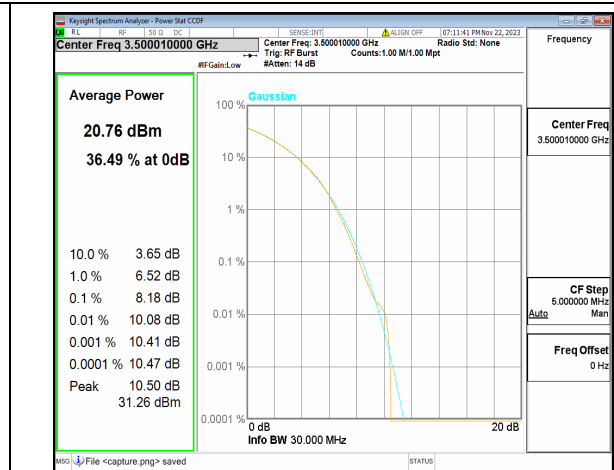
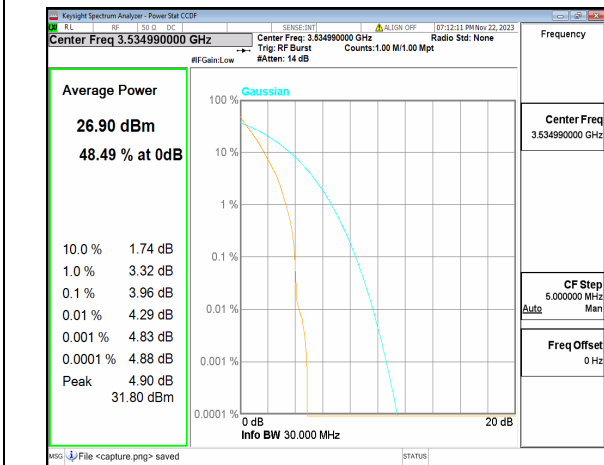


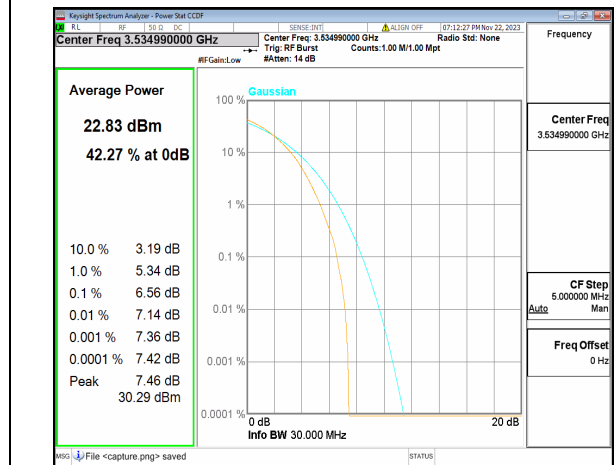
n77(3450-3550MHz) 30M CP-OFDM QPSK
Outer_Full Mid



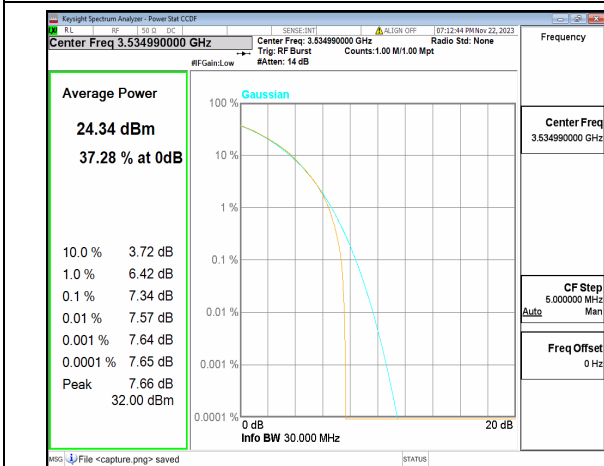
n77(3450-3550MHz) 30M CP-OFDM 256QAM
Outer_Full Mid



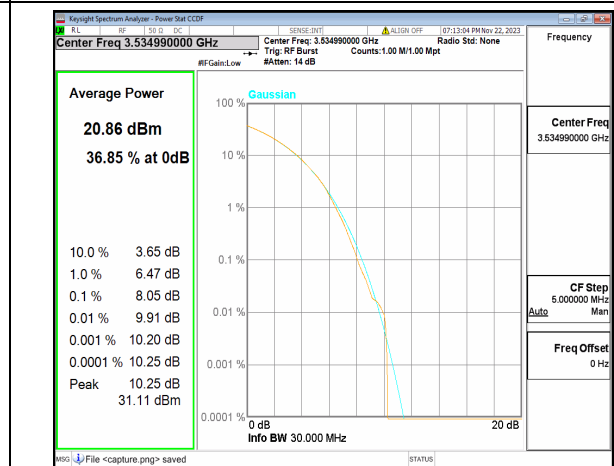
n77(3450-3550MHz) 30M DFT-s-OFDM BPSK
Outer_Full High



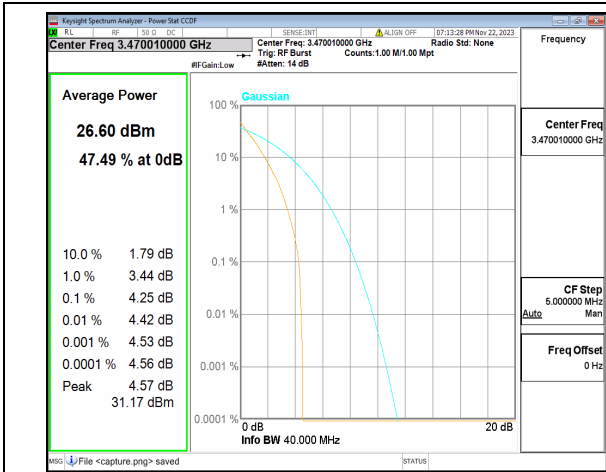
n77(3450-3550MHz) 30M DFT-s-OFDM
256QAM Outer_Full High



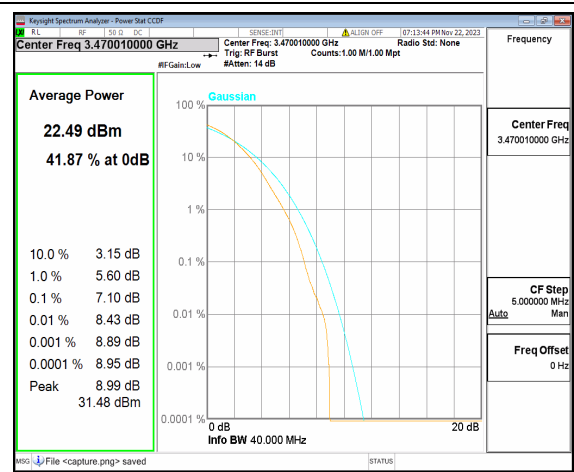
n77(3450-3550MHz) 30M CP-OFDM QPSK
Outer_Full High



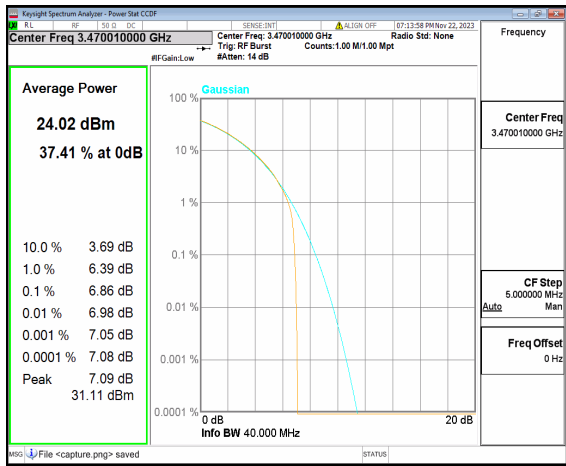
n77(3450-3550MHz) 30M CP-OFDM 256QAM
Outer_Full High



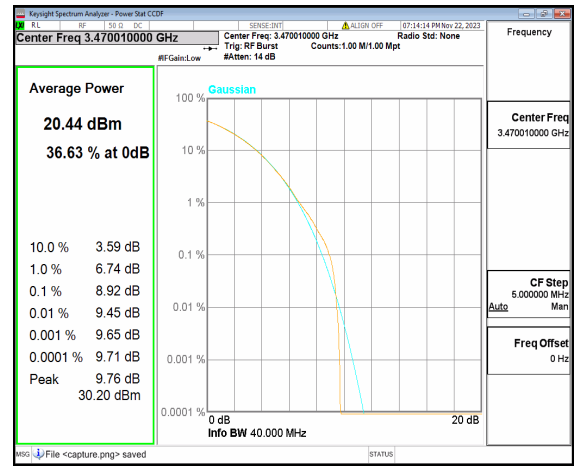
n77(3450-3550MHz) 40M DFT-s-OFDM BPSK
Outer_Full Low



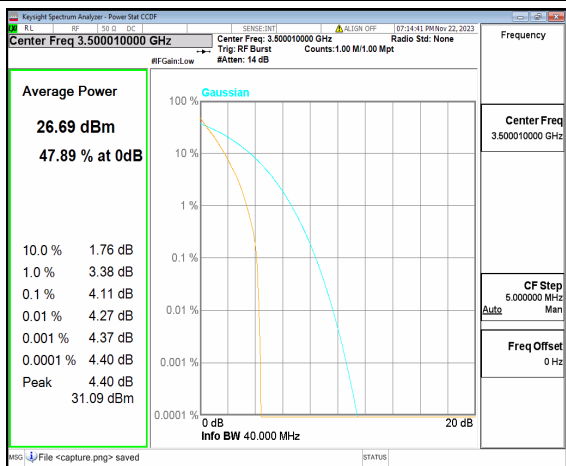
n77(3450-3550MHz) 40M DFT-s-OFDM
256QAM Outer_Full Low



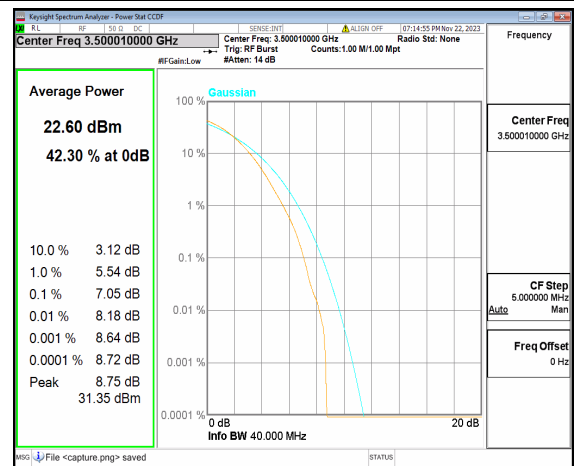
n77(3450-3550MHz) 40M CP-OFDM QPSK
Outer_Full Low



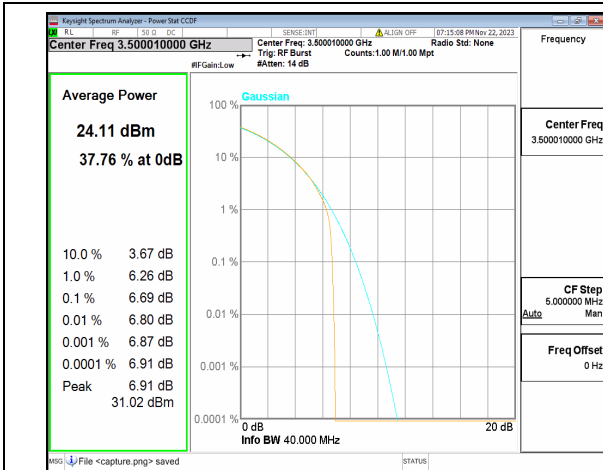
n77(3450-3550MHz) 40M CP-OFDM 256QAM
Outer_Full Low



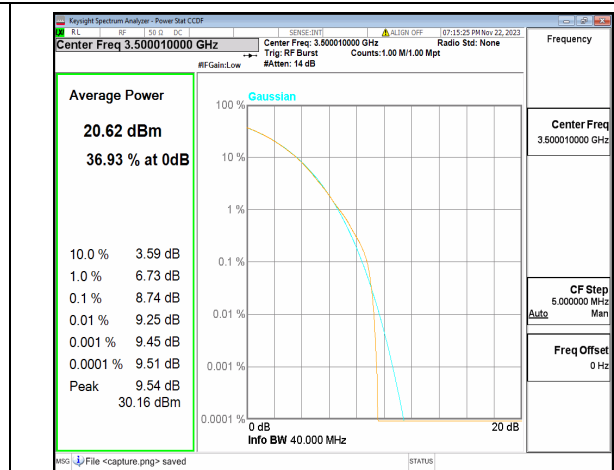
n77(3450-3550MHz) 40M DFT-s-OFDM BPSK
Outer_Full Mid



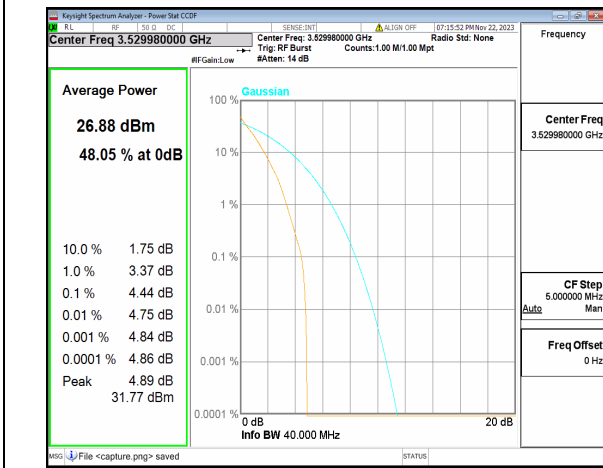
n77(3450-3550MHz) 40M DFT-s-OFDM
256QAM Outer_Full Mid



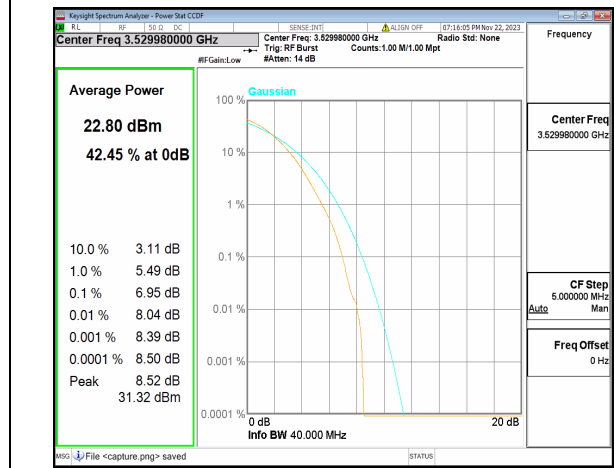
n77(3450-3550MHz) 40M CP-OFDM QPSK
Outer_Full Mid



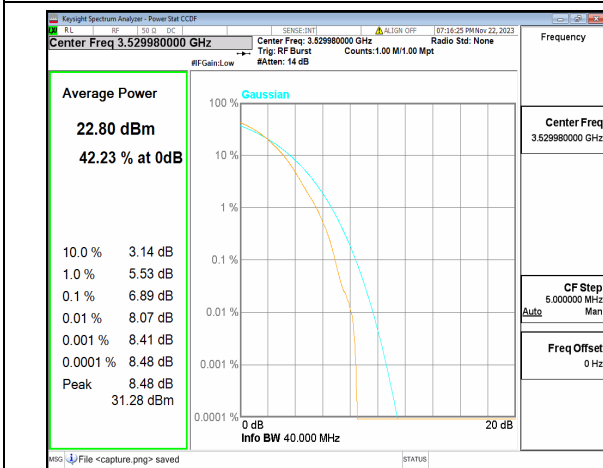
n77(3450-3550MHz) 40M CP-OFDM 256QAM
Outer_Full Mid



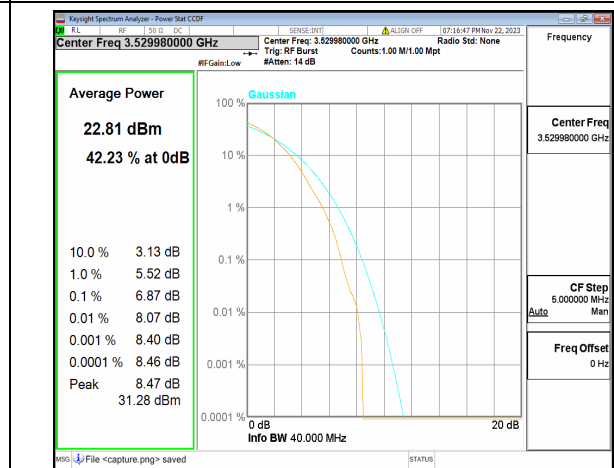
n77(3450-3550MHz) 40M DFT-s-OFDM BPSK
Outer_Full High



