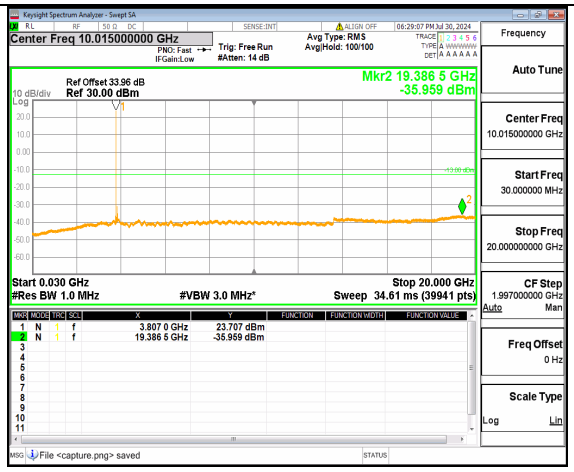
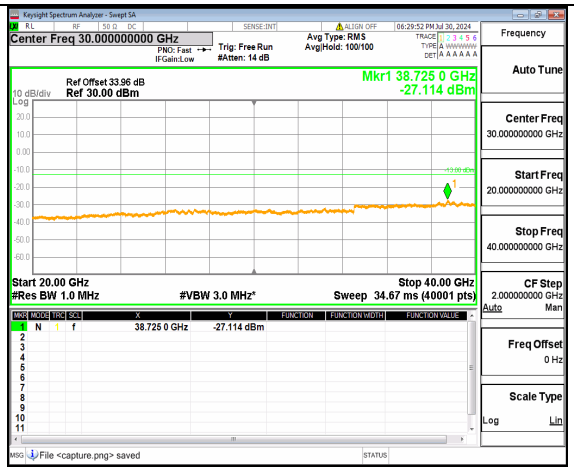
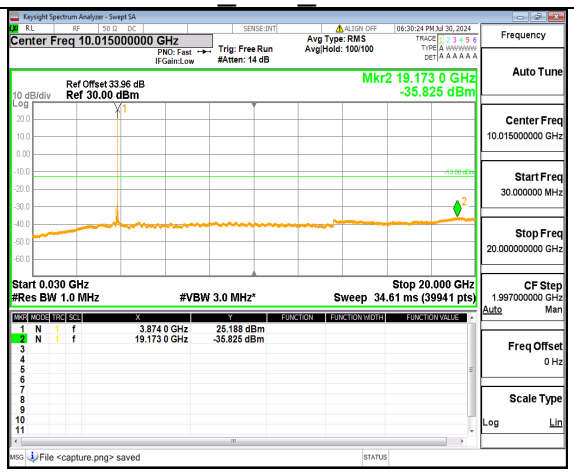


n77(3700-3980MHz) (30MHz-20GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Left Mid

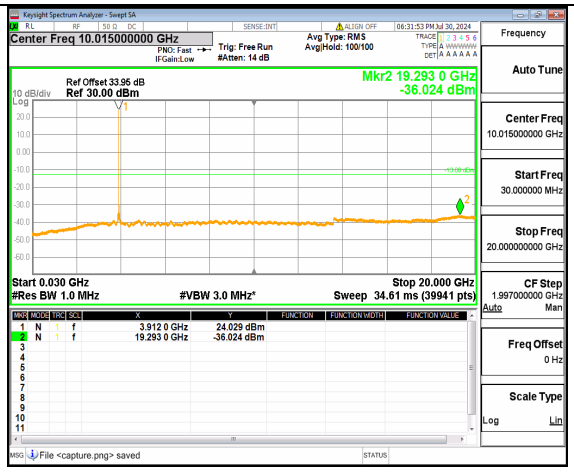


n77(3700-3980MHz) (20GHz-40GHz)
70M DFT-s-OFDM QPSK Inner_1RB_Left Mid

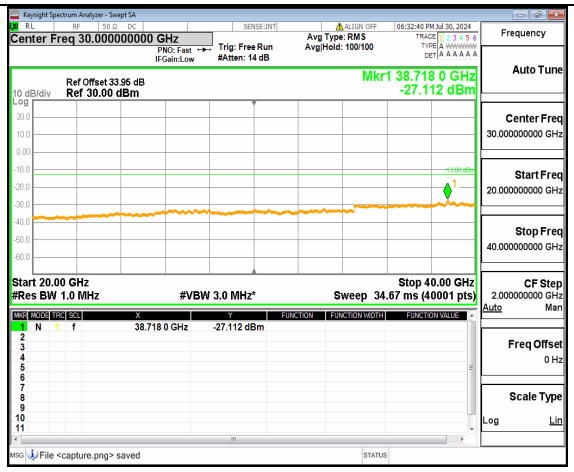


n77(3700-3980MHz) (30MHz-20GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Right Mid

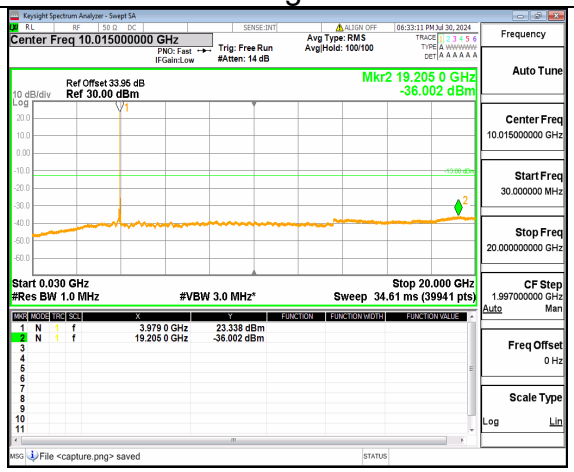
n77(3700-3980MHz) (20GHz-40GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



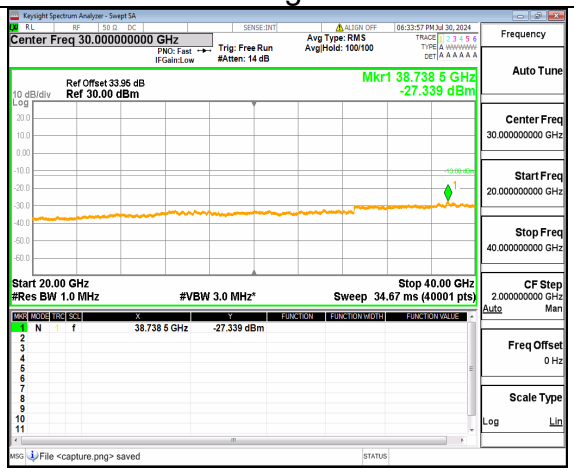
n77(3700-3980MHz) (30MHz-20GHz)
70M DFT-s-OFDM BPSK Inner_1RB_Left High



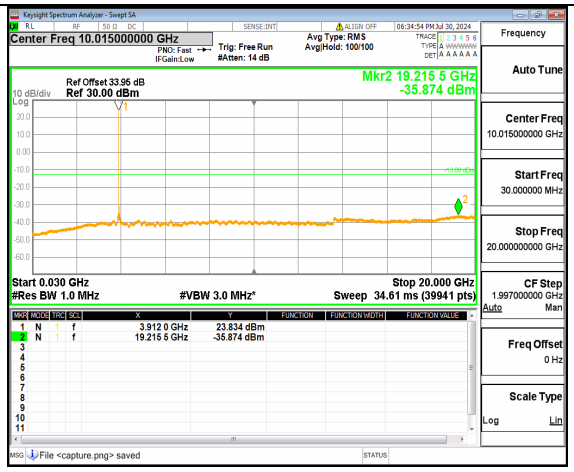
n77(3700-3980MHz) (20GHz-40GHz)
70M DFT-s-OFDM BPSK Inner_1RB_Left High



n77(3700-3980MHz) (30MHz-20GHz)
70M DFT-s-OFDM BPSK
Inner_1RB_Right High

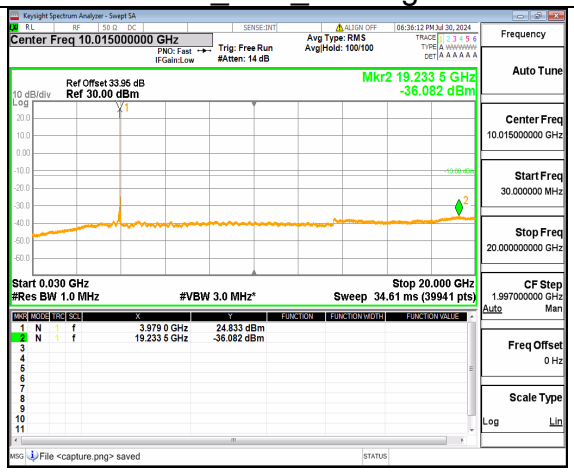


n77(3700-3980MHz) (20GHz-40GHz)
70M DFT-s-OFDM BPSK
Inner_1RB_Right High

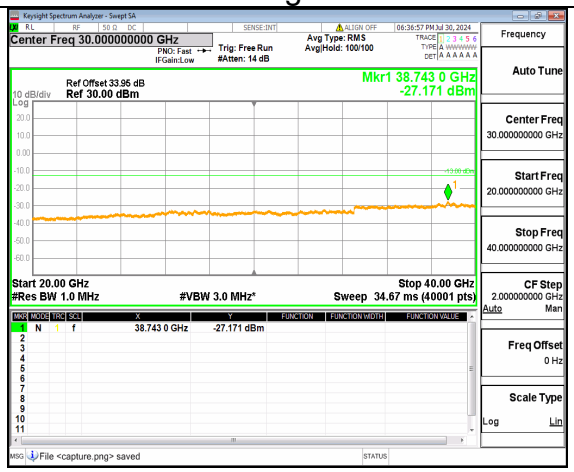


n77(3700-3980MHz) (30MHz-20GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Left High

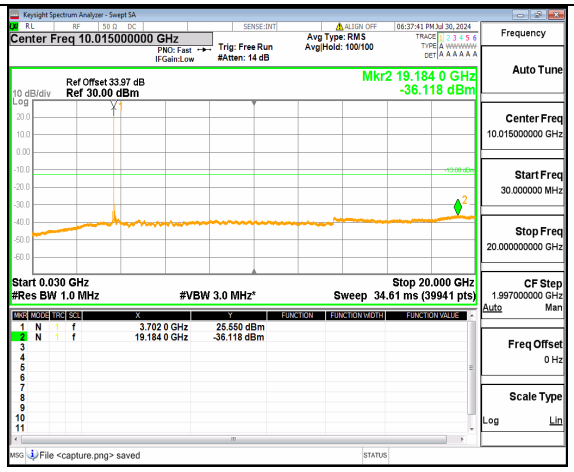
n77(3700-3980MHz) (20GHz-40GHz)
70M DFT-s-OFDM QPSK Inner_1RB_Left
High



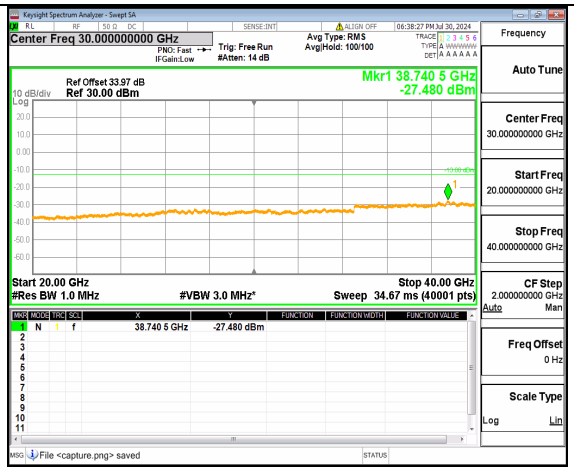
n77(3700-3980MHz) (30MHz-20GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Right High



