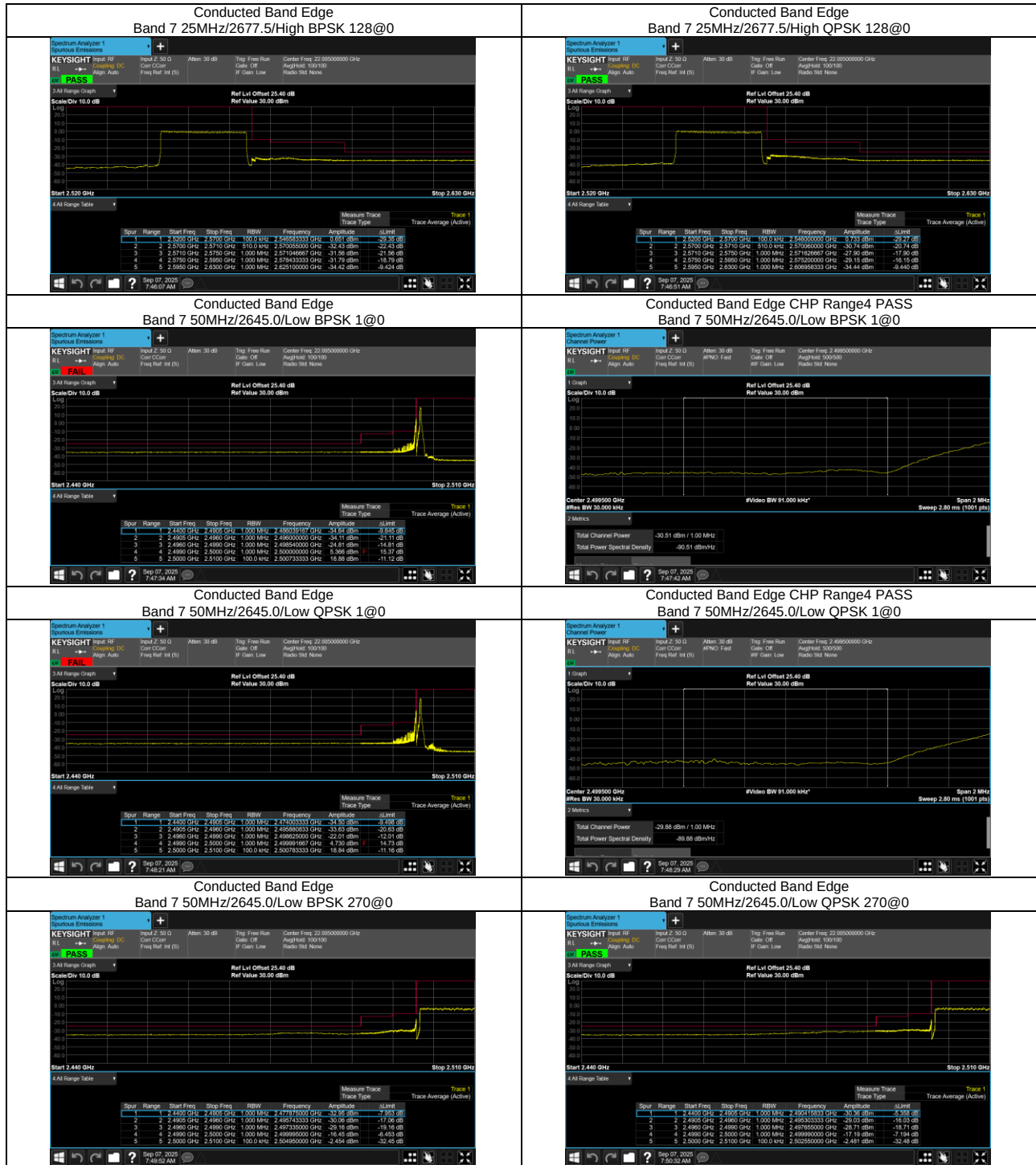
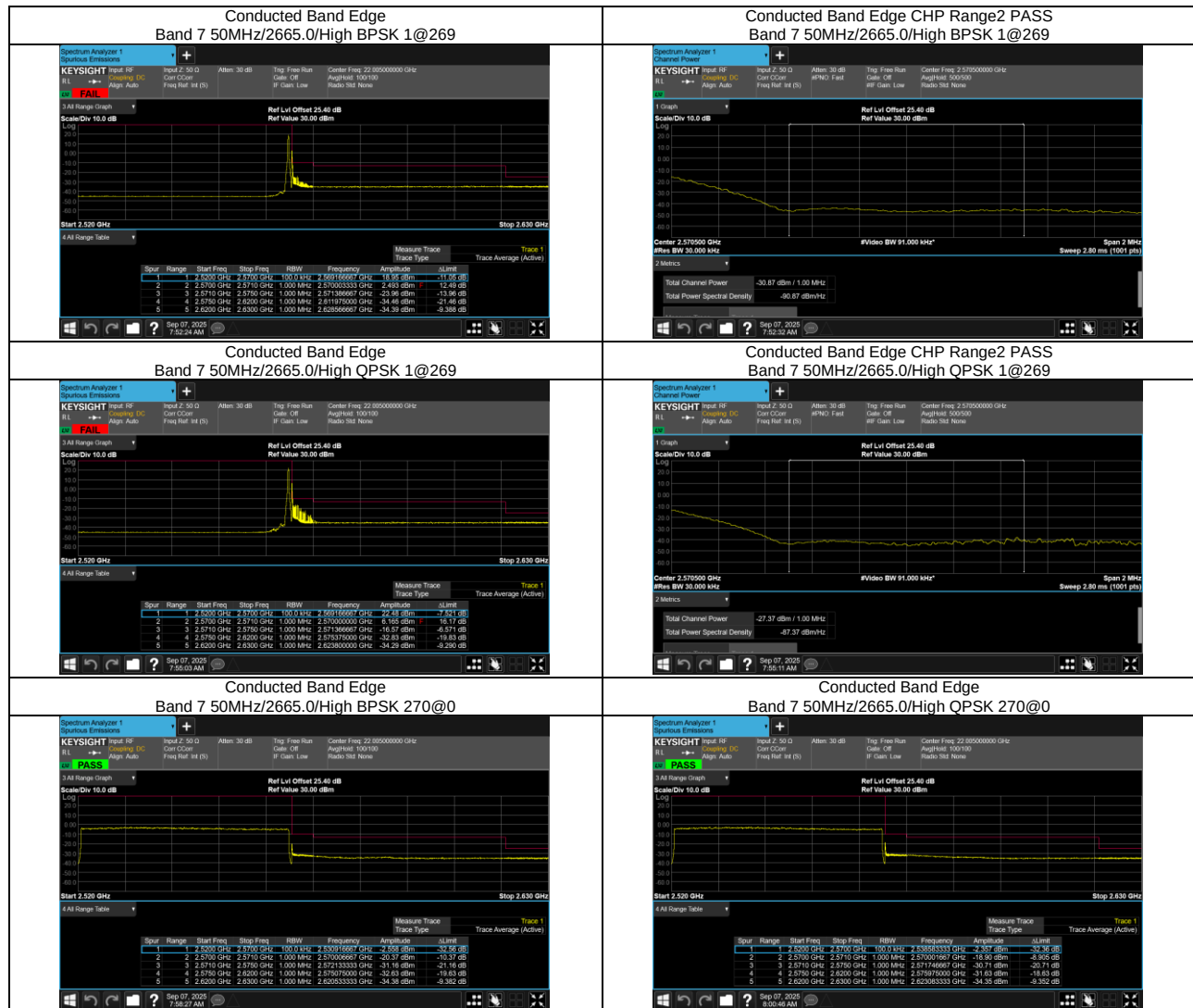








FR1 N7 PA (Reference Designator) ANT4

+ LTE Band: 2 (ANT8)

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0062	PASS	NV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0000	PASS	LV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0008	PASS	HV
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0000	PASS	-30°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0020	PASS	-20°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0024	PASS	-10°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0018	PASS	0°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0002	PASS	10°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0012	PASS	20°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0010	PASS	30°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0023	PASS	40°C
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	0.0019	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	3.8	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM PI/2 BPSK	1@0	3.71	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	100@0	4.76	13	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	4.84	13	PASS



