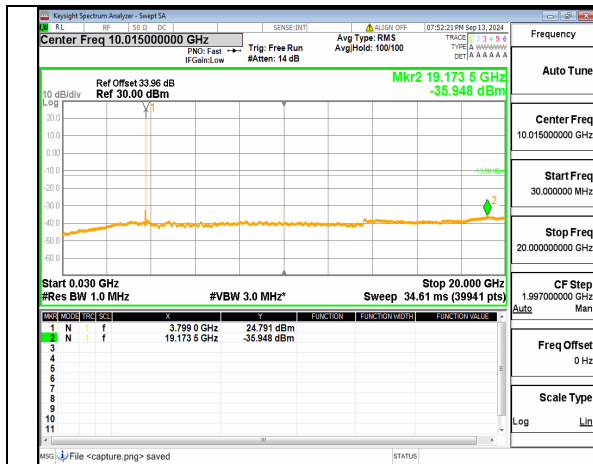
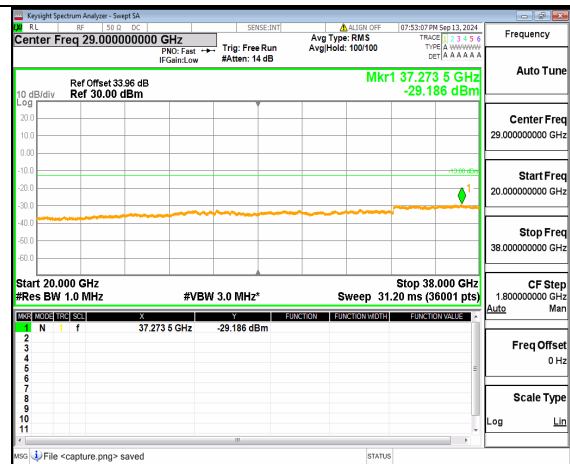
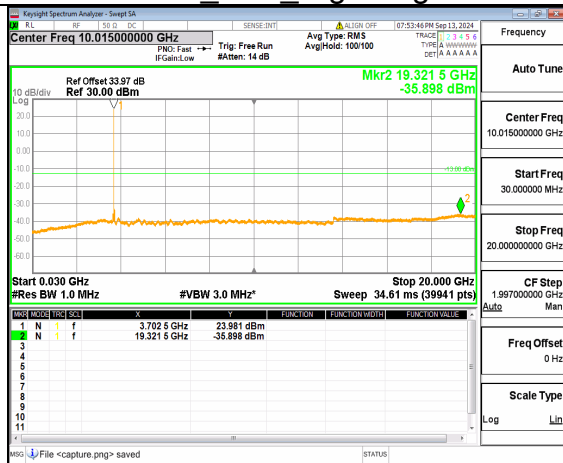




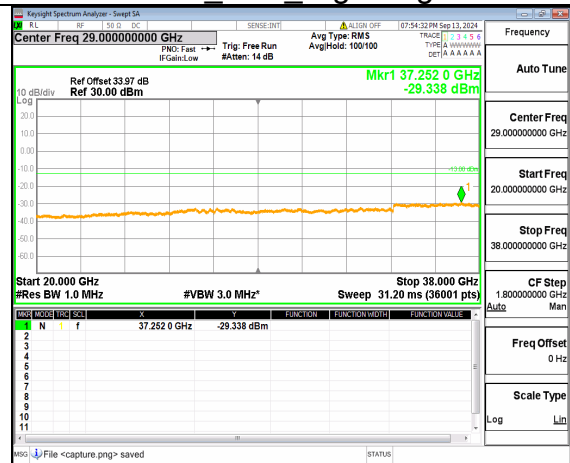
n78(3700-3800MHz) (30MHz-20GHz)
40M DFT-s-OFDM QPSK
Inner_1RB_Right_High



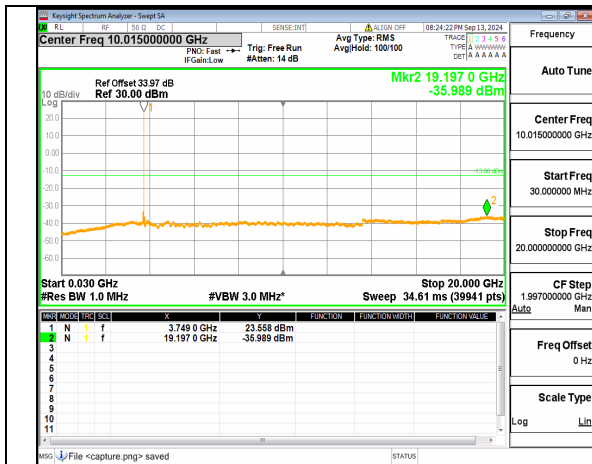
n78(3700-3800MHz) (20GHz-38GHz)
40M DFT-s-OFDM QPSK
Inner_1RB_Right_High



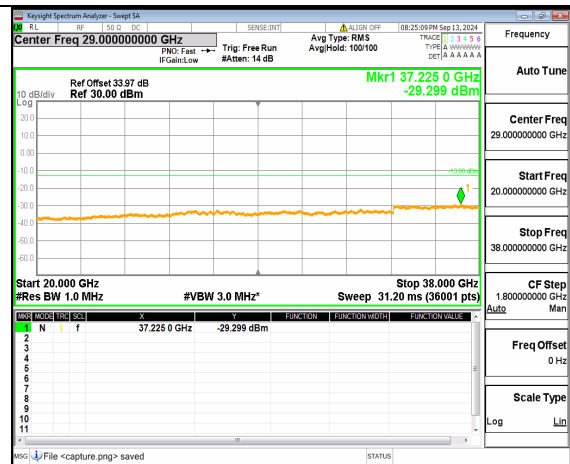
n78(3700-3800MHz) (30MHz-20GHz)
50M DFT-s-OFDM BPSK Inner_1RB_Left
Low



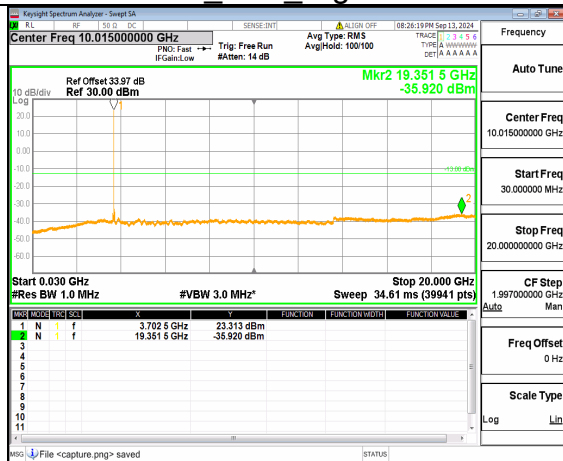
n78(3700-3800MHz) (20GHz-38GHz)
50M DFT-s-OFDM BPSK Inner_1RB_Left
Low



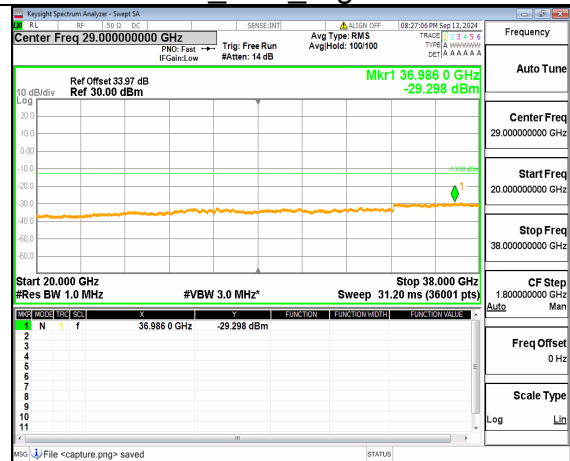
n78(3700-3800MHz) (30MHz-20GHz)
50M DFT-s-OFDM BPSK
Inner_1RB_Right Low



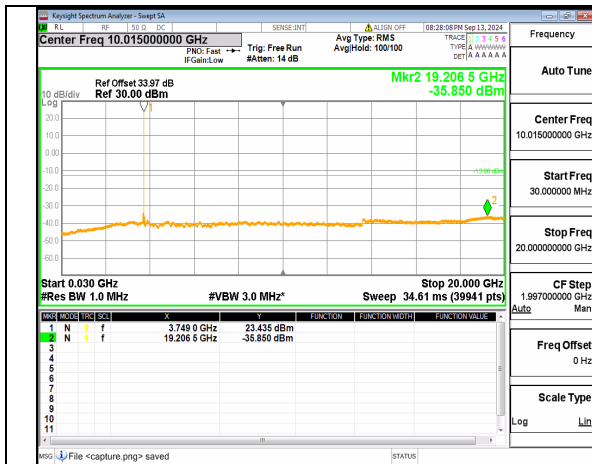
n78(3700-3800MHz) (20GHz-38GHz)
50M DFT-s-OFDM BPSK
Inner_1RB_Right Low



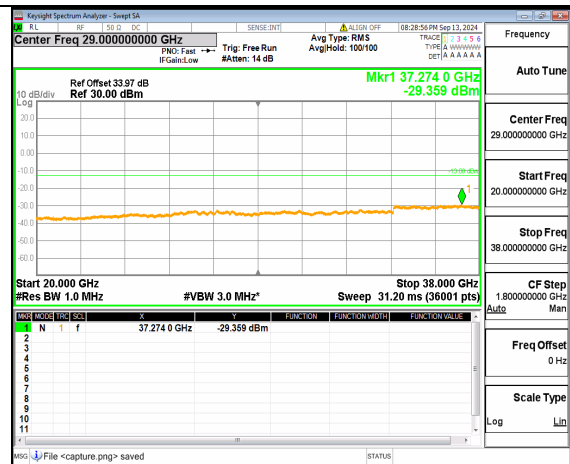
n78(3700-3800MHz) (30MHz-20GHz)
50M DFT-s-OFDM QPSK
Inner_1RB_Left Low



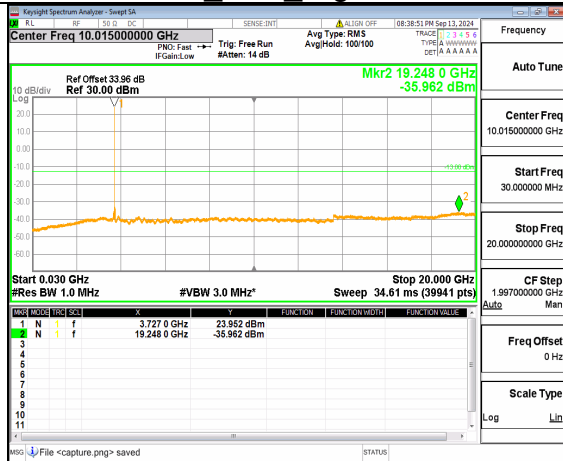
n78(3700-3800MHz) (20GHz-38GHz)
50M DFT-s-OFDM QPSK Inner_1RB_Left
Low



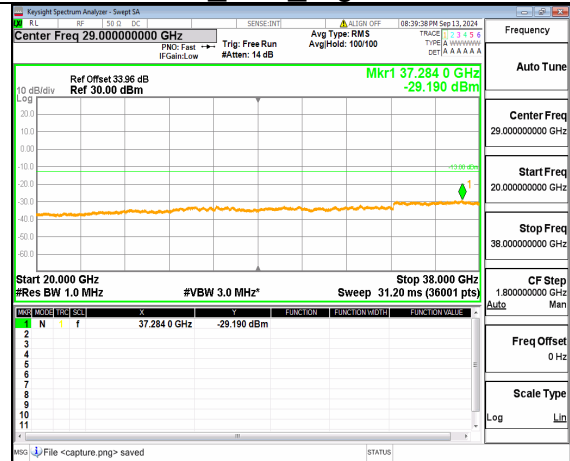
n78(3700-3800MHz) (30MHz-20GHz)
50M DFT-s-OFDM QPSK
Inner_1RB_Right Low



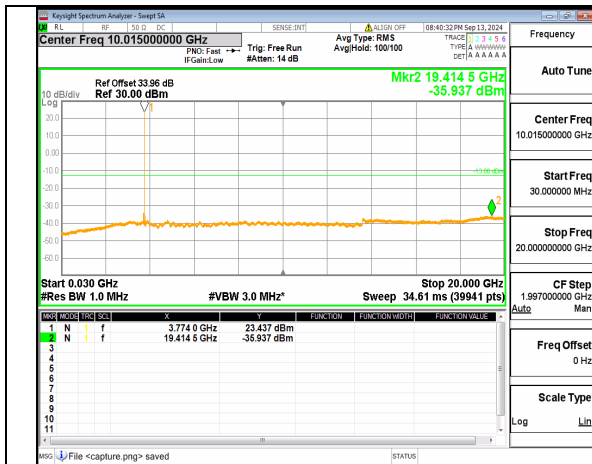
n78(3700-3800MHz) (20GHz-38GHz)
50M DFT-s-OFDM QPSK
Inner_1RB_Right Low



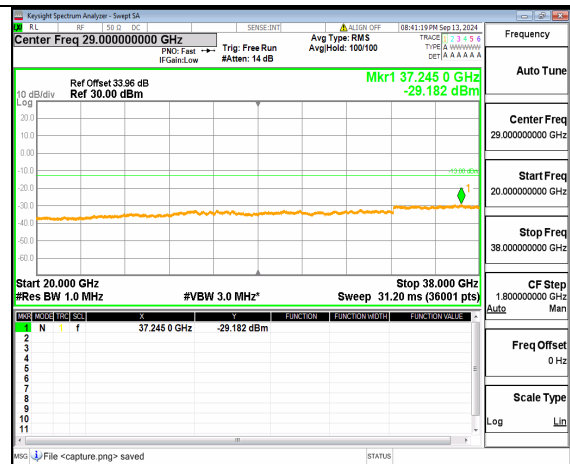
n78(3700-3800MHz) (30MHz-20GHz)
50M DFT-s-OFDM BPSK Inner_1RB_Left
Mid



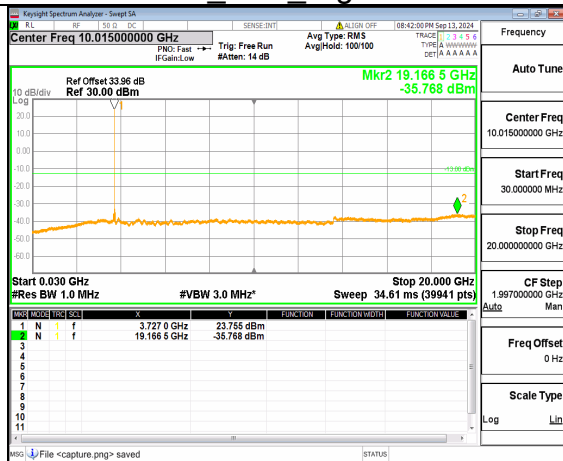
n78(3700-3800MHz) (20GHz-38GHz)
50M DFT-s-OFDM BPSK Inner_1RB_Left
Mid