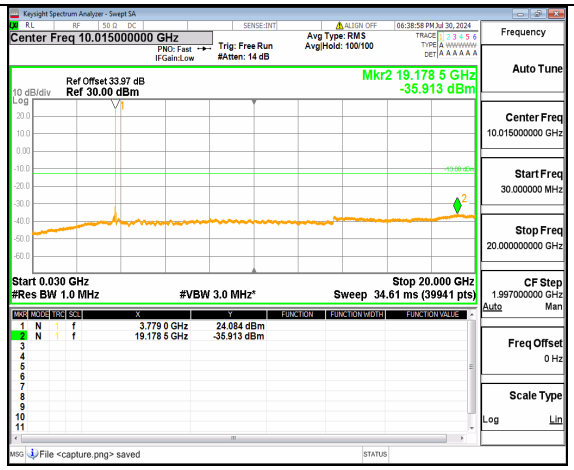
n77(3700-3980MHz) (20GHz-40GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Right High



n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Inner_1RB_Left Low

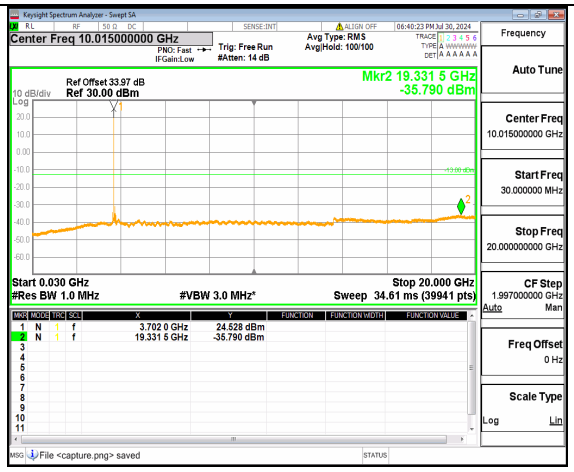


n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Inner_1RB_Left Low



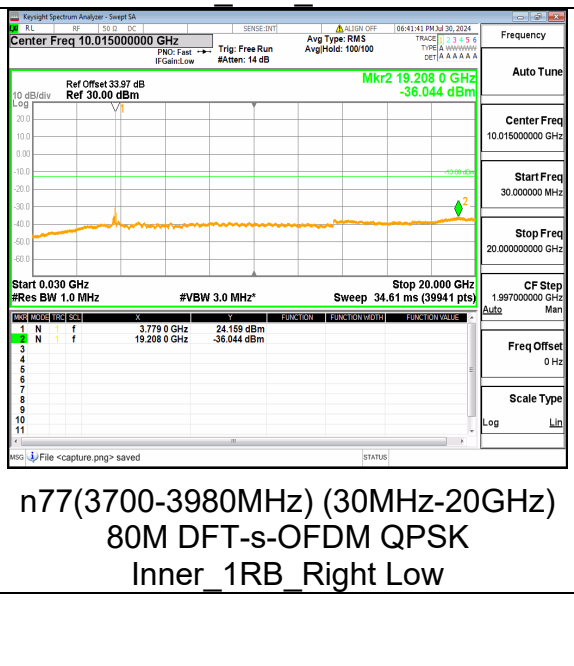
n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Inner_1RB_Right Low

n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Inner_1RB_Right Low

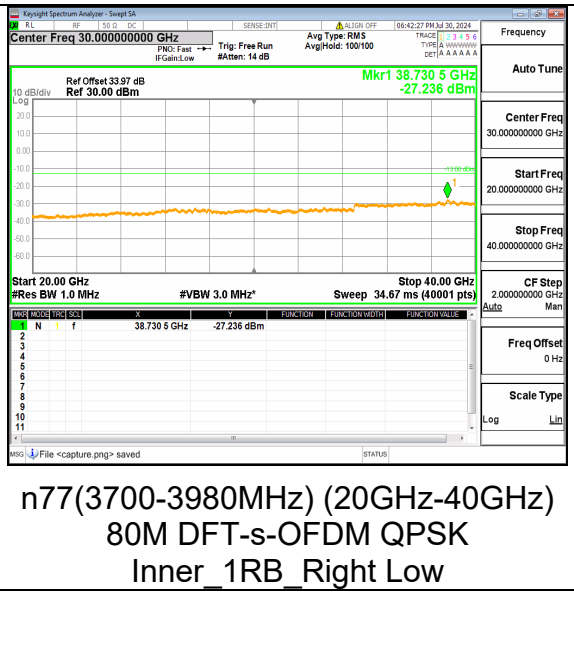


n77(3700-3980MHz) (30MHz-20GHz)
80M DFT-s-OFDM QPSK
Inner_1RB_Left Low

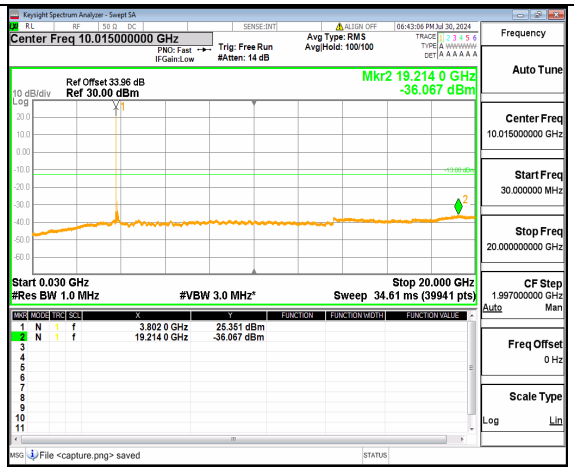
n77(3700-3980MHz) (20GHz-40GHz)
80M DFT-s-OFDM QPSK Inner_1RB_Left
Low



n77(3700-3980MHz) (30MHz-20GHz)
80M DFT-s-OFDM QPSK
Inner_1RB_Right Low

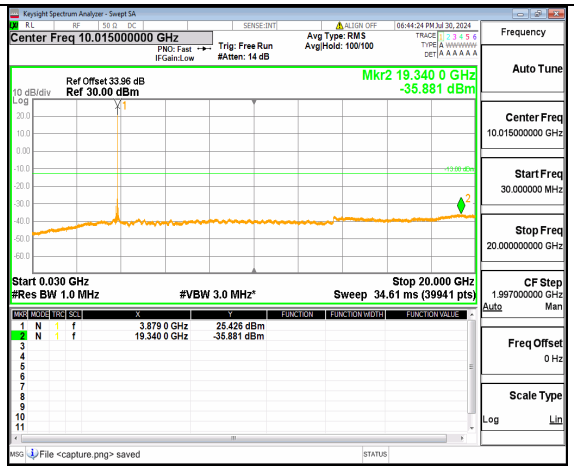


n77(3700-3980MHz) (20GHz-40GHz)
80M DFT-s-OFDM QPSK
Inner_1RB_Right Low



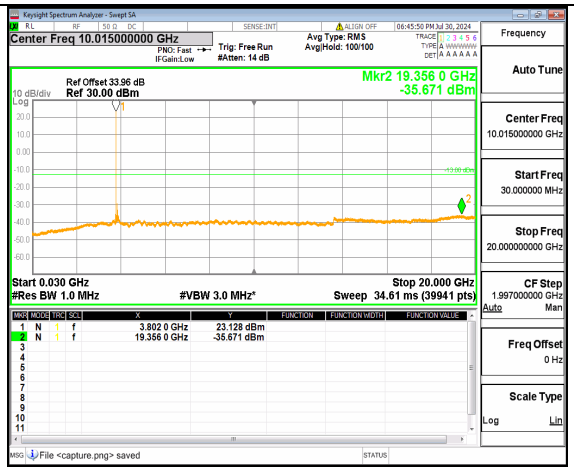
n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Inner_1RB_Left Mid

n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Inner_1RB_Left Mid

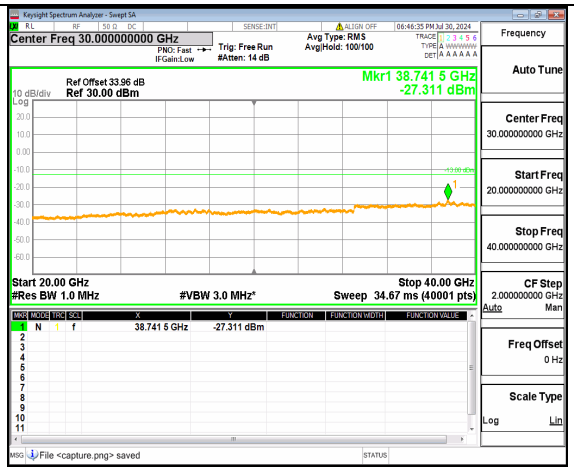


n77(3700-3980MHz) (30MHz-20GHz) 80M DFT-s-OFDM BPSK Inner_1RB_Right Mid

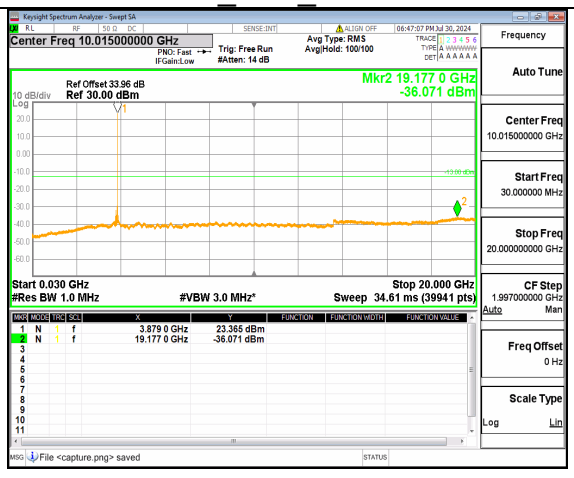
n77(3700-3980MHz) (20GHz-40GHz) 80M DFT-s-OFDM BPSK Inner_1RB_Right Mid



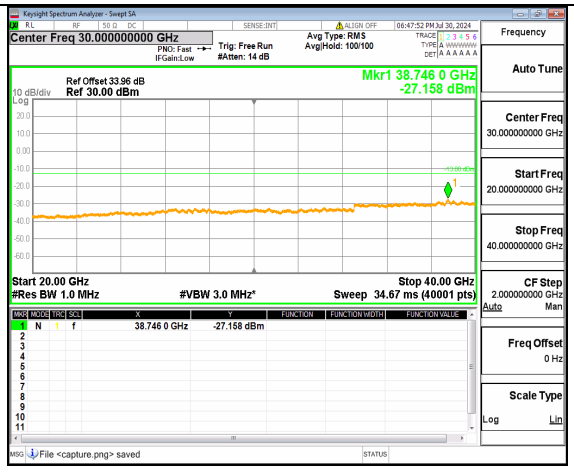
n77(3700-3980MHz) (30MHz-20GHz)
80M DFT-s-OFDM QPSK
Inner_1RB_Left Mid



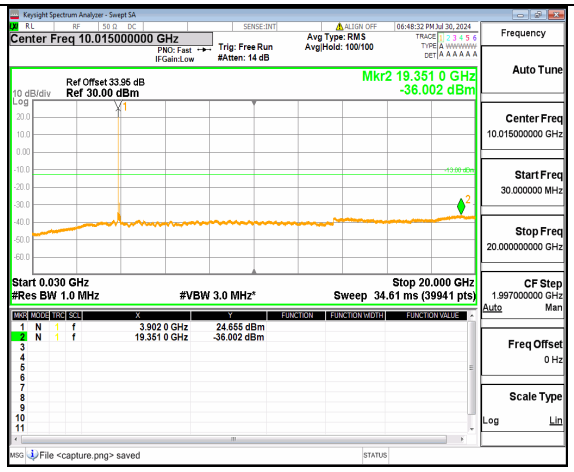
n77(3700-3980MHz) (20GHz-40GHz)
80M DFT-s-OFDM QPSK Inner_1RB_Left Mid



n77(3700-3980MHz) (30MHz-20GHz)
80M DFT-s-OFDM QPSK
Inner_1RB_Right Mid

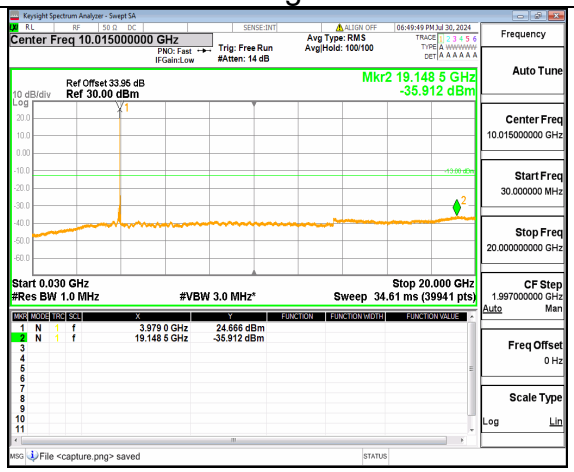


n77(3700-3980MHz) (20GHz-40GHz)
80M DFT-s-OFDM QPSK
Inner_1RB_Right Mid

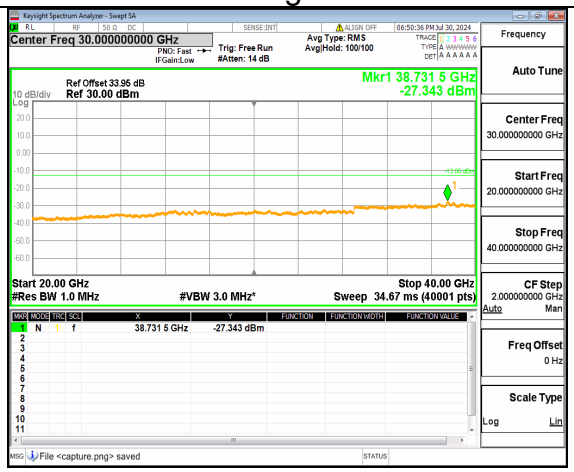


n77(3700-3980MHz) (30MHz-20GHz)
80M DFT-s-OFDM BPSK Inner_1RB_Left High

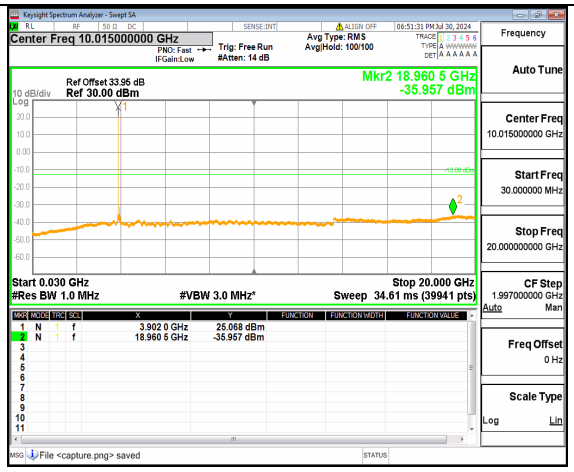
n77(3700-3980MHz) (20GHz-40GHz)
80M DFT-s-OFDM BPSK Inner_1RB_Left High



