# APPENDIX D

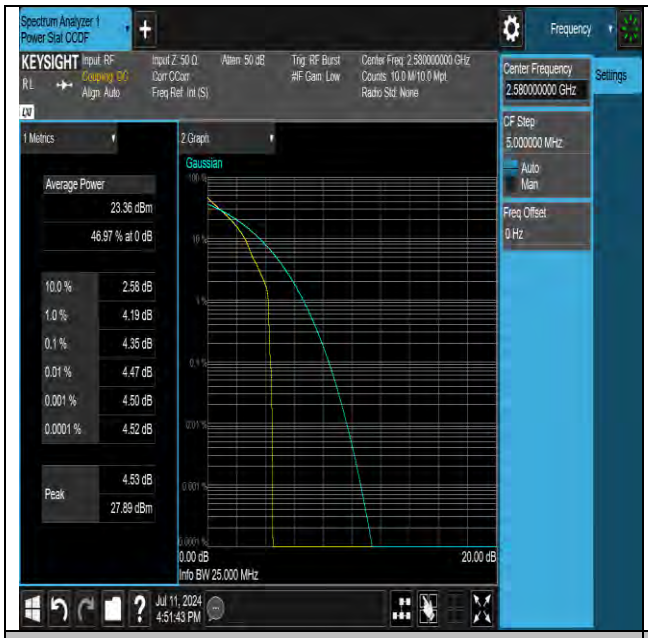
# LTE BAND 38

## PEAK-TO-AVERAGE RATIO(CCDF)

### TEST RESULT

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| Band38 | 20MHz | QPSK | 37850 | 1RB#0 | 8.49 | 13 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | 5.48 | 13 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 1RB#0 | 4.32 | 13 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | 5.38 | 13 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 1RB#0 | 4.19 | 13 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | 5.41 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#0 | 5.30 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | 6.32 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 1RB#0 | 5.20 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | 6.23 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#0 | 5.11 | 13 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | 6.26 | 13 | PASS |

## TEST GRAPHS

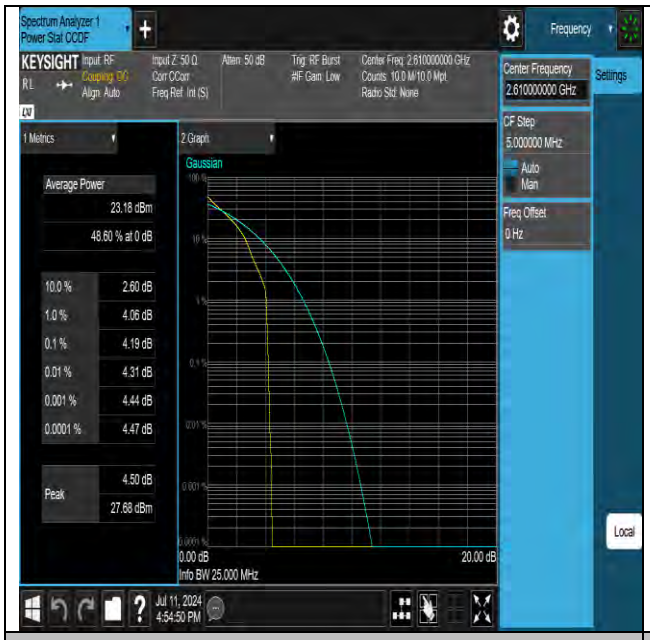



Band38-20MHz-QPSK-37850-1RB#0-PASS

Band38-20MHz-QPSK-37850-100RB#0-PASS

Band38-20MHz-QPSK-38000-1RB#0-PASS

Band38-20MHz-QPSK-38000-100RB#0-PASS




Band38-20MHz-QPSK-38150-1RB#0-PASS

Band38-20MHz-QPSK-38150-100RB#0-PASS

Band38-20MHz-16QAM-37850-1RB#0-PASS

Band38-20MHz-16QAM-37850-100RB#0-PASS

Band38-20MHz-16QAM-38000-1RB#0-PASS

Band38-20MHz-16QAM-38000-100RB#0-PASS

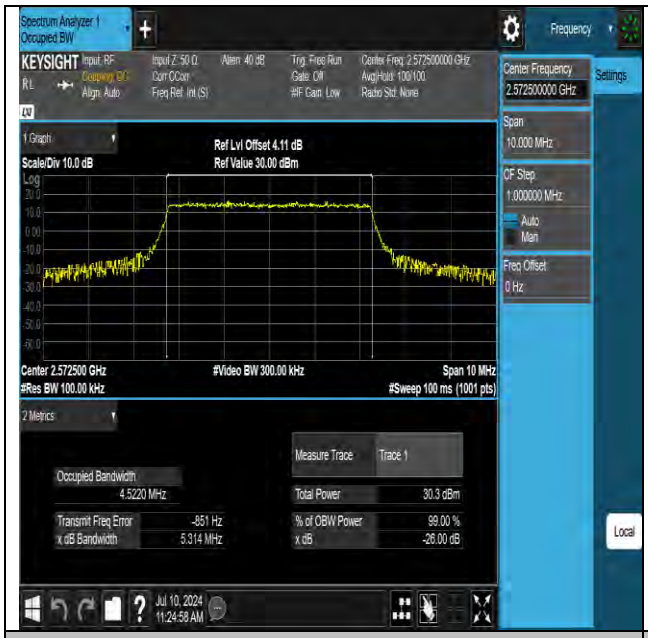
Band38-20MHz-16QAM-38150-1RB#0-PASS

Band38-20MHz-16QAM-38150-100RB#0-PASS

# 26DB BANDWIDTH AND OCCUPIED BANDWIDTH
## TEST RESULT

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| Band38 | 5MHz | QPSK | 37775 | 25RB#0 | 4.5220 | 5.314 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 25RB#0 | 4.5156 | 5.506 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 25RB#0 | 4.5242 | 5.414 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 25RB#0 | 4.5232 | 5.224 | PASS |
| Band38 | 5MHz | 16QAM | 38000 | 25RB#0 | 4.5308 | 5.194 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 25RB#0 | 4.5147 | 5.414 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB#0 | 9.0191 | 10.51 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 50RB#0 | 9.0158 | 10.19 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB#0 | 9.0342 | 10.84 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 50RB#0 | 9.0161 | 10.01 | PASS |
| Band38 | 10MHz | 16QAM | 38000 | 50RB#0 | 9.0070 | 10.66 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 50RB#0 | 8.9853 | 10.08 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 75RB#0 | 13.492 | 15.46 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 75RB#0 | 13.488 | 15.14 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 75RB#0 | 13.486 | 15.06 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 75RB#0 | 13.498 | 15.34 | PASS |
| Band38 | 15MHz | 16QAM | 38000 | 75RB#0 | 13.474 | 15.13 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 75RB#0 | 13.515 | 15.22 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | 17.981 | 20.45 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 100RB#0 | 17.965 | 20.60 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | 17.976 | 20.58 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | 17.967 | 19.96 | PASS |
| Band38 | 20MHz | 16QAM | 38000 | 100RB#0 | 18.000 | 20.74 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | 17.982 | 19.73 | PASS |

## TEST GRAPHS




Band38-5MHz-QPSK-37775-25RB#0-PASS

Band38-5MHz-QPSK-38000-25RB#0-PASS

Band38-5MHz-QPSK-38225-25RB#0-PASS

Band38-5MHz-16QAM-37775-25RB#0-PASS

Band38-5MHz-16QAM-38000-25RB#0-PASS

Band38-5MHz-16QAM-38225-25RB#0-PASS

Band38-10MHz-QPSK-37800-50RB#0-PASS

Band38-10MHz-QPSK-38000-50RB#0-PASS

Band38-10MHz-QPSK-38200-50RB#0-PASS

Band38-10MHz-16QAM-37800-50RB#0-PASS

Band38-10MHz-16QAM-38000-50RB#0-PASS

Band38-10MHz-16QAM-38200-50RB#0-PASS

Band38-15MHz-QPSK-37825-75RB#0-PASS

Band38-15MHz-QPSK-38000-75RB#0-PASS

Band38-15MHz-QPSK-38175-75RB#0-PASS

Band38-15MHz-16QAM-37825-75RB#0-PASS

Band38-15MHz-16QAM-38000-75RB#0-PASS

Band38-15MHz-16QAM-38175-75RB#0-PASS

Band38-20MHz-QPSK-37850-100RB#0-PASS

Band38-20MHz-QPSK-38000-100RB#0-PASS

Band38-20MHz-QPSK-38150-100RB#0-PASS

Band38-20MHz-16QAM-37850-100RB#0-PASS

Band38-20MHz-16QAM-38000-100RB#0-PASS

Band38-20MHz-16QAM-38150-100RB#0-PASS

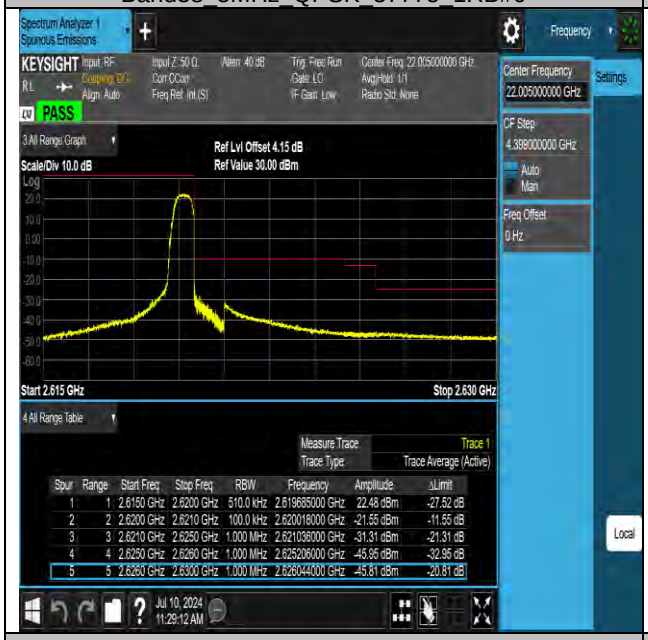
# BAND EDGE
## TEST RESULT

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|---|---|---|---|---|---|---|
| Band38 | 5MHz | QPSK | 37775 | 1RB#0 | -22.57 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 25RB#0 | -38.73 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 1RB#24 | -21.55 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 25RB#0 | -37.38 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 1RB#0 | -24.22 | PASS |
| Band38 | 5MHz | 16QAM | 37775 | 25RB#0 | -39.62 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 1RB#24 | -24.79 | PASS |
| Band38 | 5MHz | 16QAM | 38225 | 25RB#0 | -38.14 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 1RB#0 | -30.30 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB#0 | -40.16 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 1RB#49 | -27.60 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB#0 | -38.40 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 1RB#0 | -29.12 | PASS |
| Band38 | 10MHz | 16QAM | 37800 | 50RB#0 | -41.12 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 1RB#49 | -29.20 | PASS |
| Band38 | 10MHz | 16QAM | 38200 | 50RB#0 | -39.66 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 1RB#0 | -27.12 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 75RB#0 | -36.59 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 1RB#74 | -27.68 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 75RB#0 | -36.16 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 1RB#0 | -28.31 | PASS |
| Band38 | 15MHz | 16QAM | 37825 | 75RB#0 | -40.11 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 1RB#74 | -30.24 | PASS |
| Band38 | 15MHz | 16QAM | 38175 | 75RB#0 | -39.43 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 1RB#0 | -31.72 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 100RB#0 | -41.74 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 1RB#99 | -31.25 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 100RB#0 | -41.49 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 1RB#0 | -31.86 | PASS |
| Band38 | 20MHz | 16QAM | 37850 | 100RB#0 | -42.00 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 1RB#99 | -32.01 | PASS |
| Band38 | 20MHz | 16QAM | 38150 | 100RB#0 | -41.91 | PASS |