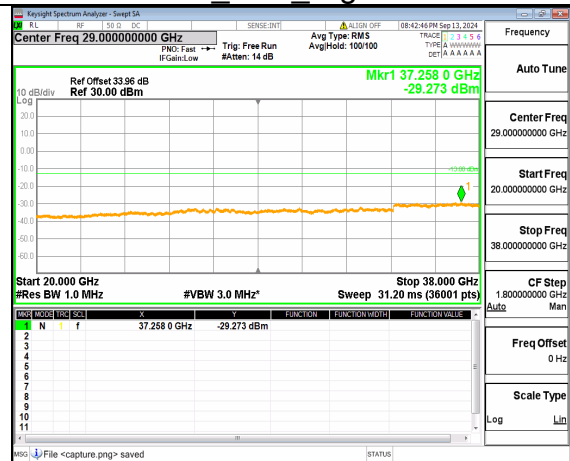
n78(3700-3800MHz) (30MHz-20GHz)
50M DFT-s-OFDM BPSK
Inner_1RB_Right Mid



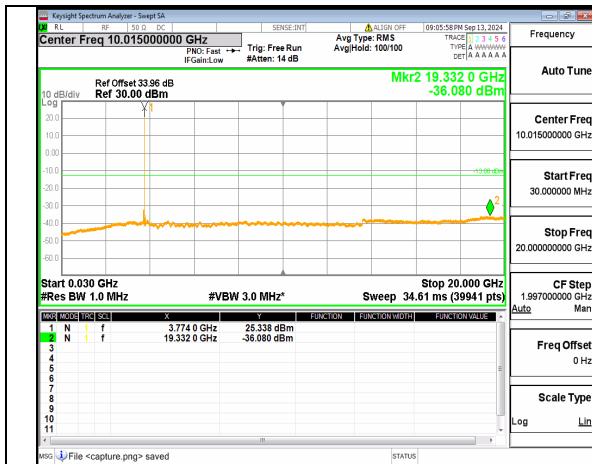
n78(3700-3800MHz) (20GHz-38GHz)
50M DFT-s-OFDM BPSK
Inner_1RB_Right Mid



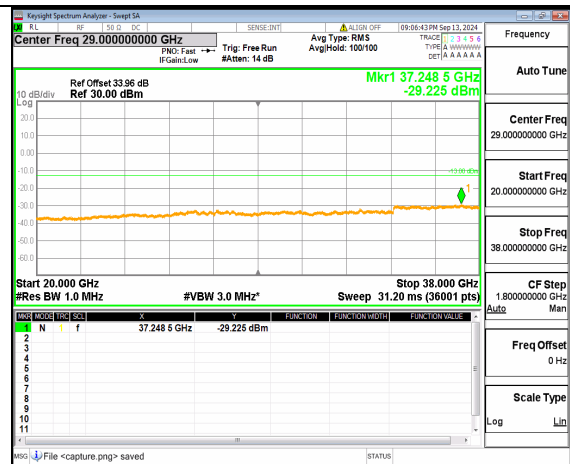
n78(3700-3800MHz) (30MHz-20GHz)
50M DFT-s-OFDM QPSK
Inner_1RB_Left Mid



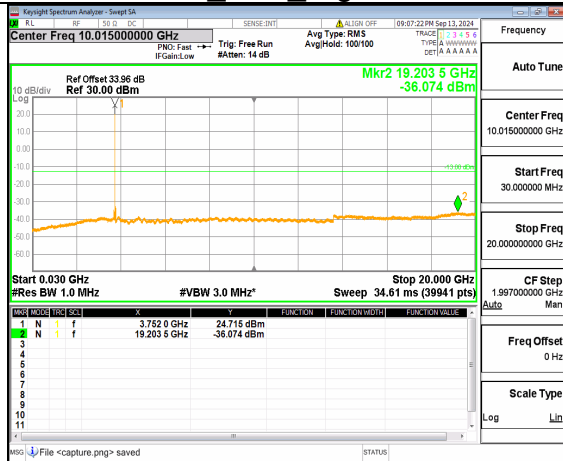
n78(3700-3800MHz) (20GHz-38GHz)
50M DFT-s-OFDM QPSK Inner_1RB_Left
Mid



n78(3700-3800MHz) (30MHz-20GHz)
50M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



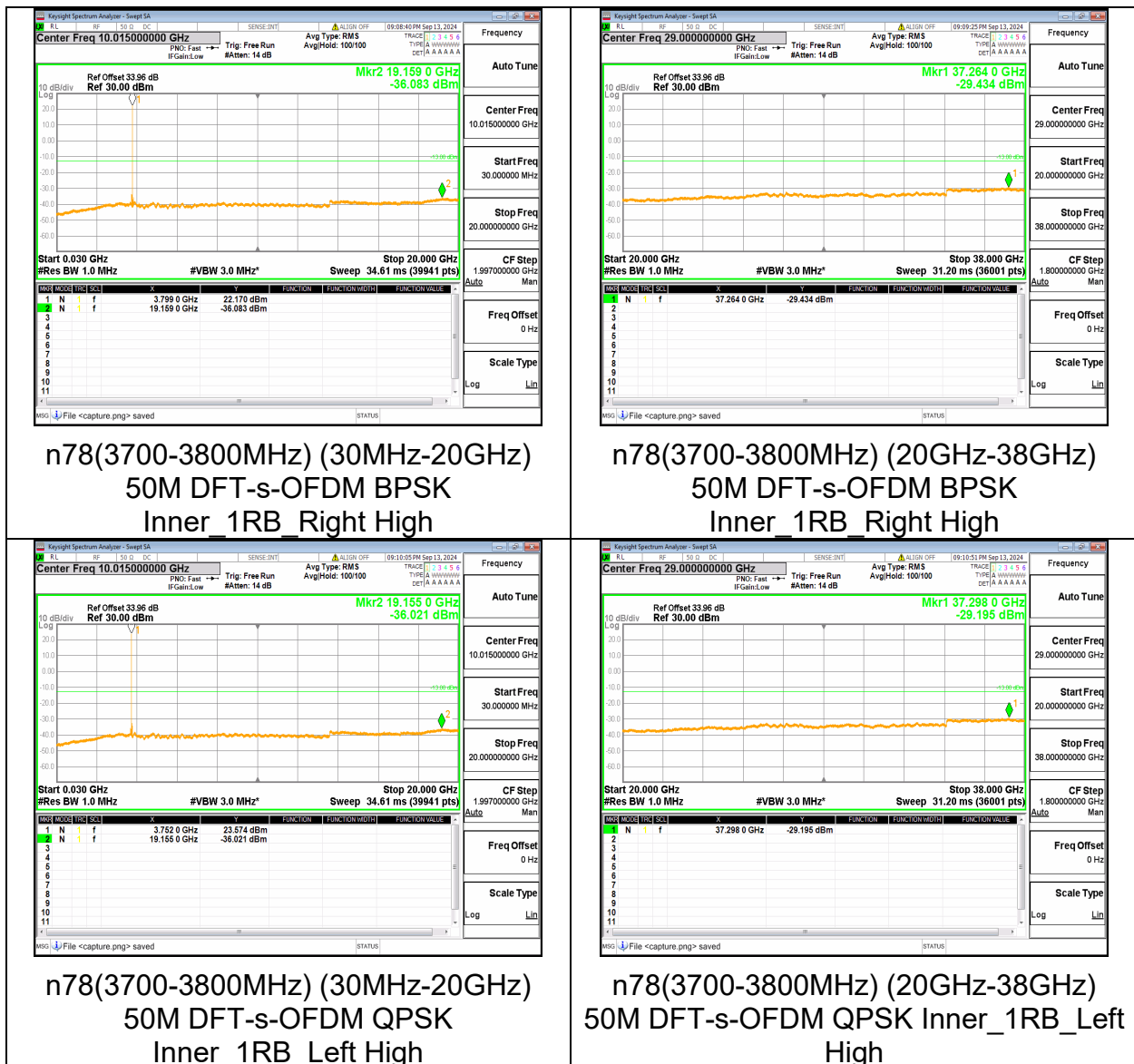
n78(3700-3800MHz) (20GHz-38GHz)
50M DFT-s-OFDM QPSK
Inner_1RB_Right Mid

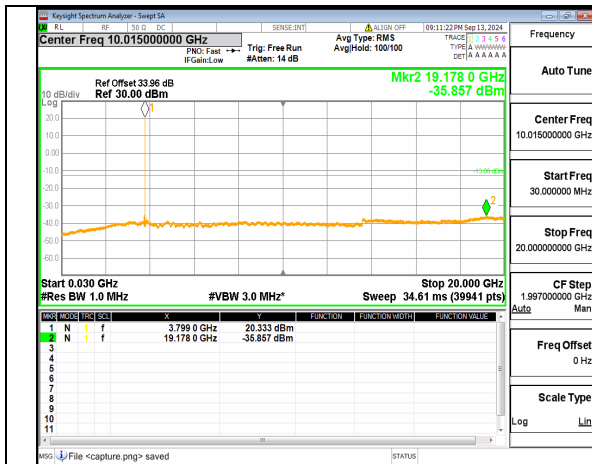


n78(3700-3800MHz) (30MHz-20GHz)
50M DFT-s-OFDM BPSK Inner_1RB_Left
High

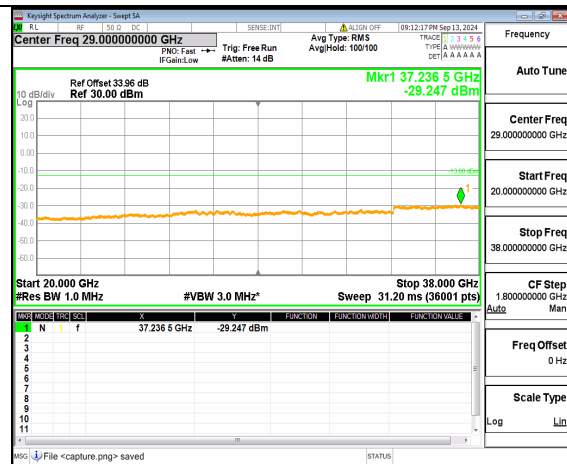


n78(3700-3800MHz) (20GHz-38GHz)
50M DFT-s-OFDM BPSK Inner_1RB_Left
High

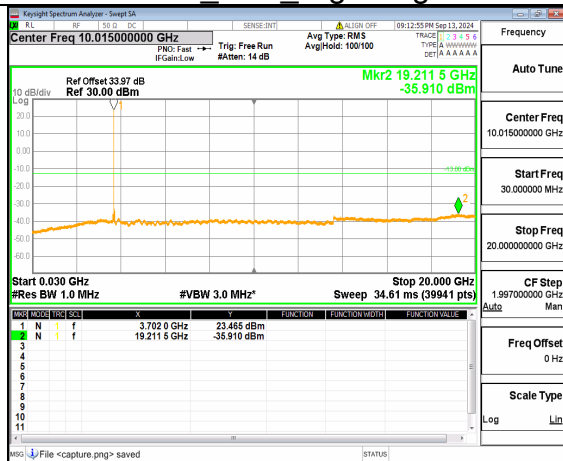




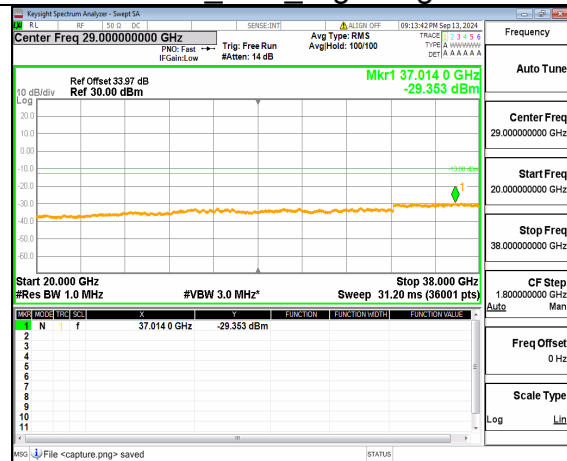
n78(3700-3800MHz) (30MHz-20GHz)
50M DFT-s-OFDM QPSK
Inner_1RB_Right_High



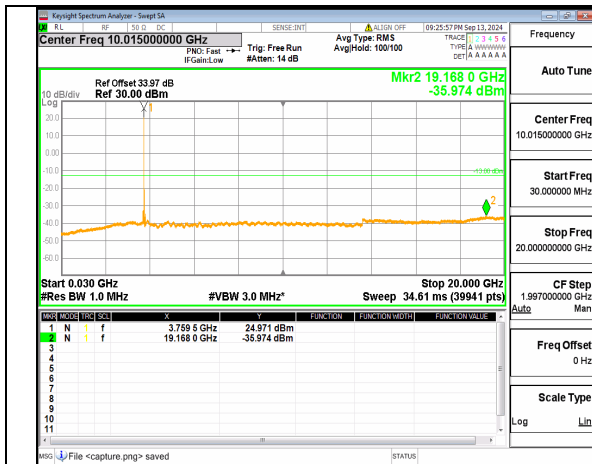
n78(3700-3800MHz) (20GHz-38GHz)
50M DFT-s-OFDM QPSK
Inner_1RB_Right_High



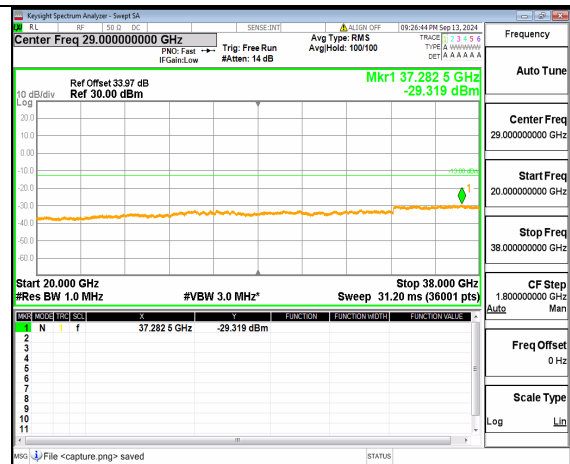
n78(3700-3800MHz) (30MHz-20GHz)
60M DFT-s-OFDM BPSK Inner_1RB_Left
Low



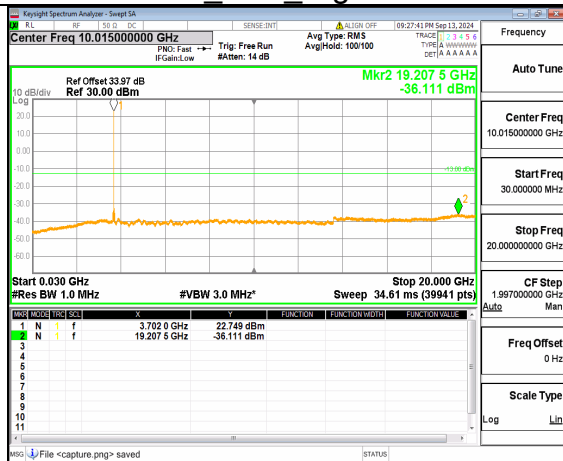
n78(3700-3800MHz) (20GHz-38GHz)
60M DFT-s-OFDM BPSK Inner_1RB_Left
Low



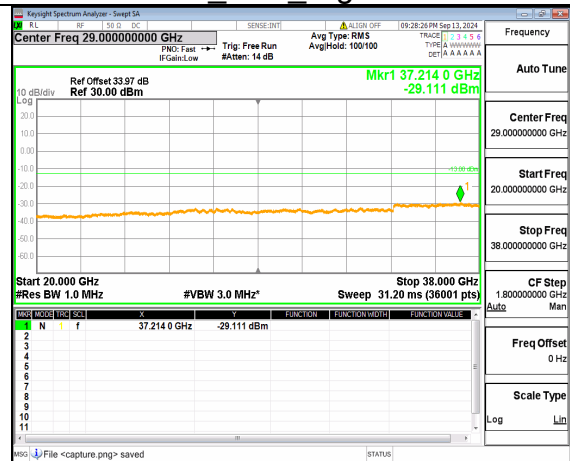
n78(3700-3800MHz) (30MHz-20GHz)
60M DFT-s-OFDM BPSK
Inner_1RB_Right Low