B2_N7(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



B2_N7(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CH



B2_N7(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



B2_N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



**Occupied Bandwidth**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
7	15	5	507000	2535.0	CP-OFDM QPSK	25@0	4.4834	5.204
7	15	5	507000	2535.0	CP-OFDM 16 QAM	25@0	4.4841	4.995
7	15	5	507000	2535.0	CP-OFDM 64 QAM	25@0	4.4819	5.059
7	15	5	507000	2535.0	CP-OFDM 256 QAM	25@0	4.473	5.087
7	15	10	507000	2535.0	CP-OFDM QPSK	52@0	9.2717	9.961
7	15	10	507000	2535.0	CP-OFDM 16 QAM	52@0	9.2718	9.999
7	15	10	507000	2535.0	CP-OFDM 64 QAM	52@0	9.2566	9.967
7	15	10	507000	2535.0	CP-OFDM 256 QAM	52@0	9.2991	10.0
7	15	15	507000	2535.0	CP-OFDM QPSK	79@0	14.086	14.83
7	15	15	507000	2535.0	CP-OFDM 16 QAM	79@0	14.074	15.05
7	15	15	507000	2535.0	CP-OFDM 64 QAM	79@0	14.092	14.95
7	15	15	507000	2535.0	CP-OFDM 256 QAM	79@0	14.087	14.79
7	15	20	507000	2535.0	CP-OFDM QPSK	106@0	18.884	19.94
7	15	20	507000	2535.0	CP-OFDM 16 QAM	106@0	18.923	19.89
7	15	20	507000	2535.0	CP-OFDM 64 QAM	106@0	18.888	19.77
7	15	20	507000	2535.0	CP-OFDM 256 QAM	106@0	18.936	19.91
7	15	25	507000	2535.0	CP-OFDM QPSK	133@0	23.72	24.84
7	15	25	507000	2535.0	CP-OFDM 16 QAM	133@0	23.727	24.77
7	15	25	507000	2535.0	CP-OFDM 64 QAM	133@0	23.747	24.82
7	15	25	507000	2535.0	CP-OFDM 256 QAM	133@0	23.764	24.69
7	15	30	507000	2535.0	CP-OFDM QPSK	160@0	28.538	29.9
7	15	30	507000	2535.0	CP-OFDM 16 QAM	160@0	28.566	29.56
7	15	30	507000	2535.0	CP-OFDM 64 QAM	160@0	28.484	29.72
7	15	30	507000	2535.0	CP-OFDM 256 QAM	160@0	28.521	29.72
7	15	35	507000	2535.0	CP-OFDM QPSK	188@0	33.488	34.66
7	15	35	507000	2535.0	CP-OFDM 16 QAM	188@0	33.581	34.74
7	15	35	507000	2535.0	CP-OFDM 64 QAM	188@0	33.483	34.83
7	15	35	507000	2535.0	CP-OFDM 256 QAM	188@0	33.498	34.7
7	15	40	507000	2535.0	CP-OFDM QPSK	216@0	38.491	39.89
7	15	40	507000	2535.0	CP-OFDM 16 QAM	216@0	38.512	39.83
7	15	40	507000	2535.0	CP-OFDM 64 QAM	216@0	38.557	39.78
7	15	40	507000	2535.0	CP-OFDM 256 QAM	216@0	38.538	40.0



B2_N7(5M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



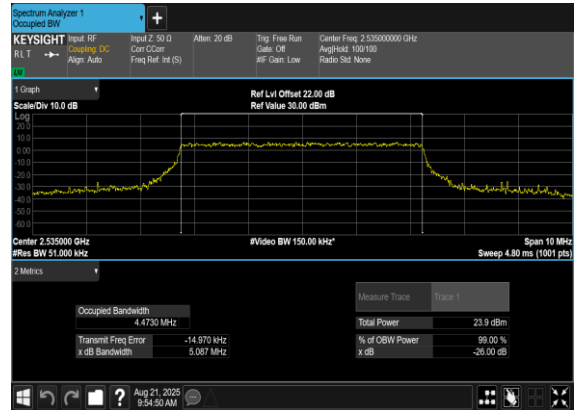
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QAM_Outer_Full_Mid_CH



B2_N7(5M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

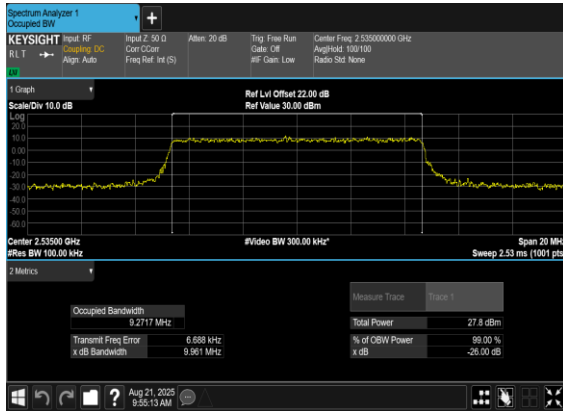


B2_N7(5M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





B2_N7(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



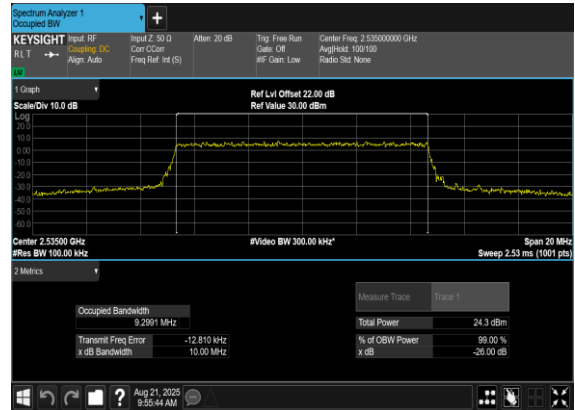
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QAM_Outer_Full_Mid_CH



B2_N7(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

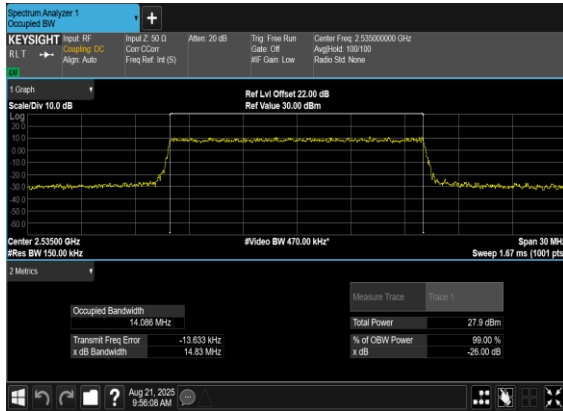


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QAM_Outer_Full_Mid_CH

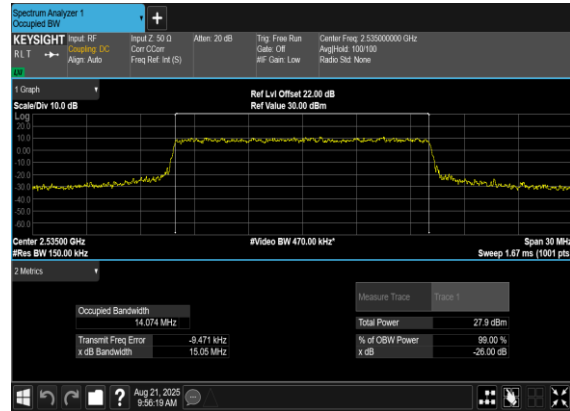




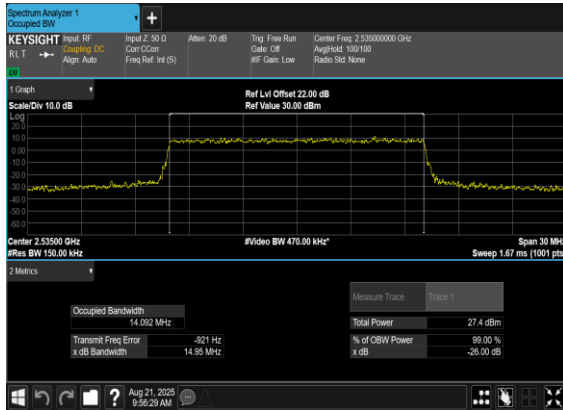
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OFDM_QPSK_Outer_Full_Mid_CH



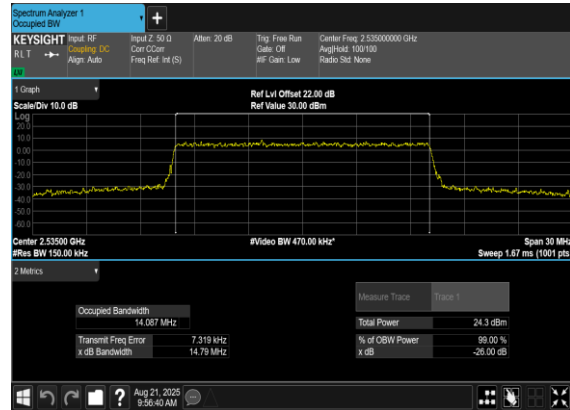
B2_N7(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N7(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