n77(3700-3980MHz) (30MHz-20GHz)
80M DFT-s-OFDM BPSK
Inner_1RB_Right High

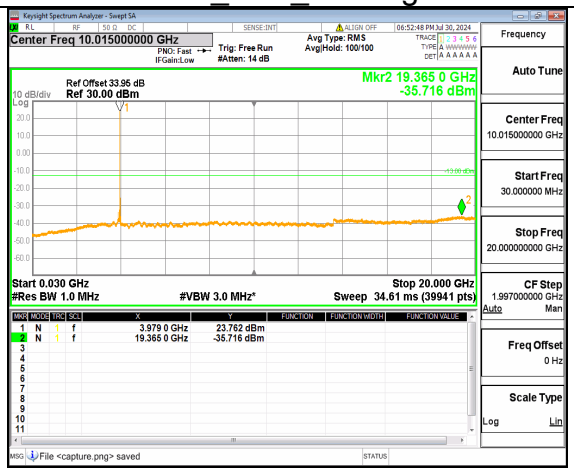


n77(3700-3980MHz) (20GHz-40GHz)
80M DFT-s-OFDM BPSK
Inner_1RB_Right High

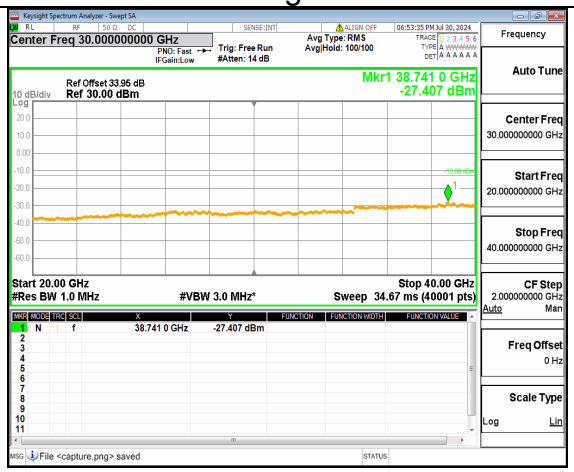


n77(3700-3980MHz) (30MHz-20GHz)
80M DFT-s-OFDM QPSK
Inner_1RB_Left High

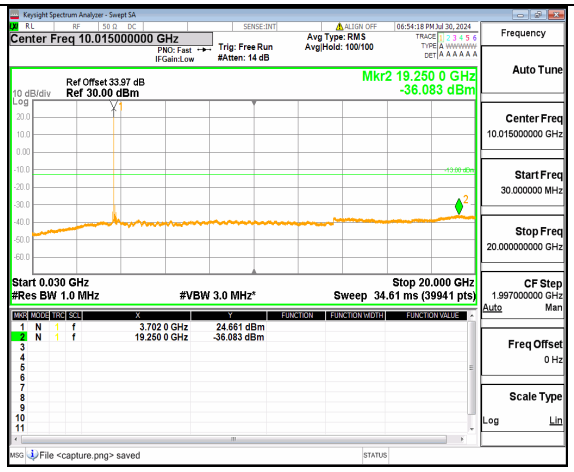
n77(3700-3980MHz) (20GHz-40GHz)
80M DFT-s-OFDM QPSK Inner_1RB_Left
High



n77(3700-3980MHz) (30MHz-20GHz)
80M DFT-s-OFDM QPSK
Inner_1RB_Right High

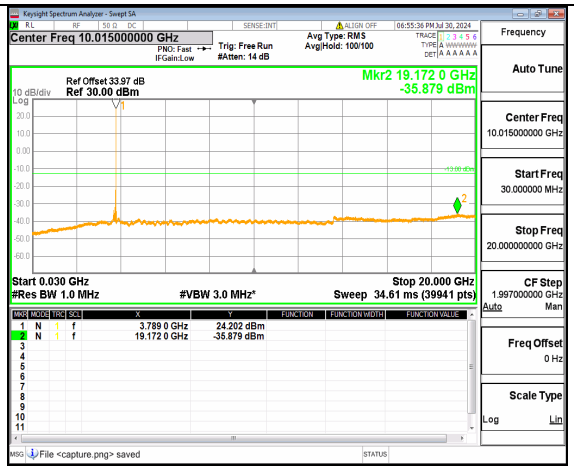


n77(3700-3980MHz) (20GHz-40GHz)
80M DFT-s-OFDM QPSK
Inner_1RB_Right High



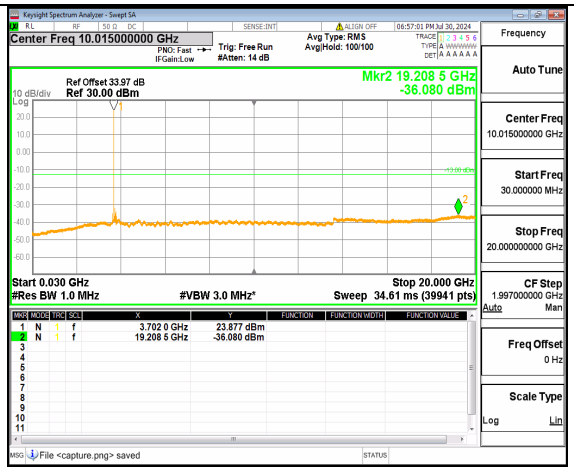
n77(3700-3980MHz) (30MHz-20GHz)
90M DFT-s-OFDM BPSK Inner_1RB_Left Low

n77(3700-3980MHz) (20GHz-40GHz)
90M DFT-s-OFDM BPSK Inner_1RB_Left Low

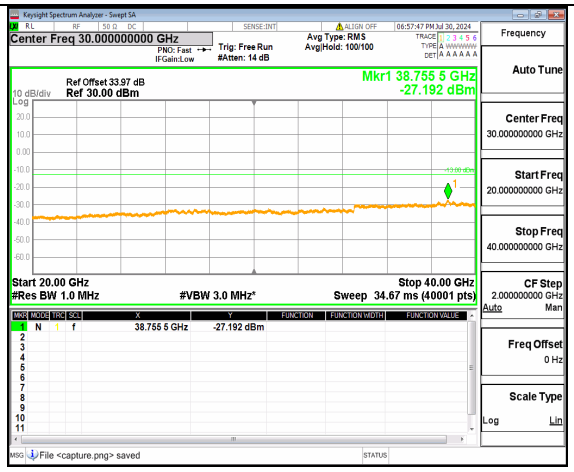


n77(3700-3980MHz) (30MHz-20GHz)
90M DFT-s-OFDM BPSK
Inner_1RB_Right Low

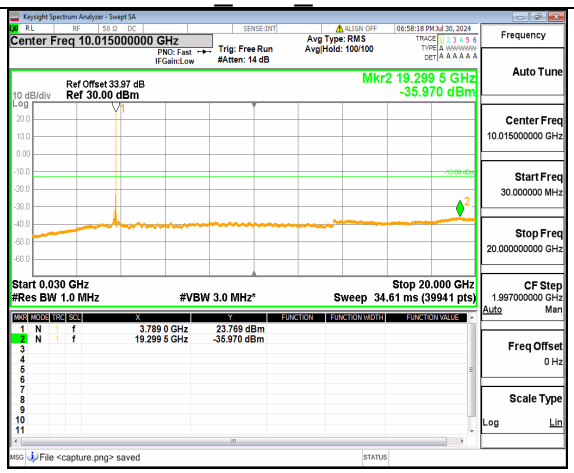
n77(3700-3980MHz) (20GHz-40GHz)
90M DFT-s-OFDM BPSK
Inner_1RB_Right Low



n77(3700-3980MHz) (30MHz-20GHz)
90M DFT-s-OFDM QPSK
Inner_1RB_Left Low

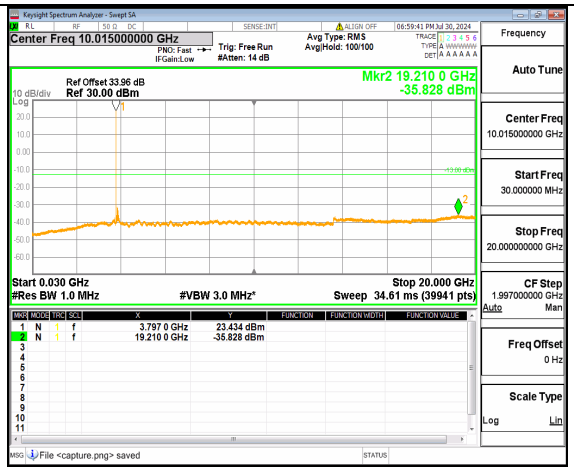


n77(3700-3980MHz) (20GHz-40GHz)
90M DFT-s-OFDM QPSK Inner_1RB_Left
Low



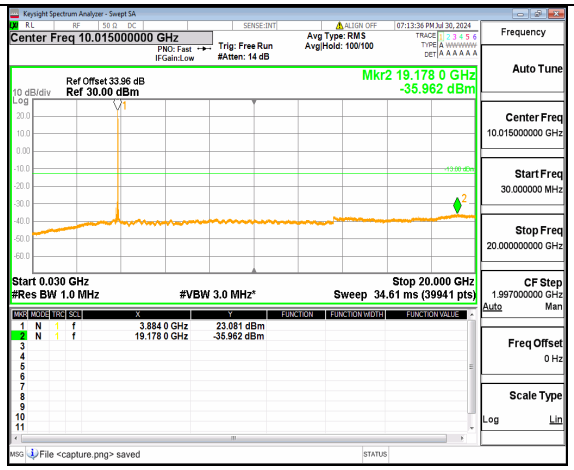
n77(3700-3980MHz) (30MHz-20GHz)
90M DFT-s-OFDM QPSK
Inner_1RB_Right Low

n77(3700-3980MHz) (20GHz-40GHz)
90M DFT-s-OFDM QPSK
Inner_1RB_Right Low



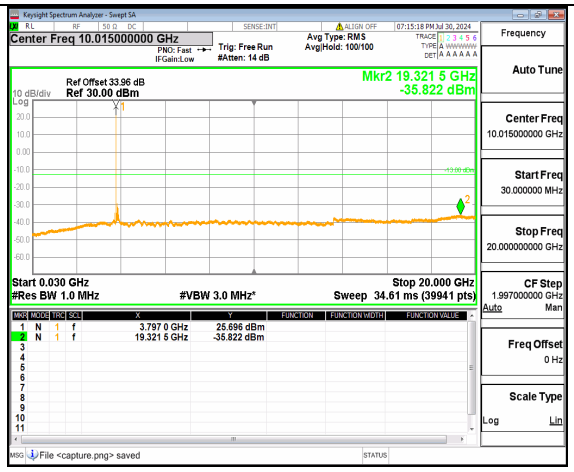
n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM BPSK Inner_1RB_Left Mid

n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM BPSK Inner_1RB_Left Mid



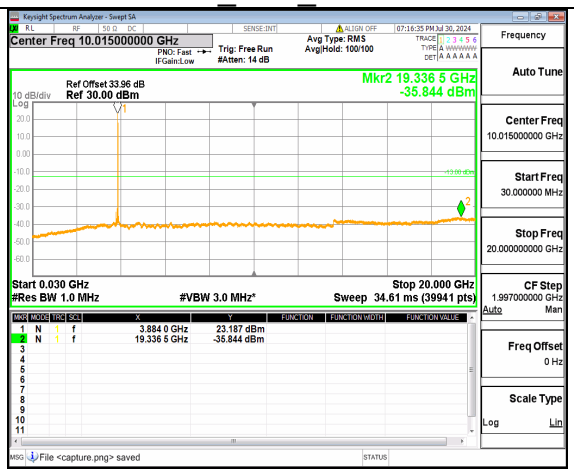
n77(3700-3980MHz) (30MHz-20GHz) 90M DFT-s-OFDM BPSK Inner_1RB_Right Mid

n77(3700-3980MHz) (20GHz-40GHz) 90M DFT-s-OFDM BPSK Inner_1RB_Right Mid



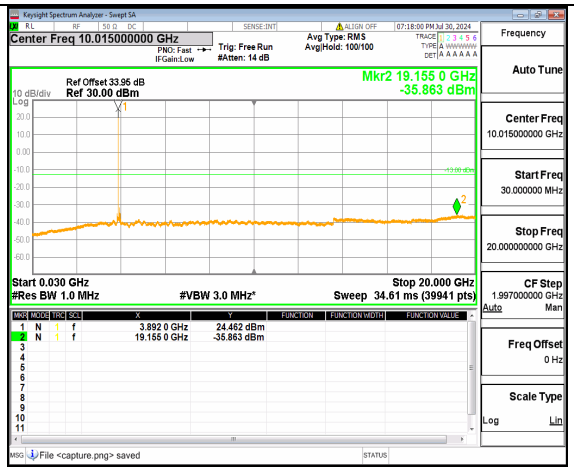
n77(3700-3980MHz) (30MHz-20GHz)
90M DFT-s-OFDM QPSK
Inner_1RB_Left Mid

n77(3700-3980MHz) (20GHz-40GHz)
90M DFT-s-OFDM QPSK Inner_1RB_Left Mid



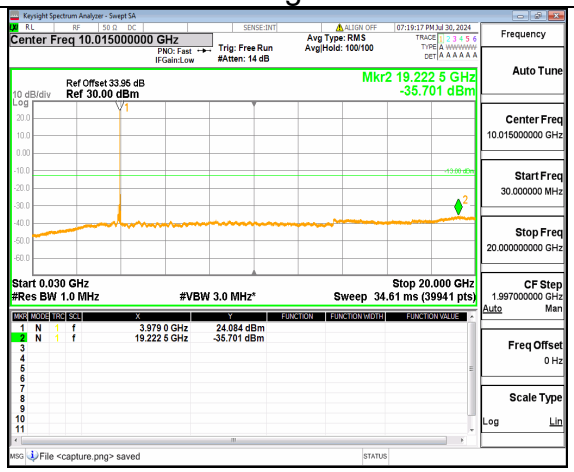
n77(3700-3980MHz) (30MHz-20GHz)
90M DFT-s-OFDM QPSK
Inner_1RB_Right Mid