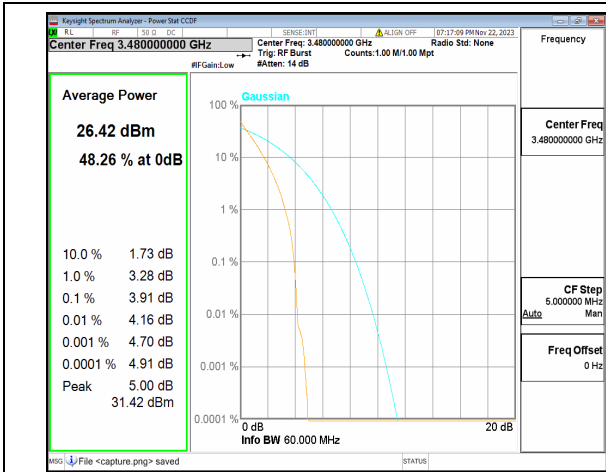
n77(3450-3550MHz) 40M DFT-s-OFDM
256QAM Outer_Full High



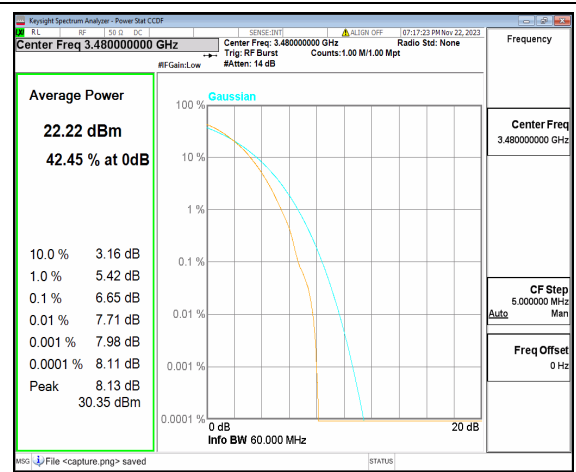
n77(3450-3550MHz) 40M CP-OFDM QPSK
Outer_Full High



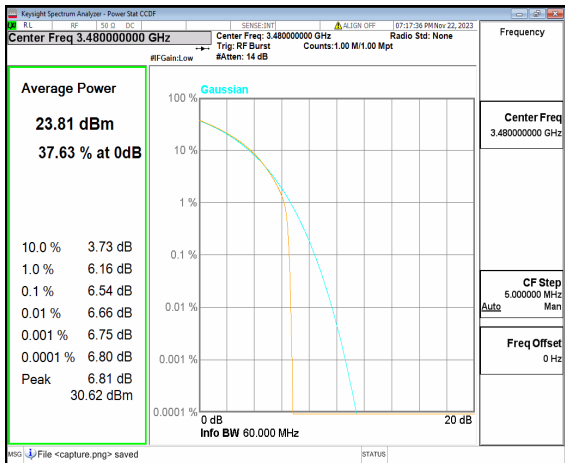
n77(3450-3550MHz) 40M CP-OFDM 256QAM
Outer_Full High



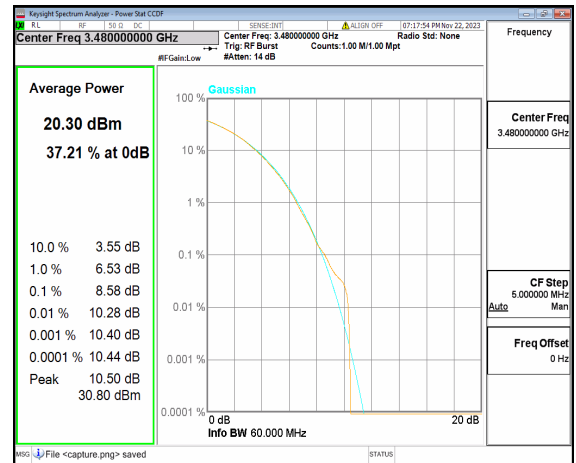
n77(3450-3550MHz) 60M DFT-s-OFDM BPSK
Outer_Full Low



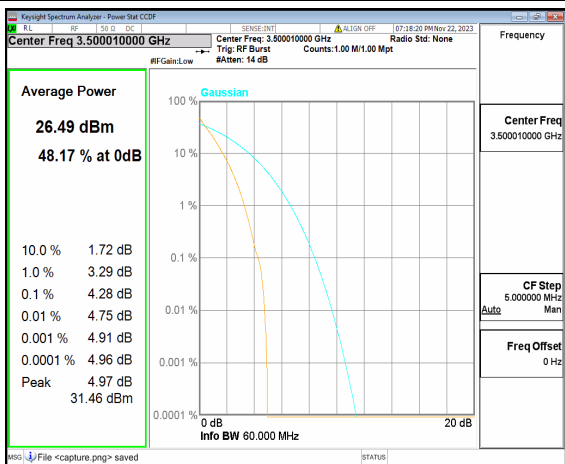
n77(3450-3550MHz) 60M DFT-s-OFDM
256QAM Outer_Full Low



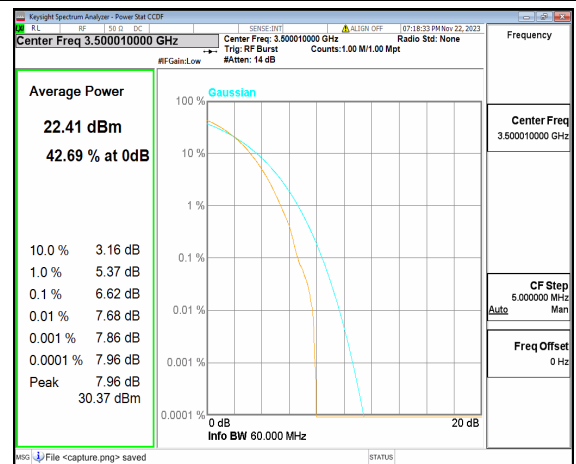
n77(3450-3550MHz) 60M CP-OFDM QPSK
Outer_Full Low



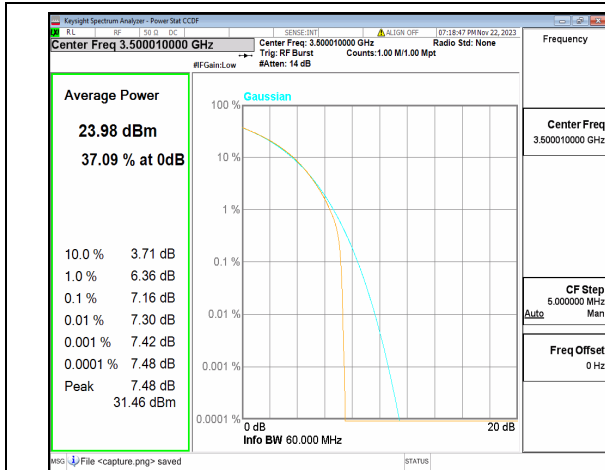
n77(3450-3550MHz) 60M CP-OFDM 256QAM
Outer_Full Low



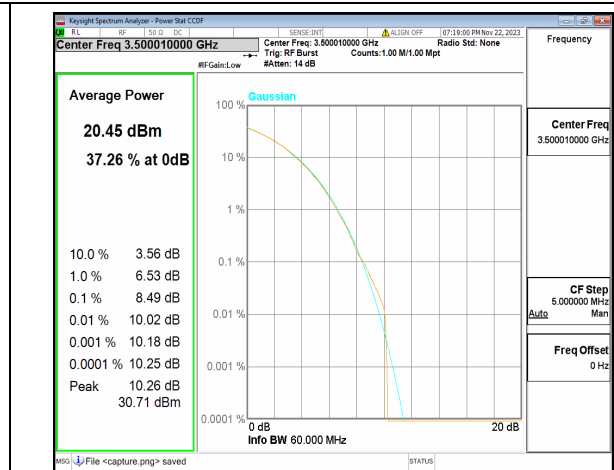
n77(3450-3550MHz) 60M DFT-s-OFDM BPSK
Outer_Full Mid



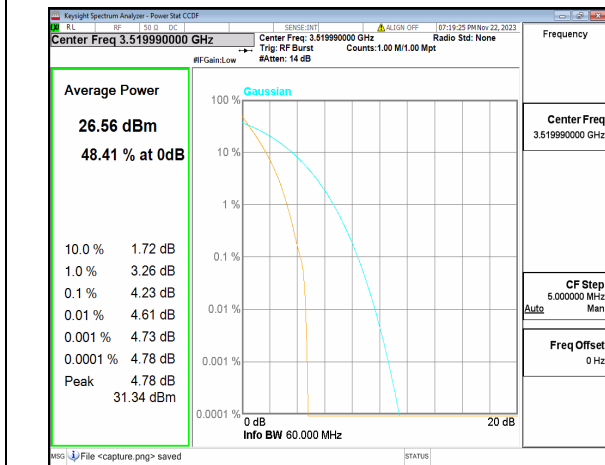
n77(3450-3550MHz) 60M DFT-s-OFDM
256QAM Outer_Full Mid



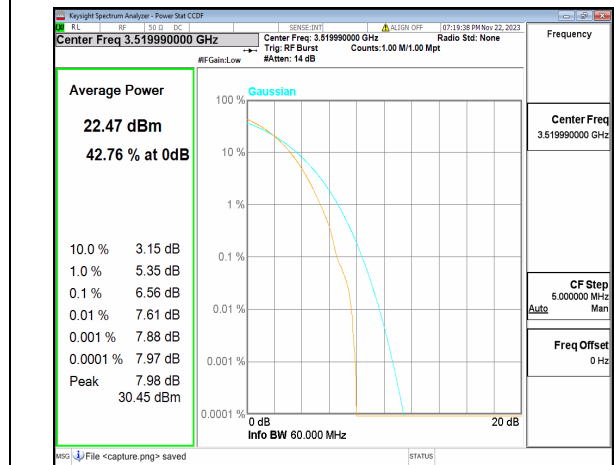
n77(3450-3550MHz) 60M CP-OFDM QPSK
Outer_Full Mid



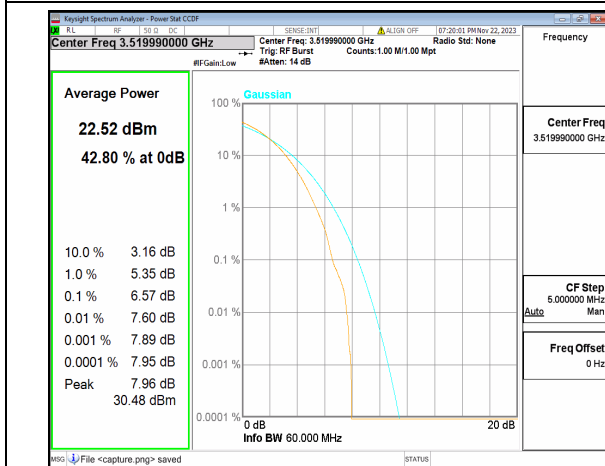
n77(3450-3550MHz) 60M CP-OFDM 256QAM
Outer_Full Mid



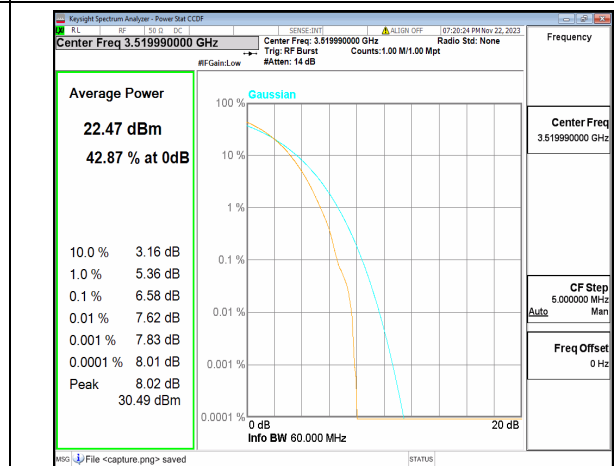
n77(3450-3550MHz) 60M DFT-s-OFDM BPSK
Outer_Full High



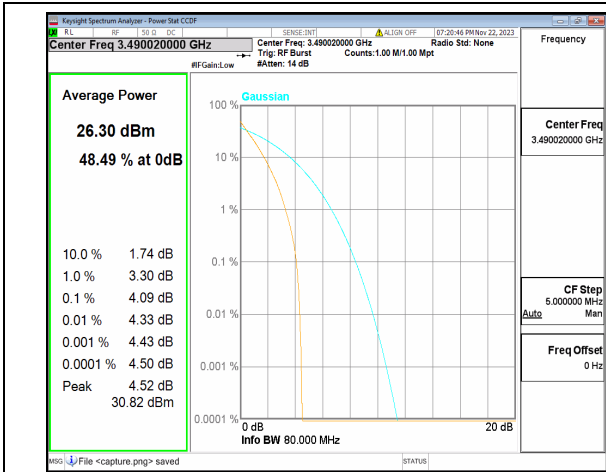
n77(3450-3550MHz) 60M DFT-s-OFDM
256QAM Outer_Full High



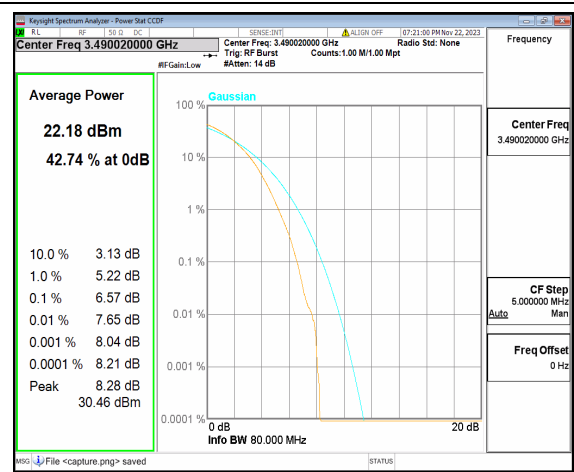
n77(3450-3550MHz) 60M CP-OFDM QPSK
Outer_Full High



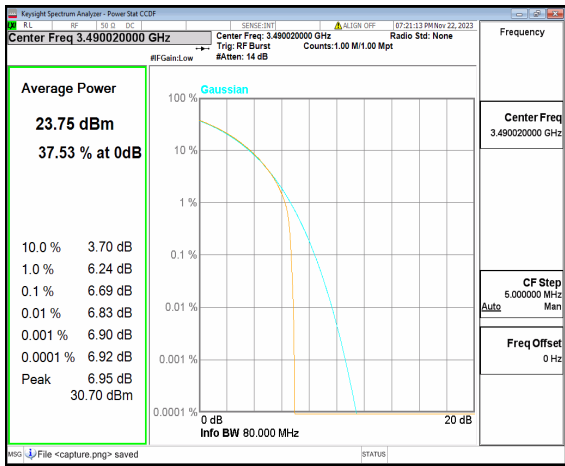
n77(3450-3550MHz) 60M CP-OFDM 256QAM
Outer_Full High



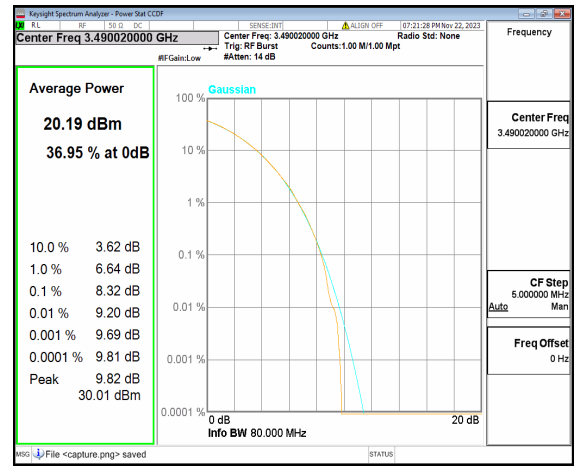
n77(3450-3550MHz) 80M DFT-s-OFDM BPSK
Outer_Full Low