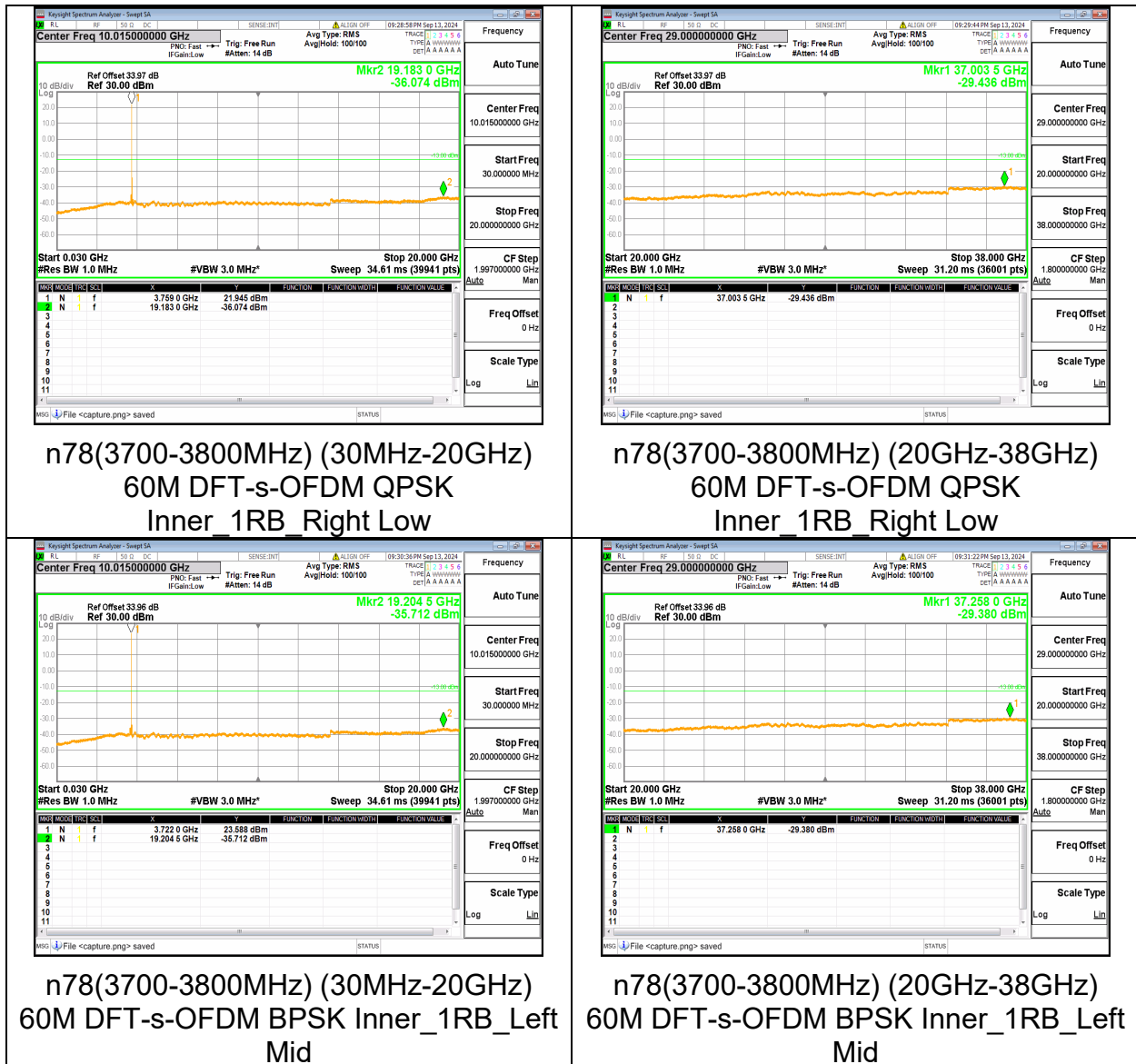
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60M DFT-s-OFDM BPSK
Inner_1RB_Right Low

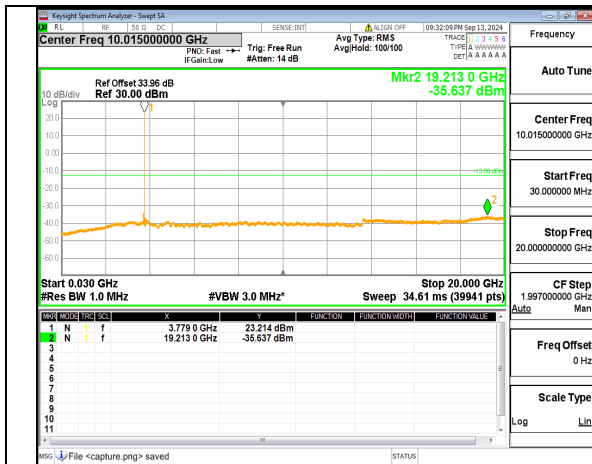


n78(3700-3800MHz) (30MHz-20GHz)
60M DFT-s-OFDM QPSK
Inner_1RB_Left Low

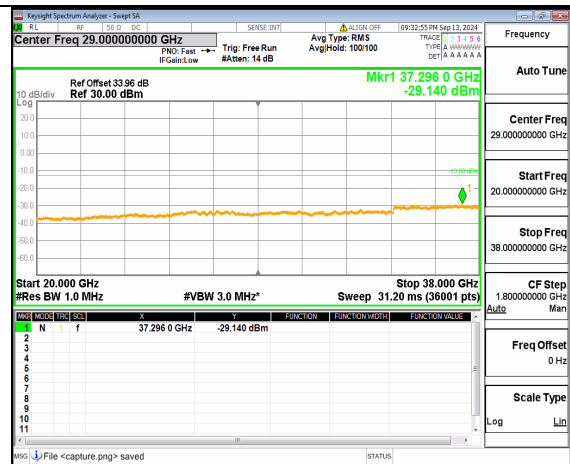


n78(3700-3800MHz) (20GHz-38GHz)
60M DFT-s-OFDM QPSK Inner_1RB_Left
Low

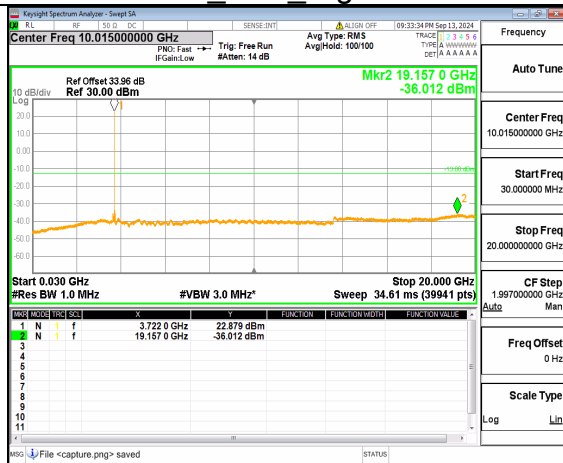




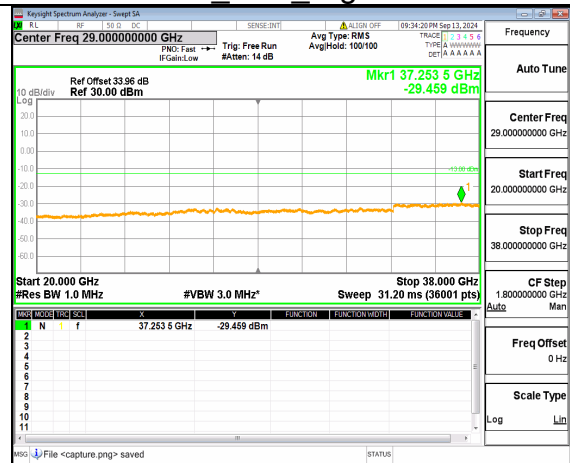
n78(3700-3800MHz) (30MHz-20GHz)
60M DFT-s-OFDM BPSK
Inner_1RB_Right Mid



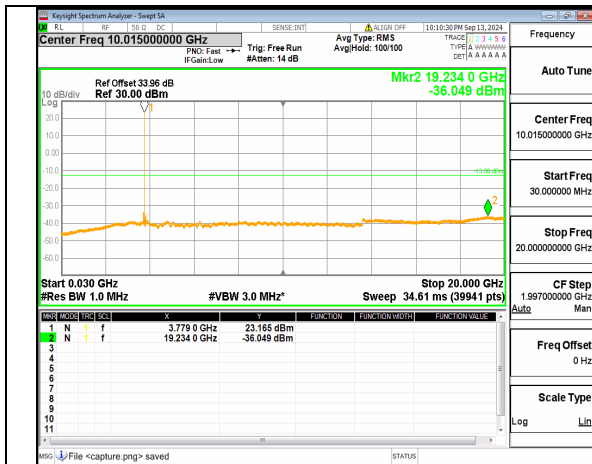
n78(3700-3800MHz) (20GHz-38GHz)
60M DFT-s-OFDM BPSK
Inner_1RB_Right Mid



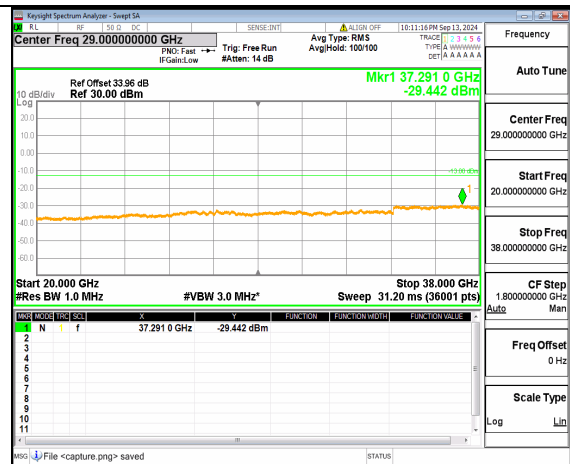
n78(3700-3800MHz) (30MHz-20GHz)
60M DFT-s-OFDM QPSK
Inner_1RB_Left Mid



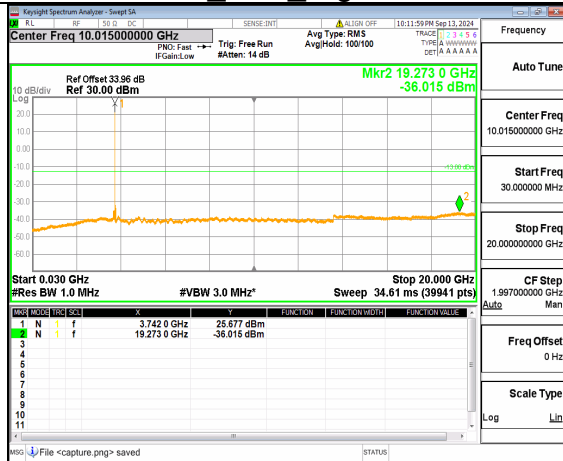
n78(3700-3800MHz) (20GHz-38GHz)
60M DFT-s-OFDM QPSK Inner_1RB_Left
Mid



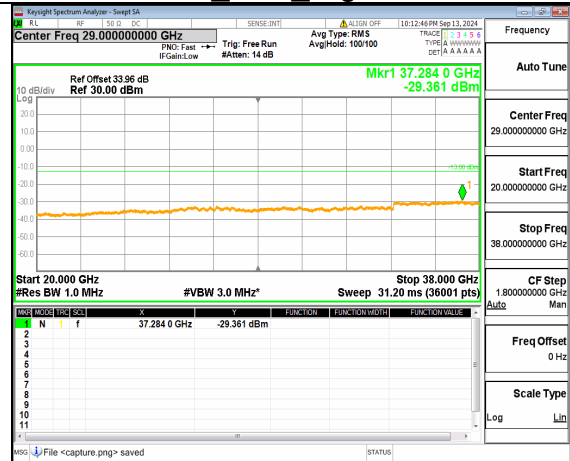
n78(3700-3800MHz) (30MHz-20GHz)
60M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



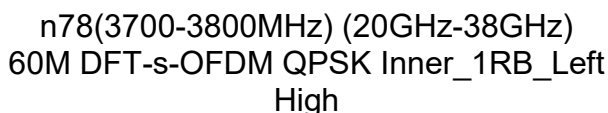
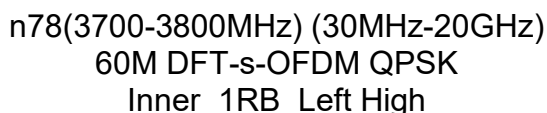
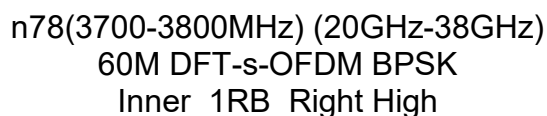
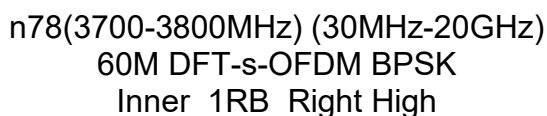
n78(3700-3800MHz) (20GHz-38GHz)
60M DFT-s-OFDM QPSK
Inner_1RB_Right Mid

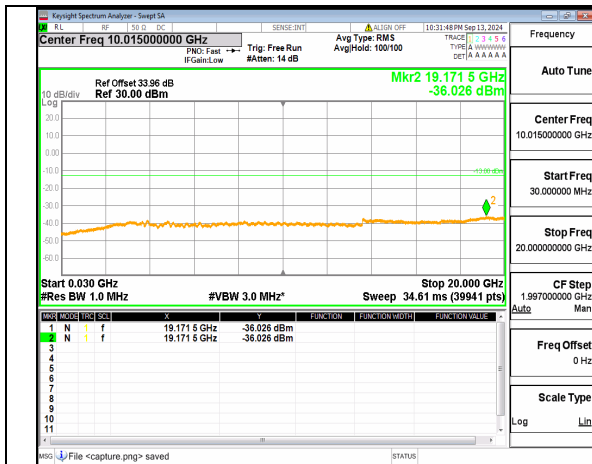


n78(3700-3800MHz) (30MHz-20GHz)
60M DFT-s-OFDM BPSK Inner_1RB_Left
High

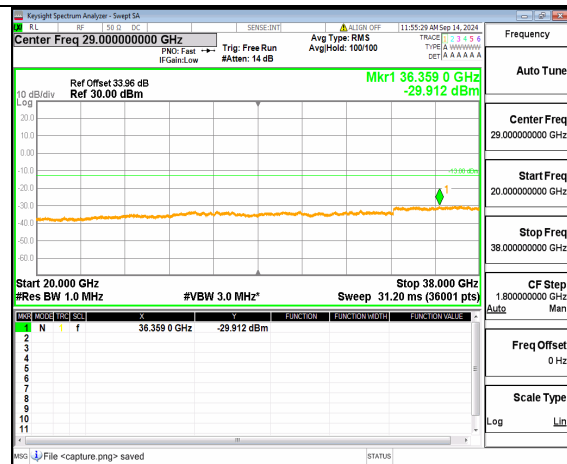


n78(3700-3800MHz) (20GHz-38GHz)
60M DFT-s-OFDM BPSK Inner_1RB_Left
High

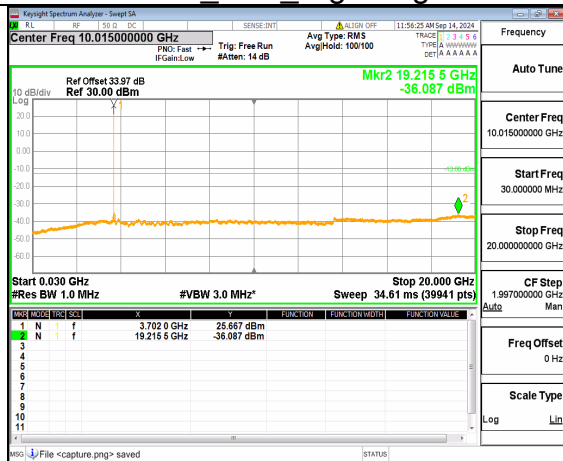




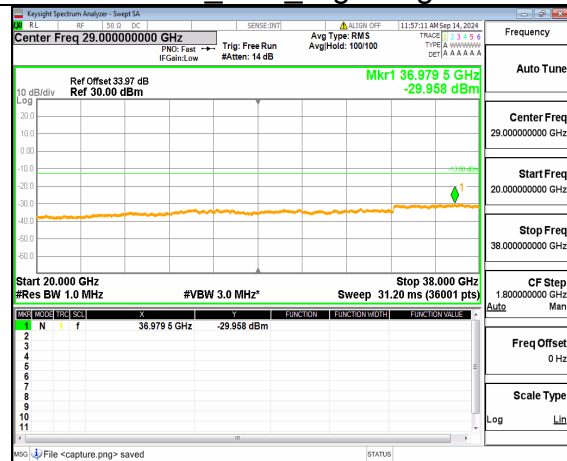
n78(3700-3800MHz) (30MHz-20GHz)
60M DFT-s-OFDM QPSK
Inner_1RB_Right_High



