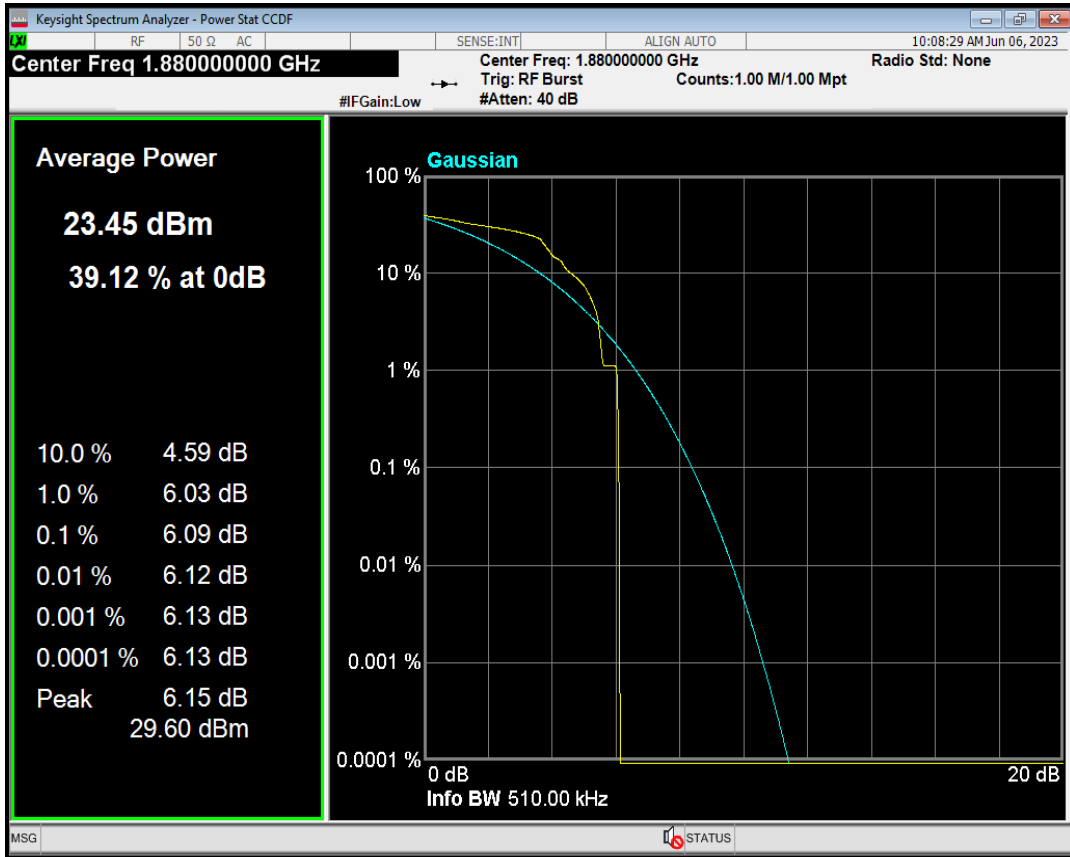
EGPRS1900 Channel=512



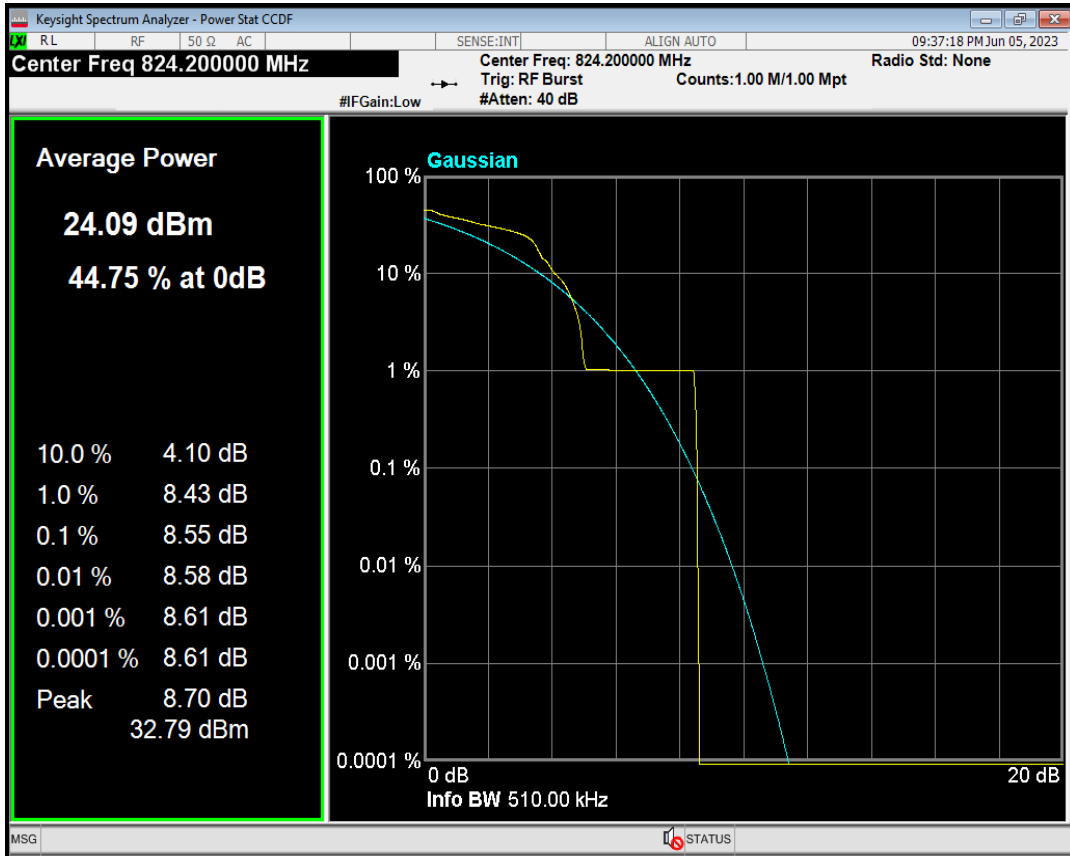
EGPRS1900 Channel=810



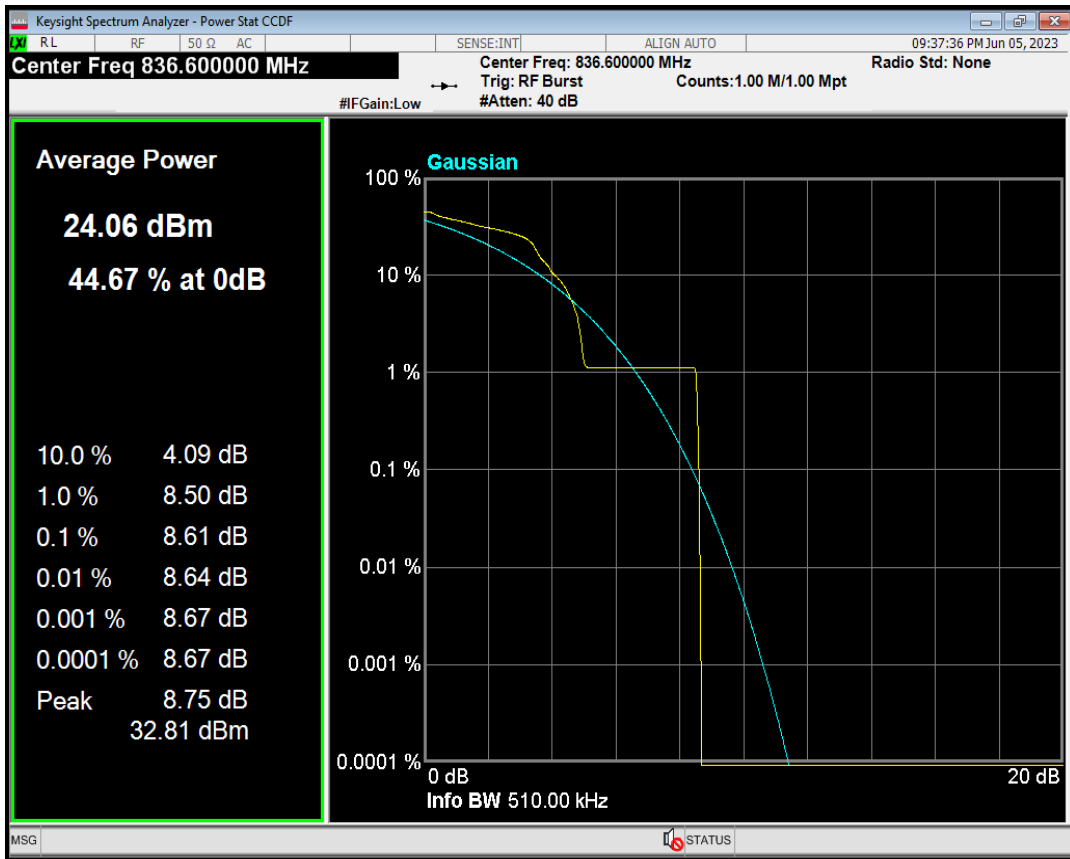
EGPRS1900 Channel=661



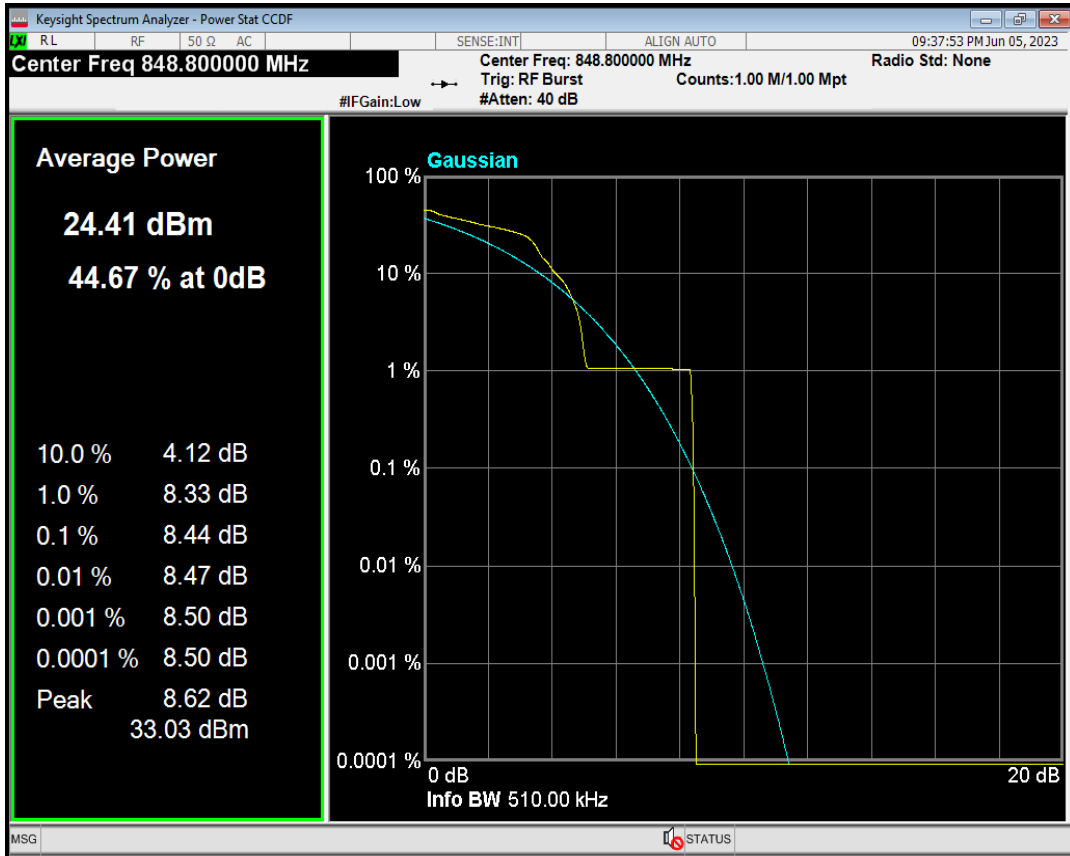
EGPRS850 Channel=128



EGPRS850 Channel=190



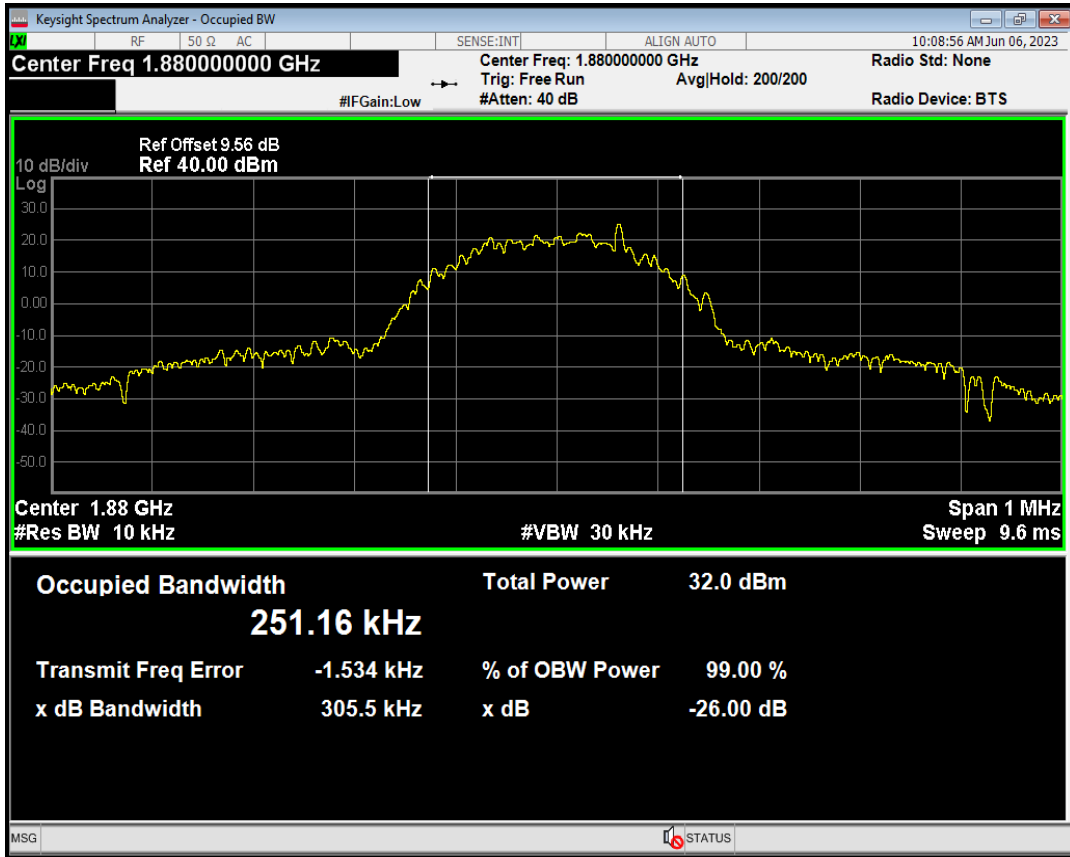
EGPRS850 Channel=251



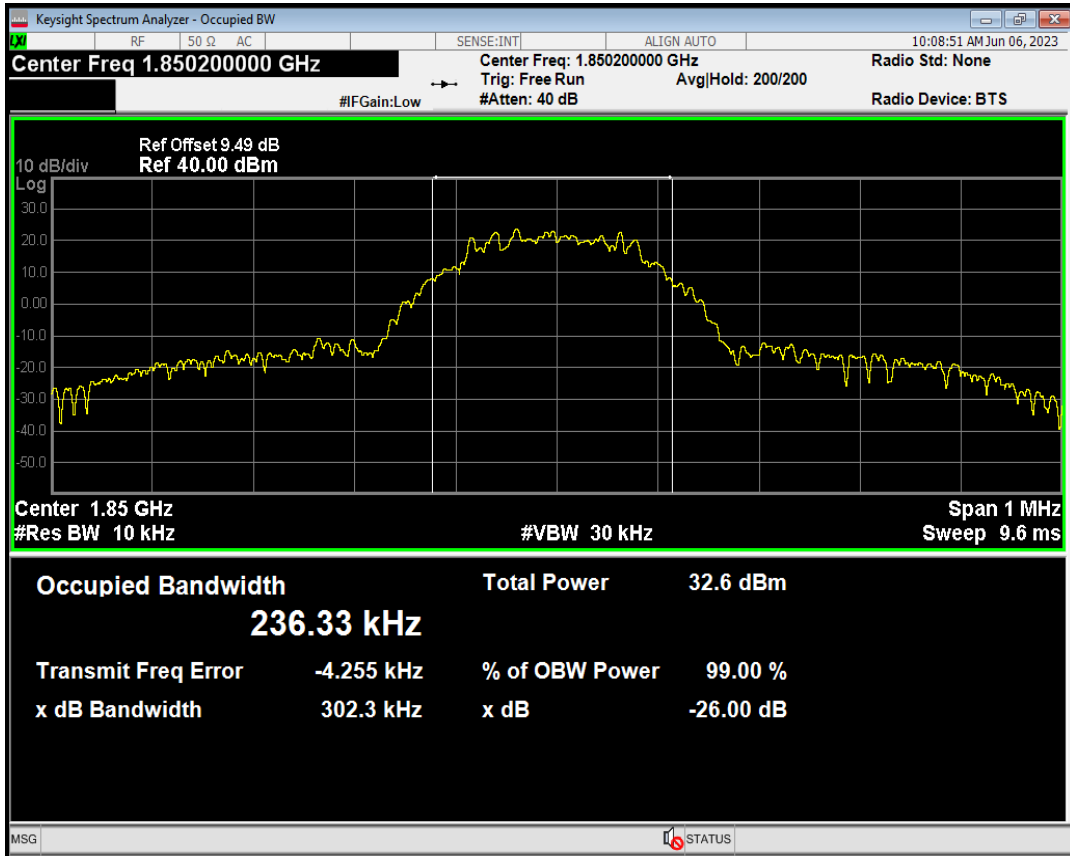
16 Occupied bandwidth

| Band | Channel | Frequency (MHz) | 99% OBW (kHz) | -26dB EBW (kHz) | Verdict |
|-----------|---------|-----------------|---------------|-----------------|---------|
| EGPRS1900 | 512 | 1850.2 | 236.328 | 302.261 | PASS |
| EGPRS1900 | 661 | 1880 | 251.163 | 305.483 | PASS |
| EGPRS1900 | 810 | 1909.8 | 250.649 | 318.527 | PASS |
| EGPRS850 | 128 | 824.2 | 258.379 | 327.286 | PASS |
| EGPRS850 | 190 | 836.6 | 260.303 | 322.635 | PASS |
| EGPRS850 | 251 | 848.8 | 258.255 | 309.104 | PASS |