n77(3700-3980MHz) (20GHz-40GHz)
90M DFT-s-OFDM QPSK
Inner_1RB_Right Mid

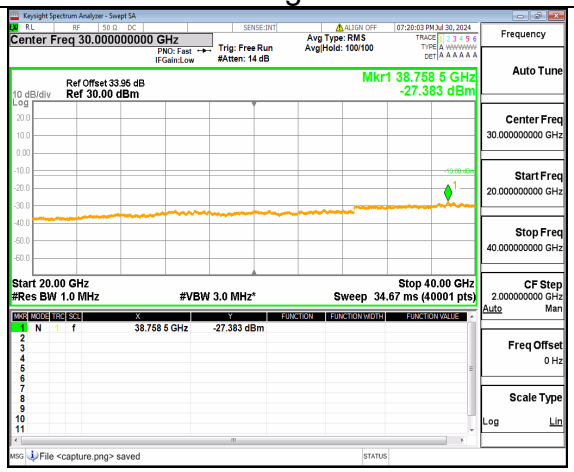


n77(3700-3980MHz) (30MHz-20GHz)
90M DFT-s-OFDM BPSK Inner_1RB_Left High

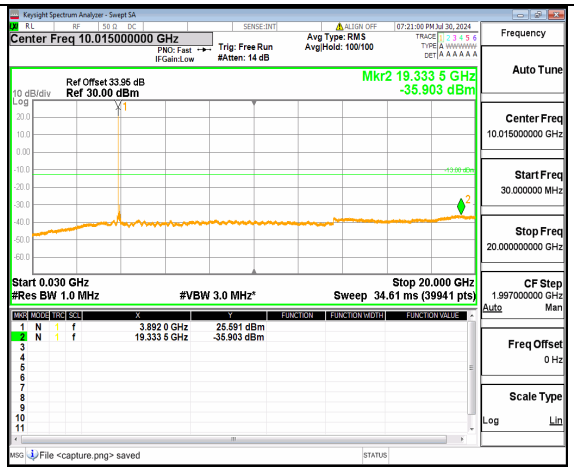
n77(3700-3980MHz) (20GHz-40GHz)
90M DFT-s-OFDM BPSK Inner_1RB_Left High



n77(3700-3980MHz) (30MHz-20GHz)
90M DFT-s-OFDM BPSK
Inner_1RB_Right High

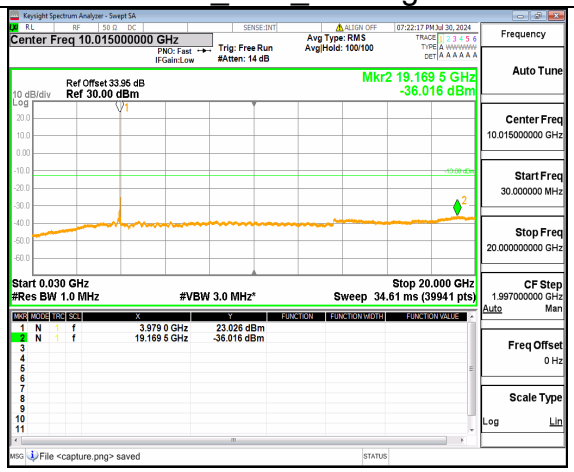


n77(3700-3980MHz) (20GHz-40GHz)
90M DFT-s-OFDM BPSK
Inner_1RB_Right High

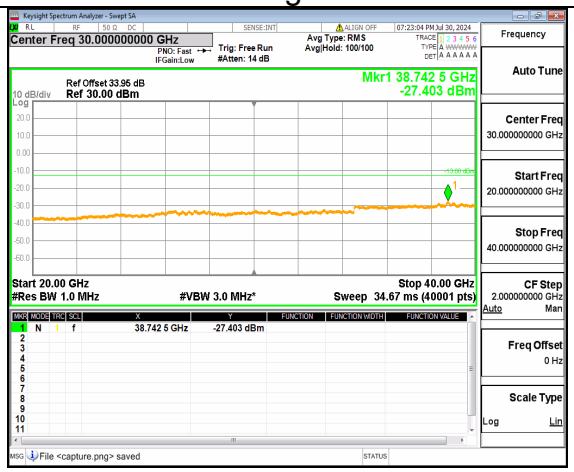


n77(3700-3980MHz) (30MHz-20GHz)
90M DFT-s-OFDM QPSK
Inner_1RB_Left High

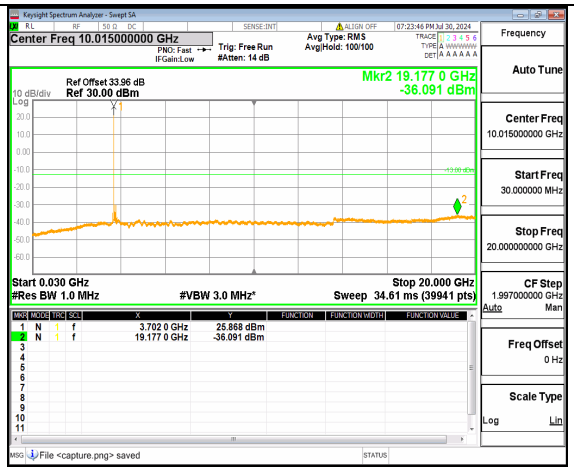
n77(3700-3980MHz) (20GHz-40GHz)
90M DFT-s-OFDM QPSK Inner_1RB_Left
High



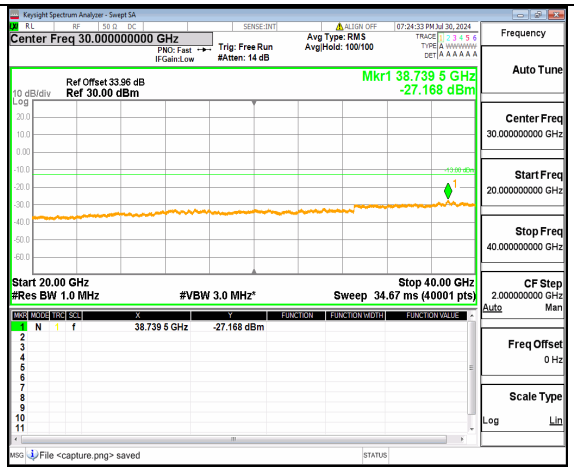
n77(3700-3980MHz) (30MHz-20GHz)
90M DFT-s-OFDM QPSK
Inner_1RB_Right High



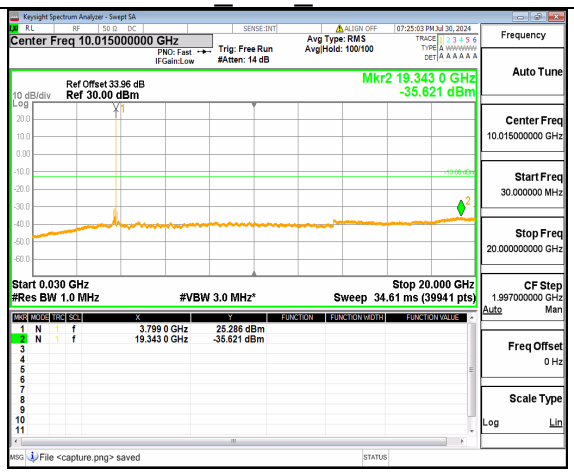
n77(3700-3980MHz) (20GHz-40GHz)
90M DFT-s-OFDM QPSK
Inner_1RB_Right High



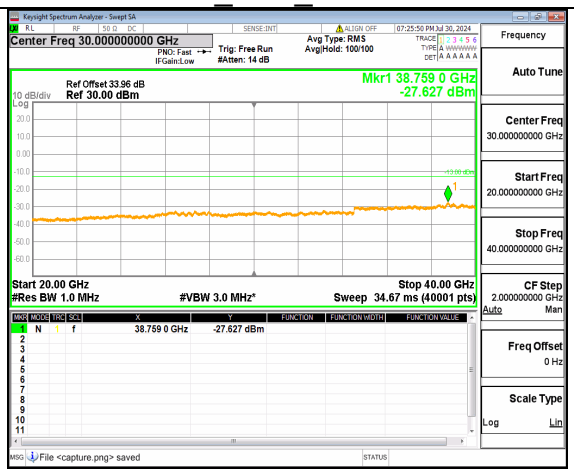
n77(3700-3980MHz) (30MHz-20GHz)
100M DFT-s-OFDM BPSK
Inner_1RB_Left Low



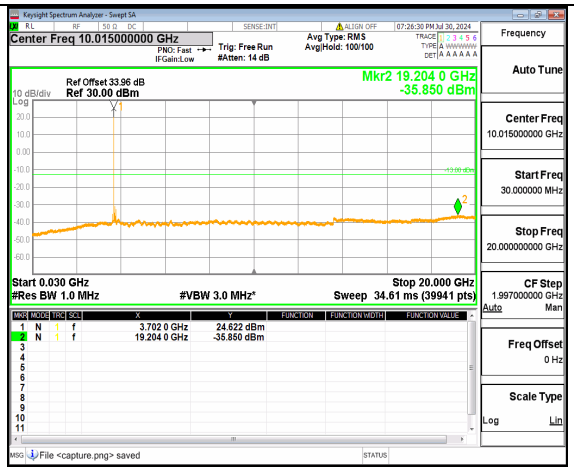
n77(3700-3980MHz) (20GHz-40GHz)
100M DFT-s-OFDM BPSK
Inner_1RB_Left Low



n77(3700-3980MHz) (30MHz-20GHz)
100M DFT-s-OFDM BPSK
Inner_1RB_Right Low

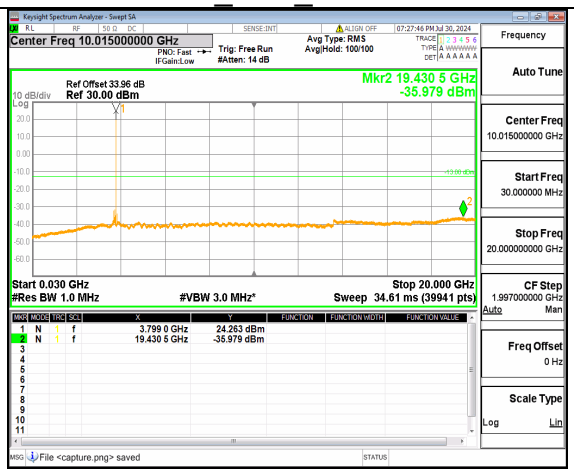


n77(3700-3980MHz) (20GHz-40GHz)
100M DFT-s-OFDM BPSK
Inner_1RB_Right Low

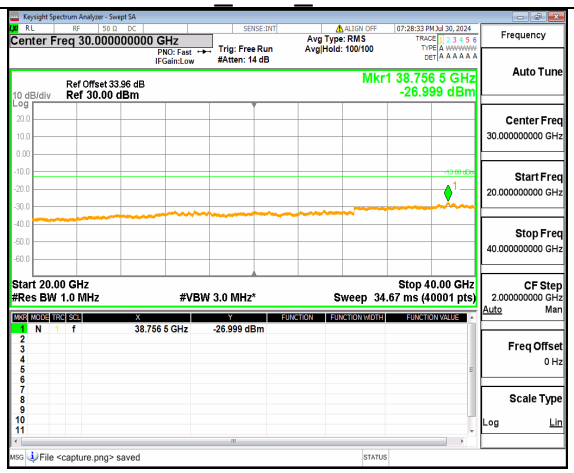


n77(3700-3980MHz) (30MHz-20GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Left Low

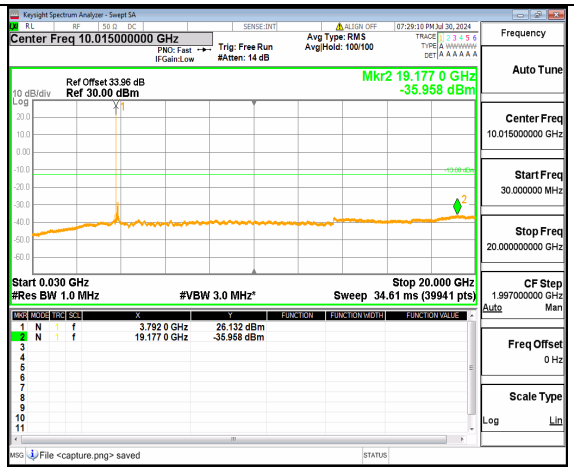
n77(3700-3980MHz) (20GHz-40GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Left Low



n77(3700-3980MHz) (30MHz-20GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Right Low

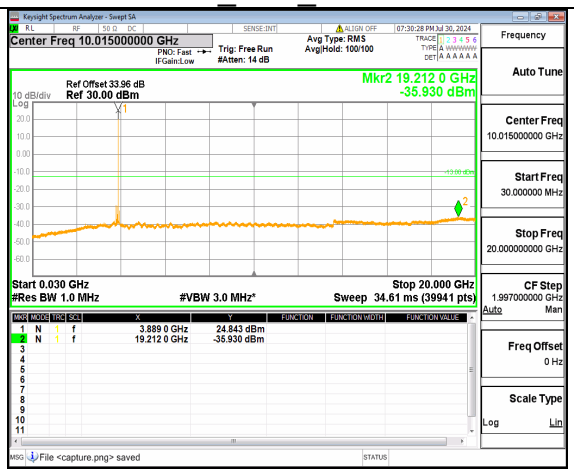


n77(3700-3980MHz) (20GHz-40GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Right Low

