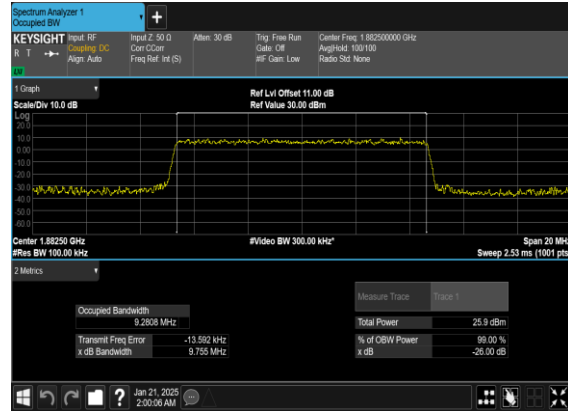




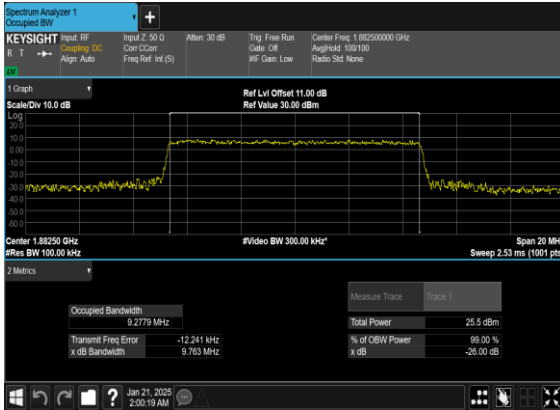
N25(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



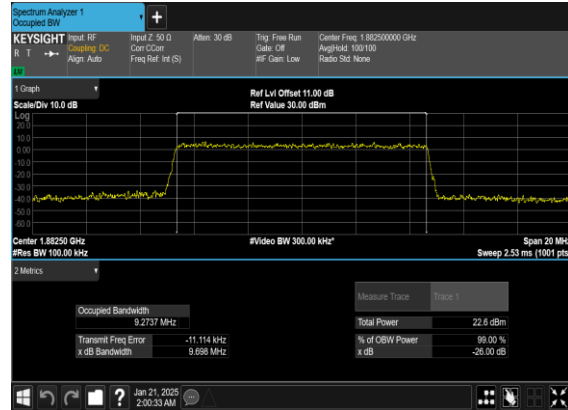
N25(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

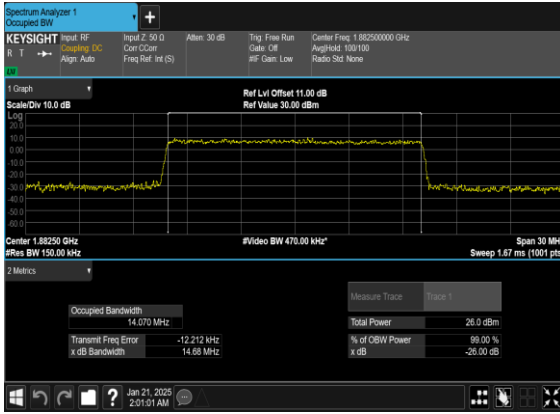


N25(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

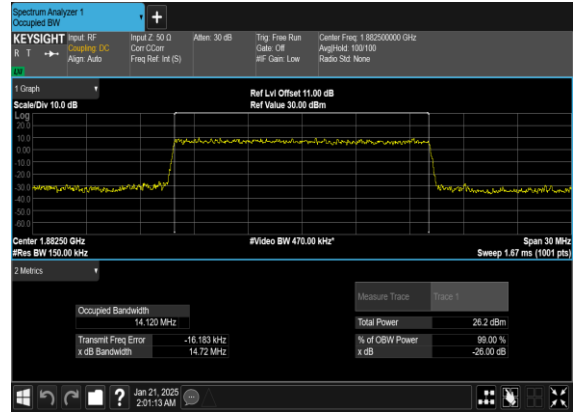




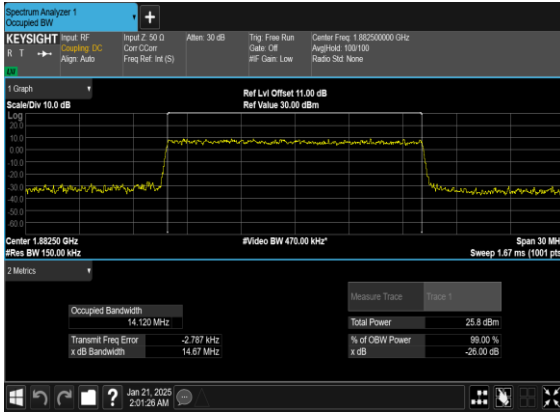
N25(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



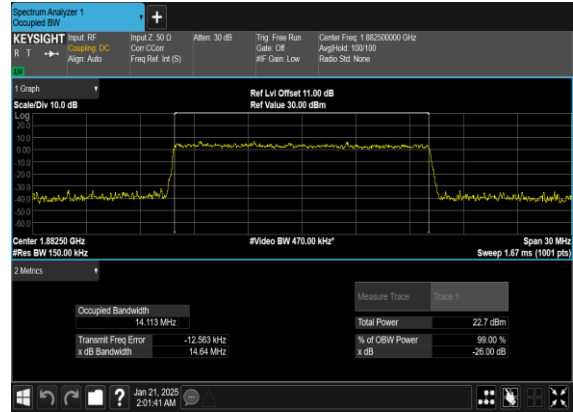
N25(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(15M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

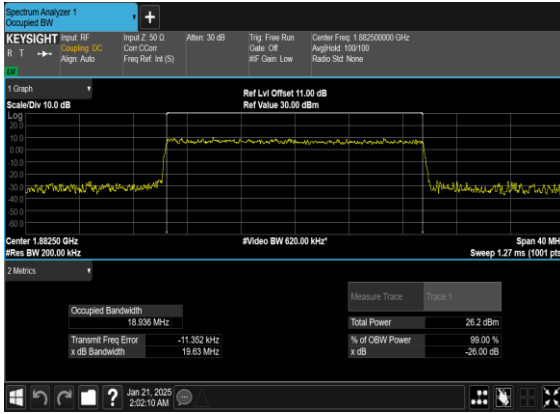


N25(15M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

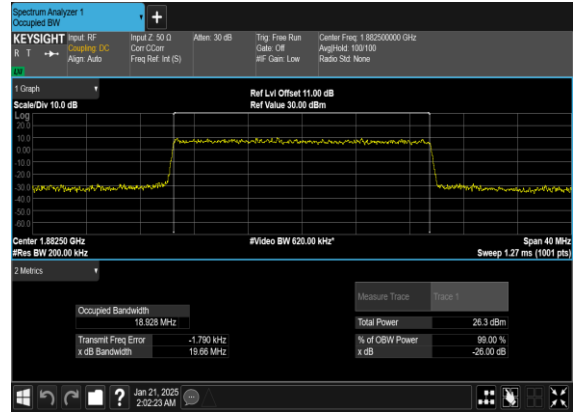




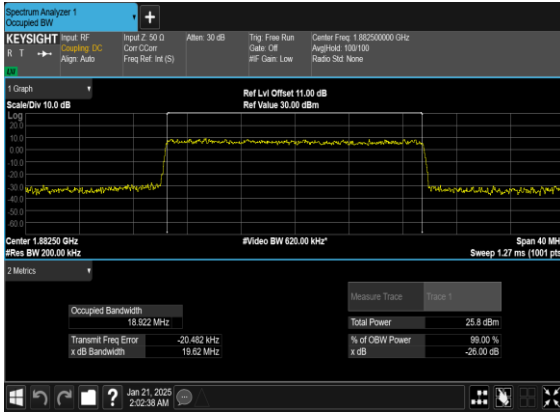
N25(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



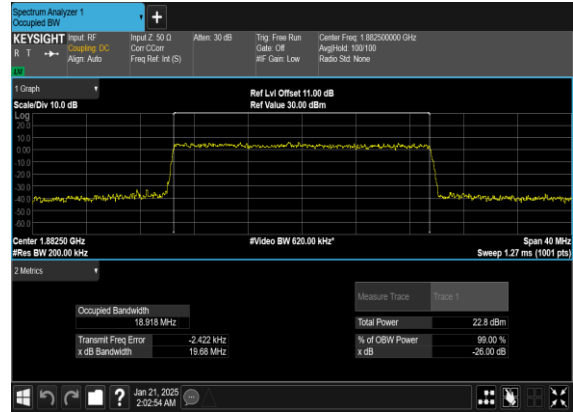
N25(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