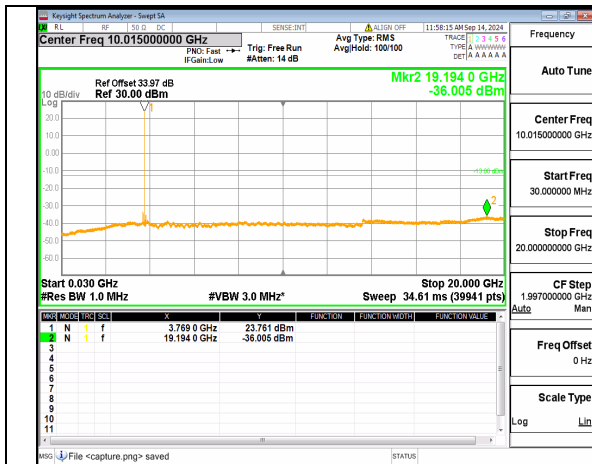
n78(3700-3800MHz) (20GHz-38GHz)
60M DFT-s-OFDM QPSK
Inner_1RB_Right_High



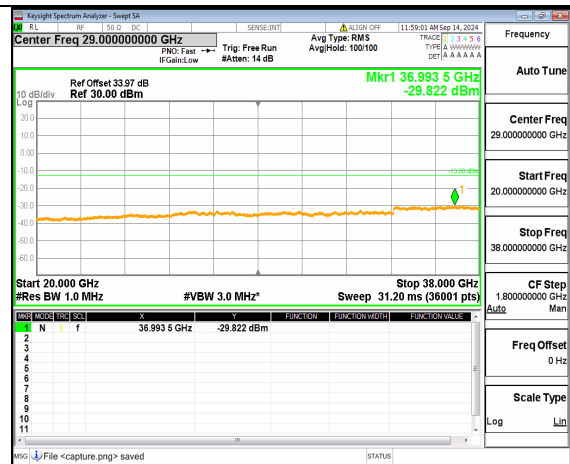
n78(3700-3800MHz) (30MHz-20GHz)
70M DFT-s-OFDM BPSK Inner_1RB_Left
Low



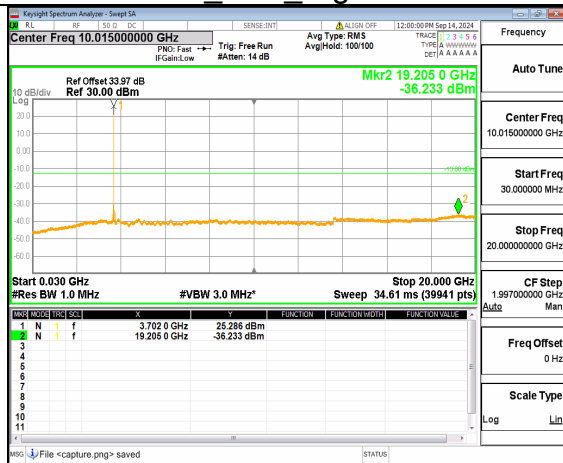
n78(3700-3800MHz) (20GHz-38GHz)
70M DFT-s-OFDM BPSK Inner_1RB_Left
Low



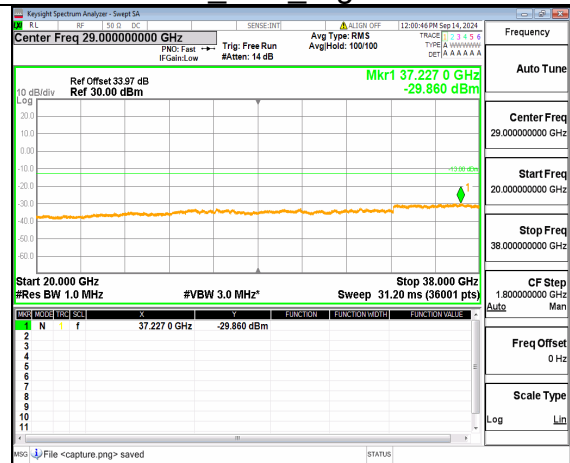
n78(3700-3800MHz) (30MHz-20GHz)
70M DFT-s-OFDM BPSK
Inner_1RB_Right Low



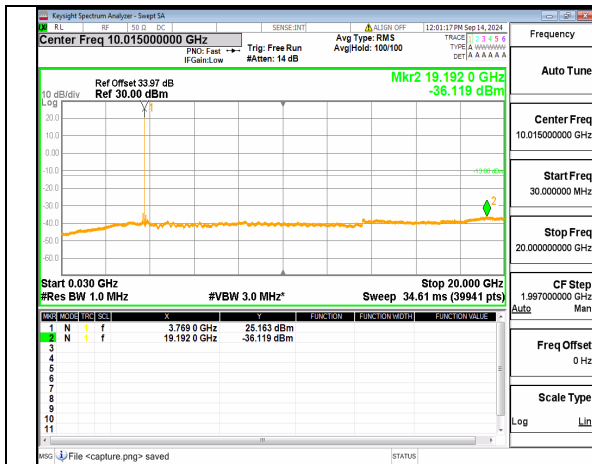
n78(3700-3800MHz) (20GHz-38GHz)
70M DFT-s-OFDM BPSK
Inner_1RB_Right Low



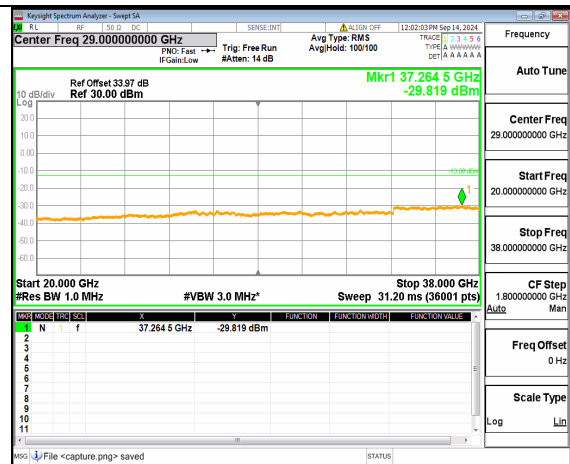
n78(3700-3800MHz) (30MHz-20GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Left Low



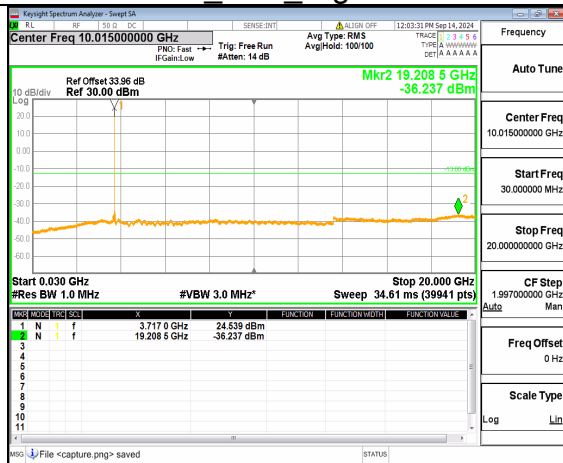
n78(3700-3800MHz) (20GHz-38GHz)
70M DFT-s-OFDM QPSK Inner_1RB_Left
Low



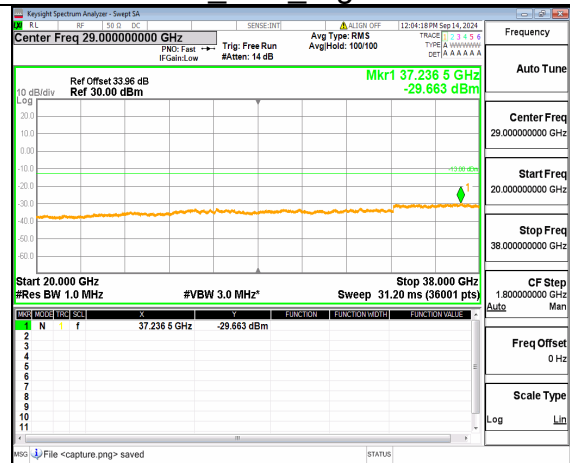
n78(3700-3800MHz) (30MHz-20GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Right Low



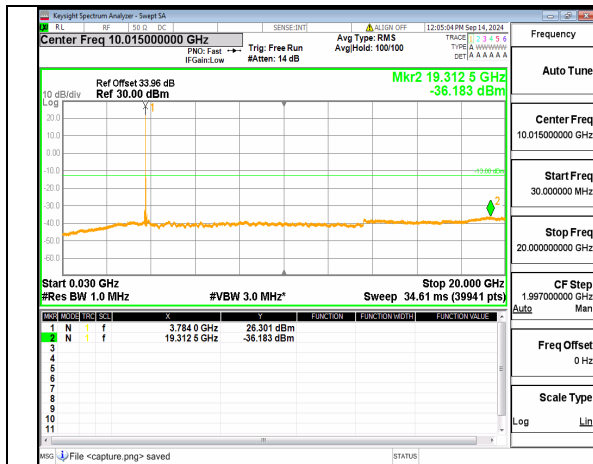
n78(3700-3800MHz) (20GHz-38GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Right Low



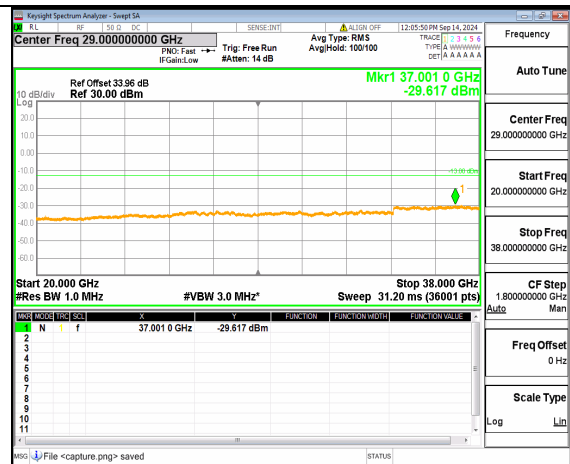
n78(3700-3800MHz) (30MHz-20GHz)
70M DFT-s-OFDM BPSK Inner_1RB_Left
Mid



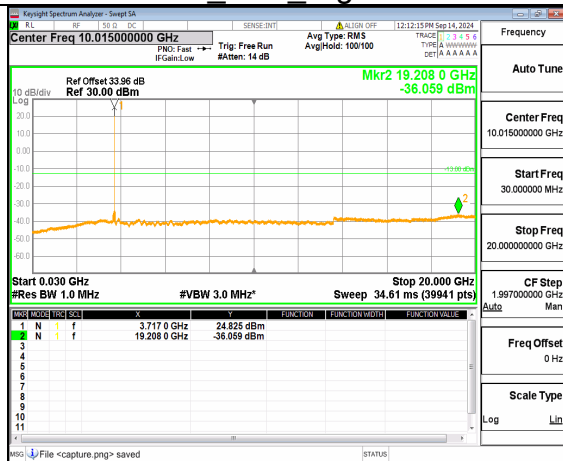
n78(3700-3800MHz) (20GHz-38GHz)
70M DFT-s-OFDM BPSK Inner_1RB_Left
Mid



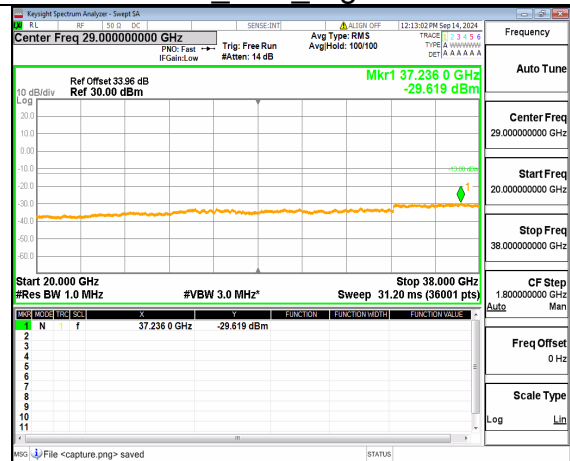
n78(3700-3800MHz) (30MHz-20GHz)
70M DFT-s-OFDM BPSK
Inner_1RB_Right Mid



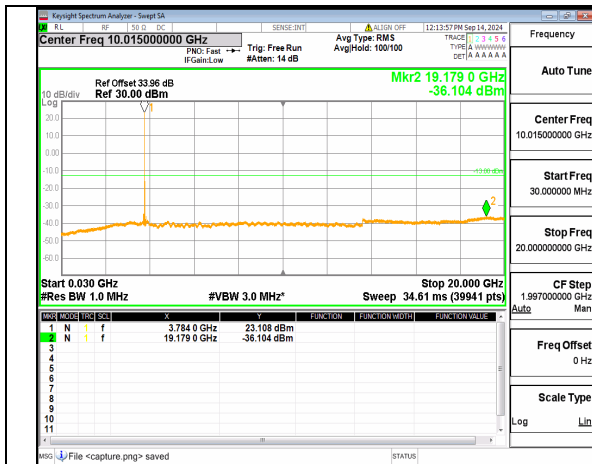
n78(3700-3800MHz) (20GHz-38GHz)
70M DFT-s-OFDM BPSK
Inner_1RB_Right Mid