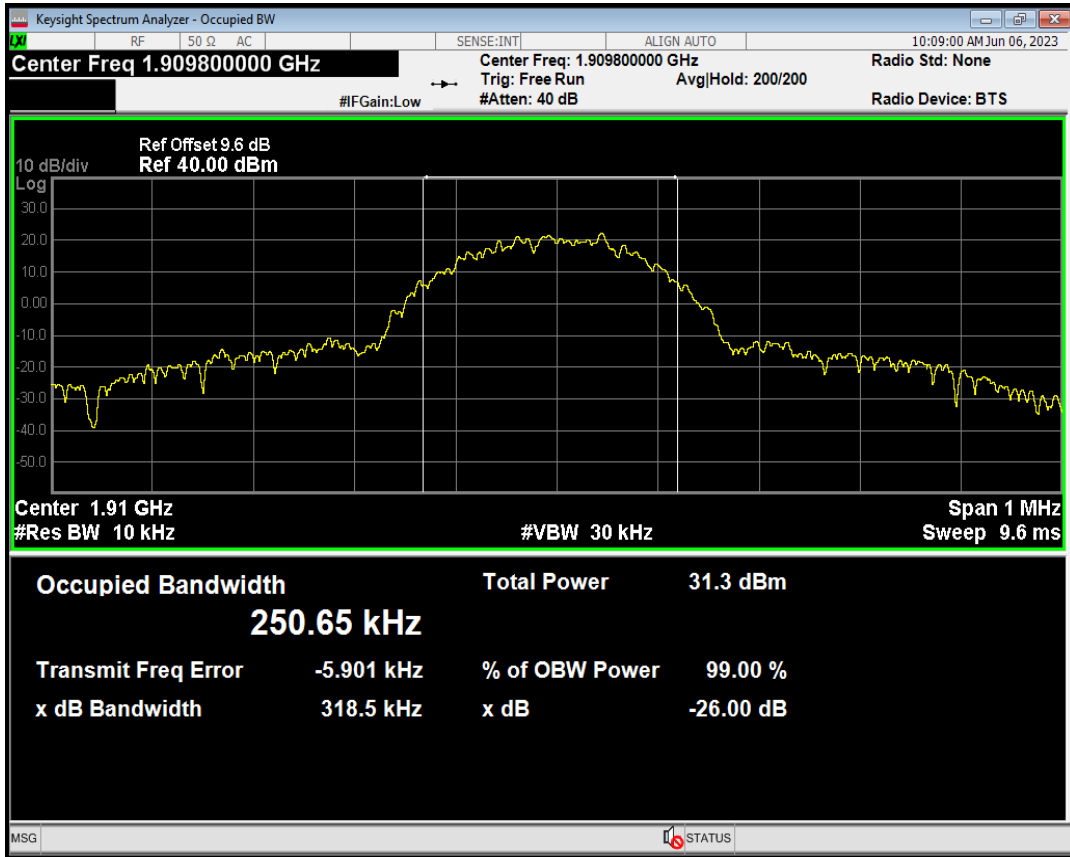
EGPRS1900 Channel=661



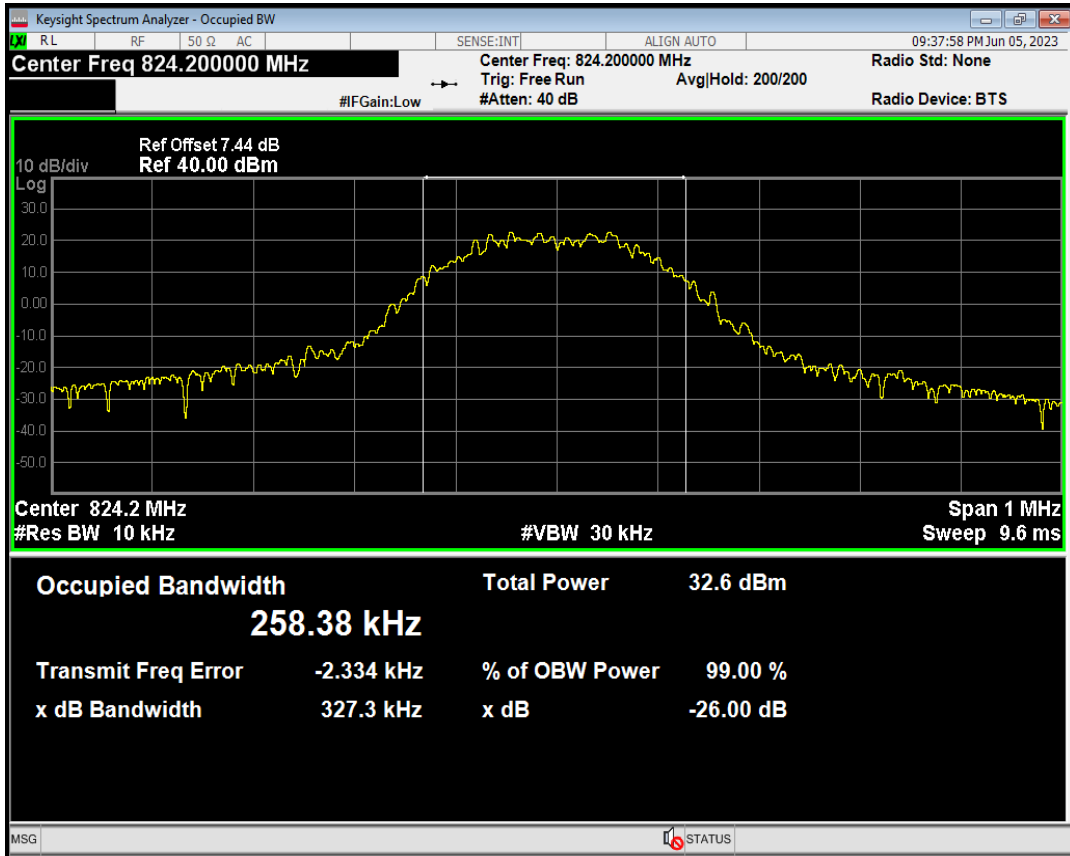
EGPRS1900 Channel=512



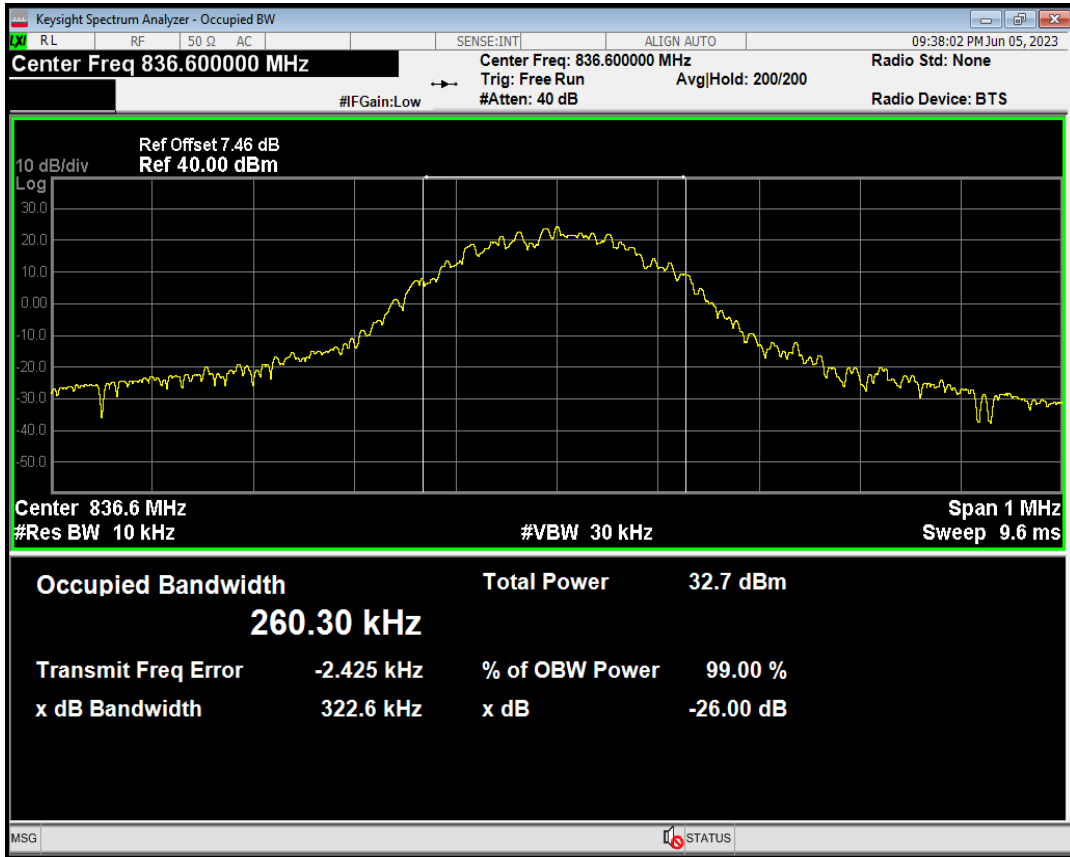
EGPRS1900 Channel=810



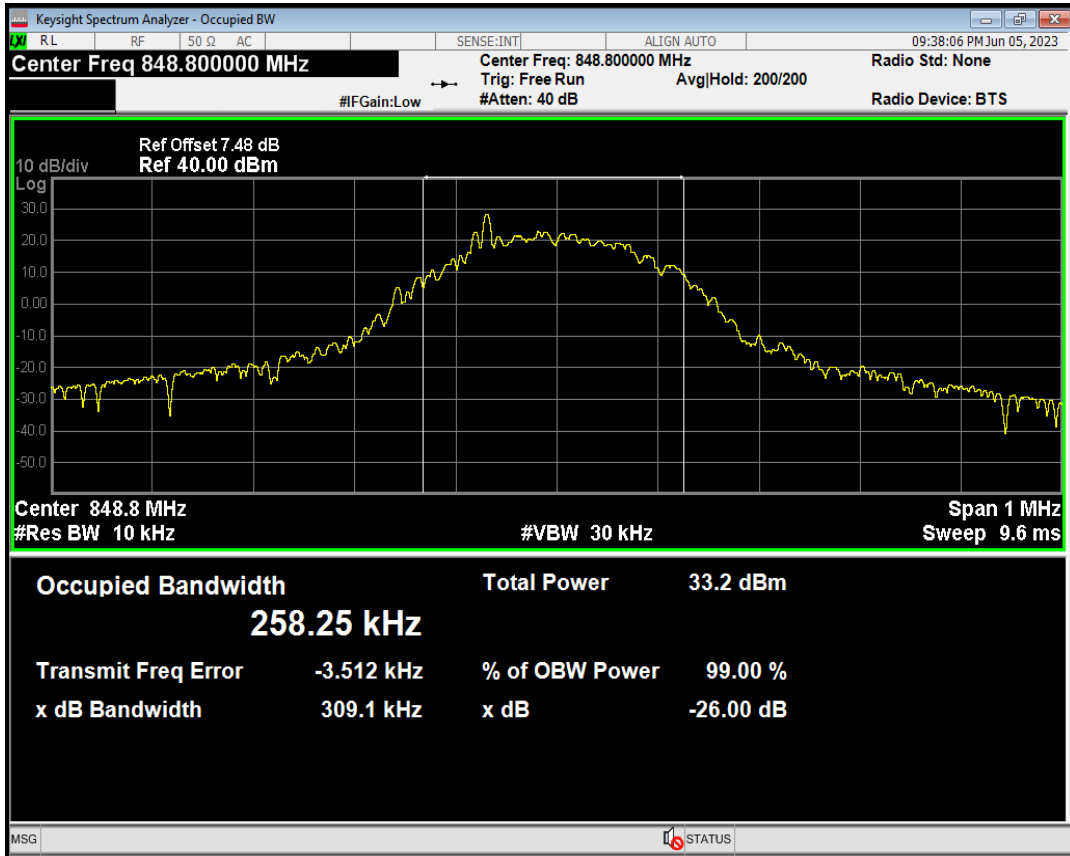
EGPRS850 Channel=128



EGPRS850 Channel=190



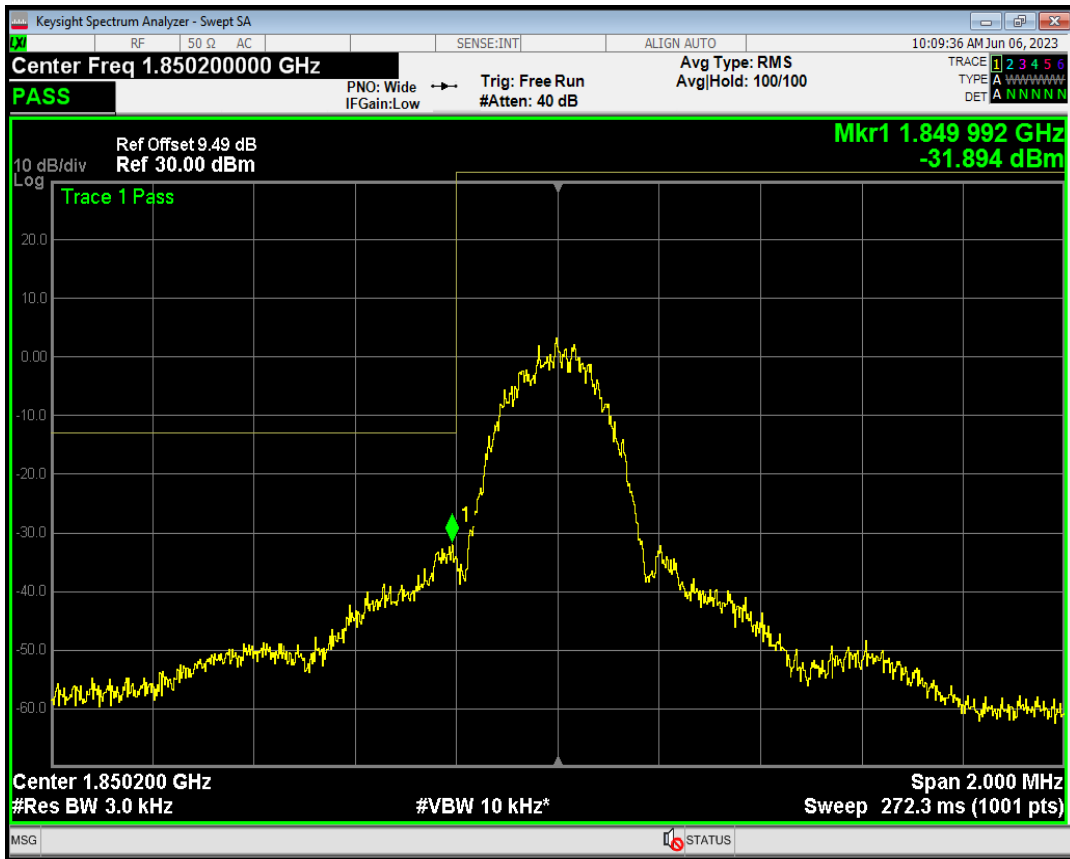
EGPRS850 Channel=251



17 Band edge

| Band | Channel | Frequency (MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-----------------|------------------|-------------|---------|
| EGPRS1900 | 512 | 1850.2 | 1849.99 | -31.89 | -13 | PASS |
| EGPRS1900 | 810 | 1909.8 | 1910.01 | -31.95 | -13 | PASS |
| EGPRS850 | 128 | 824.2 | 823.99 | -32.75 | -13 | PASS |
| EGPRS850 | 251 | 848.8 | 849.00 | -33.41 | -13 | PASS |

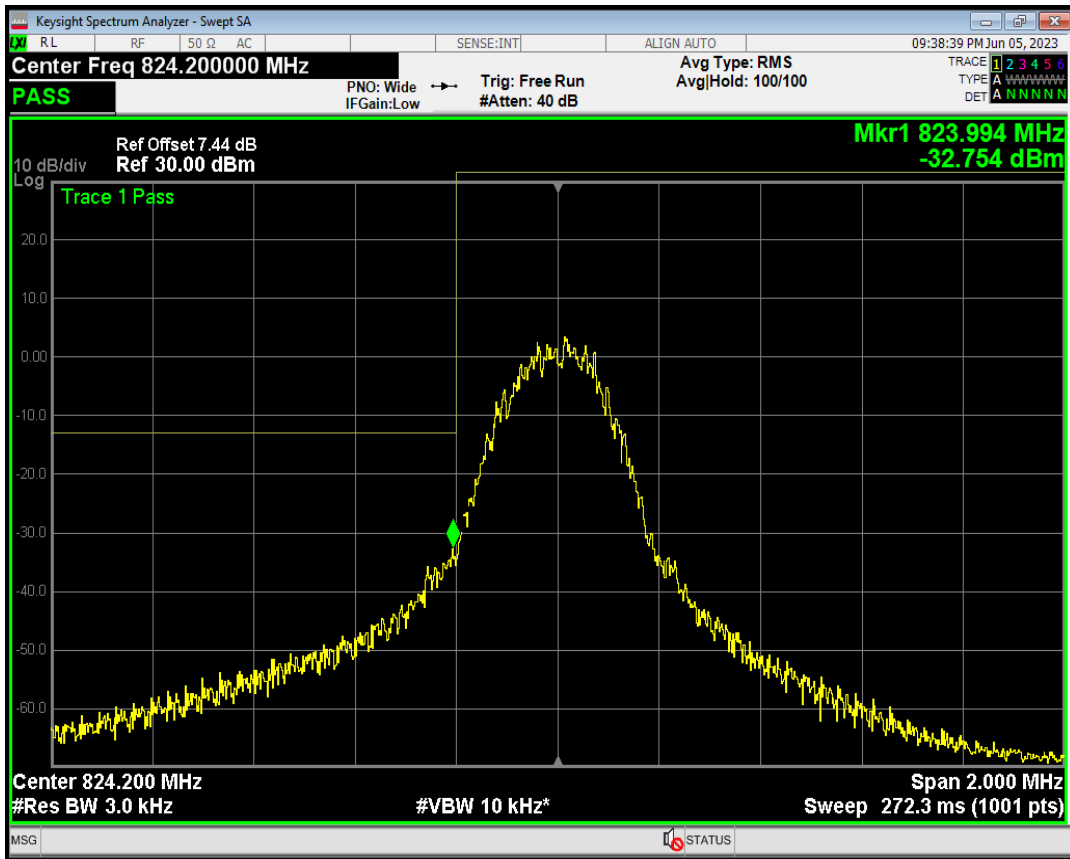
EGPRS1900 Channel=512



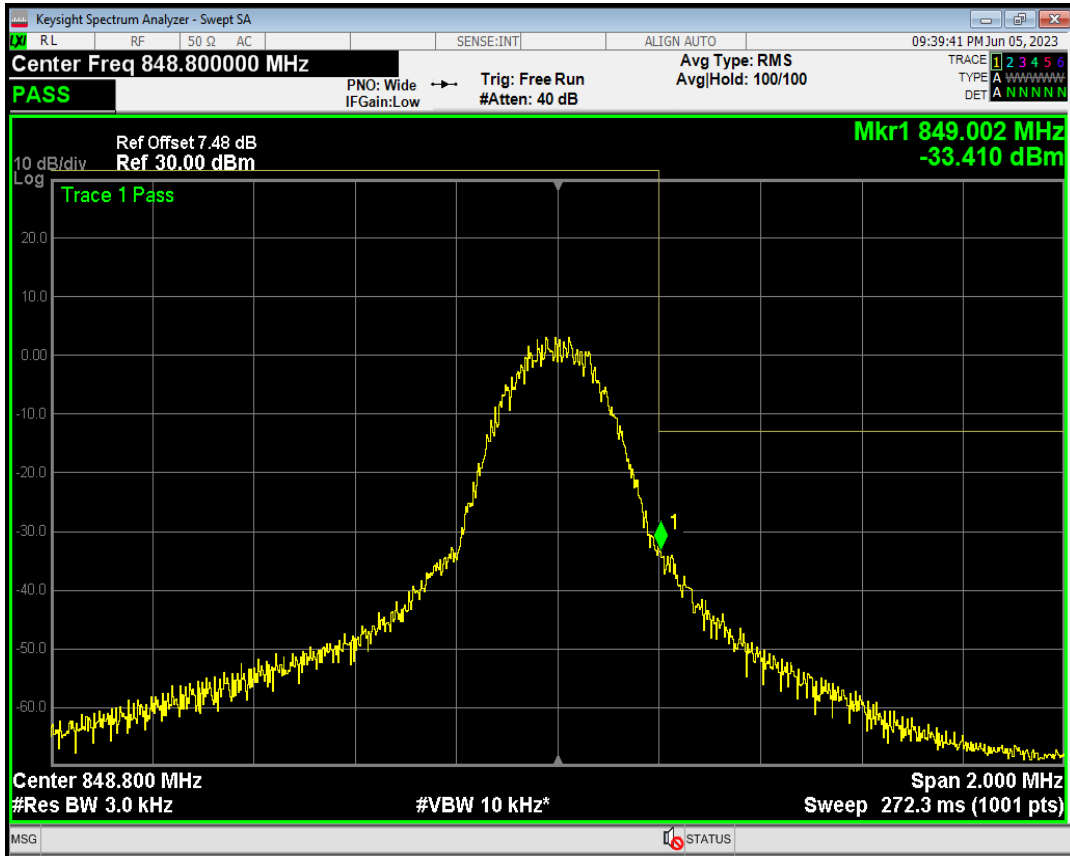
EGPRS1900 Channel=810



EGPRS850 Channel=128



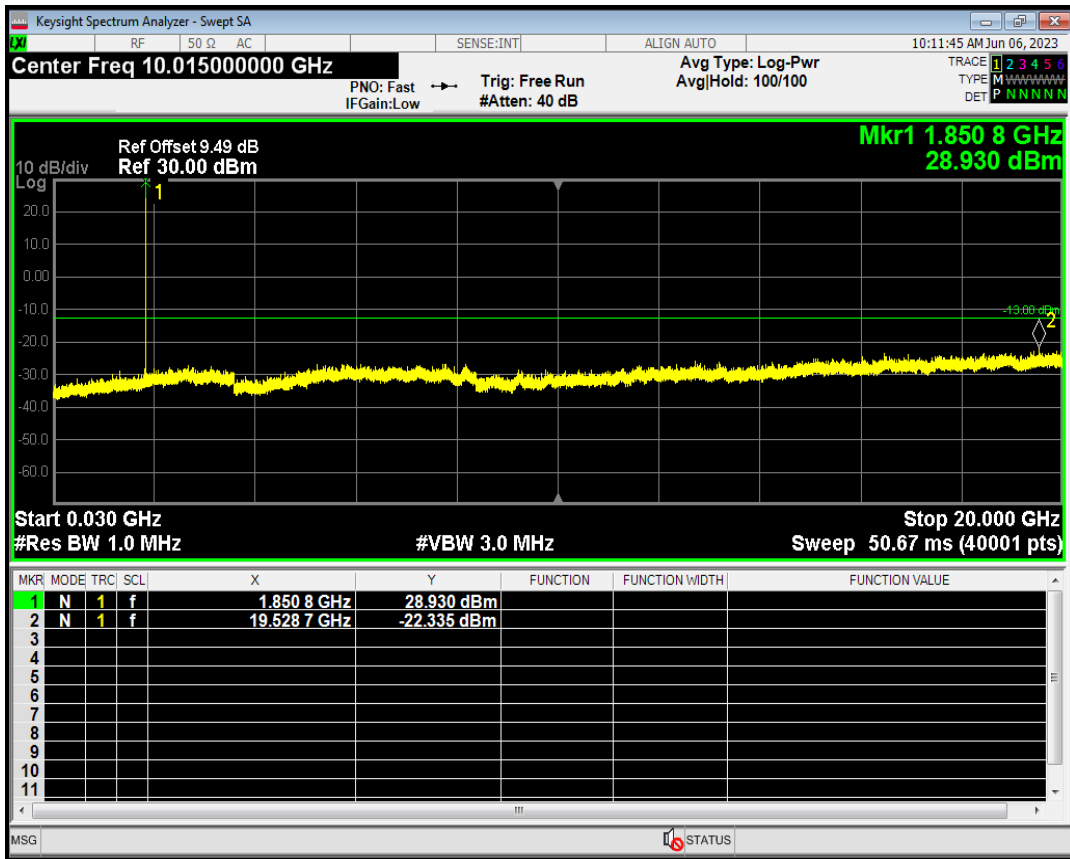
EGPRS850 Channel=251



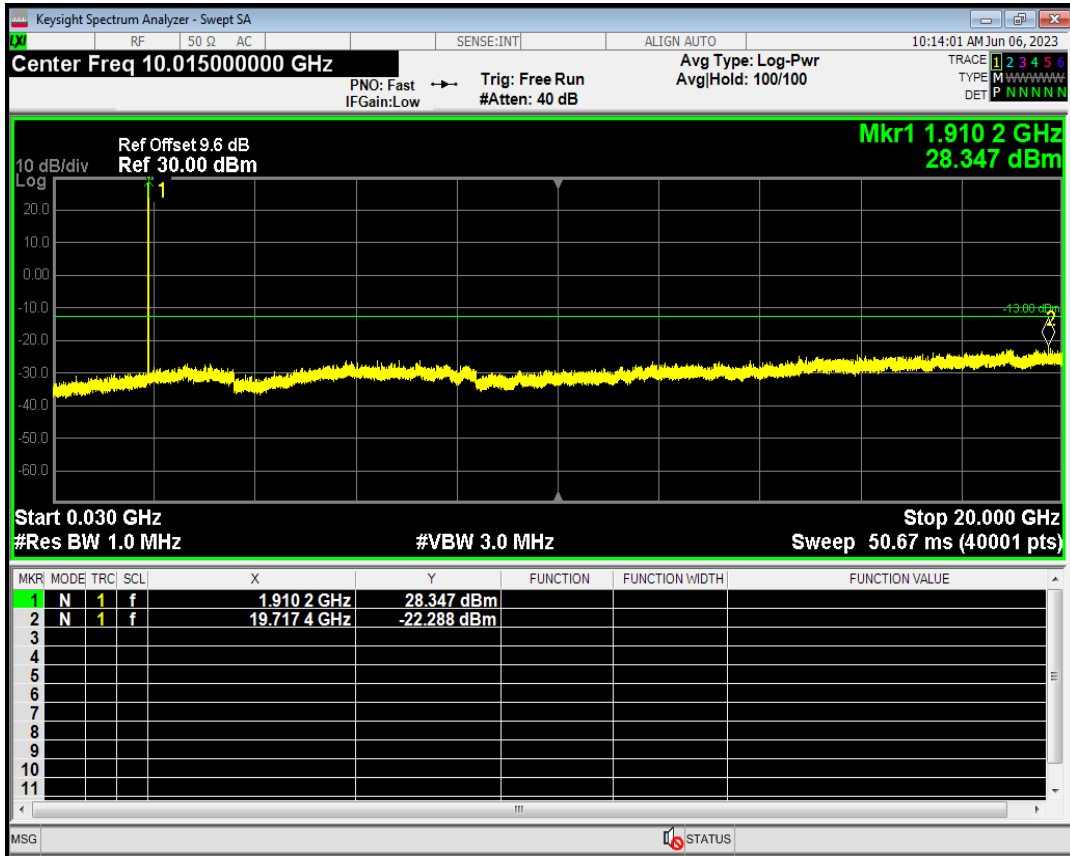
18 Out-of-band emissions

| Band | Channel | Frequency (MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-----------------|------------------|-------------|---------|
| EGPRS1900 | 512 | 1850.2 | 19528.71 | -22.33 | -13 | PASS |
| EGPRS1900 | 661 | 1880 | 18801.80 | -22.14 | -13 | PASS |
| EGPRS1900 | 810 | 1909.8 | 19717.42 | -22.28 | -13 | PASS |
| EGPRS850 | 128 | 824.2 | 7266.48 | -28.08 | -13 | PASS |
| EGPRS850 | 190 | 836.6 | 6263.99 | -29.10 | -13 | PASS |
| EGPRS850 | 251 | 848.8 | 6167.03 | -28.61 | -13 | PASS |

