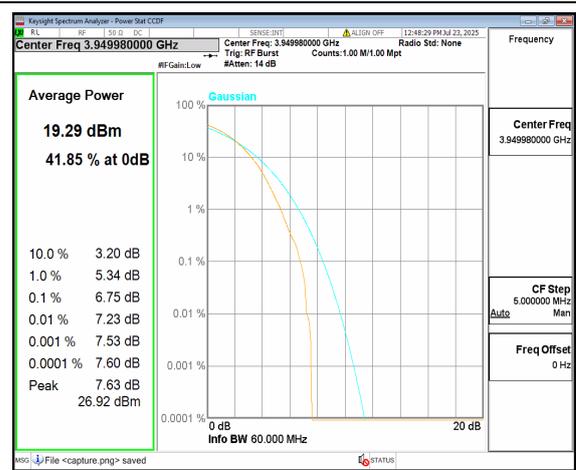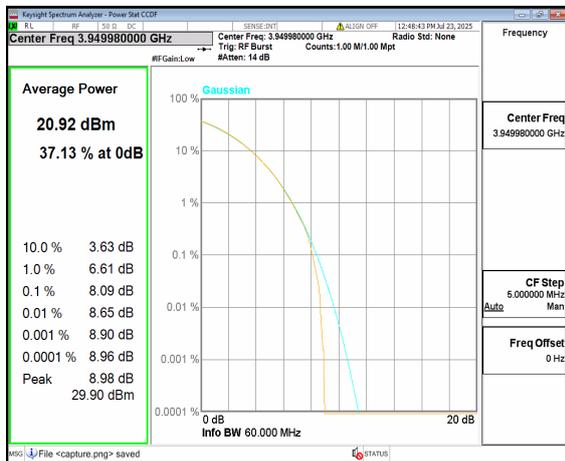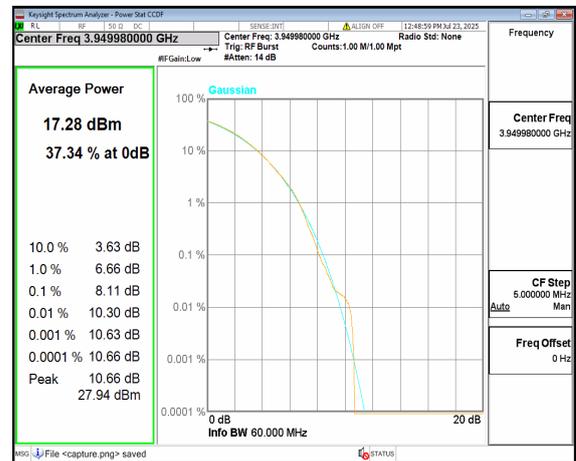n77(3700-3980MHz) 60M DFT-s-OFDM BPSK Outer_Full High
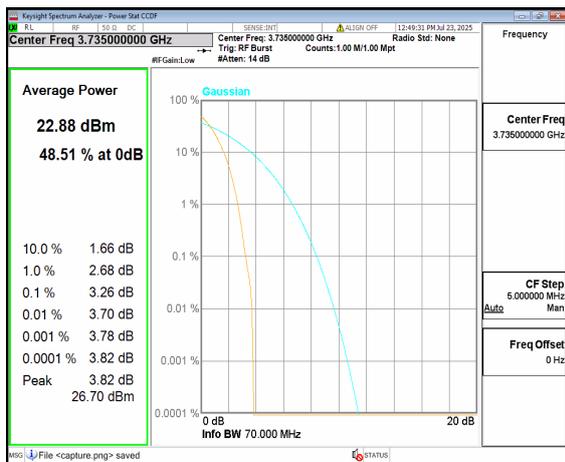

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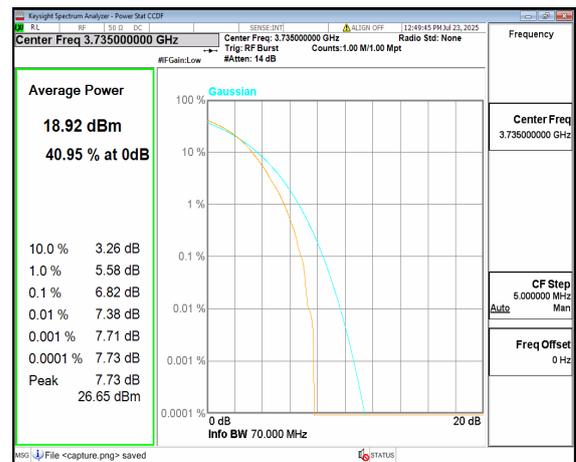

n77(3700-3980MHz) 60M CP-OFDM QPSK Outer_Full High

n77(3700-3980MHz) 60M CP-OFDM 256QAM Outer_Full High

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n77(3700-3980MHz) 70M DFT-s-OFDM 256QAM Outer_Full Low

n77(3700-3980MHz) 70M CP-OFDM QPSK Outer_Full Low

n77(3700-3980MHz) 70M CP-OFDM 256QAM Outer_Full Low

n77(3700-3980MHz) 70M DFT-s-OFDM BPSK Outer_Full Mid

n77(3700-3980MHz) 70M DFT-s-OFDM 256QAM Outer_Full Mid

n77(3700-3980MHz) 70M CP-OFDM QPSK Outer_Full Mid

n77(3700-3980MHz) 70M CP-OFDM 256QAM Outer_Full Mid

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n77(3700-3980MHz) 70M DFT-s-OFDM BPSK Outer_Full High

n77(3700-3980MHz) 70M DFT-s-OFDM 256QAM Outer_Full High

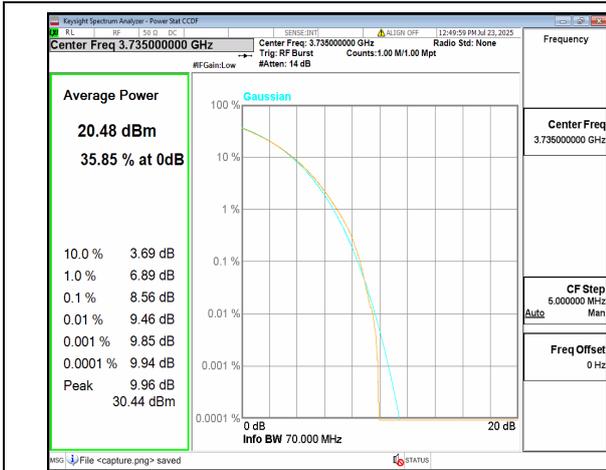n77(3700-3980MHz) 70M CP-OFDM QPSK Outer_Full High

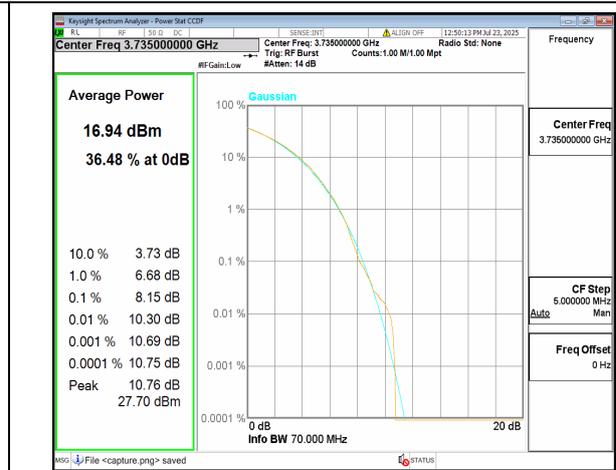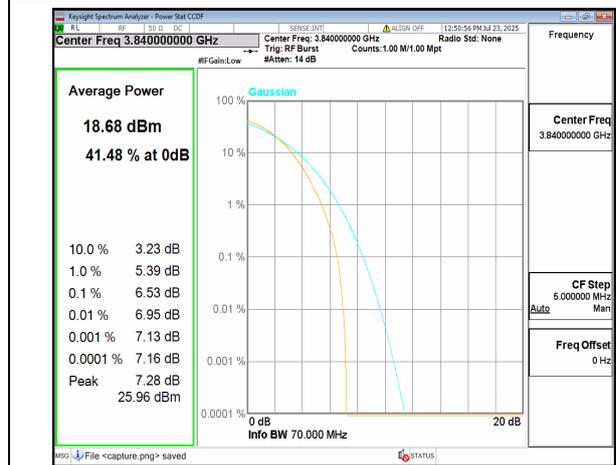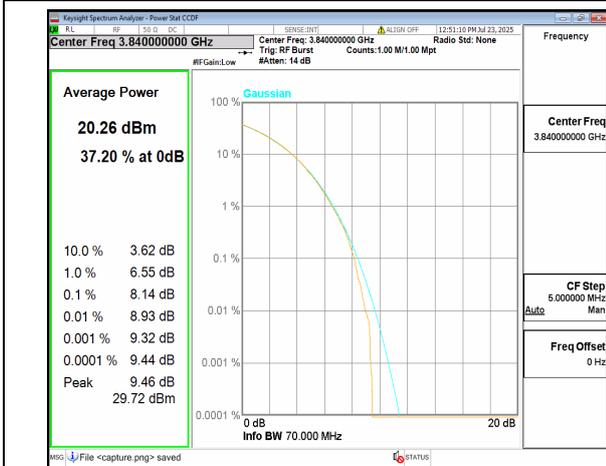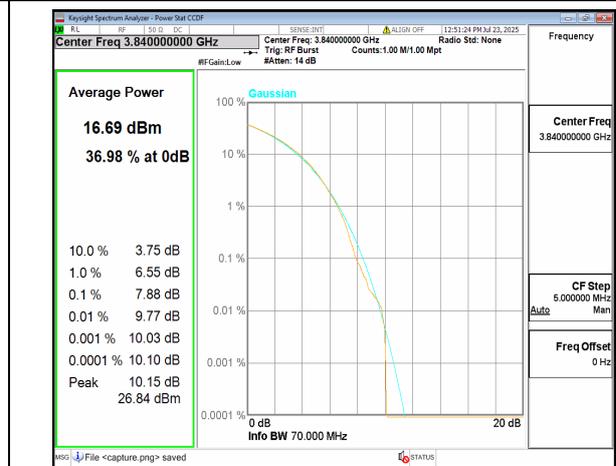n77(3700-3980MHz) 70M CP-OFDM 256QAM Outer_Full High

n77(3700-3980MHz) 80M DFT-s-OFDM BPSK Outer_Full Low

n77(3700-3980MHz) 80M DFT-s-OFDM 256QAM Outer_Full Low

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n77(3700-3980MHz) 80M CP-OFDM QPSK Outer_Full Low