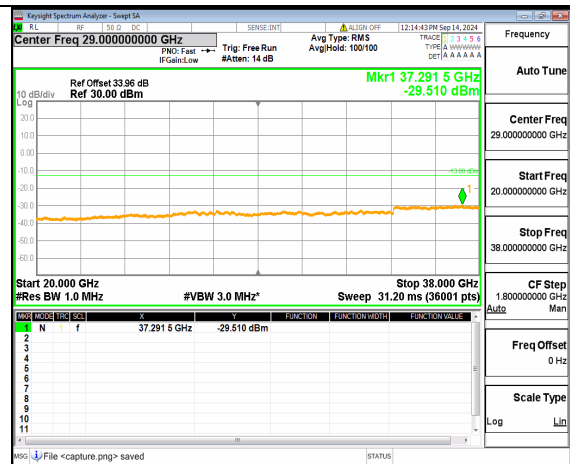
n78(3700-3800MHz) (30MHz-20GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Left Mid



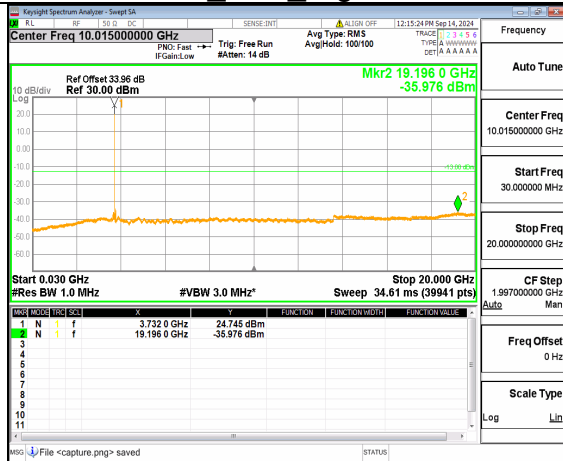
n78(3700-3800MHz) (20GHz-38GHz)
70M DFT-s-OFDM QPSK Inner_1RB_Left
Mid



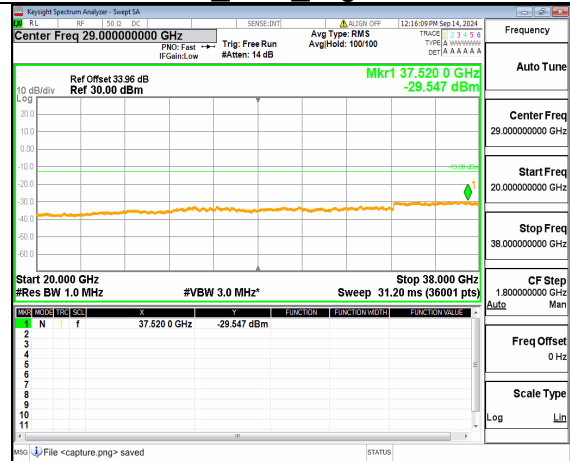
n78(3700-3800MHz) (30MHz-20GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



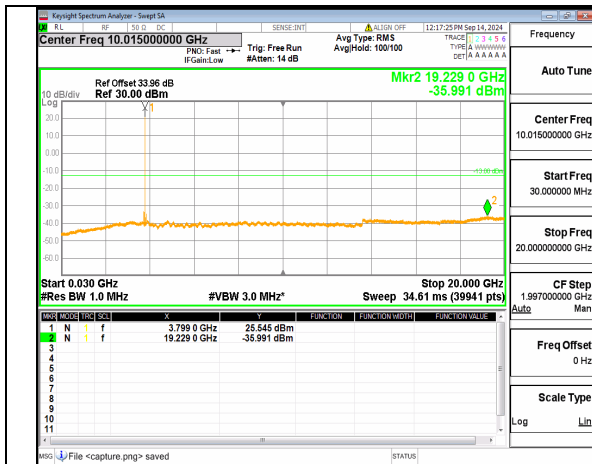
n78(3700-3800MHz) (20GHz-38GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



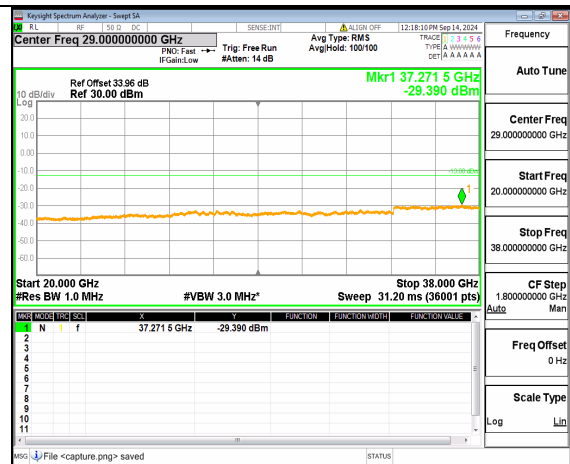
n78(3700-3800MHz) (30MHz-20GHz)
70M DFT-s-OFDM BPSK Inner_1RB_Left
High



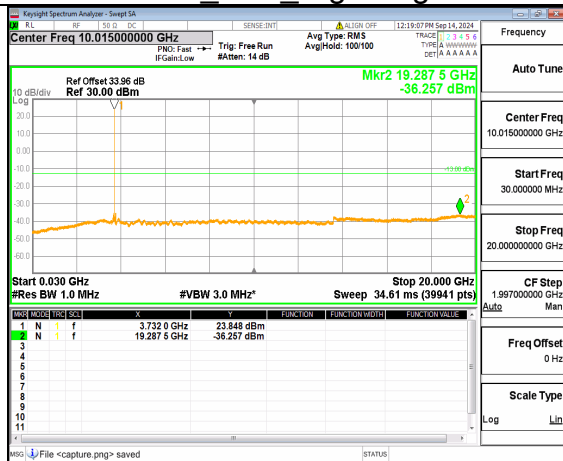
n78(3700-3800MHz) (20GHz-38GHz)
70M DFT-s-OFDM BPSK Inner_1RB_Left
High



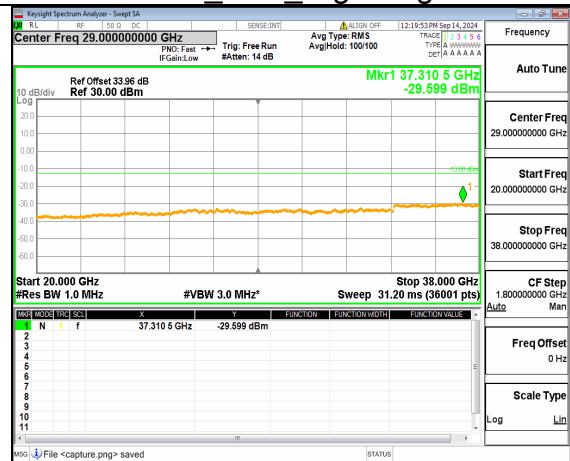
n78(3700-3800MHz) (30MHz-20GHz)
70M DFT-s-OFDM BPSK
Inner_1RB_Right High



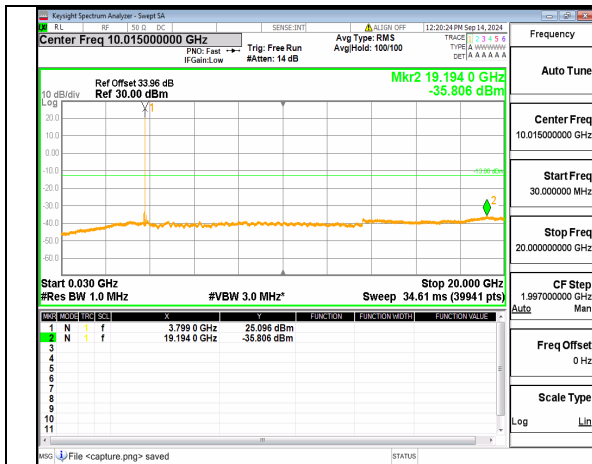
n78(3700-3800MHz) (20GHz-38GHz)
70M DFT-s-OFDM BPSK
Inner_1RB_Right High



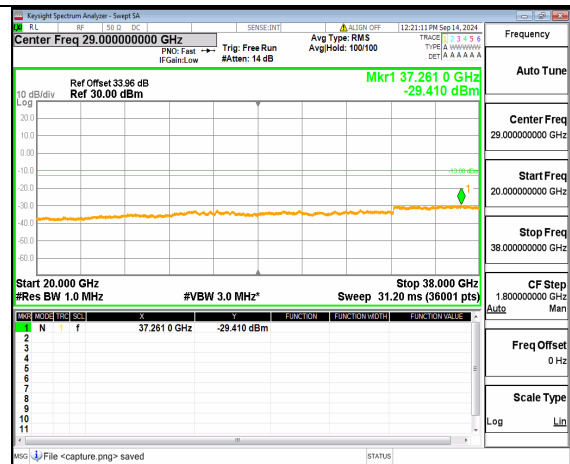
n78(3700-3800MHz) (30MHz-20GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Left High



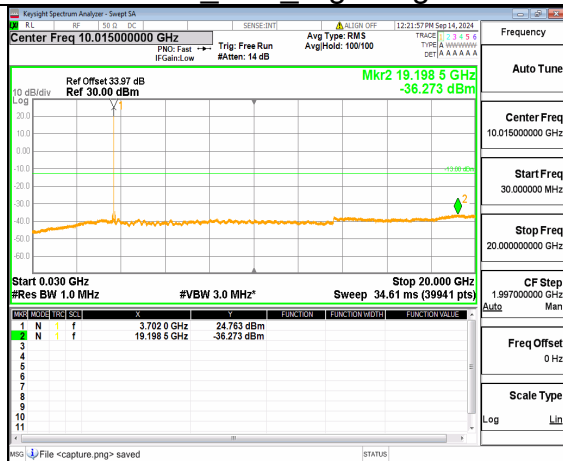
n78(3700-3800MHz) (20GHz-38GHz)
70M DFT-s-OFDM QPSK Inner_1RB_Left
High



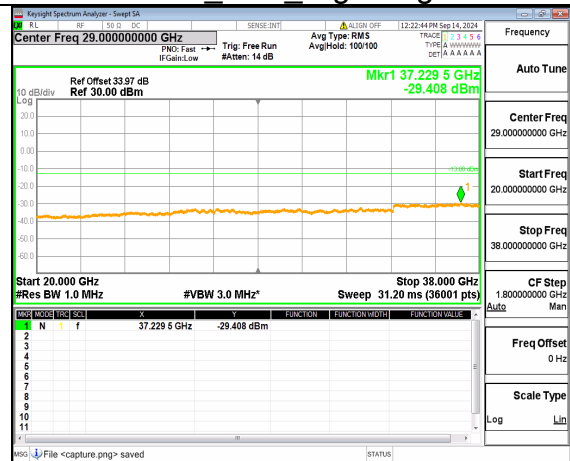
n78(3700-3800MHz) (30MHz-20GHz)
70M DFT-s-OFDM QPSK
Inner_1RB_Right_High



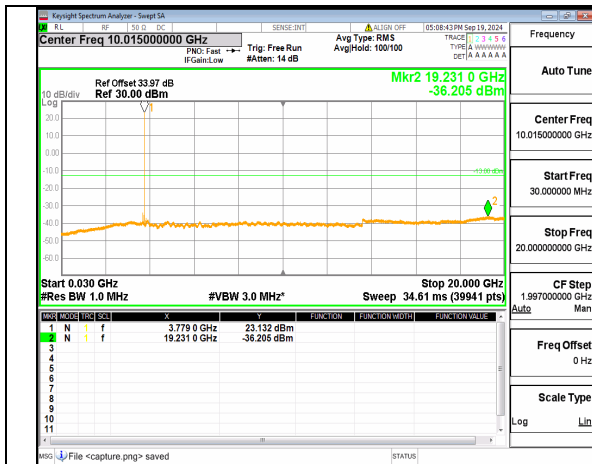
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Inner_1RB_Right_High



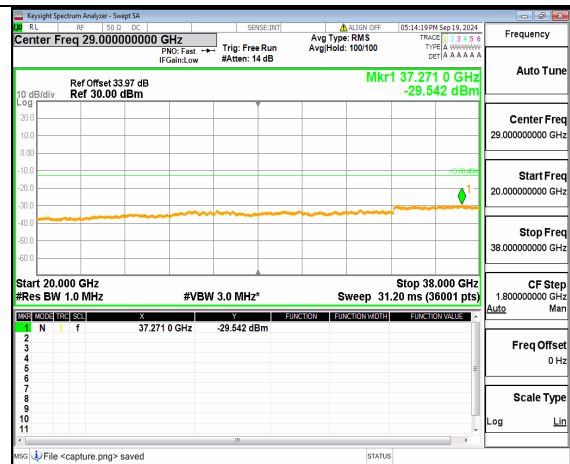
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80M DFT-s-OFDM BPSK Inner_1RB_Left
Low



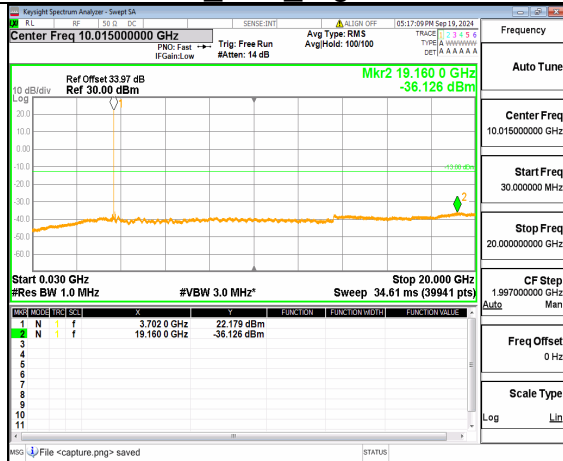
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Low



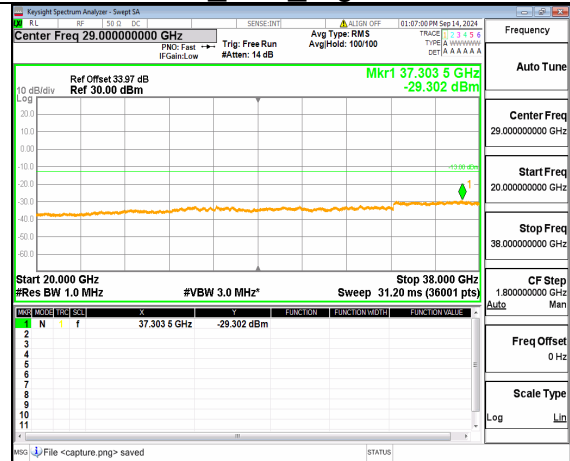
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Inner_1RB_Right Low