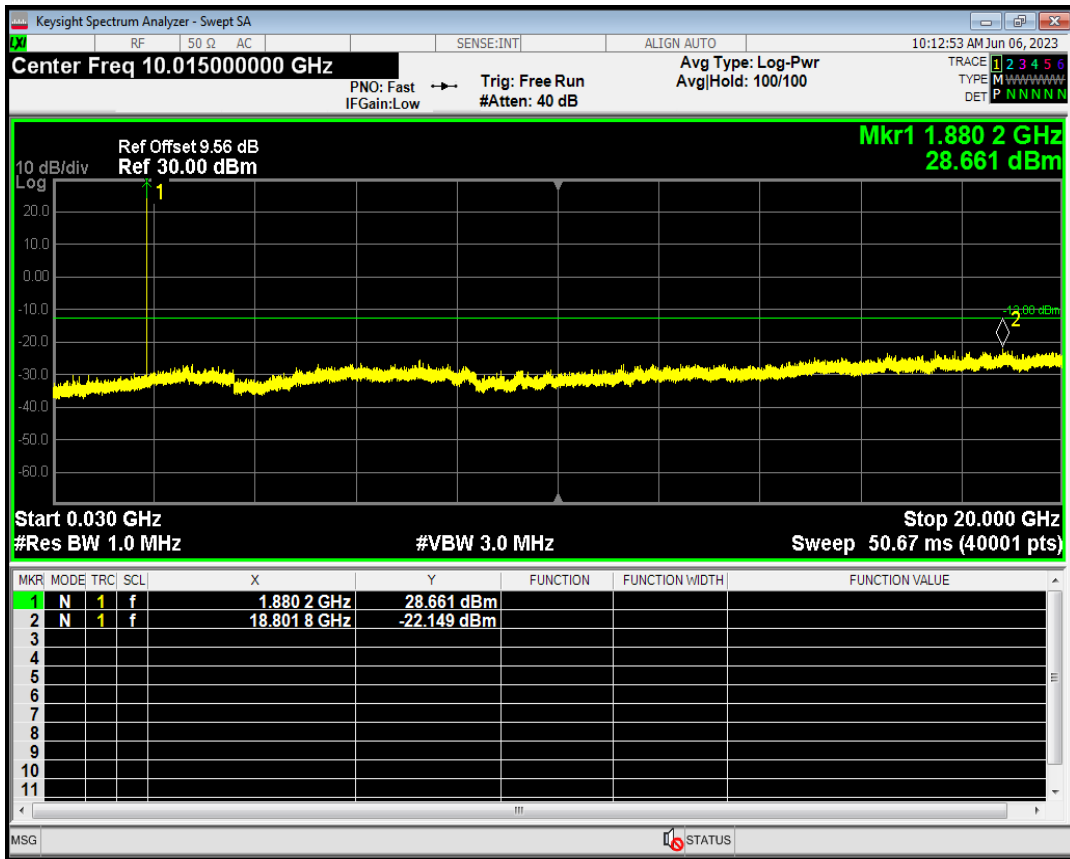
EGPRS1900 Channel=512



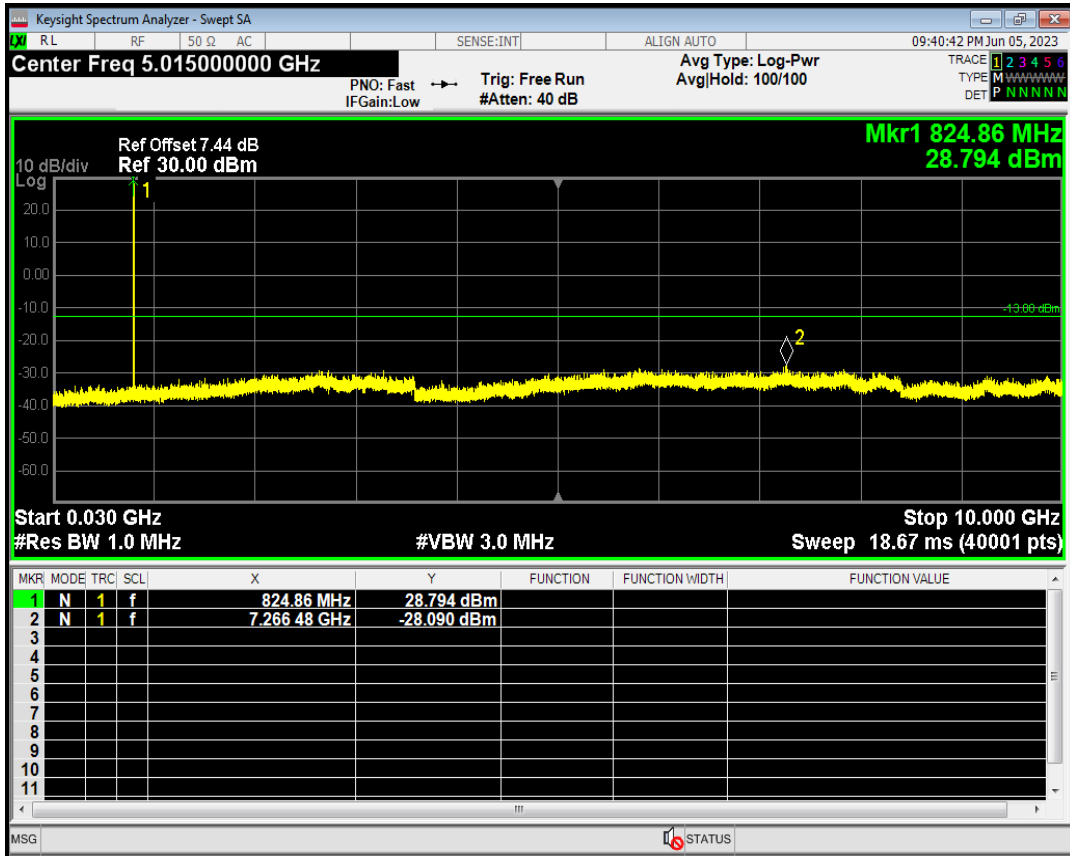
EGPRS1900 Channel=810



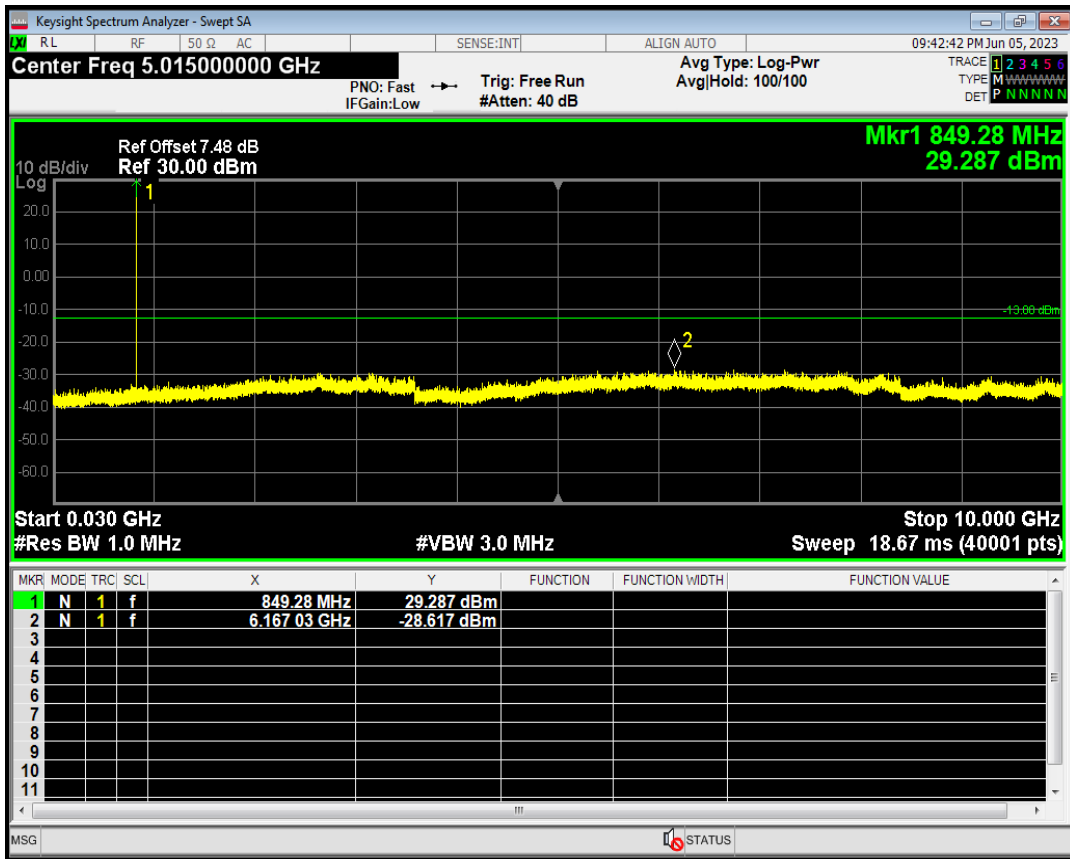
EGPRS1900 Channel=661



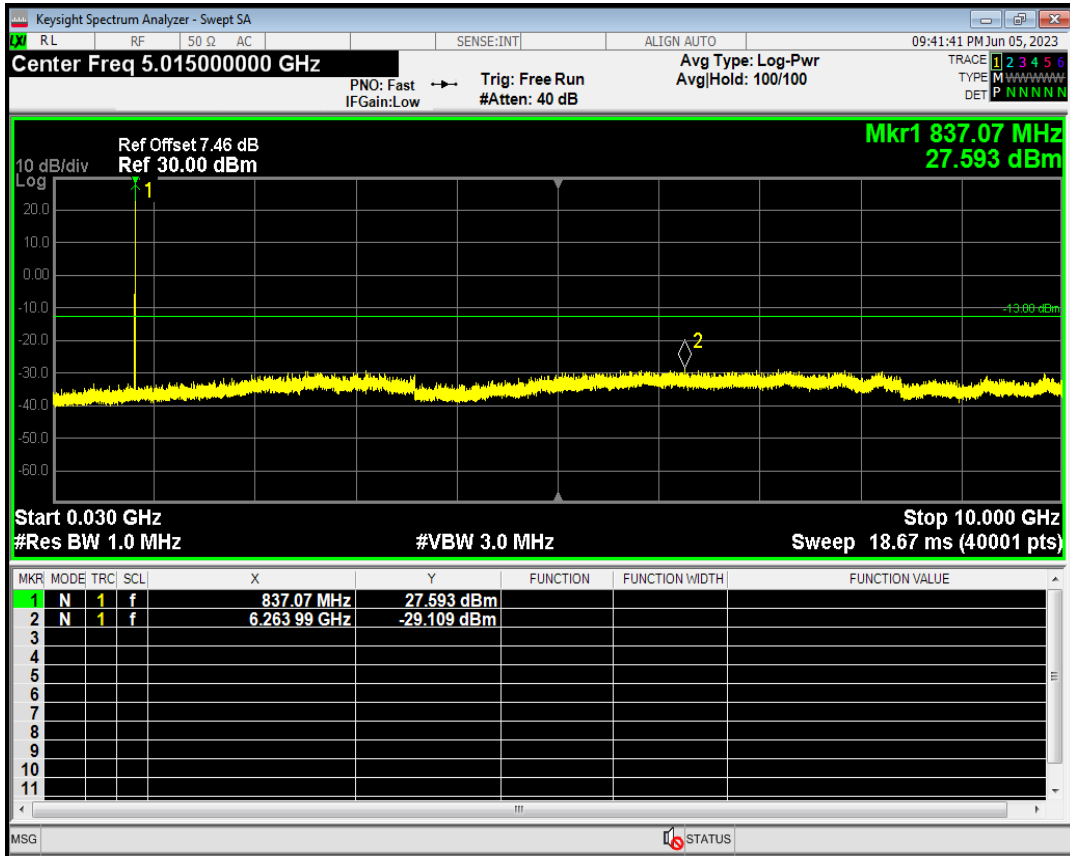
EGPRS850 Channel=128



EGPRS850 Channel=251



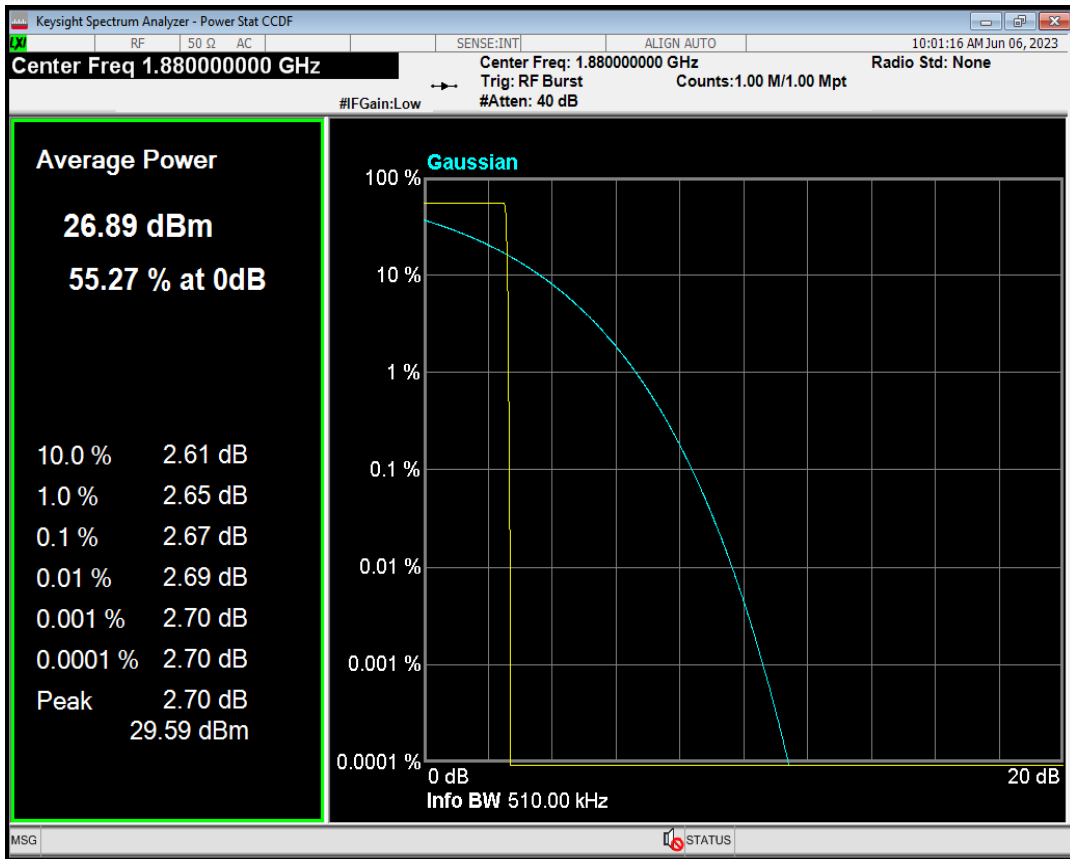
EGPRS850 Channel=190



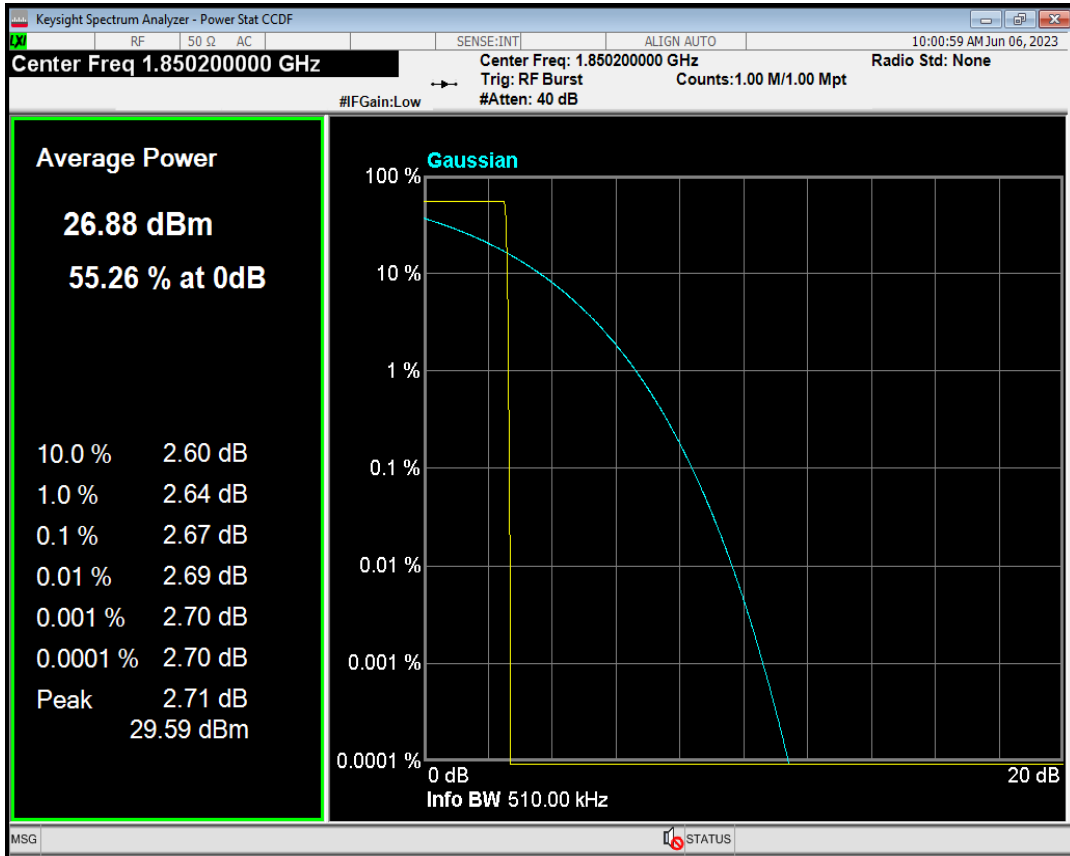
09 Peak-to-Average Ratio

| Band | Channel | Frequency (MHz) | Result (dB) | high Limit (dB) | Verdict |
|----------|---------|-----------------|-------------|-----------------|---------|
| GPRS1900 | 512 | 1850.2 | 2.671668892 | 13.00 | PASS |
| GPRS1900 | 661 | 1880 | 2.674730729 | 13.00 | PASS |
| GPRS1900 | 810 | 1909.8 | 2.669327563 | 13.00 | PASS |
| GPRS850 | 128 | 824.2 | 2.701098592 | 13.00 | PASS |
| GPRS850 | 190 | 836.6 | 2.690844854 | 13.00 | PASS |
| GPRS850 | 251 | 848.8 | 2.686335797 | 13.00 | PASS |