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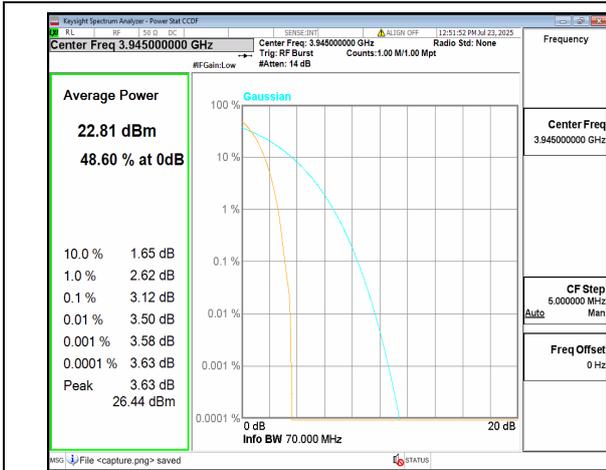

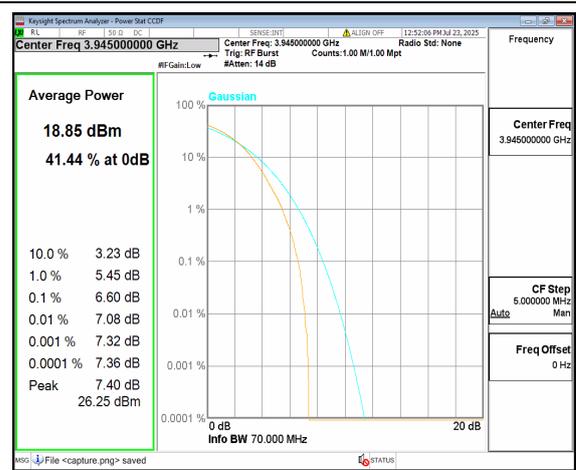n77(3700-3980MHz) 80M DFT-s-OFDM 256QAM Outer_Full Mid

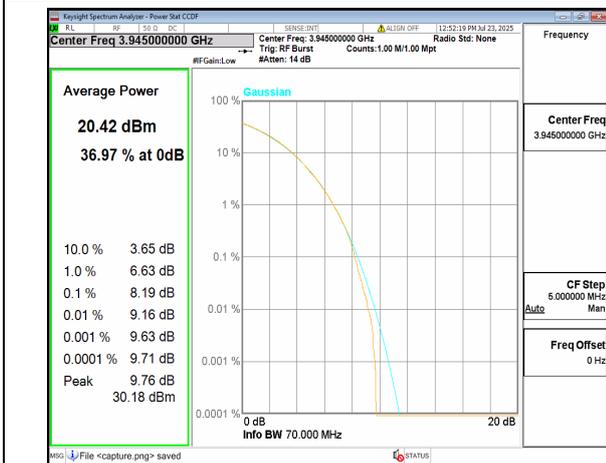n77(3700-3980MHz) 80M CP-OFDM QPSK Outer_Full Mid

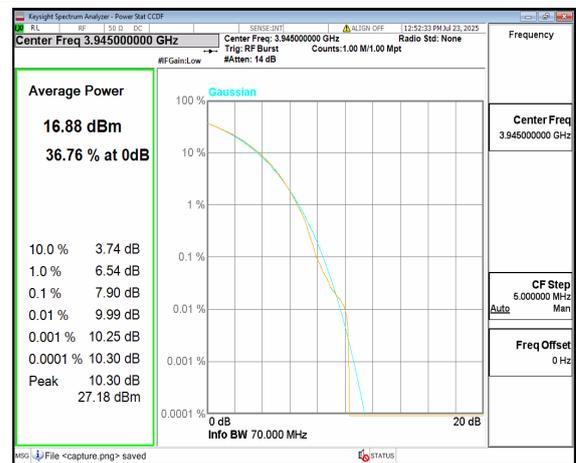n77(3700-3980MHz) 80M CP-OFDM 256QAM Outer_Full Mid

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n77(3700-3980MHz) 80M DFT-s-OFDM BPSK Outer_Full High

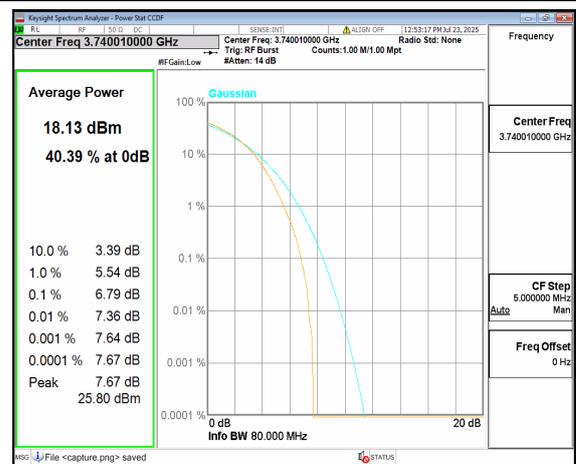n77(3700-3980MHz) 80M DFT-s-OFDM 256QAM Outer_Full High

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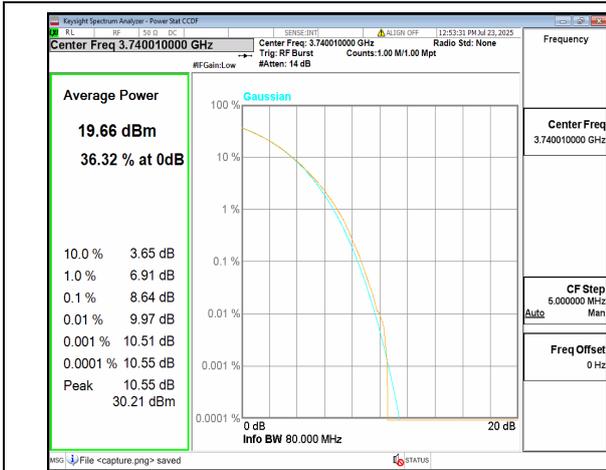

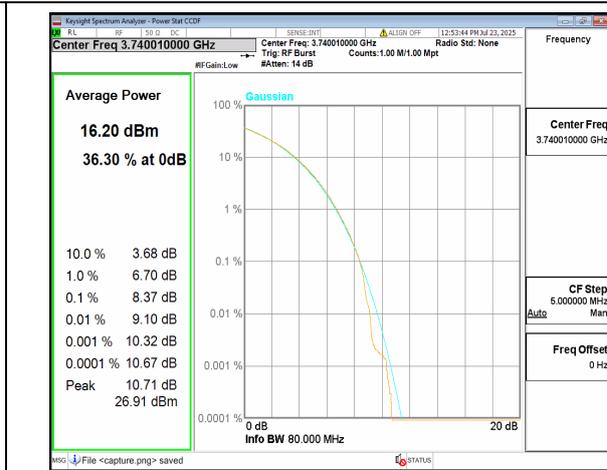n77(3700-3980MHz) 80M CP-OFDM 256QAM Outer_Full High

n77(3700-3980MHz) 90M DFT-s-OFDM BPSK Outer_Full Low

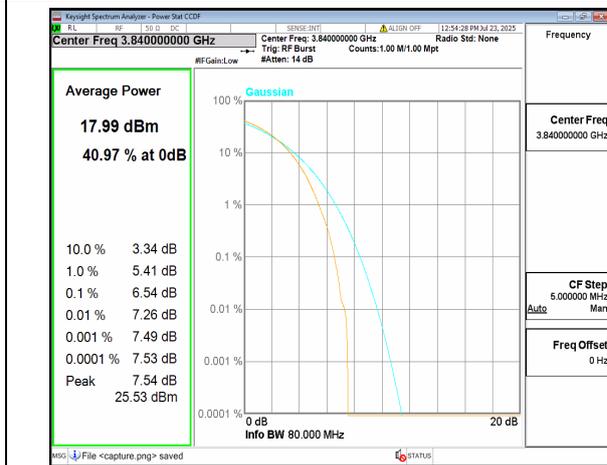n77(3700-3980MHz) 90M DFT-s-OFDM 256QAM Outer_Full Low

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n77(3700-3980MHz) 90M CP-OFDM QPSK Outer_Full Low

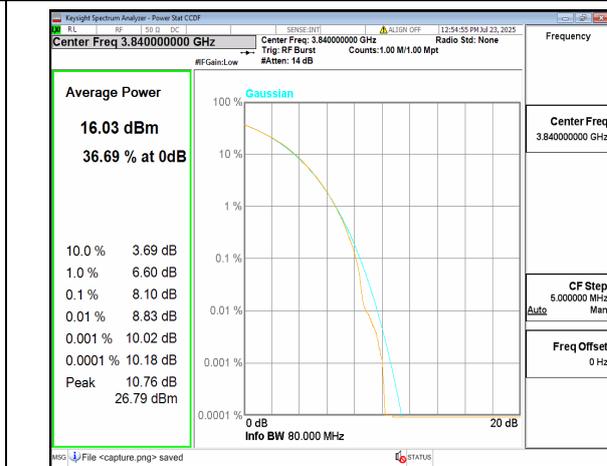n77(3700-3980MHz) 90M CP-OFDM 256QAM Outer_Full Low

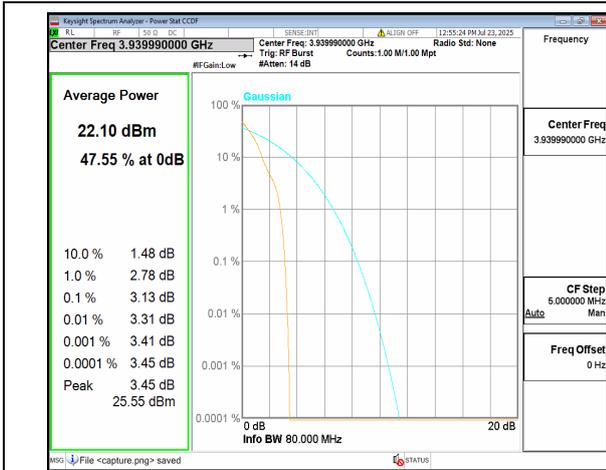n77(3700-3980MHz) 90M DFT-s-OFDM BPSK Outer_Full Mid