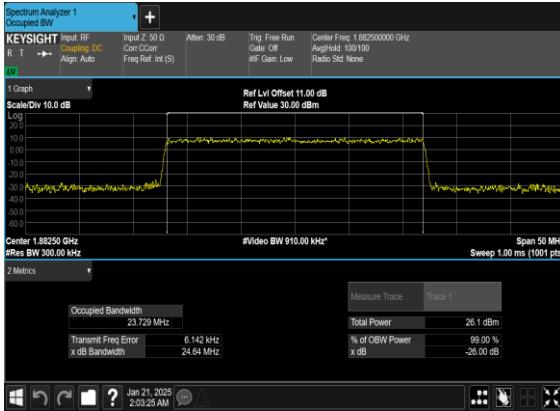


N25(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

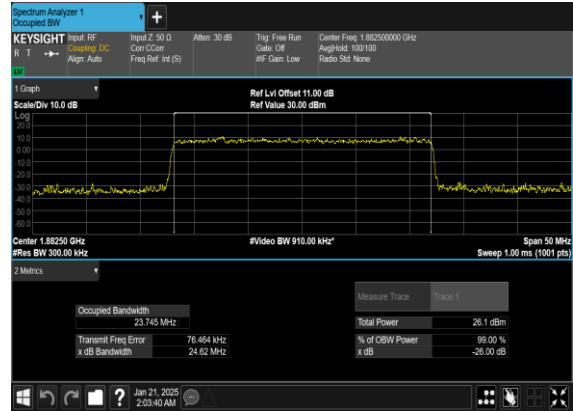




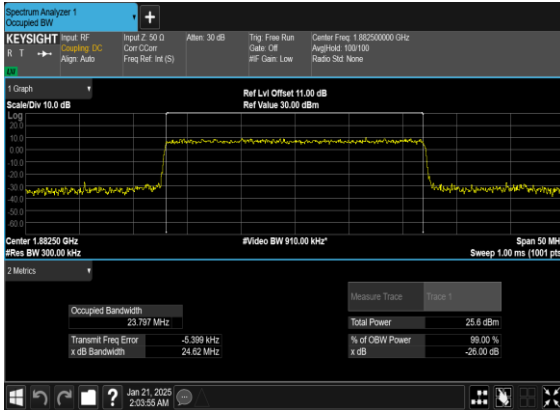
N25(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



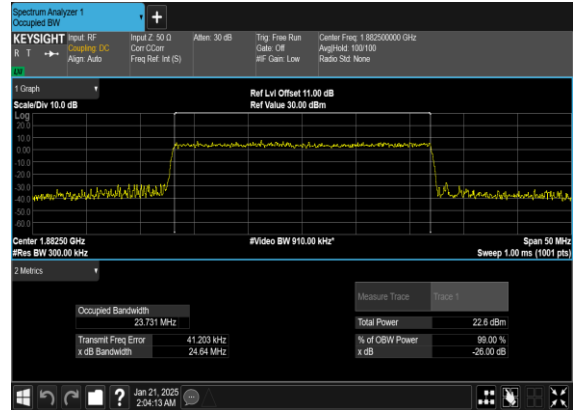
N25(25M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(25M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

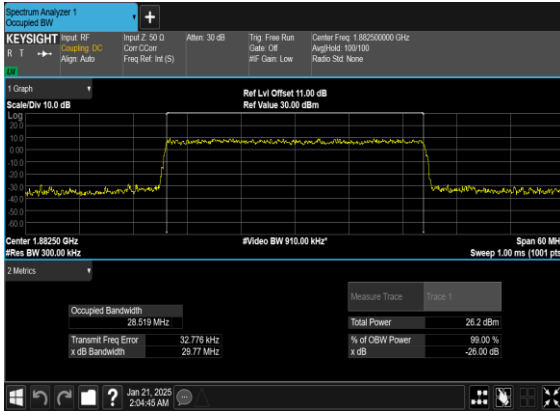


N25(25M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

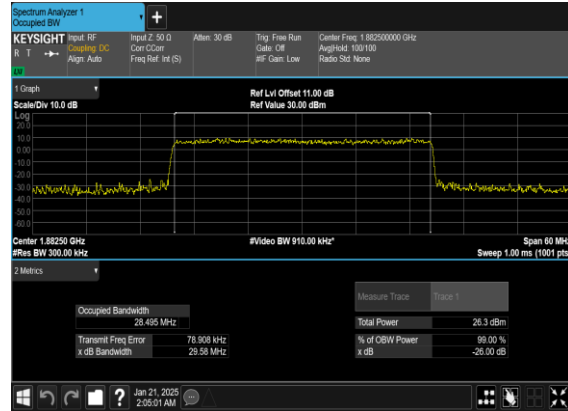




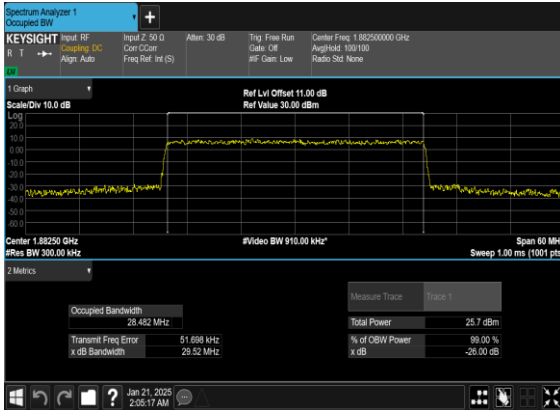
N25(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



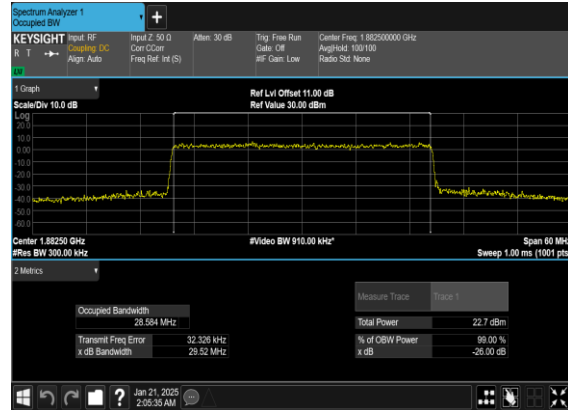
N25(30M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(30M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

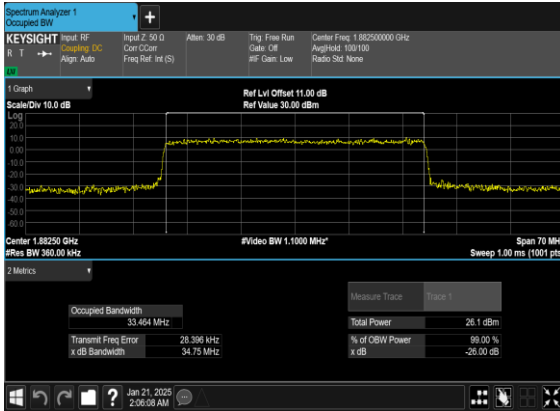


N25(30M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

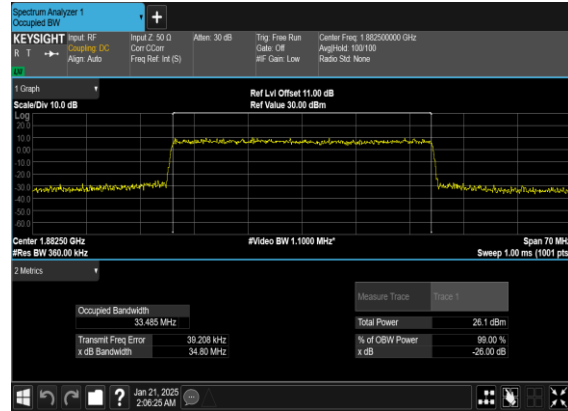




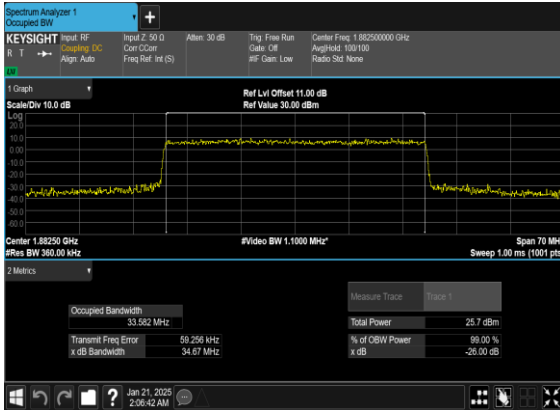
N25(35M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



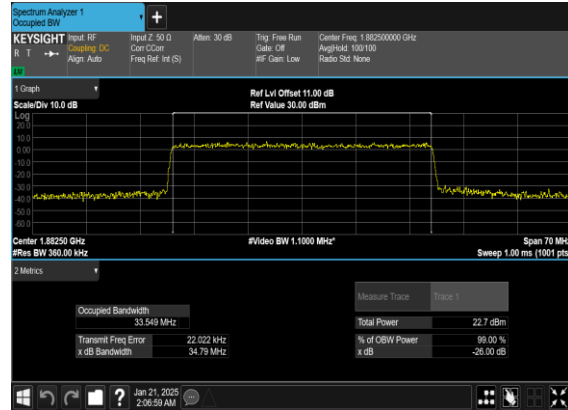
N25(35M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(35M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

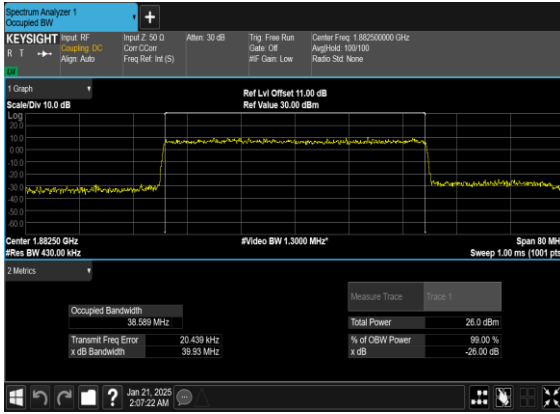


N25(35M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

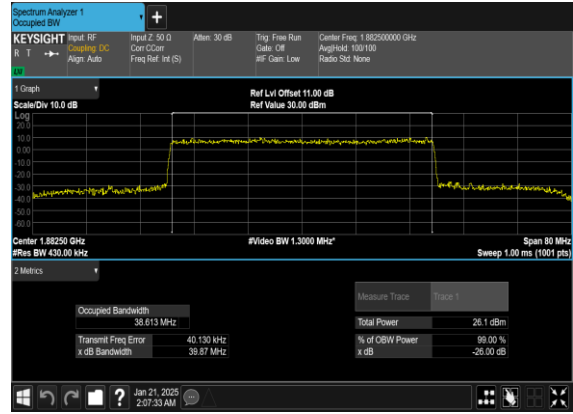




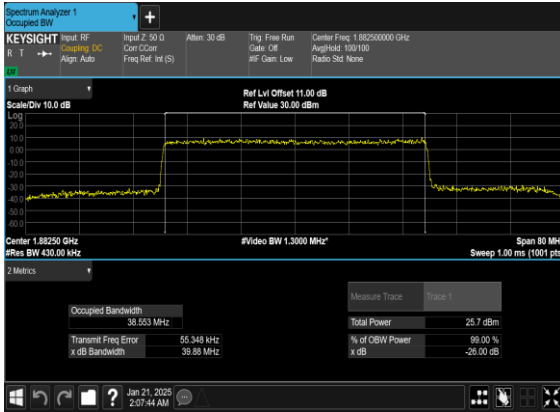
N25(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