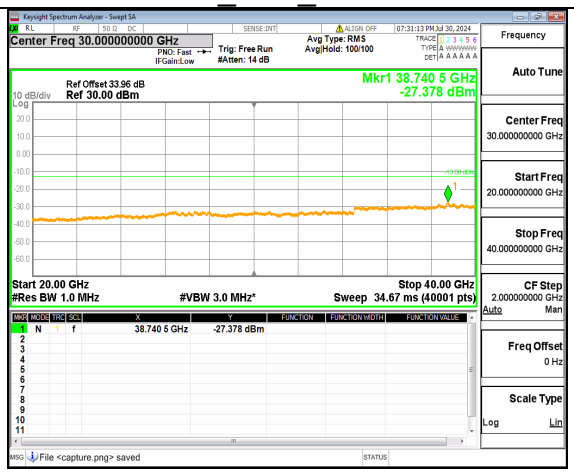


n77(3700-3980MHz) (30MHz-20GHz)
100M DFT-s-OFDM BPSK
Inner_1RB_Left Mid

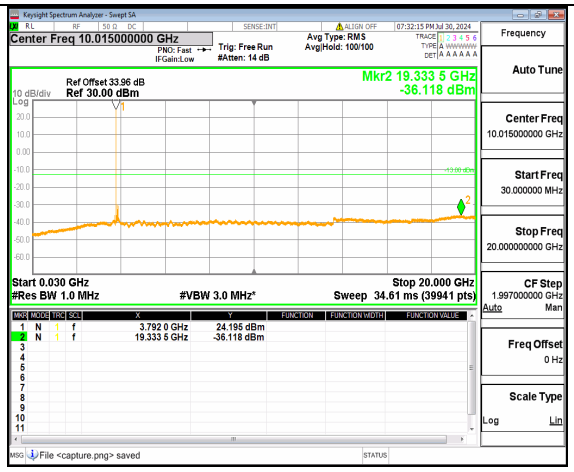
n77(3700-3980MHz) (20GHz-40GHz)
100M DFT-s-OFDM BPSK
Inner_1RB_Left Mid



n77(3700-3980MHz) (30MHz-20GHz)
100M DFT-s-OFDM BPSK
Inner_1RB_Right Mid

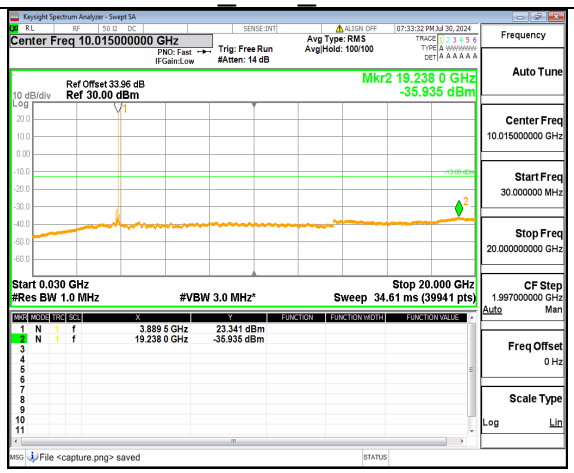


n77(3700-3980MHz) (20GHz-40GHz)
100M DFT-s-OFDM BPSK
Inner_1RB_Right Mid

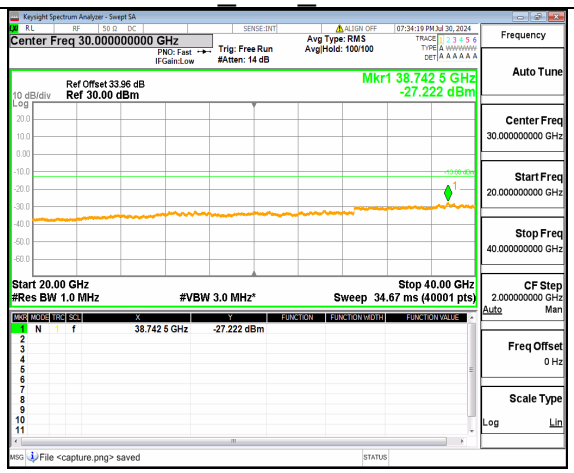


n77(3700-3980MHz) (30MHz-20GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Left Mid

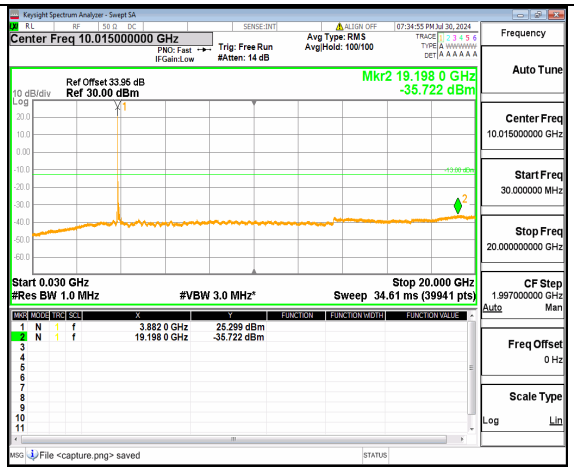
n77(3700-3980MHz) (20GHz-40GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Left Mid



n77(3700-3980MHz) (30MHz-20GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Right Mid

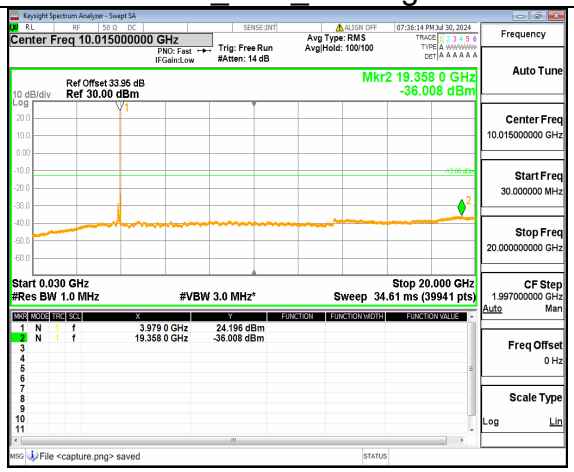


n77(3700-3980MHz) (20GHz-40GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Right Mid

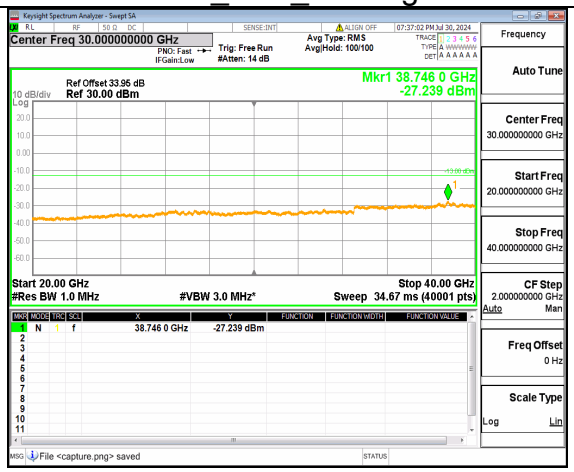


n77(3700-3980MHz) (30MHz-20GHz)
100M DFT-s-OFDM BPSK
Inner_1RB_Left High

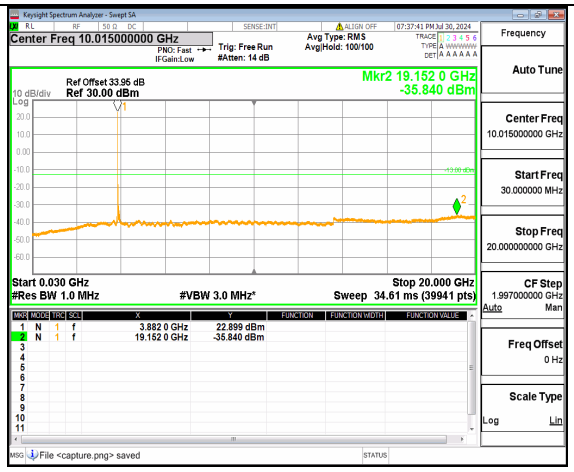
n77(3700-3980MHz) (20GHz-40GHz)
100M DFT-s-OFDM BPSK
Inner_1RB_Left High



n77(3700-3980MHz) (30MHz-20GHz)
100M DFT-s-OFDM BPSK
Inner_1RB_Right High

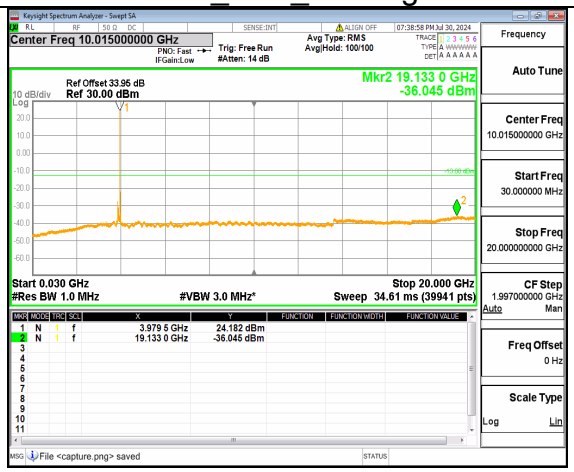


n77(3700-3980MHz) (20GHz-40GHz)
100M DFT-s-OFDM BPSK
Inner_1RB_Right High

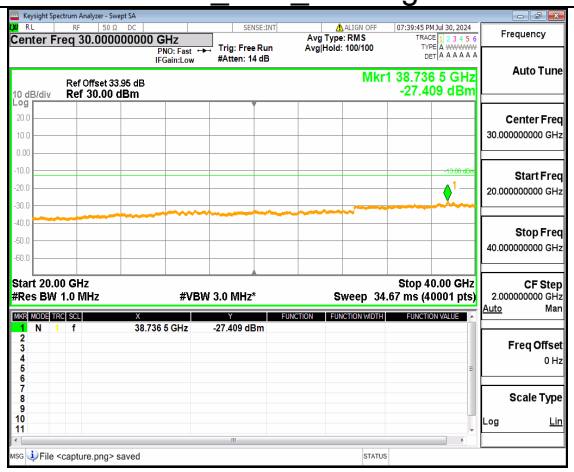


n77(3700-3980MHz) (30MHz-20GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Left High

n77(3700-3980MHz) (20GHz-40GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Left High



n77(3700-3980MHz) (30MHz-20GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Right High



n77(3700-3980MHz) (20GHz-40GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Right High

2.6. Band Edge

2.6.1. Requirement

n2,
According to FCC section 24.238(a), for operations in the 1850–1910MHz bands, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dBm a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

n5,
According to FCC section 22.917(a), for operations in the 824–849MHz bands, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dBm a 100kHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

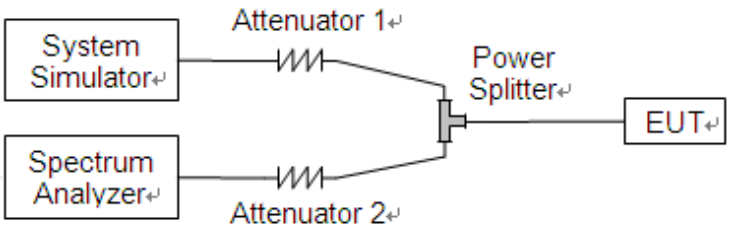
n66
According to FCC section 27.53(h),for operations in the 1710–1755MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10 log10(P) dBm 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

n77 (3700-3980MHz)
According to FCC section 27.53(l) (2) for, for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1-megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter

power.

n77 (3450-3550MHz)
According to FCC section 27.53(n) (2) for,for mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

2.6.2. Test Description



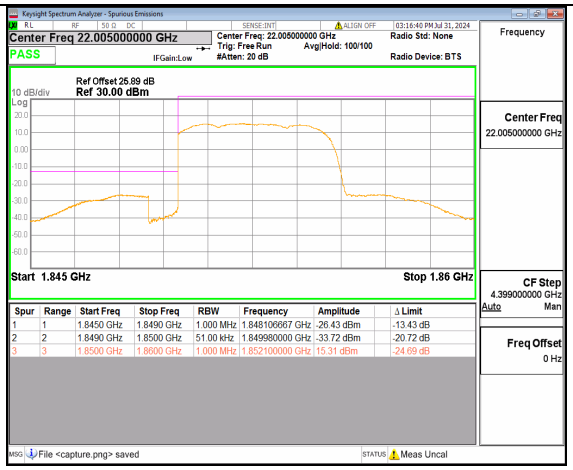
The EUTis coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.6.3. Test procedure

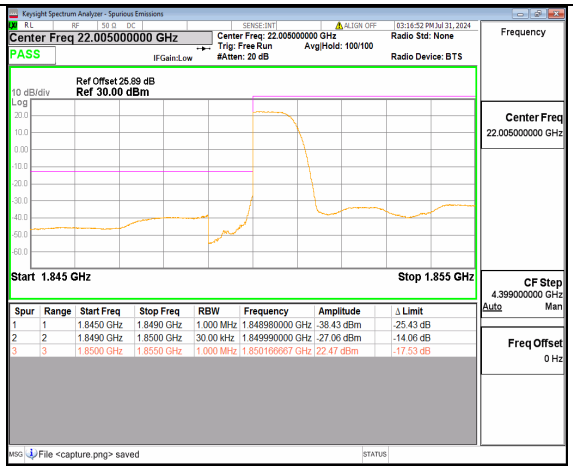
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.6.4. Test Result

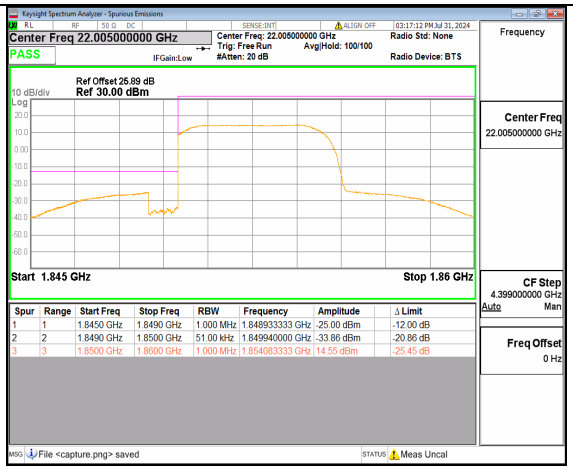
The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.