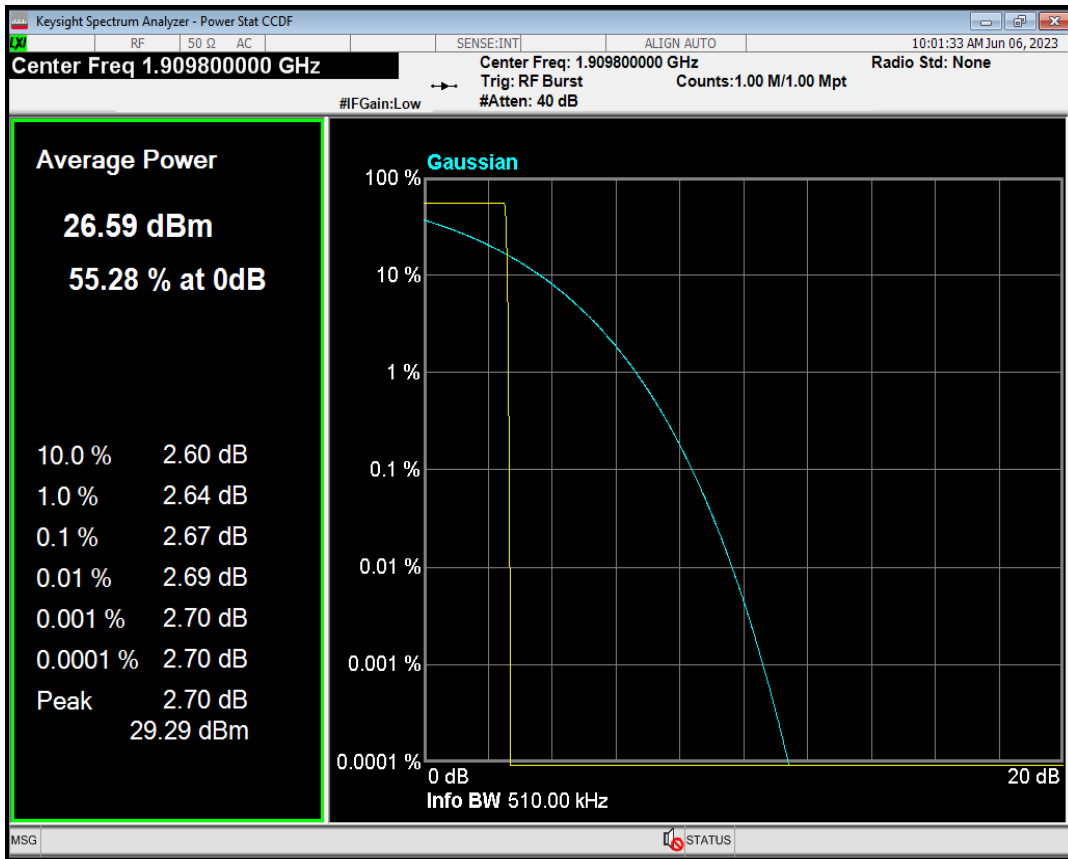
GPRS1900 Channel=661



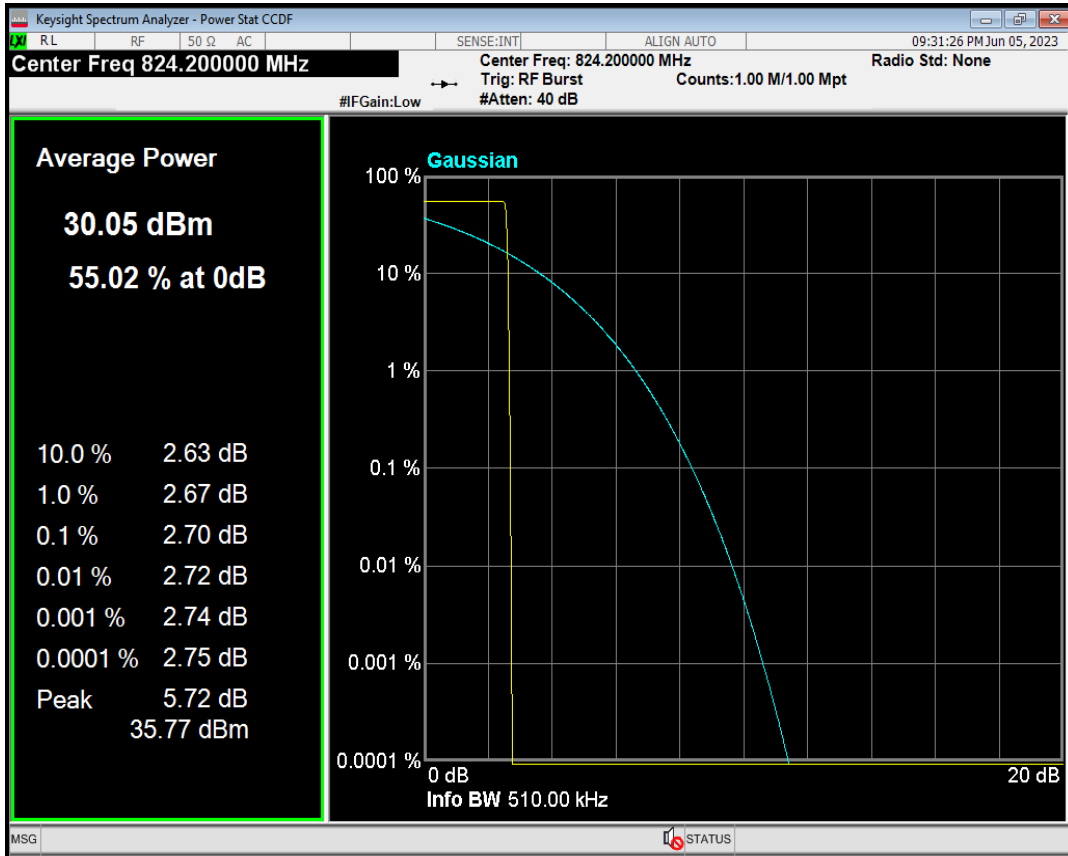
GPRS1900 Channel=512



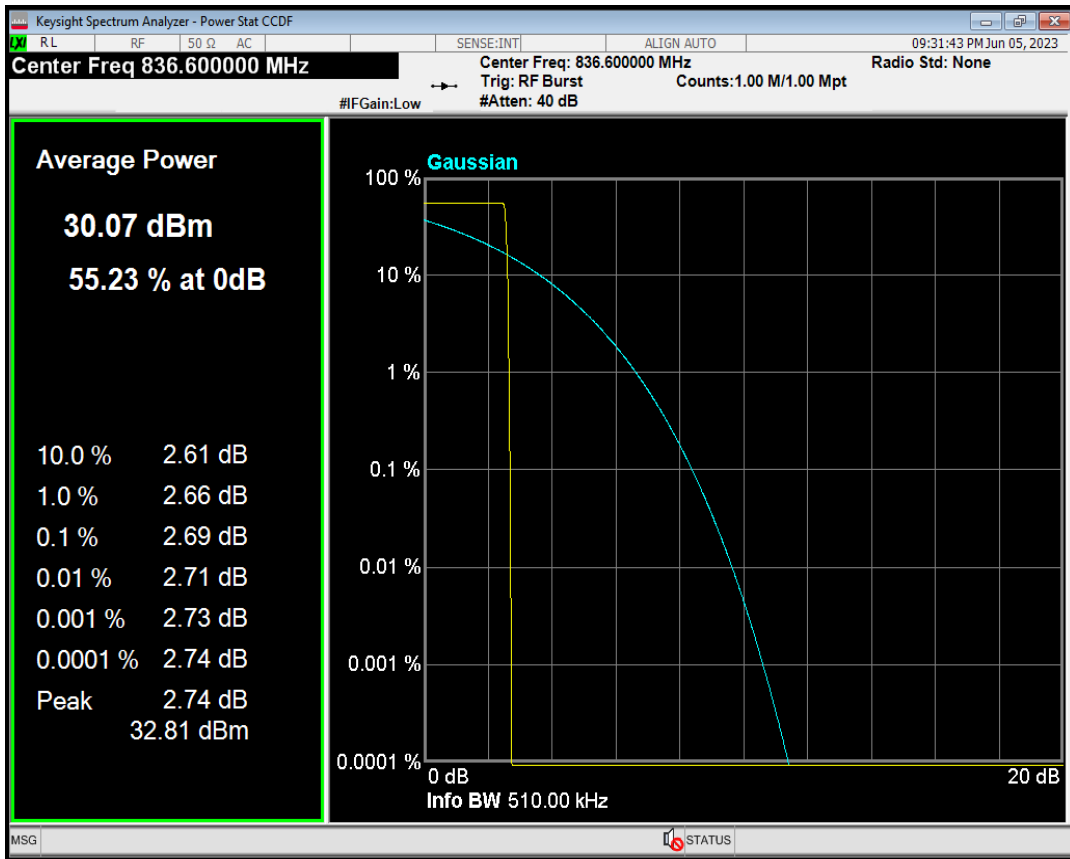
GPRS1900 Channel=810



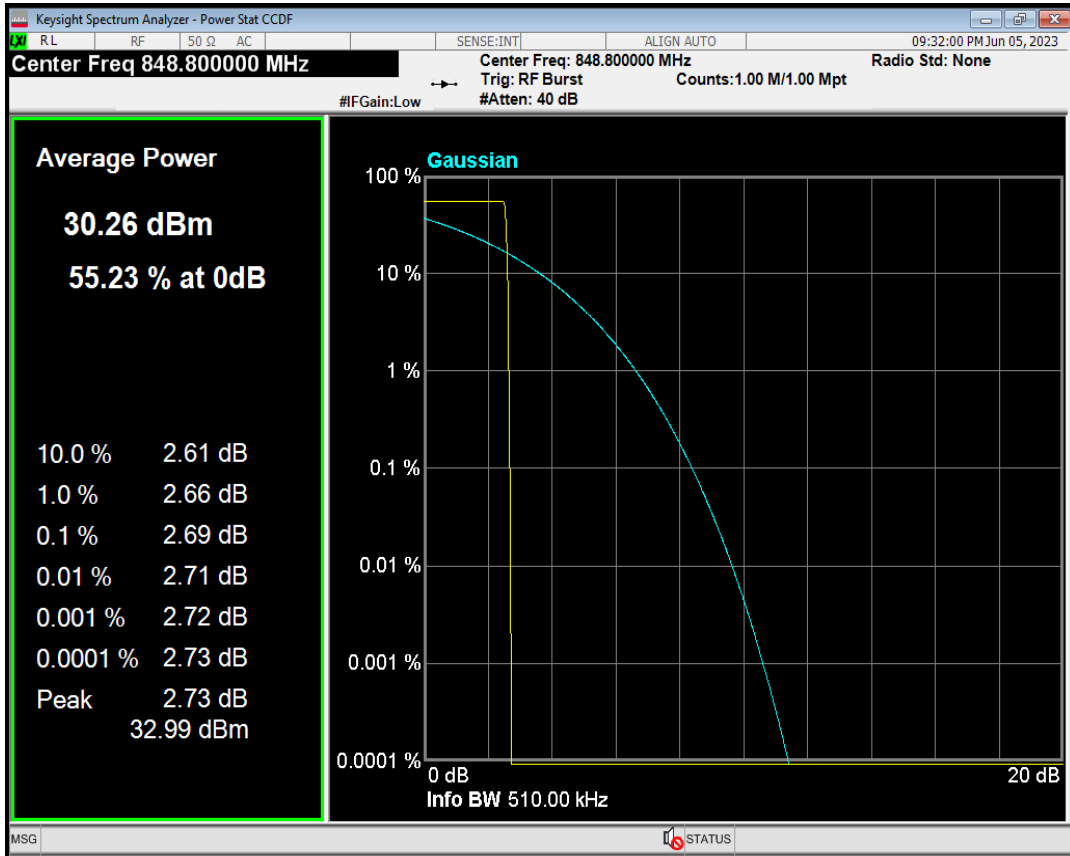
GPRS850 Channel=128



GPRS850 Channel=190



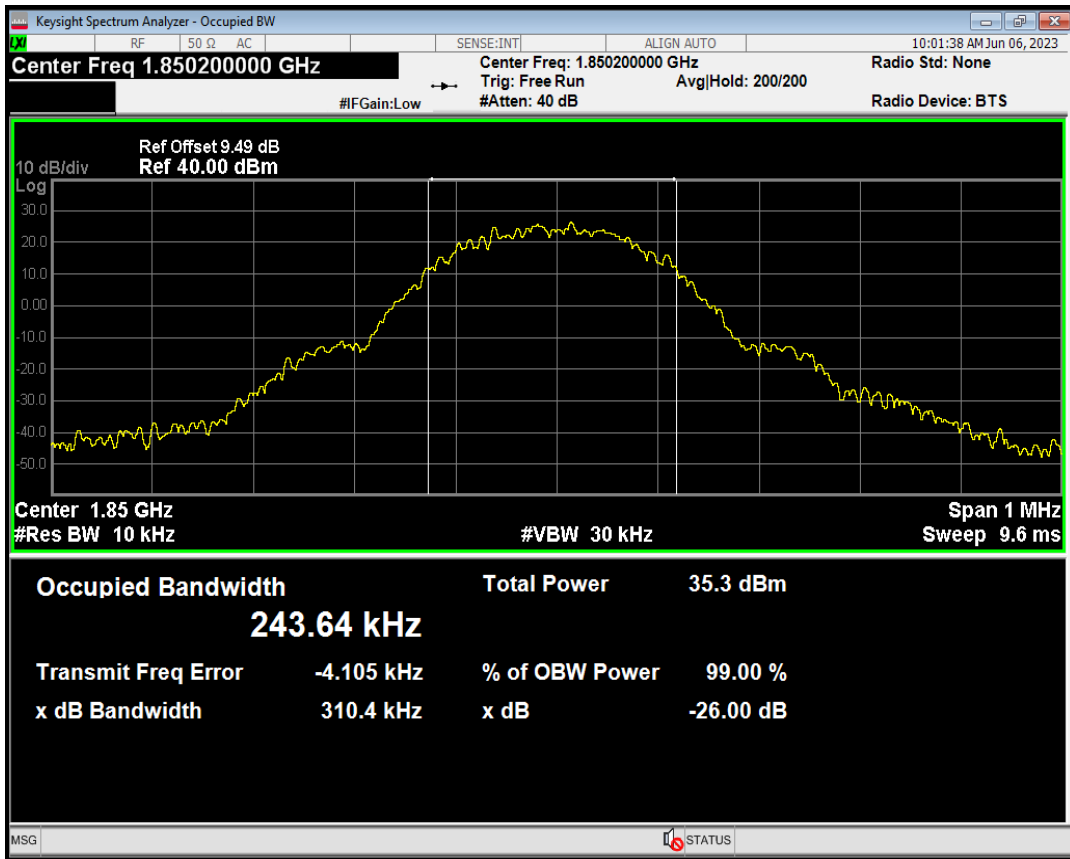
GPRS850 Channel=251



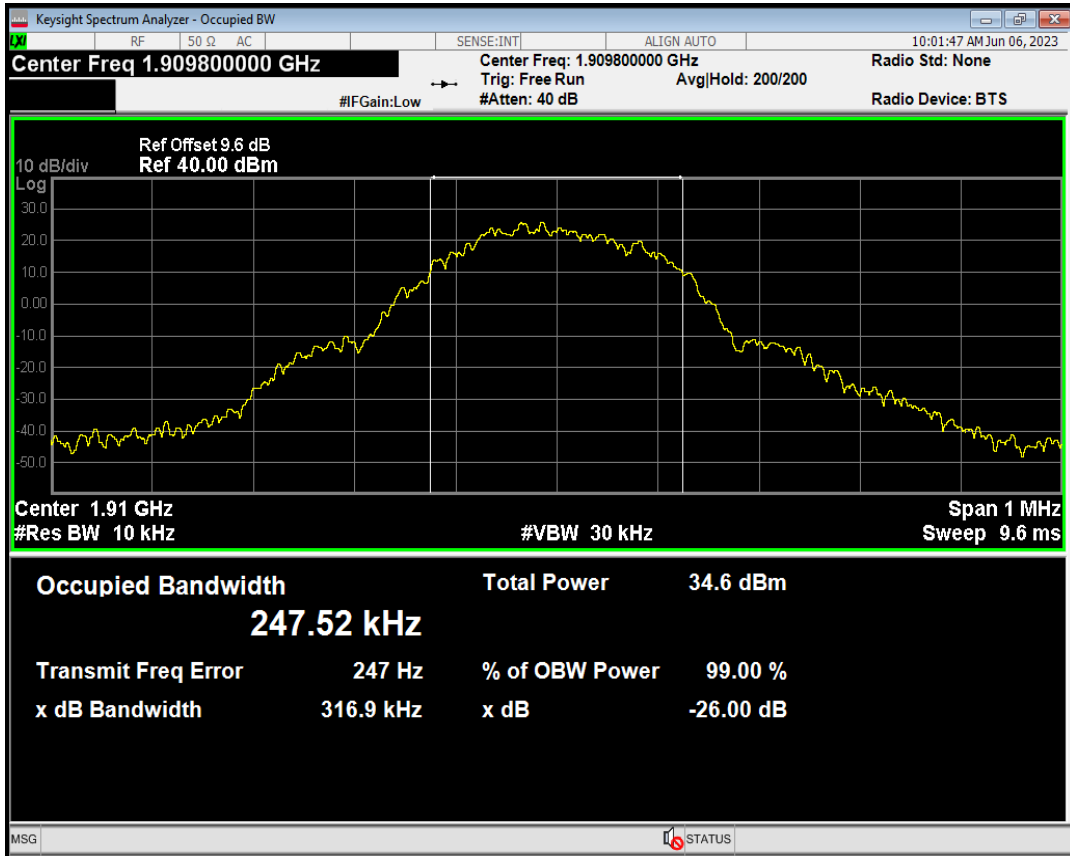
10 Occupied bandwidth

| Band | Channel | Frequency (MHz) | 99% OBW (kHz) | -26dB EBW (kHz) | Verdict |
|----------|---------|-----------------|---------------|-----------------|---------|
| GPRS1900 | 512 | 1850.2 | 243.644 | 310.377 | PASS |
| GPRS1900 | 661 | 1880 | 241.341 | 312.570 | PASS |
| GPRS1900 | 810 | 1909.8 | 247.524 | 316.883 | PASS |
| GPRS850 | 128 | 824.2 | 244.137 | 305.658 | PASS |
| GPRS850 | 190 | 836.6 | 242.177 | 318.975 | PASS |
| GPRS850 | 251 | 848.8 | 243.316 | 316.430 | PASS |