# TEST GRAPHS

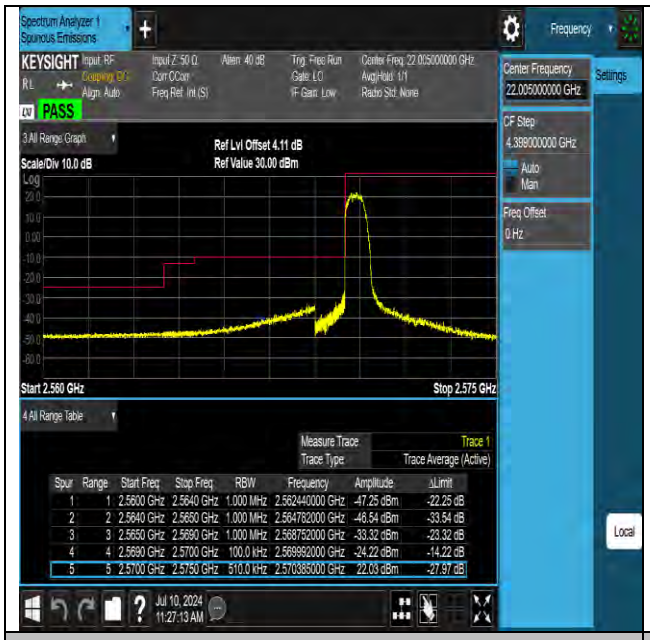
Band38_5MHz_QPSK_37775_1RB#0

Band38_5MHz_QPSK_37775_25RB#0




Band38_5MHz_QPSK_38225_1RB#24

Band38_5MHz_QPSK_38225_25RB#0

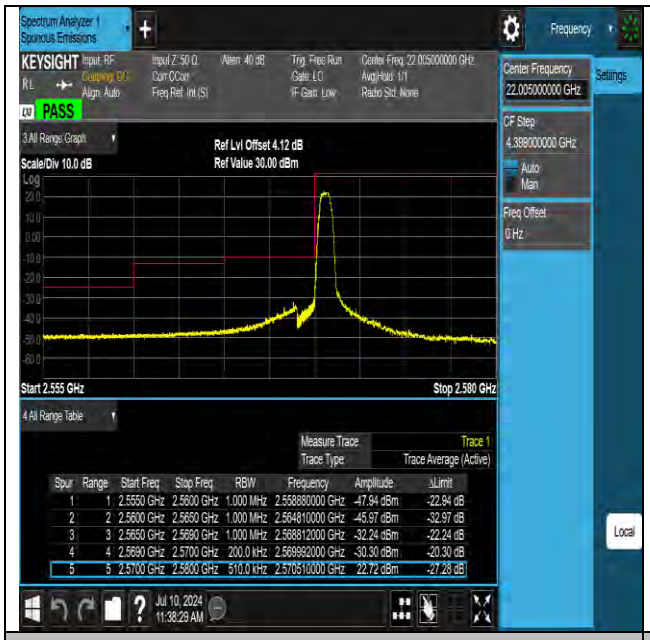



Band38_5MHz_16QAM_37775_1RB#0

Band38_5MHz_16QAM_37775_25RB#0

Band38_5MHz_16QAM_38225_1RB#24

Band38_5MHz_16QAM_38225_25RB#0

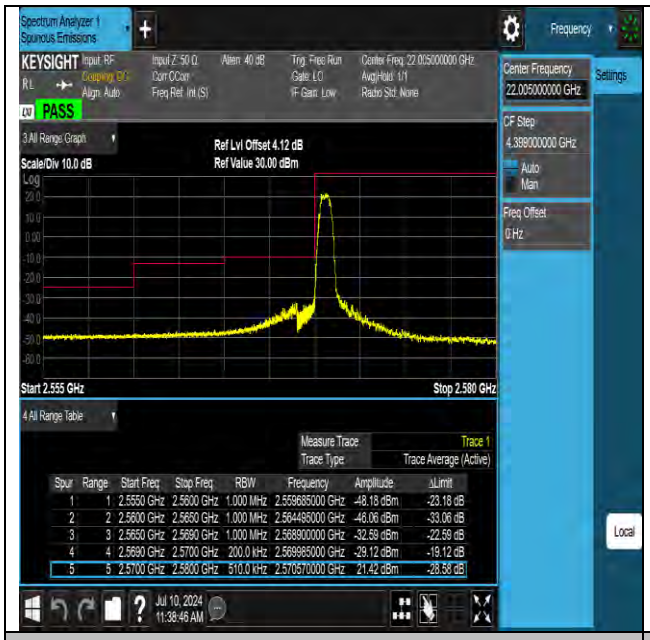



Band38_10MHz_QPSK_37800_1RB#0

Band38_10MHz_QPSK_37800_50RB#0

Band38_10MHz_QPSK_38200_1RB#49

Band38_10MHz_QPSK_38200_50RB#0

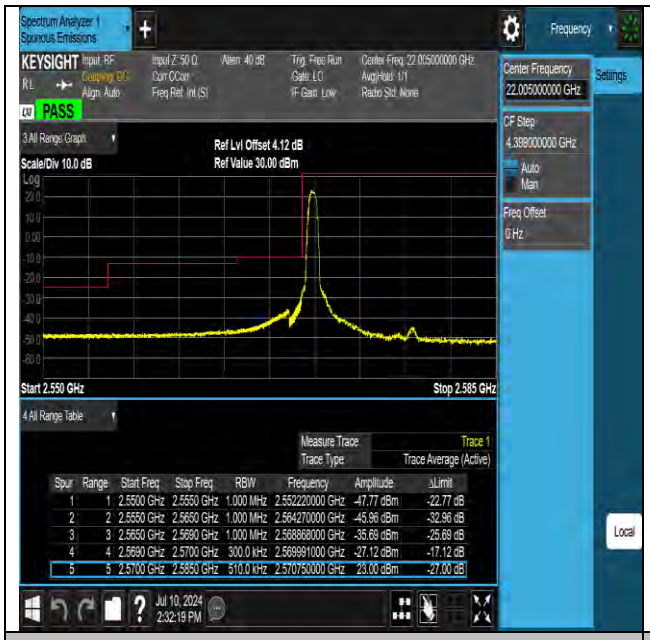



Band38_10MHz_16QAM_37800_1RB#0

Band38_10MHz_16QAM_37800_50RB#0

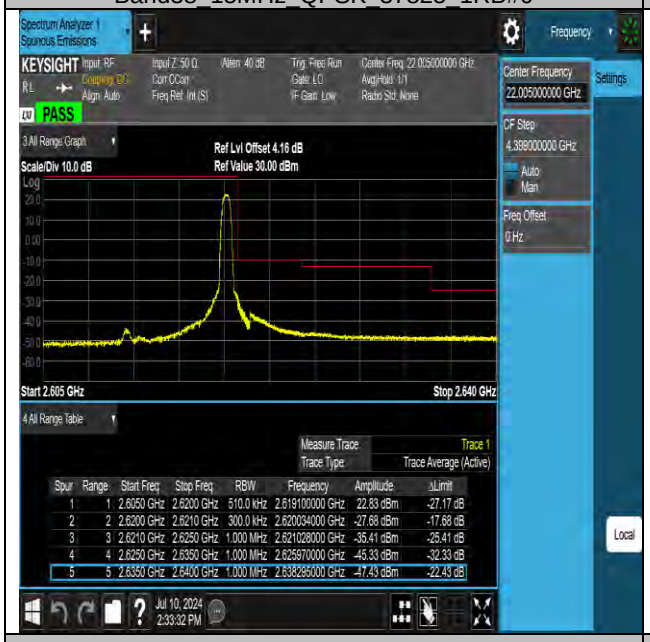
Band38_10MHz_16QAM_38200_1RB#49

Band38_10MHz_16QAM_38200_50RB#0

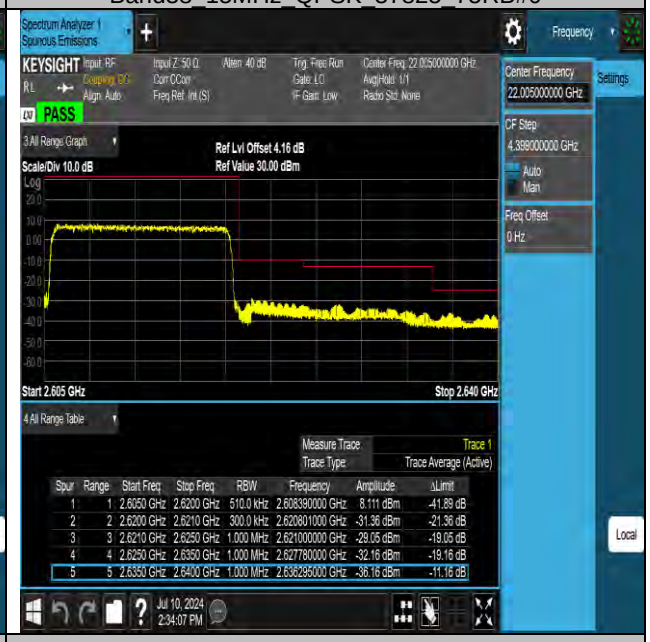



Band38_15MHz_QPSK_37825_1RB#0

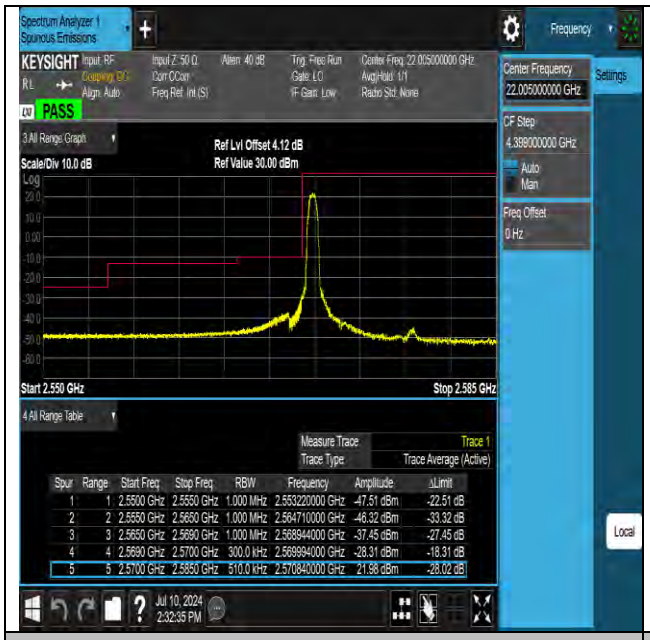
Band38_15MHz_QPSK_37825_75RB#0




Band38_15MHz_QPSK_38175_1RB#74

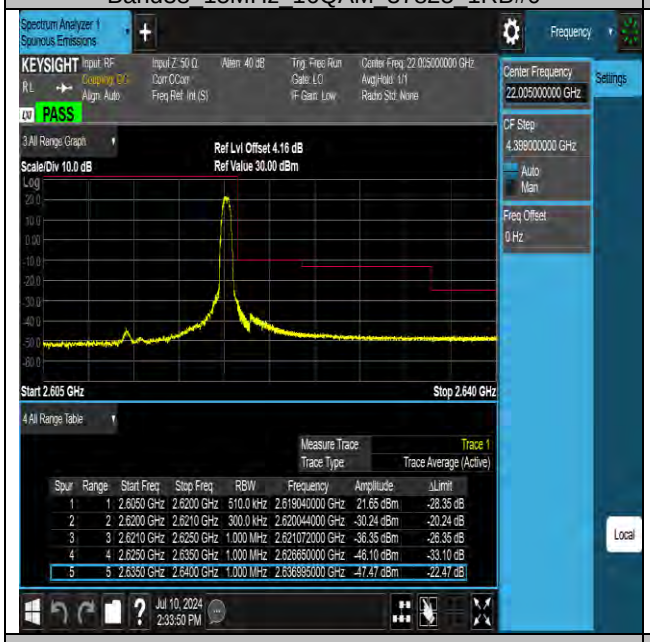



Band38_15MHz_QPSK_38175_75RB#0

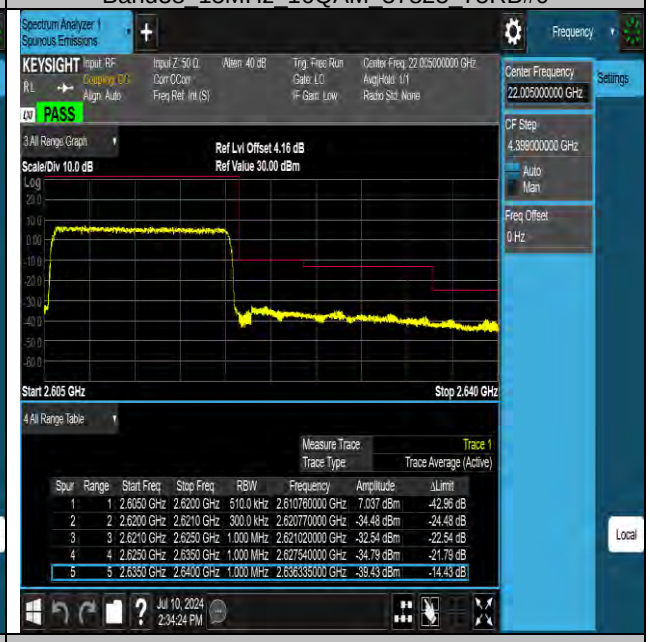



Band38_15MHz_16QAM_37825_1RB#0

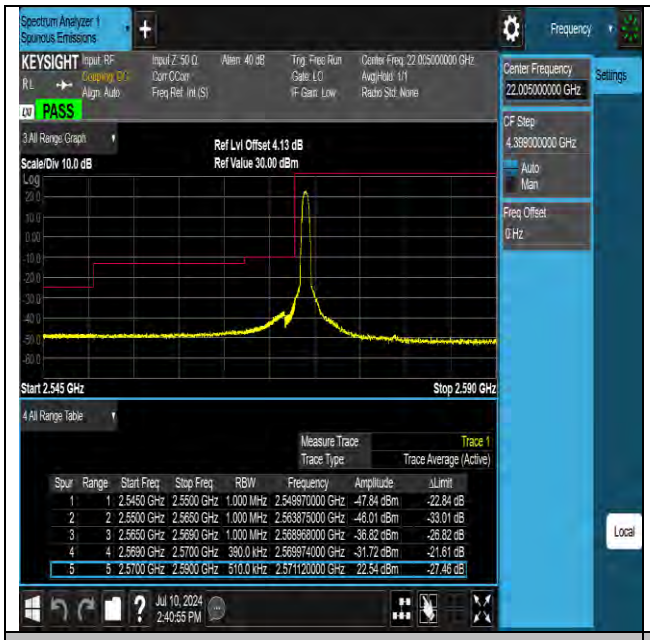
Band38_15MHz_16QAM_37825_75RB#0




Band38_15MHz_16QAM_38175_1RB#74

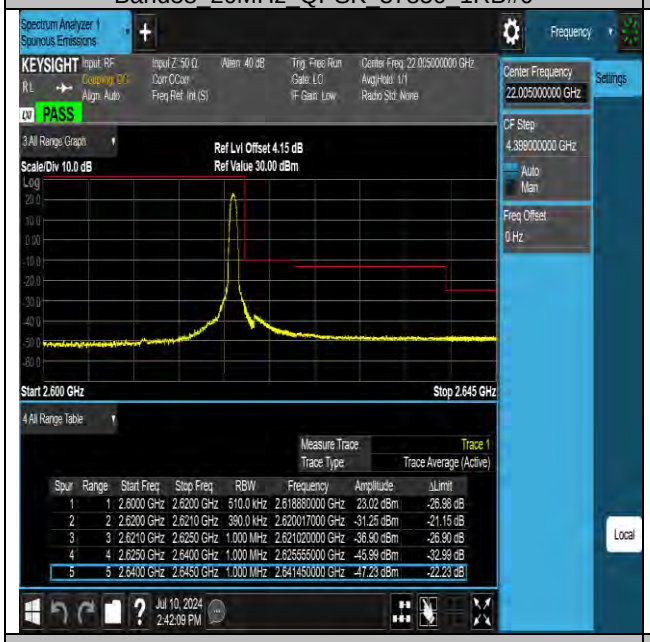



Band38_15MHz_16QAM_38175_75RB#0



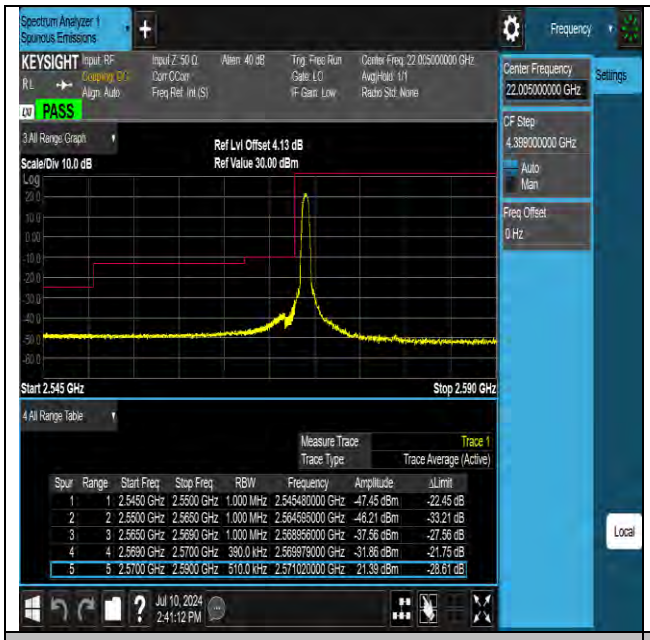

Band38_20MHz_QPSK_37850_1RB#0

Band38_20MHz_QPSK_37850_100RB#0



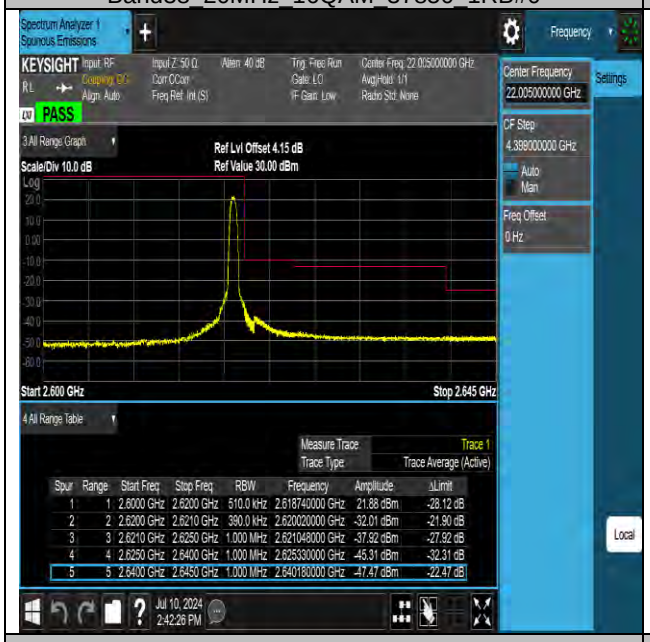

Band38_20MHz_QPSK_38150_1RB#99

Band38_20MHz_QPSK_38150_100RB#0




Band38_20MHz_16QAM_37850_1RB#0

Band38_20MHz_16QAM_37850_100RB#0




Band38_20MHz_16QAM_38150_1RB#99

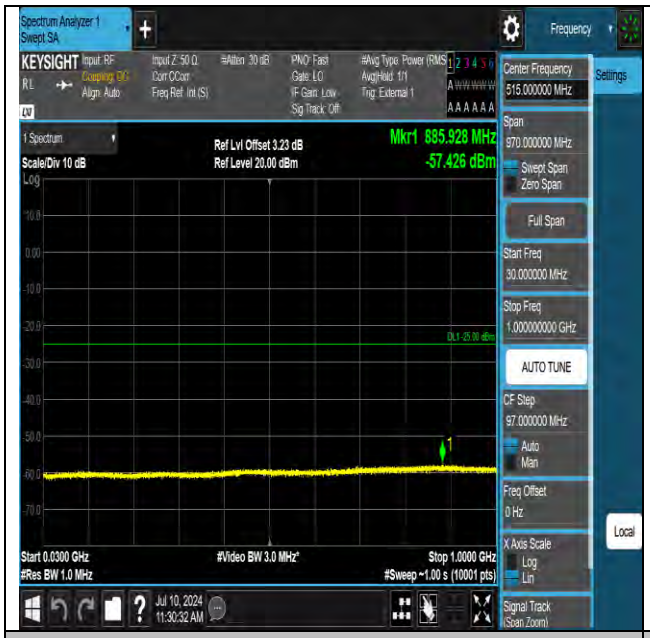
Band38_20MHz_16QAM_38150_100RB#0

# CONDUCTED SPURIOUS EMISSION
## TEST RESULT

| Band | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|---|---|---|---|---|---|---|---|
| Band38 | 5MHz | QPSK | 37775 | 1RB#0 | 30~1000 | -57.43 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 1RB#0 | 1000~10000 | -47.91 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 1RB#0 | 10000~20000 | -55.61 | PASS |
| Band38 | 5MHz | QPSK | 37775 | 1RB#0 | 20000~27000 | -53.60 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 1RB#0 | 30~1000 | -46.96 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 1RB#0 | 1000~10000 | -48.00 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 1RB#0 | 10000~20000 | -55.77 | PASS |
| Band38 | 5MHz | QPSK | 38000 | 1RB#0 | 20000~27000 | -54.10 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 1RB#0 | 30~1000 | -48.20 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 1RB#0 | 1000~10000 | -48.10 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 1RB#0 | 10000~20000 | -55.84 | PASS |