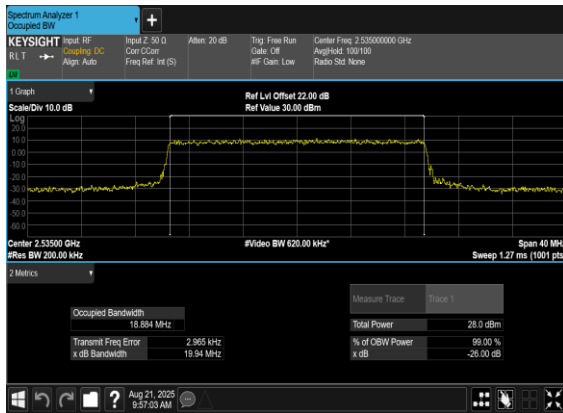


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QAM_Outer_Full_Mid_CH

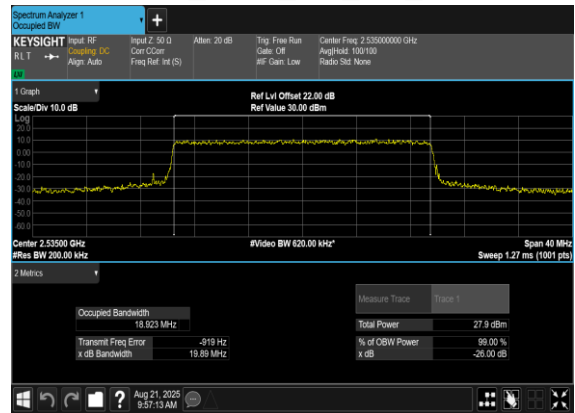




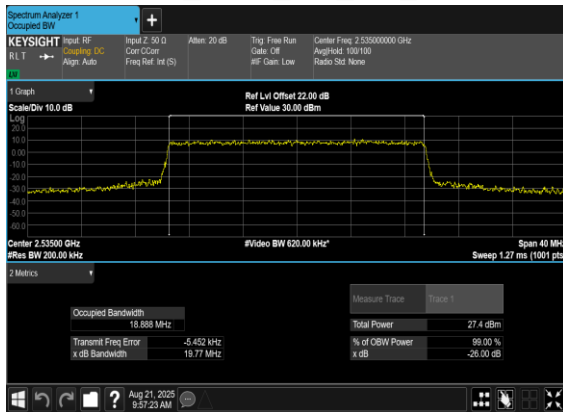
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OFDM_QPSK_Outer_Full_Mid_CH



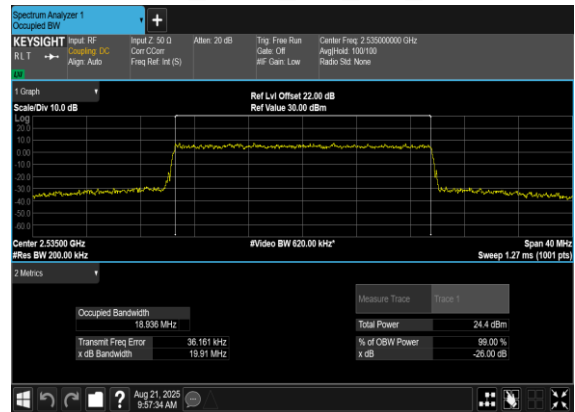
B2_N7(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N7(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

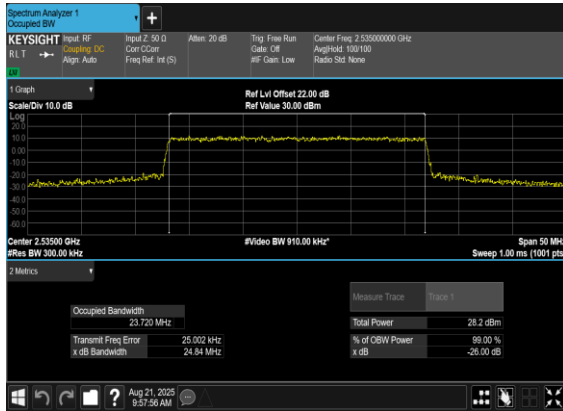


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QAM_Outer_Full_Mid_CH

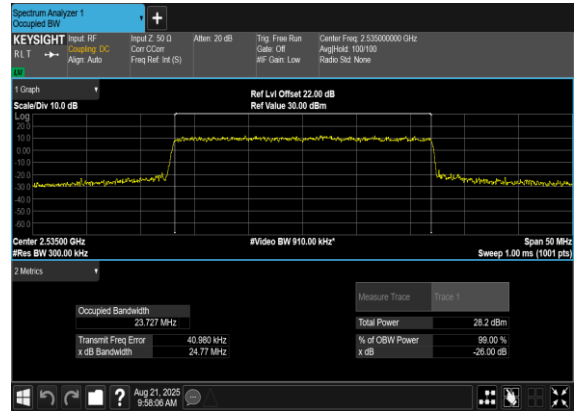




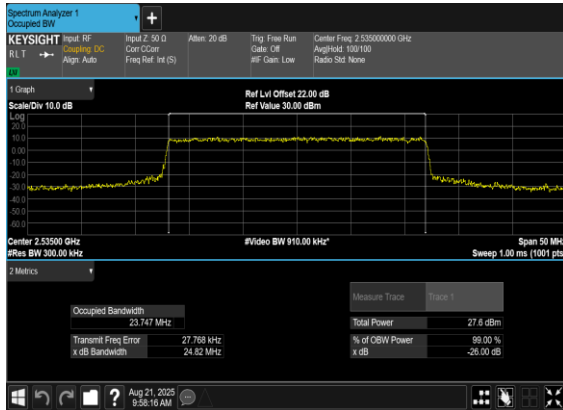
B2_N7(25M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



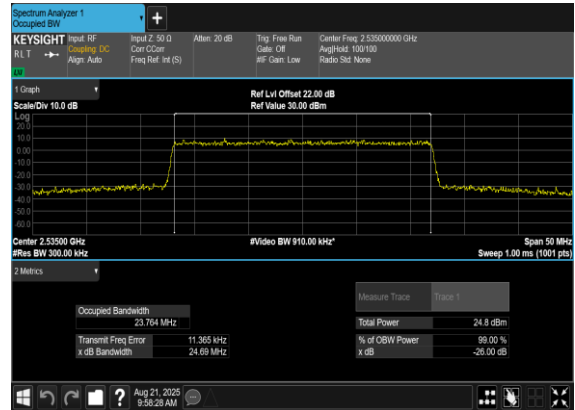
B2_N7(25M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N7(25M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

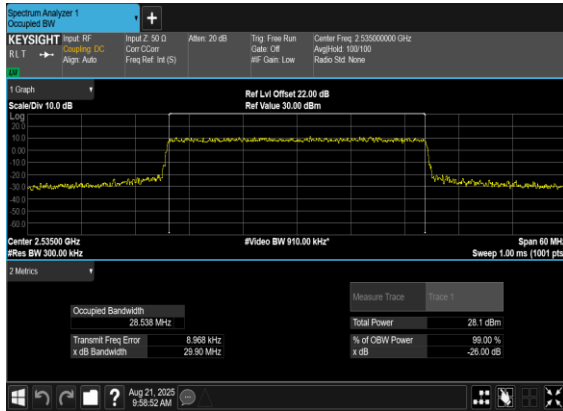


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QAM_Outer_Full_Mid_CH

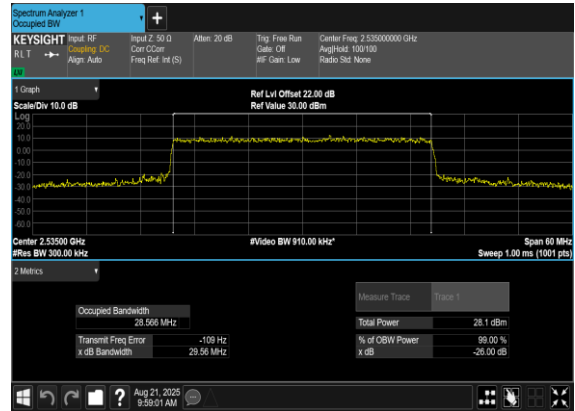




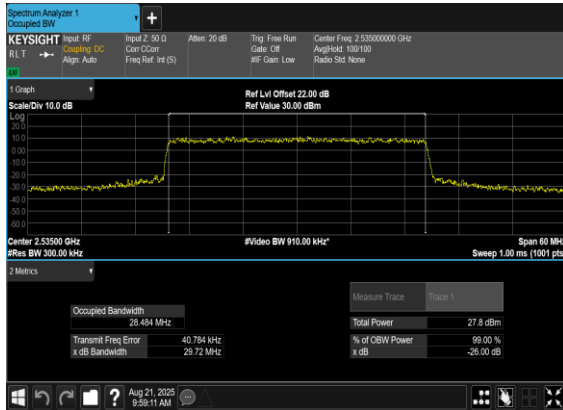
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OFDM_QPSK_Outer_Full_Mid_CH