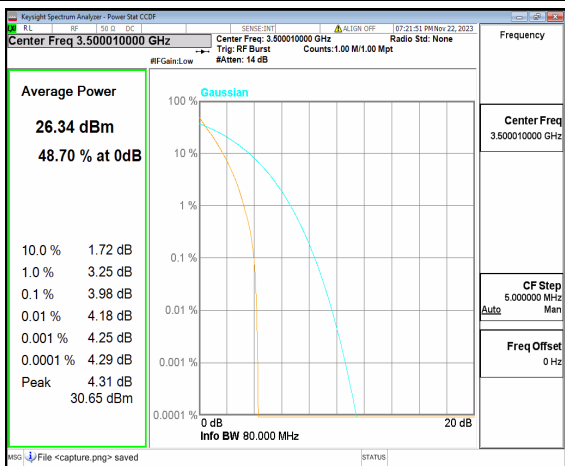
n77(3450-3550MHz) 80M DFT-s-OFDM
256QAM Outer_Full Low



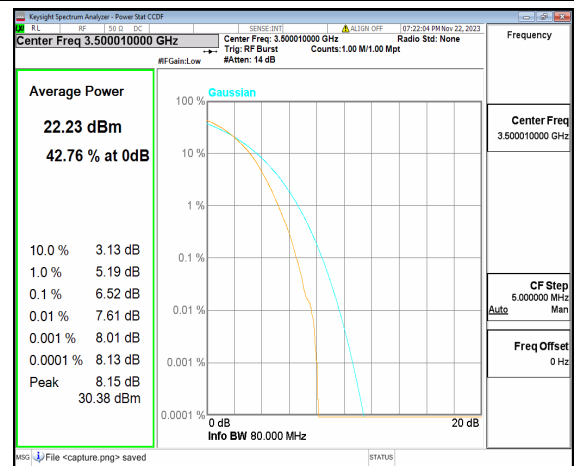
n77(3450-3550MHz) 80M CP-OFDM QPSK
Outer_Full Low



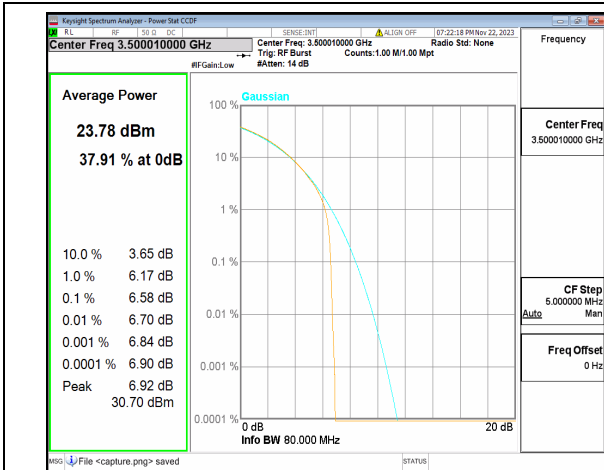
n77(3450-3550MHz) 80M CP-OFDM 256QAM
Outer_Full Low



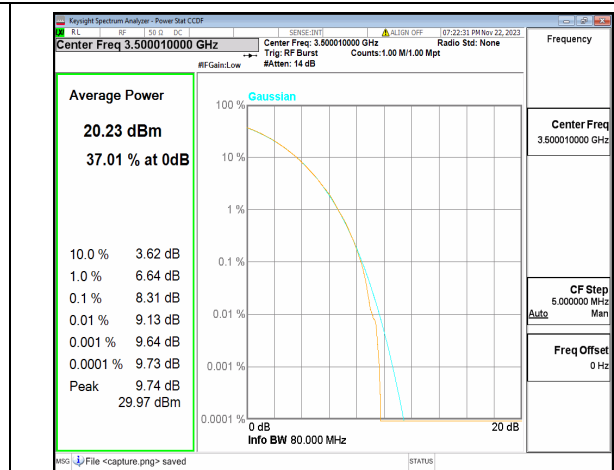
n77(3450-3550MHz) 80M DFT-s-OFDM BPSK
Outer_Full Mid



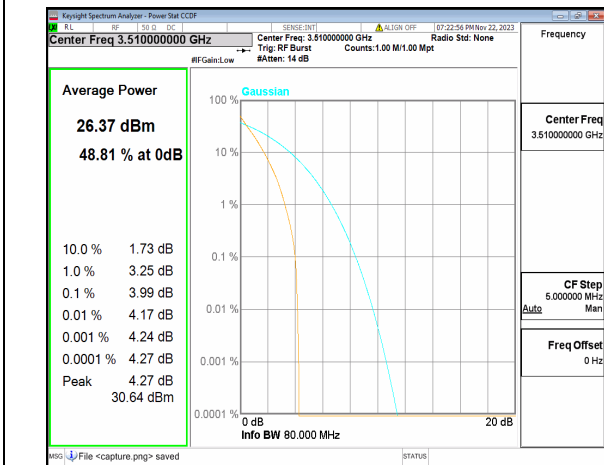
n77(3450-3550MHz) 80M DFT-s-OFDM
256QAM Outer_Full Mid



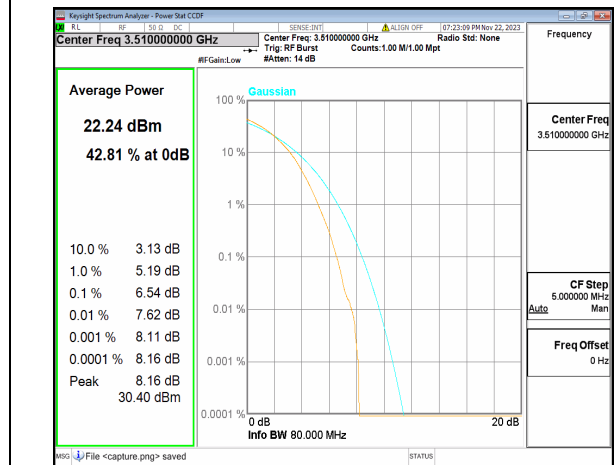
n77(3450-3550MHz) 80M CP-OFDM QPSK Outer_Full Mid



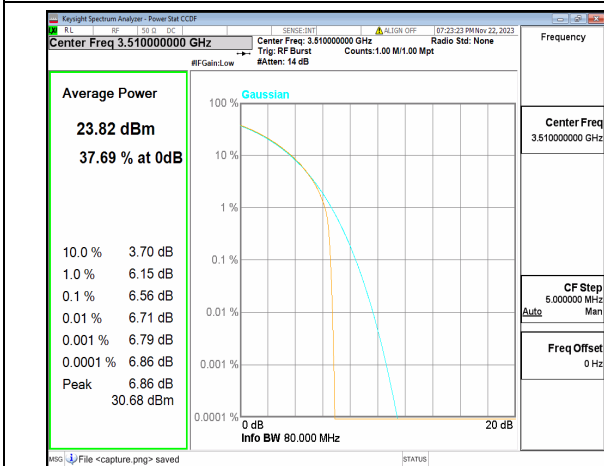
n77(3450-3550MHz) 80M CP-OFDM 256QAM Outer_Full Mid



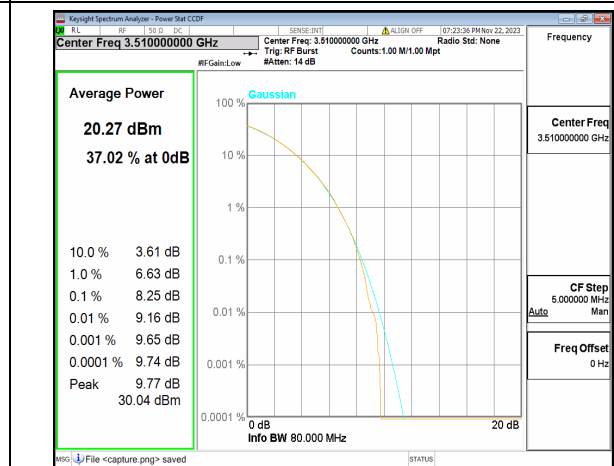
n77(3450-3550MHz) 80M DFT-s-OFDM BPSK Outer_Full High



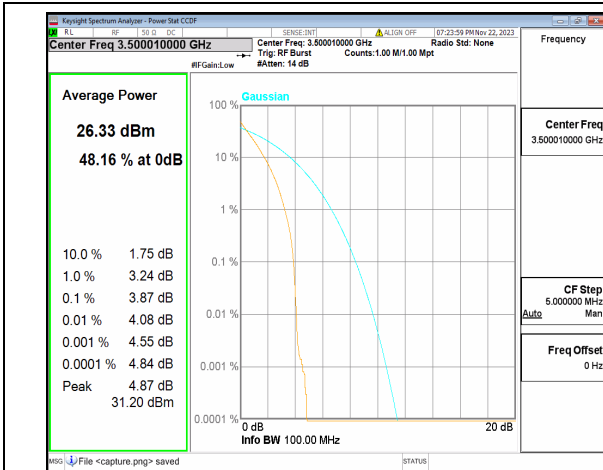
n77(3450-3550MHz) 80M DFT-s-OFDM 256QAM Outer_Full High



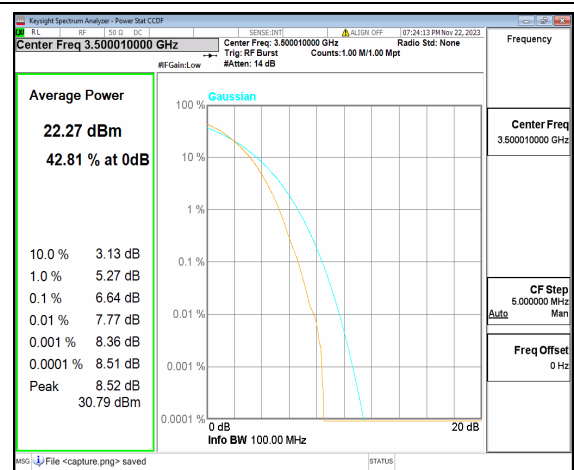
n77(3450-3550MHz) 80M CP-OFDM QPSK Outer_Full High



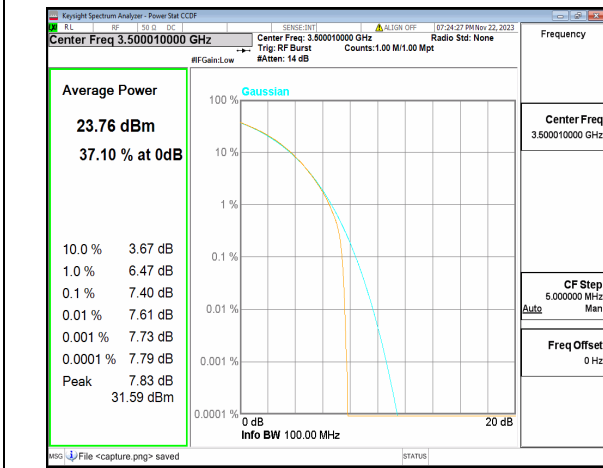
n77(3450-3550MHz) 80M CP-OFDM 256QAM Outer_Full High



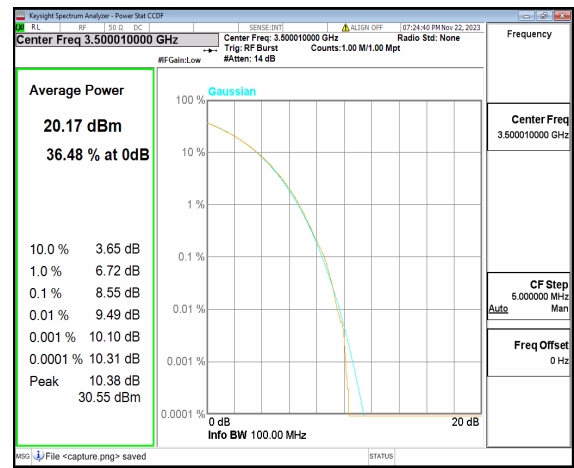
n77(3450-3550MHz) 100M DFT-s-OFDM BPSK Outer_Full Mid



n77(3450-3550MHz) 100M DFT-s-OFDM 256QAM Outer_Full Mid



n77(3450-3550MHz) 100M CP-OFDM QPSK Outer_Full Mid



n77(3450-3550MHz) 100M CP-OFDM 256QAM Outer_Full Mid



Band	SCS (KHz)	BW (MHz)	ARFCN	Modulation	RB	Result (dB)	Limit (dB)	Verdict
n77(3700-3980MHz)	30	20	647334	DFT-s-OFDM PI/2 BPSK	50/0	4.58	13	PASS
n77(3700-3980MHz)	30	20	647334	DFT-s-OFDM 256QAM	50/0	6.52	13	PASS
n77(3700-3980MHz)	30	20	647334	CP-OFDM QPSK	51/0	7.17	13	PASS
n77(3700-3980MHz)	30	20	647334	CP-OFDM 256QAM	51/0	7.99	13	PASS
n77(3700-3980MHz)	30	20	656000	DFT-s-OFDM PI/2 BPSK	50/0	4.16	13	PASS
n77(3700-3980MHz)	30	20	656000	DFT-s-OFDM 256QAM	50/0	6.32	13	PASS
n77(3700-3980MHz)	30	20	656000	CP-OFDM QPSK	51/0	6.69	13	PASS
n77(3700-3980MHz)	30	20	656000	CP-OFDM 256QAM	51/0	7.9	13	PASS
n77(3700-3980MHz)	30	20	664666	DFT-s-OFDM PI/2 BPSK	50/0	3.72	13	PASS
n77(3700-3980MHz)	30	20	664666	DFT-s-OFDM 256QAM	50/0	6.38	13	PASS
n77(3700-3980MHz)	30	20	664666	CP-OFDM QPSK	51/0	6.69	13	PASS
n77(3700-3980MHz)	30	20	664666	CP-OFDM 256QAM	51/0	7.89	13	PASS
n77(3700-3980MHz)	30	30	647668	DFT-s-OFDM PI/2 BPSK	75/0	4.37	13	PASS
n77(3700-3980MHz)	30	30	647668	DFT-s-OFDM 256QAM	75/0	6.49	13	PASS
n77(3700-3980MHz)	30	30	647668	CP-OFDM QPSK	78/0	7.15	13	PASS
n77(3700-3980MHz)	30	30	647668	CP-OFDM 256QAM	78/0	7.89	13	PASS
n77(3700-3980MHz)	30	30	656000	DFT-s-OFDM PI/2 BPSK	75/0	4.08	13	PASS
n77(3700-3980MHz)	30	30	656000	DFT-s-OFDM 256QAM	75/0	6.36	13	PASS
n77(3700-3980MHz)	30	30	656000	CP-OFDM QPSK	78/0	6.85	13	PASS



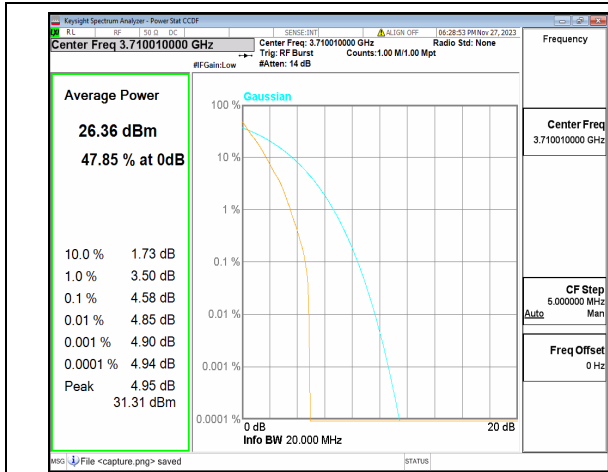
n77(3700-3980MHz)	30	30	656000	CP-OFDM 256QAM	78/0	7.84	13	PASS
n77(3700-3980MHz)	30	30	664332	DFT-s-OFDM PI/2 BPSK	75/0	3.69	13	PASS
n77(3700-3980MHz)	30	30	664332	DFT-s-OFDM 256QAM	75/0	6.21	13	PASS
n77(3700-3980MHz)	30	30	664332	CP-OFDM QPSK	78/0	6.49	13	PASS
n77(3700-3980MHz)	30	30	664332	CP-OFDM 256QAM	78/0	7.85	13	PASS
n77(3700-3980MHz)	30	40	648000	DFT-s-OFDM PI/2 BPSK	100/0	4.07	13	PASS
n77(3700-3980MHz)	30	40	648000	DFT-s-OFDM 256QAM	100/0	6.7	13	PASS
n77(3700-3980MHz)	30	40	648000	CP-OFDM QPSK	106/0	6.71	13	PASS
n77(3700-3980MHz)	30	40	648000	CP-OFDM 256QAM	106/0	6.75	13	PASS
n77(3700-3980MHz)	30	40	656000	DFT-s-OFDM PI/2 BPSK	100/0	3.86	13	PASS
n77(3700-3980MHz)	30	40	656000	DFT-s-OFDM 256QAM	100/0	6.48	13	PASS
n77(3700-3980MHz)	30	40	656000	CP-OFDM QPSK	106/0	6.83	13	PASS
n77(3700-3980MHz)	30	40	656000	CP-OFDM 256QAM	106/0	8.35	13	PASS
n77(3700-3980MHz)	30	40	664000	DFT-s-OFDM PI/2 BPSK	100/0	3.22	13	PASS
n77(3700-3980MHz)	30	40	664000	DFT-s-OFDM 256QAM	100/0	6.45	13	PASS
n77(3700-3980MHz)	30	40	664000	CP-OFDM QPSK	106/0	6.43	13	PASS
n77(3700-3980MHz)	30	40	664000	CP-OFDM 256QAM	106/0	6.41	13	PASS
n77(3700-3980MHz)	30	60	648668	DFT-s-OFDM PI/2 BPSK	162/0	3.11	13	PASS
n77(3700-3980MHz)	30	60	648668	DFT-s-OFDM 256QAM	162/0	6.29	13	PASS
n77(3700-3980MHz)	30	60	648668	CP-OFDM QPSK	162/0	7.41	13	PASS