| Band38 | 5MHz | QPSK | 38225 | 1RB#0 | 20000~27000 | -53.73 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 1RB#0 | 30~1000 | -57.61 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 1RB#0 | 1000~10000 | -47.49 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 1RB#0 | 10000~20000 | -55.38 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 1RB#0 | 20000~27000 | -53.37 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 1RB#0 | 30~1000 | -57.80 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 1RB#0 | 1000~10000 | -47.58 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 1RB#0 | 10000~20000 | -55.16 | PASS |
| Band38 | 10MHz | QPSK | 38000 | 1RB#0 | 20000~27000 | -53.11 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 1RB#0 | 30~1000 | -48.35 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 1RB#0 | 1000~10000 | -47.52 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 1RB#0 | 10000~20000 | -54.98 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 1RB#0 | 20000~27000 | -53.38 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 1RB#0 | 30~1000 | -57.49 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 1RB#0 | 1000~10000 | -47.11 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 1RB#0 | 10000~20000 | -55.01 | PASS |
| Band38 | 15MHz | QPSK | 37825 | 1RB#0 | 20000~27000 | -52.84 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 1RB#0 | 30~1000 | -57.37 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 1RB#0 | 1000~10000 | -47.12 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 1RB#0 | 10000~20000 | -54.74 | PASS |
| Band38 | 15MHz | QPSK | 38000 | 1RB#0 | 20000~27000 | -52.70 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 1RB#0 | 30~1000 | -48.42 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 1RB#0 | 1000~10000 | -47.19 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 1RB#0 | 10000~20000 | -54.77 | PASS |
| Band38 | 15MHz | QPSK | 38175 | 1RB#0 | 20000~27000 | -52.49 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 1RB#0 | 30~1000 | -57.26 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 1RB#0 | 1000~10000 | -47.13 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 1RB#0 | 10000~20000 | -54.76 | PASS |
| Band38 | 20MHz | QPSK | 37850 | 1RB#0 | 20000~27000 | -52.87 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 1RB#0 | 30~1000 | -57.58 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 1RB#0 | 1000~10000 | -47.35 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 1RB#0 | 10000~20000 | -54.64 | PASS |
| Band38 | 20MHz | QPSK | 38000 | 1RB#0 | 20000~27000 | -52.67 | PASS |

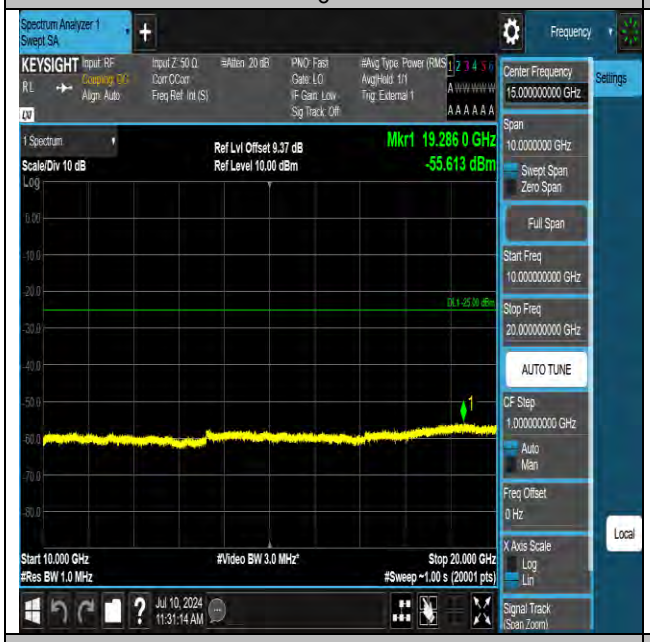
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Band38 | 20MHz | QPSK | 38150 | 1RB#0 | 30~1000 | -48.39 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 1RB#0 | 1000~10000 | -47.25 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 1RB#0 | 10000~20000 | -54.84 | PASS |
| Band38 | 20MHz | QPSK | 38150 | 1RB#0 | 20000~27000 | -52.76 | PASS |