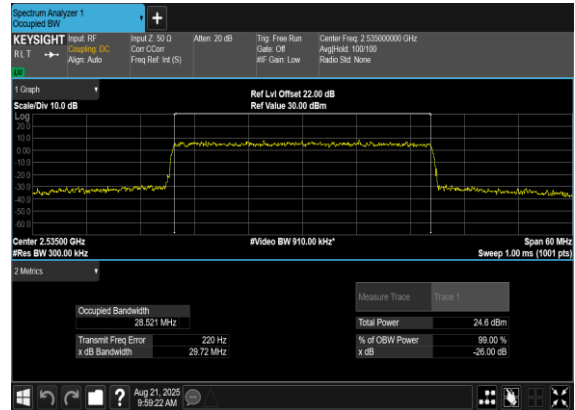
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QAM_Outer_Full_Mid_CH



B2_N7(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

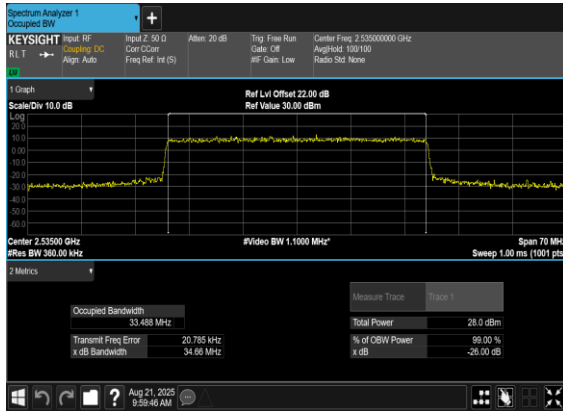


B2_N7(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

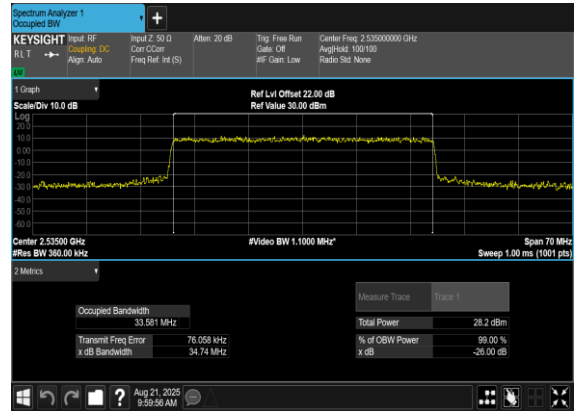




B2_N7(35M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



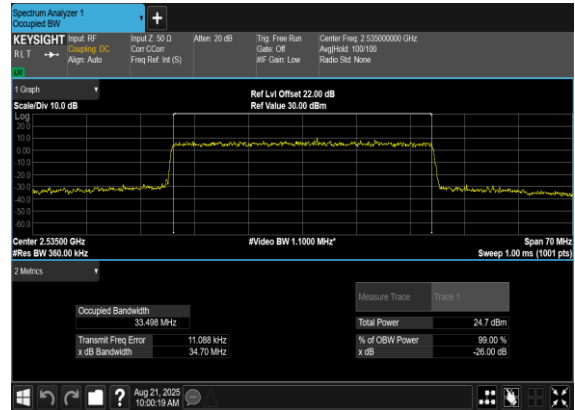
B2_N7(35M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N7(35M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

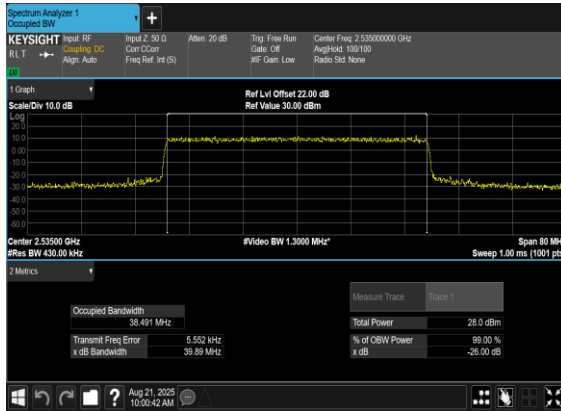


B2_N7(35M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

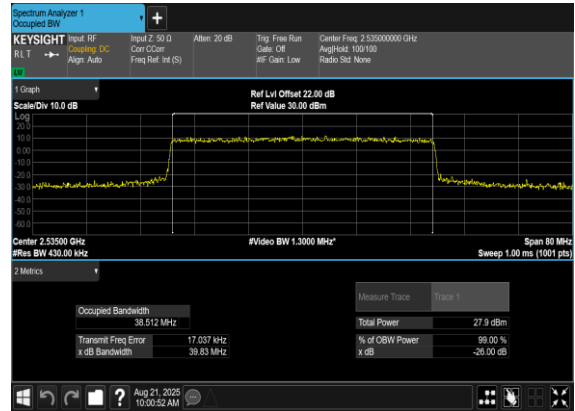




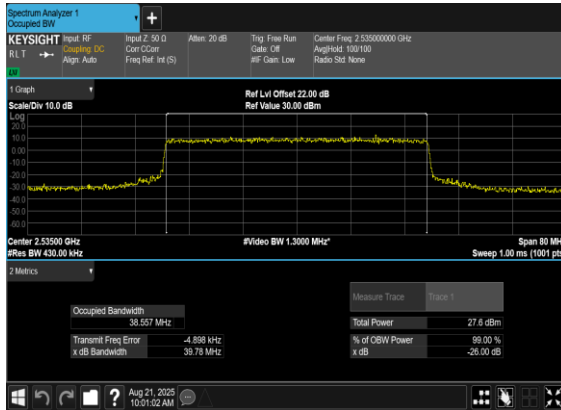
B2_N7(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



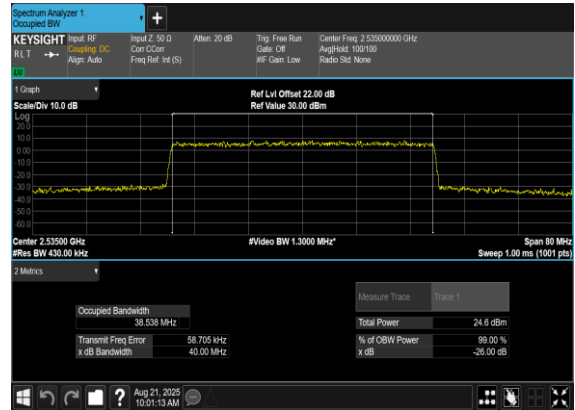
B2_N7(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B2_N7(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



B2_N7(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



**Conducted Spurious Emissions**

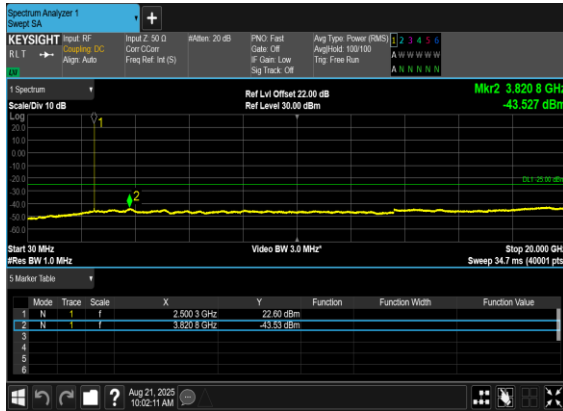
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	PASS



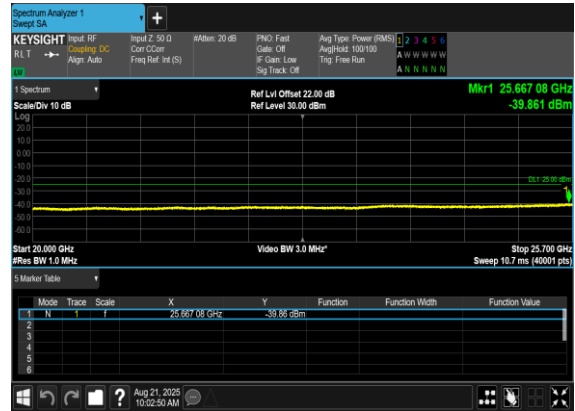
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	40	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	507000	2535.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	40	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	507000	2535.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	1@0	see graph	---
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	1@0	see graph	---
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