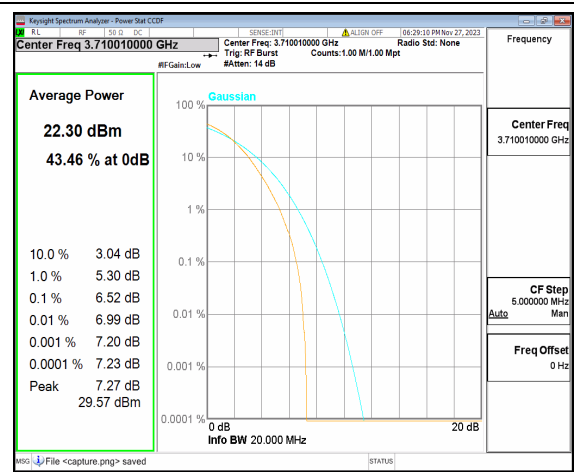
n77(3700-3980MHz)	30	60	648668	CP-OFDM 256QAM	162/0	8.34	13	PASS
n77(3700-3980MHz)	30	60	656000	DFT-s-OFDM PI/2 BPSK	162/0	2.78	13	PASS
n77(3700-3980MHz)	30	60	656000	DFT-s-OFDM 256QAM	162/0	6.21	13	PASS
n77(3700-3980MHz)	30	60	656000	CP-OFDM QPSK	162/0	6.87	13	PASS
n77(3700-3980MHz)	30	60	656000	CP-OFDM 256QAM	162/0	8.19	13	PASS
n77(3700-3980MHz)	30	60	663332	DFT-s-OFDM PI/2 BPSK	162/0	2.84	13	PASS
n77(3700-3980MHz)	30	60	663332	DFT-s-OFDM 256QAM	162/0	6.22	13	PASS
n77(3700-3980MHz)	30	60	663332	CP-OFDM QPSK	162/0	6.18	13	PASS
n77(3700-3980MHz)	30	60	663332	CP-OFDM 256QAM	162/0	6.21	13	PASS
n77(3700-3980MHz)	30	80	649334	DFT-s-OFDM PI/2 BPSK	216/0	3.19	13	PASS
n77(3700-3980MHz)	30	80	649334	DFT-s-OFDM 256QAM	216/0	6.31	13	PASS
n77(3700-3980MHz)	30	80	649334	CP-OFDM QPSK	217/0	7.41	13	PASS
n77(3700-3980MHz)	30	80	649334	CP-OFDM 256QAM	217/0	8.27	13	PASS
n77(3700-3980MHz)	30	80	656000	DFT-s-OFDM PI/2 BPSK	216/0	3.02	13	PASS
n77(3700-3980MHz)	30	80	656000	DFT-s-OFDM 256QAM	216/0	6.22	13	PASS
n77(3700-3980MHz)	30	80	656000	CP-OFDM QPSK	217/0	6.21	13	PASS
n77(3700-3980MHz)	30	80	656000	CP-OFDM 256QAM	217/0	6.23	13	PASS
n77(3700-3980MHz)	30	80	662666	DFT-s-OFDM PI/2 BPSK	216/0	3.09	13	PASS
n77(3700-3980MHz)	30	80	662666	DFT-s-OFDM 256QAM	216/0	6.26	13	PASS
n77(3700-3980MHz)	30	80	662666	CP-OFDM QPSK	217/0	6.26	13	PASS



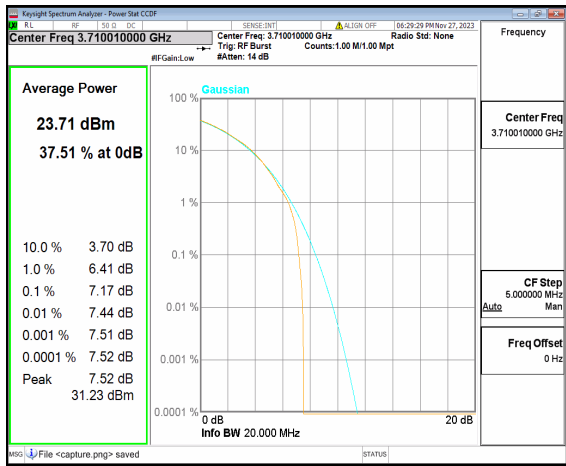
n77(3700-3980MHz)	30	80	662666	CP-OFDM 256QAM	217/0	6.28	13	PASS
n77(3700-3980MHz)	30	100	650000	DFT-s-OFDM PI/2 BPSK	270/0	3.3	13	PASS
n77(3700-3980MHz)	30	100	650000	DFT-s-OFDM 256QAM	270/0	6.63	13	PASS
n77(3700-3980MHz)	30	100	650000	CP-OFDM QPSK	273/0	6.63	13	PASS
n77(3700-3980MHz)	30	100	650000	CP-OFDM 256QAM	273/0	6.63	13	PASS
n77(3700-3980MHz)	30	100	656000	DFT-s-OFDM PI/2 BPSK	270/0	3.08	13	PASS
n77(3700-3980MHz)	30	100	656000	DFT-s-OFDM 256QAM	270/0	6.76	13	PASS
n77(3700-3980MHz)	30	100	656000	CP-OFDM QPSK	273/0	6.72	13	PASS
n77(3700-3980MHz)	30	100	656000	CP-OFDM 256QAM	273/0	6.72	13	PASS
n77(3700-3980MHz)	30	100	662000	DFT-s-OFDM PI/2 BPSK	270/0	3.31	13	PASS
n77(3700-3980MHz)	30	100	662000	DFT-s-OFDM 256QAM	270/0	6.67	13	PASS
n77(3700-3980MHz)	30	100	662000	CP-OFDM QPSK	273/0	6.64	13	PASS
n77(3700-3980MHz)	30	100	662000	CP-OFDM 256QAM	273/0	6.66	13	PASS



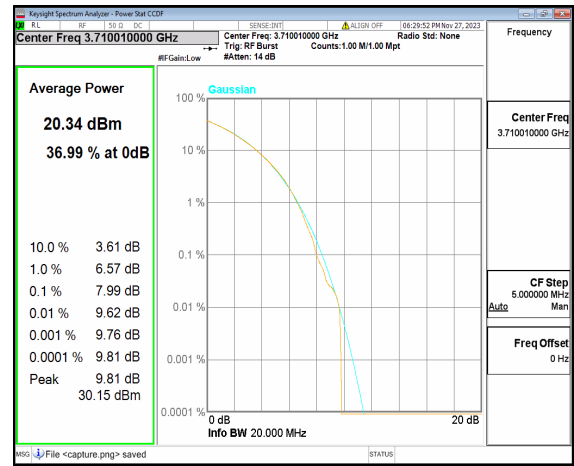
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Outer_Full Low



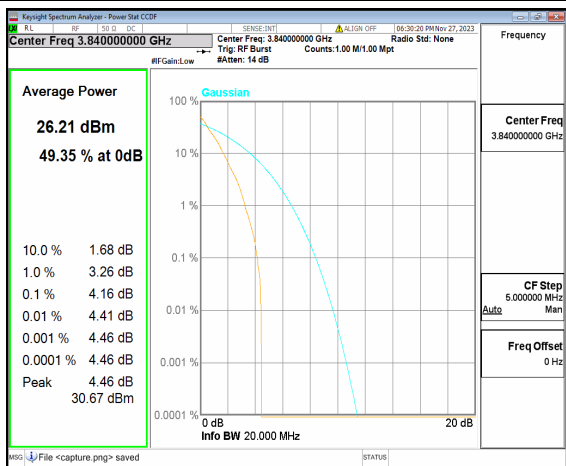
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256QAM Outer_Full Low



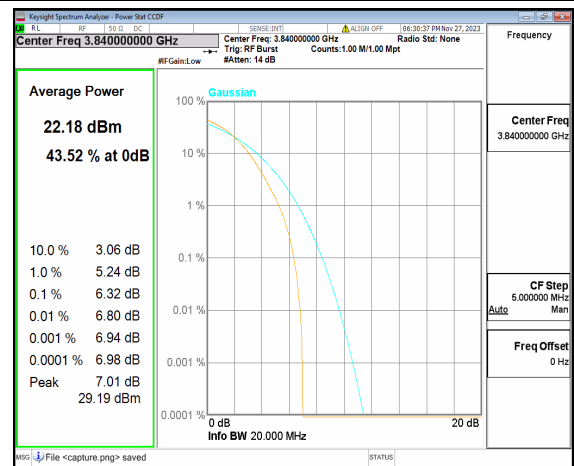
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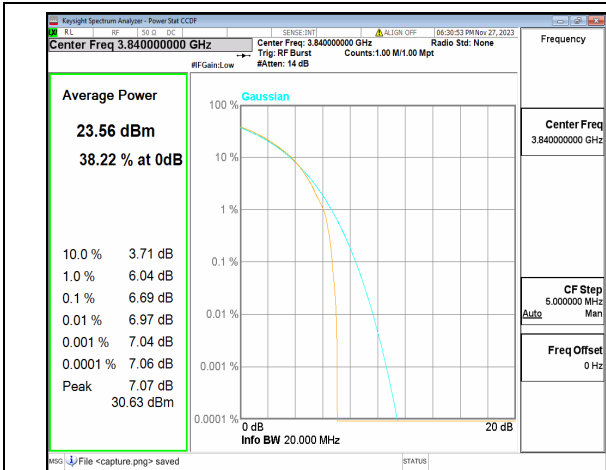
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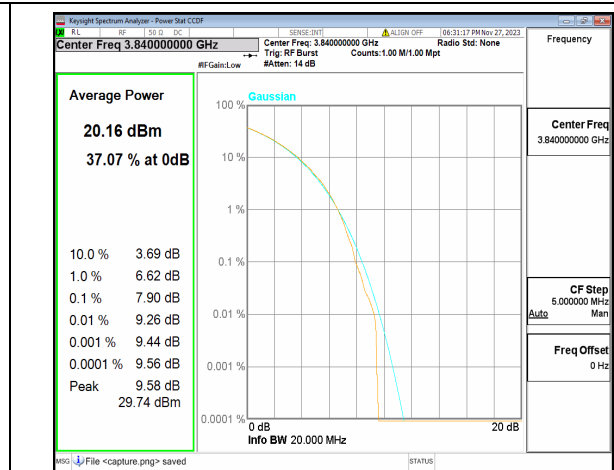
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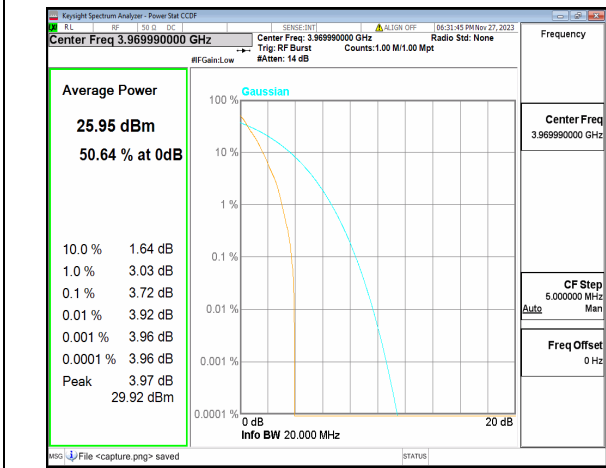
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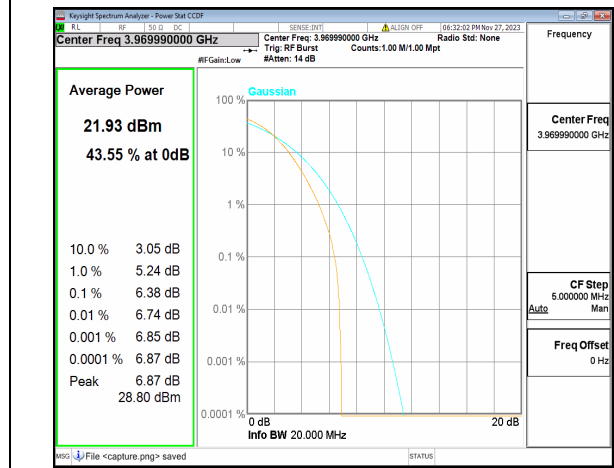
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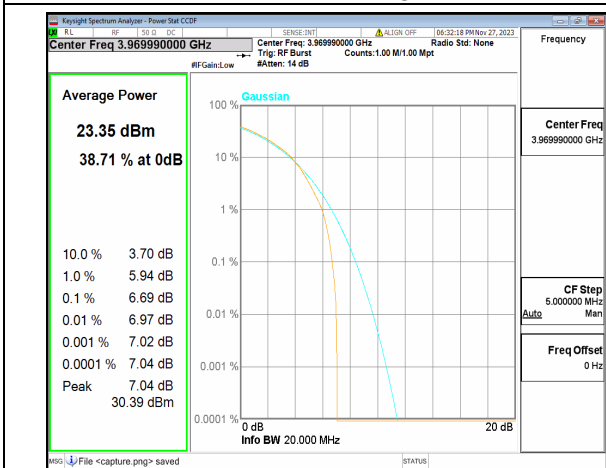
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Outer_Full Mid



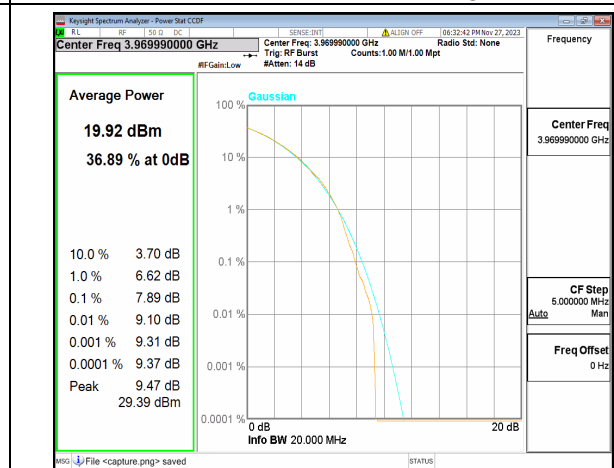
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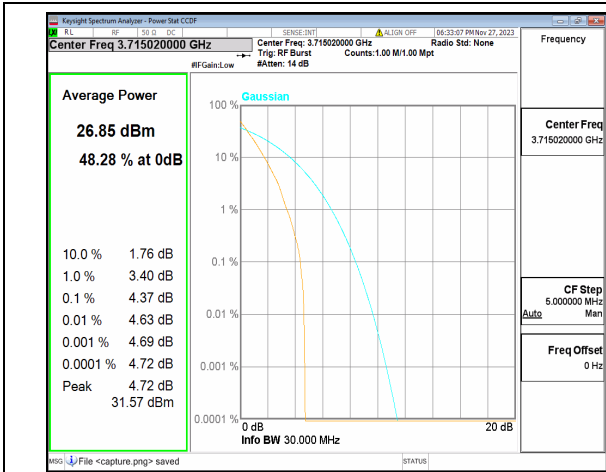
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256QAM Outer_Full High