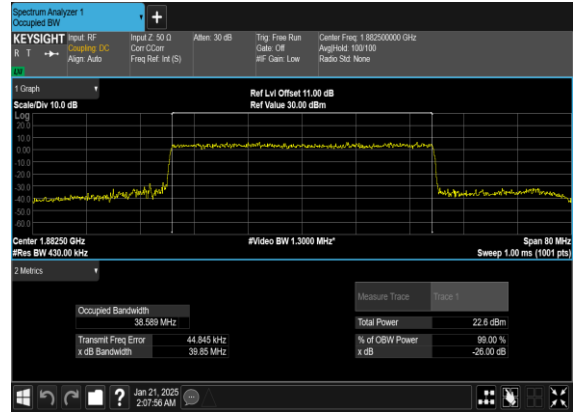
N25(40M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(40M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N25(40M)_CP-OFDM_256QAM_Outer_Full_Mid_CH





Conducted Spurious Emissions

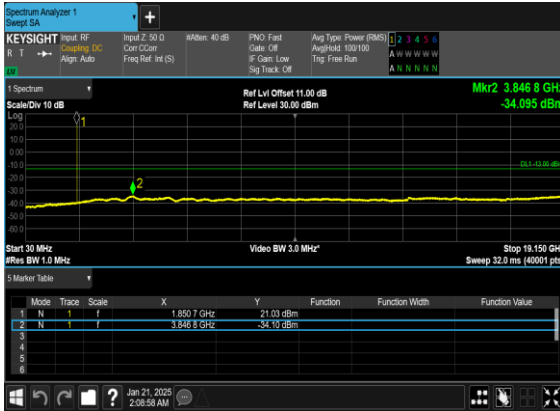
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
25	15	5	370500	1852.5	DFT-s-OFDM BPSK	1@0	see graph	---
25	15	5	370500	1852.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
25	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@0	see graph	---
25	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
25	15	5	376500	1882.5	DFT-s-OFDM BPSK	1@0	see graph	---
25	15	5	376500	1882.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
25	15	5	376500	1882.5	DFT-s-OFDM QPSK	1@0	see graph	---
25	15	5	376500	1882.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
25	15	5	382500	1912.5	DFT-s-OFDM BPSK	1@0	see graph	---
25	15	5	382500	1912.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
25	15	5	382500	1912.5	DFT-s-OFDM QPSK	1@0	see graph	---
25	15	5	382500	1912.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
25	15	20	372000	1860.0	DFT-s-OFDM BPSK	1@0	see graph	---
25	15	20	372000	1860.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
25	15	20	372000	1860.0	DFT-s-OFDM QPSK	1@0	see graph	---
25	15	20	372000	1860.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
25	15	20	376500	1882.5	DFT-s-OFDM BPSK	1@0	see graph	---
25	15	20	376500	1882.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	1@0	see graph	---
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	1@0	see graph	PASS



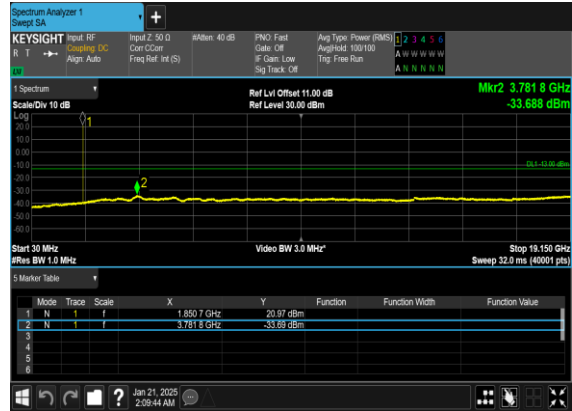
25	15	20	381000	1905.0	DFT-s-OFDM BPSK	1@0	see graph	---
25	15	20	381000	1905.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
25	15	20	381000	1905.0	DFT-s-OFDM QPSK	1@0	see graph	---
25	15	20	381000	1905.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
25	15	40	374000	1870.0	DFT-s-OFDM BPSK	1@0	see graph	---
25	15	40	374000	1870.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
25	15	40	374000	1870.0	DFT-s-OFDM QPSK	1@0	see graph	---
25	15	40	374000	1870.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
25	15	40	376500	1882.5	DFT-s-OFDM BPSK	1@0	see graph	---
25	15	40	376500	1882.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
25	15	40	376500	1882.5	DFT-s-OFDM QPSK	1@0	see graph	---
25	15	40	376500	1882.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
25	15	40	379000	1895.0	DFT-s-OFDM BPSK	1@0	see graph	---
25	15	40	379000	1895.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
25	15	40	379000	1895.0	DFT-s-OFDM QPSK	1@0	see graph	---
25	15	40	379000	1895.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



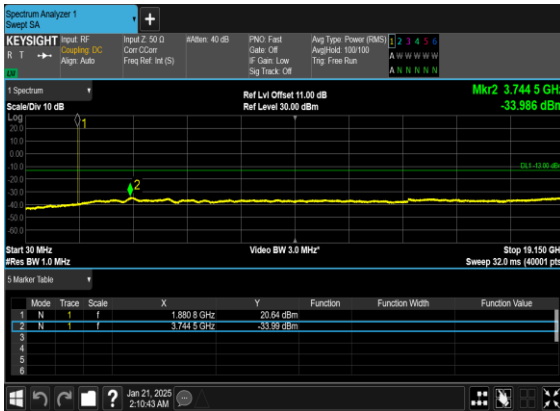
N25(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



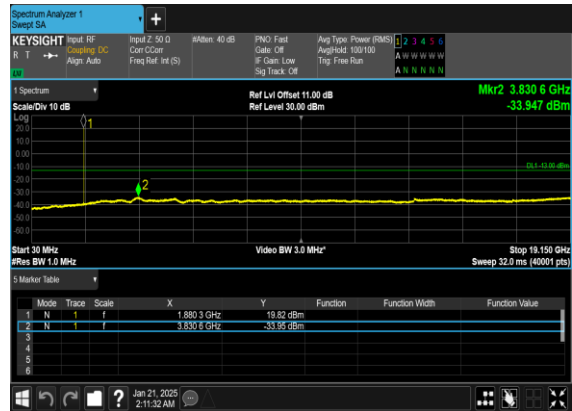
N25(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N25(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

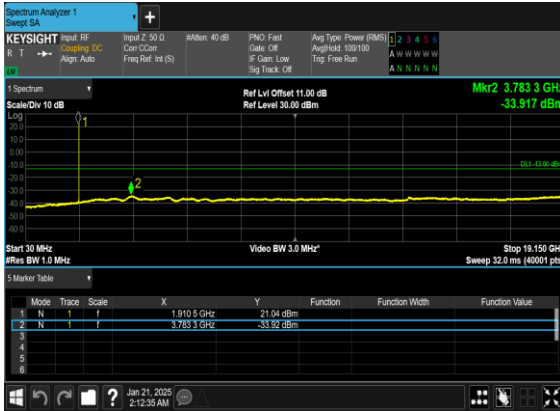


N25(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH





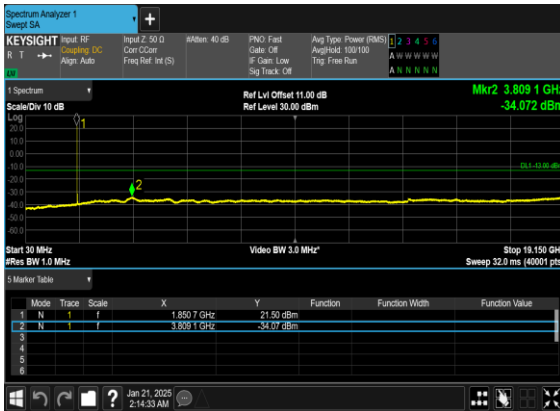
N25(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N25(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N25(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N25(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

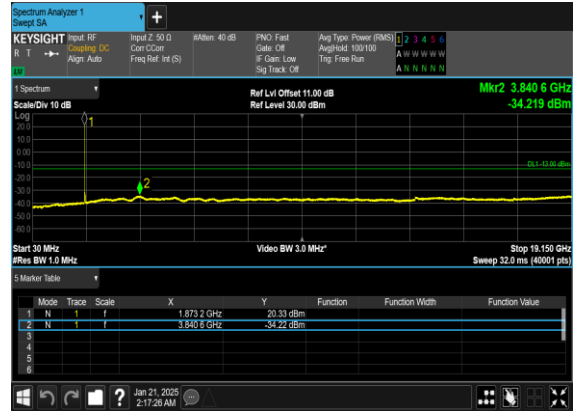




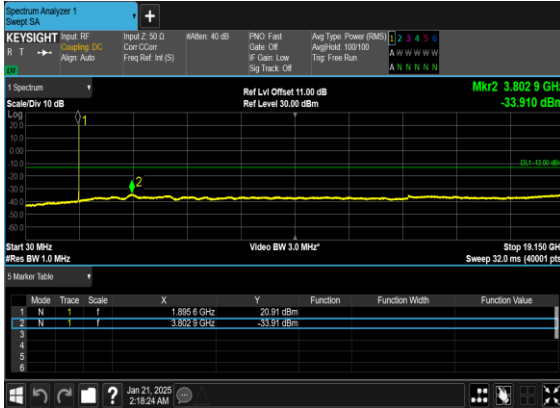
N25(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