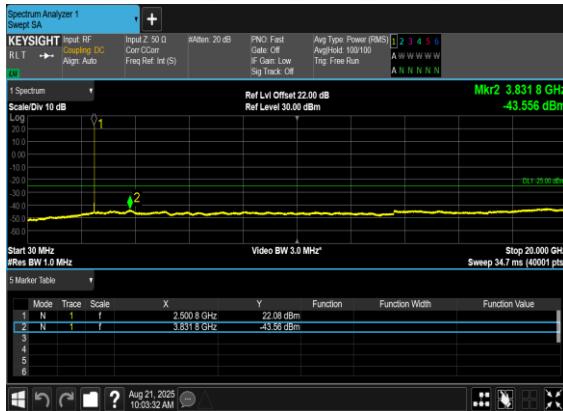
B2_N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



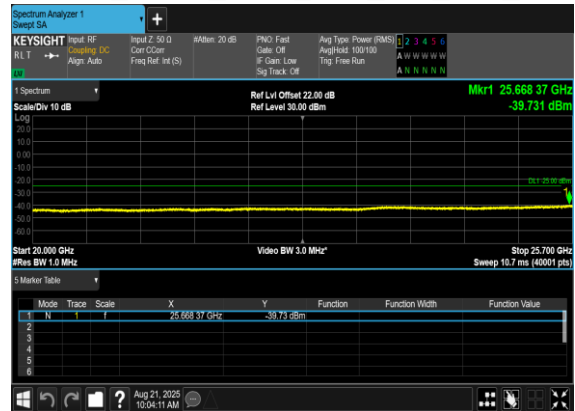
B2_N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

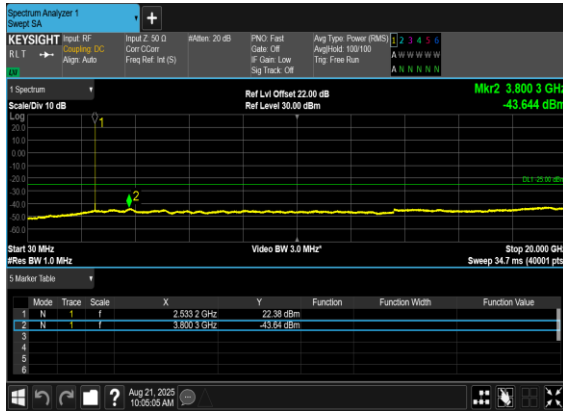


B2_N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH





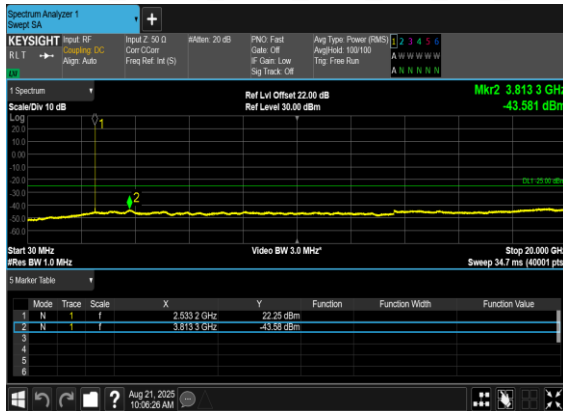
B2_N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



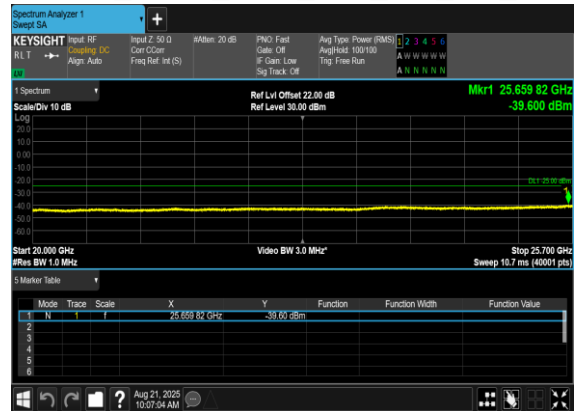
B2_N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



B2_N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

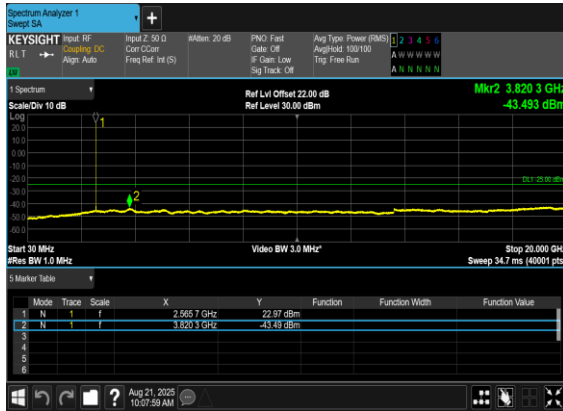


B2_N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

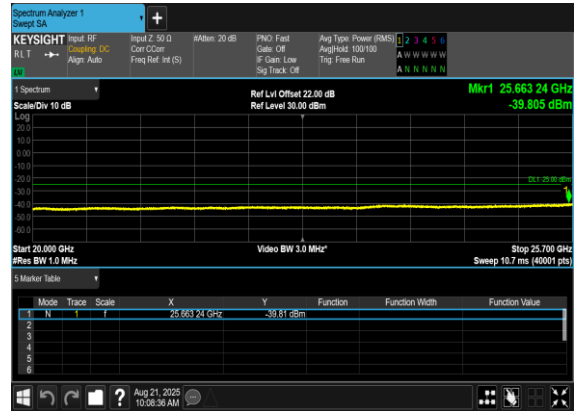




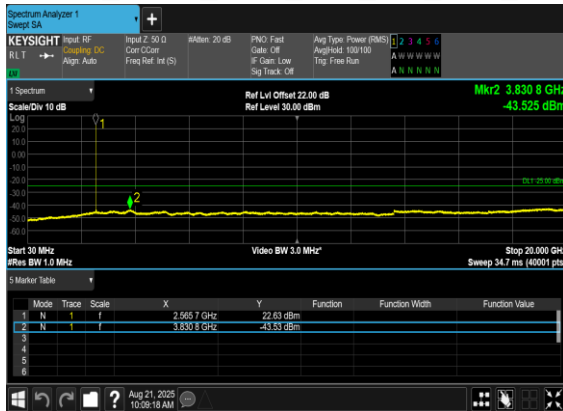
B2_N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



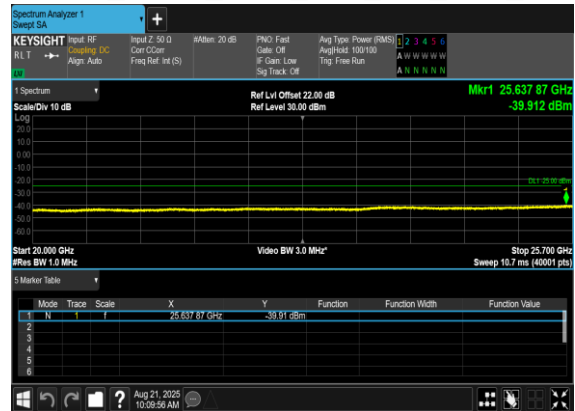
B2_N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



B2_N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

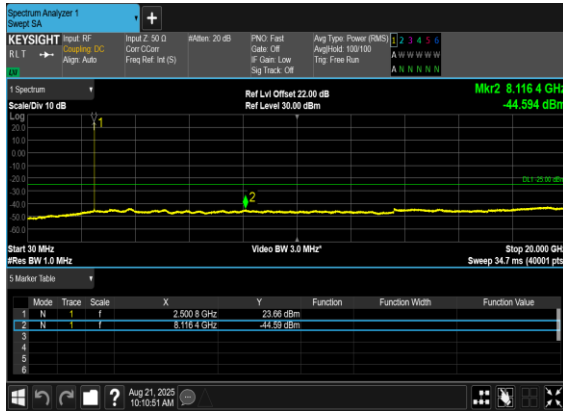


B2_N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

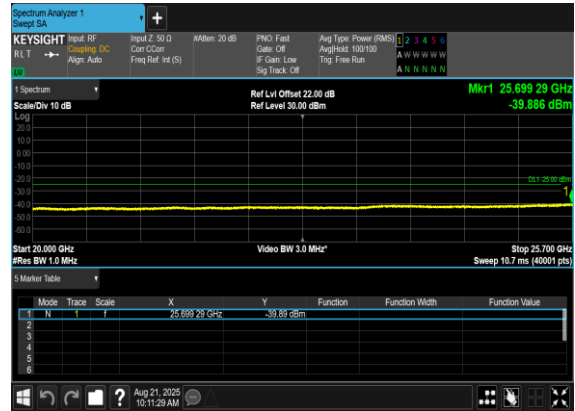




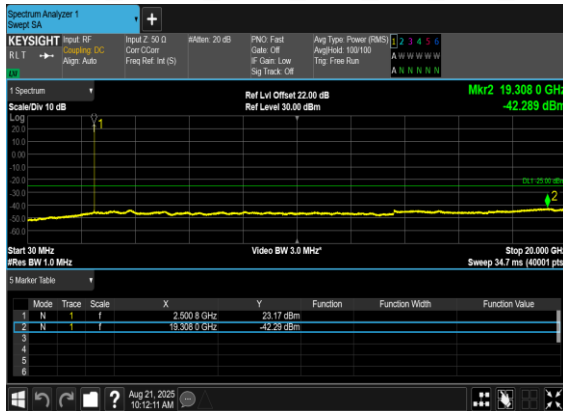
B2_N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