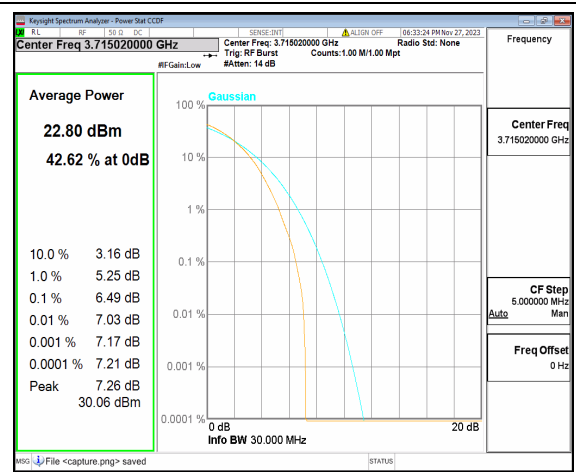
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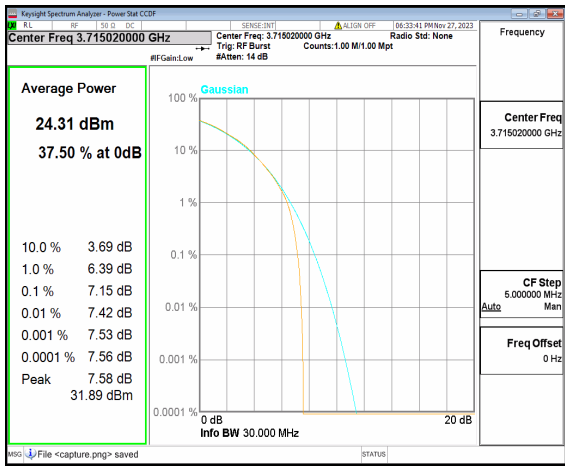
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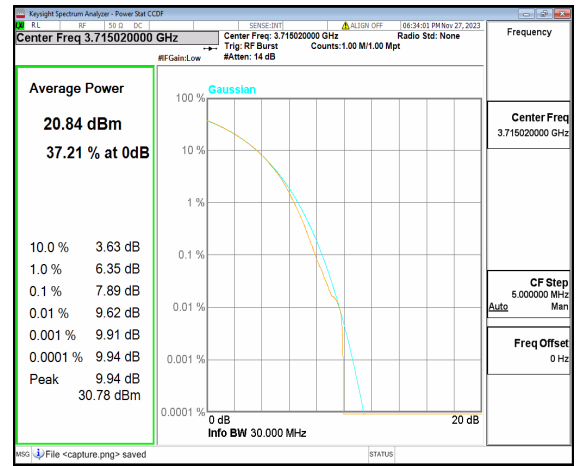
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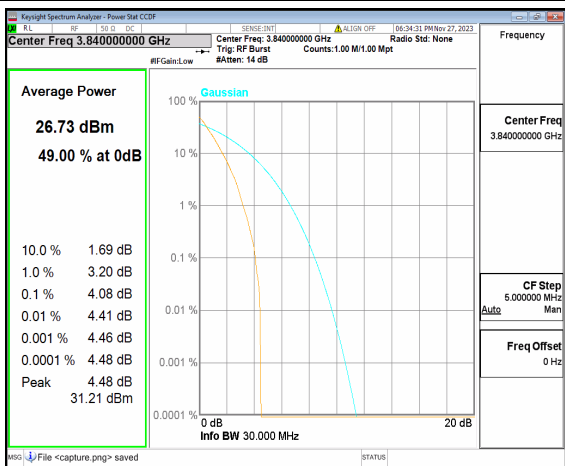
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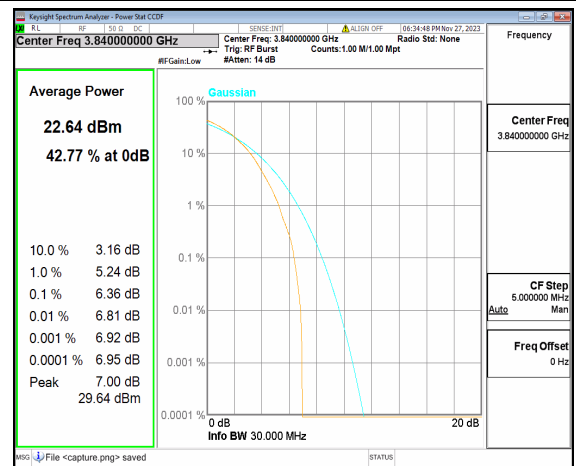
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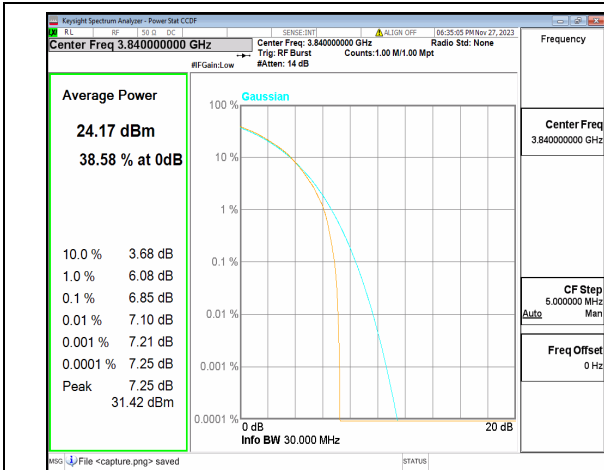
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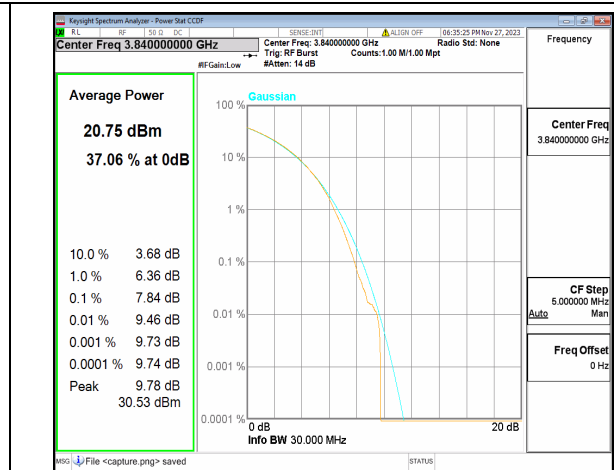
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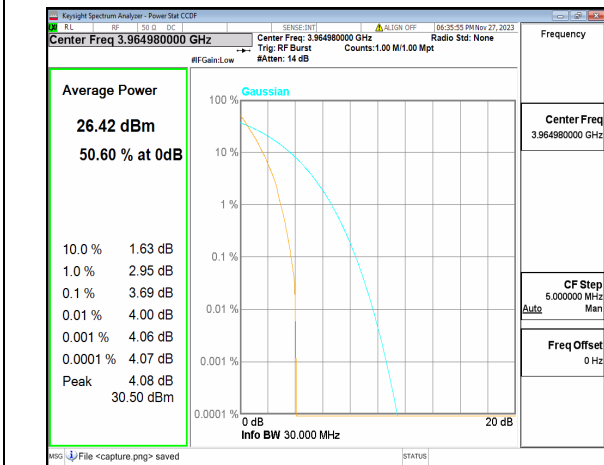
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256QAM Outer_Full Mid



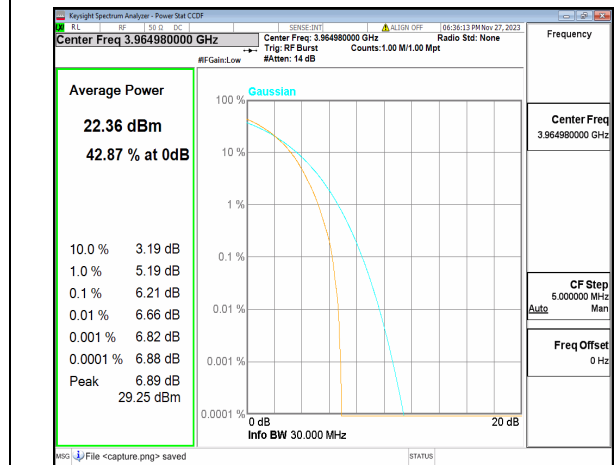
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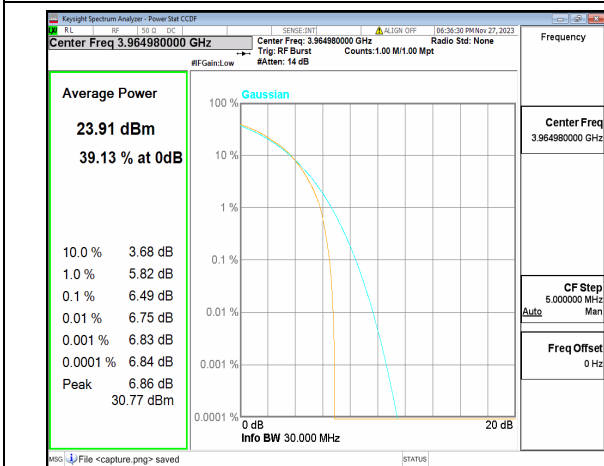
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Outer_Full Mid



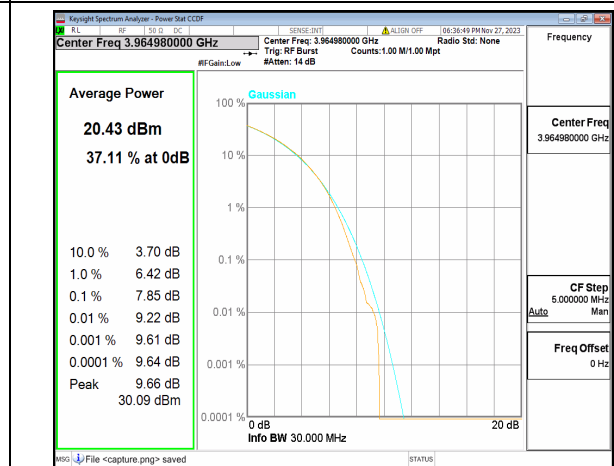
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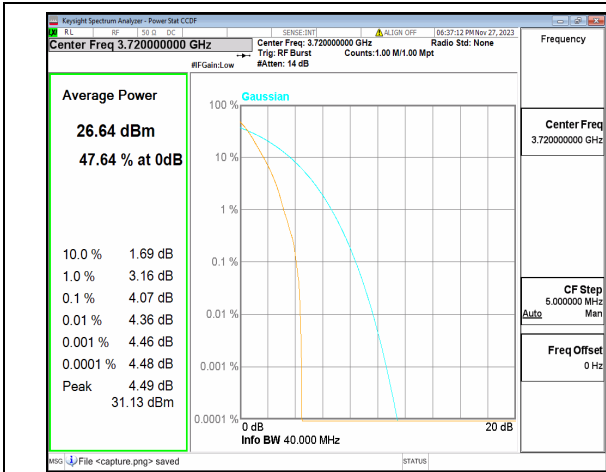
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256QAM Outer_Full High



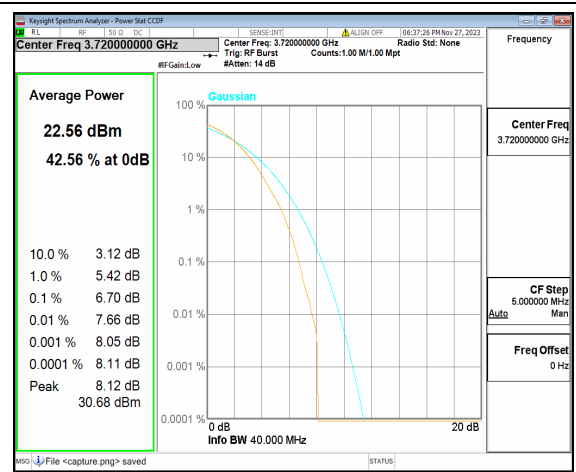
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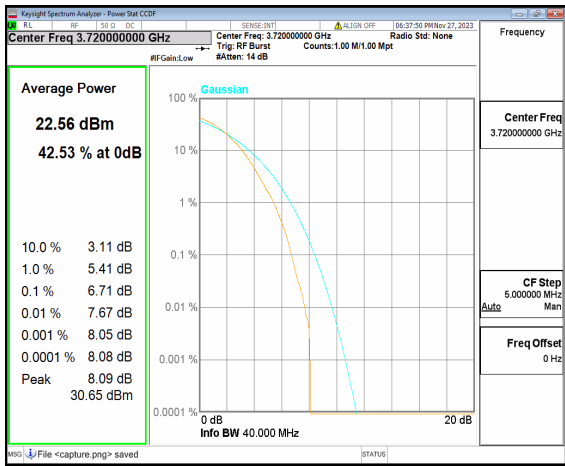
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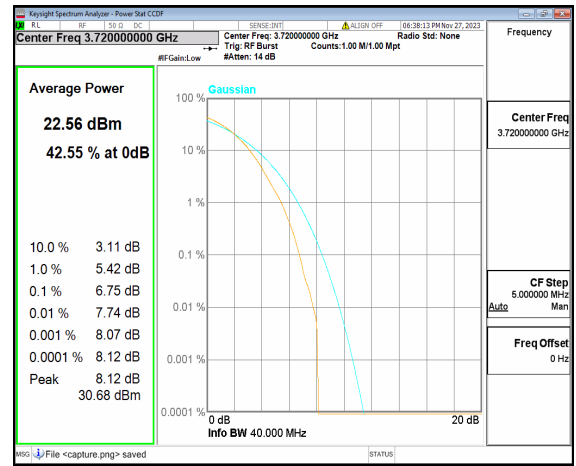
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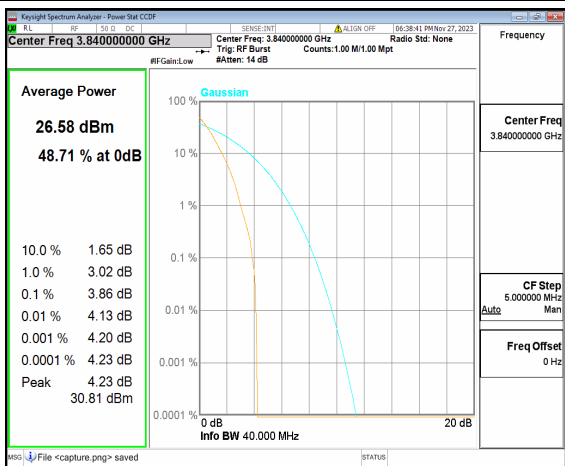
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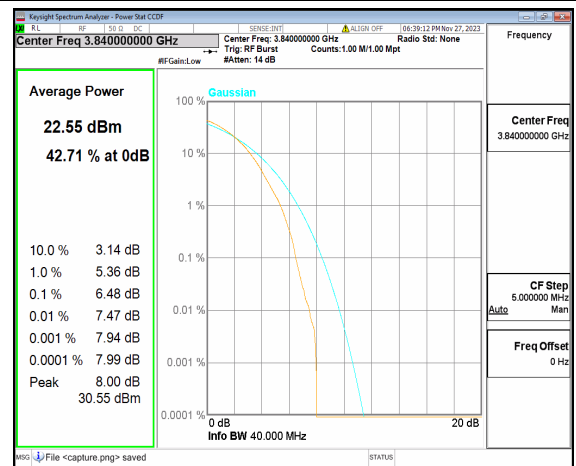
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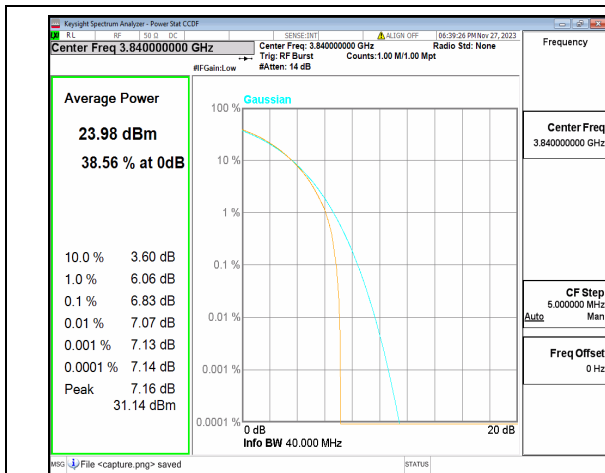
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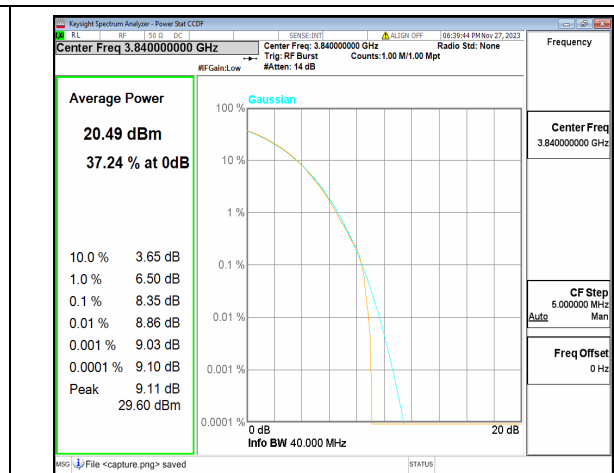
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Outer_Full Mid