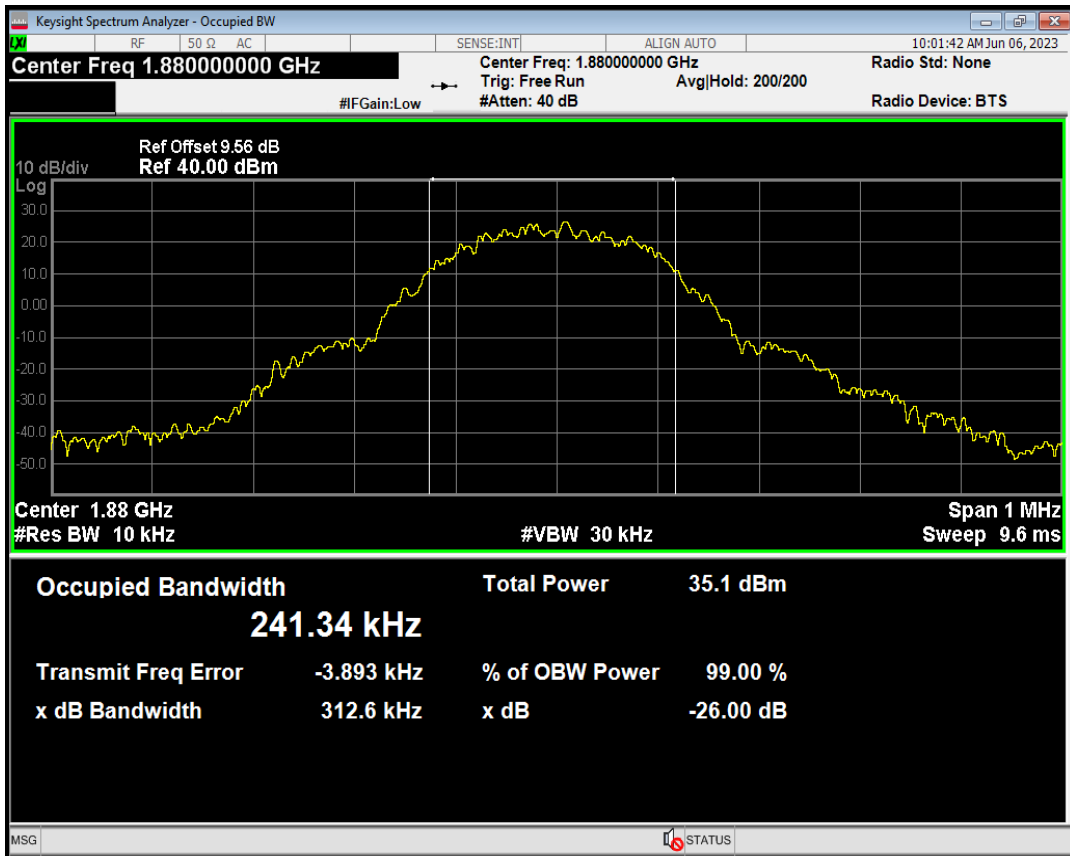
GPRS1900 Channel=512



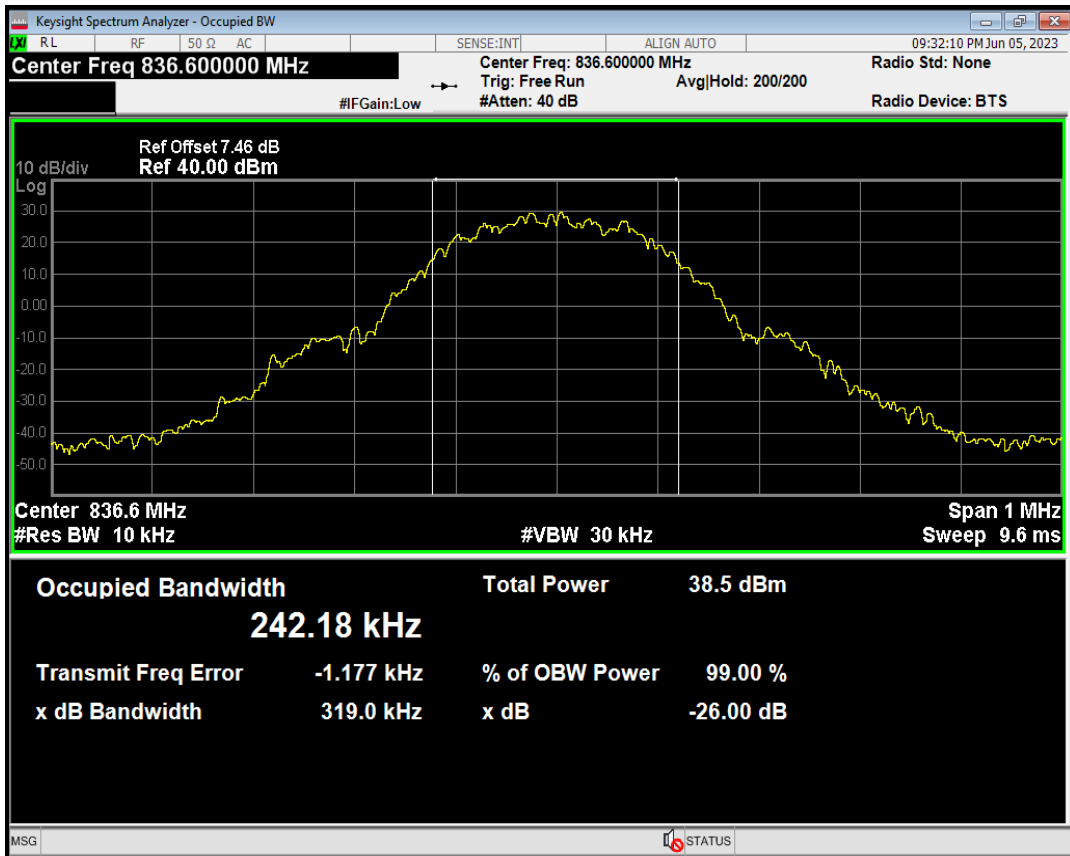
GPRS1900 Channel=810



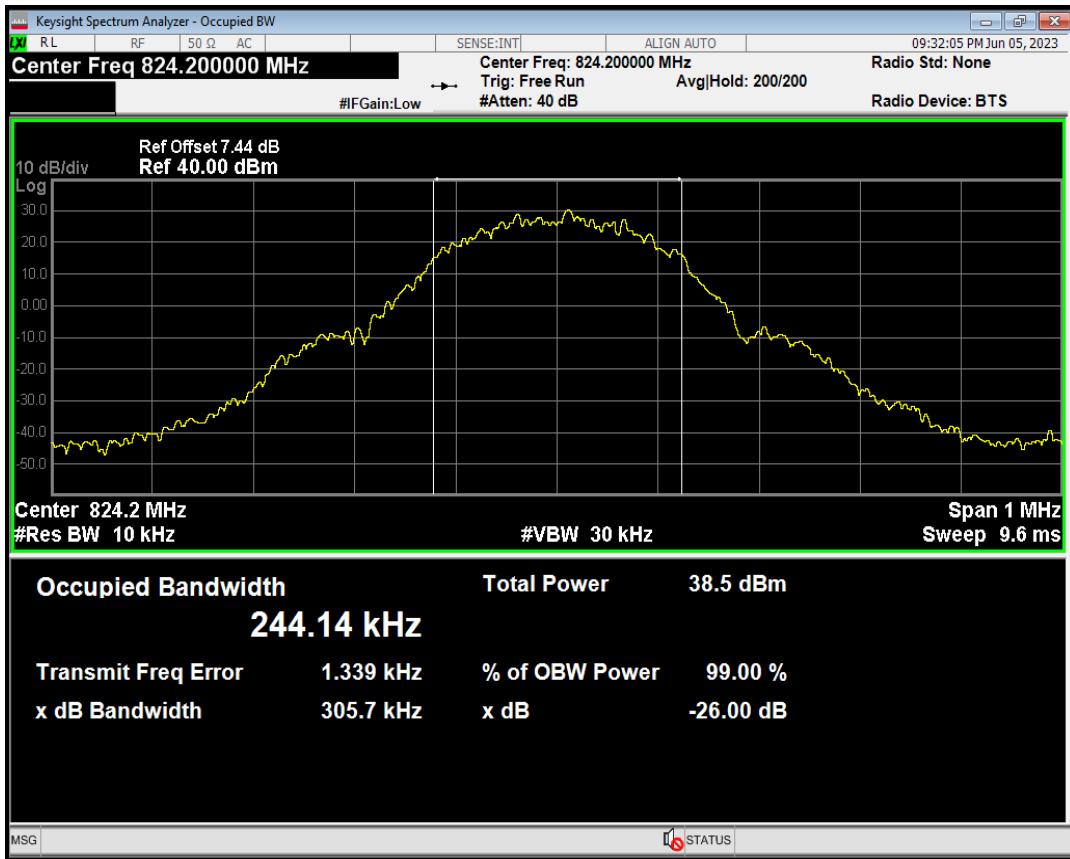
GPRS1900 Channel=661



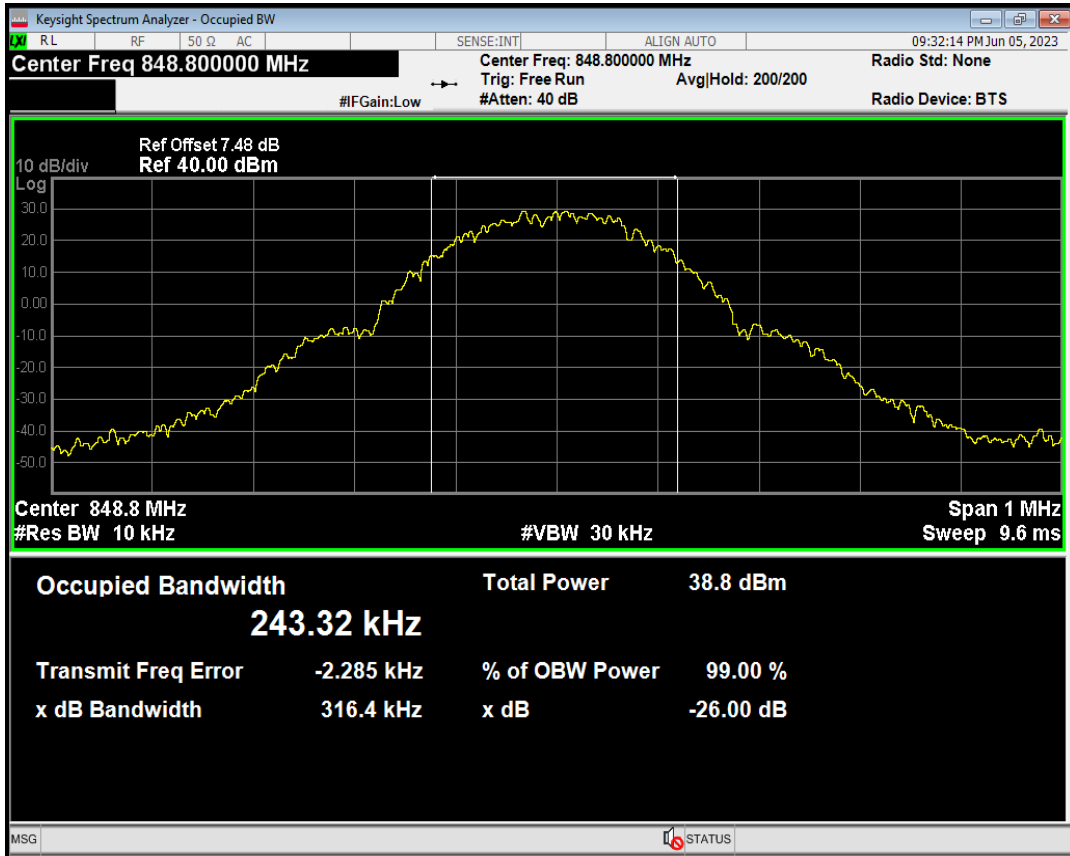
GPRS850 Channel=190



GPRS850 Channel=128



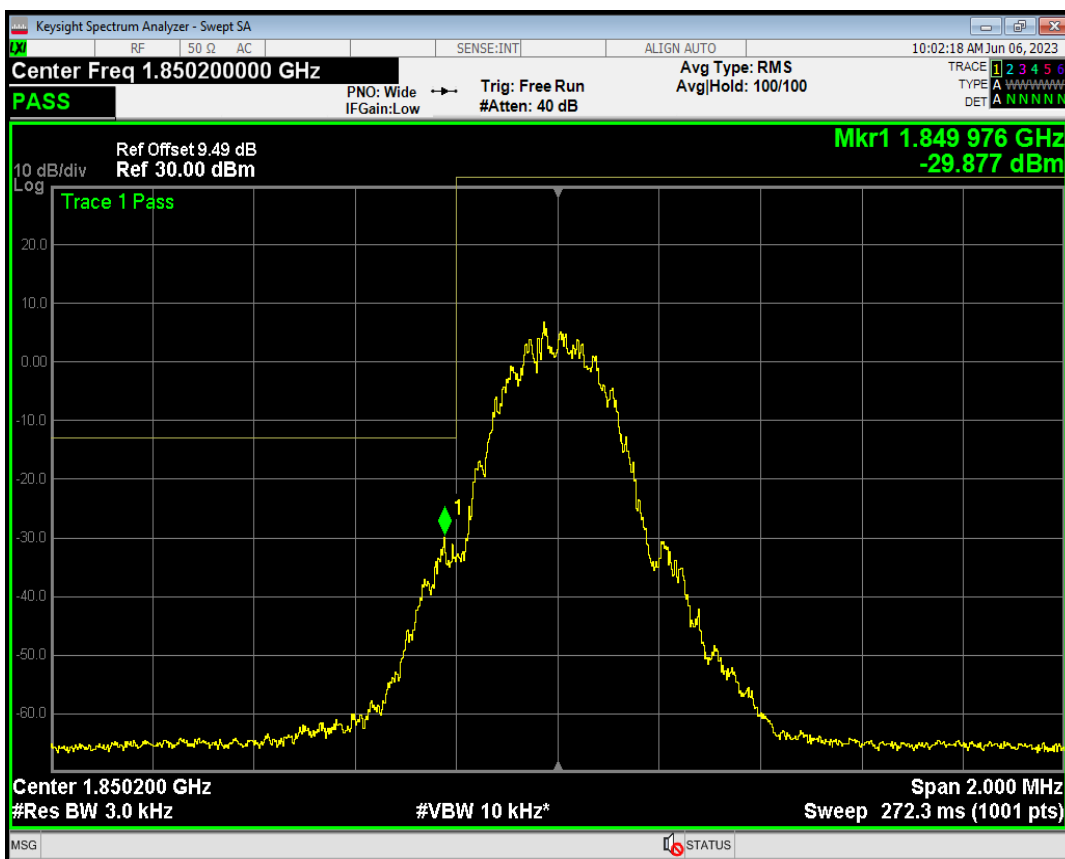
GPRS850 Channel=251



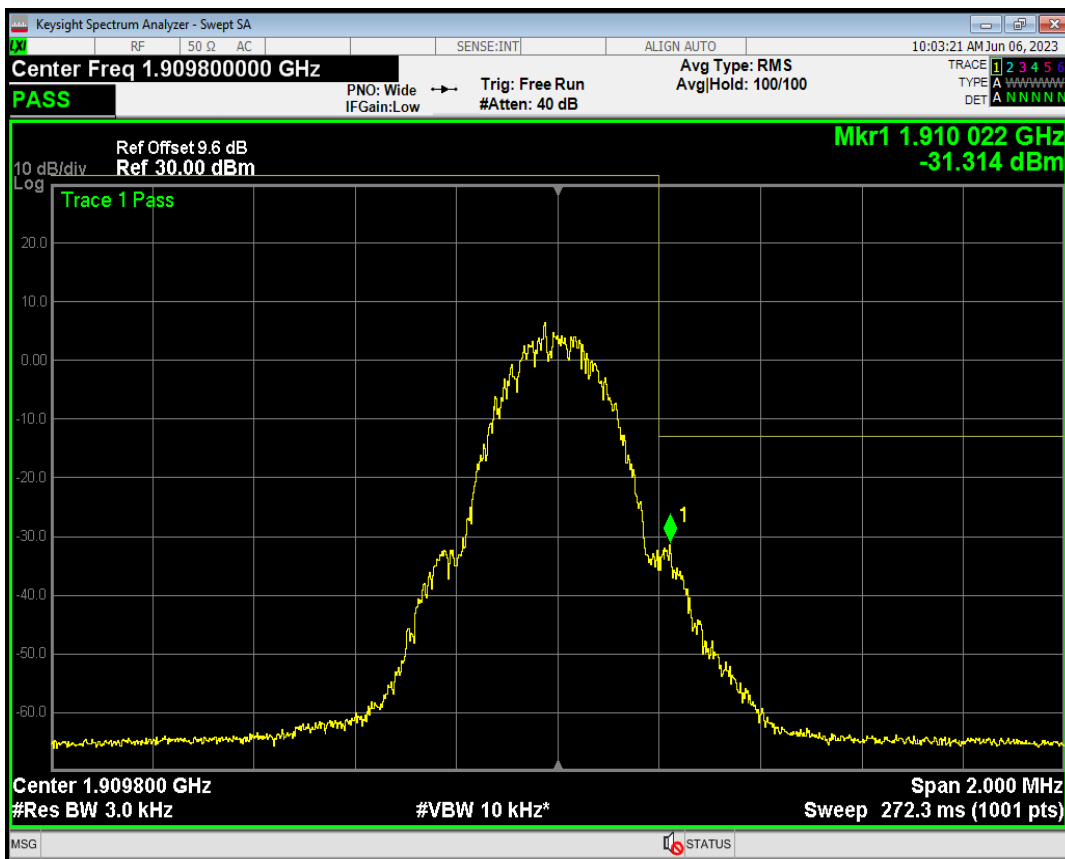
11 Band edge

| Band | Channel | Frequency (MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|----------|---------|-----------------|-----------------|------------------|-------------|---------|
| GPRS1900 | 512 | 1850.2 | 1849.98 | -29.87 | -13 | PASS |
| GPRS1900 | 810 | 1909.8 | 1910.02 | -31.31 | -13 | PASS |
| GPRS850 | 128 | 824.2 | 823.98 | -27.38 | -13 | PASS |
| GPRS850 | 190 | 836.6 | 0.00 | 0.00 | -13 | FAIL |
| GPRS850 | 251 | 848.8 | 849.02 | -27.33 | -13 | PASS |

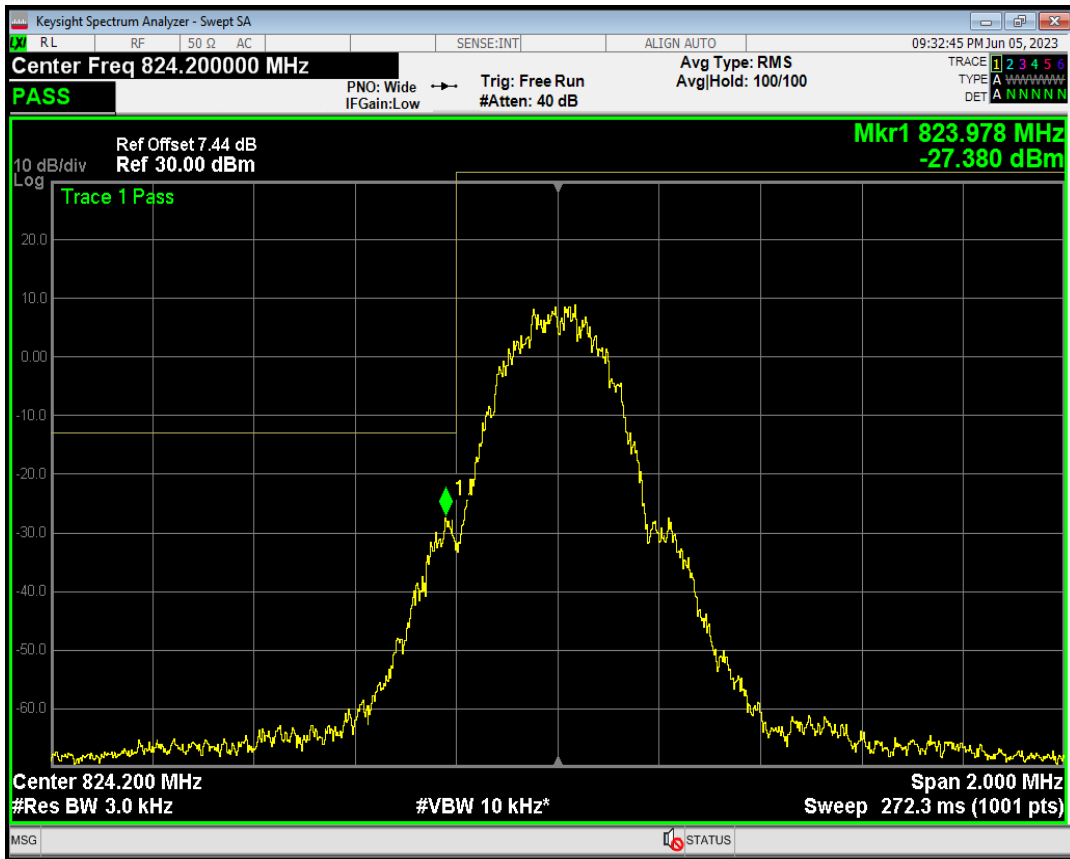
GPRS1900 Channel=512



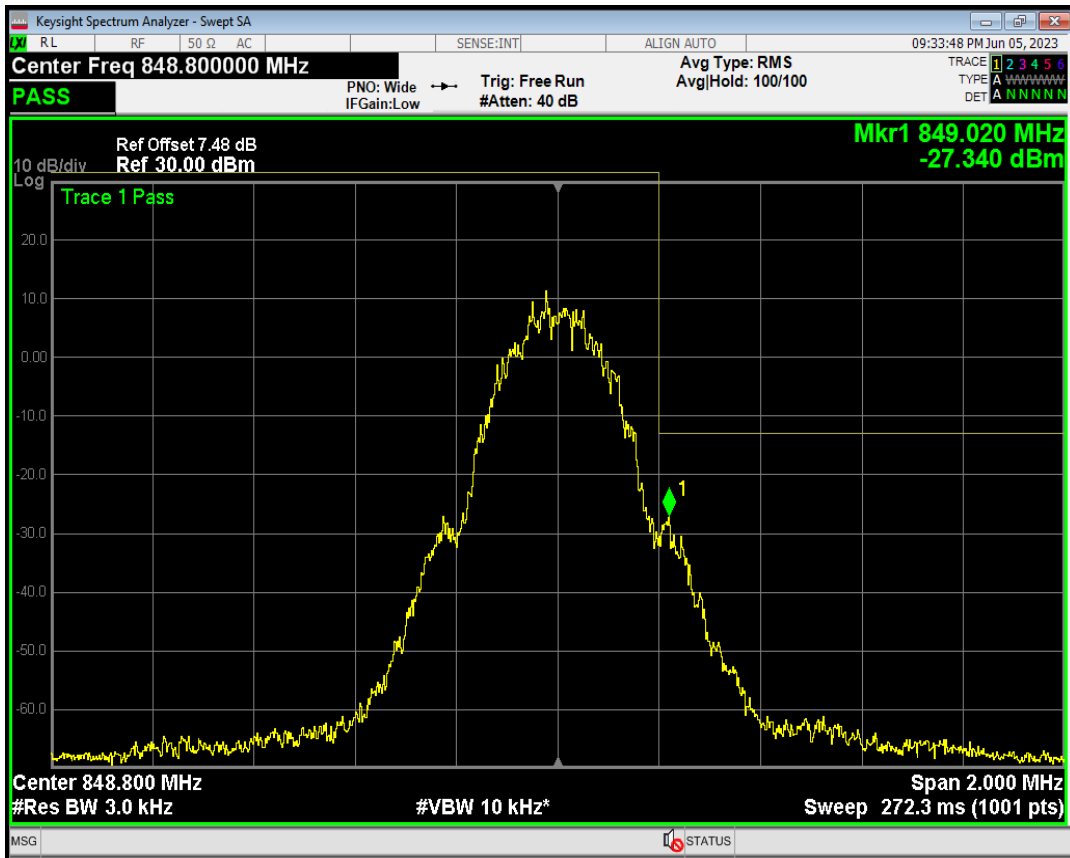
GPRS1900 Channel=810



GPRS850 Channel=128



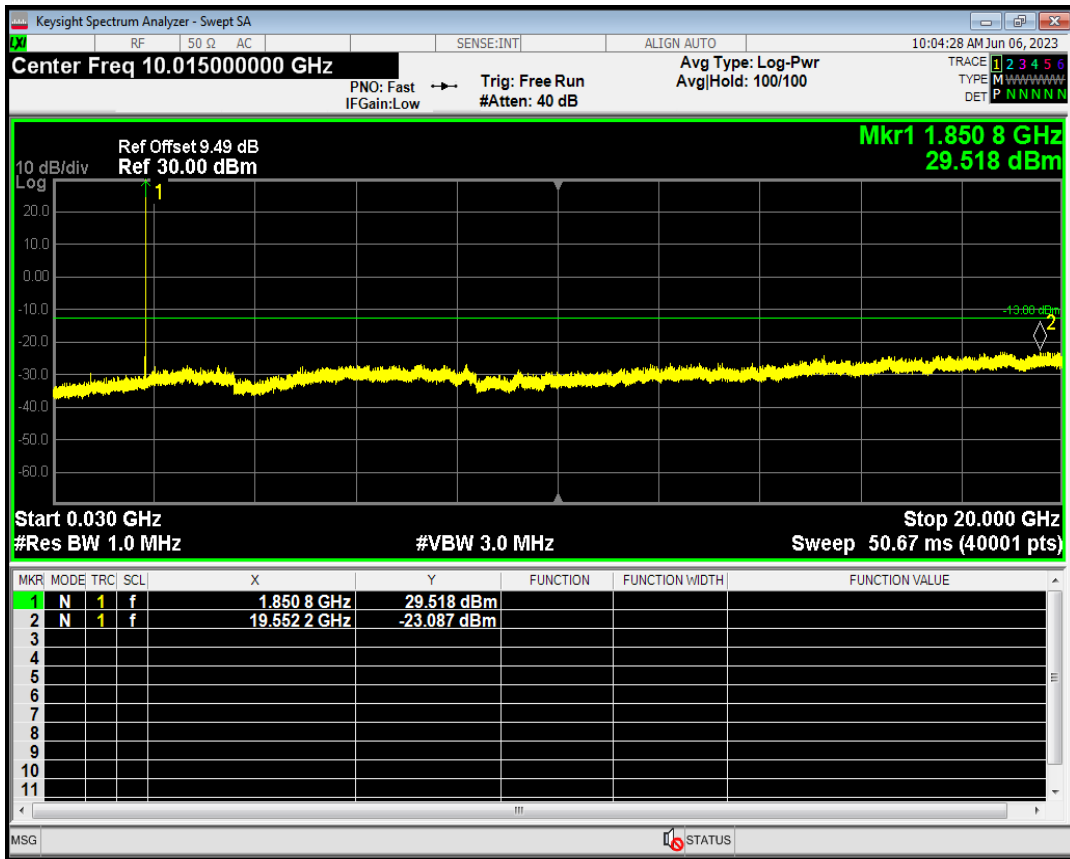
GPRS850 Channel=251



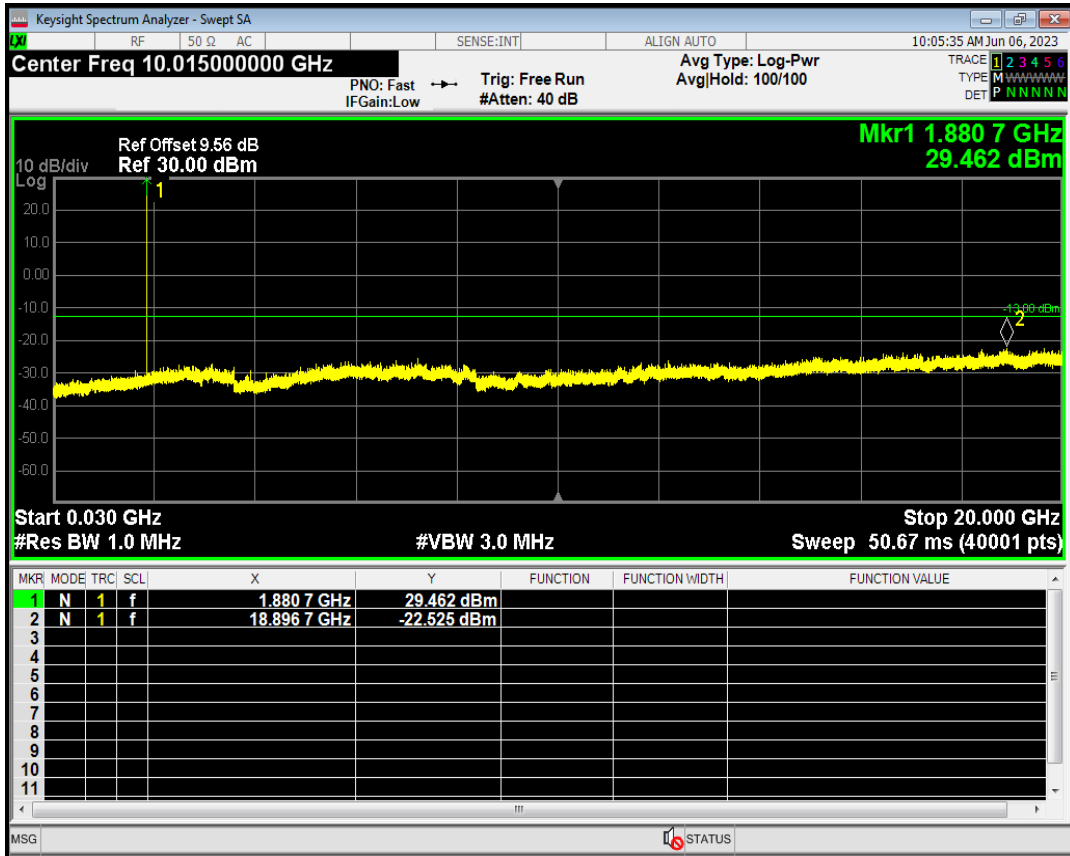
12 Out-of-band emissions

| Band | Channel | Frequency (MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|----------|---------|-----------------|-----------------|------------------|-------------|---------|
| GPRS1900 | 512 | 1850.2 | 19552.17 | -23.08 | -13 | PASS |
| GPRS1900 | 661 | 1880 | 18896.66 | -22.52 | -13 | PASS |
| GPRS1900 | 810 | 1909.8 | 18906.64 | -22.81 | -13 | PASS |
| GPRS850 | 128 | 824.2 | 5904.07 | -27.95 | -13 | PASS |
| GPRS850 | 190 | 836.6 | 5944.70 | -28.17 | -13 | PASS |
| GPRS850 | 251 | 848.8 | 7305.36 | -28.30 | -13 | PASS |