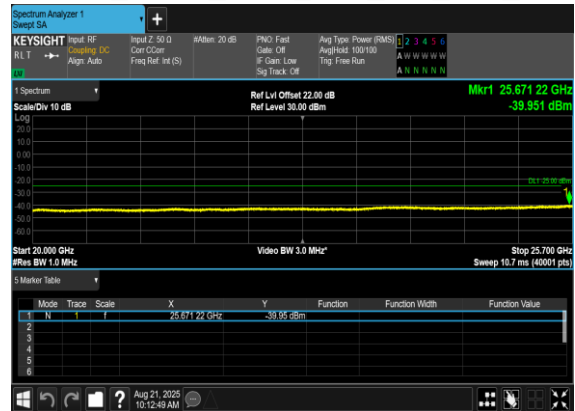
B2_N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

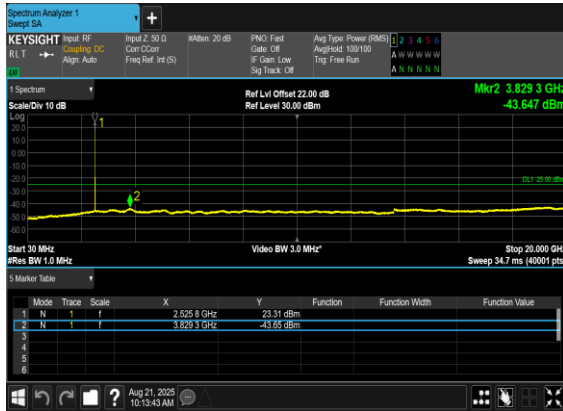


B2_N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

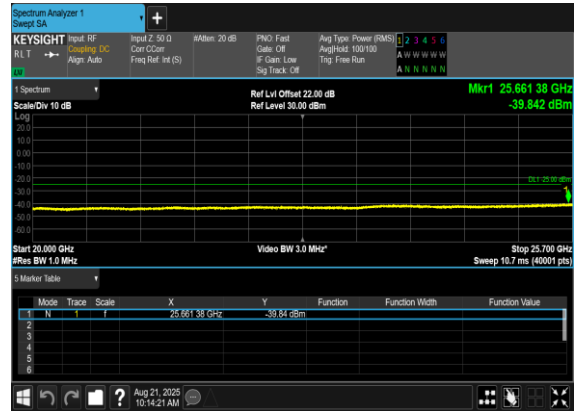




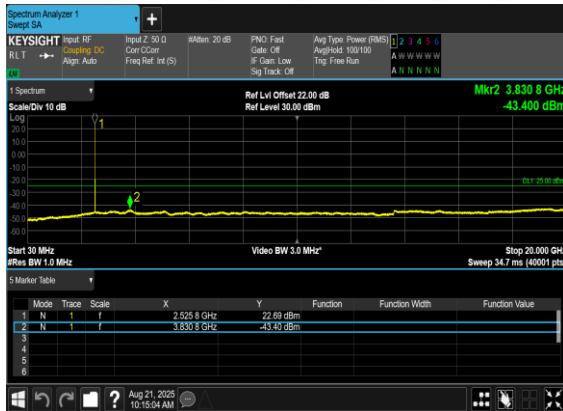
B2_N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



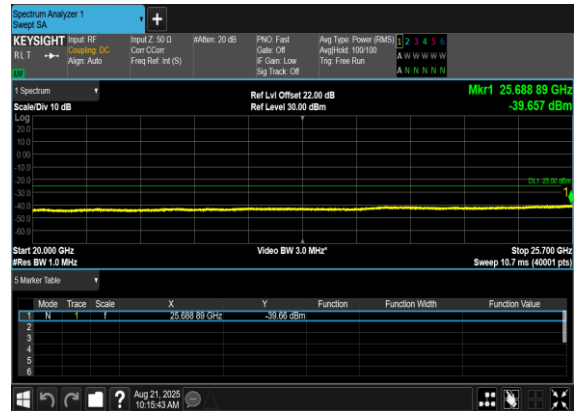
B2_N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



B2_N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

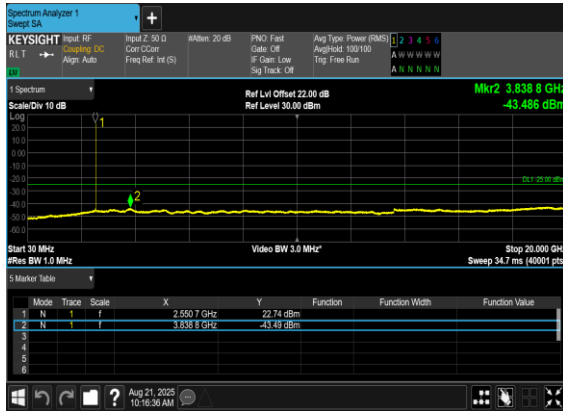


B2_N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

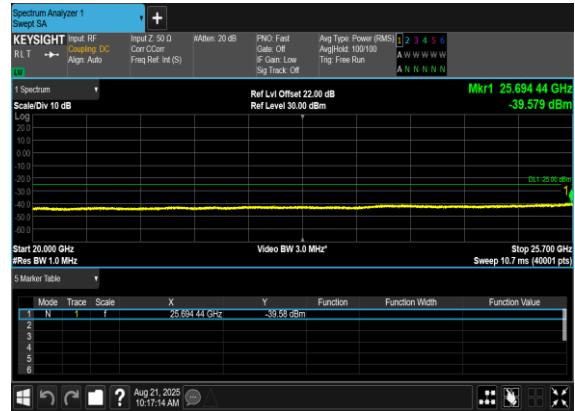




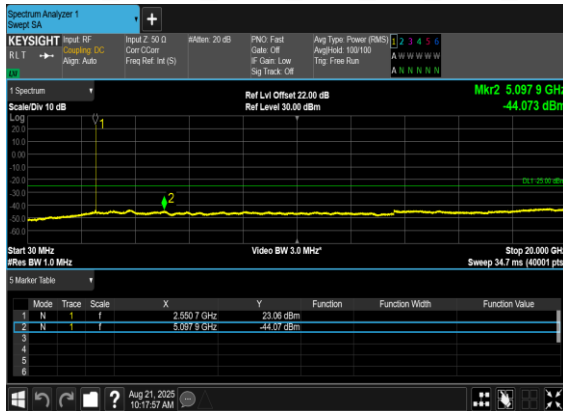
B2_N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



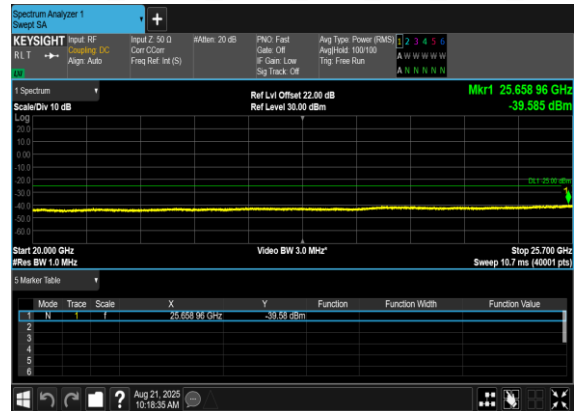
B2_N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