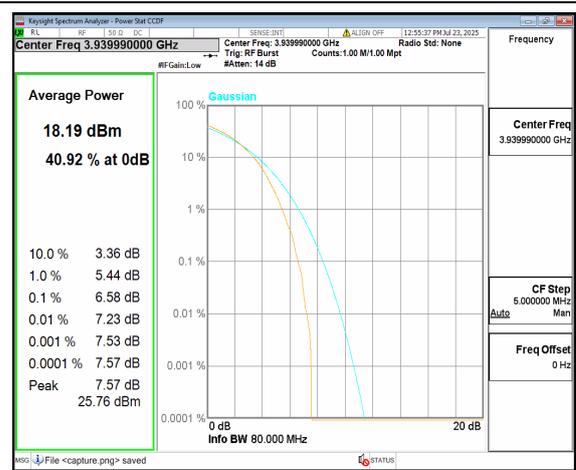

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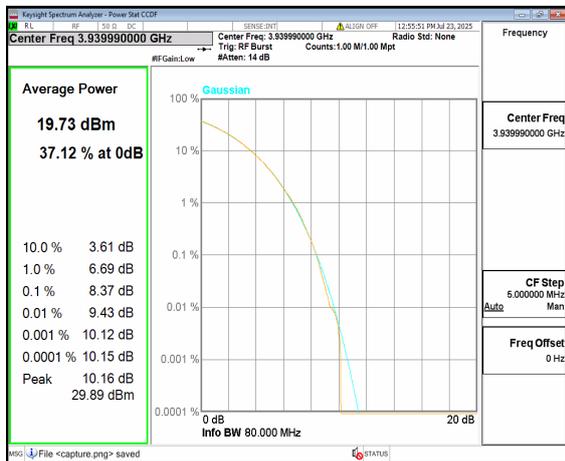n77(3700-3980MHz) 90M CP-OFDM QPSK Outer_Full Mid

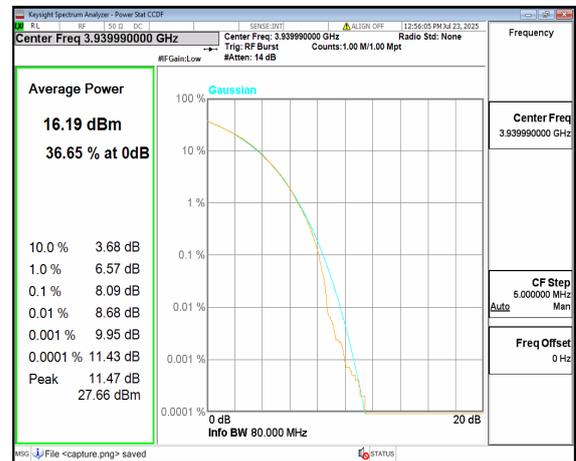n77(3700-3980MHz) 90M CP-OFDM 256QAM Outer_Full Mid

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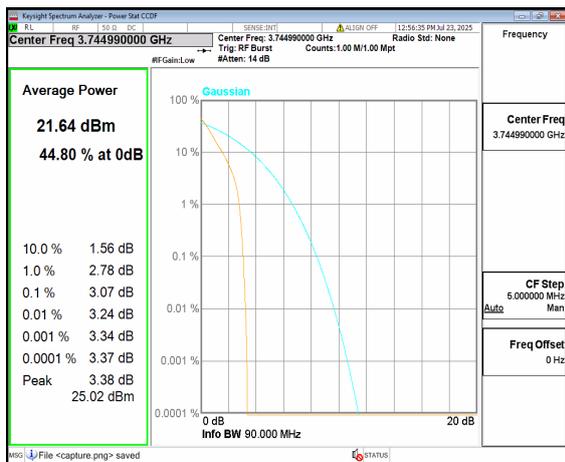n77(3700-3980MHz) 90M DFT-s-OFDM BPSK Outer_Full High

n77(3700-3980MHz) 90M DFT-s-OFDM 256QAM Outer_Full High
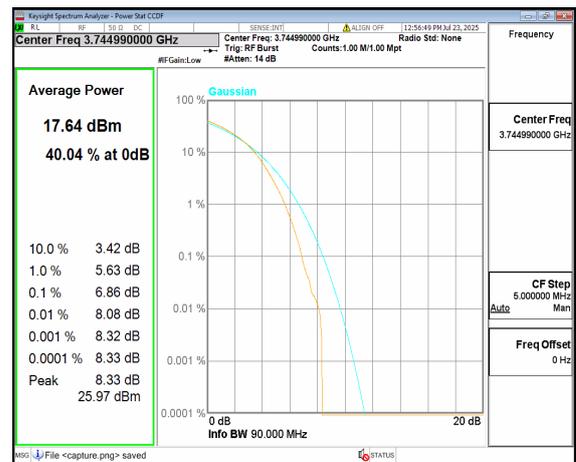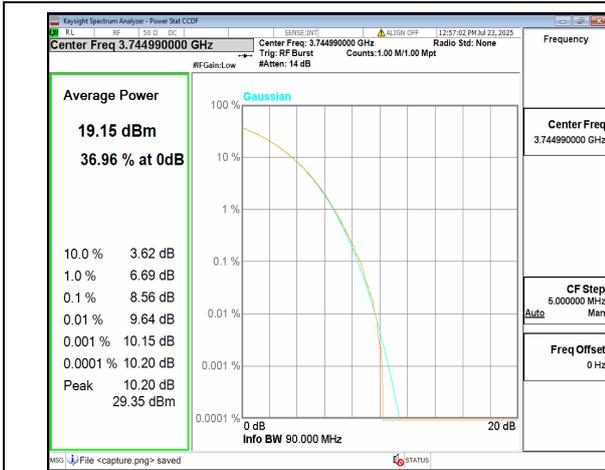

n77(3700-3980MHz) 90M CP-OFDM QPSK Outer_Full High

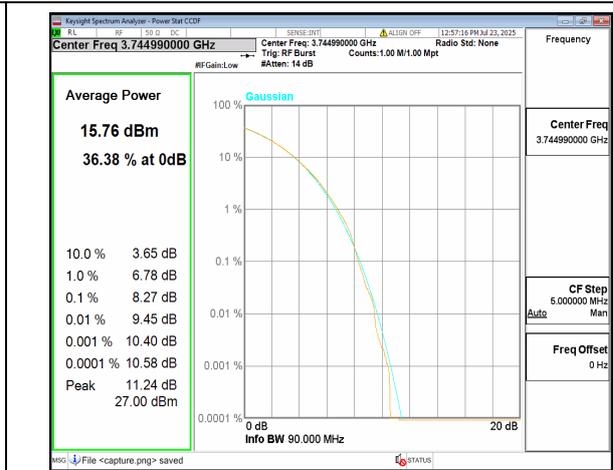n77(3700-3980MHz) 90M CP-OFDM 256QAM Outer_Full High

n77(3700-3980MHz) 100M DFT-s-OFDM BPSK Outer_Full Low

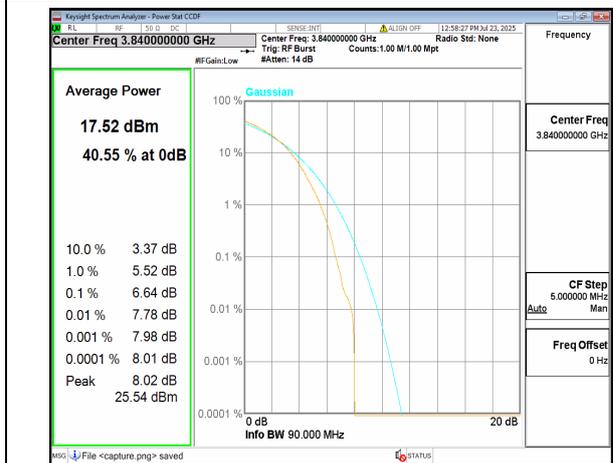n77(3700-3980MHz) 100M DFT-s-OFDM 256QAM Outer_Full Low

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n77(3700-3980MHz) 100M CP-OFDM QPSK Outer_Full Low

n77(3700-3980MHz) 100M CP-OFDM 256QAM Outer_Full Low
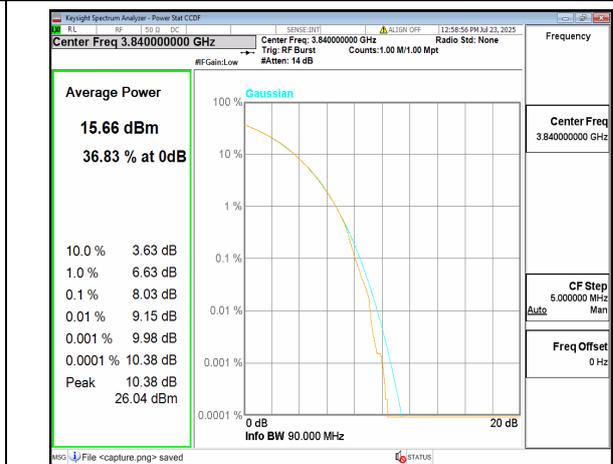

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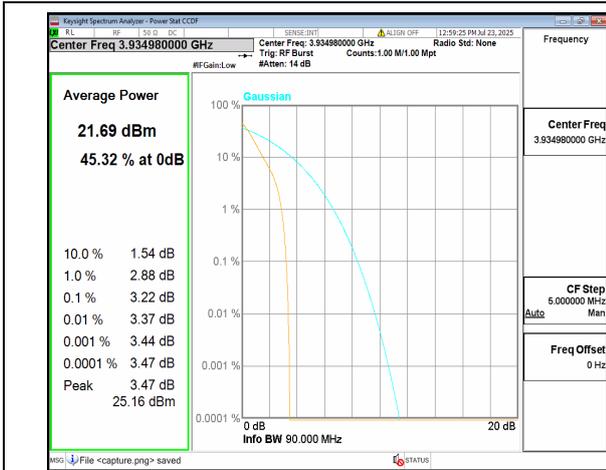

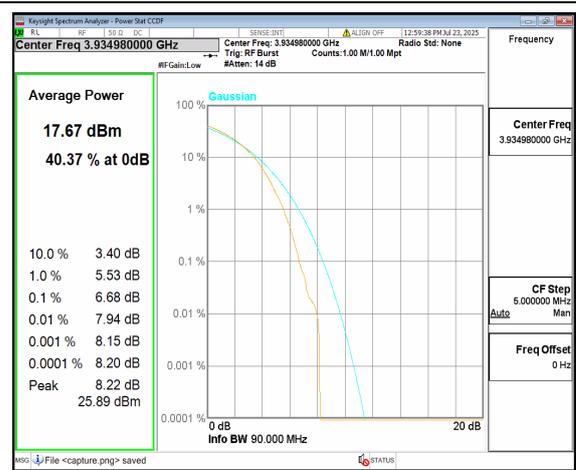n77(3700-3980MHz) 100M DFT-s-OFDM 256QAM Outer_Full Mid