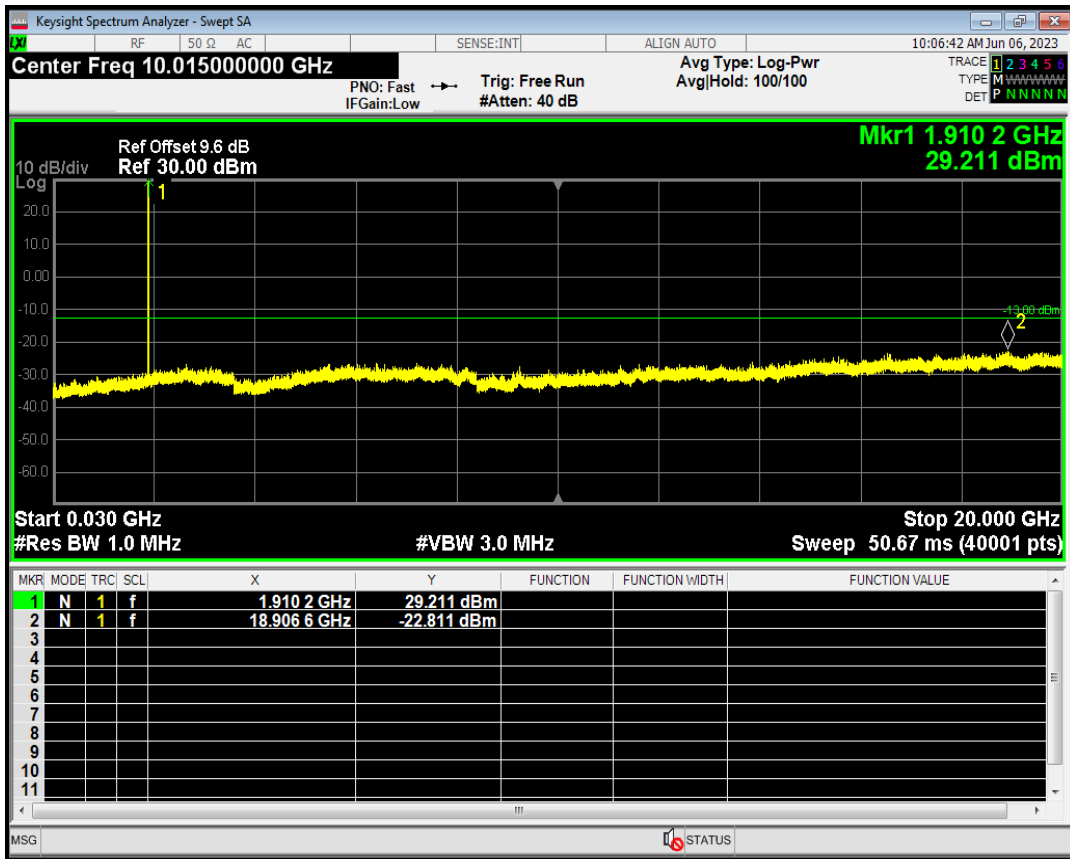
GPRS1900 Channel=512



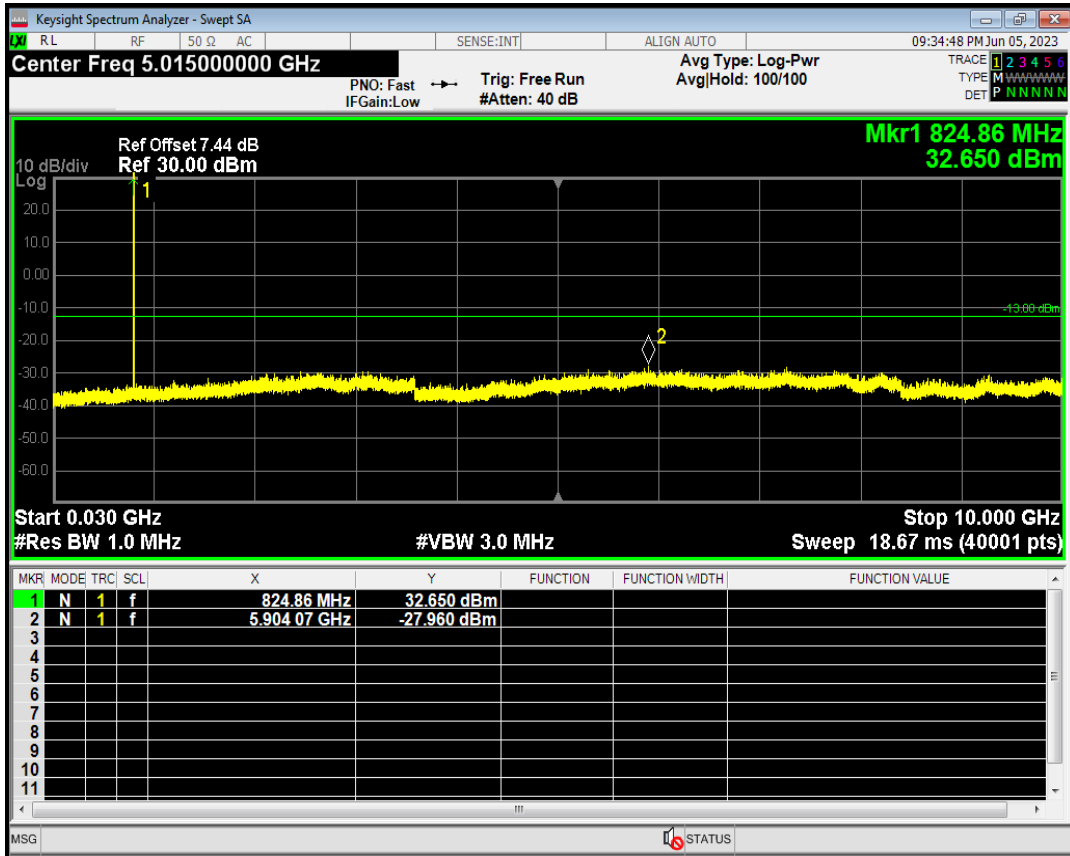
GPRS1900 Channel=661



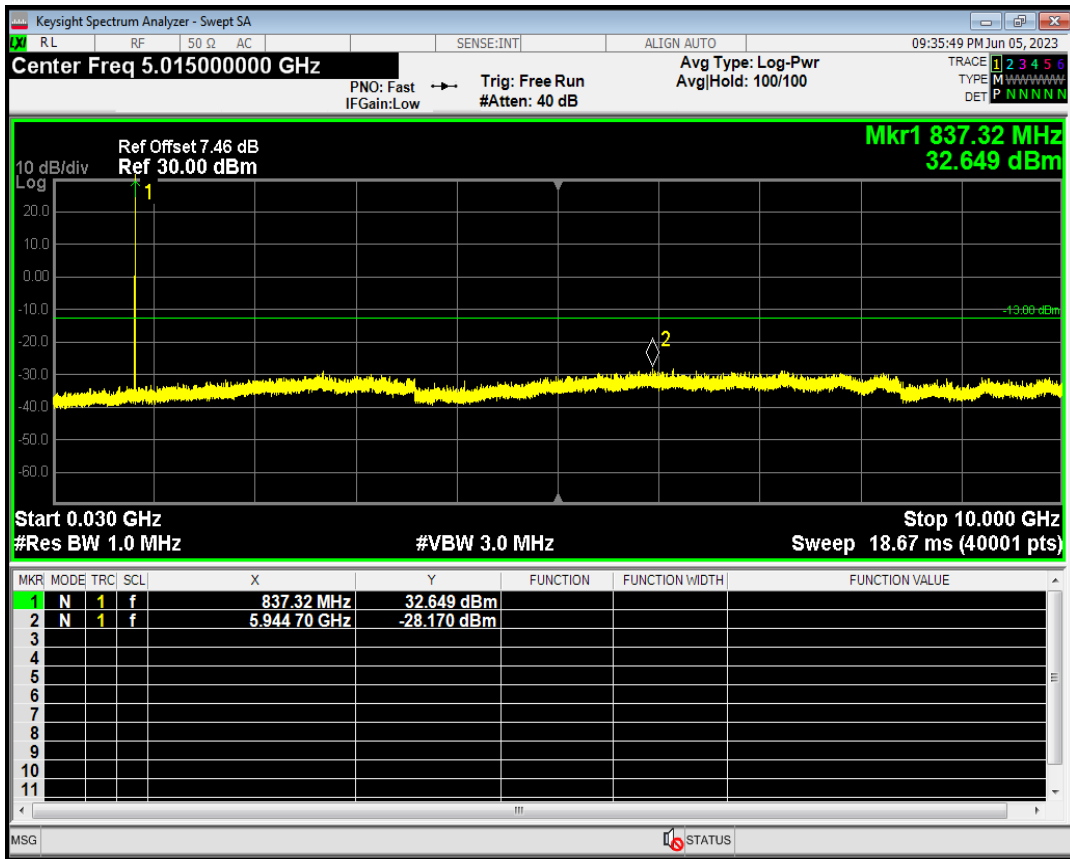
GPRS1900 Channel=810



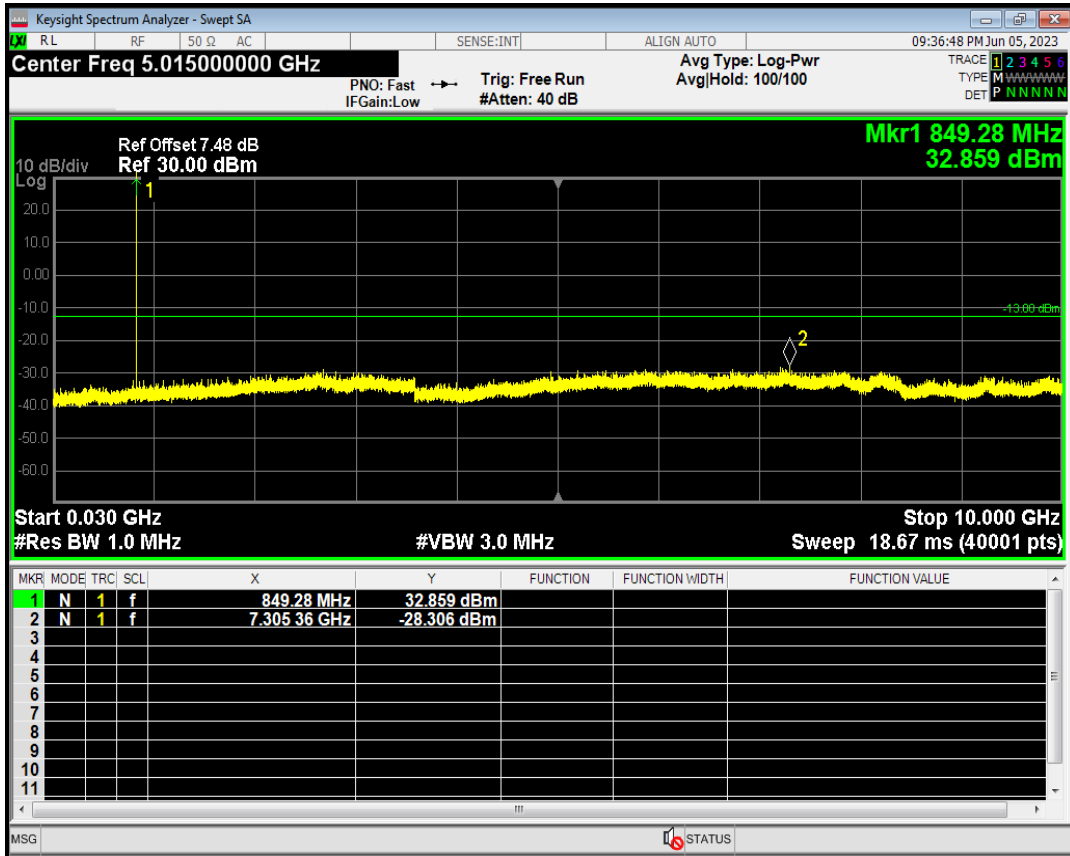
GPRS850 Channel=128



GPRS850 Channel=190



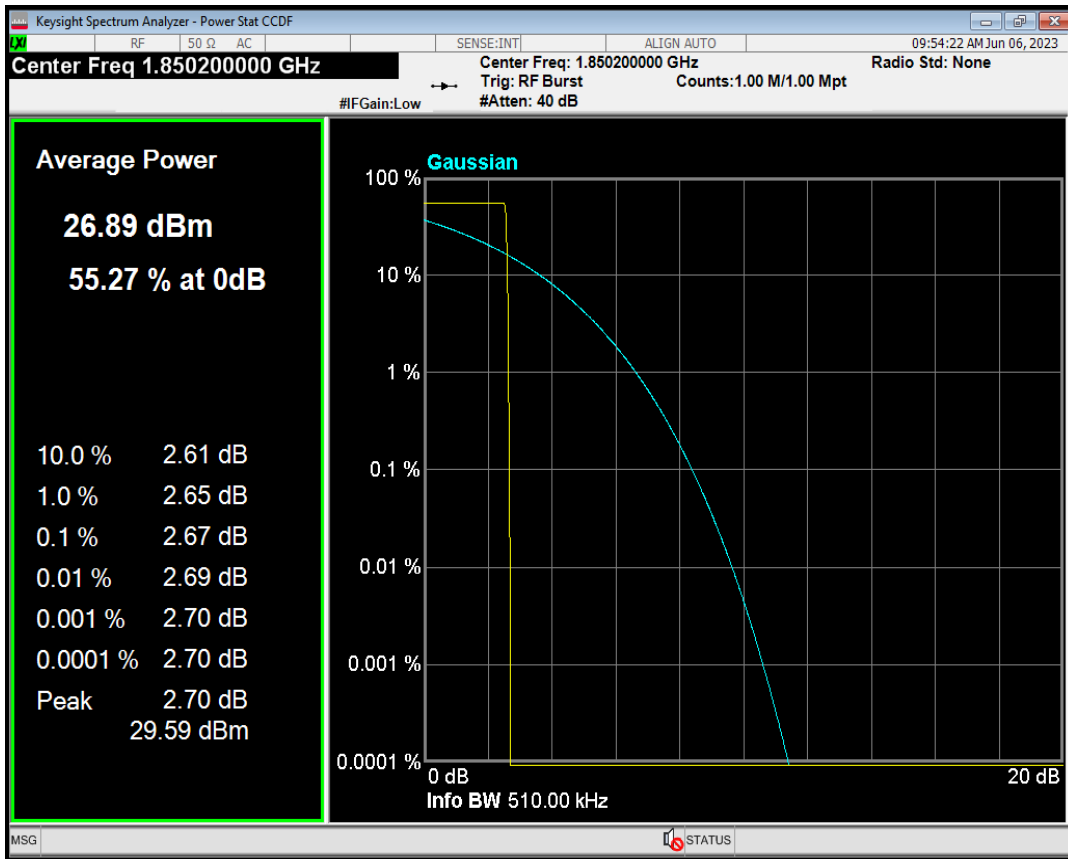
GPRS850 Channel=251



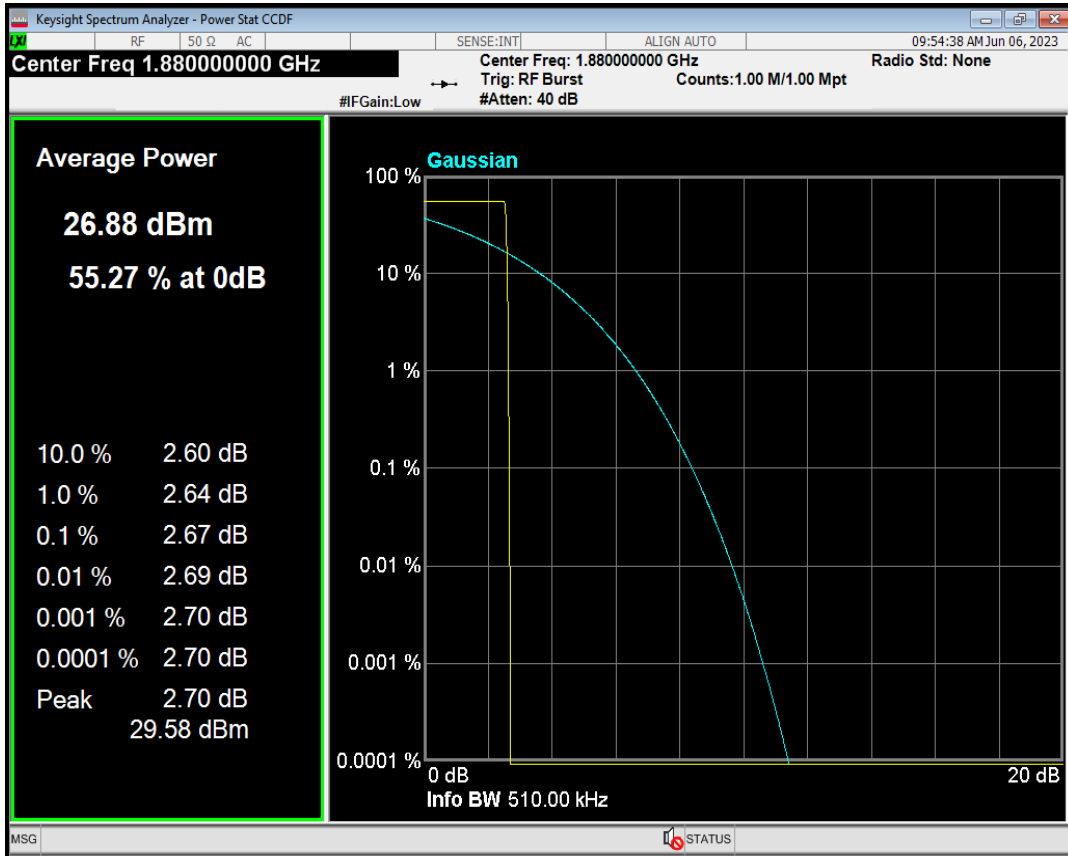
03 Peak-to-Average Ratio

| Band | Channel | Frequency (MHz) | Result (dB) | high Limit (dB) | Verdict |
|---------|---------|-----------------|-------------|-----------------|---------|
| GSM1900 | 512 | 1850.2 | 2.67 | 13 | PASS |
| GSM1900 | 661 | 1880 | 2.67 | 13 | PASS |
| GSM1900 | 810 | 1909.8 | 2.67 | 13 | PASS |
| GSM850 | 128 | 824.2 | 2.68 | 13 | PASS |
| GSM850 | 190 | 836.6 | 2.68 | 13 | PASS |
| GSM850 | 251 | 848.8 | 2.69 | 13 | PASS |