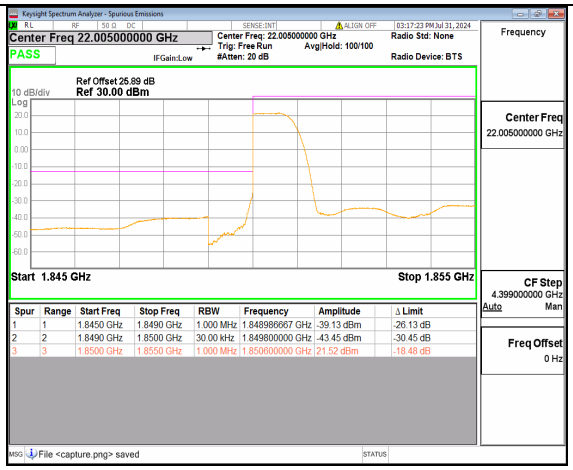
n2 5M DFT-s-OFDM BPSK Outer_Full Low



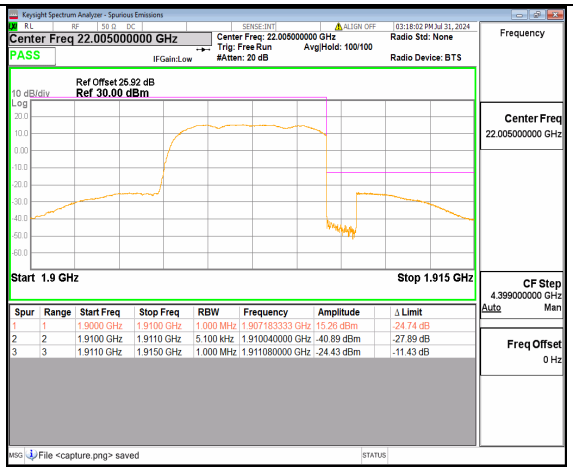
n2 5M DFT-s-OFDM BPSK Edge_1RB_Left Low



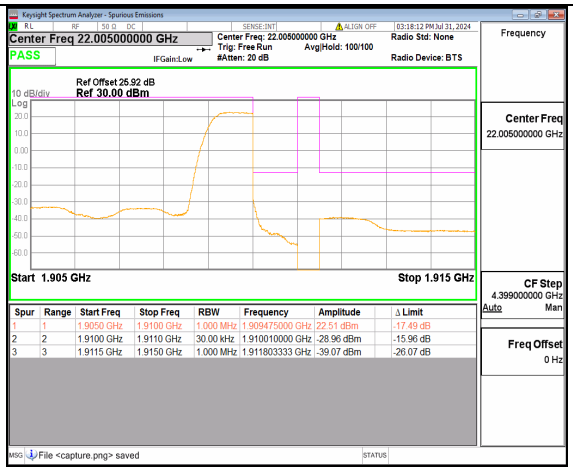
n2 5M DFT-s-OFDM QPSK Outer_Full Low



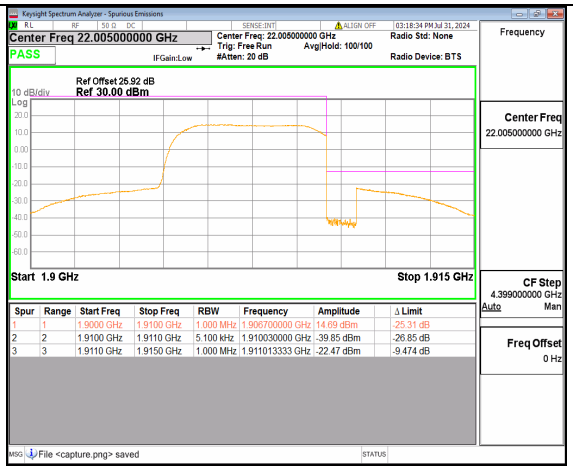
n2 5M DFT-s-OFDM QPSK Edge_1RB_Left Low



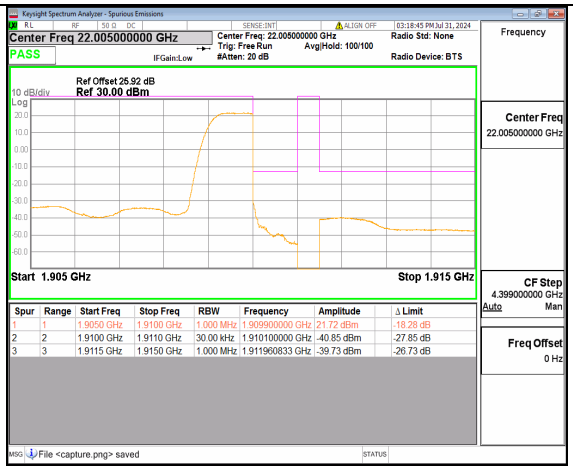
n2 5M DFT-s-OFDM BPSK Outer_Full High



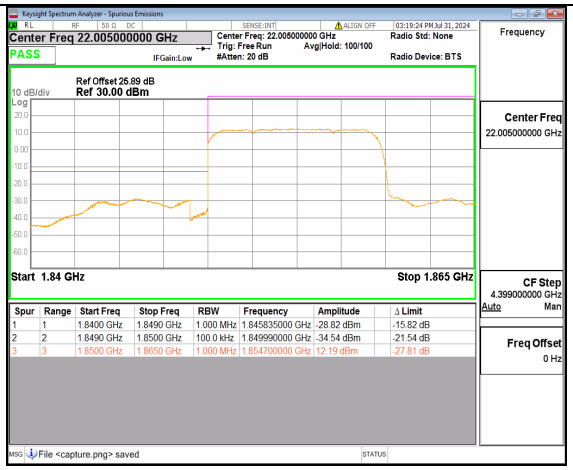
n2 5M DFT-s-OFDM BPSK Edge_1RB_Right High



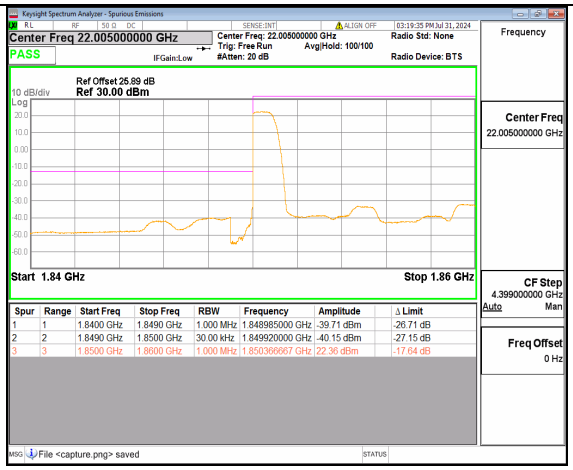
n2 5M DFT-s-OFDM QPSK Outer_Full High



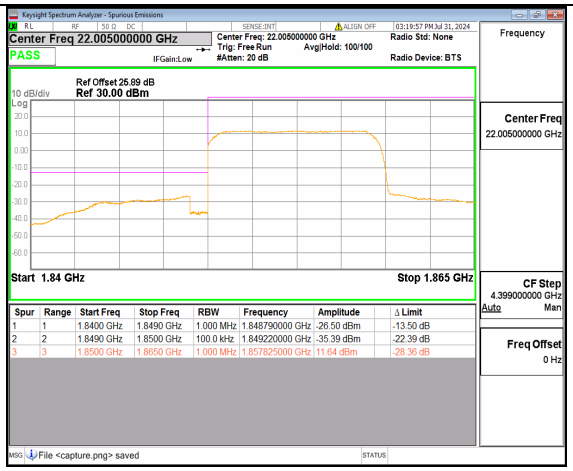
n2 5M DFT-s-OFDM QPSK Edge_1RB_Right High



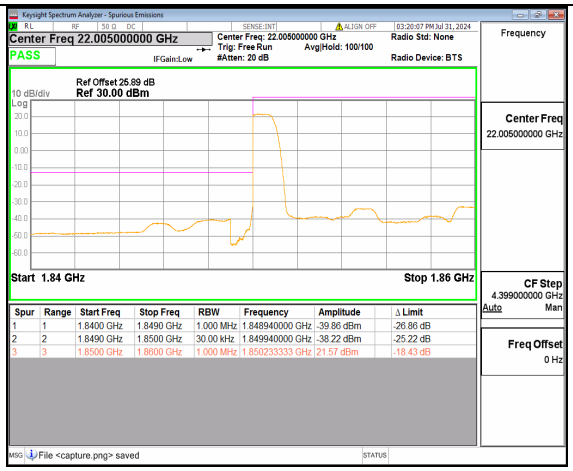
n2 10M DFT-s-OFDM BPSK Outer_Full Low



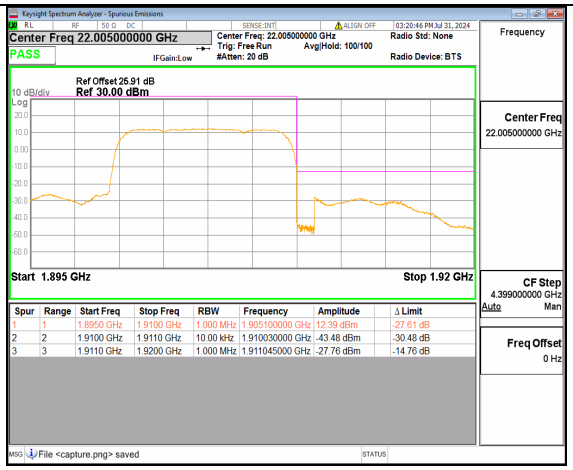
n2 10M DFT-s-OFDM BPSK Edge_1RB_Left Low



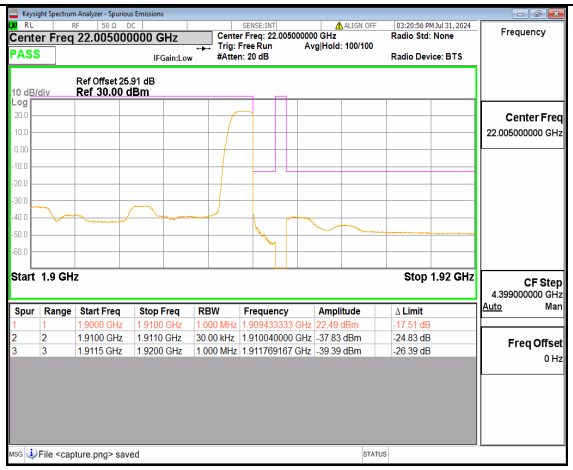
n2 10M DFT-s-OFDM QPSK Outer_Full Low



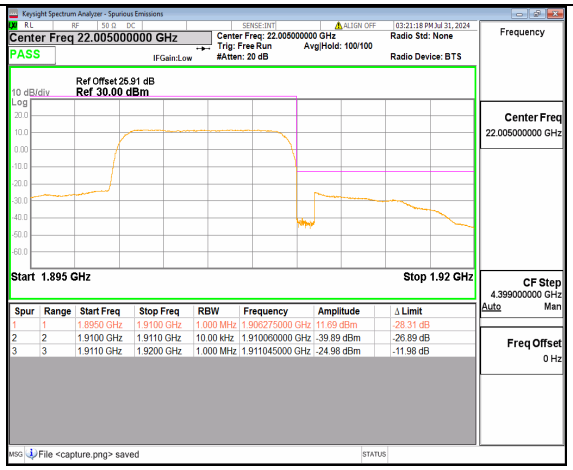
n2 10M DFT-s-OFDM QPSK Edge_1RB_Left Low



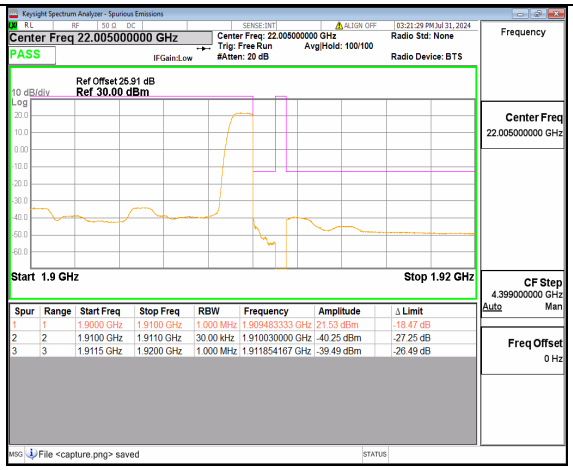
n2 10M DFT-s-OFDM BPSK Outer_Full High



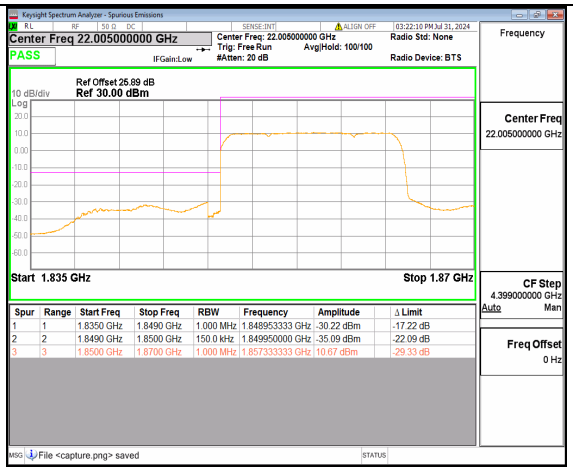
n2 10M DFT-s-OFDM BPSK Edge_1RB_Right High