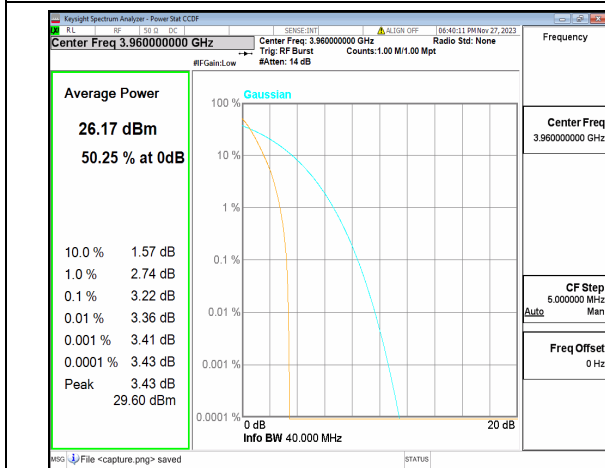
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256QAM Outer_Full Mid



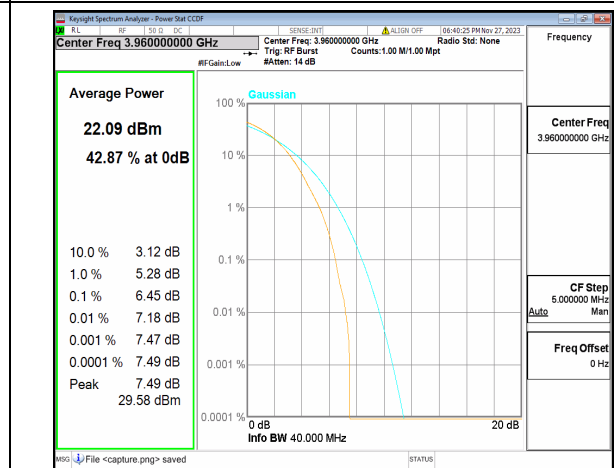
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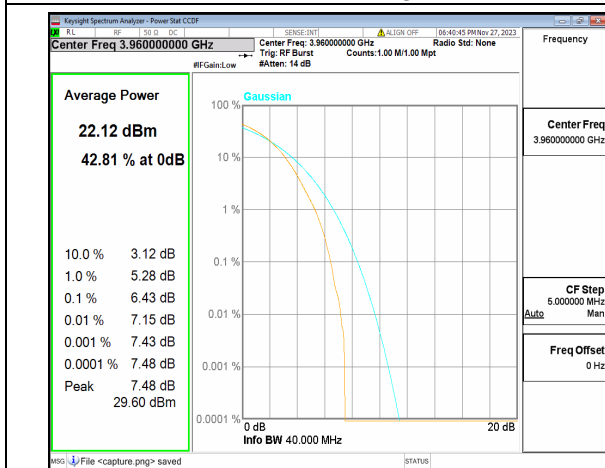
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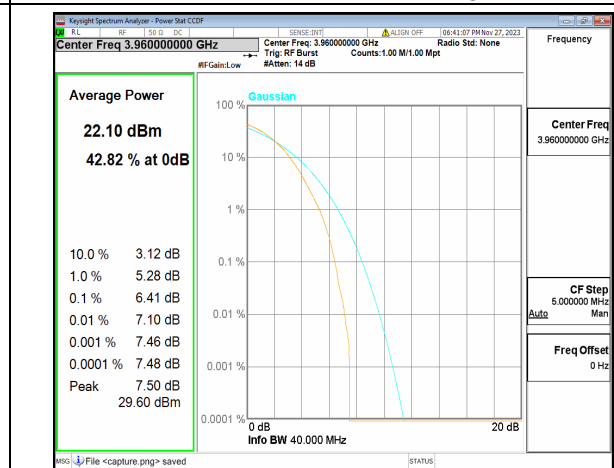
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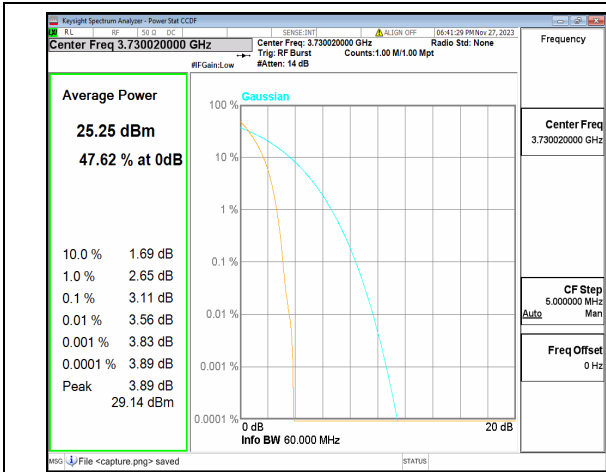
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256QAM Outer_Full High



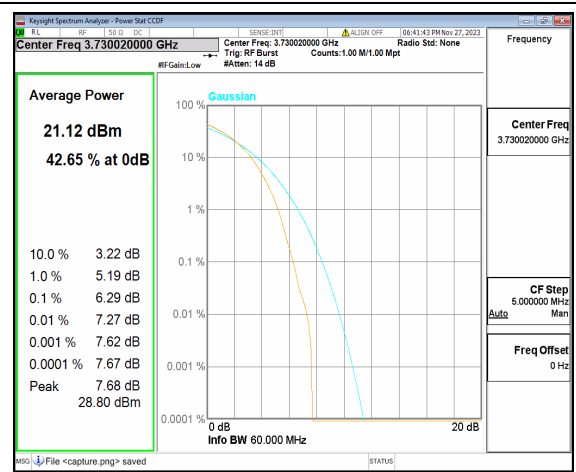
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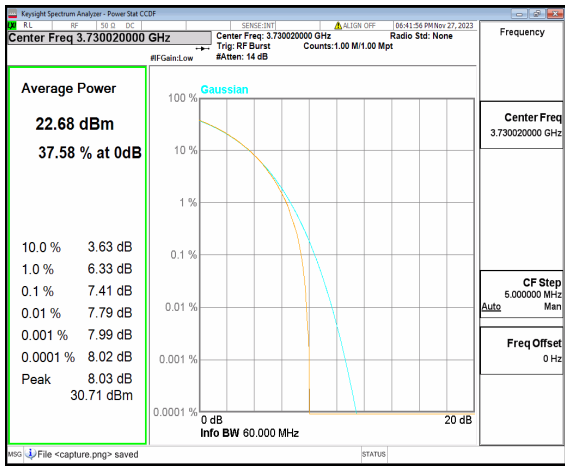
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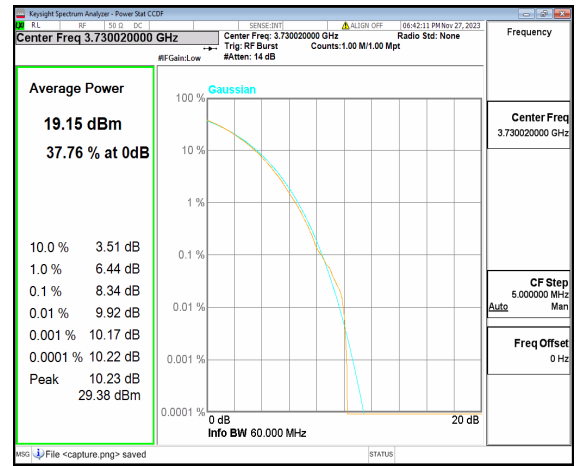
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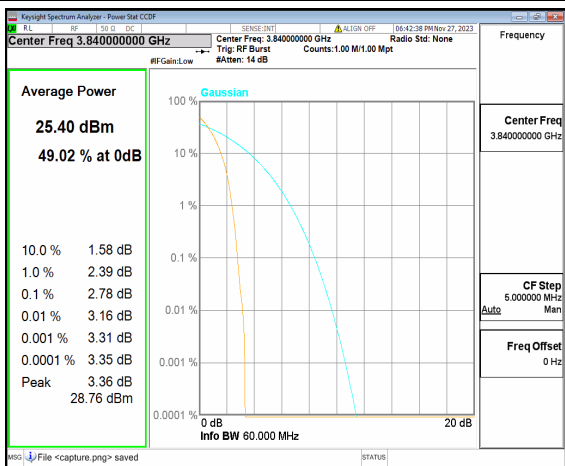
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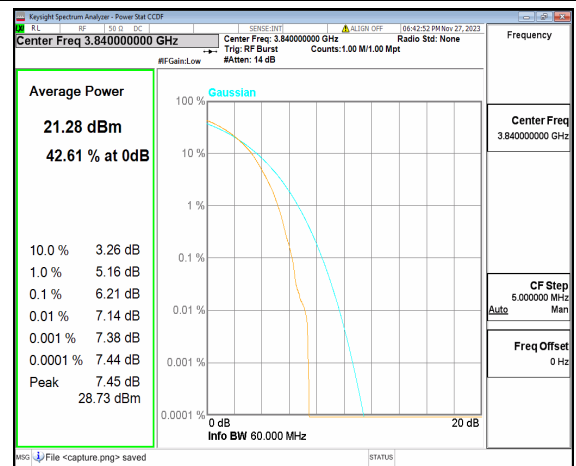
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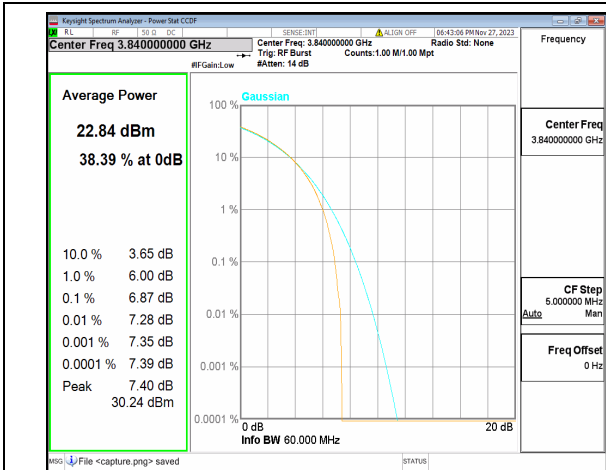
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Outer_Full Low



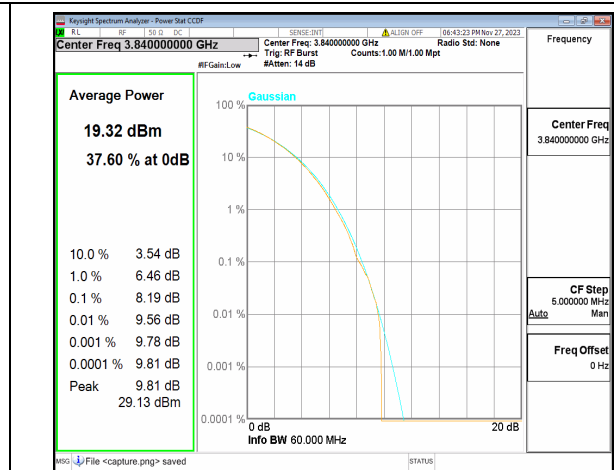
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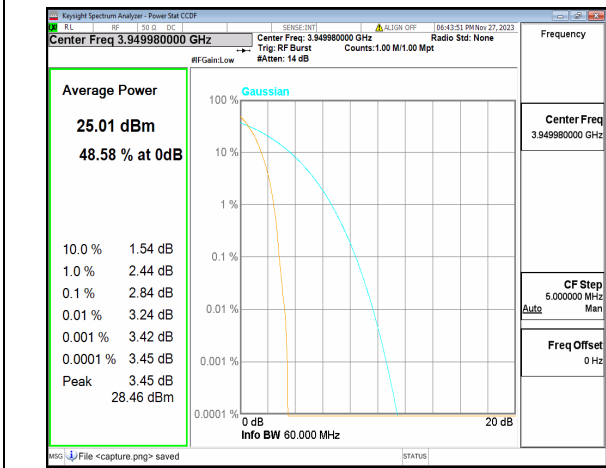
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256QAM Outer_Full Mid



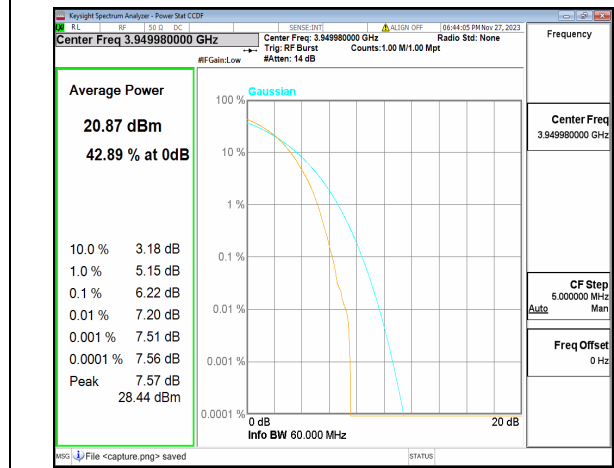
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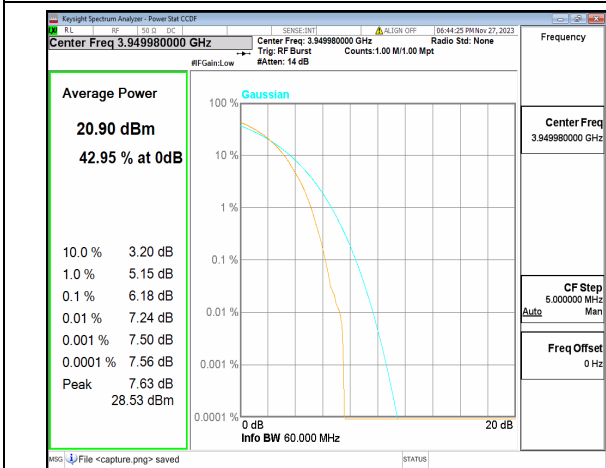
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Outer_Full Mid



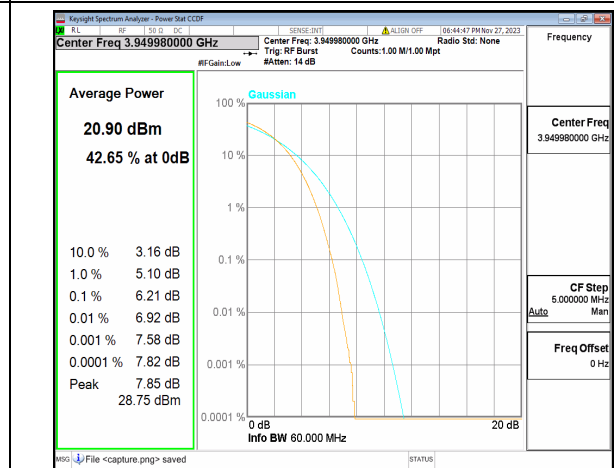
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Outer_Full High



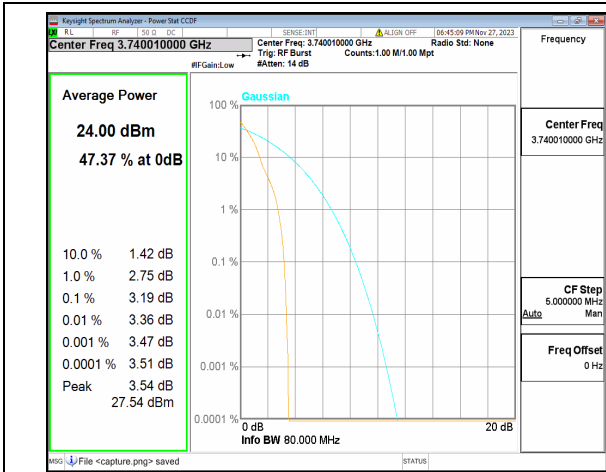
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256QAM Outer_Full High