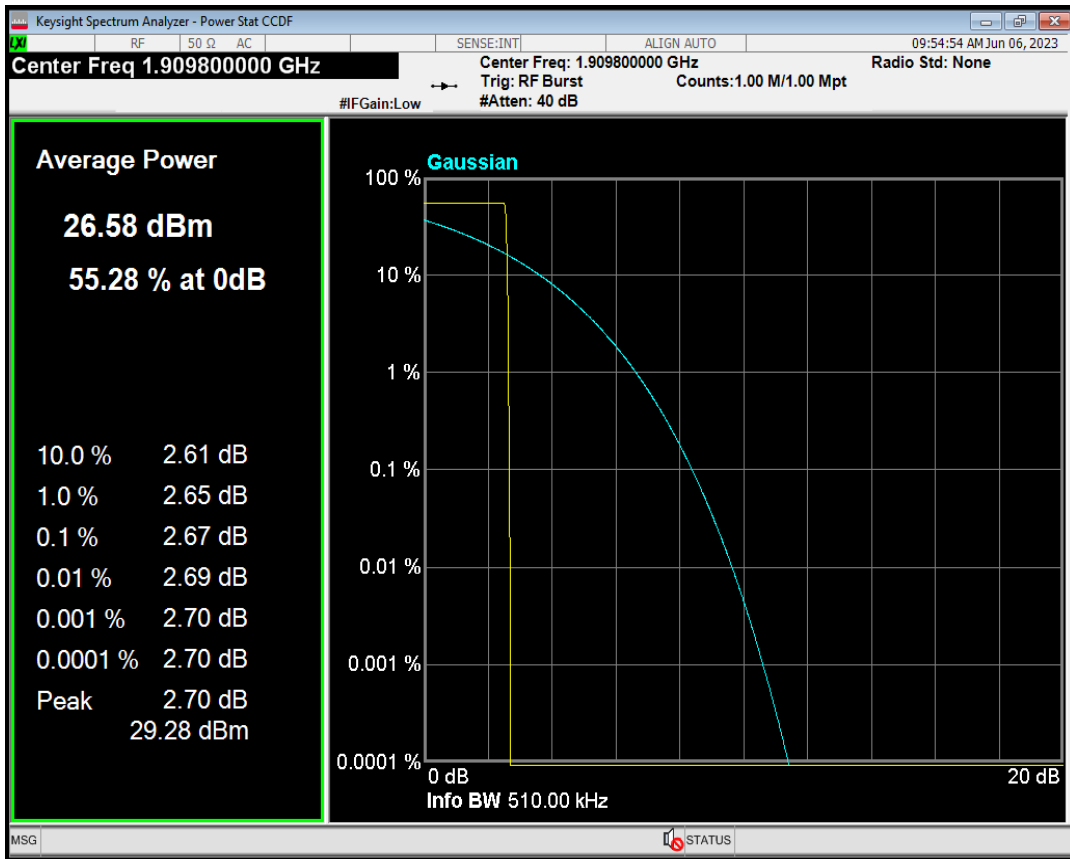
GSM1900 Channel=512



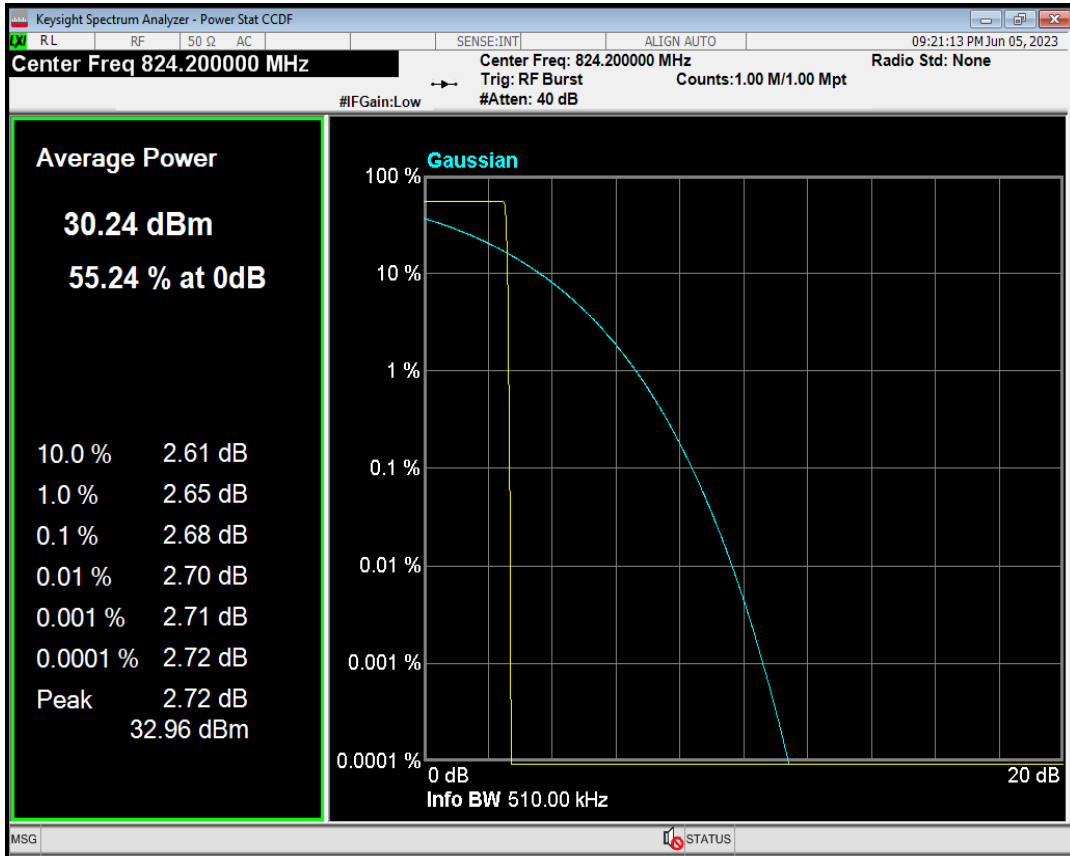
GSM1900 Channel=661



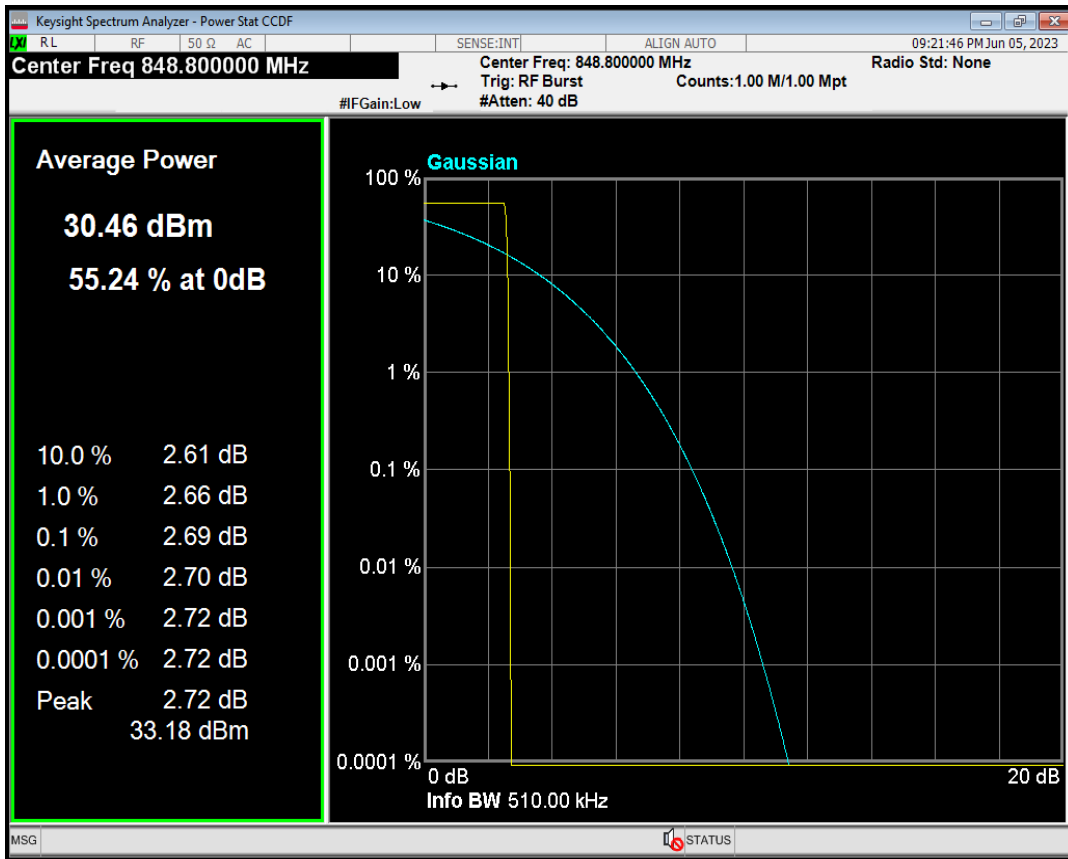
GSM1900 Channel=810



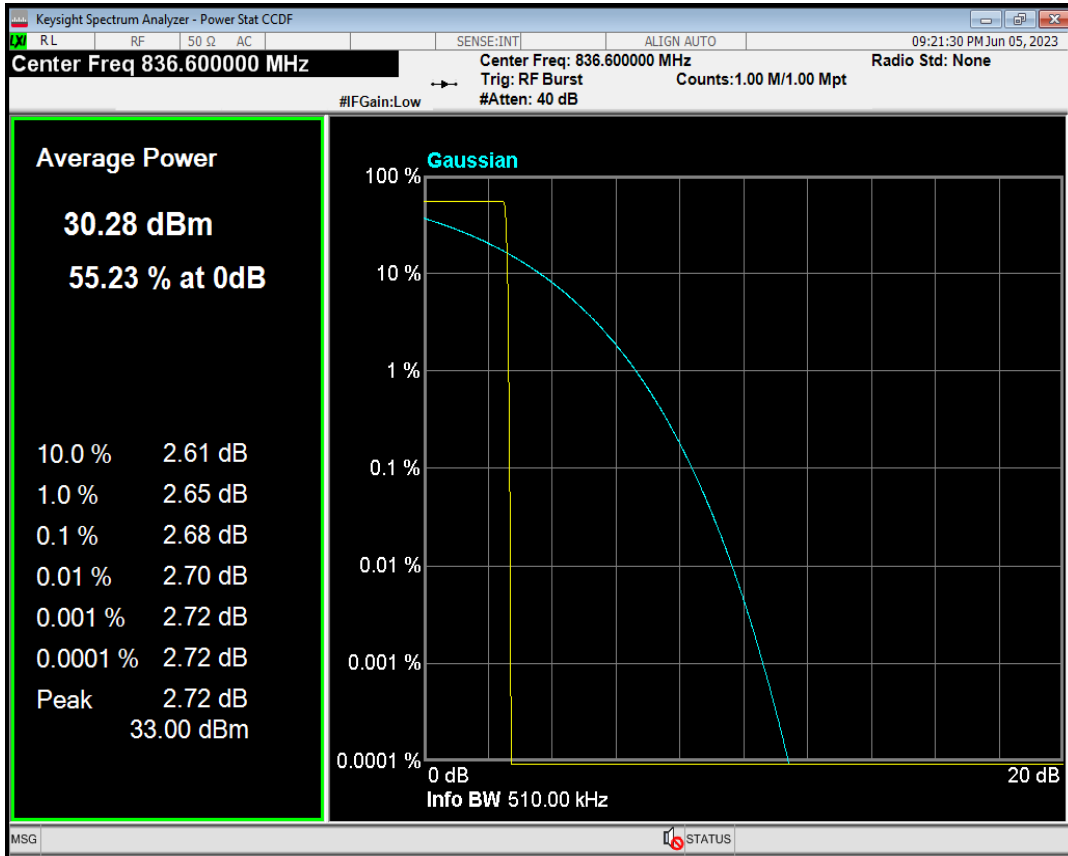
GSM850 Channel=128



GSM850 Channel=251



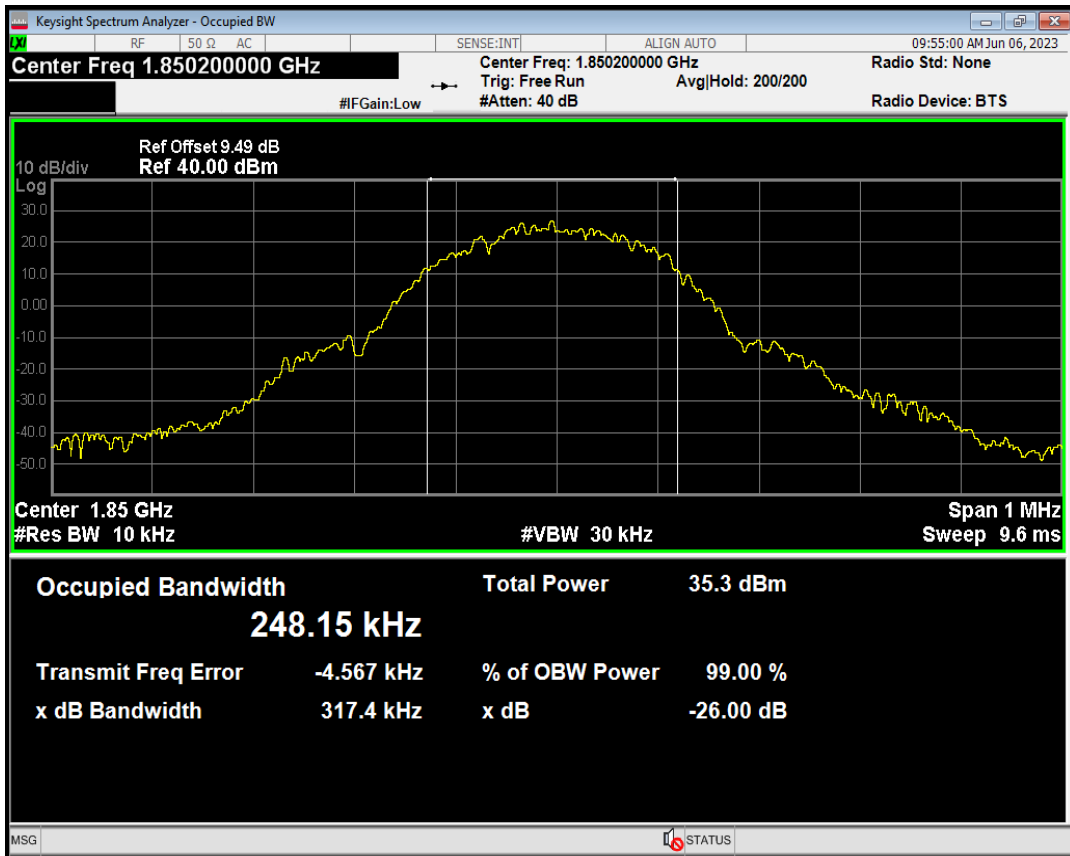
GSM850 Channel=190



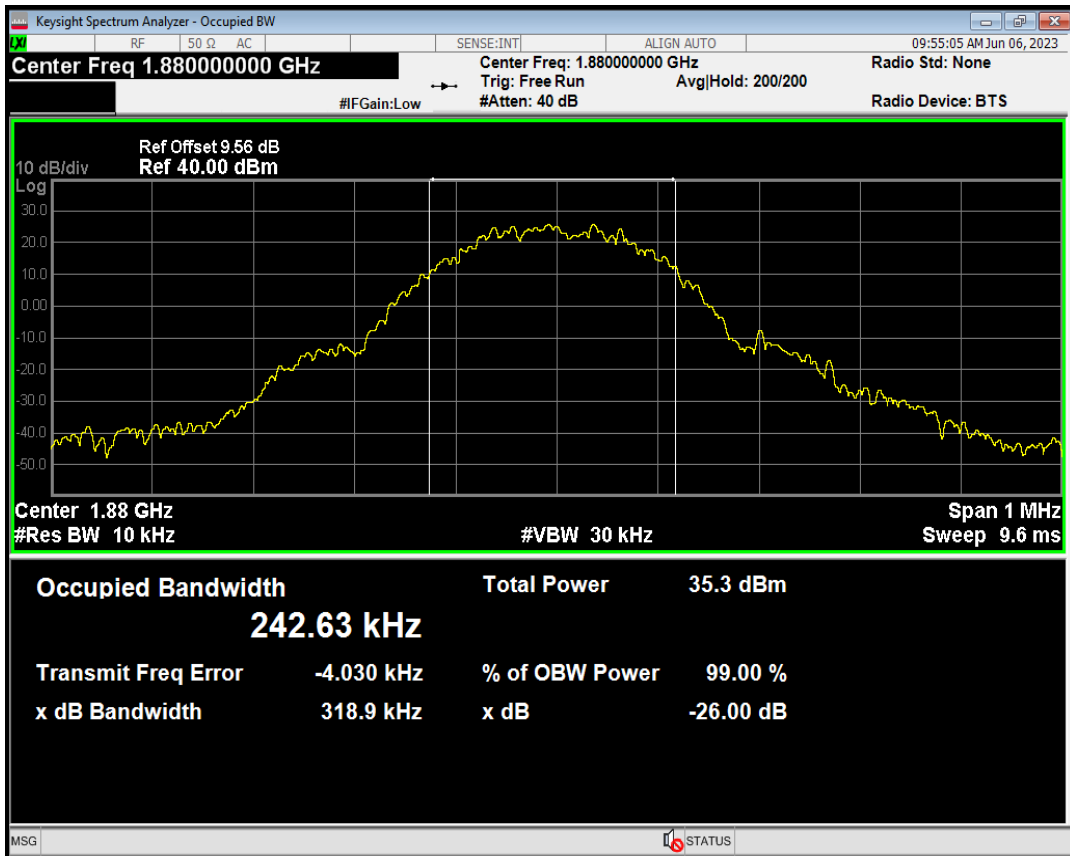
04 Occupied bandwidth

| Band | Channel | Frequency (MHz) | 99% OBW (kHz) | -26dB EBW (kHz) | Verdict |
|---------|---------|-----------------|---------------|-----------------|---------|
| GSM1900 | 512 | 1850.2 | 248.152 | 317.395 | PASS |
| GSM1900 | 661 | 1880 | 242.633 | 318.872 | PASS |
| GSM1900 | 810 | 1909.8 | 251.222 | 315.723 | PASS |
| GSM850 | 128 | 824.2 | 242.192 | 314.470 | PASS |
| GSM850 | 190 | 836.6 | 246.706 | 313.569 | PASS |
| GSM850 | 251 | 848.8 | 244.736 | 315.976 | PASS |

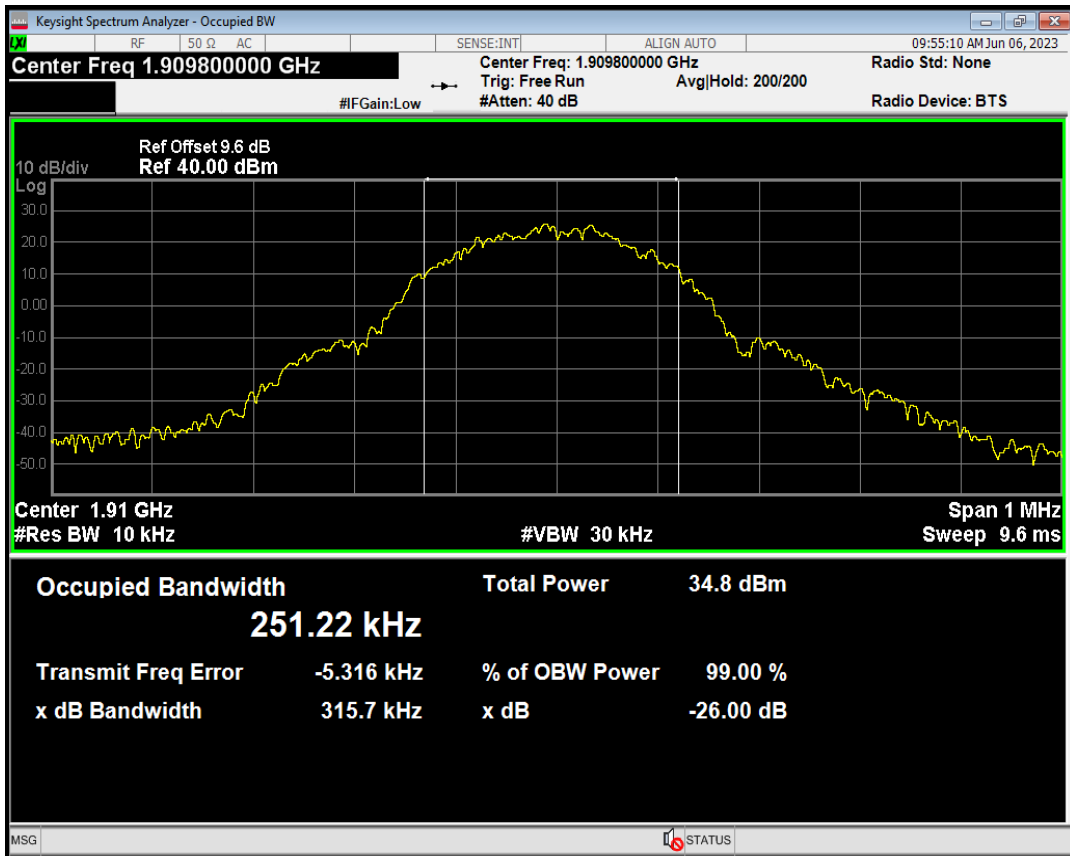
GSM1900 Channel=512



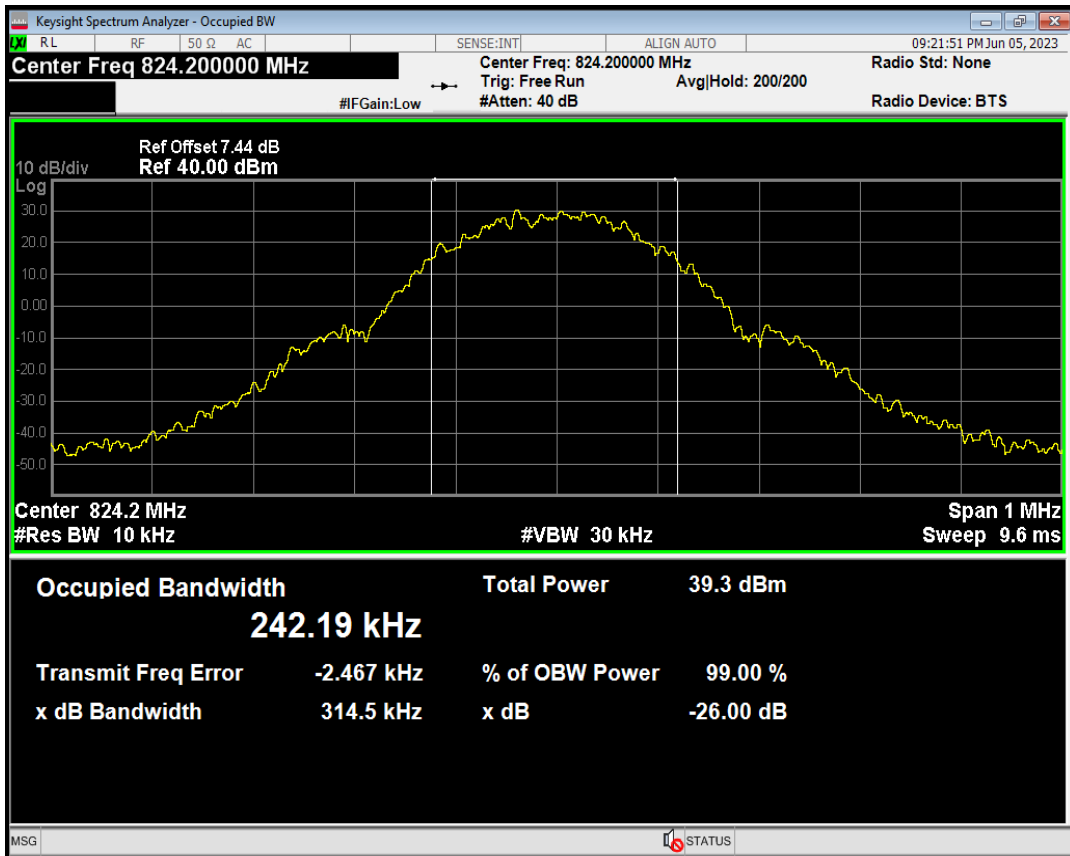
GSM1900 Channel=661



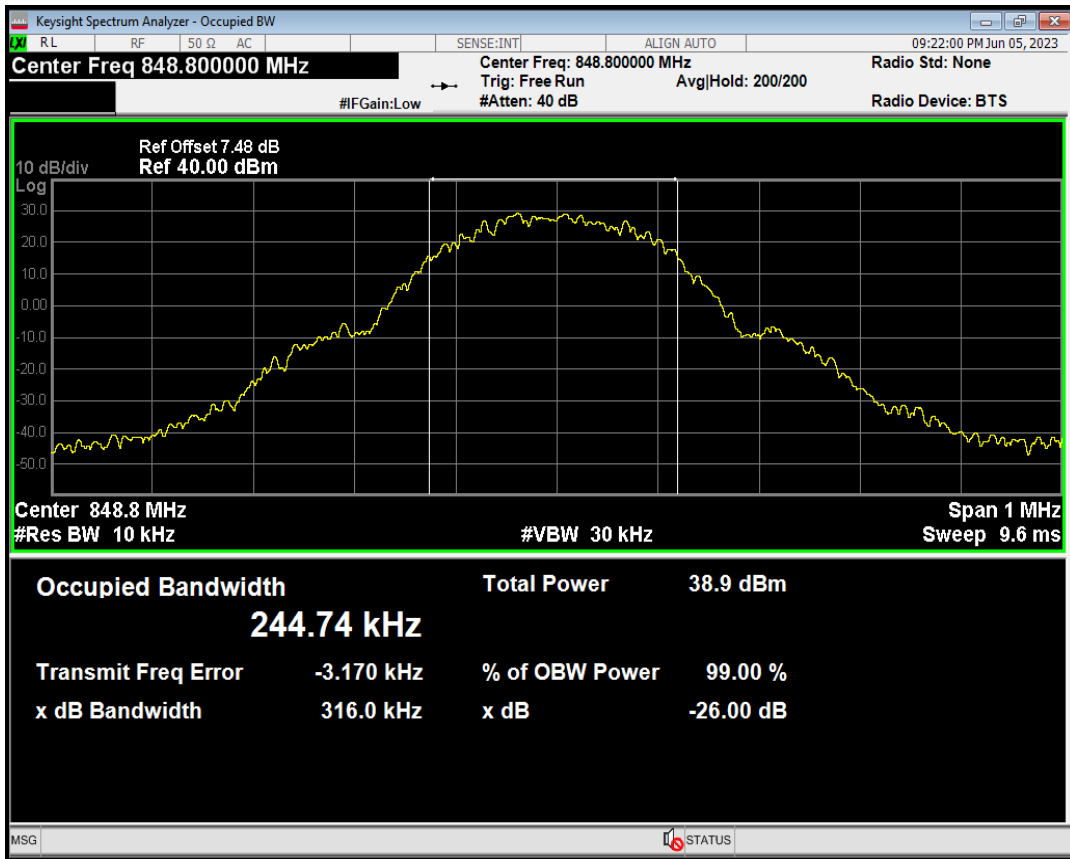
GSM1900 Channel=810



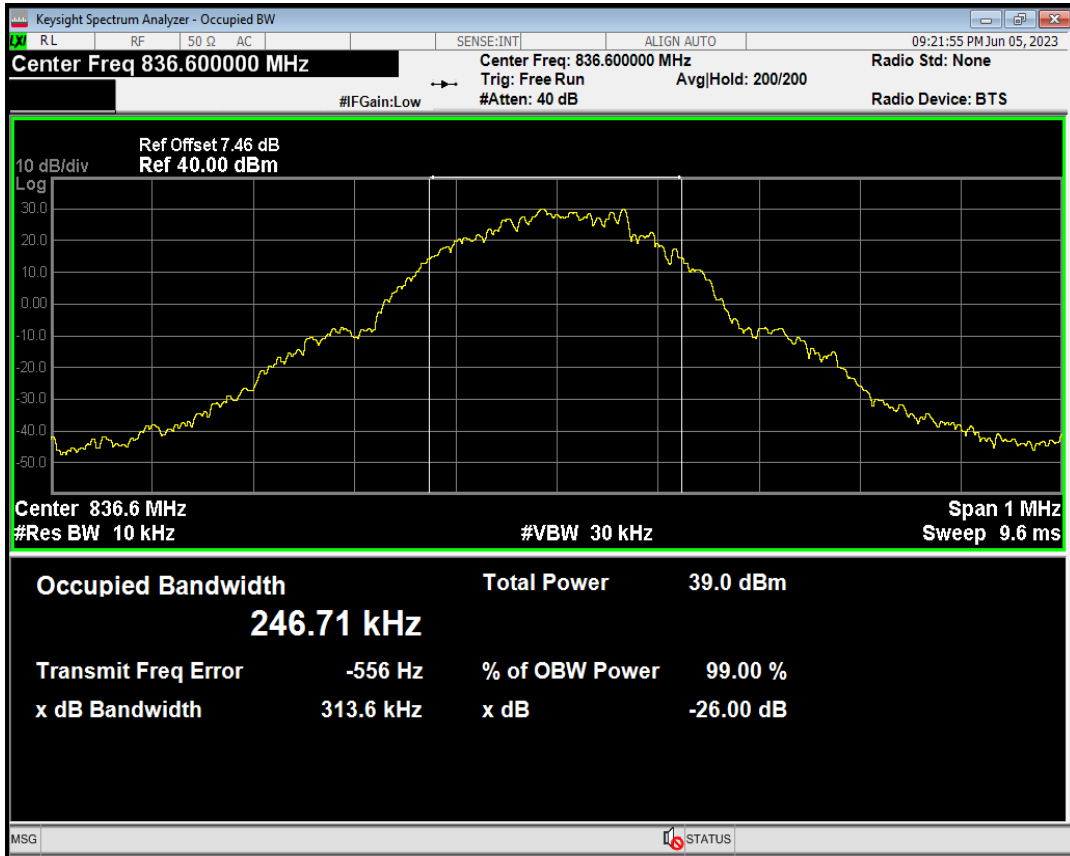
GSM850 Channel=128



GSM850 Channel=251



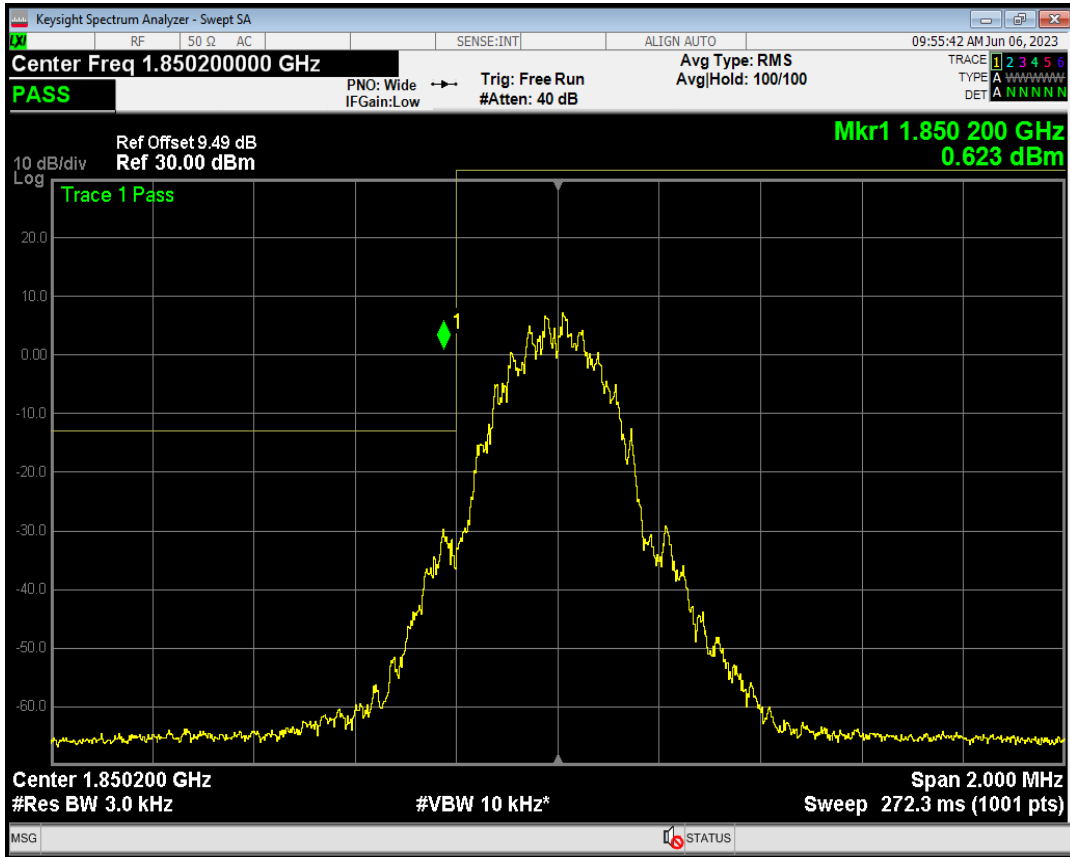
GSM850 Channel=190



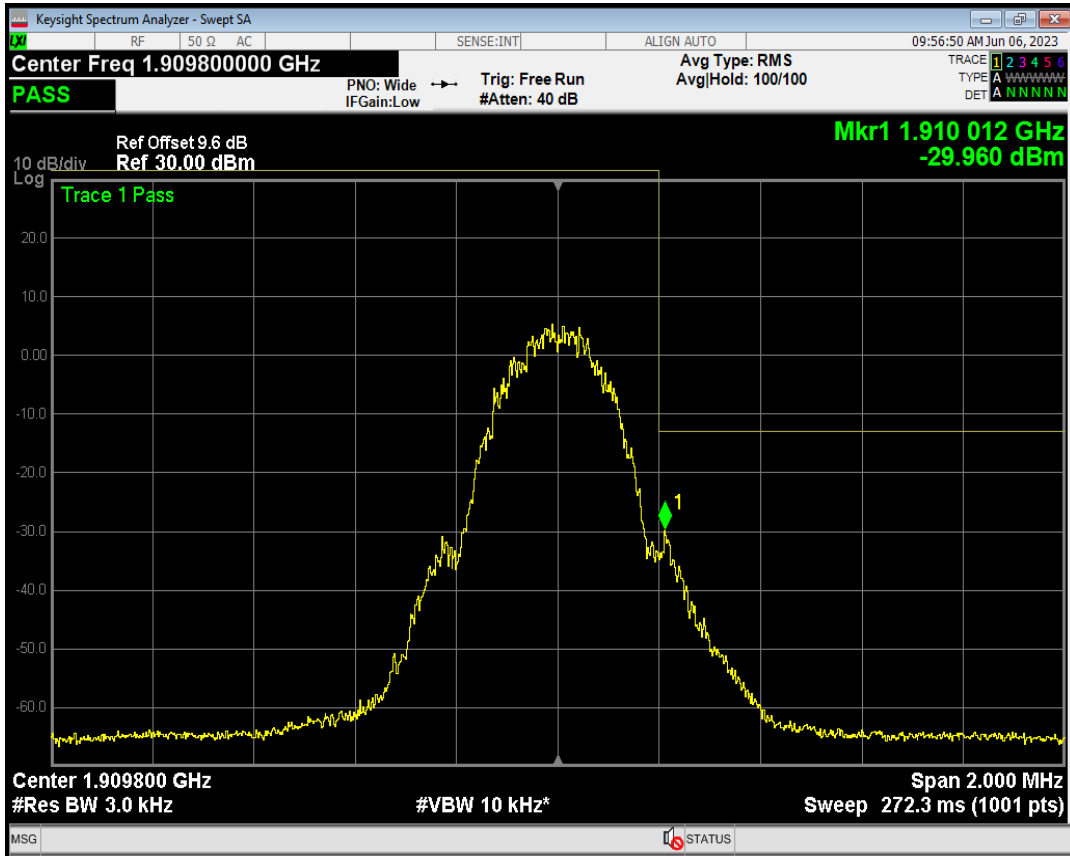
05 Band edge

| Band | Channel | Frequency (MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|---------|---------|-----------------|-----------------|------------------|-------------|---------|
| GSM1900 | 512 | 1850.2 | 1849.97 | -29.66 | -13 | PASS |
| GSM1900 | 661 | 1880 | 0.00 | 0.00 | -13 | FAIL |
| GSM1900 | 810 | 1909.8 | 1910.01 | -29.96 | -13 | PASS |
| GSM850 | 128 | 824.2 | 824.00 | -26.71 | -13 | PASS |
| GSM850 | 190 | 836.6 | 0.00 | 0.00 | -13 | FAIL |
| GSM850 | 251 | 848.8 | 849.02 | -24.92 | -13 | PASS |