B2_N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

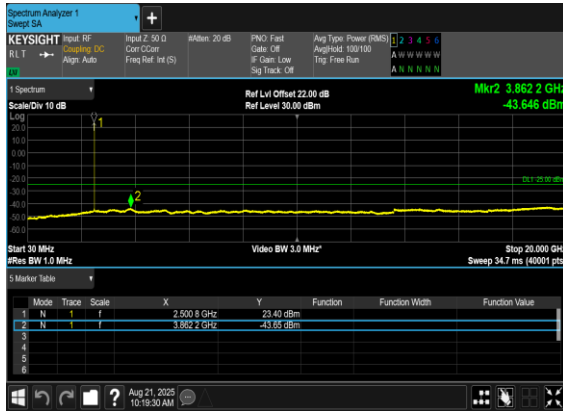


B2_N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

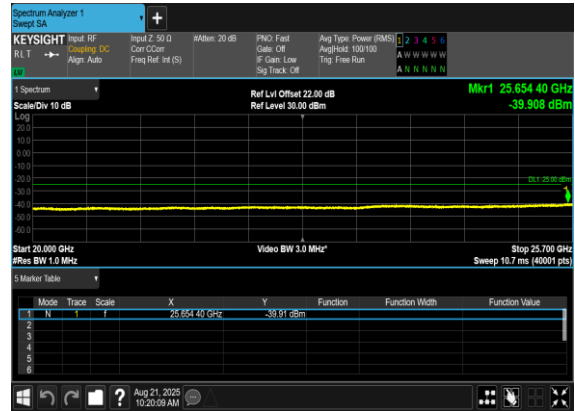




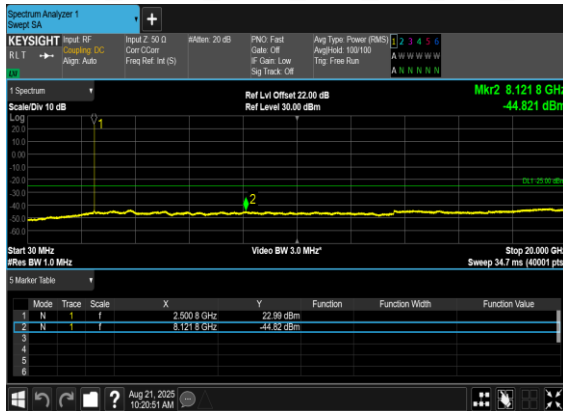
B2_N7(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



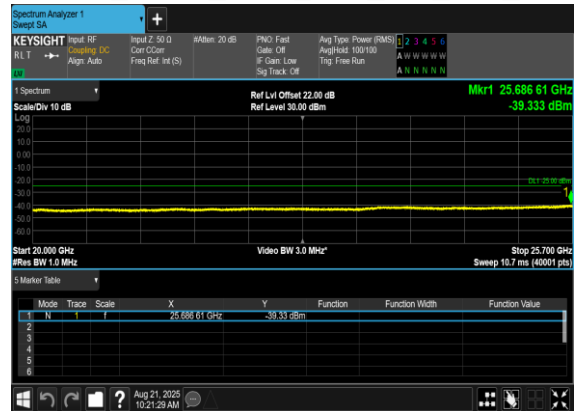
B2_N7(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N7(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

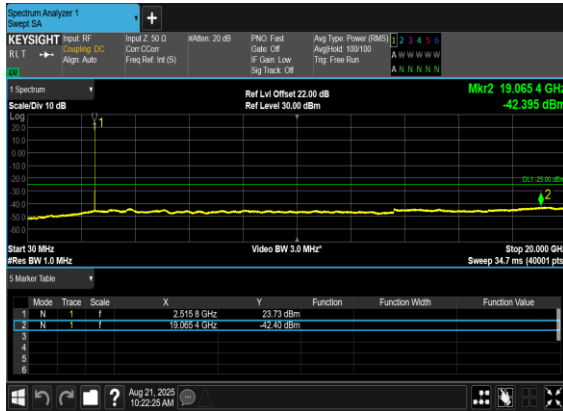


B2_N7(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

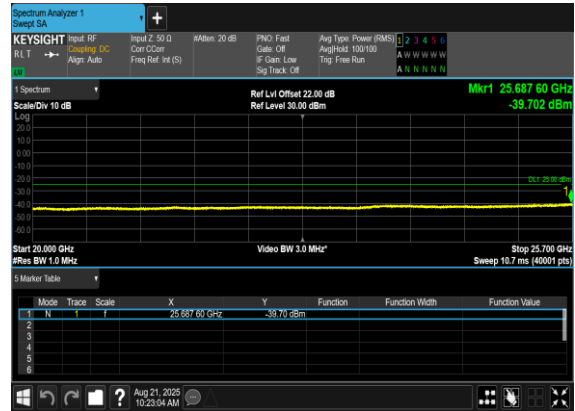




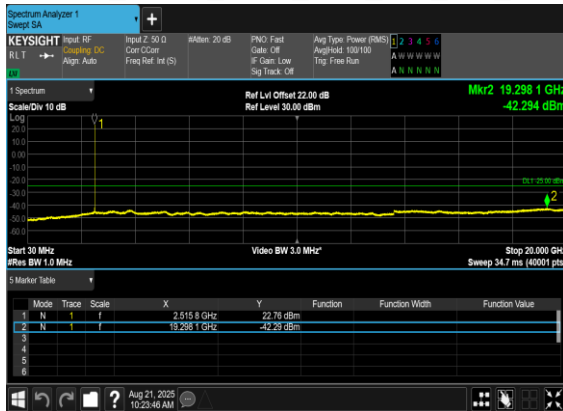
B2_N7(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



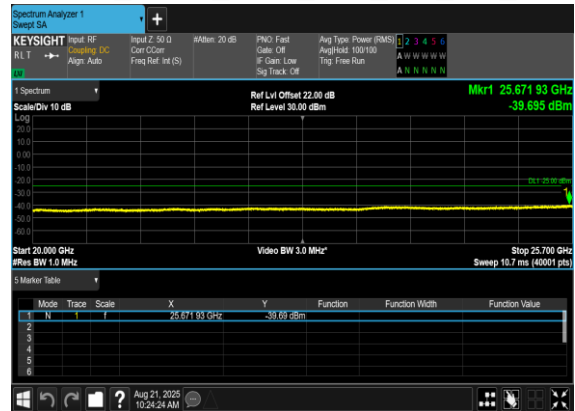
B2_N7(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



B2_N7(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

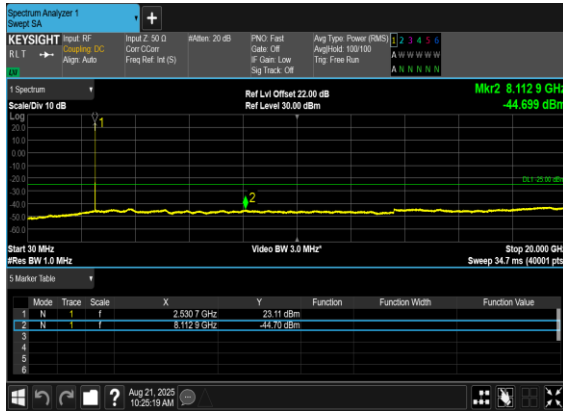


B2_N7(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

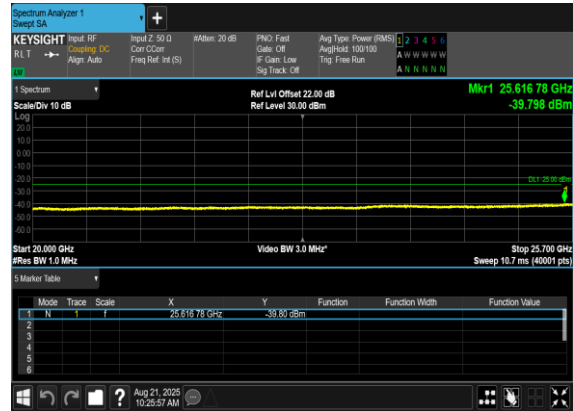




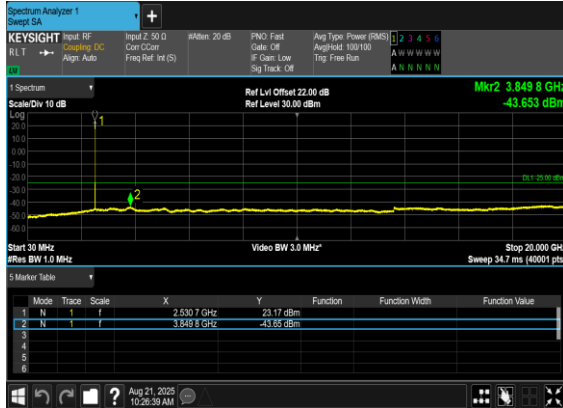
B2_N7(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



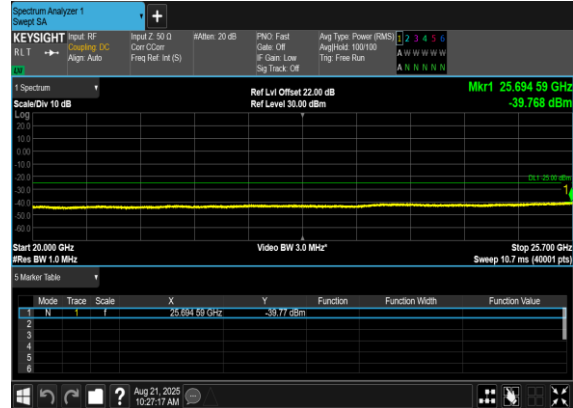
B2_N7(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