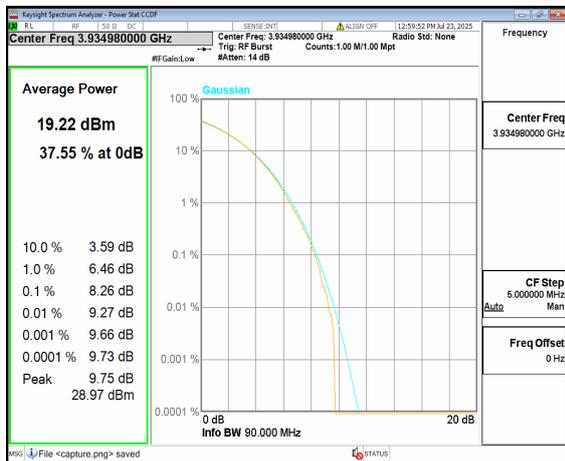n77(3700-3980MHz) 100M CP-OFDM QPSK Outer_Full Mid

n77(3700-3980MHz) 100M CP-OFDM 256QAM Outer_Full Mid

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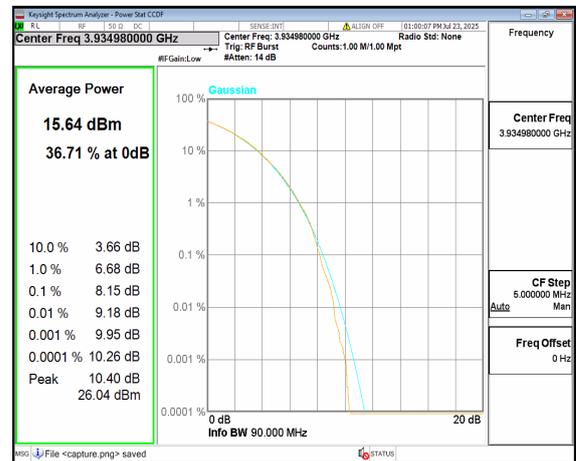
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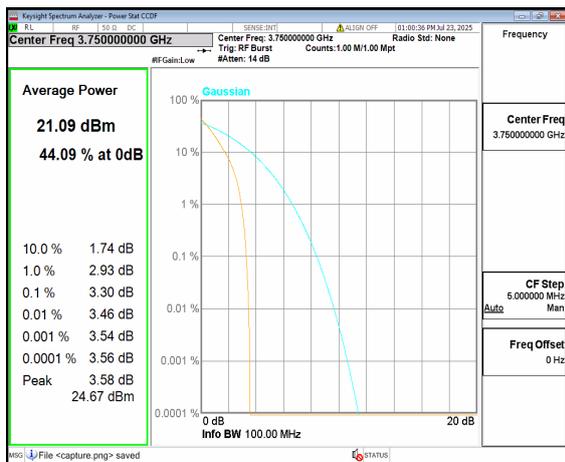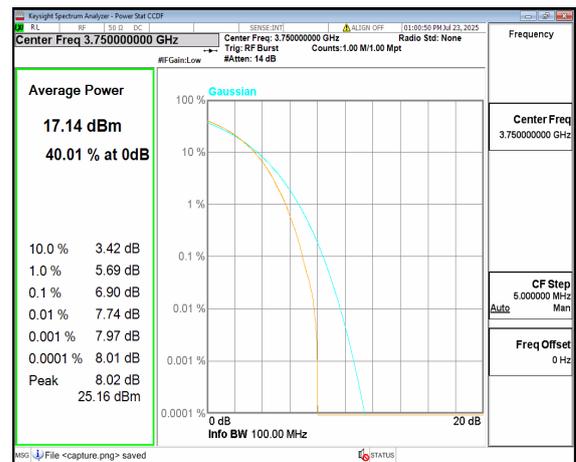n77(3700-3980MHz) 100M DFT-s-OFDM BPSK Outer_Full High

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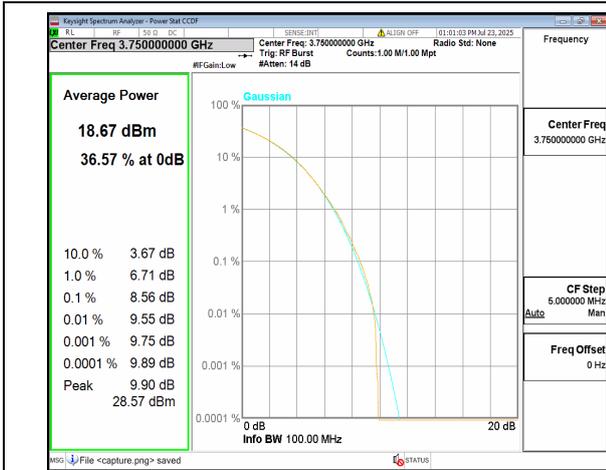

n77(3700-3980MHz) 100M CP-OFDM QPSK Outer_Full High

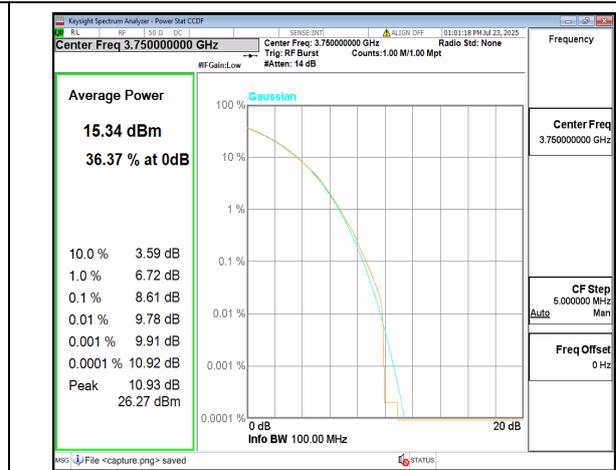

n77(3700-3980MHz) 100M CP-OFDM 256QAM Outer_Full High

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2.5. Conducted Spurious Emissions

2.5.1.Requirement

According to FCC section 2.1051, section 22.917(a), 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)dB. This calculated to be -13dBm.

According to FCC section 24.238(a) for n2, n25, 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 $43 + 10 \log(P)$ dB.

Additional to FCC section 22.917(a) for n5, n26, 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 $43 + 10 \log(P)$ dB. This calculated to be -13dBm.

According to FCC section 27.53(g) for n71, for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.
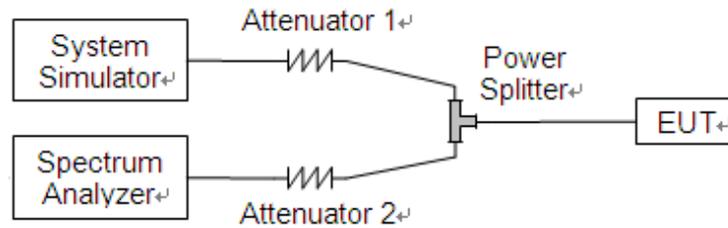
According to FCC section 27.53(m)(4) for n7, n38, n41, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

According to FCC section 27.53(h) for n66, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to FCC section 27.53(l)(2) for n77, n78, 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.

According to FCC section 27.53(n)(2) for n77, n78, 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.

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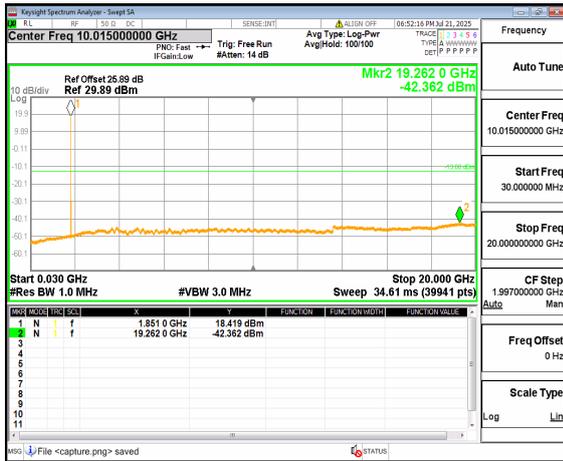Page **594** of **873**

2.5.2.Test Description

The EUT is 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.

2.5.3.Test procedure

KDB 971168 D01v03 Section 6.0, ANSI/TIA-603-E-2016 and ANSI C63.26-2015 Section 5.7.
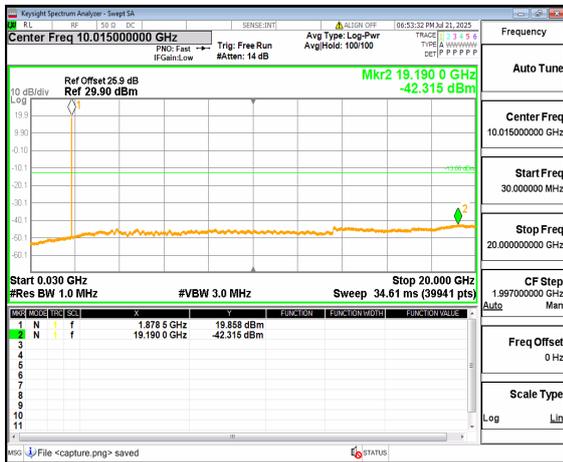
2.5.4.Test Result

Note: In the same NR frequency band, The measured power in SA mode is higher than that in NSA mode，SA mode is selected to test all test cases.
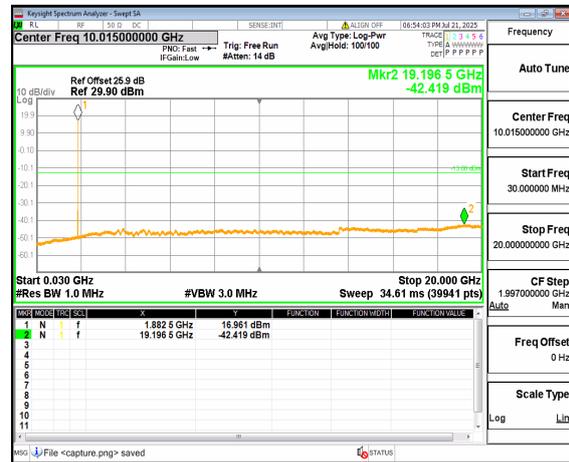
n2 (30MHz-20GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Left Low

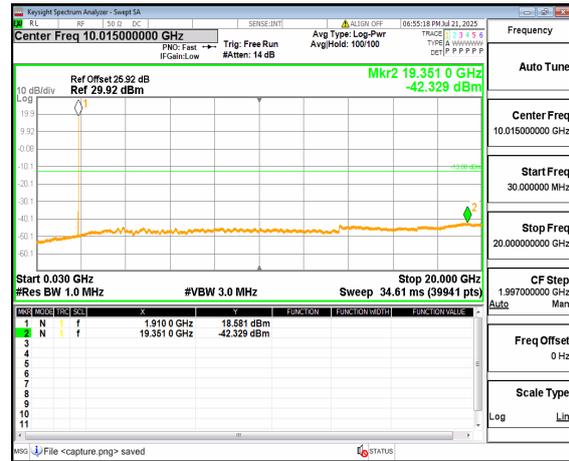n2 (30MHz-20GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Right Low