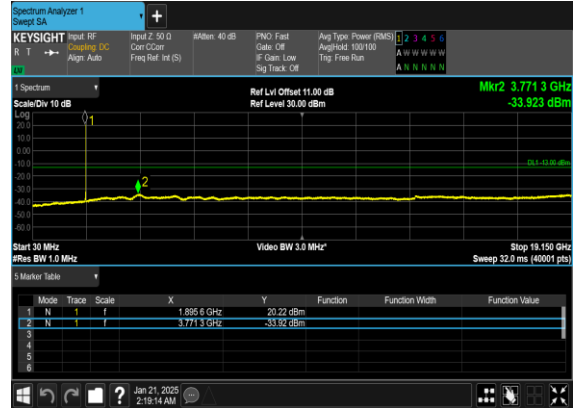
N25(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N25(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

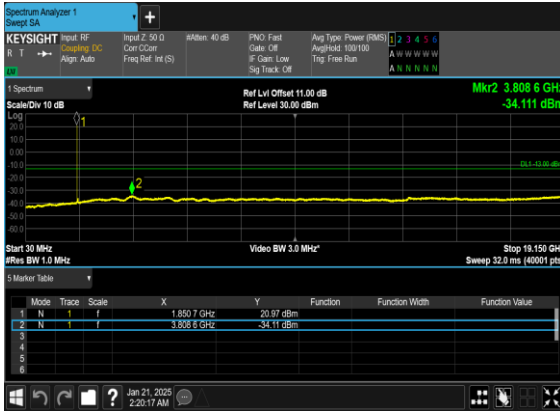


N25(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

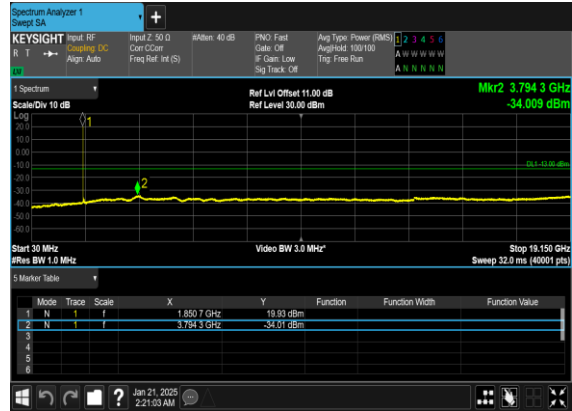




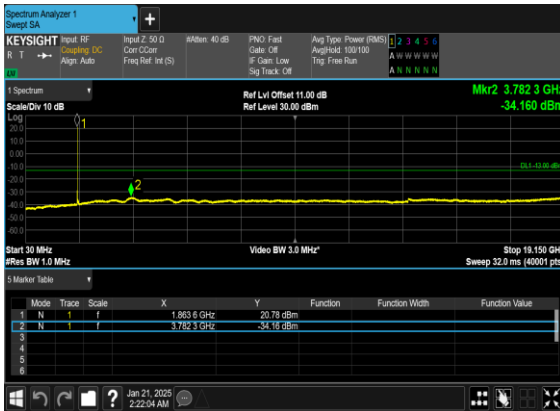
N25(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



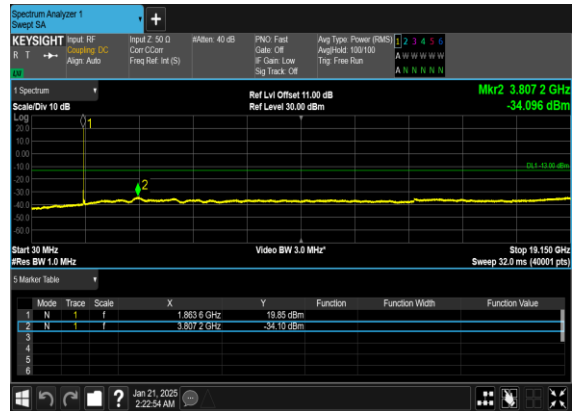
N25(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N25(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

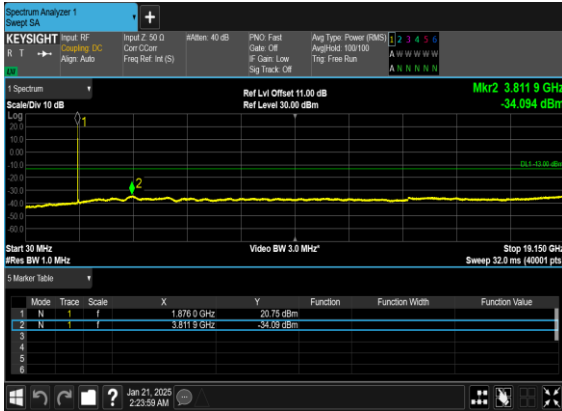


N25(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

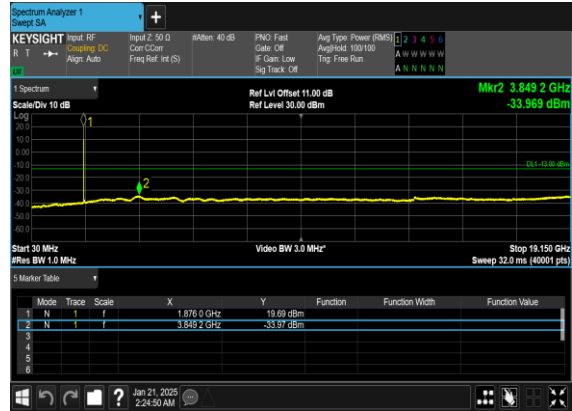




N25(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N25(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



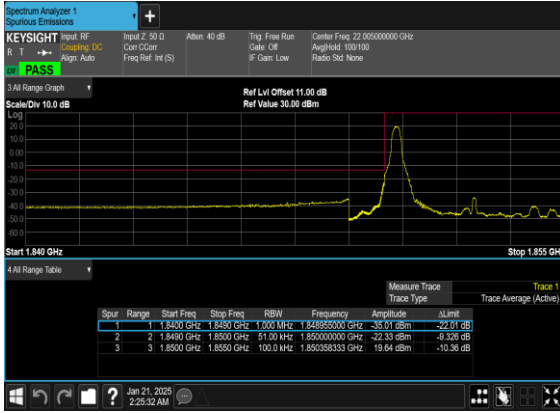


Conducted Band Edge

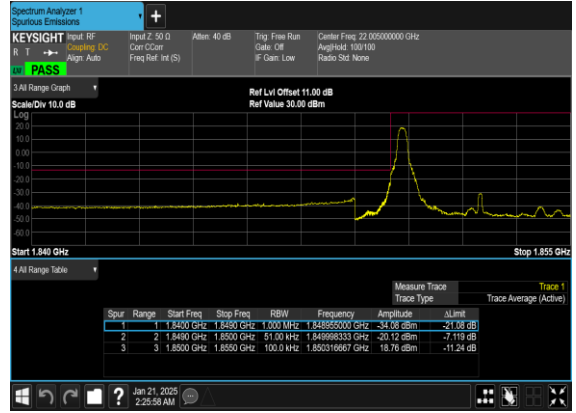
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
25	15	5	370500	1852.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
25	15	5	370500	1852.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
25	15	5	370500	1852.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
25	15	5	370500	1852.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
25	15	5	382500	1912.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
25	15	5	382500	1912.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
25	15	5	382500	1912.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
25	15	5	382500	1912.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
25	15	20	372000	1860.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
25	15	20	372000	1860.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
25	15	20	372000	1860.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
25	15	20	372000	1860.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
25	15	20	381000	1905.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
25	15	20	381000	1905.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
25	15	20	381000	1905.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
25	15	20	381000	1905.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
25	15	40	374000	1870.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
25	15	40	374000	1870.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
25	15	40	374000	1870.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
25	15	40	374000	1870.0	DFT-s-OFDM QPSK	216@0	see graph	PASS
25	15	40	379000	1895.0	DFT-s-OFDM BPSK	1@215	see graph	PASS
25	15	40	379000	1895.0	DFT-s-OFDM QPSK	1@215	see graph	PASS
25	15	40	379000	1895.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
25	15	40	379000	1895.0	DFT-s-OFDM QPSK	216@0	see graph	PASS



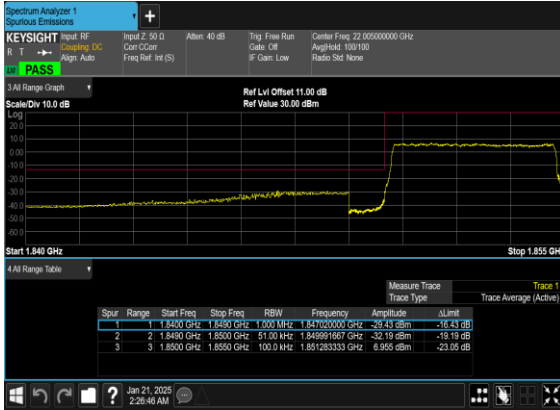
N25(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