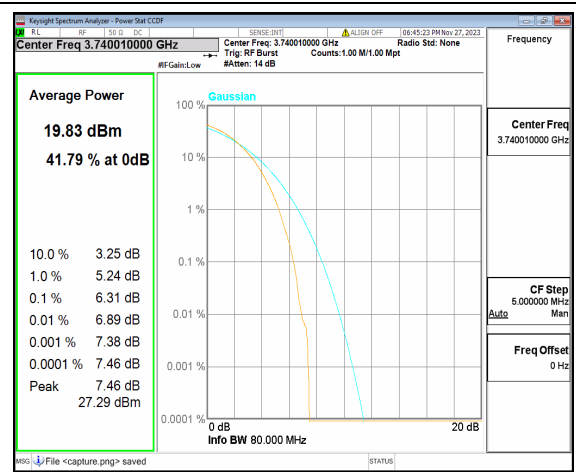
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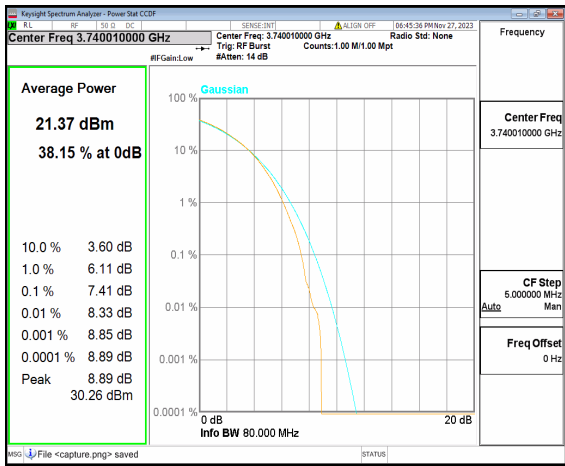
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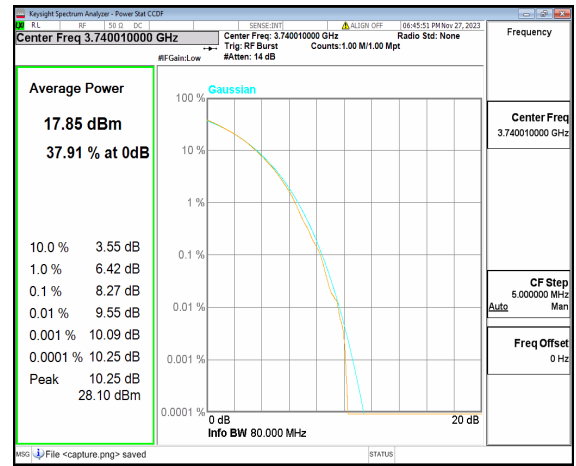
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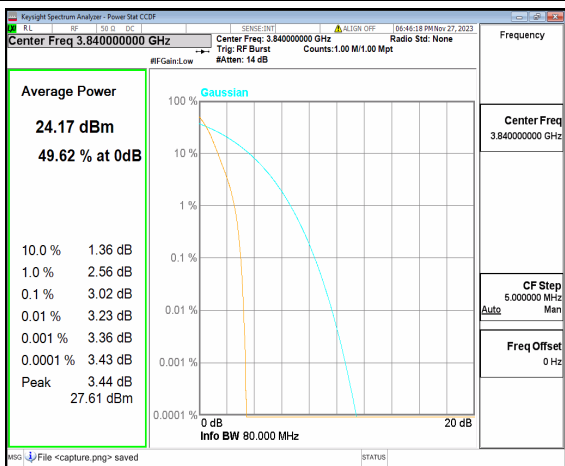
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256QAM Outer_Full Low



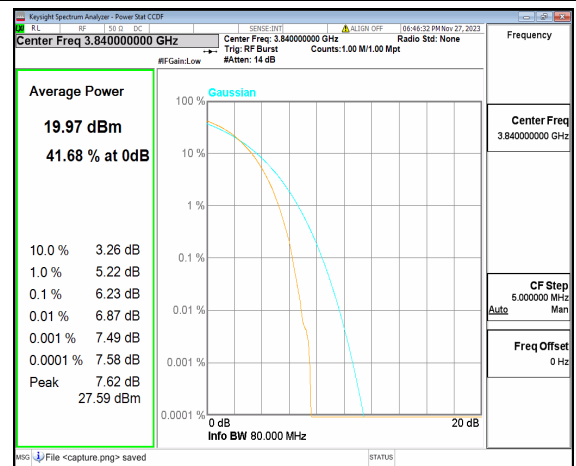
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Outer_Full Low



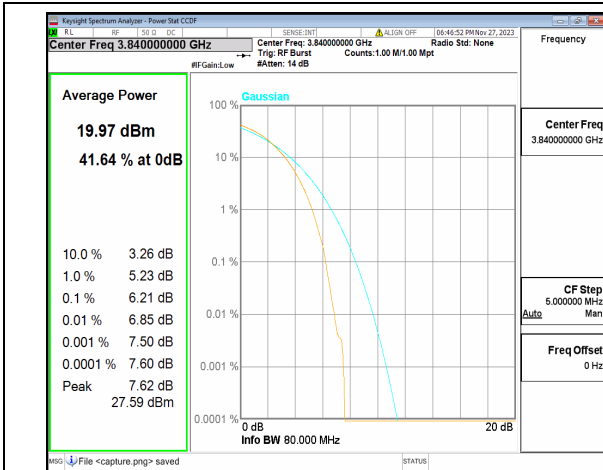
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Outer_Full Low



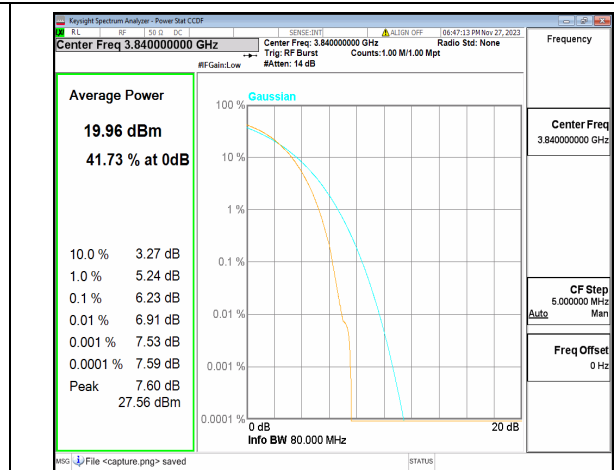
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Outer_Full Mid



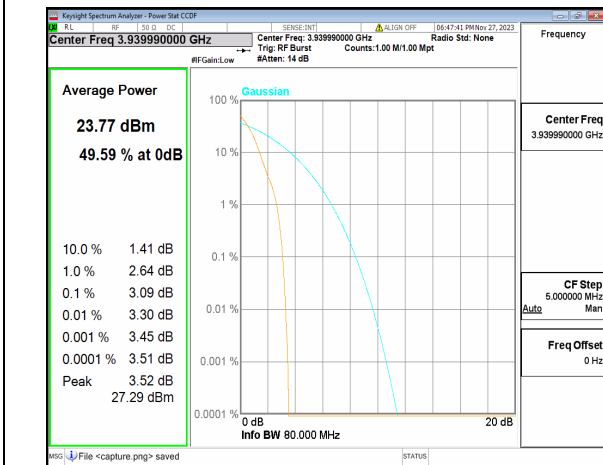
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256QAM Outer_Full Mid



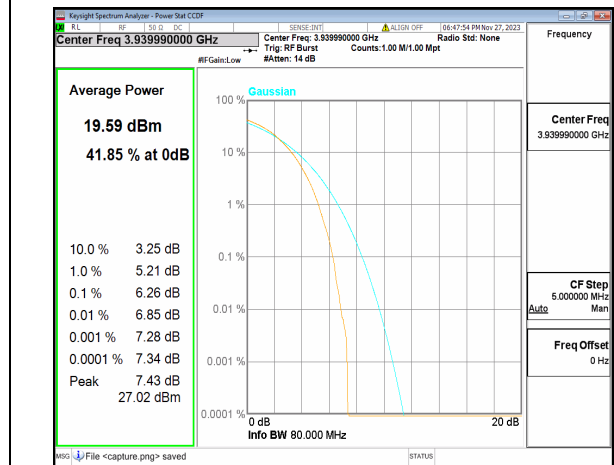
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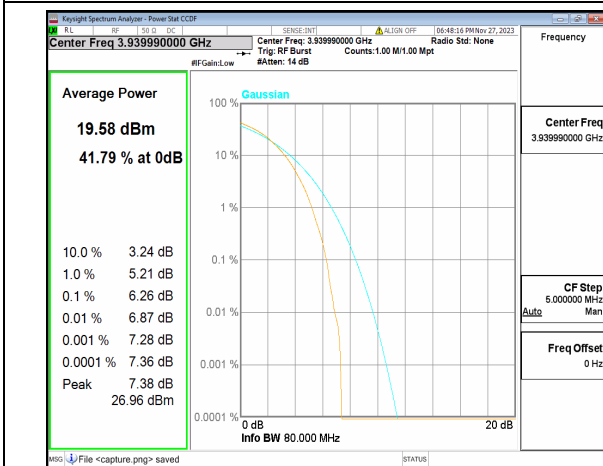
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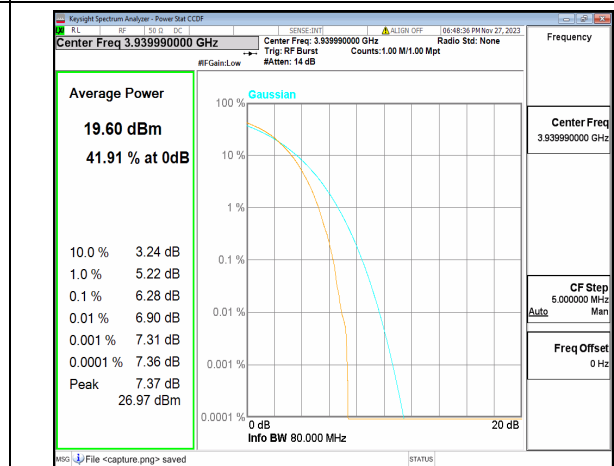
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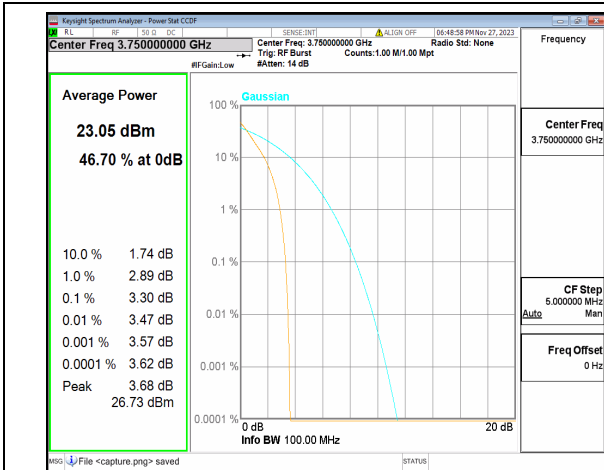
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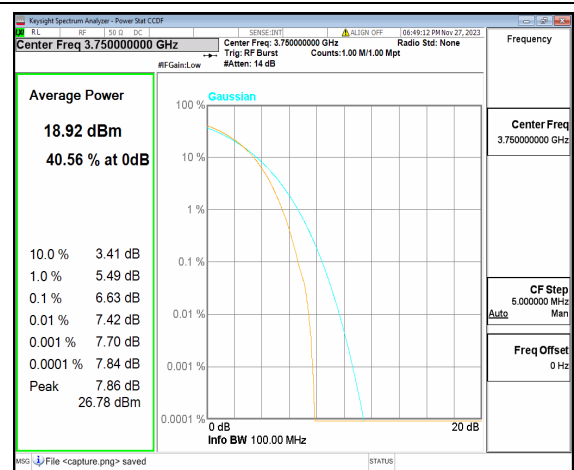
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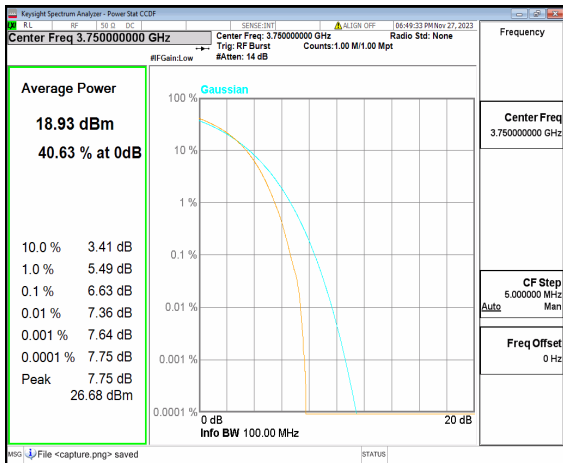
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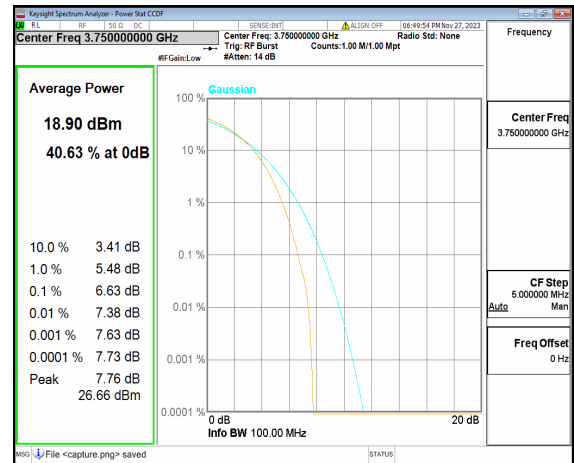
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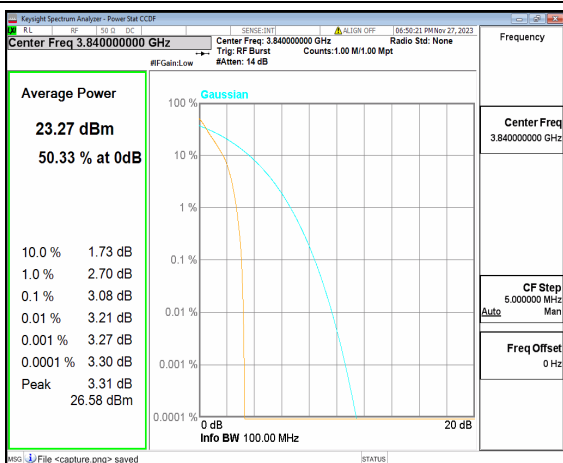
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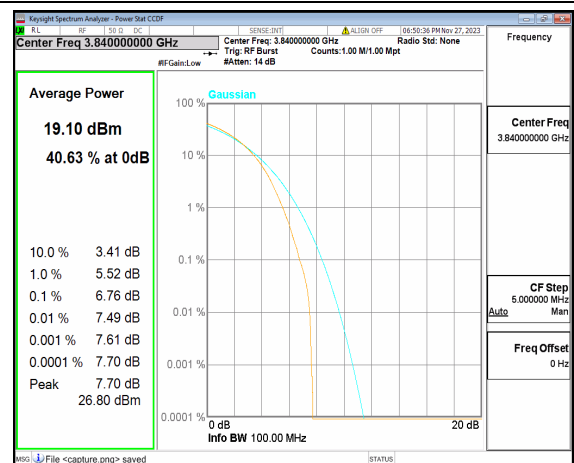
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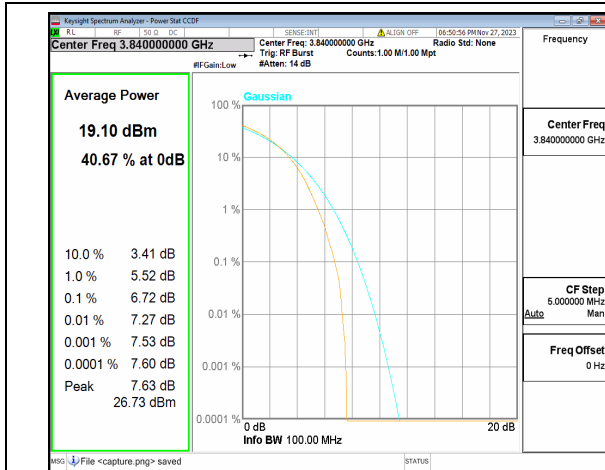
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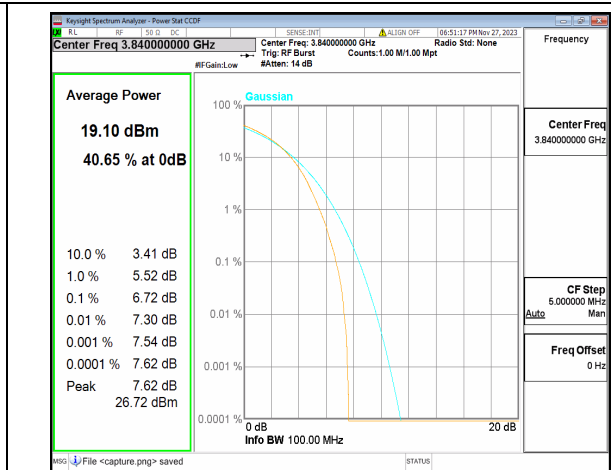
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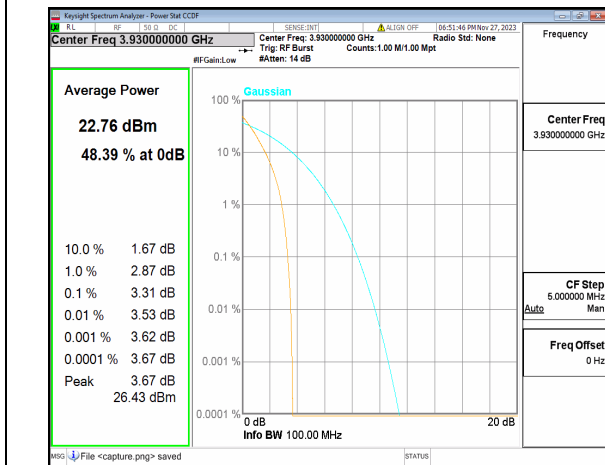
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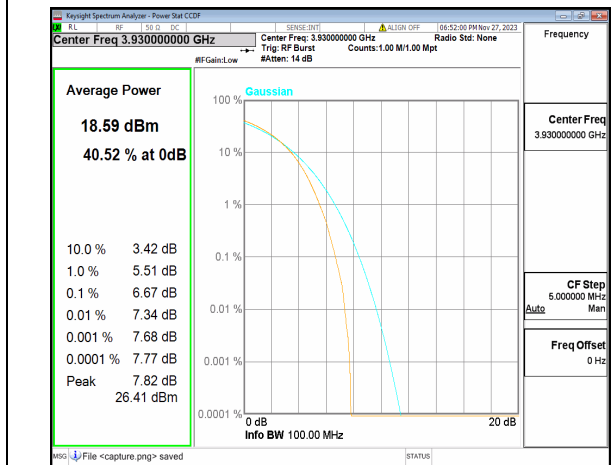
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Outer_Full Mid