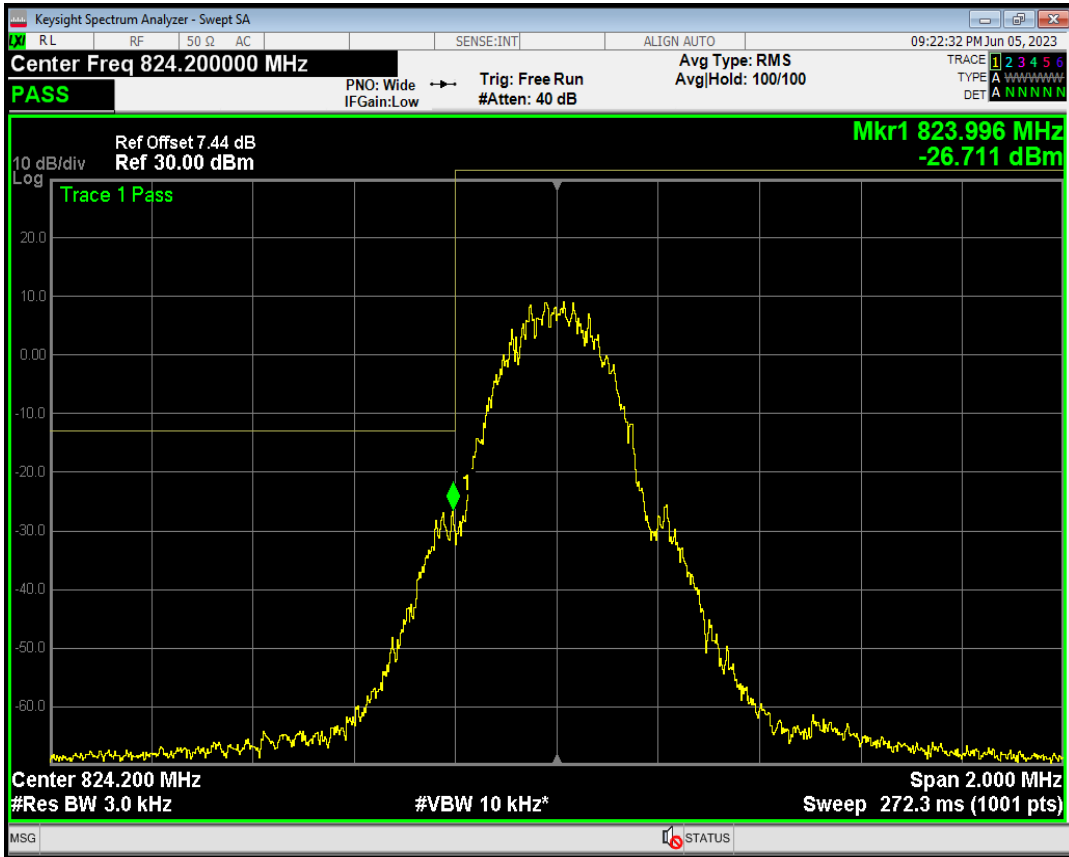
GSM1900 Channel=512



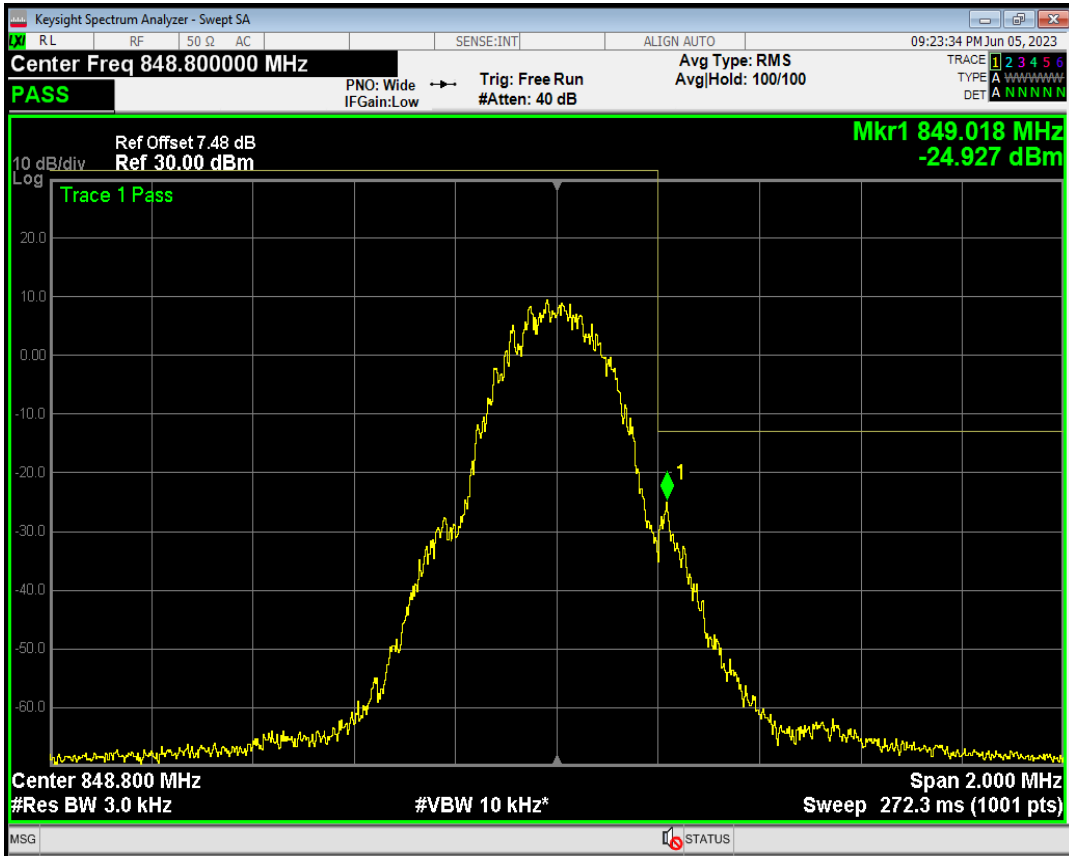
GSM1900 Channel=810



GSM850 Channel=128



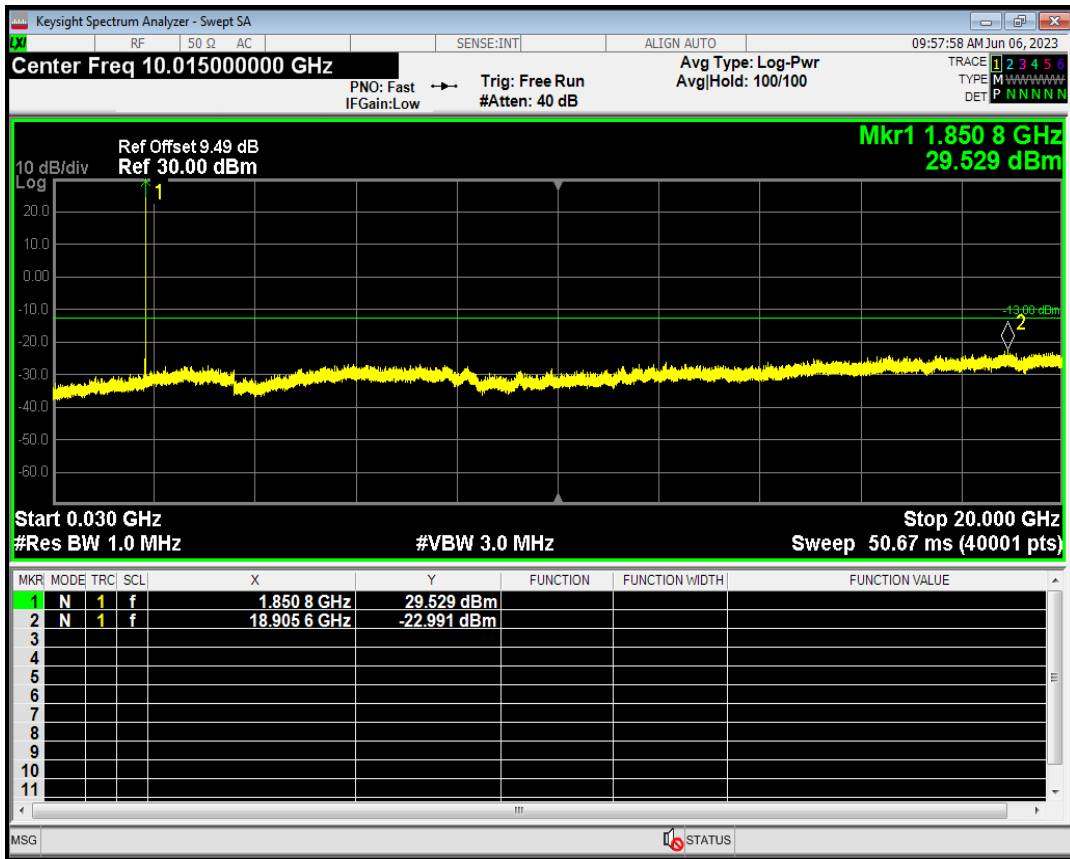
GSM850 Channel=251



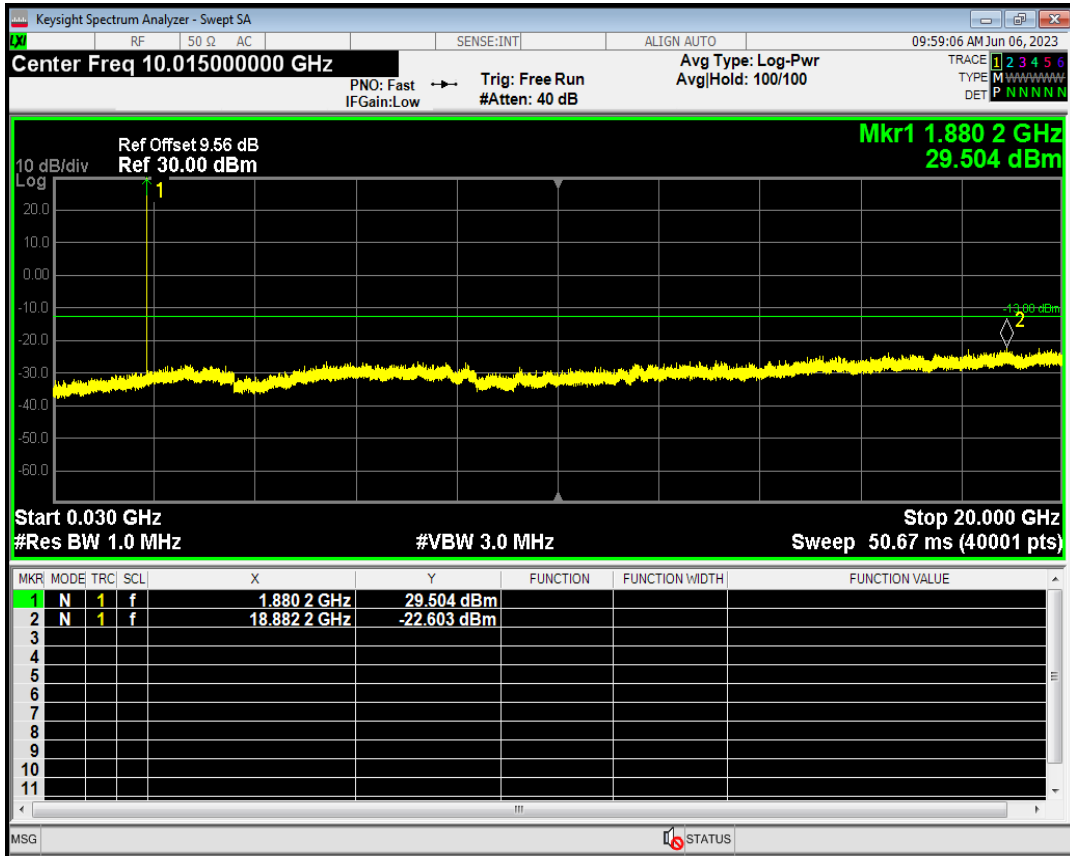
06 Out-of-band emissions

| Band | Channel | Frequency (MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|---------|---------|-----------------|-----------------|------------------|-------------|---------|
| GSM1900 | 512 | 1850.2 | 18905.64 | -22.99 | -13 | PASS |
| GSM1900 | 661 | 1880 | 18882.18 | -22.60 | -13 | PASS |
| GSM1900 | 810 | 1909.8 | 19506.24 | -22.62 | -13 | PASS |
| GSM850 | 128 | 824.2 | 7666.02 | -28.53 | -13 | PASS |
| GSM850 | 190 | 836.6 | 7466.62 | -28.56 | -13 | PASS |
| GSM850 | 251 | 848.8 | 6754.27 | -28.16 | -13 | PASS |

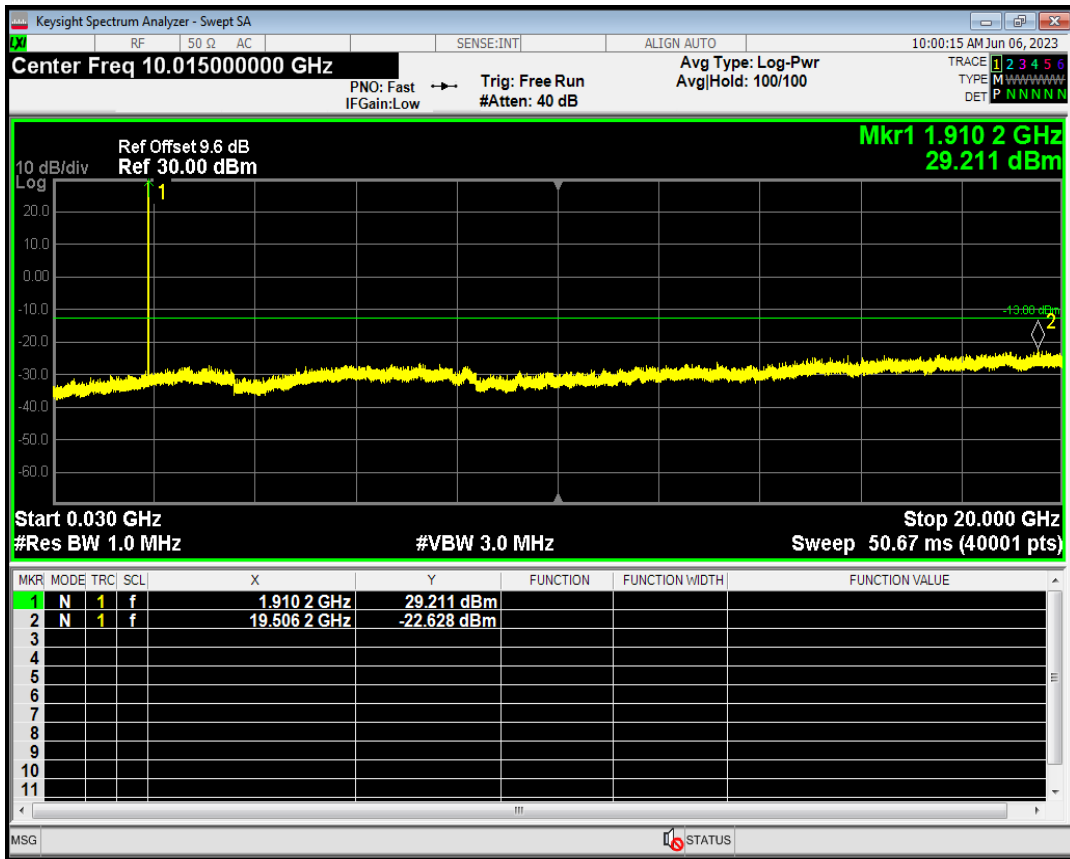
GSM1900 Channel=512



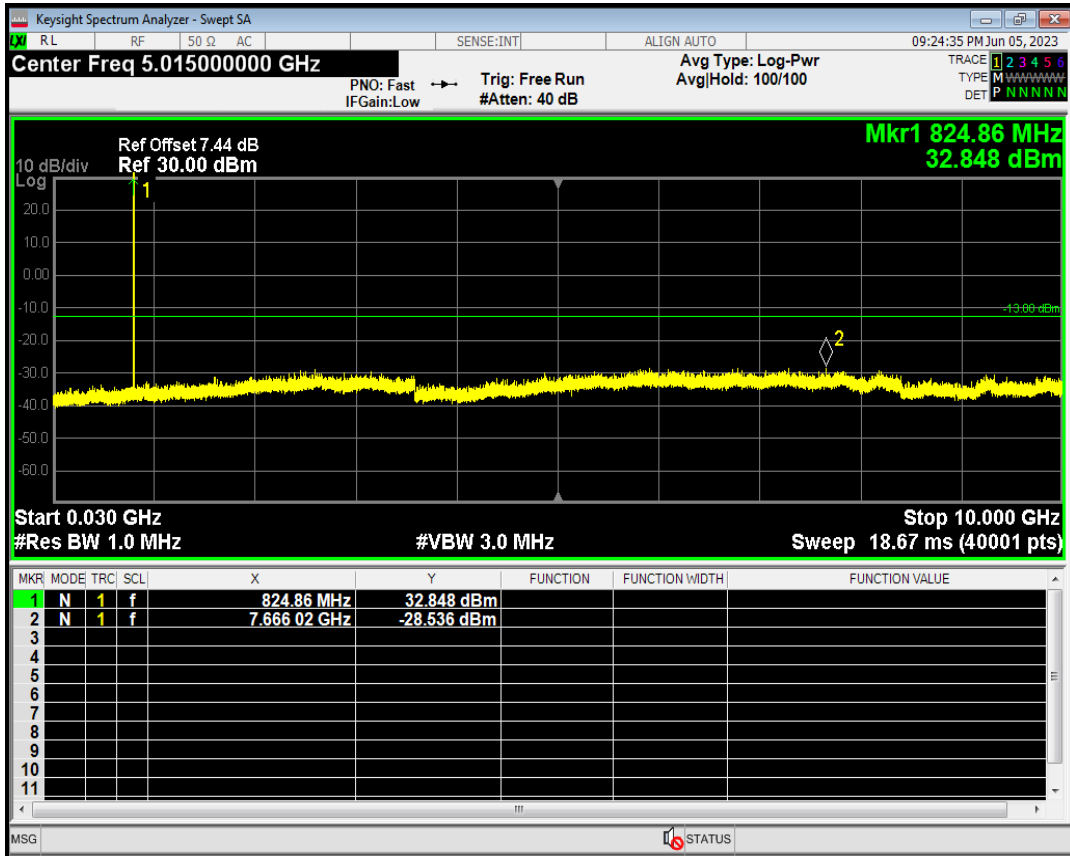
GSM1900 Channel=661



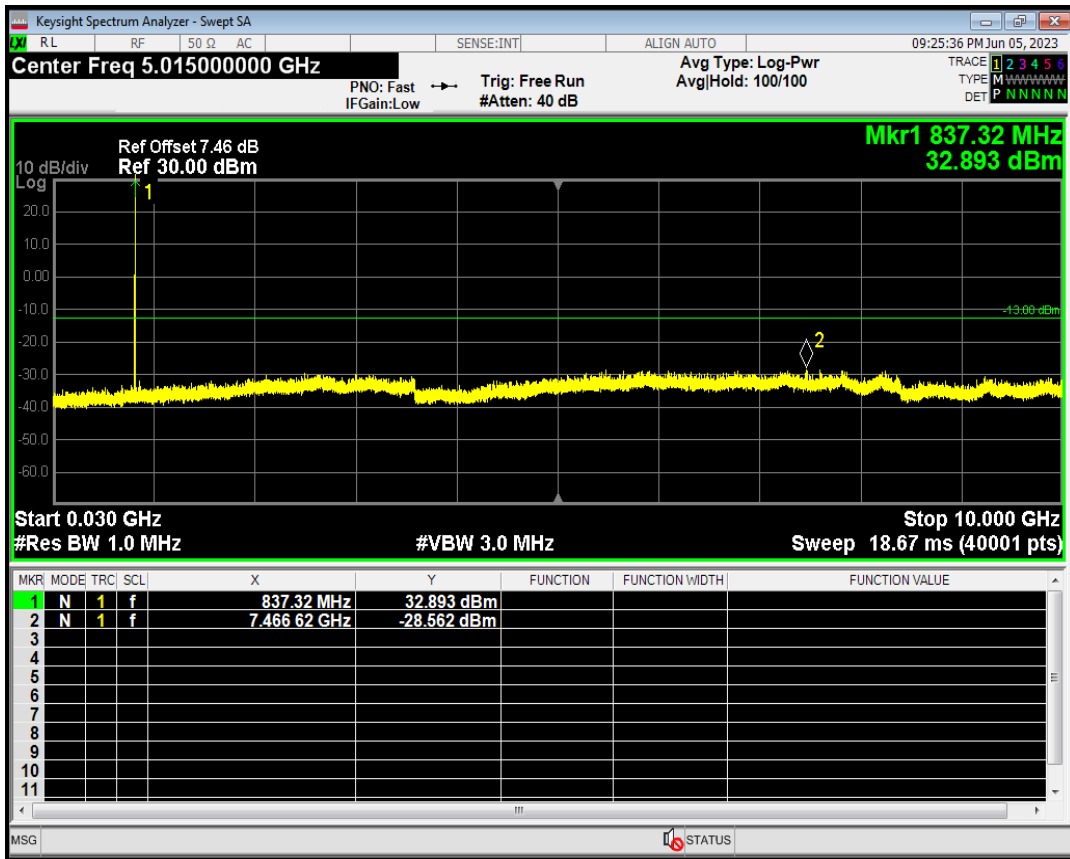
GSM1900 Channel=810



GSM850 Channel=128



GSM850 Channel=190



GSM850 Channel=251