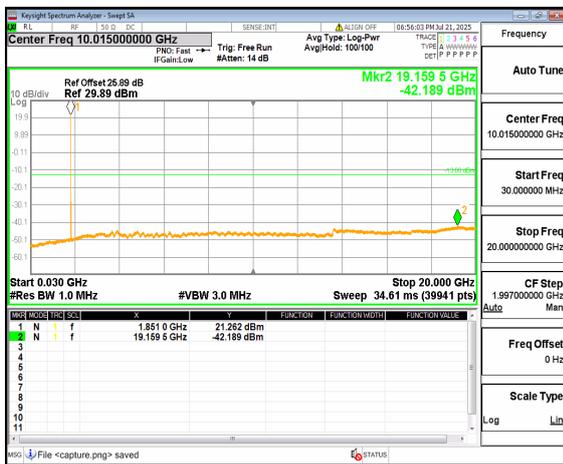n2 (30MHz-20GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Left Mid

n2 (30MHz-20GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Right Mid

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n2 (30MHz-20GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Left High

n2 (30MHz-20GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Right High
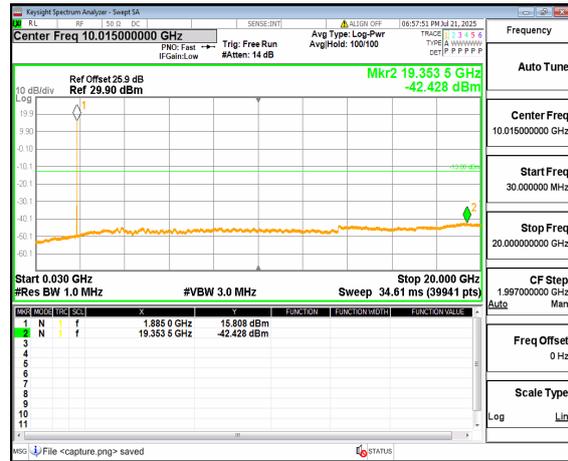

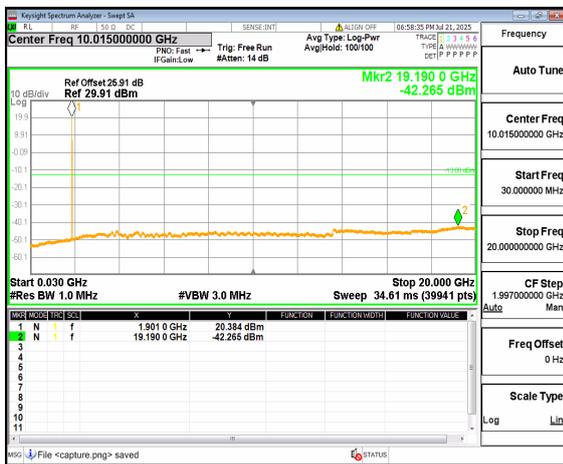n2 (30MHz-20GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Left Low

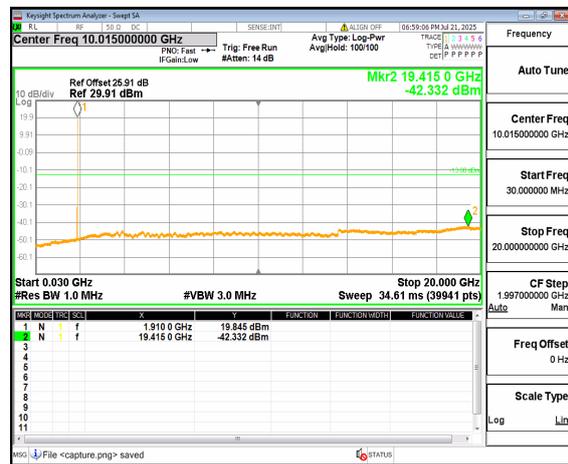n2 (30MHz-20GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Right Low

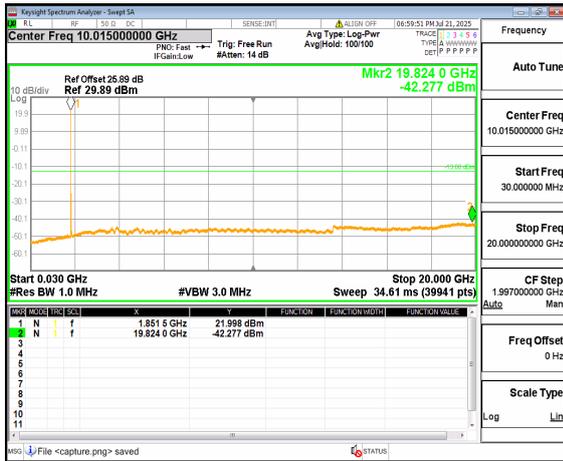n2 (30MHz-20GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Left Mid

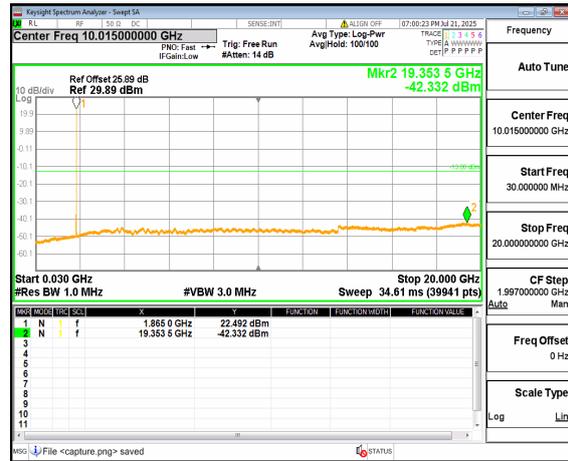n2 (30MHz-20GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Right Mid

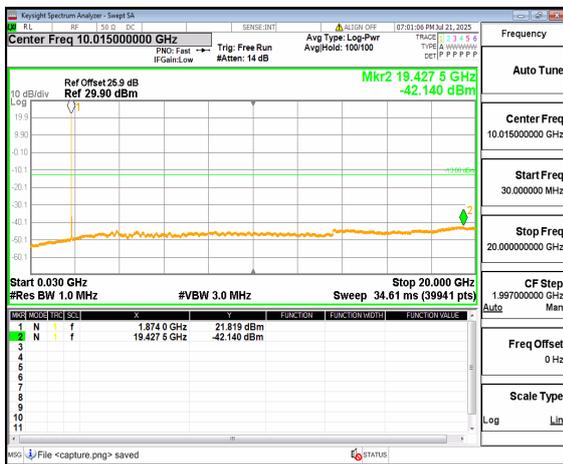n2 (30MHz-20GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Left High

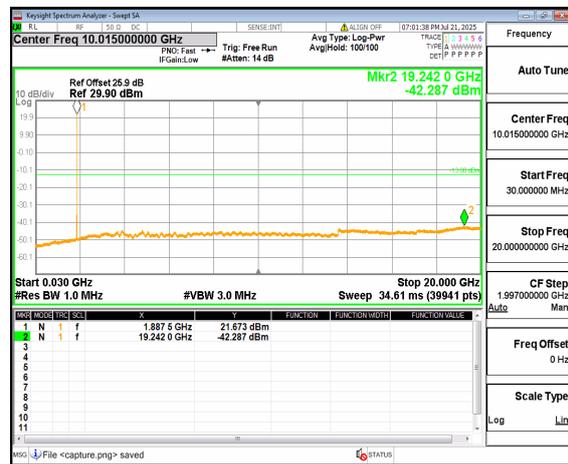n2 (30MHz-20GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Right High

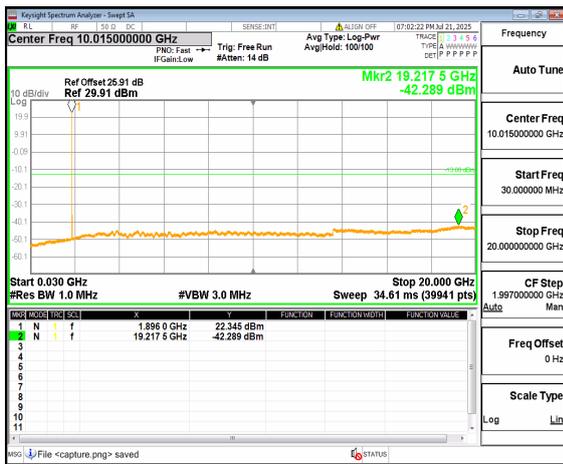n2 (30MHz-20GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Left Low

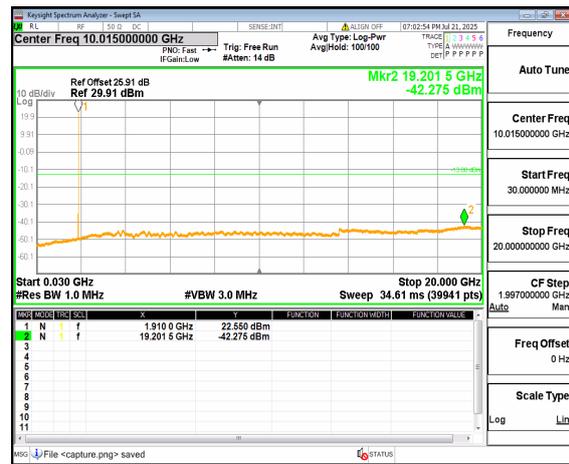n2 (30MHz-20GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Right Low