## TEST GRAPHS



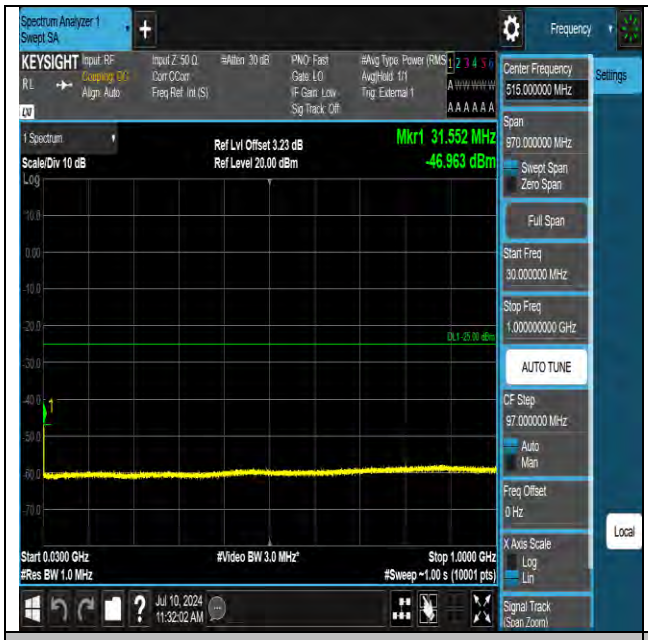

Band38_5MHz_QPSK_37775_1RB#0_30~1000_30~1000

Band38_5MHz_QPSK_37775_1RB#0_1000~10000_1000~10000



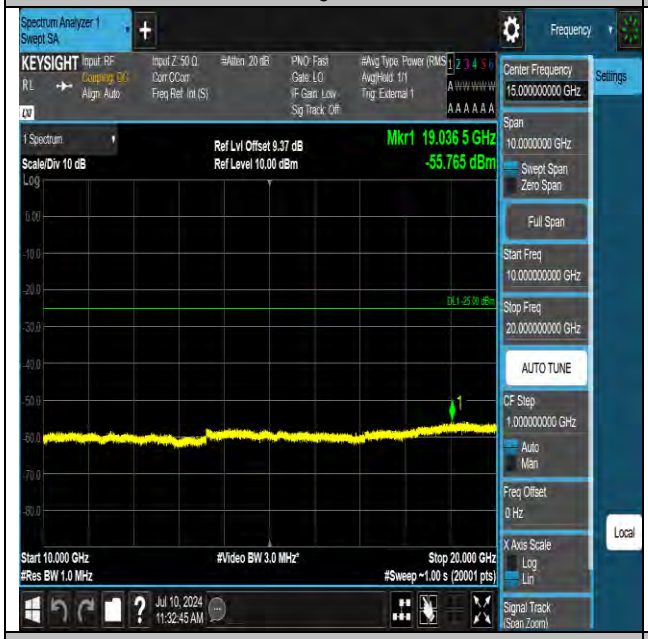

Band38_5MHz_QPSK_37775_1RB#0_10000~20000_10000~20000

Band38_5MHz_QPSK_37775_1RB#0_20000~27000_20000~27000

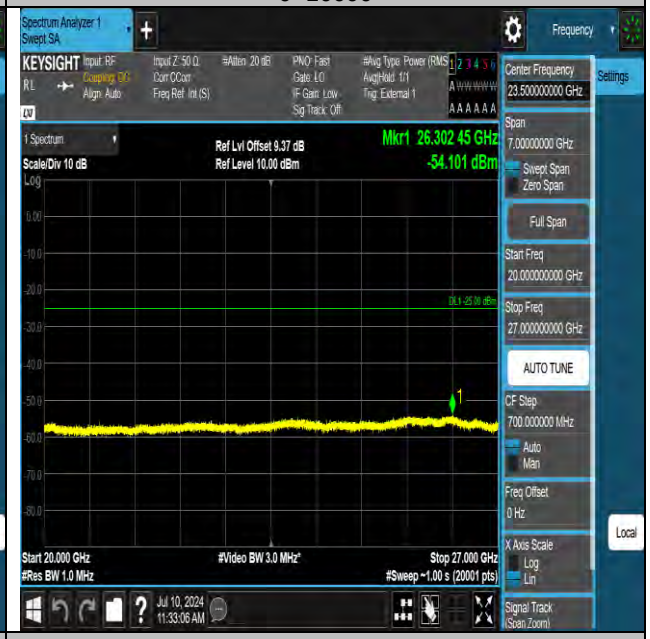



Band38_5MHz_QPSK_38000_1RB#0_30~1000_30~1000

Band38_5MHz_QPSK_38000_1RB#0_1000~10000_1000~10000



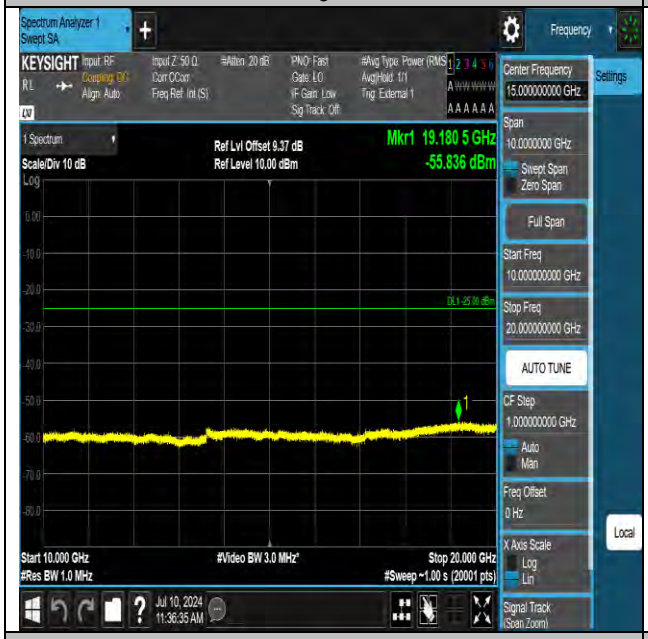

Band38_5MHz_QPSK_38000_1RB#0_10000~20000_10000~20000



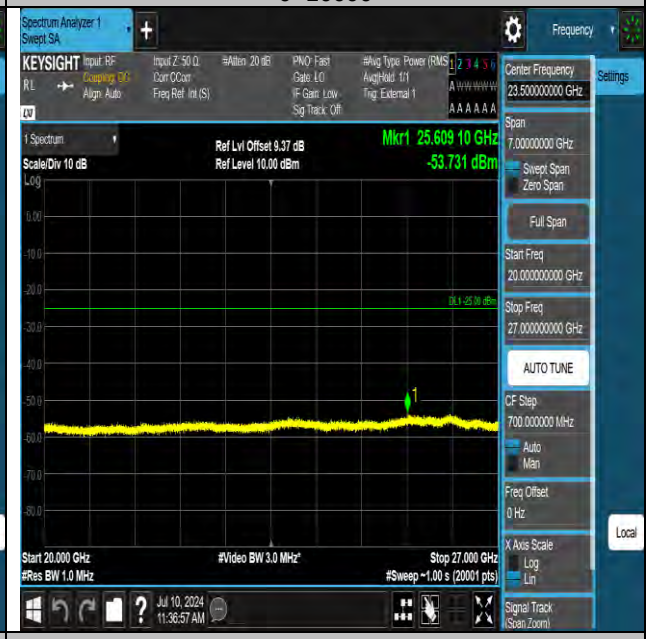

Band38_5MHz_QPSK_38000_1RB#0_20000~27000_20000~27000

Band38_5MHz_QPSK_38225_1RB#0_30~1000_30~1000

Band38_5MHz_QPSK_38225_1RB#0_1000~10000_1000~10000



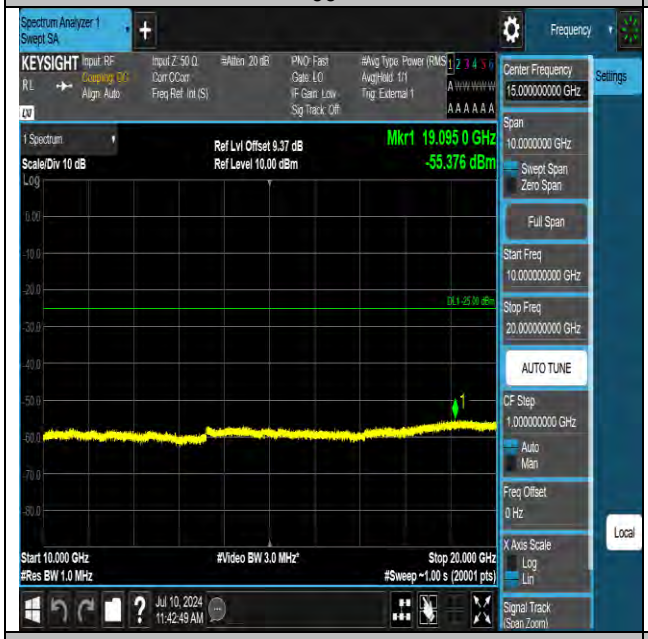

Band38_5MHz_QPSK_38225_1RB#0_10000~20000_10000~20000



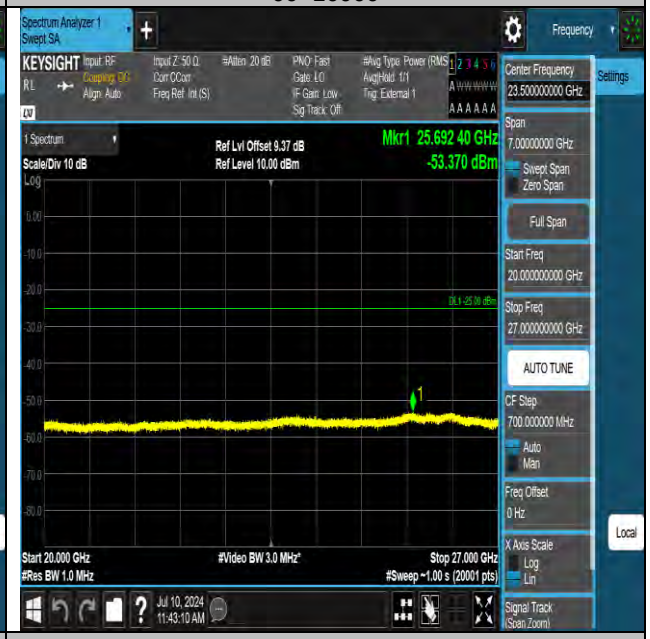

Band38_5MHz_QPSK_38225_1RB#0_20000~27000_20000~27000

Band38_10MHz_QPSK_37800_1RB#0_30~1000_30~1000

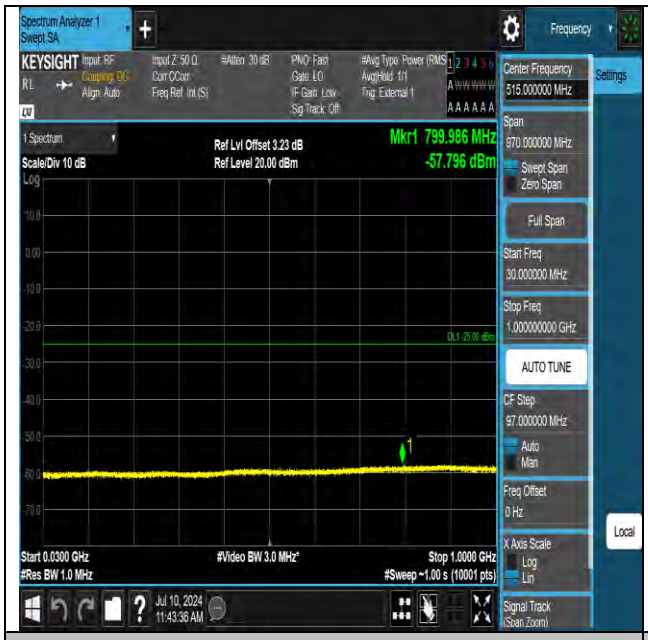
Band38_10MHz_QPSK_37800_1RB#0_1000~10000_1000~10000




Band38_10MHz_QPSK_37800_1RB#0_10000~20000_10000~20000

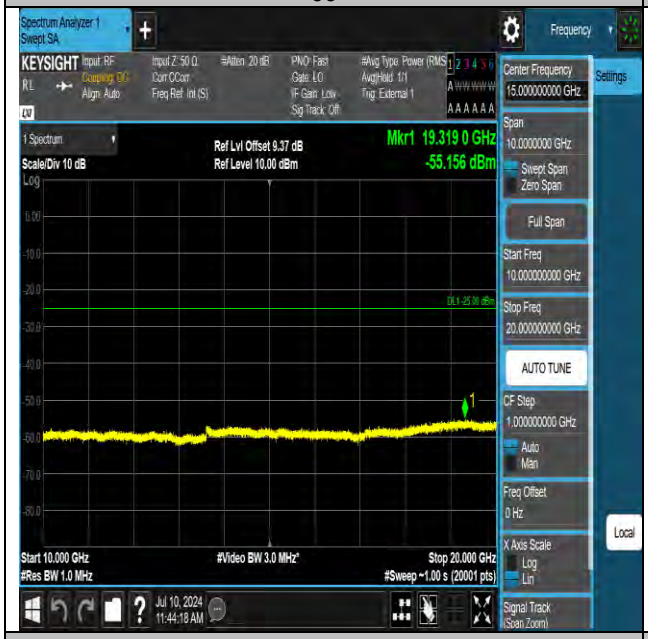



Band38_10MHz_QPSK_37800_1RB#0_20000~27000_20000~27000

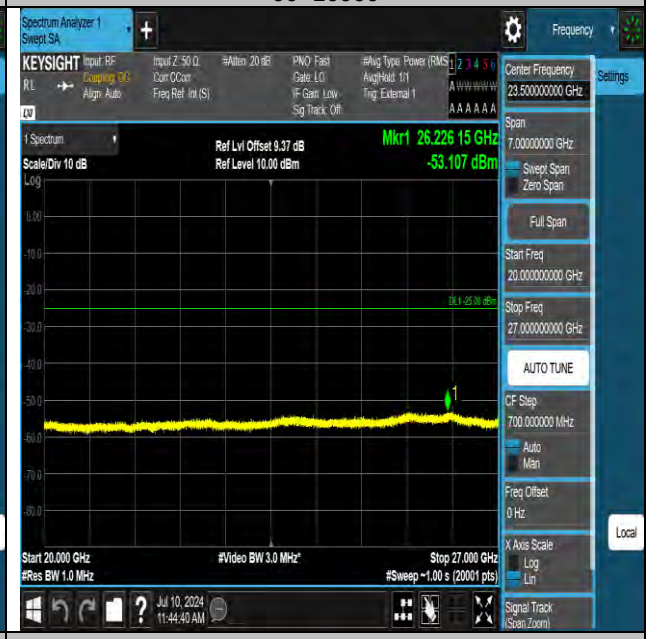



Band38_10MHz_QPSK_38000_1RB#0_30~1000_30~1000

Band38_10MHz_QPSK_38000_1RB#0_1000~10000_1000~10000



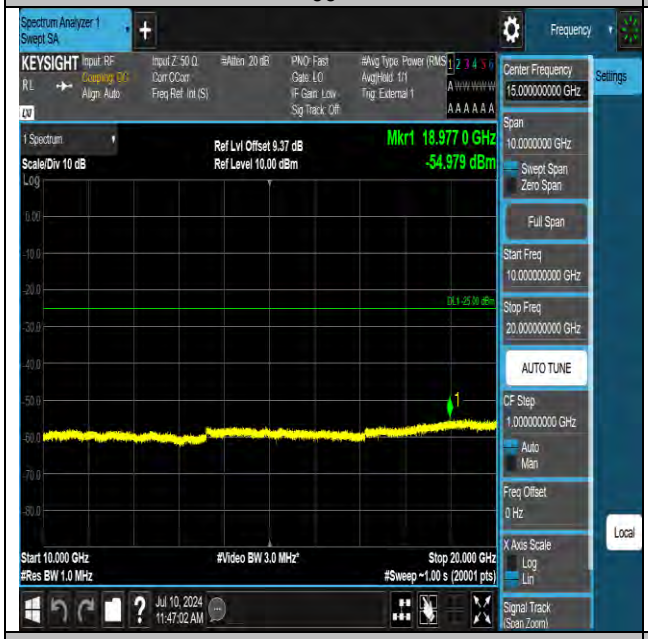

Band38_10MHz_QPSK_38000_1RB#0_10000~20000_10000~20000



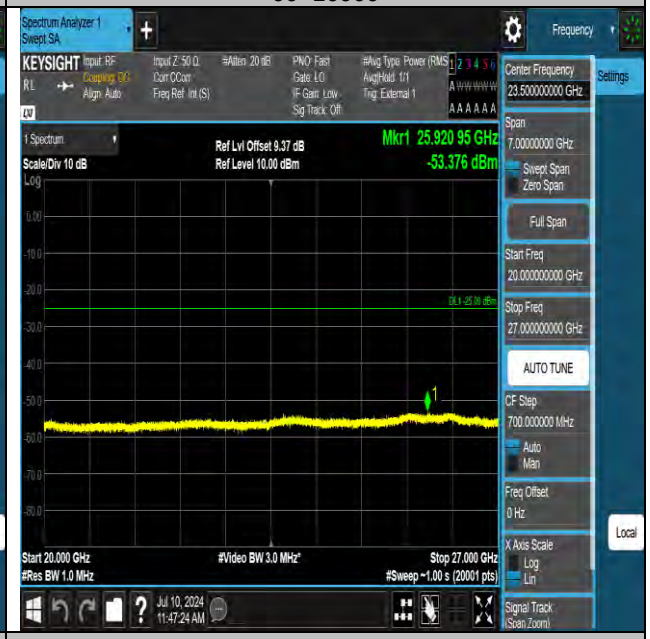

Band38_10MHz_QPSK_38000_1RB#0_20000~27000_20000~27000

Band38_10MHz_QPSK_38200_1RB#0_30~1000_30~1000

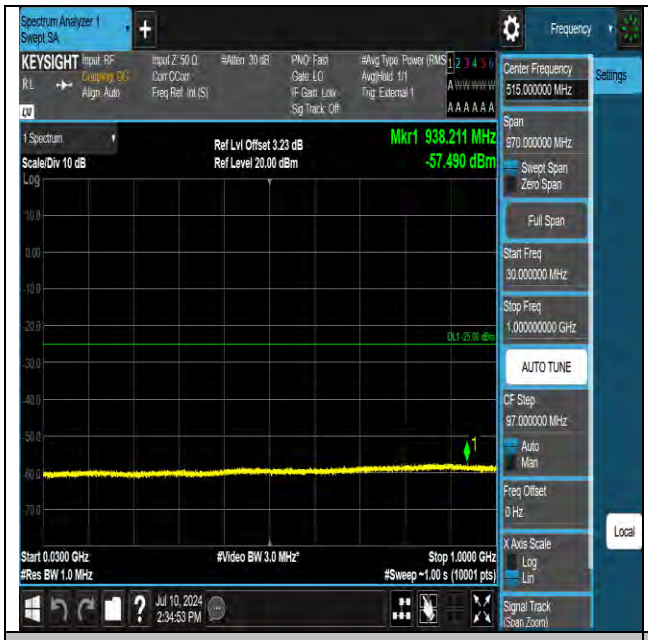
Band38_10MHz_QPSK_38200_1RB#0_1000~10000_1000~10000




Band38_10MHz_QPSK_38200_1RB#0_10000~20000_10000~20000

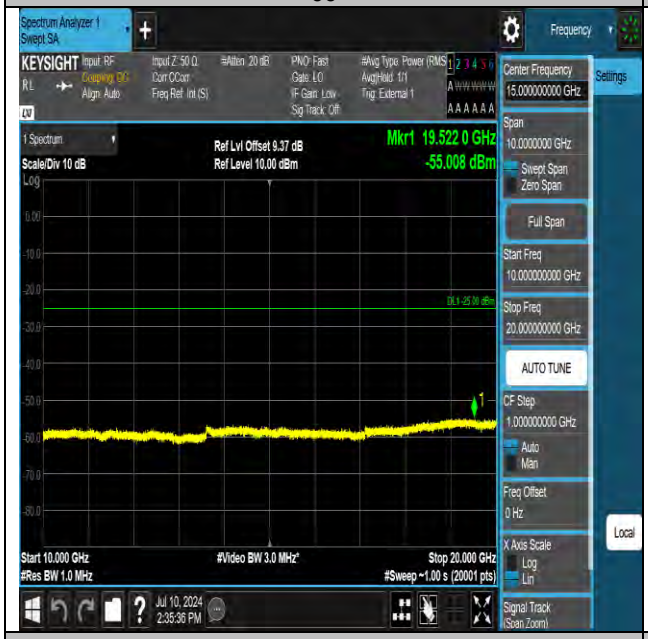



Band38_10MHz_QPSK_38200_1RB#0_20000~27000_20000~27000

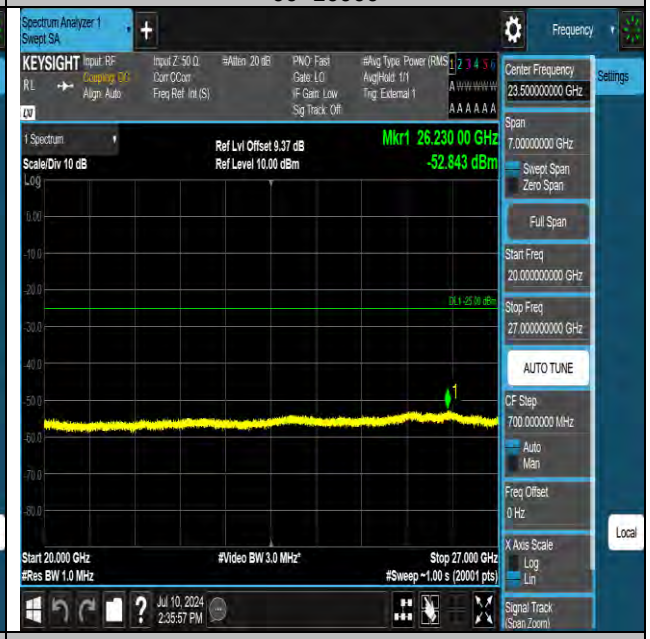



Band38_15MHz_QPSK_37825_1RB#0_30~1000_30~1000

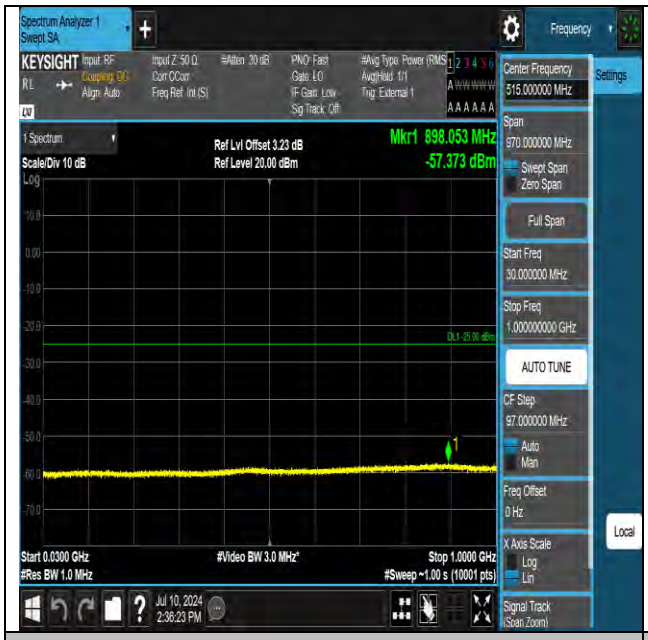
Band38_15MHz_QPSK_37825_1RB#0_1000~10000_1000~10000