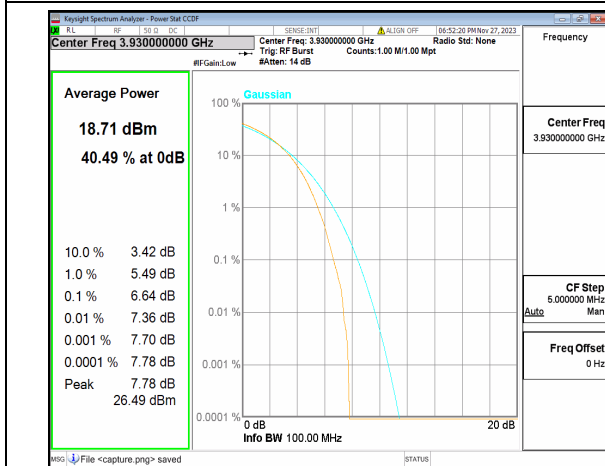
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Outer_Full Mid



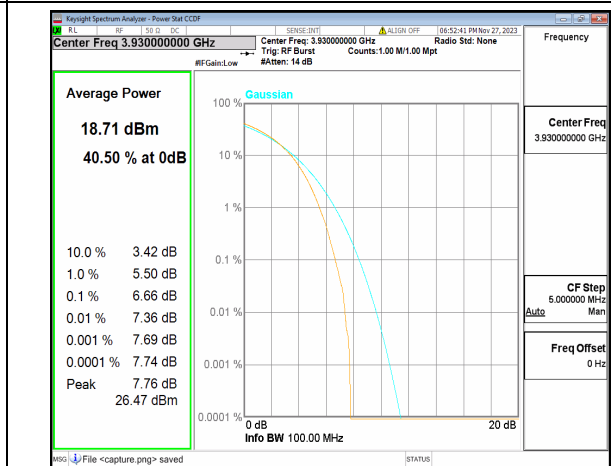
n77(3700-3980MHz) 100M DFT-s-OFDM BPSK
Outer_Full High



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



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



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



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(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(g) for n12, 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(c)(2) for n13, any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB in a 100kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. This calculated to be -13dBm.

According to FCC section 90.543(f) for n14, on any frequency outside of the frequency ranges covered by the ACP tables in this section, the power of any emission must be reduced below the mean output power (P) by at least $43 + 10 \log(P)$ dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.

According to FCC section 27.53 for n30, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log(P)$ dB. This calculated to be -40dBm.

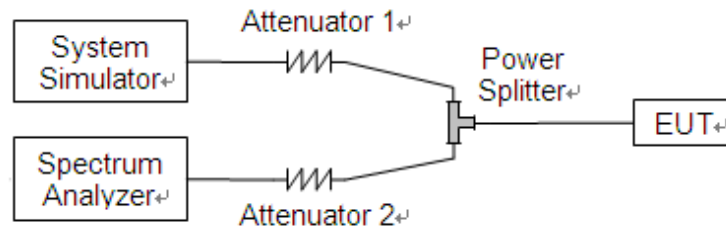
According to FCC section 96.41(e) for n48, the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

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.

2.5.2. Test Description



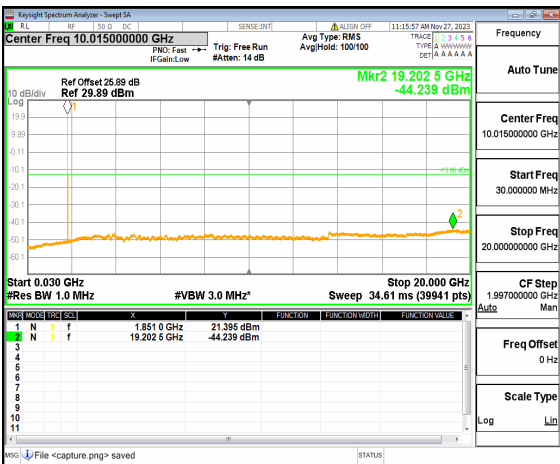
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

2.5.3. Test procedure

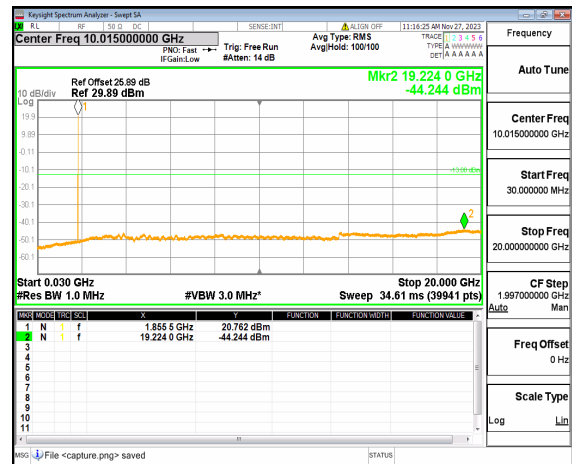
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.5.4. Test Result

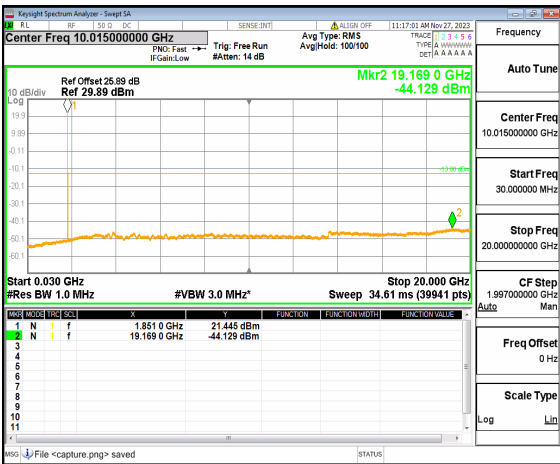
Note: In the same NR frequency band, The measured power in SA mode is higher than that in NSA mode, SA mode is selected to test all test cases.



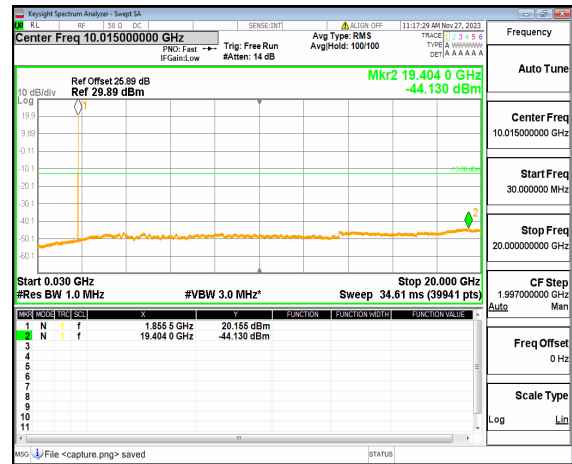
n2 (30MHz-20GHz) 5M DFT-s-OFDM BPSK
Edge_1RB_Left_Low



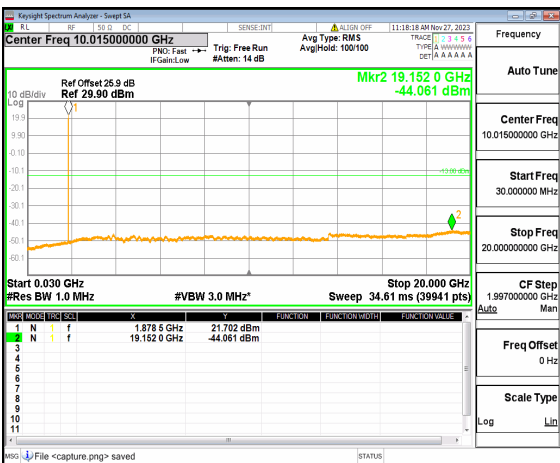
n2 (30MHz-20GHz) 5M DFT-s-OFDM BPSK
Edge_1RB_Right_Low



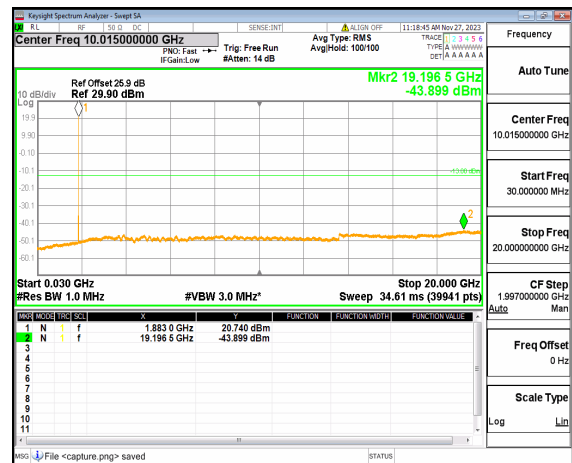
n2 (30MHz-20GHz) 5M DFT-s-OFDM QPSK
Edge_1RB_Left_Low



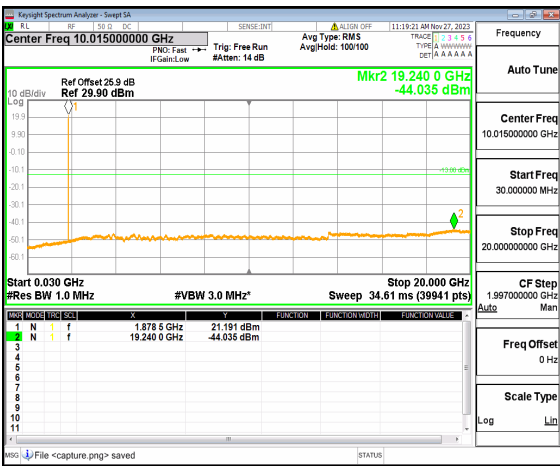
n2 (30MHz-20GHz) 5M DFT-s-OFDM QPSK
Edge_1RB_Right_Low



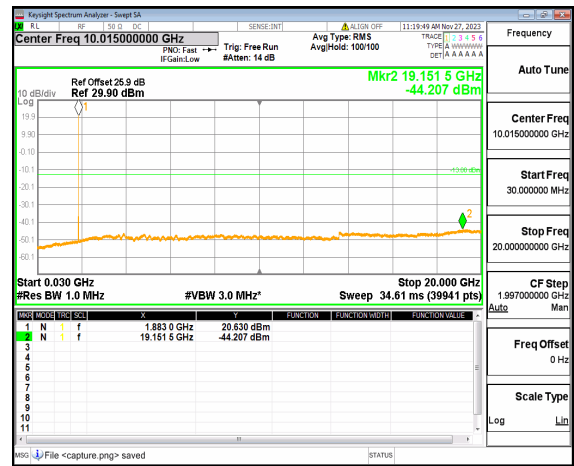
n2 (30MHz-20GHz) 5M DFT-s-OFDM BPSK
Edge_1RB_Left_Mid



n2 (30MHz-20GHz) 5M DFT-s-OFDM BPSK
Edge_1RB_Right_Mid



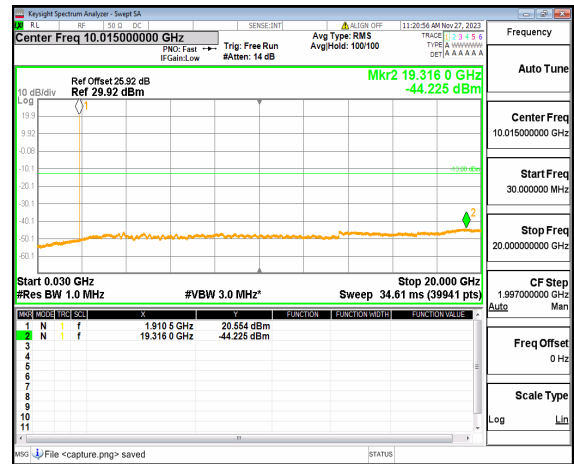
n2 (30MHz-20GHz) 5M DFT-s-OFDM QPSK
Edge_1RB_Left_Mid



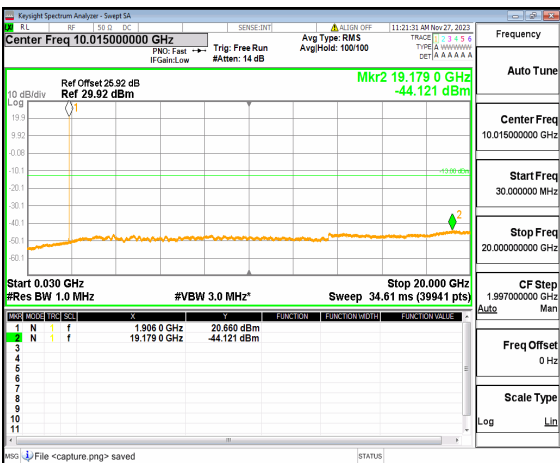
n2 (30MHz-20GHz) 5M DFT-s-OFDM QPSK
Edge_1RB_Right_Mid



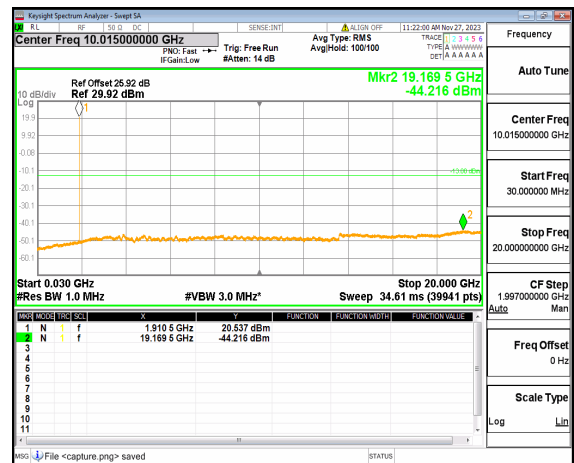
n2 (30MHz-20GHz) 5M DFT-s-OFDM BPSK
Edge_1RB_Left_High



n2 (30MHz-20GHz) 5M DFT-s-OFDM BPSK
Edge_1RB_Right_High



n2 (30MHz-20GHz) 5M DFT-s-OFDM QPSK
Edge_1RB_Left_High



n2 (30MHz-20GHz) 5M DFT-s-OFDM QPSK
Edge_1RB_Right_High