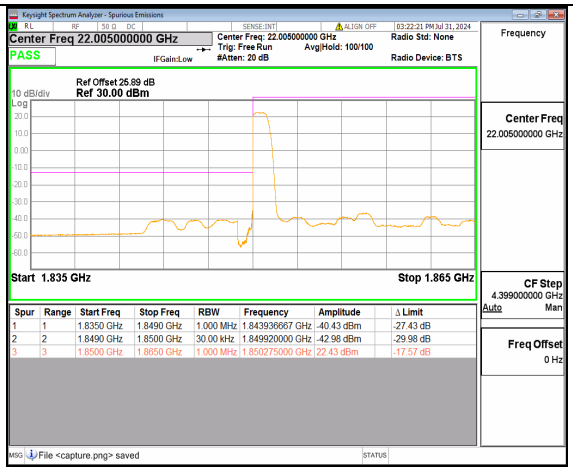
n2 10M DFT-s-OFDM QPSK Outer_Full High



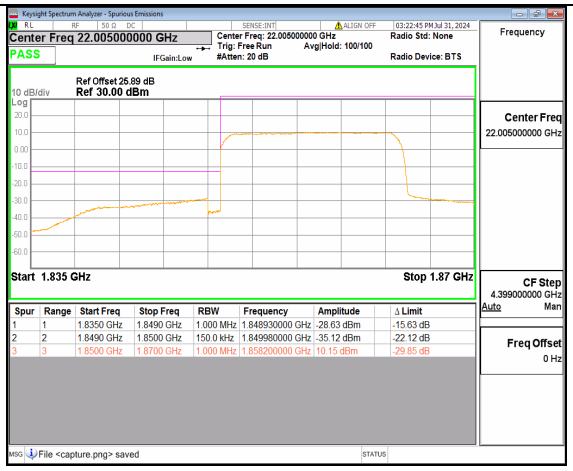
n2 10M DFT-s-OFDM QPSK Edge_1RB_Right High



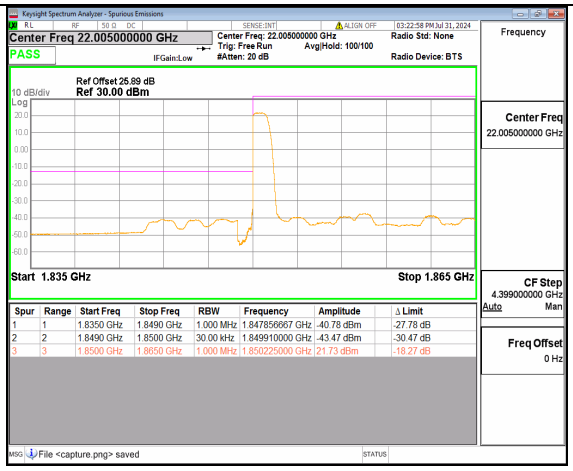
n2 15M DFT-s-OFDM BPSK Outer_Full Low



n2 15M DFT-s-OFDM BPSK Edge_1RB_Left Low



n2 15M DFT-s-OFDM QPSK Outer_Full Low



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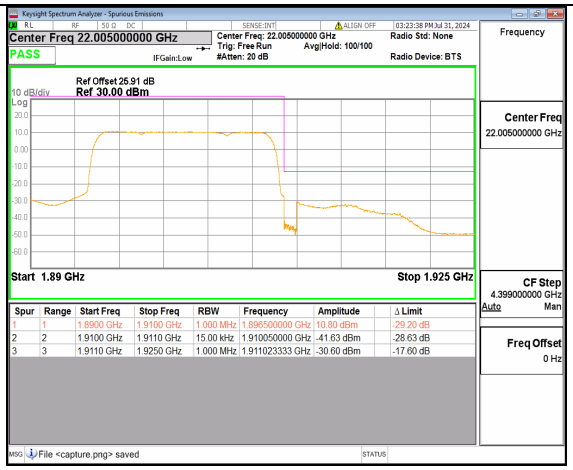
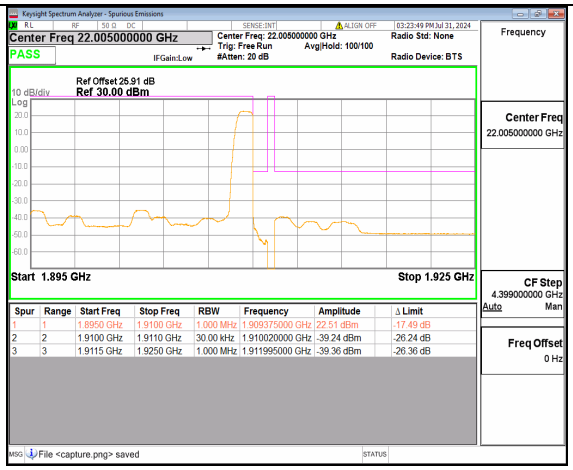


n2 15M DFT-s-OFDM BPSK Outer_Full High



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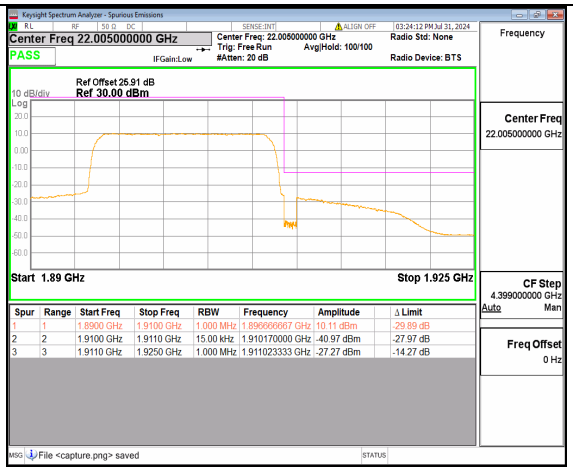

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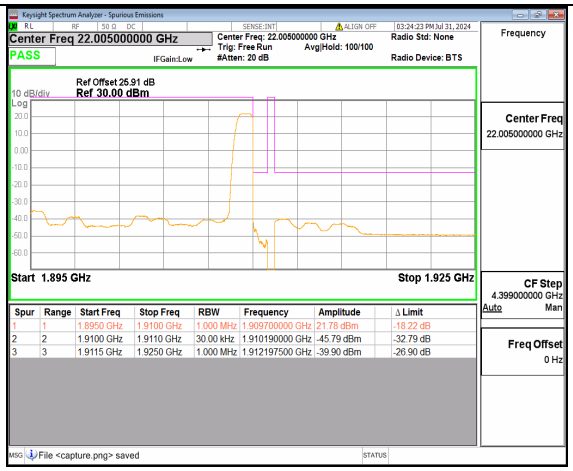

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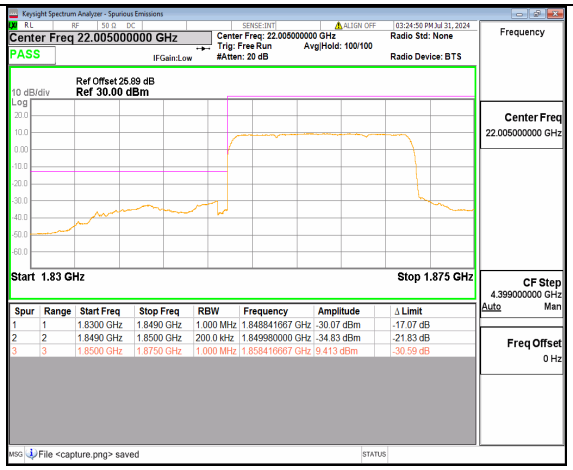
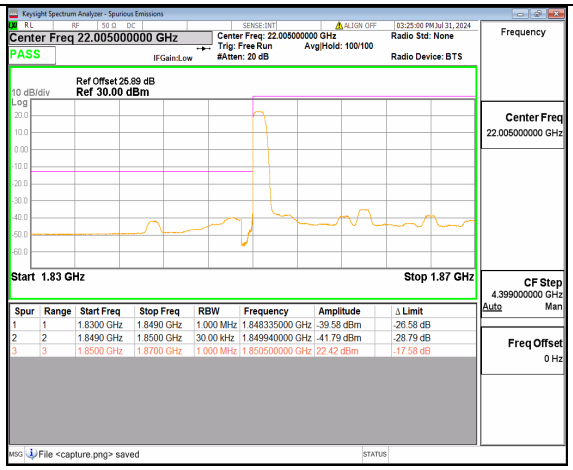
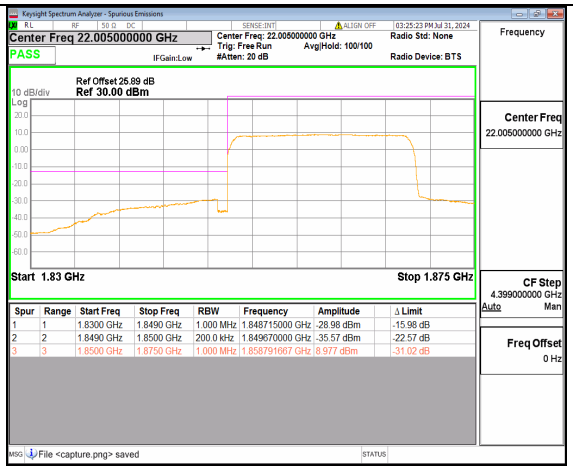


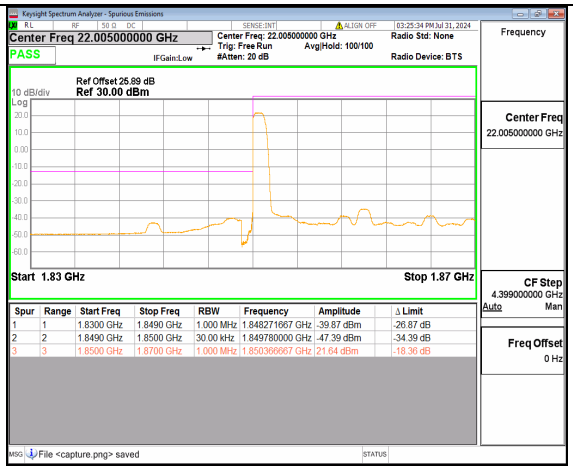
n2 20M DFT-s-OFDM BPSK Outer_Full Low



n2 20M DFT-s-OFDM BPSK Edge_1RB_Left Low



n2 20M DFT-s-OFDM QPSK Outer_Full Low



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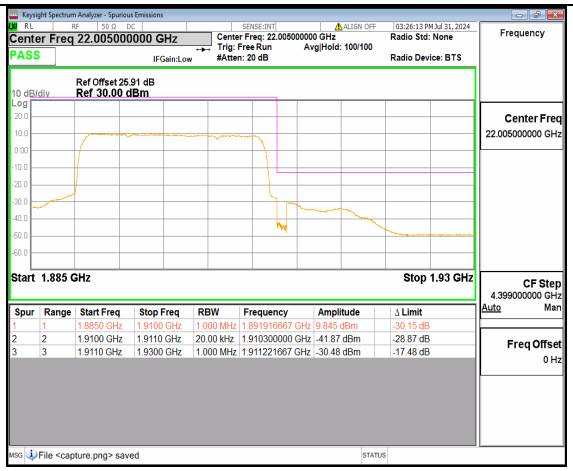

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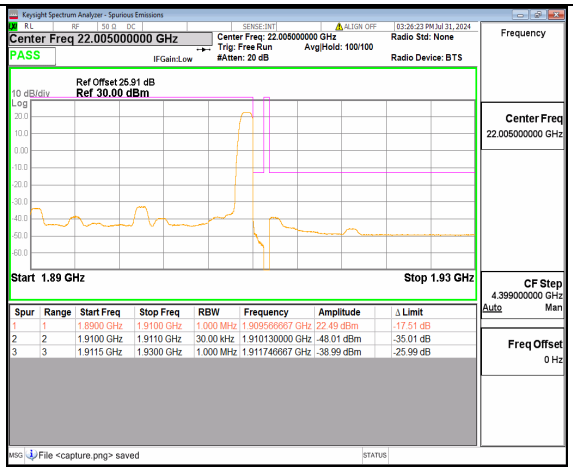