Band38_15MHz_QPSK_37825_1RB#0_10000~20000_10000~20000

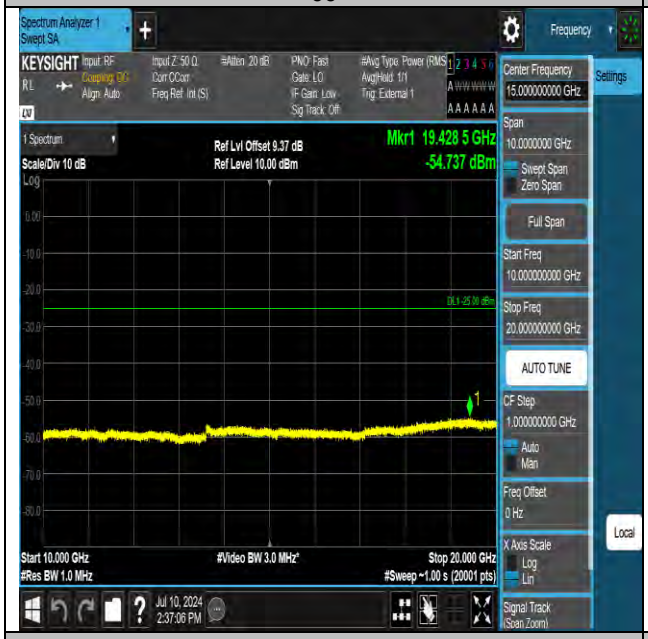



Band38_15MHz_QPSK_37825_1RB#0_20000~27000_20000~27000

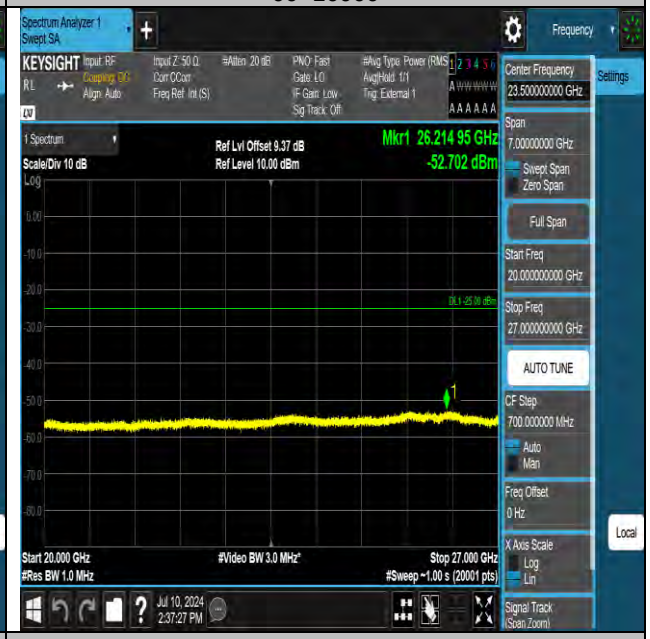



Band38_15MHz_QPSK_38000_1RB#0_30~1000_30~1000

Band38_15MHz_QPSK_38000_1RB#0_1000~10000_1000~10000



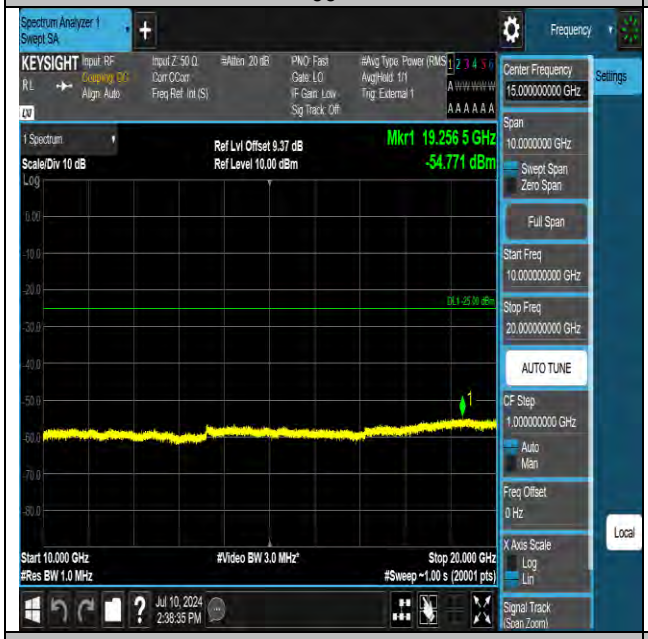

Band38_15MHz_QPSK_38000_1RB#0_10000~20000_10000~20000



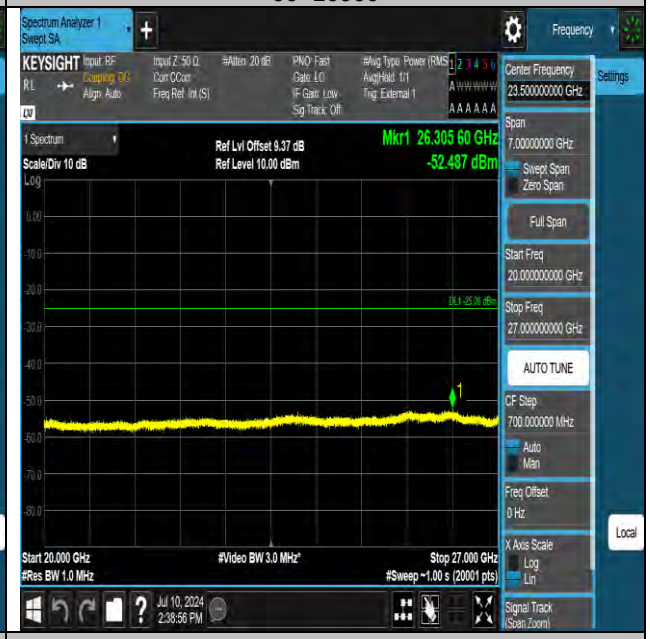

Band38_15MHz_QPSK_38000_1RB#0_20000~27000_20000~27000

Band38_15MHz_QPSK_38175_1RB#0_30~1000_30~1000

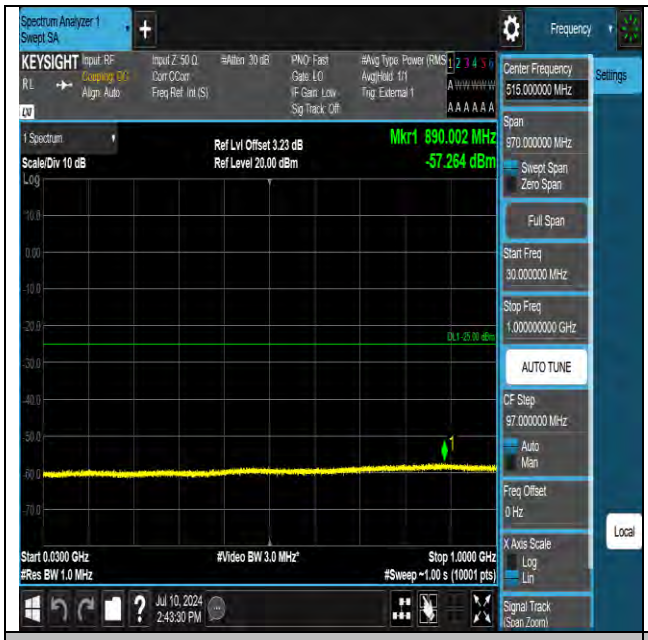
Band38_15MHz_QPSK_38175_1RB#0_1000~10000_1000~10000




Band38_15MHz_QPSK_38175_1RB#0_10000~20000_10000~20000

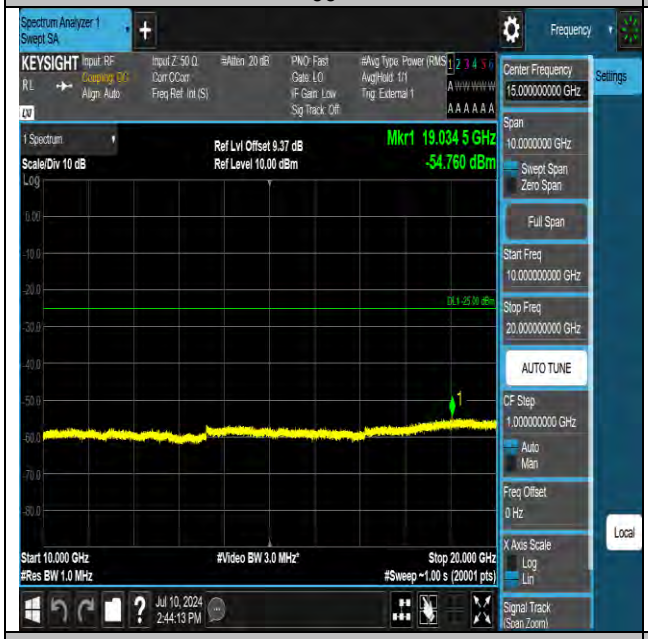



Band38_15MHz_QPSK_38175_1RB#0_20000~27000_20000~27000

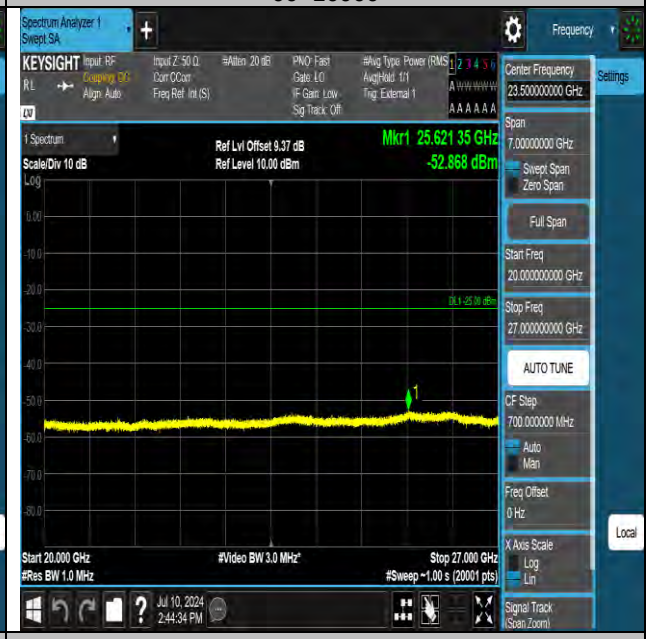



Band38_20MHz_QPSK_37850_1RB#0_30~1000_30~1000

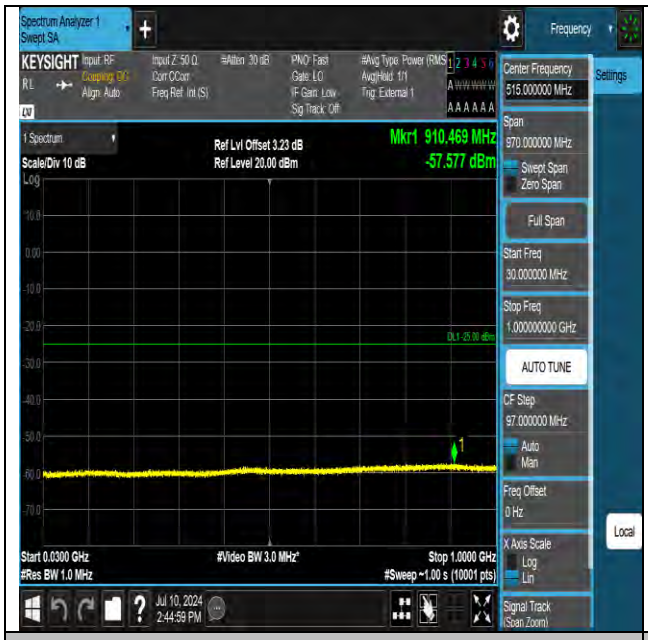
Band38_20MHz_QPSK_37850_1RB#0_1000~10000_1000~10000