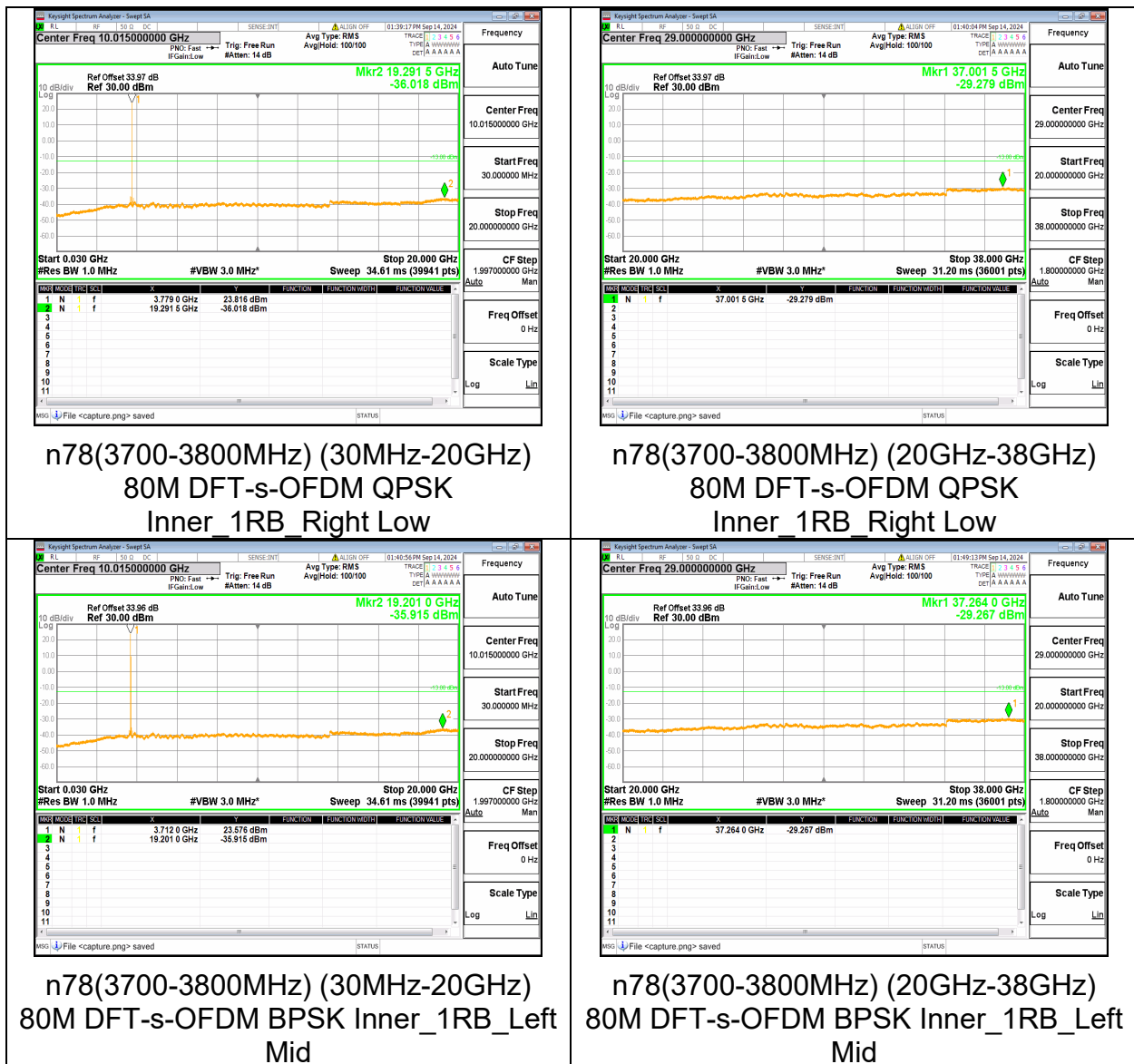
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Inner_1RB_Right Low

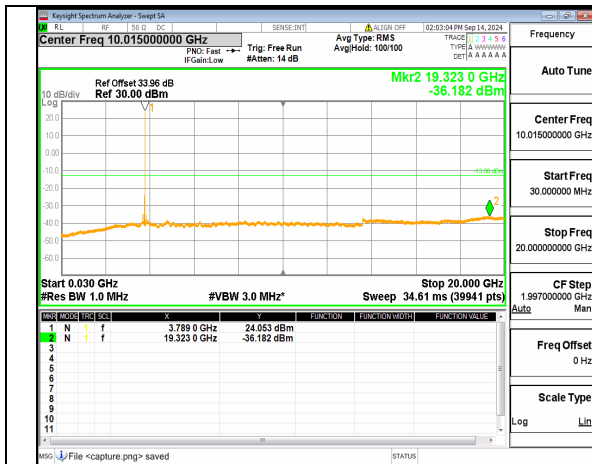


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Inner_1RB_Left Low

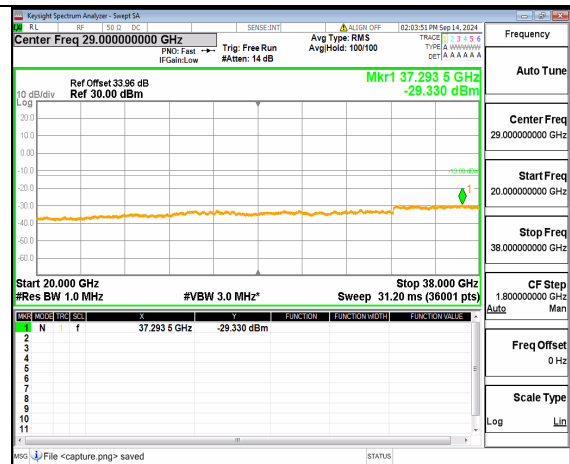


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Low

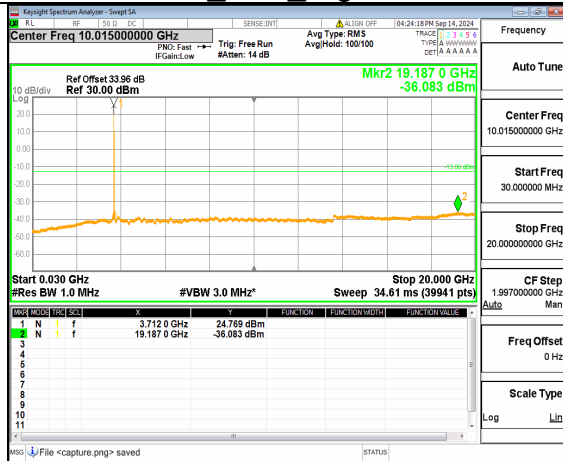




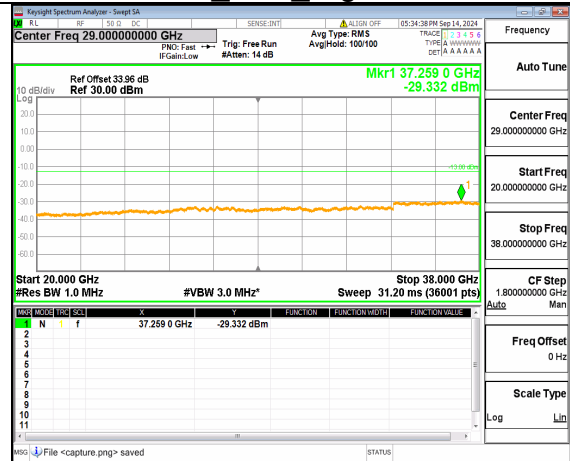
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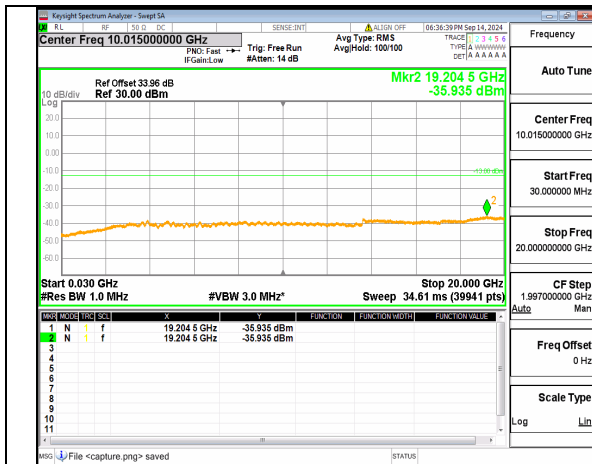
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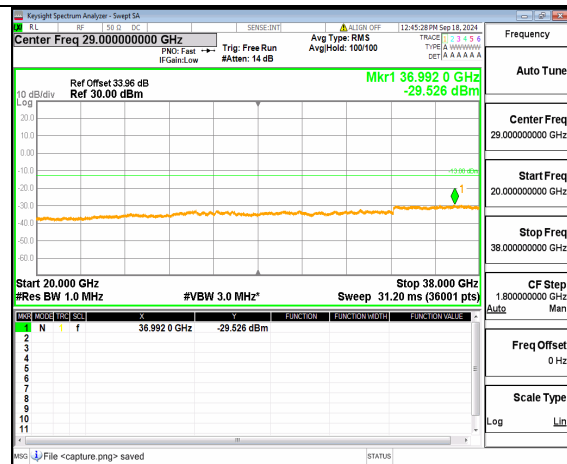
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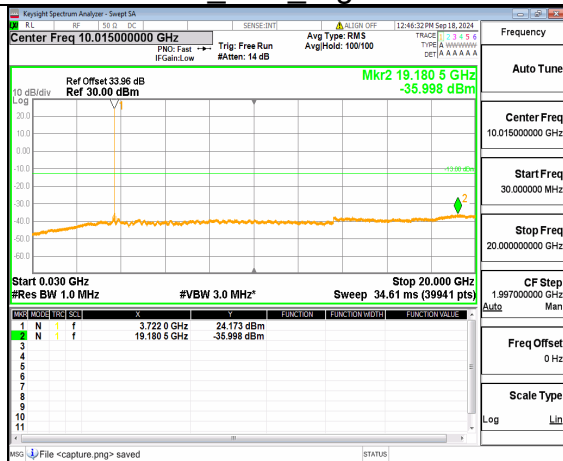
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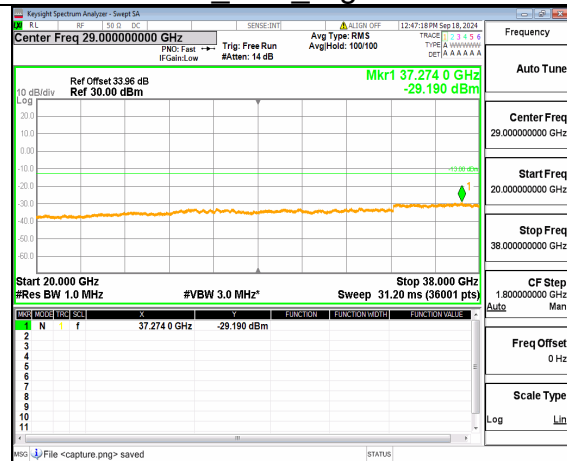
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Inner_1RB_Right Mid



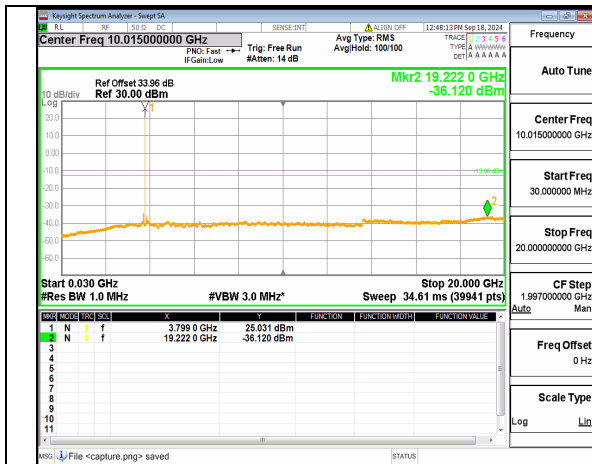
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Inner_1RB_Right Mid



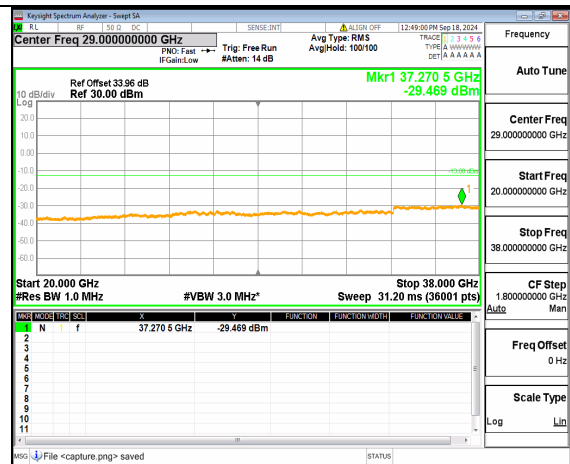
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High