B2_N7(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



B2_N7(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

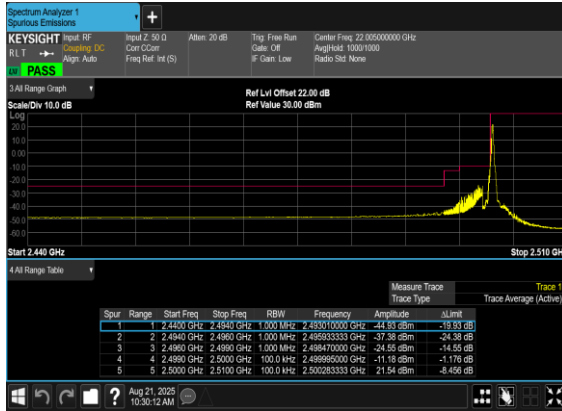


**Conducted Band Edge**

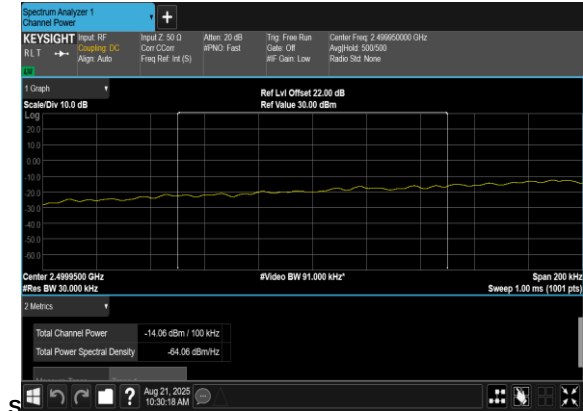
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
7	15	5	500500	2502.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
7	15	5	513500	2567.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
7	15	20	502000	2510.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
7	15	20	512000	2560.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
7	15	40	504000	2520.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
7	15	40	504000	2520.0	DFT-s-OFDM QPSK	216@0	see graph	PASS
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	1@215	see graph	PASS
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	1@215	see graph	PASS
7	15	40	510000	2550.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
7	15	40	510000	2550.0	DFT-s-OFDM QPSK	216@0	see graph	PASS



B2_N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



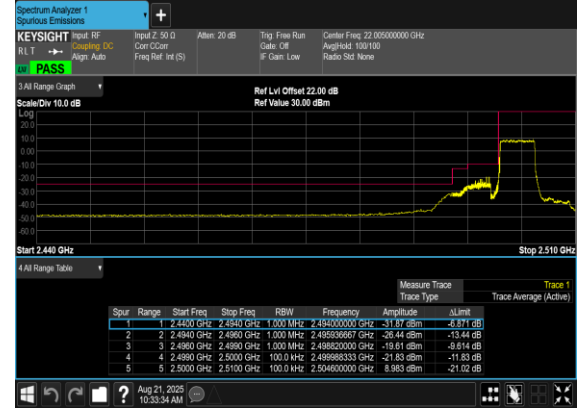
B2_N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PAS



B2_N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

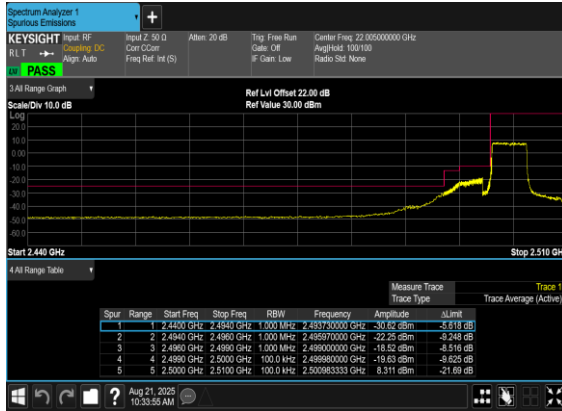


B2_N7(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

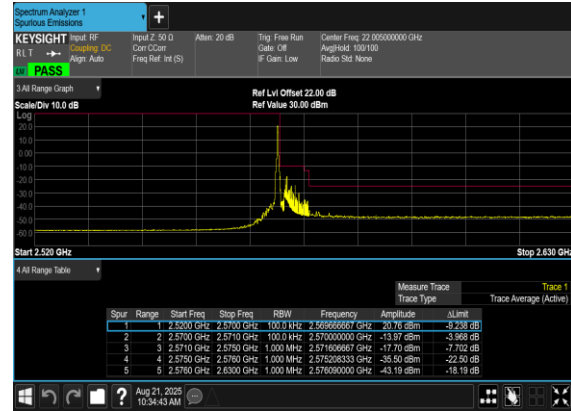




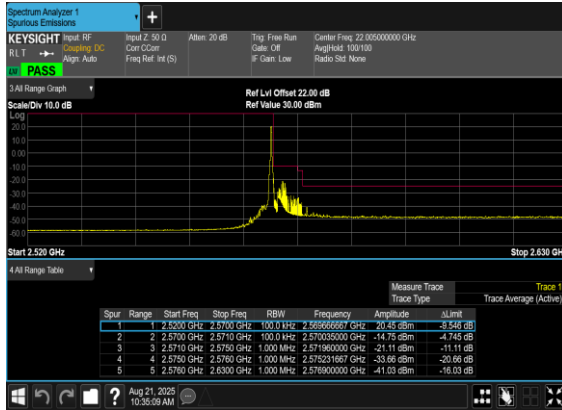
B2_N7(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



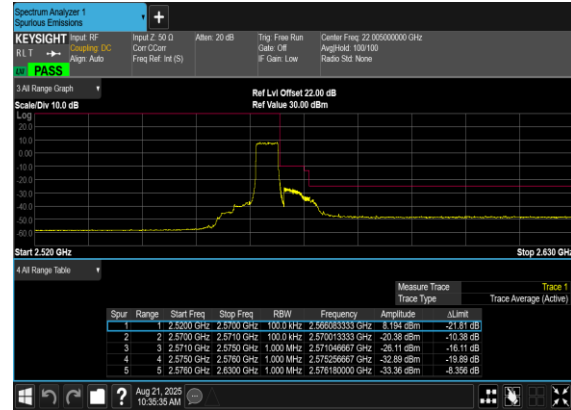
B2_N7(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



B2_N7(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH

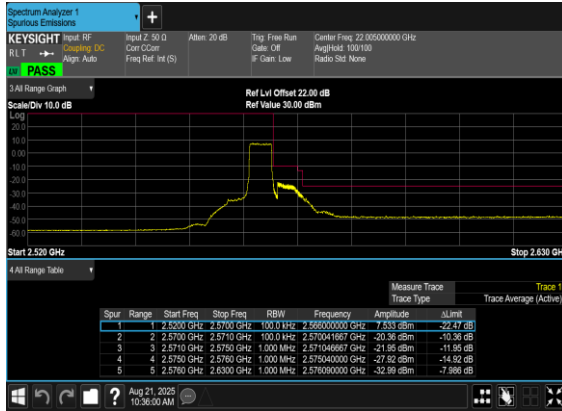


B2_N7(5M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

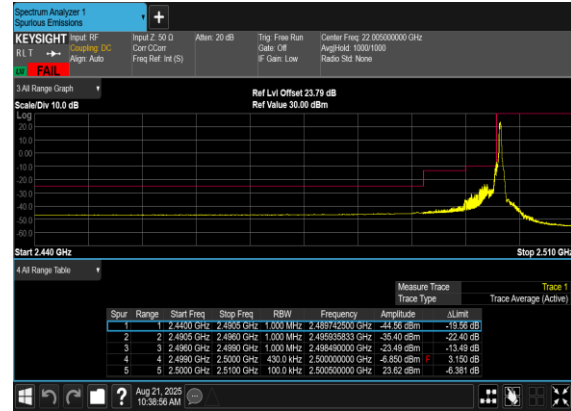




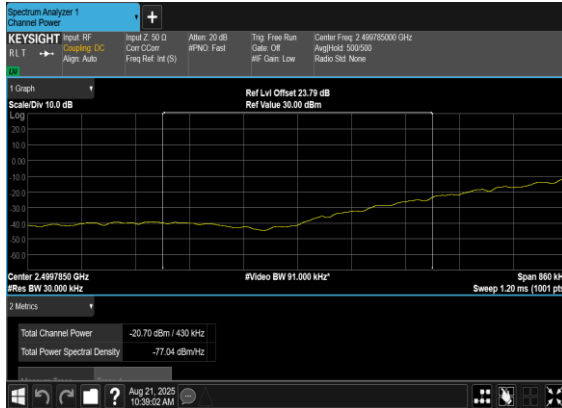
B2_N7(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



B2_N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



B2_N7(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PASS



B2_N7(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