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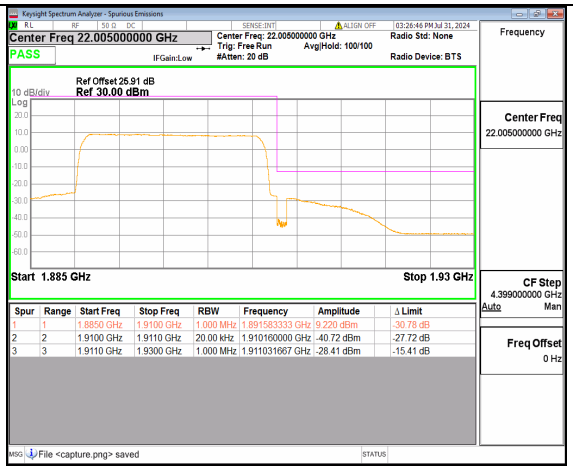
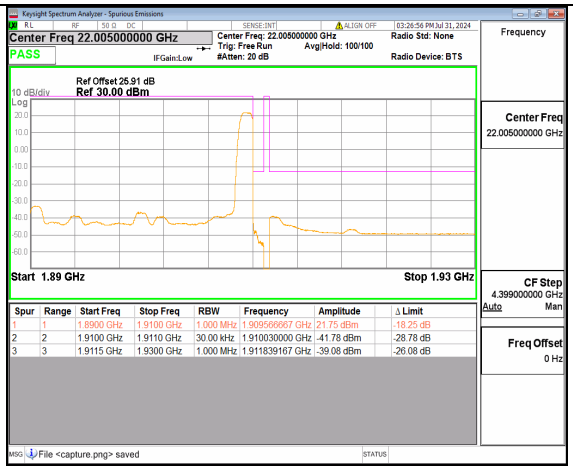


n2 20M DFT-s-OFDM QPSK Outer_Full High



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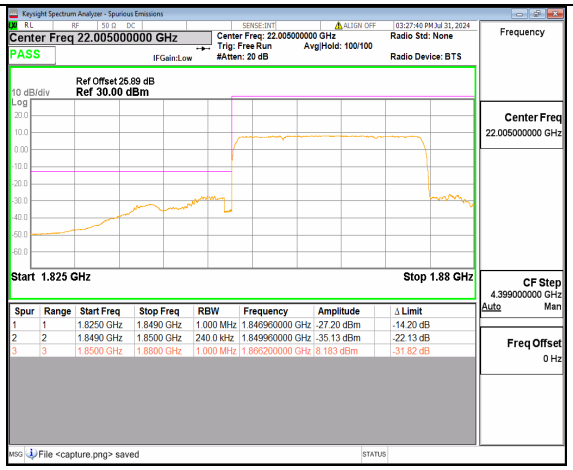
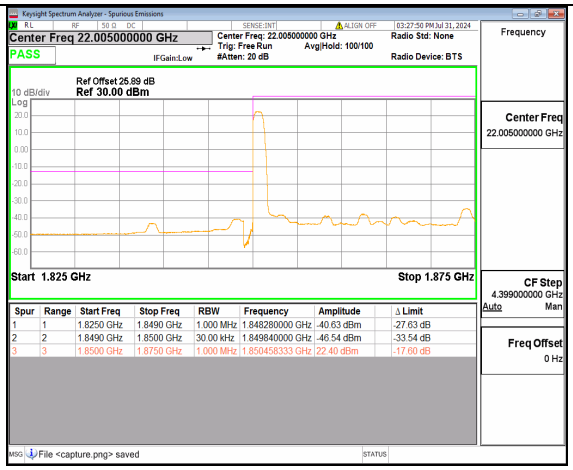
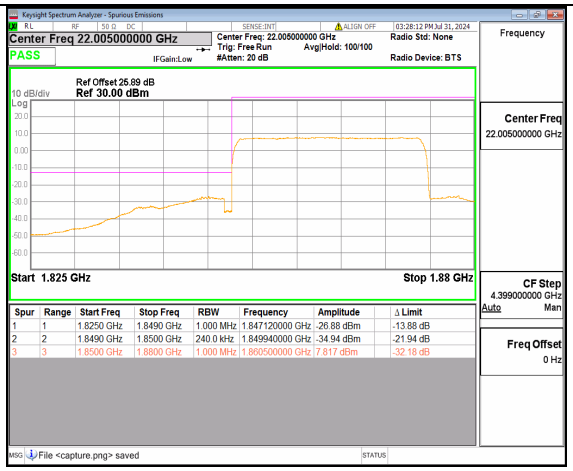


n2 25M DFT-s-OFDM BPSK Outer_Full Low



n2 25M DFT-s-OFDM BPSK Edge_1RB_Left Low



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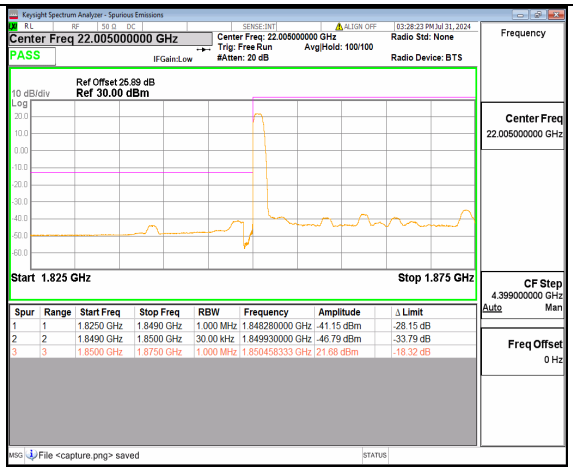
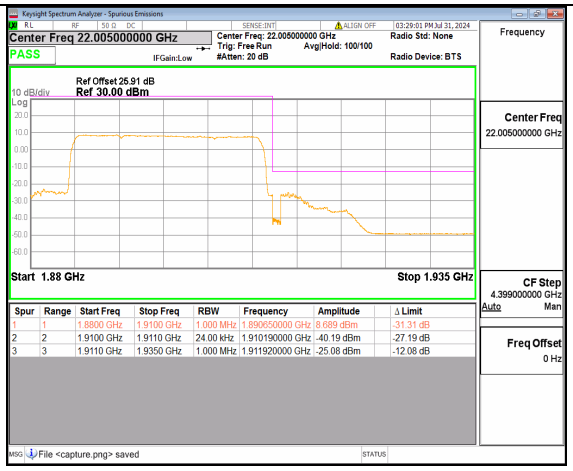
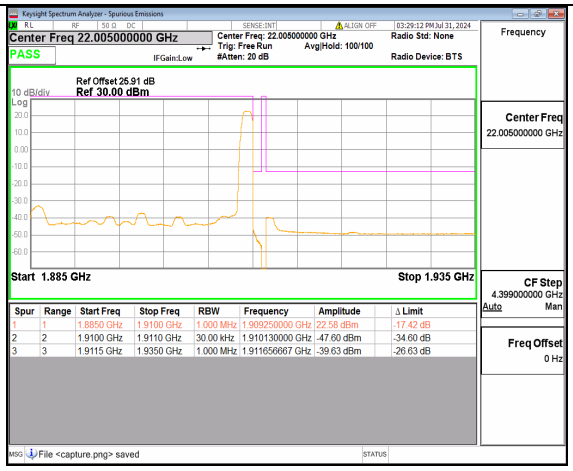


n2 25M DFT-s-OFDM QPSK Edge_1RB_Left Low



n2 25M DFT-s-OFDM BPSK Outer_Full High



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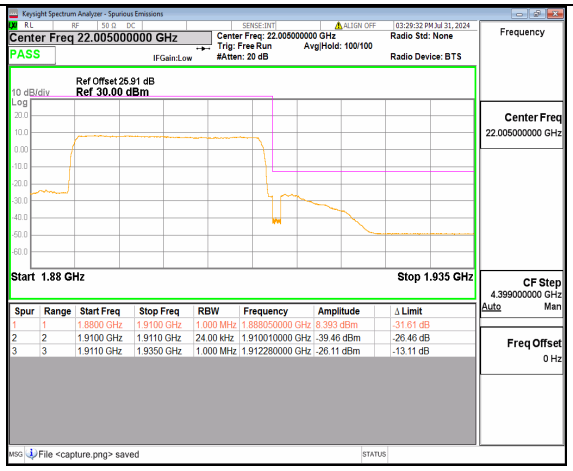
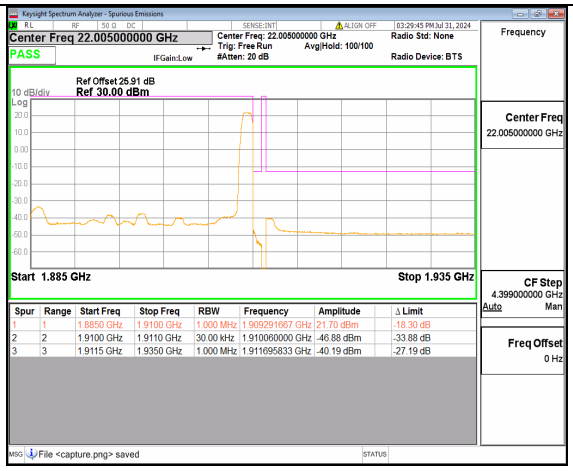


n2 25M DFT-s-OFDM QPSK Outer_Full High



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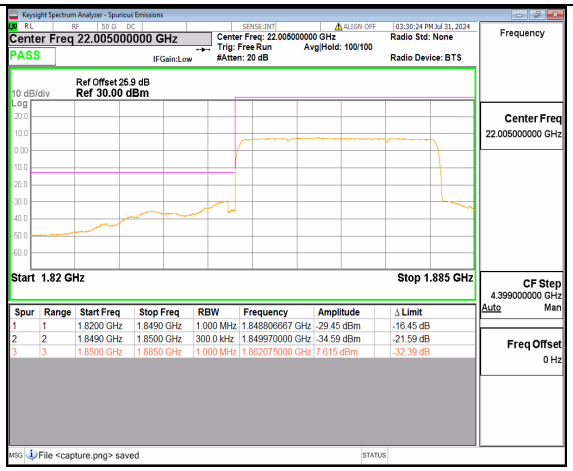
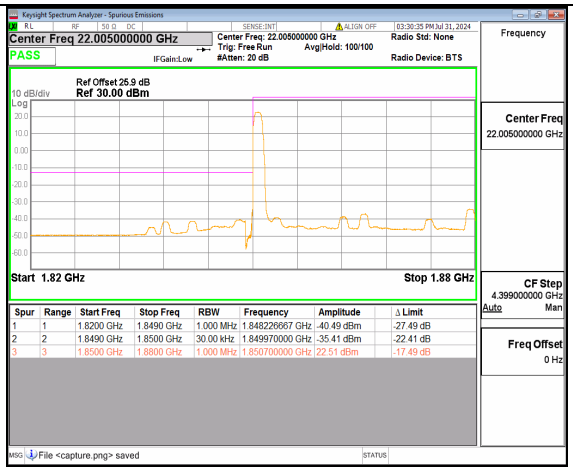
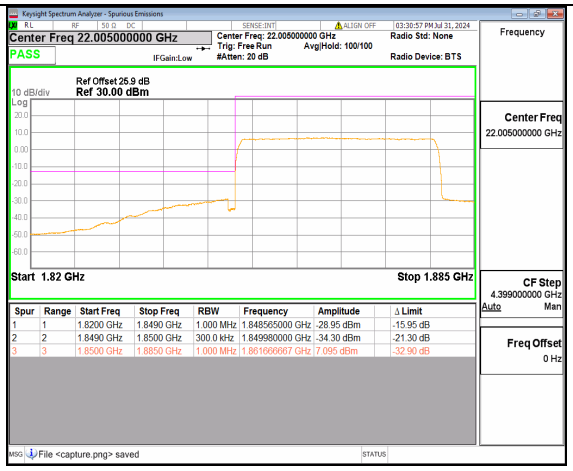


n2 30M DFT-s-OFDM BPSK Outer_Full Low



n2 30M DFT-s-OFDM BPSK Edge_1RB_Left Low



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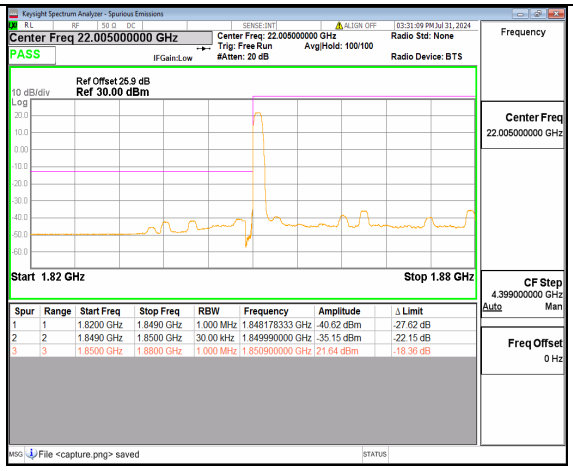

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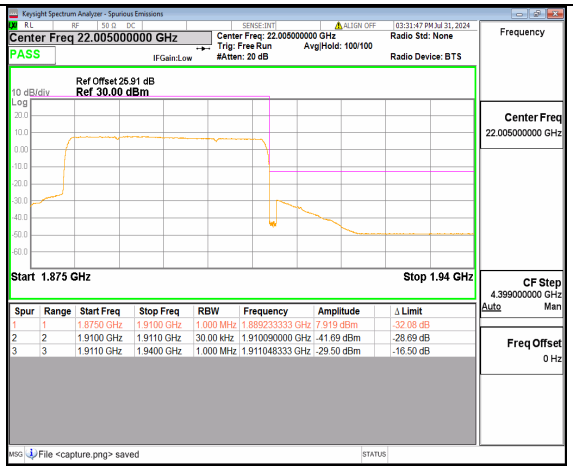

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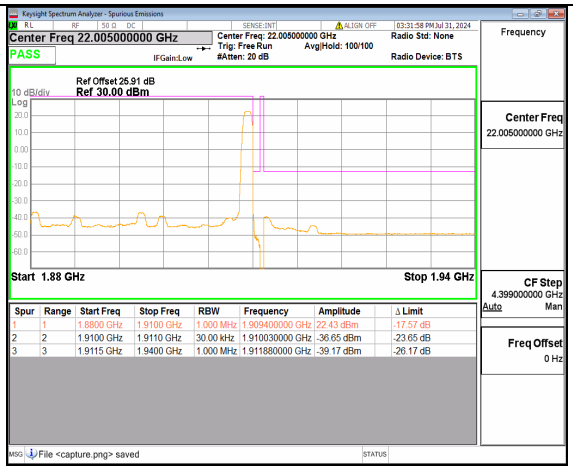

n2 30M DFT-s-OFDM BPSK Edge_1RB_Right High