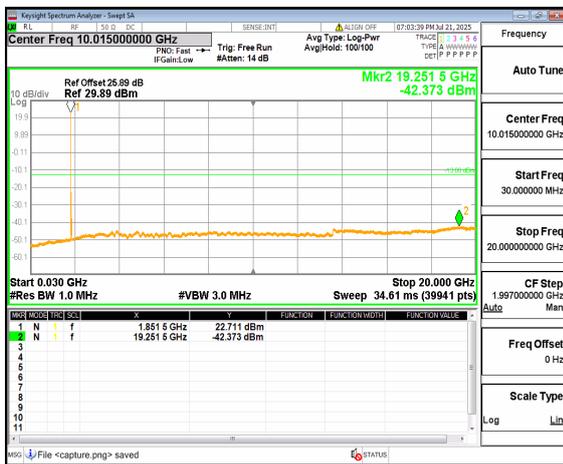n2 (30MHz-20GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Left Mid

n2 (30MHz-20GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Right Mid

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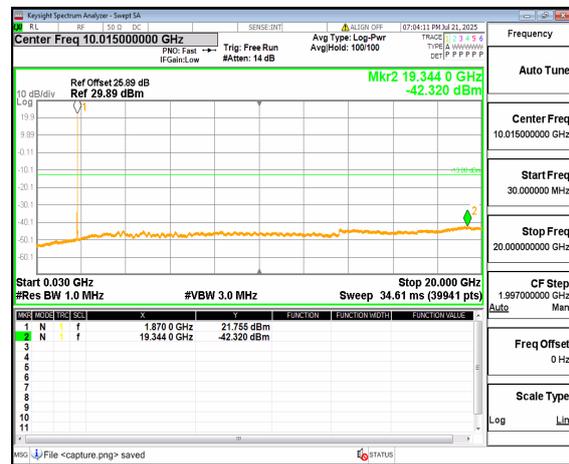
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n2 (30MHz-20GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Left High

n2 (30MHz-20GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Right High

n2 (30MHz-20GHz) 20M DFT-s-OFDM QPSK Inner_1RB_Left Low

n2 (30MHz-20GHz) 20M DFT-s-OFDM QPSK Inner_1RB_Right Low

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n2 (30MHz-20GHz) 20M DFT-s-OFDM QPSK Inner_1RB_Left Mid

n2 (30MHz-20GHz) 20M DFT-s-OFDM QPSK Inner_1RB_Right Mid

n2 (30MHz-20GHz) 20M DFT-s-OFDM QPSK Inner_1RB_Left High

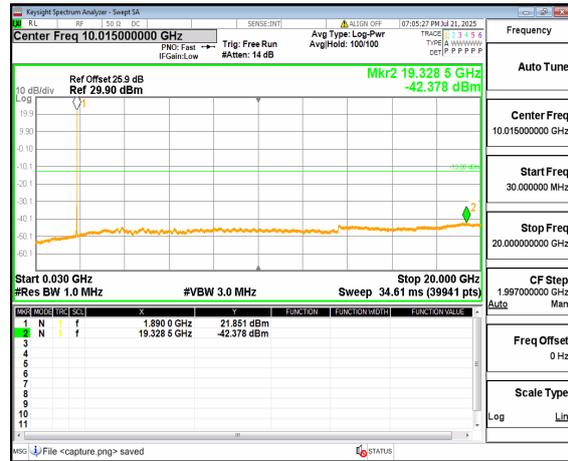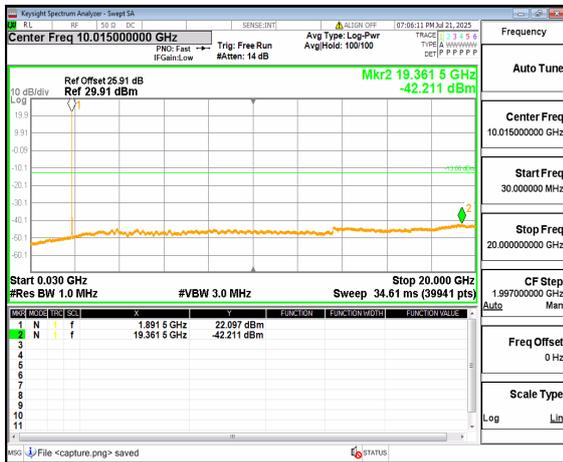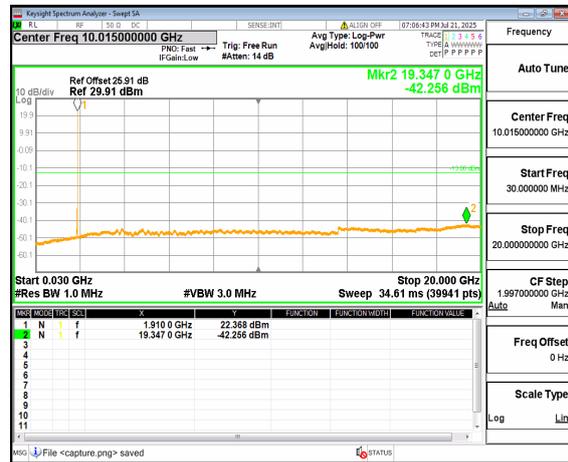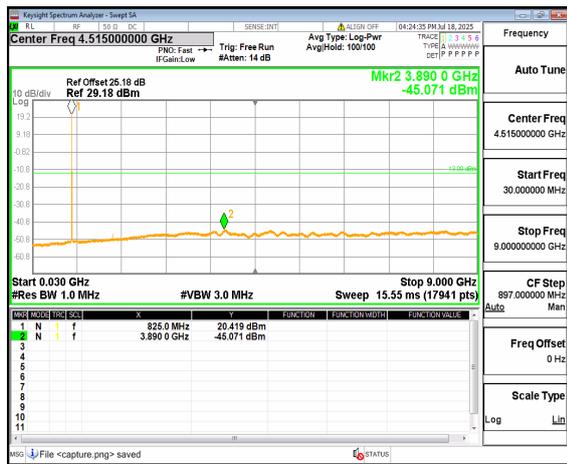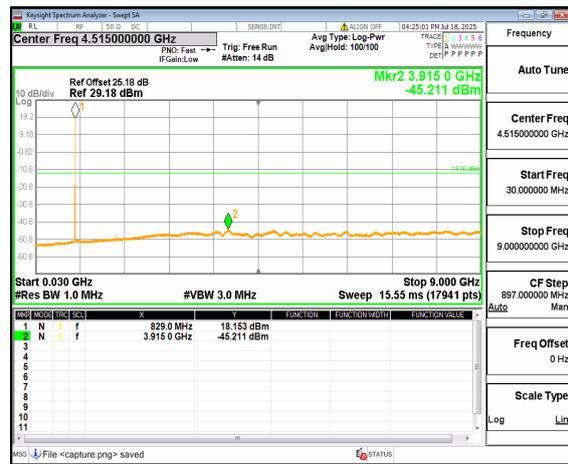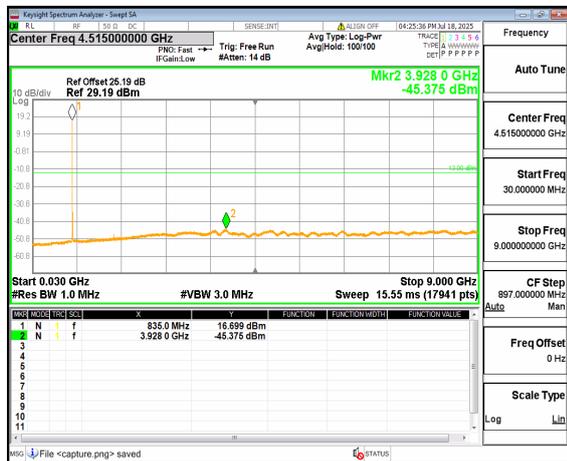n2 (30MHz-20GHz) 20M DFT-s-OFDM QPSK Inner_1RB_Right High

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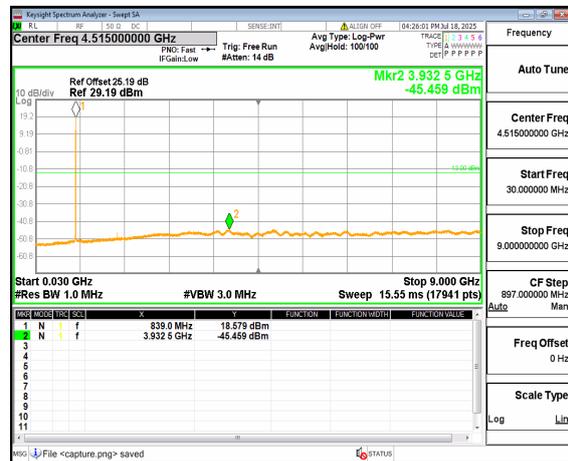Http://www.morlab.cn   E-mail: service@morlab.cn

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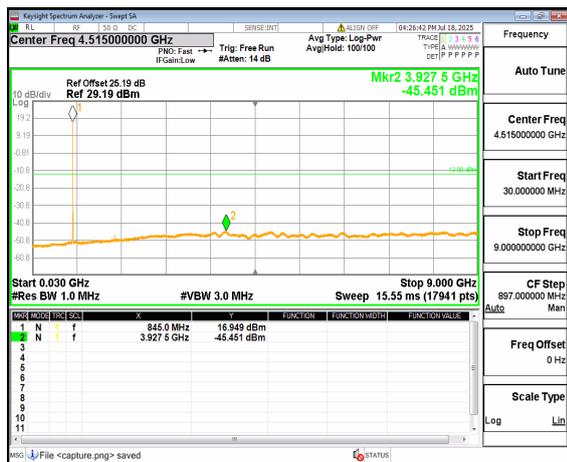n5 (30MHz-9GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Left Low

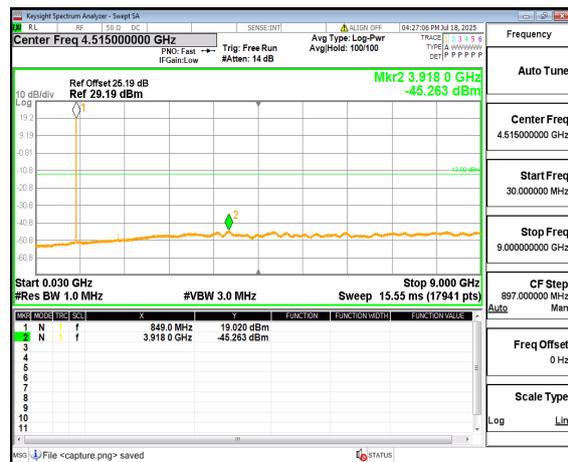n5 (30MHz-9GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Right Low

n5 (30MHz-9GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Left Mid

n5 (30MHz-9GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Right Mid

n5 (30MHz-9GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Left High

n5 (30MHz-9GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Right High

n5 (30MHz-9GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Left Low

n5 (30MHz-9GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Right Low
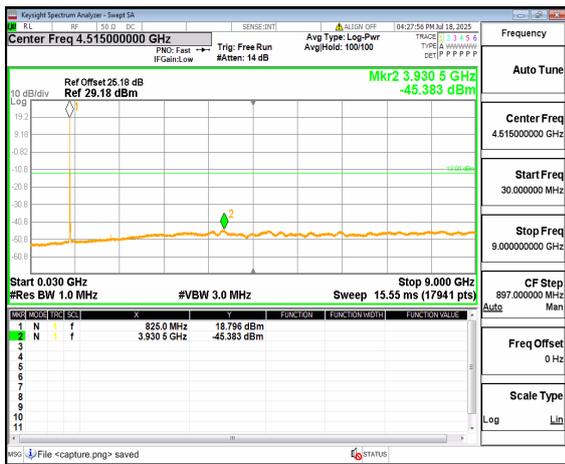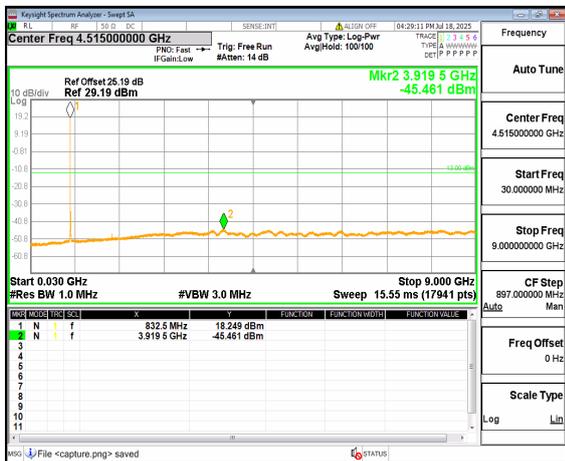