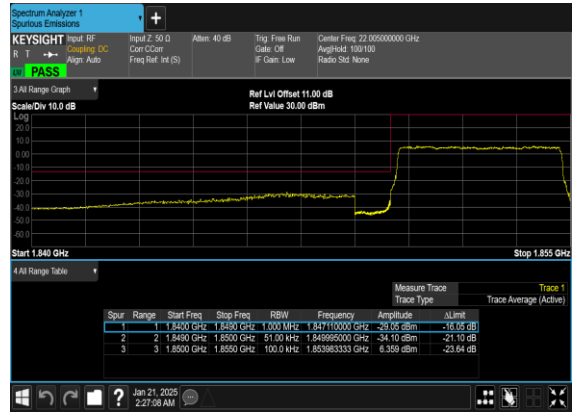
N25(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N25(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

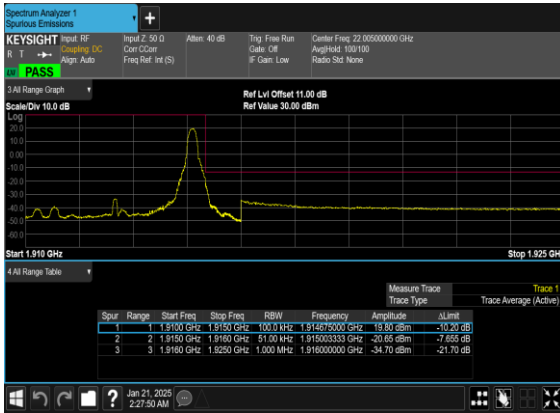


N25(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

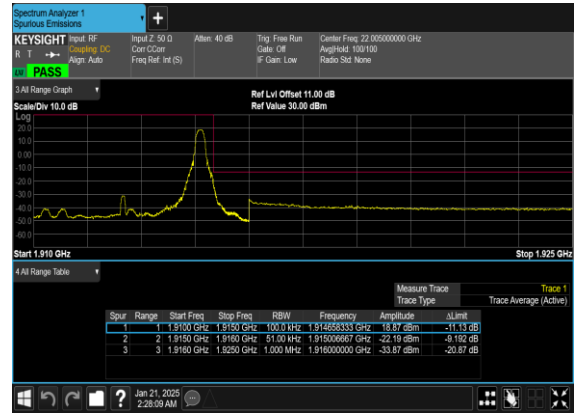




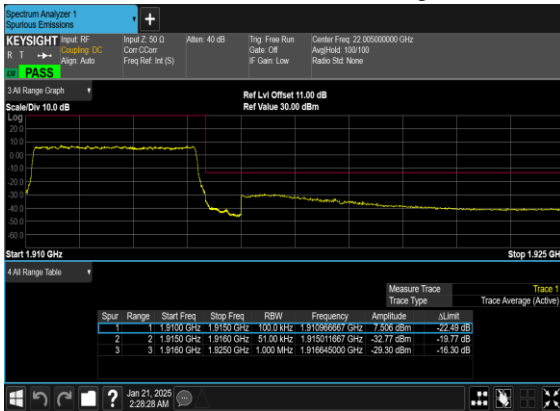
N25(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



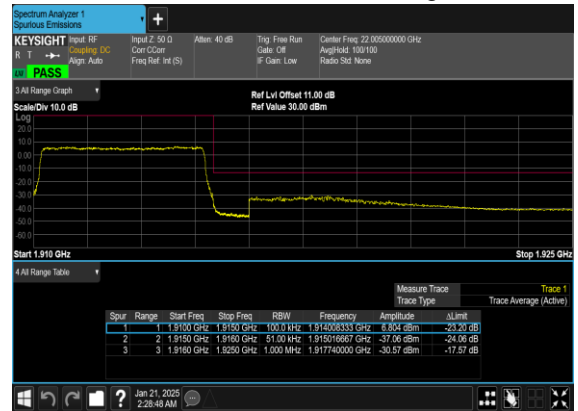
N25(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N25(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

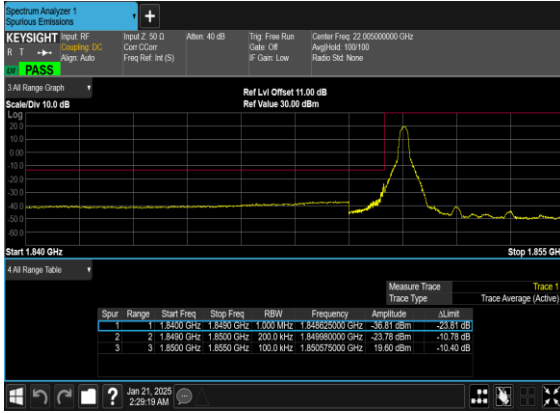


N25(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

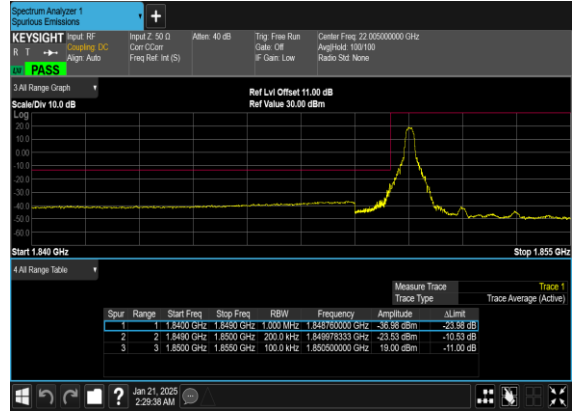




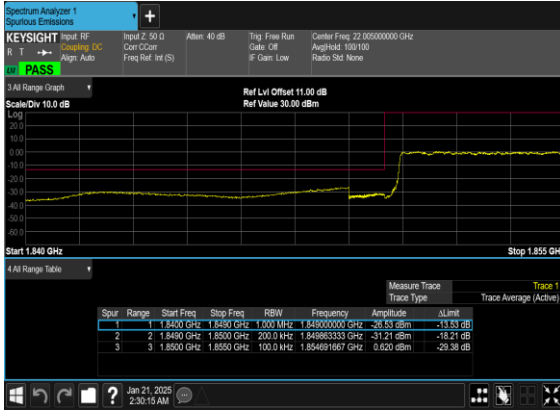
N25(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



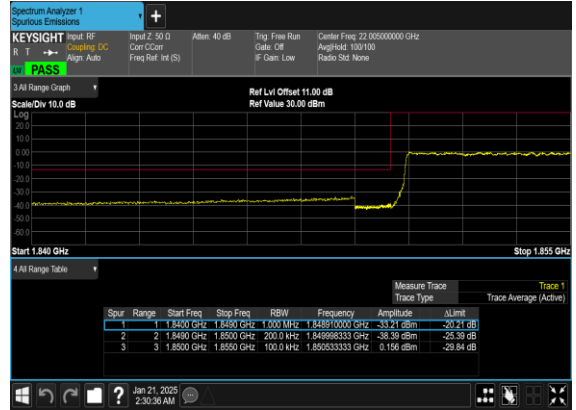
N25(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N25(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

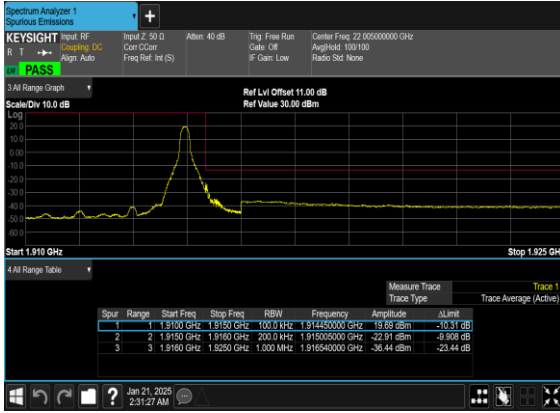


N25(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

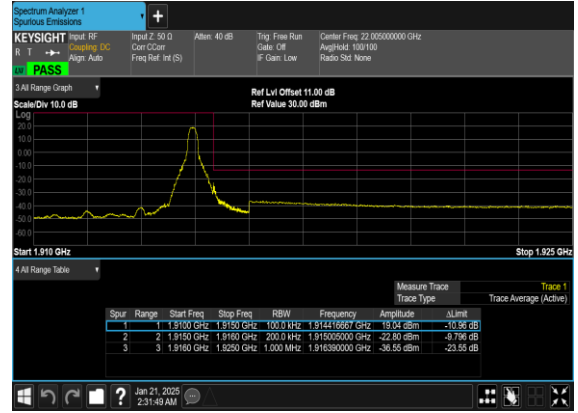




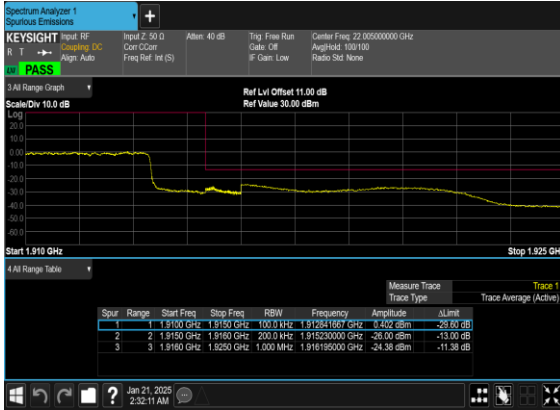
N25(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