Band38_20MHz_QPSK_37850_1RB#0_10000~20000_10000~20000

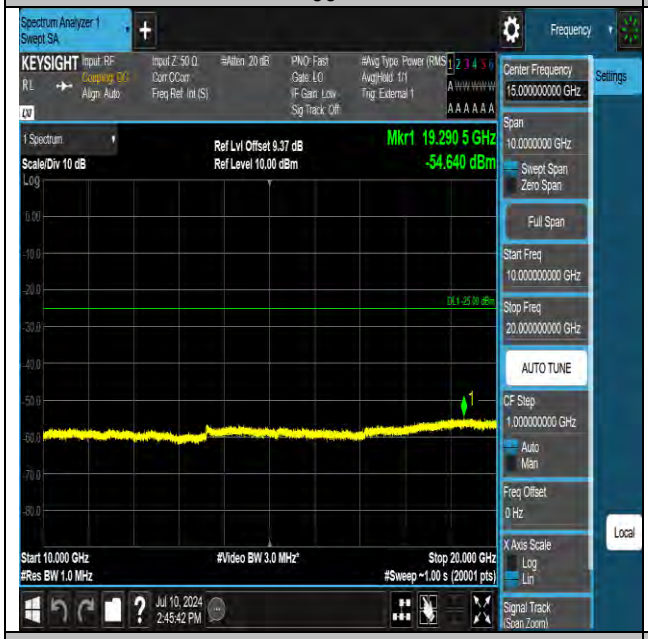



Band38_20MHz_QPSK_37850_1RB#0_20000~27000_20000~27000

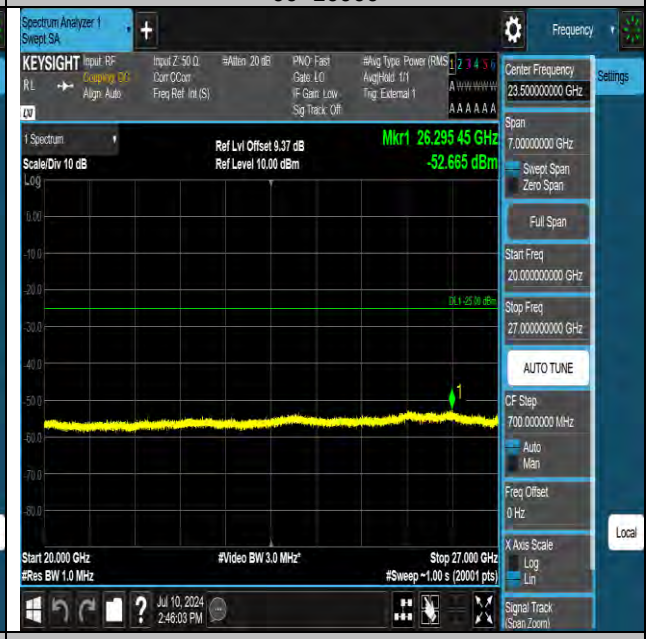



Band38_20MHz_QPSK_38000_1RB#0_30~1000_30~1000

Band38_20MHz_QPSK_38000_1RB#0_1000~10000_1000~10000



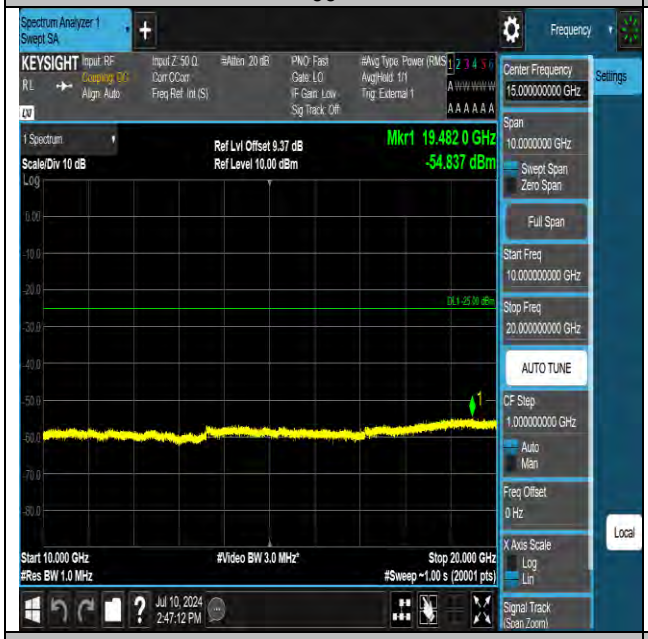

Band38_20MHz_QPSK_38000_1RB#0_10000~20000_10000~20000



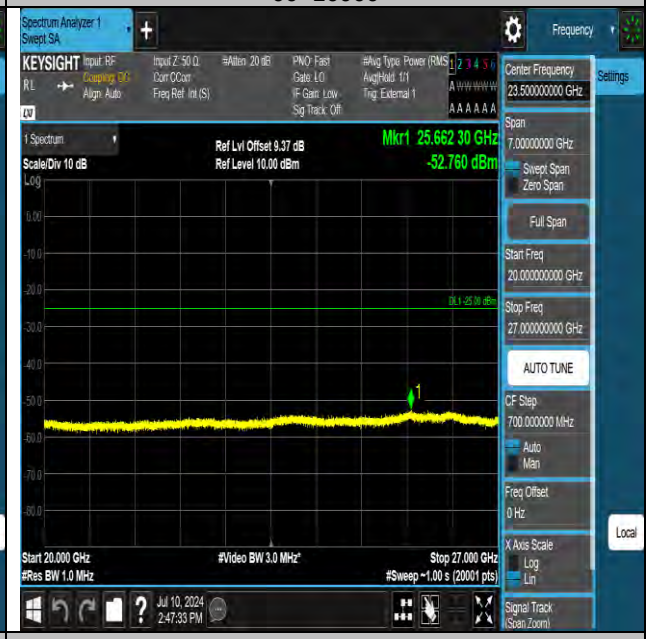

Band38_20MHz_QPSK_38000_1RB#0_20000~27000_20000~27000

Band38_20MHz_QPSK_38150_1RB#0_30~1000_30~1000

Band38_20MHz_QPSK_38150_1RB#0_1000~10000_1000~10000




Band38_20MHz_QPSK_38150_1RB#0_10000~20000_10000~20000




Band38_20MHz_QPSK_38150_1RB#0_20000~27000_20000~27000

# FREQUENCY STABILITY
## TEST RESULT

| Voltage | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | FL (MHz) | FH (MHz) | Limit (MHz) | Verdict |
| Band38 | 10MHz | QPSK | 37800 | 50RB #0 | VN | NT | -1088.62 | -0.422766 | 2570.51446 | --- | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB #0 | VL | NT | 1247.22 | 0.484358 | 2570.52065 | --- | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB #0 | VH | NT | -1234.47 | -0.479405 | 2570.51858 | --- | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB #0 | VN | NT | 901.26 | 0.344649 | --- | 2619.46328 | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB #0 | VL | NT | -1058.22 | -0.404674 | --- | 2619.46276 | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB #0 | VH | NT | -1291.28 | -0.493799 | --- | 2619.46076 | 2570-2620 | PASS |

| Temperature | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | FL (MHz) | FH (MHz) | Limit (MHz) | Verdict |
| Band38 | 10MHz | QPSK | 37800 | 50RB #0 | NV | -30 | -1096.16 | -0.425692 | 2570.51817 | --- | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB #0 | NV | -20 | 1234.25 | 0.479320 | 2570.53001 | --- | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB #0 | NV | -10 | -1304.52 | -0.506610 | 2570.51938 | --- | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB #0 | NV | 0 | -1406.24 | -0.546112 | 2570.53009 | --- | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB #0 | NV | 10 | 1419.07 | 0.551093 | 2570.52335 | --- | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB #0 | NV | 20 | -1503.79 | -0.583997 | 2570.52085 | --- | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB #0 | NV | 30 | 1442.03 | 0.560010 | 2570.51869 | --- | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB #0 | NV | 40 | 1298.60 | 0.504309 | 2570.53747 | --- | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 37800 | 50RB #0 | NV | 50 | -1327.17 | -0.515406 | 2570.53713 | --- | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB #0 | NV | -30 | 950.70 | 0.363558 | --- | 2619.45468 | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB #0 | NV | -20 | -1058.77 | -0.404882 | --- | 2619.46278 | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB #0 | NV | -10 | -1126.44 | -0.430763 | --- | 2619.46055 | 2570-2620 | PASS |
| Band3 | 10MH | QPSK | 38200 | 50RB | NV | 0 | 1094. | 0.418 | --- | 2619. | 2570- | PASS |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | z | | | #0 | | | 29 | 466 | | 46182 | 2620 | |
| Band38 | 10MHz | QPSK | 38200 | 50RB #0 | NV | 10 | 930.59 | 0.355866 | --- | 2619.46266 | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB #0 | NV | 20 | -606.85 | -0.232064 | --- | 2619.45488 | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB #0 | NV | 30 | -696.29 | -0.266267 | --- | 2619.46097 | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB #0 | NV | 40 | -959.26 | -0.366831 | --- | 2619.46349 | 2570-2620 | PASS |
| Band38 | 10MHz | QPSK | 38200 | 50RB #0 | NV | 50 | -939.24 | -0.359173 | --- | 2619.46326 | 2570-2620 | PASS |

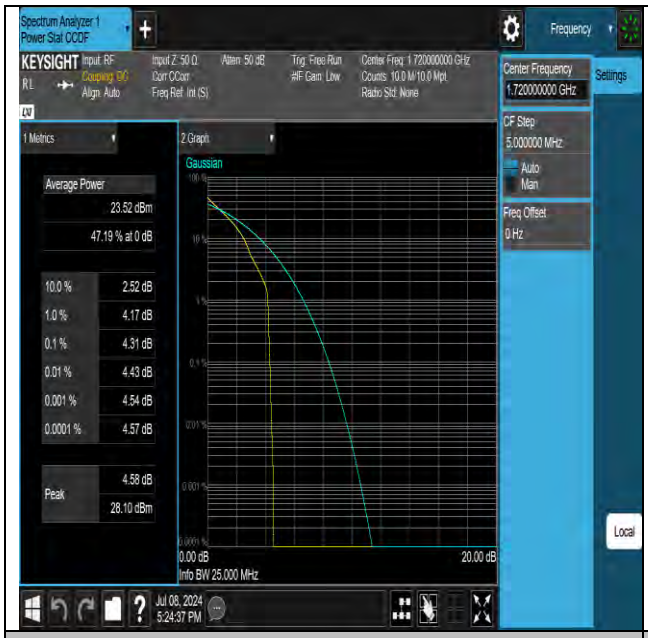
# LTE BAND 66(INCLUDING B4)

## PEAK-TO-AVERAGE RATIO(CCDF)

### TEST RESULT

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---|---|---|---|---|---|---|---|
| Band66 | 20MHz | QPSK | 132072 | 1RB#0 | 4.31 | 13 | PASS |
| Band66 | 20MHz | QPSK | 132072 | 100RB#0 | 5.35 | 13 | PASS |
| Band66 | 20MHz | QPSK | 132322 | 1RB#0 | 4.08 | 13 | PASS |
| Band66 | 20MHz | QPSK | 132322 | 100RB#0 | 5.34 | 13 | PASS |
| Band66 | 20MHz | QPSK | 132572 | 1RB#0 | 4.17 | 13 | PASS |
| Band66 | 20MHz | QPSK | 132572 | 100RB#0 | 5.23 | 13 | PASS |