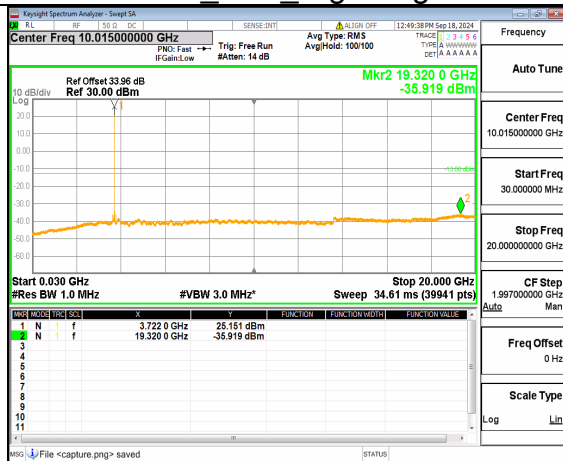
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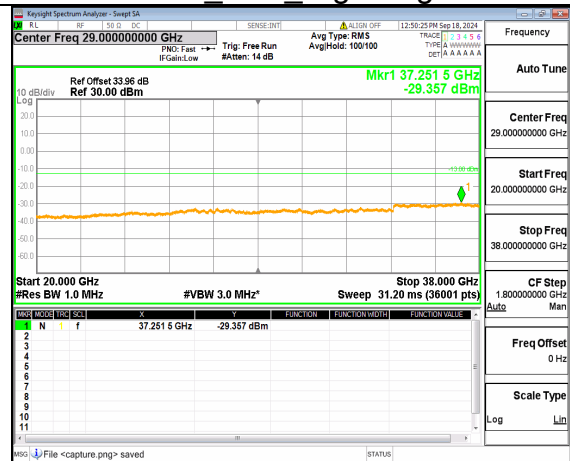
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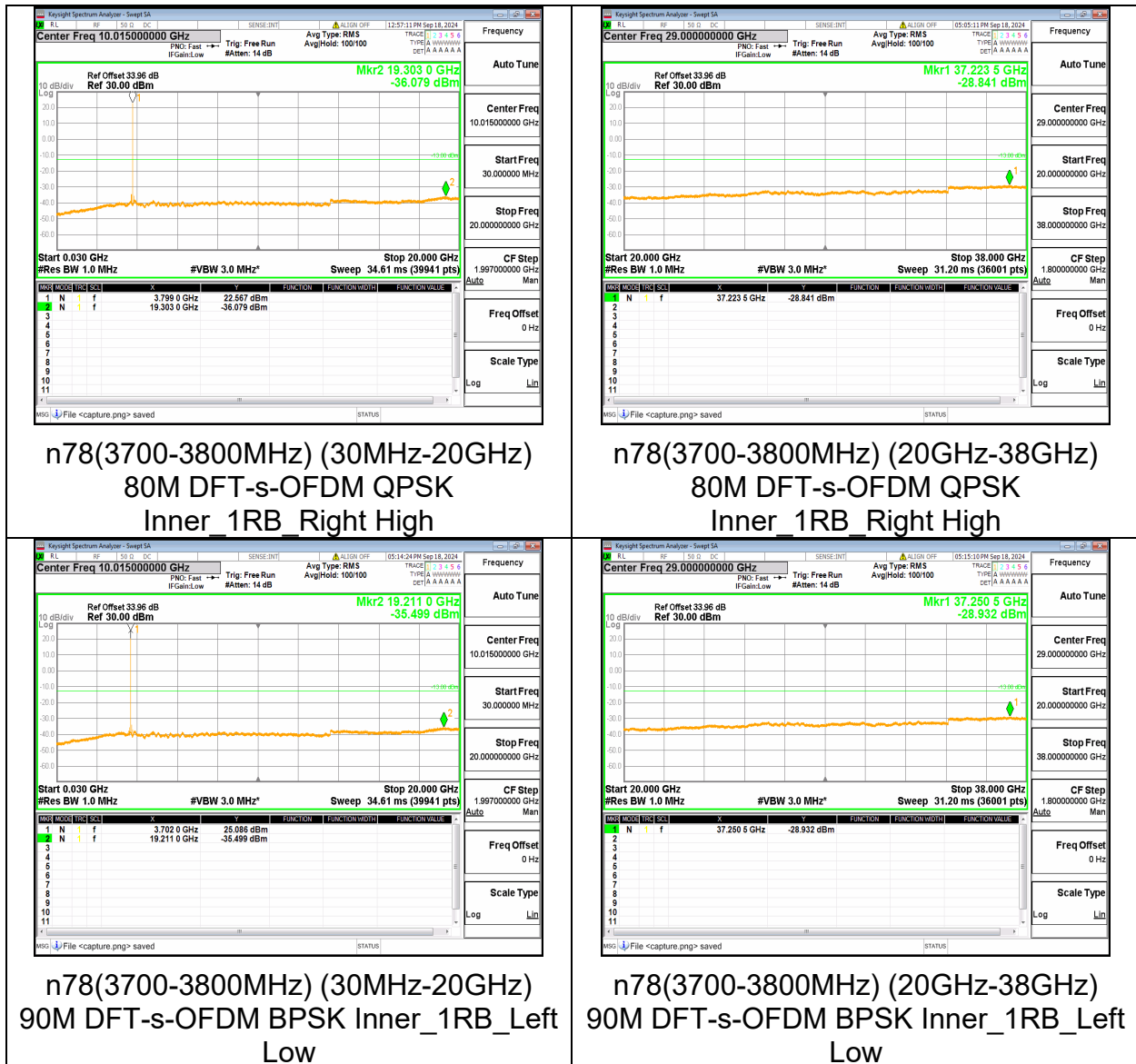
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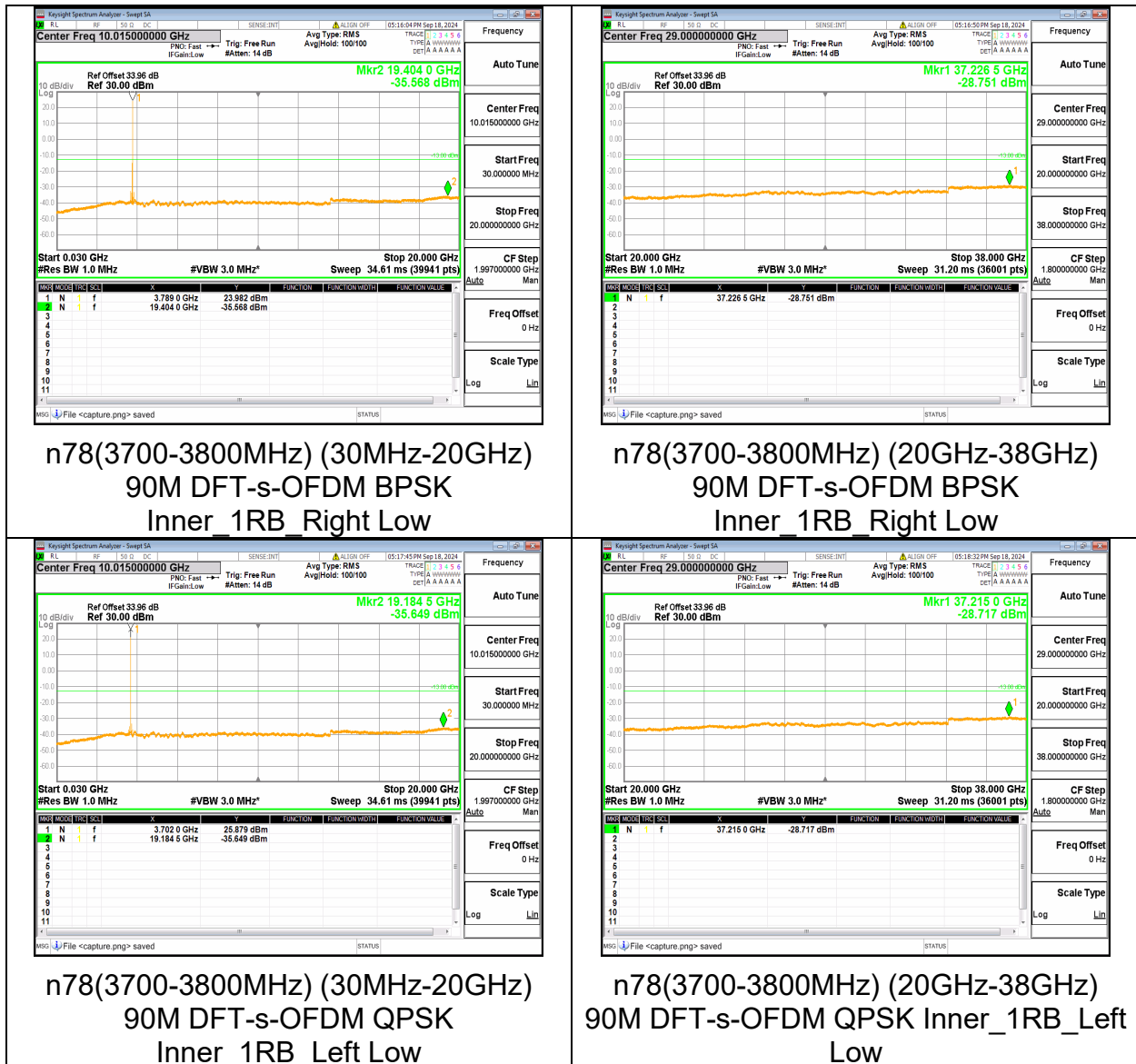


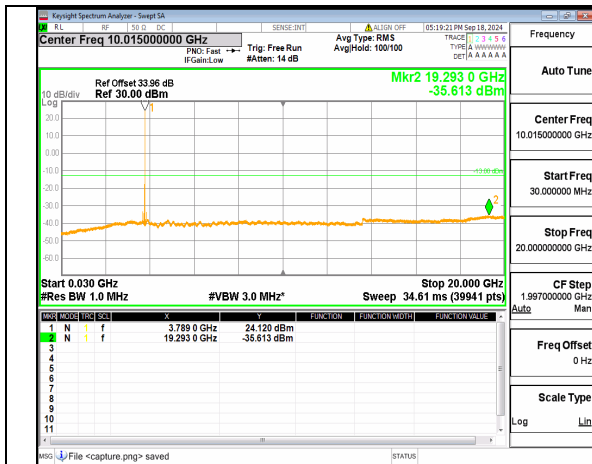
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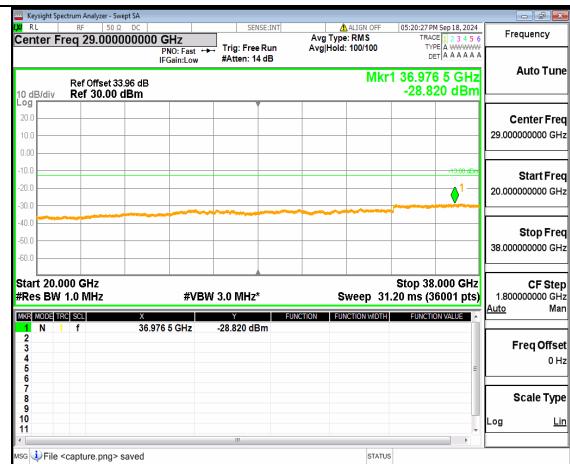
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High



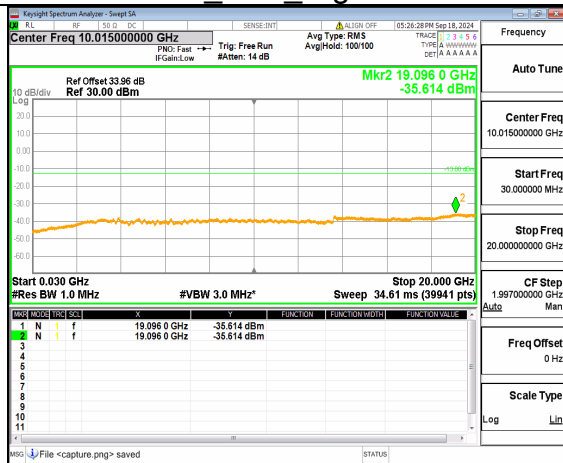




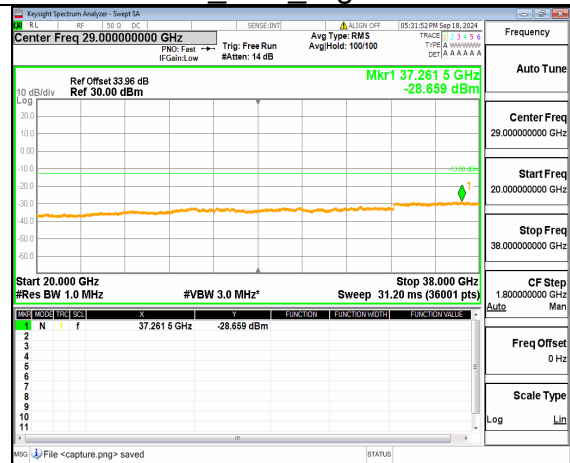
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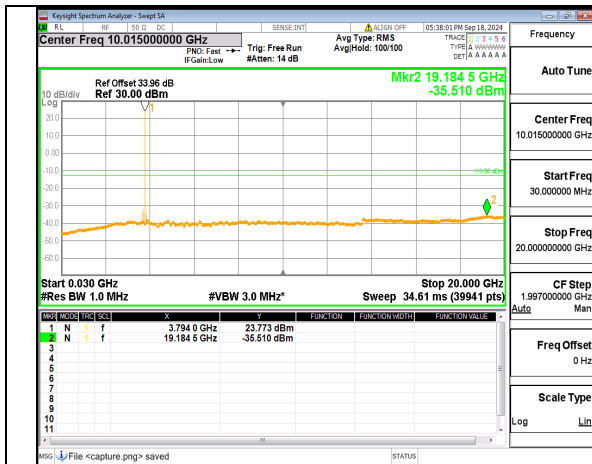
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Inner_1RB_Right Low



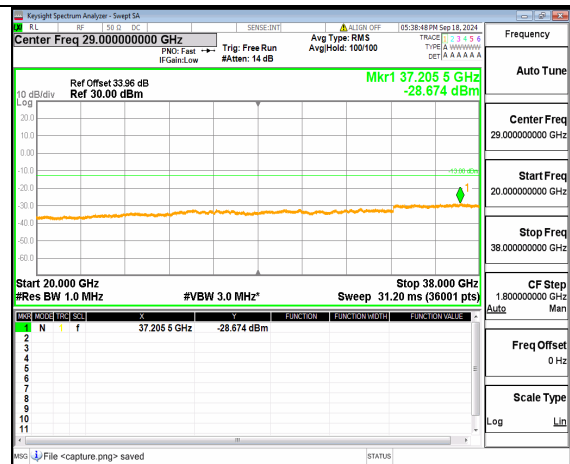
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Mid



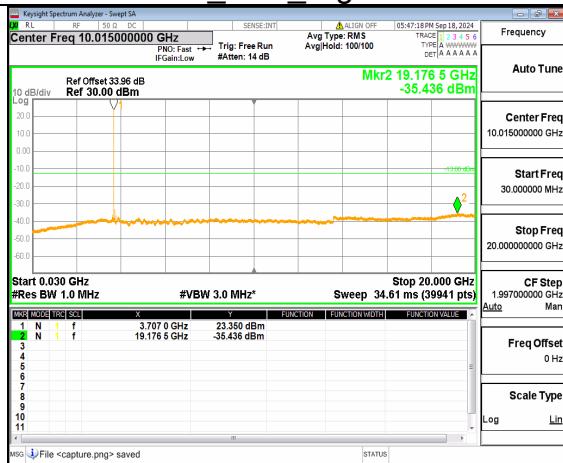
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Mid



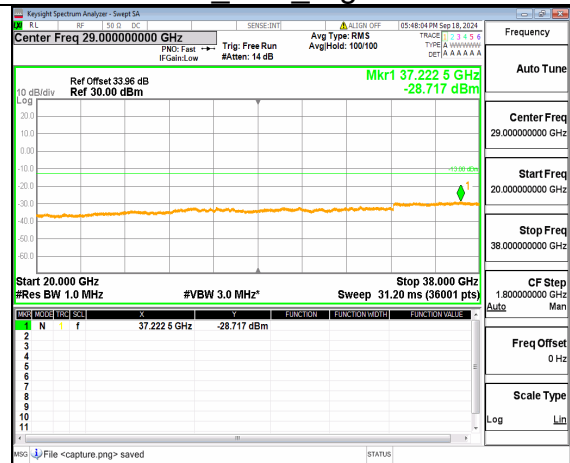
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Inner_1RB_Right Mid



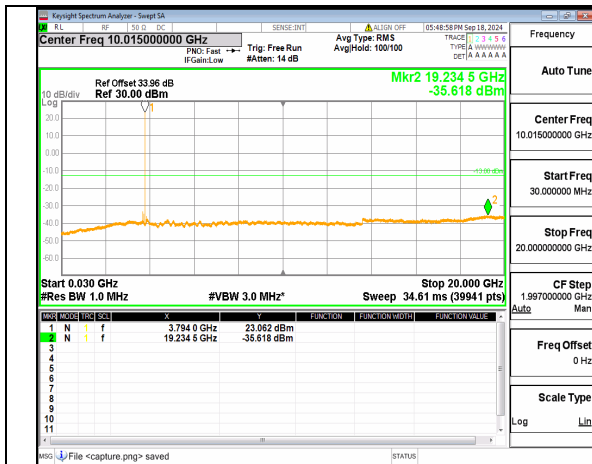
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Inner_1RB_Right Mid



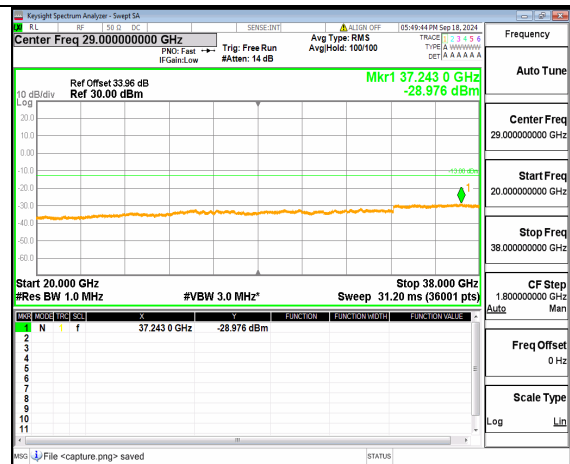
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Inner_1RB_Left Mid