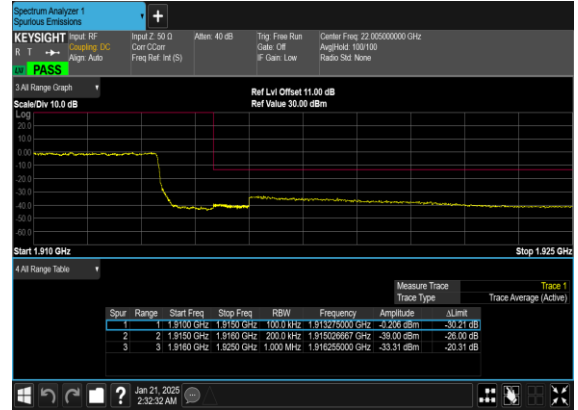
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N25(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

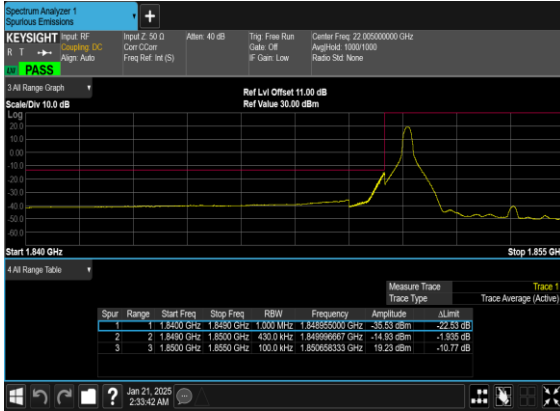


N25(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

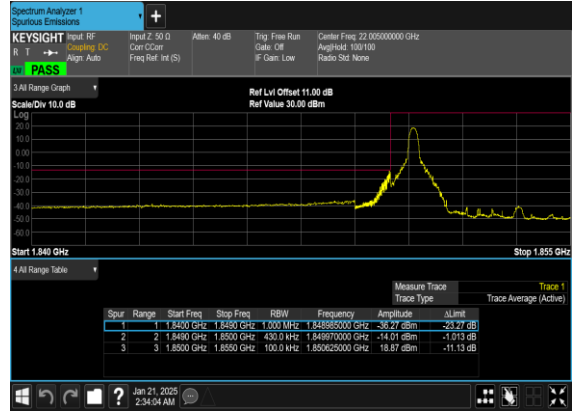




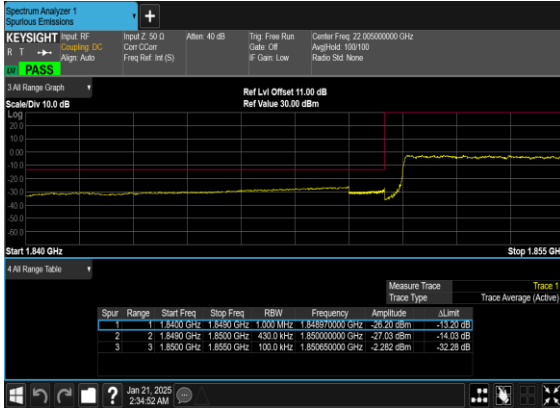
N25(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



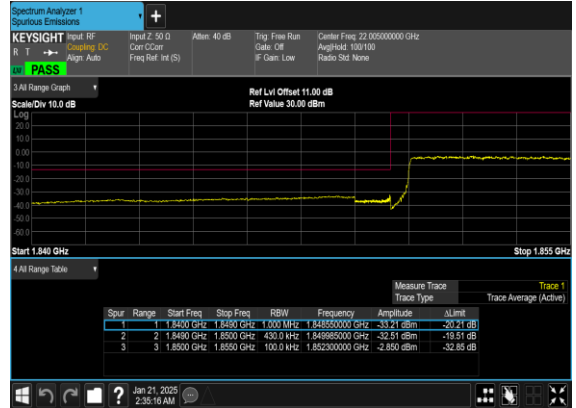
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N25(40M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

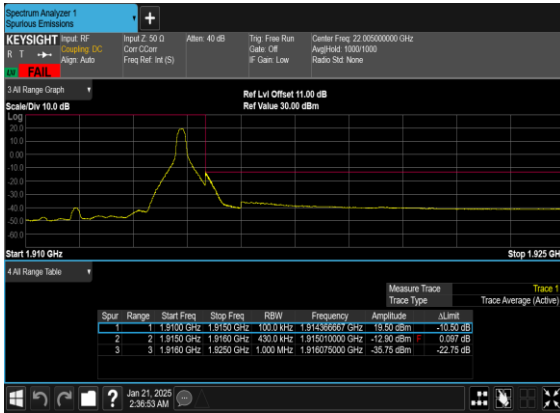


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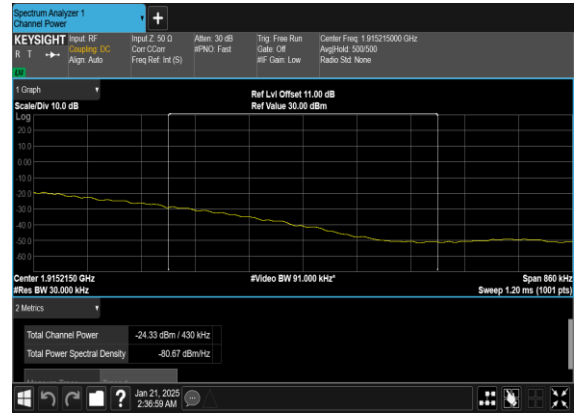




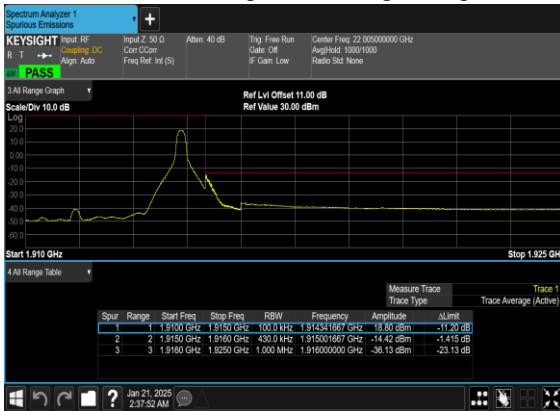
N25(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



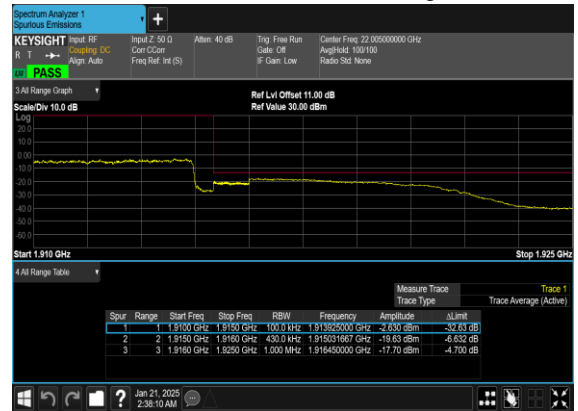
N25(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_CHP_PASS



N25(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N25(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH





N25(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N25 MIMO-ANT1

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	11.7	PASS	NV
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	14.7	PASS	LV
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	11.3	PASS	HV
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	15.5	PASS	-30°C
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	15.9	PASS	-20°C
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	15.6	PASS	-10°C
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	17.2	PASS	0°C
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	12.8	PASS	10°C
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	11.7	PASS	20°C
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	12.5	PASS	30°C
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	15.6	PASS	40°C
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	10.6	PASS	50°C

|MAX(Δf)| = 17.2 Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	1850.489483	$\geq 1850 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	1913.391617	$\leq 1915 \text{ MHz}$	



Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
25	15	20	376500	1882.5	DFT-s-OFDM PI/2 BPSK	100@0	4.16	13	PASS
25	15	20	376500	1882.5	DFT-s-OFDM QPSK	100@0	5.2	13	PASS

N25(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N25(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH





Occupied Bandwidth

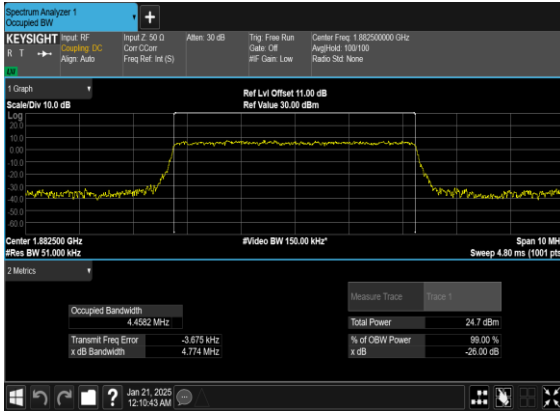
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
25	15	5	376500	1882.5	CP-OFDM QPSK	25@0	4.4582	4.774
25	15	5	376500	1882.5	CP-OFDM 16 QAM	25@0	4.4644	4.788
25	15	5	376500	1882.5	CP-OFDM 64 QAM	25@0	4.4671	4.749
25	15	5	376500	1882.5	CP-OFDM 256 QAM	25@0	4.4735	4.774
25	15	10	376500	1882.5	CP-OFDM QPSK	52@0	9.2555	9.727
25	15	10	376500	1882.5	CP-OFDM 16 QAM	52@0	9.2722	9.731
25	15	10	376500	1882.5	CP-OFDM 64 QAM	52@0	9.282	9.696
25	15	10	376500	1882.5	CP-OFDM 256 QAM	52@0	9.2594	9.733
25	15	15	376500	1882.5	CP-OFDM QPSK	79@0	14.106	14.69
25	15	15	376500	1882.5	CP-OFDM 16 QAM	79@0	14.086	14.72
25	15	15	376500	1882.5	CP-OFDM 64 QAM	79@0	14.126	14.75
25	15	15	376500	1882.5	CP-OFDM 256 QAM	79@0	14.072	14.67
25	15	20	376500	1882.5	CP-OFDM QPSK	106@0	18.89	19.61
25	15	20	376500	1882.5	CP-OFDM 16 QAM	106@0	18.914	19.72
25	15	20	376500	1882.5	CP-OFDM 64 QAM	106@0	18.889	19.58
25	15	20	376500	1882.5	CP-OFDM 256 QAM	106@0	18.886	19.71
25	15	25	376500	1882.5	CP-OFDM QPSK	133@0	23.747	24.69
25	15	25	376500	1882.5	CP-OFDM 16 QAM	133@0	23.704	24.68
25	15	25	376500	1882.5	CP-OFDM 64 QAM	133@0	23.764	24.71
25	15	25	376500	1882.5	CP-OFDM 256 QAM	133@0	23.727	24.64
25	15	30	376500	1882.5	CP-OFDM QPSK	160@0	28.546	29.52
25	15	30	376500	1882.5	CP-OFDM 16 QAM	160@0	28.54	29.65