n5 (30MHz-9GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Left Mid

n5 (30MHz-9GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Right Mid

n5 (30MHz-9GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Left High

n5 (30MHz-9GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Right High

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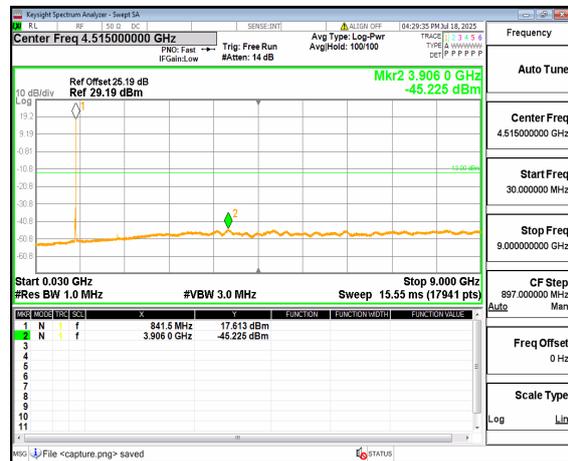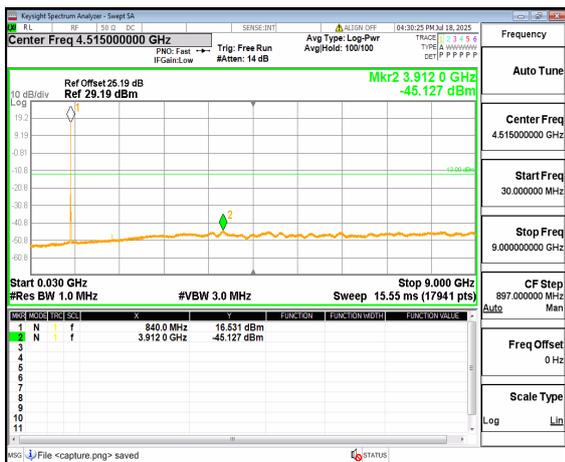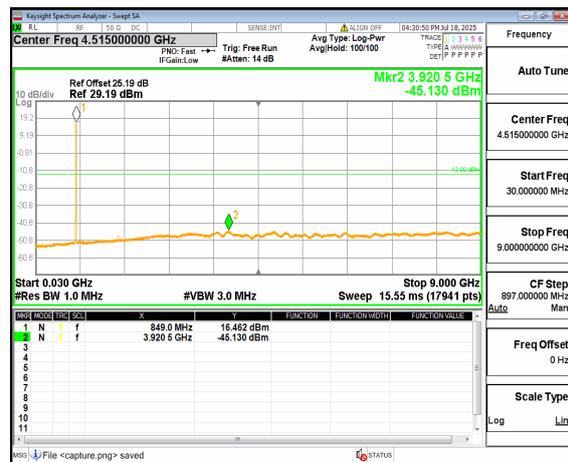
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n5 (30MHz-9GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Left Low

n5 (30MHz-9GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Right Low

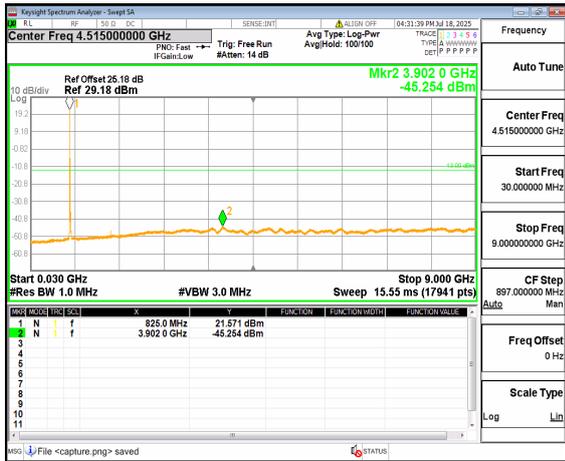n5 (30MHz-9GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Left Mid
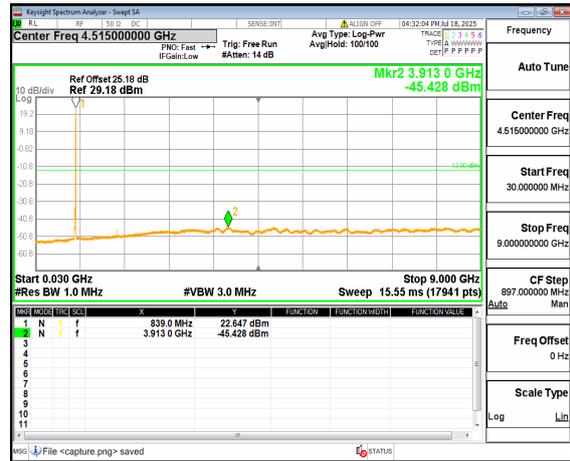

n5 (30MHz-9GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Right Mid
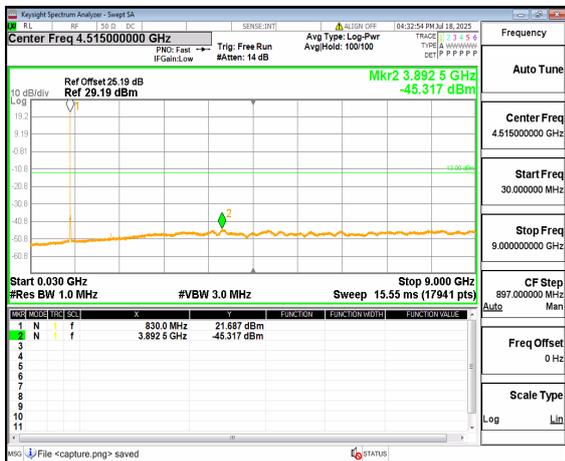

n5 (30MHz-9GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Left High

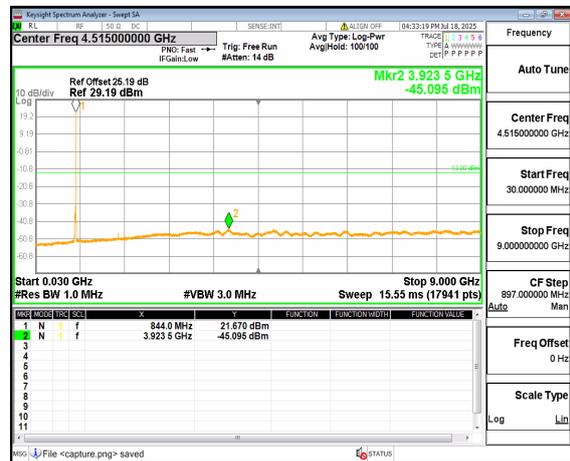

n5 (30MHz-9GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Right High

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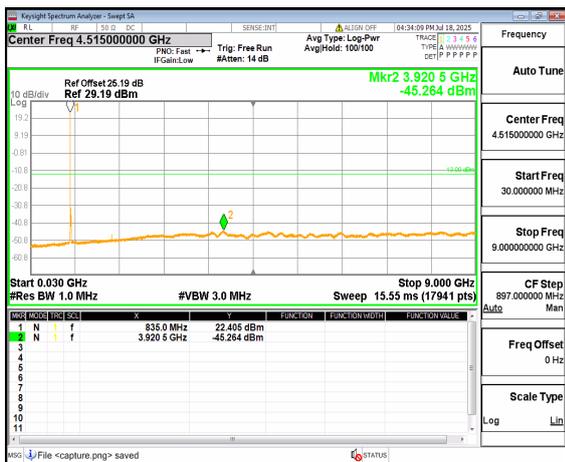n5 (30MHz-9GHz) 20M DFT-s-OFDM QPSK
Inner_1RB_Left Low

n5 (30MHz-9GHz) 20M DFT-s-OFDM QPSK
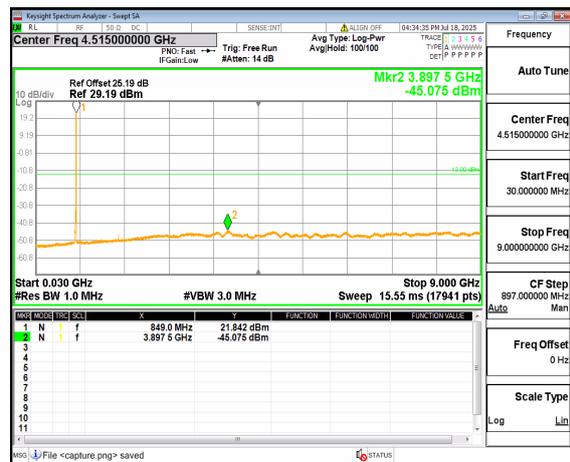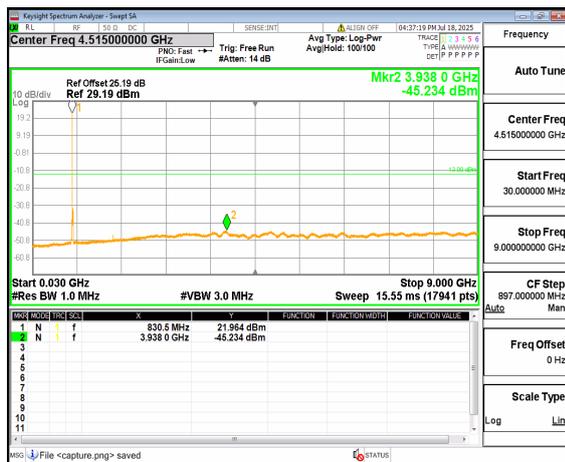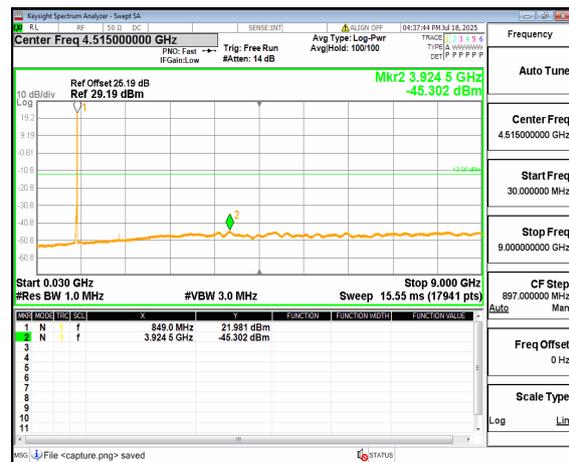Inner_1RB_Right Low