## TEST GRAPHS

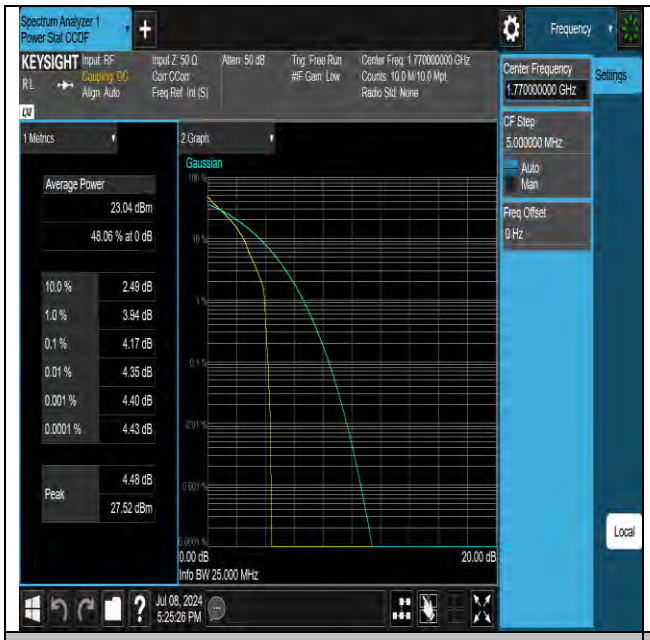



Band66-20MHz-QPSK-132072-1RB#0-PASS

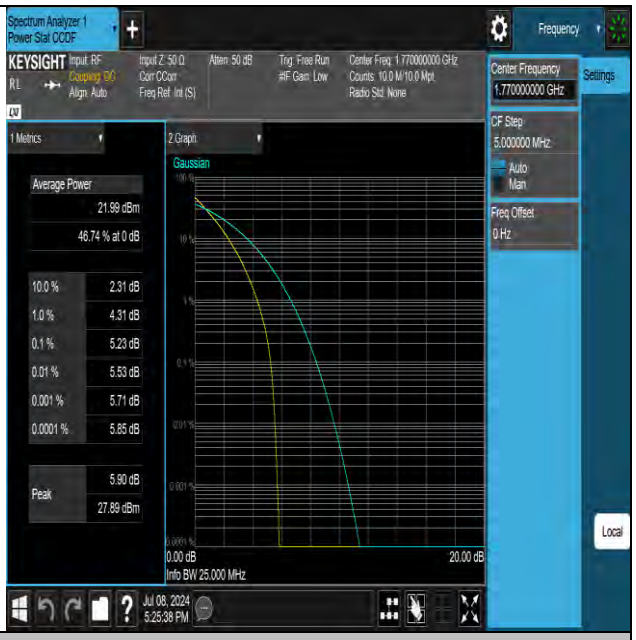
Band66-20MHz-QPSK-132072-100RB#0-PASS

Band66-20MHz-QPSK-132322-1RB#0-PASS

Band66-20MHz-QPSK-132322-100RB#0-PASS




Band66-20MHz-QPSK-132572-1RB#0-PASS

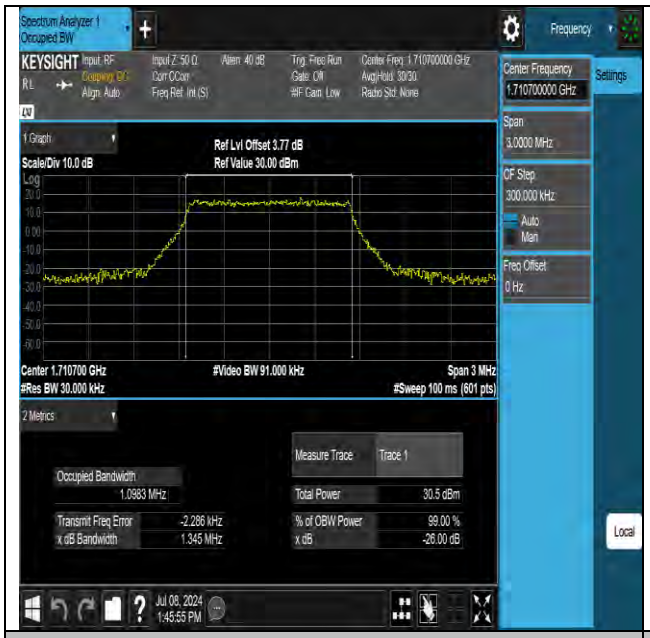



Band66-20MHz-QPSK-132572-100RB#0-PASS

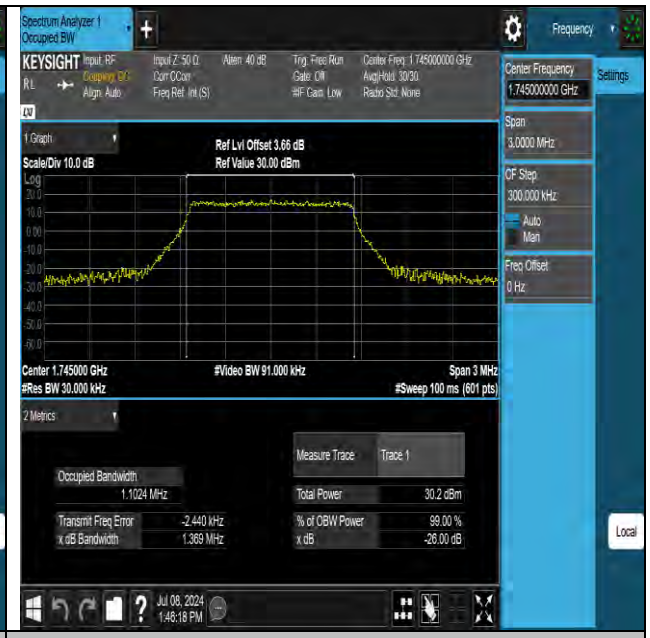
# 26DB BANDWIDTH AND OCCUPIED BANDWIDTH
## TEST RESULT

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| Band66 | 1.4MHz | QPSK | 131979 | 6RB#0 | 1.0983 | 1.345 | PASS |
| Band66 | 1.4MHz | QPSK | 132322 | 6RB#0 | 1.1024 | 1.369 | PASS |
| Band66 | 1.4MHz | QPSK | 132665 | 6RB#0 | 1.1002 | 1.376 | PASS |
| Band66 | 1.4MHz | 16QAM | 131979 | 6RB#0 | 1.1012 | 1.356 | PASS |
| Band66 | 1.4MHz | 16QAM | 132322 | 6RB#0 | 1.1076 | 1.383 | PASS |
| Band66 | 1.4MHz | 16QAM | 132665 | 6RB#0 | 1.0997 | 1.356 | PASS |
| Band66 | 3MHz | QPSK | 131987 | 15RB#0 | 2.7021 | 3.058 | PASS |
| Band66 | 3MHz | QPSK | 132322 | 15RB#0 | 2.7069 | 3.042 | PASS |
| Band66 | 3MHz | QPSK | 132657 | 15RB#0 | 2.7030 | 3.042 | PASS |
| Band66 | 3MHz | 16QAM | 131987 | 15RB#0 | 2.6984 | 3.037 | PASS |
| Band66 | 3MHz | 16QAM | 132322 | 15RB#0 | 2.6990 | 3.056 | PASS |
| Band66 | 3MHz | 16QAM | 132657 | 15RB#0 | 2.7053 | 3.039 | PASS |
| Band66 | 5MHz | QPSK | 131997 | 25RB#0 | 4.5386 | 5.207 | PASS |
| Band66 | 5MHz | QPSK | 132322 | 25RB#0 | 4.5213 | 5.222 | PASS |
| Band66 | 5MHz | QPSK | 132647 | 25RB#0 | 4.5334 | 5.204 | PASS |
| Band66 | 5MHz | 16QAM | 131997 | 25RB#0 | 4.5231 | 5.202 | PASS |
| Band66 | 5MHz | 16QAM | 132322 | 25RB#0 | 4.5297 | 5.134 | PASS |
| Band66 | 5MHz | 16QAM | 132647 | 25RB#0 | 4.5190 | 5.177 | PASS |
| Band66 | 10MHz | QPSK | 132022 | 50RB#0 | 9.0199 | 10.07 | PASS |
| Band66 | 10MHz | QPSK | 132322 | 50RB#0 | 8.9950 | 10.00 | PASS |
| Band66 | 10MHz | QPSK | 132622 | 50RB#0 | 9.0035 | 10.13 | PASS |
| Band66 | 10MHz | 16QAM | 132022 | 50RB#0 | 9.0196 | 10.09 | PASS |
| Band66 | 10MHz | 16QAM | 132322 | 50RB#0 | 8.9968 | 10.07 | PASS |
| Band66 | 10MHz | 16QAM | 132622 | 50RB#0 | 9.0074 | 10.05 | PASS |
| Band66 | 15MHz | QPSK | 132047 | 75RB#0 | 13.494 | 15.04 | PASS |
| Band66 | 15MHz | QPSK | 132322 | 75RB#0 | 13.520 | 14.89 | PASS |
| Band66 | 15MHz | QPSK | 132597 | 75RB#0 | 13.494 | 14.86 | PASS |
| Band66 | 15MHz | 16QAM | 132047 | 75RB#0 | 13.492 | 15.01 | PASS |
| Band66 | 15MHz | 16QAM | 132322 | 75RB#0 | 13.486 | 15.03 | PASS |
| Band66 | 15MHz | 16QAM | 132597 | 75RB#0 | 13.490 | 14.87 | PASS |
| Band66 | 20MHz | QPSK | 132072 | 100RB#0 | 18.017 | 20.06 | PASS |
| Band66 | 20MHz | QPSK | 132322 | 100RB#0 | 17.958 | 19.65 | PASS |
| Band66 | 20MHz | QPSK | 132572 | 100RB#0 | 17.943 | 19.75 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 100RB#0 | 18.019 | 19.70 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 100RB#0 | 17.983 | 19.68 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 100RB#0 | 17.948 | 19.83 | PASS |

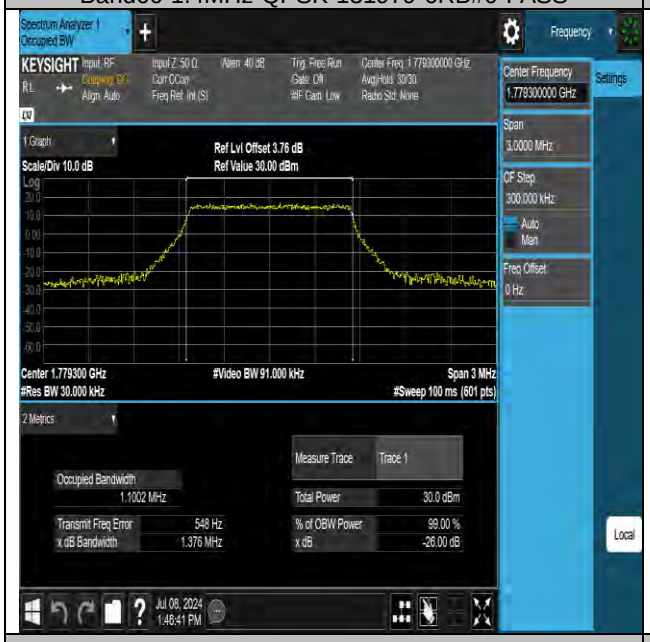
## TEST GRAPHS




Band66-1.4MHz-QPSK-131979-6RB#0-PASS

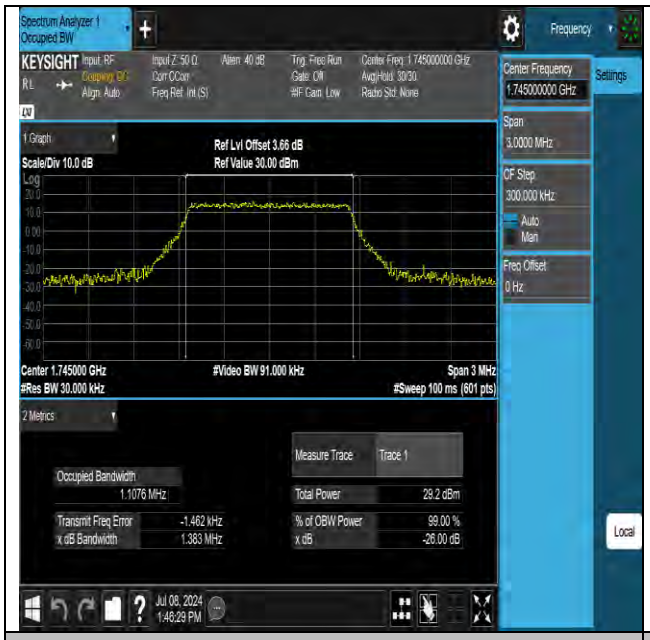



Band66-1.4MHz-QPSK-132322-6RB#0-PASS




Band66-1.4MHz-QPSK-132665-6RB#0-PASS

Band66-1.4MHz-16QAM-131979-6RB#0-PASS




Band66-1.4MHz-16QAM-132322-6RB#0-PASS

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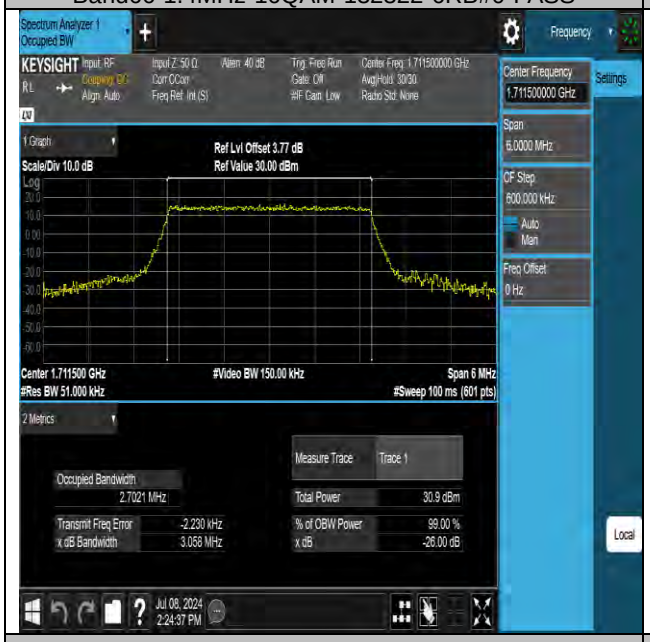
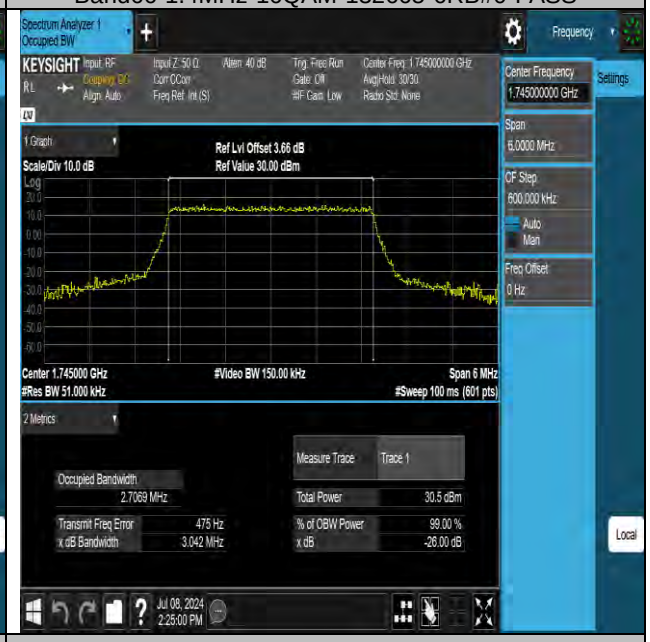



Band66-3MHz-QPSK-131987-15RB#0-PASS

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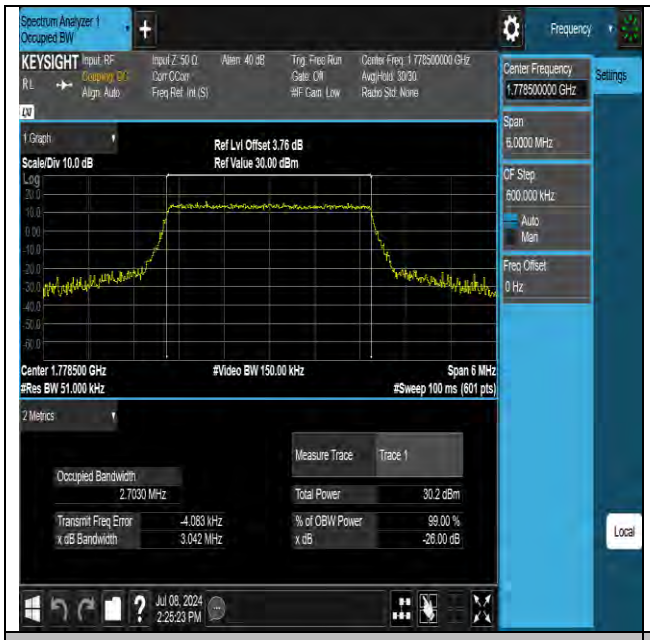


Band66-3MHz-QPSK-132657-15RB#0-PASS

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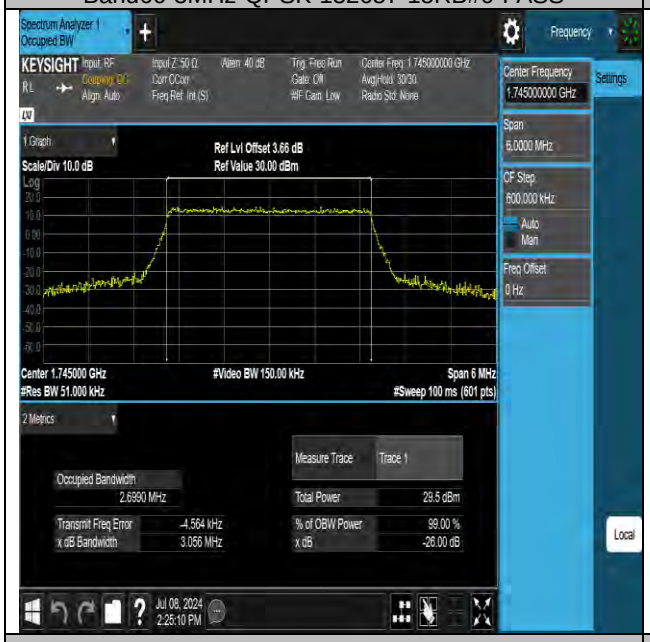


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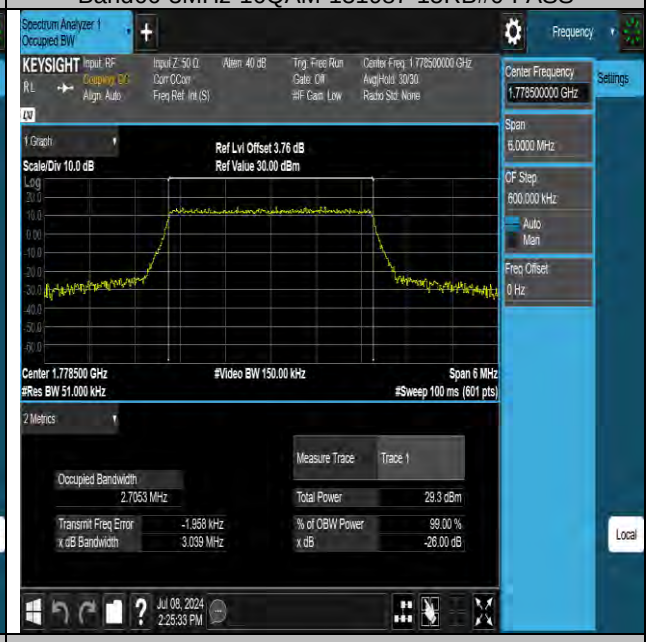