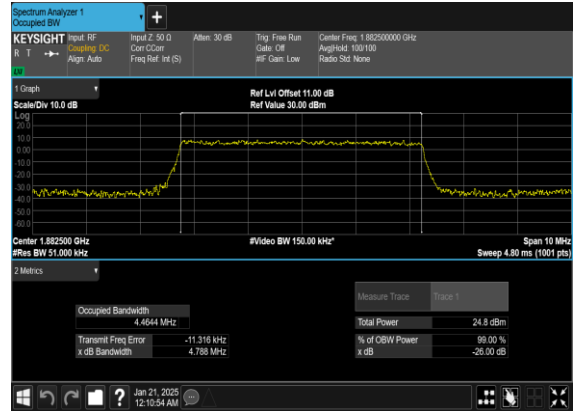
25	15	30	376500	1882.5	CP-OFDM 64 QAM	160@0	28.54	29.57
25	15	30	376500	1882.5	CP-OFDM 256 QAM	160@0	28.549	29.69
25	15	35	376500	1882.5	CP-OFDM QPSK	188@0	33.511	34.69
25	15	35	376500	1882.5	CP-OFDM 16 QAM	188@0	33.496	34.7
25	15	35	376500	1882.5	CP-OFDM 64 QAM	188@0	33.573	34.73
25	15	35	376500	1882.5	CP-OFDM 256 QAM	188@0	33.519	34.79
25	15	40	376500	1882.5	CP-OFDM QPSK	216@0	38.489	40.04
25	15	40	376500	1882.5	CP-OFDM 16 QAM	216@0	38.589	39.87
25	15	40	376500	1882.5	CP-OFDM 64 QAM	216@0	38.543	39.94
25	15	40	376500	1882.5	CP-OFDM 256 QAM	216@0	38.55	39.91



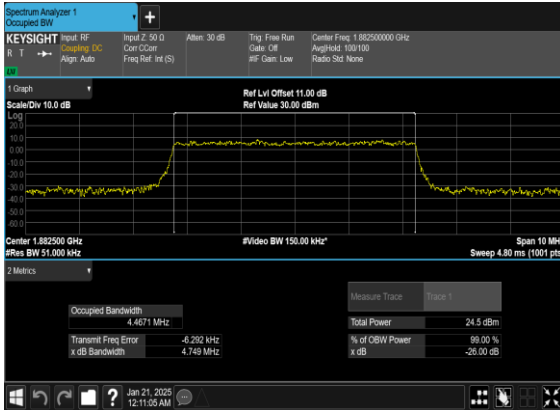
N25(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



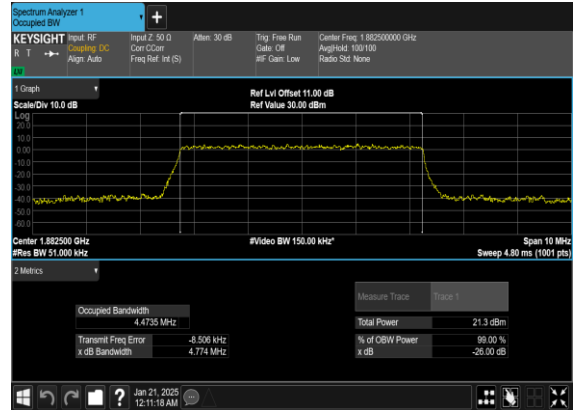
N25(5M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(5M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

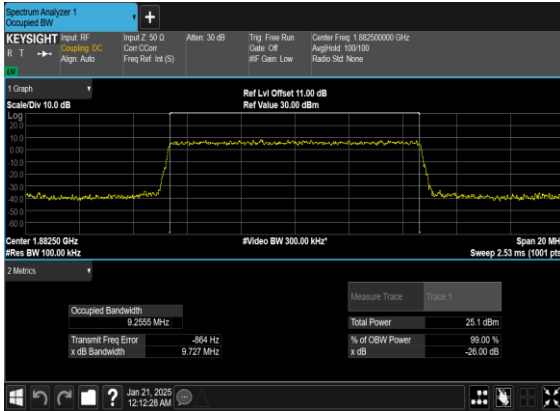


N25(5M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

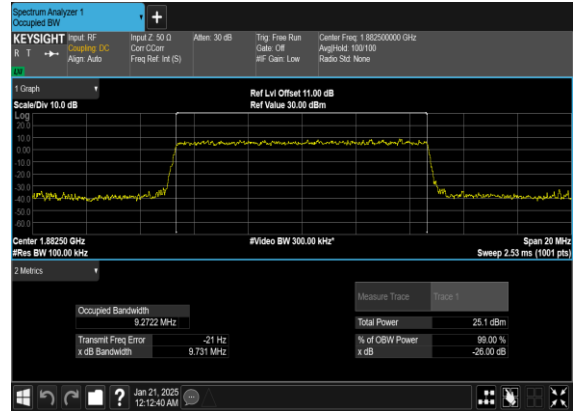




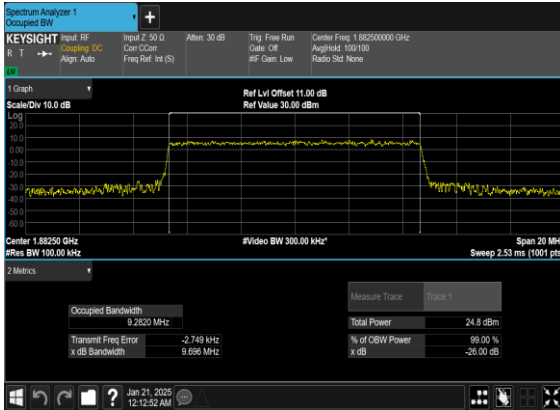
N25(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



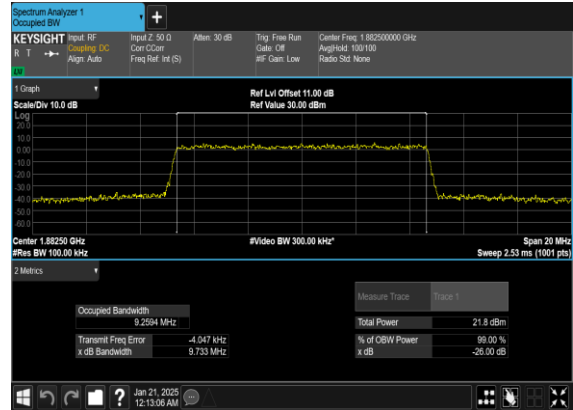
N25(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

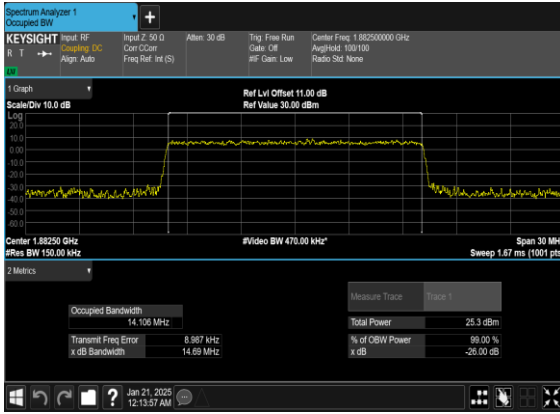


N25(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

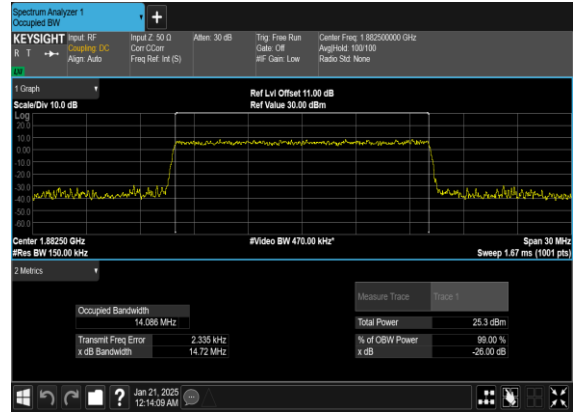




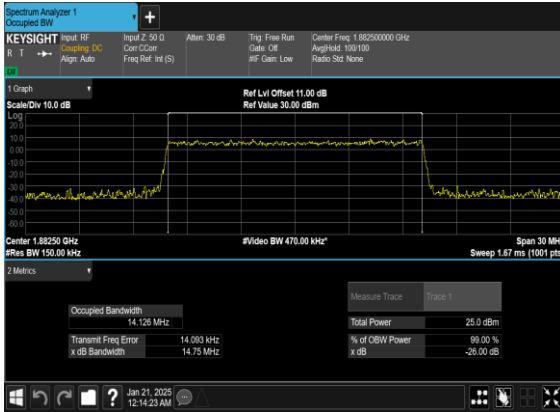
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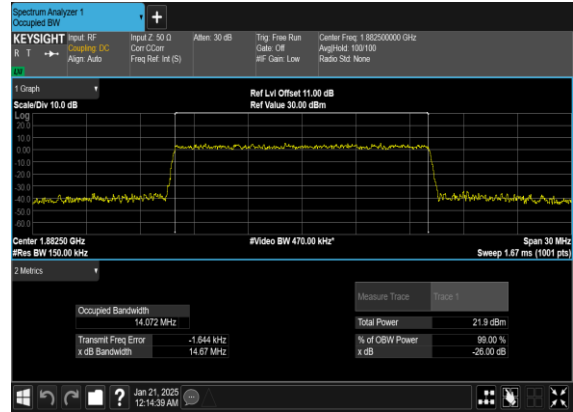
N25(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(15M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