n5 (30MHz-9GHz) 20M DFT-s-OFDM QPSK
Inner_1RB_Left Mid

n5 (30MHz-9GHz) 20M DFT-s-OFDM QPSK
Inner_1RB_Right Mid

n5 (30MHz-9GHz) 20M DFT-s-OFDM QPSK
Inner_1RB_Left High

n5 (30MHz-9GHz) 20M DFT-s-OFDM QPSK
Inner_1RB_Right High

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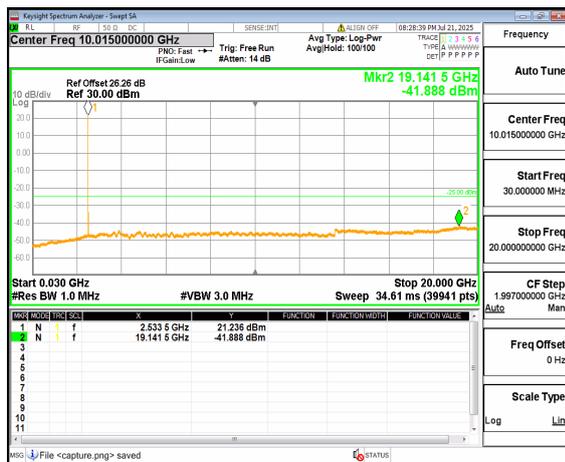n7 (30MHz-20GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Left Low

n7 (20GHz-26GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Left Low

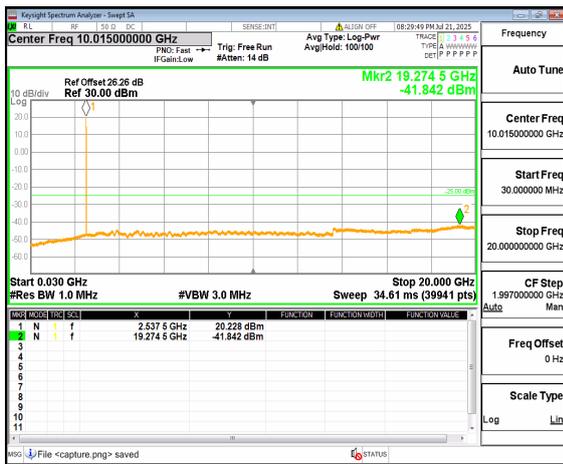n7 (30MHz-20GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Right Low

n7 (20GHz-26GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Right Low

n7 (30MHz-20GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Left Mid

n7 (20GHz-26GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Left Mid

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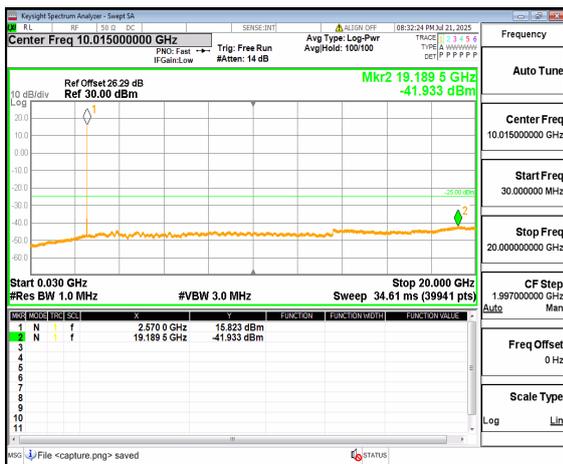n7 (30MHz-20GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Right Mid

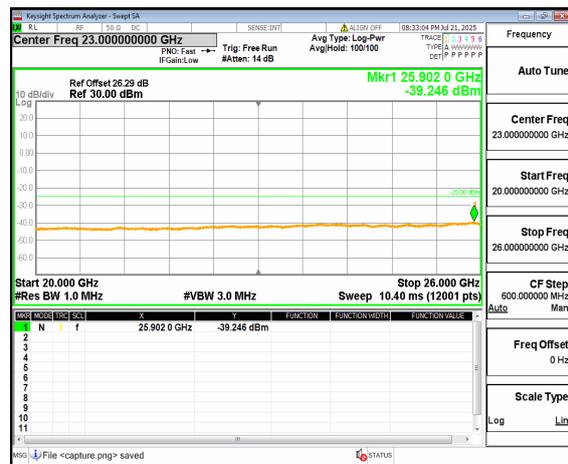n7 (20GHz-26GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Right Mid

n7 (30MHz-20GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Left High

n7 (20GHz-26GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Left High

n7 (30MHz-20GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Right High

n7 (20GHz-26GHz) 5M DFT-s-OFDM QPSK Inner_1RB_Right High

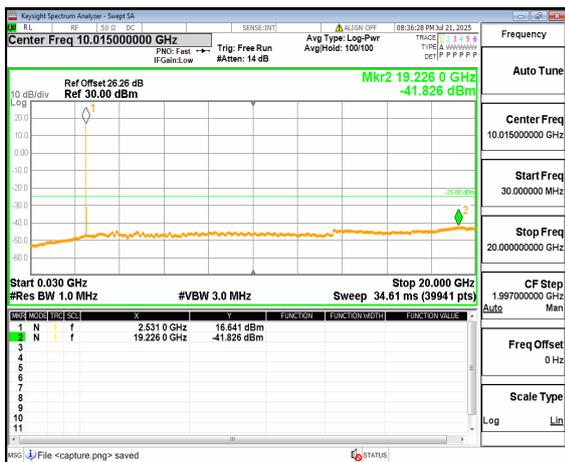n7 (30MHz-20GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Left Low

n7 (20GHz-26GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Left Low

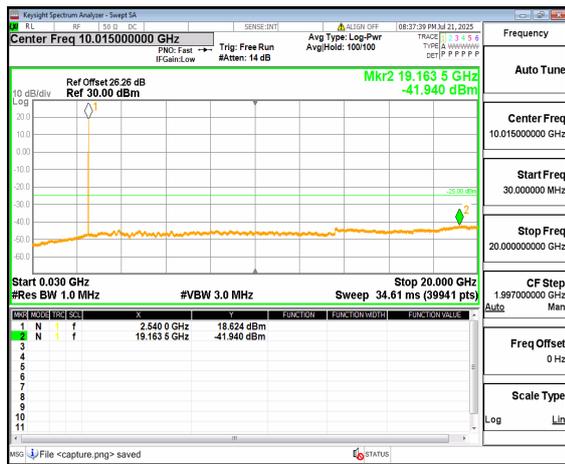n7 (30MHz-20GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Right Low

n7 (20GHz-26GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Right Low

n7 (30MHz-20GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Left Mid

n7 (20GHz-26GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Left Mid

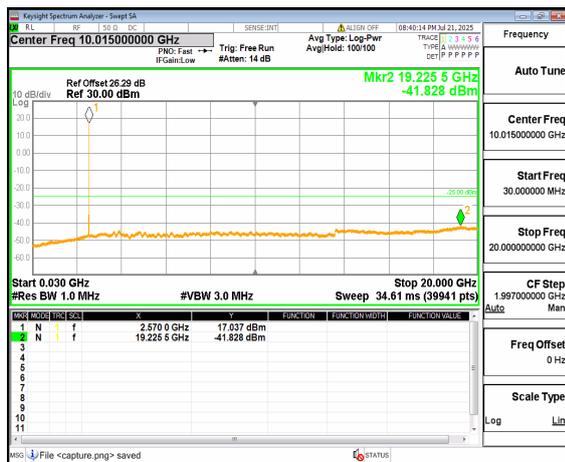n7 (30MHz-20GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Right Mid

n7 (20GHz-26GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Right Mid

n7 (30MHz-20GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Left High

n7 (20GHz-26GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Left High

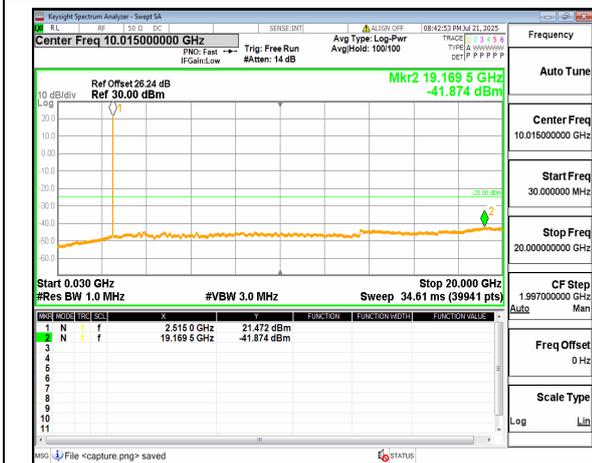n7 (30MHz-20GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Right High

n7 (20GHz-26GHz) 10M DFT-s-OFDM QPSK Inner_1RB_Right High

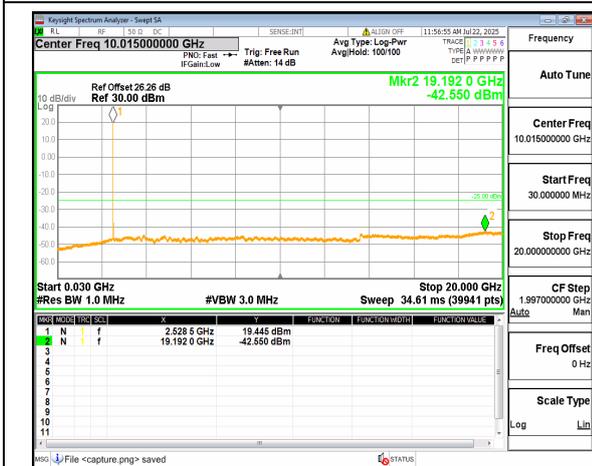n7 (30MHz-20GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Left Low

n7 (20GHz-26GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Left Low

n7 (30MHz-20GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Right Low

n7 (20GHz-26GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Right Low

n7 (30MHz-20GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Left Mid

n7 (20GHz-26GHz) 15M DFT-s-OFDM QPSK Inner_1RB_Left Mid