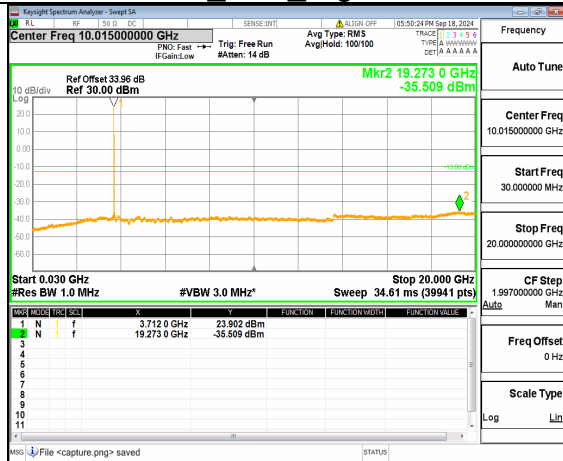
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Mid



n78(3700-3800MHz) (30MHz-20GHz)
90M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



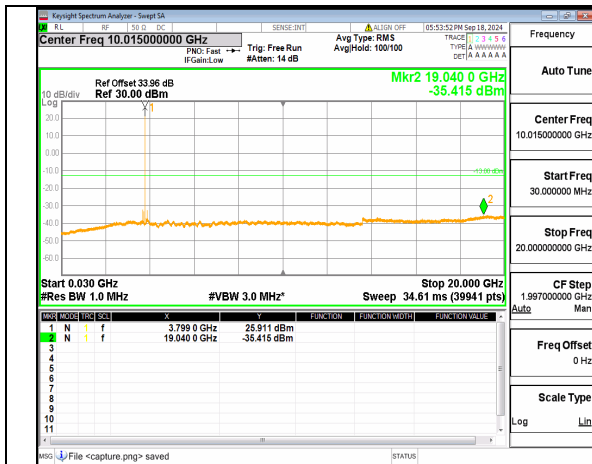
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Inner_1RB_Right Mid



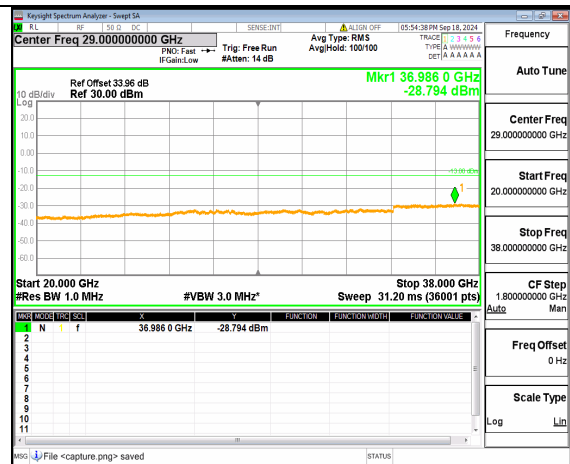
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High



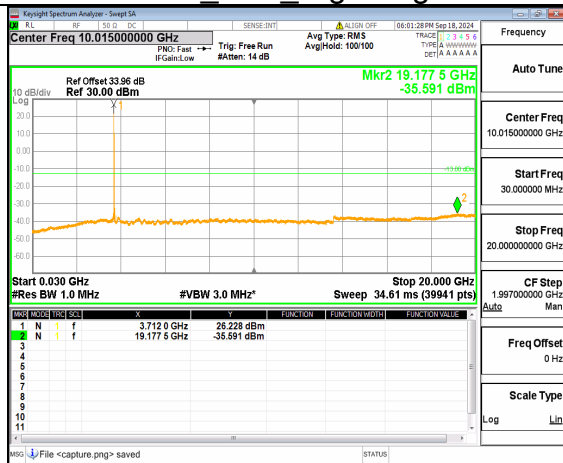
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High



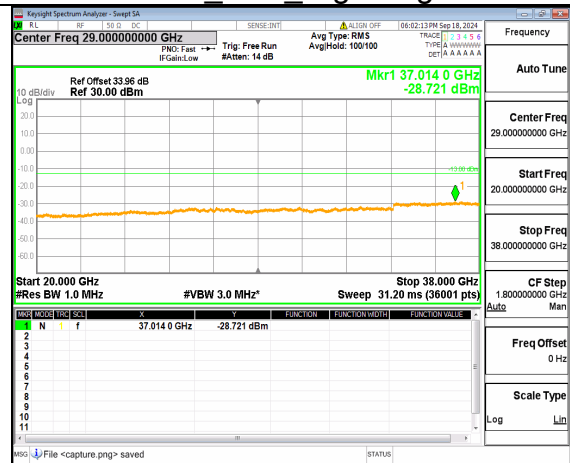
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Inner_1RB_Right High



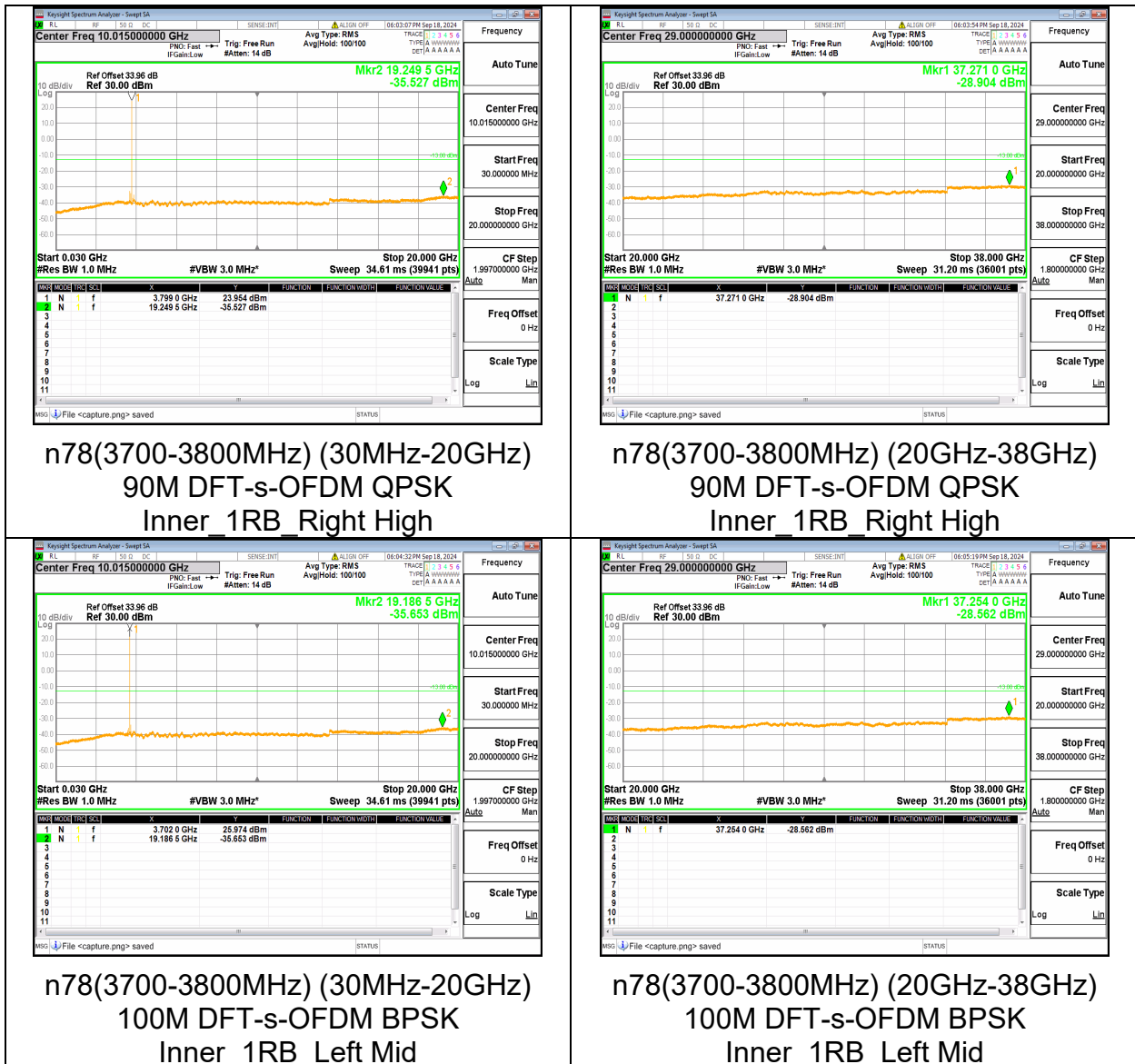
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Inner_1RB_Right High

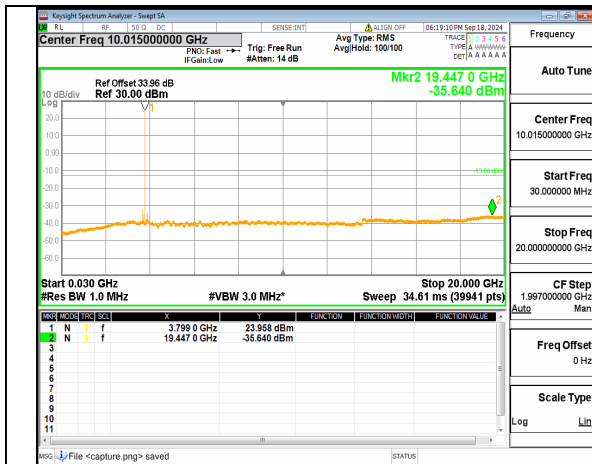


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Inner_1RB_Left High

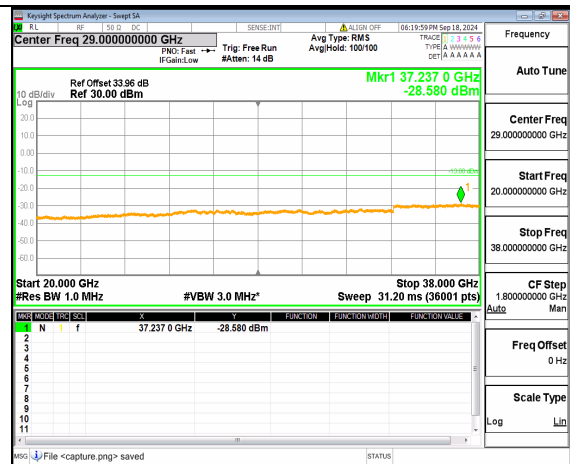


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High

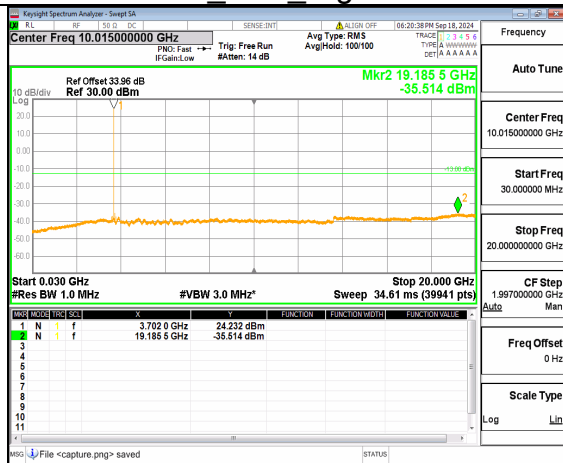




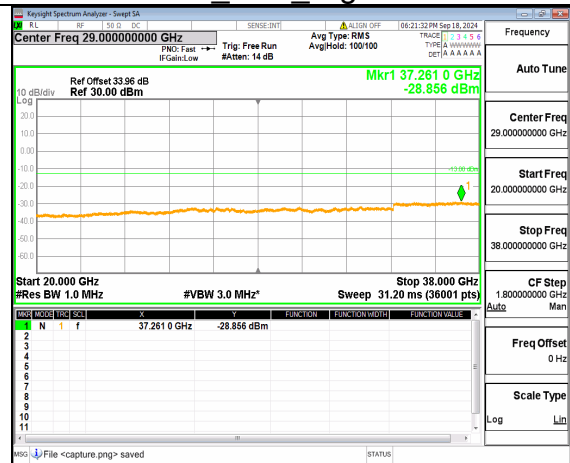
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Inner_1RB_Right Mid



n78(3700-3800MHz) (20GHz-38GHz)
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Inner_1RB_Right Mid



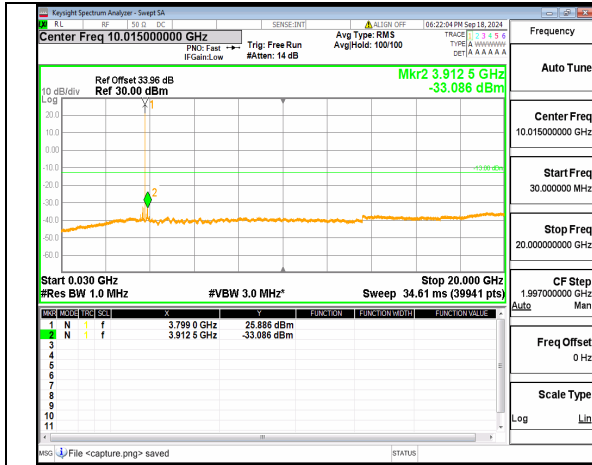
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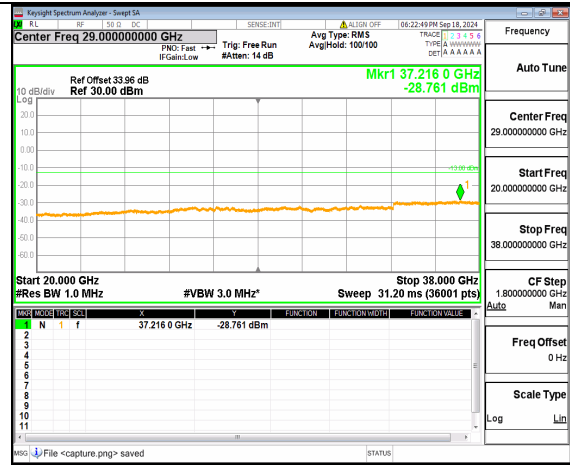
n78(3700-3800MHz) (20GHz-38GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Left Mid



REPORT No.: SZ24070315W12



n78(3700-3800MHz) (30MHz-20GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



n78(3700-3800MHz) (20GHz-38GHz)
100M DFT-s-OFDM QPSK
Inner_1RB_Right Mid



2.6. Band Edge

2.6.1. Requirement

n2, 25

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, 26(824-849MHz)

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.

n7, 38, 41

According to FCC section 27.53(m) (4), for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.



n12, 71

According to FCC section 27.53(g), 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. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

n26 (814-824MHz)

According to FCC section 90.691(a) (2), for any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

n30

According to FCC section 27.53(a) (4), for mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;
- (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

n48

Part 96.41(e)(1)(i)

For channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower



SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz.

Part 96.41(e)(1)(ii)

For channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz.

Part 96.41(e)(2)

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

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 $43 + 10 \log_{10}(P)$ 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.

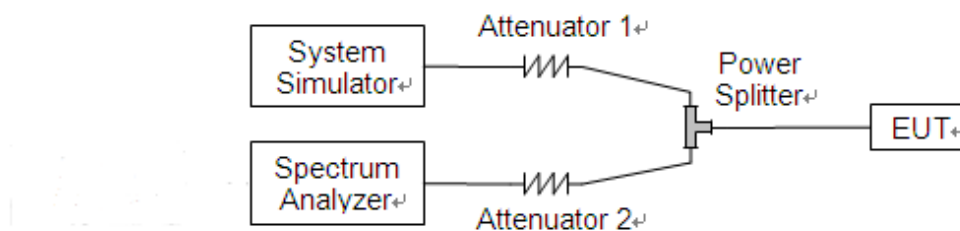
n77 (3700-3980MHz)

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 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.

2.6.3.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.

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.