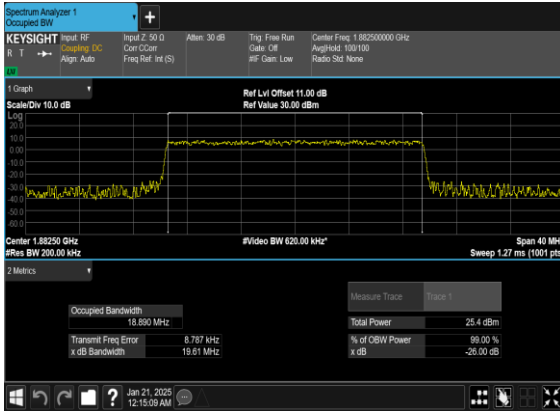


N25(15M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

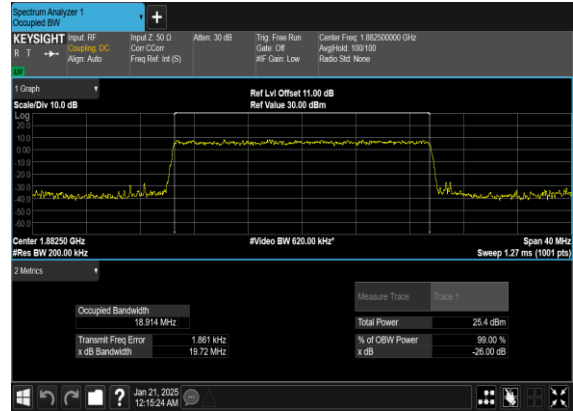




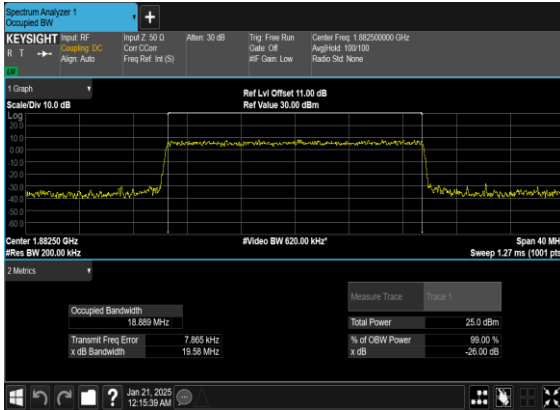
N25(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



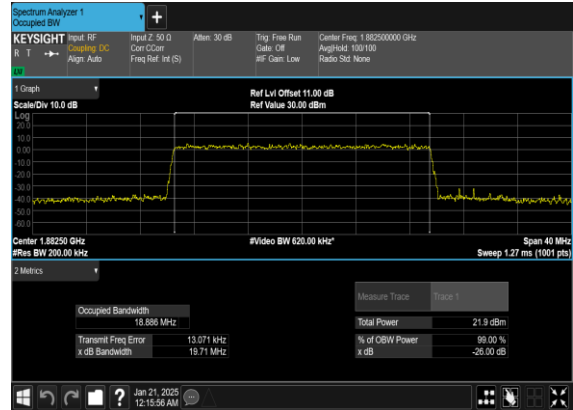
N25(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

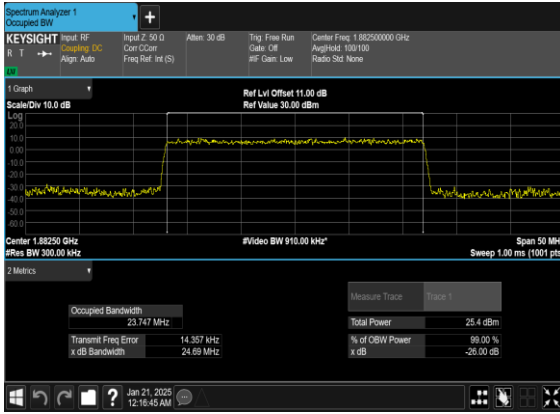


N25(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

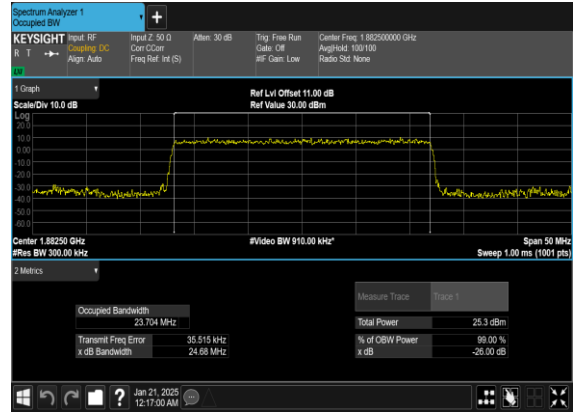




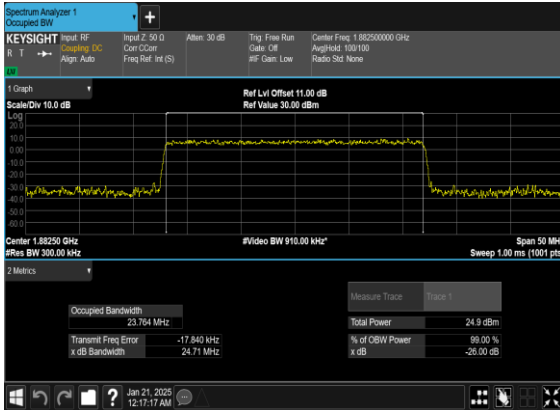
N25(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



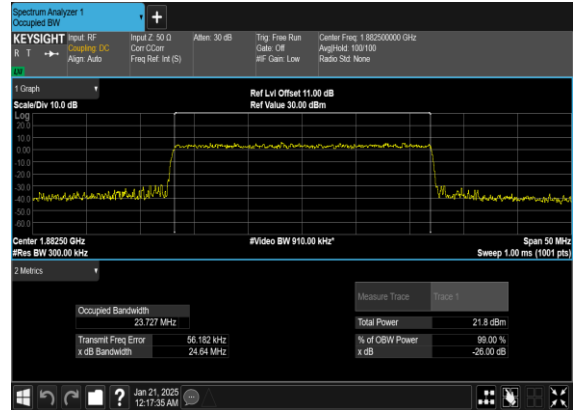
N25(25M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(25M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

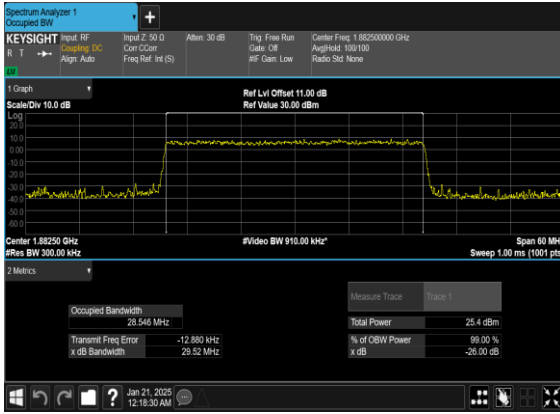


N25(25M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

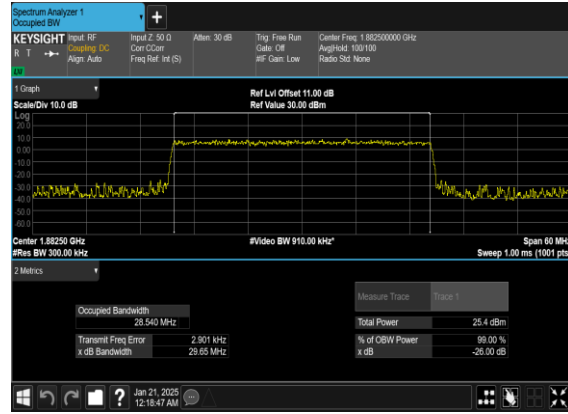




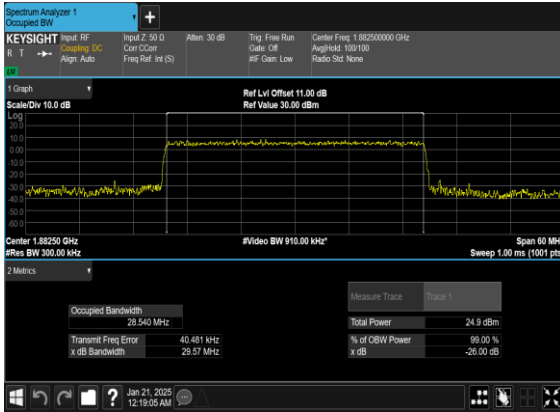
N25(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N25(30M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N25(30M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N25(30M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