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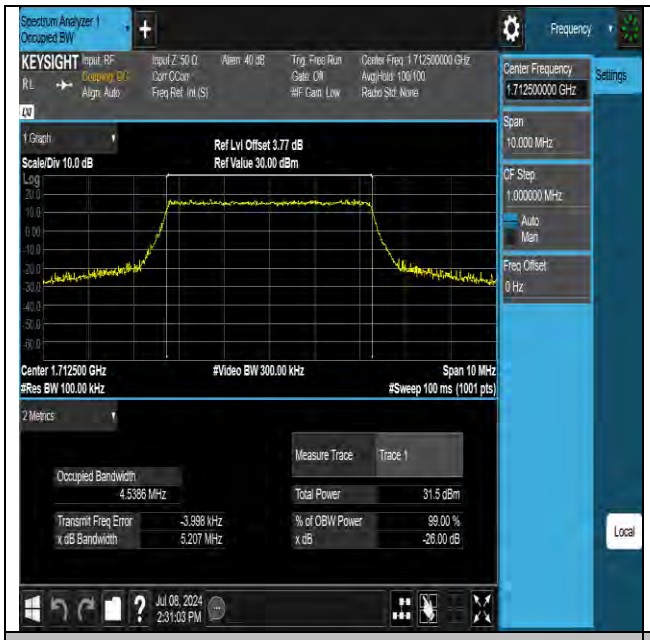
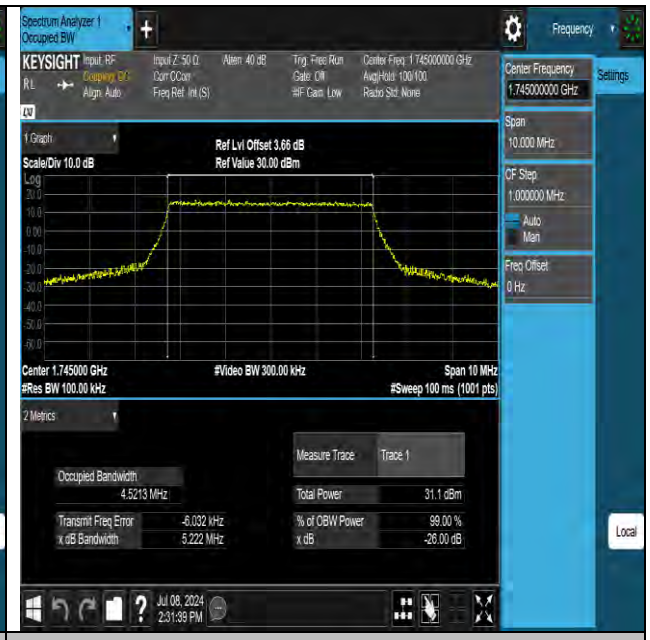
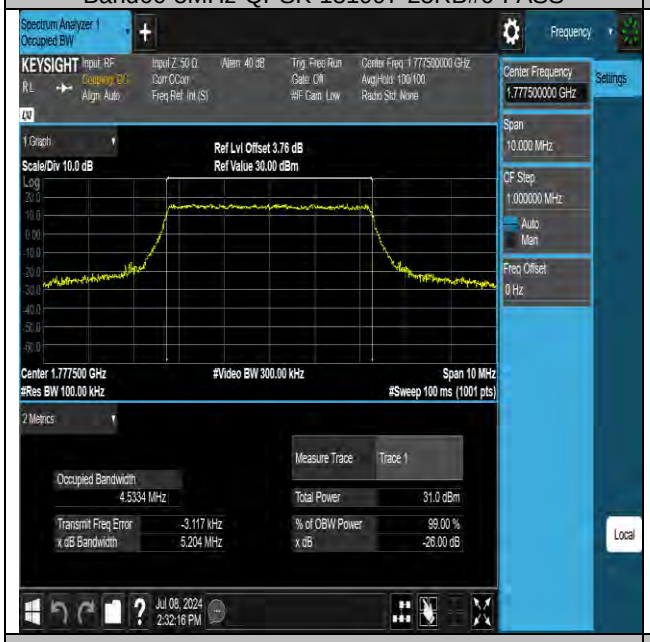



Band66-5MHz-QPSK-131997-25RB#0-PASS




Band66-5MHz-QPSK-132322-25RB#0-PASS

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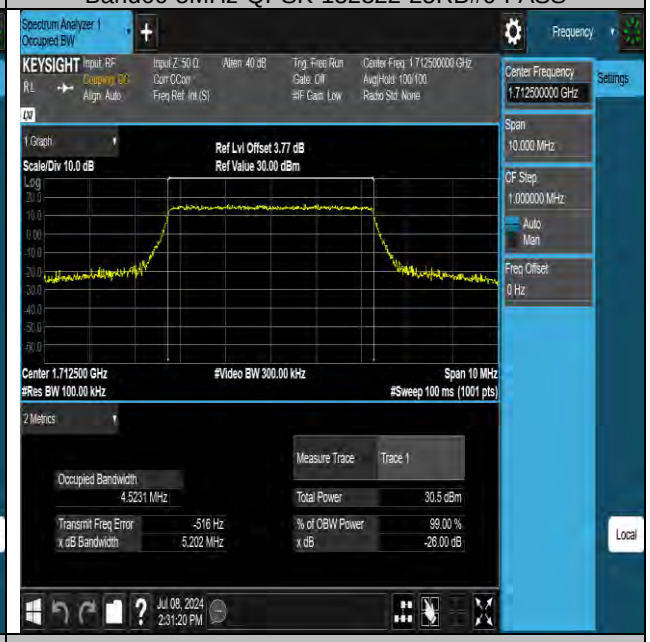


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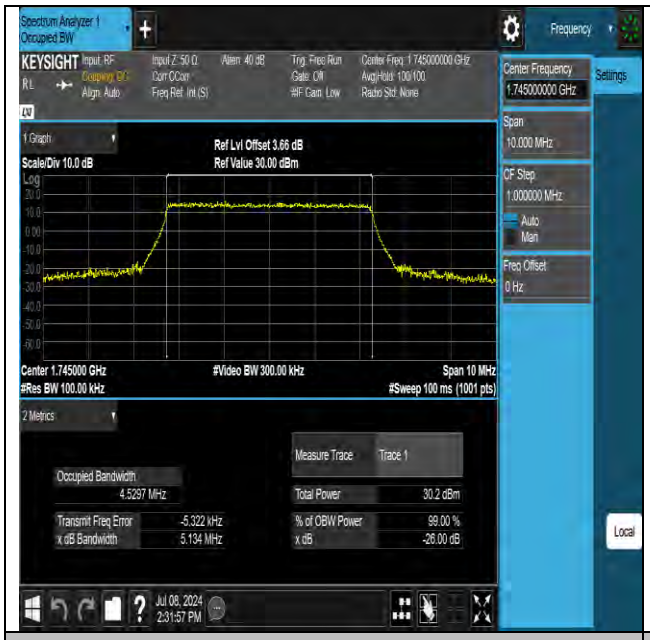
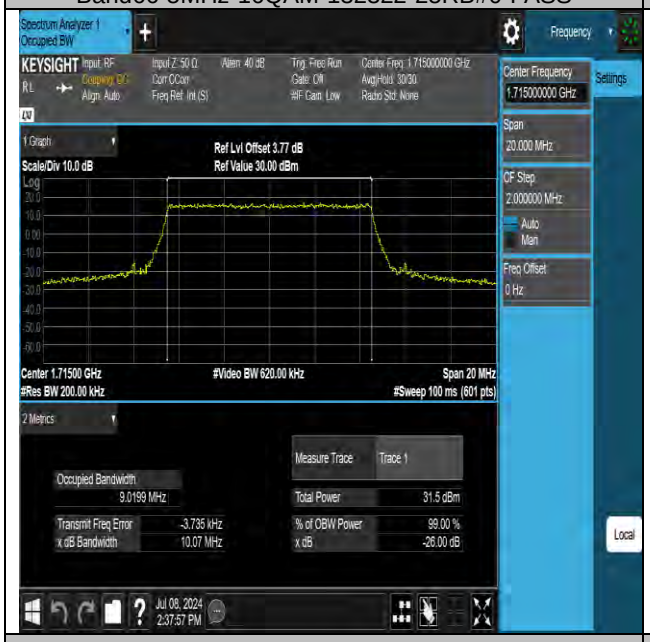



Band66-5MHz-16QAM-132322-25RB#0-PASS

Band66-5MHz-16QAM-132647-25RB#0-PASS

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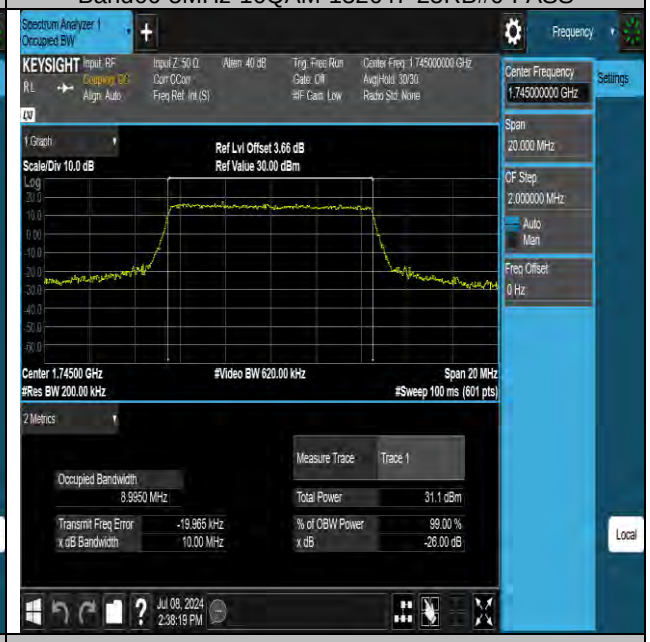


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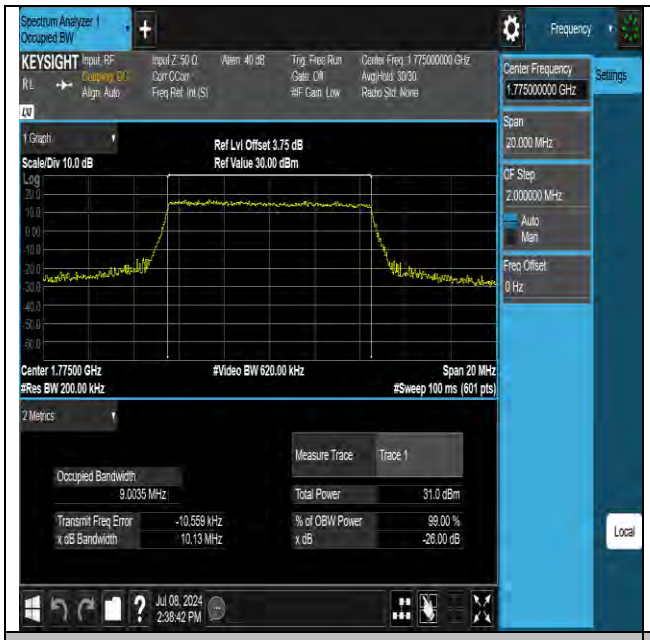
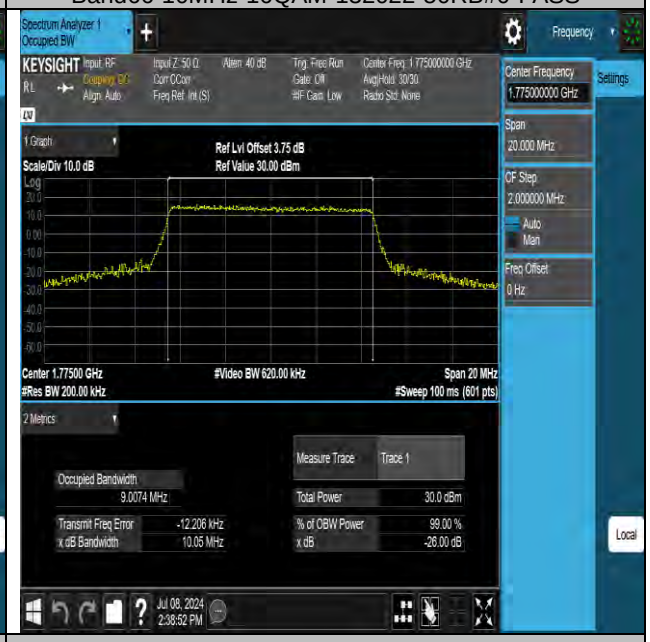



Band66-10MHz-QPSK-132622-50RB#0-PASS

Band66-10MHz-16QAM-132022-50RB#0-PASS

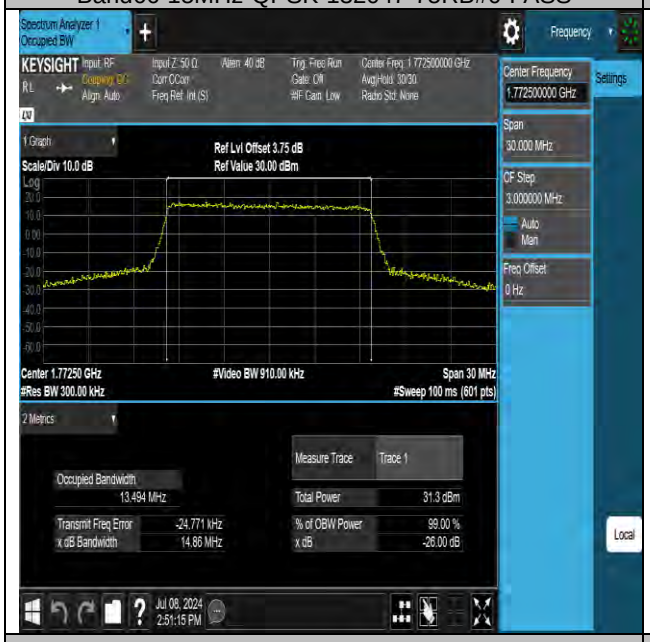
Band66-10MHz-16QAM-132322-50RB#0-PASS



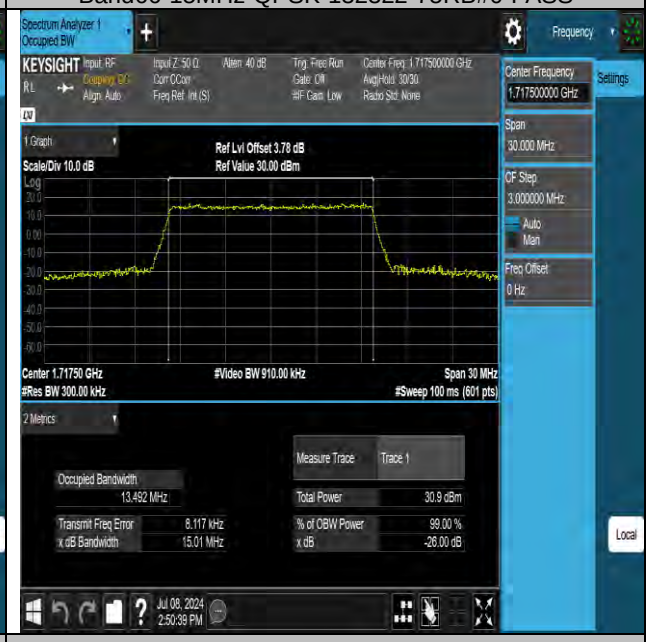

Band66-10MHz-16QAM-132622-50RB#0-PASS

Band66-15MHz-QPSK-132047-75RB#0-PASS

Band66-15MHz-QPSK-132322-75RB#0-PASS




Band66-15MHz-QPSK-132597-75RB#0-PASS




Band66-15MHz-16QAM-132047-75RB#0-PASS