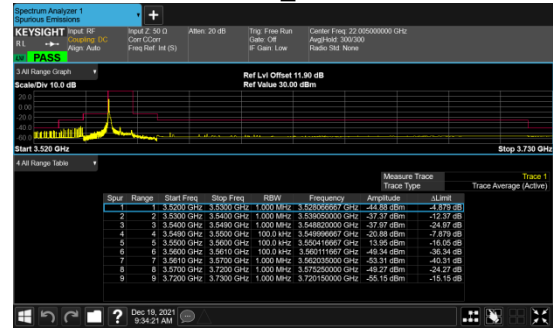




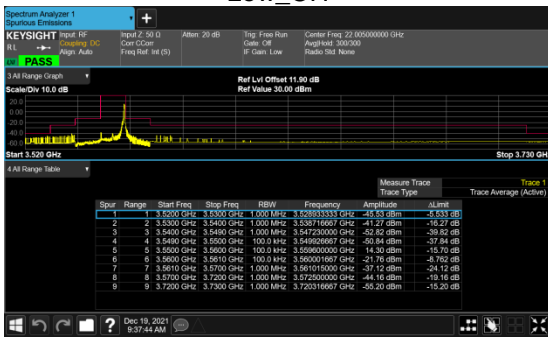
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



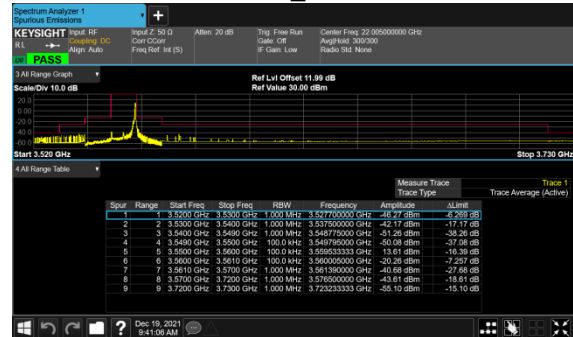
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



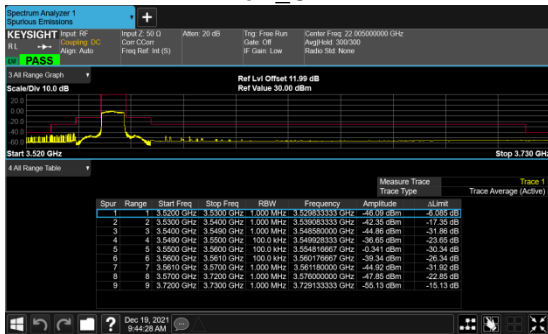
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



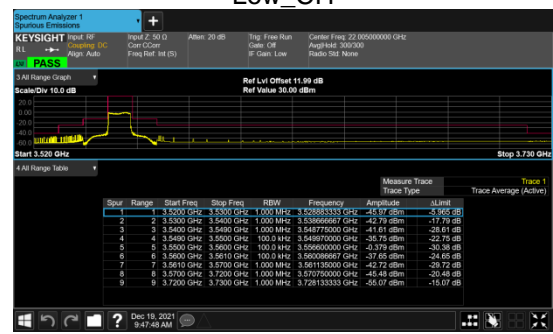
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

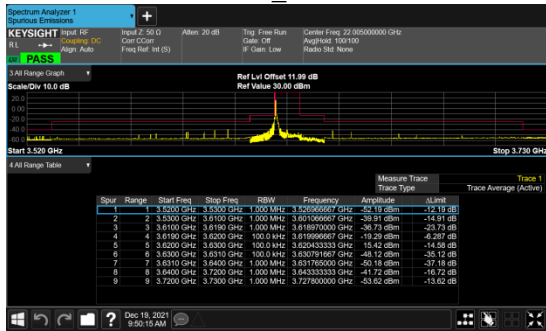


N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

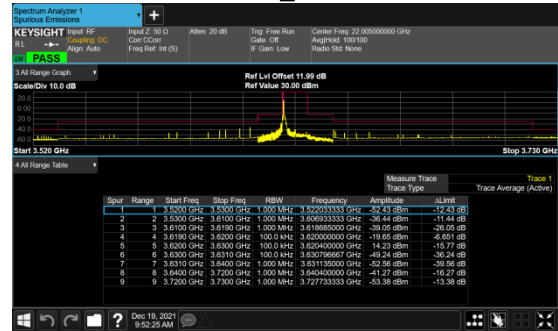




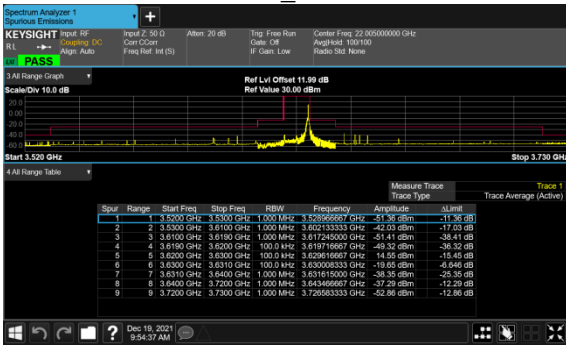
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



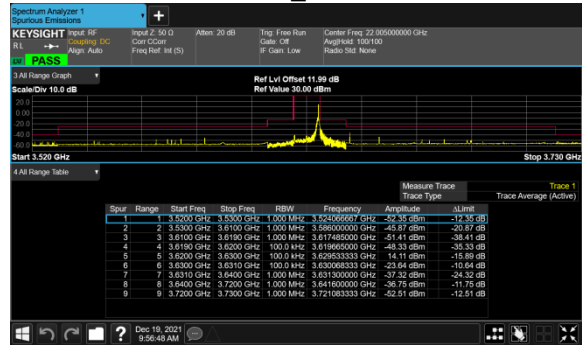
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



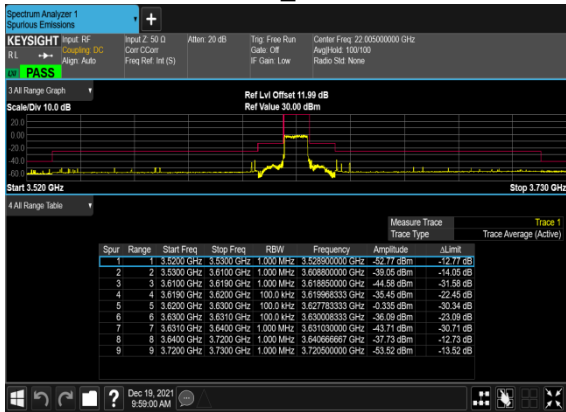
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



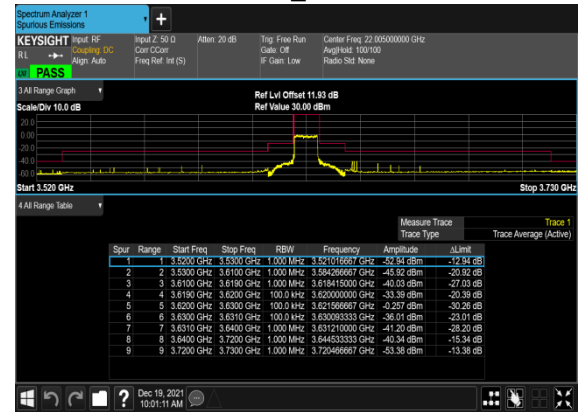
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH

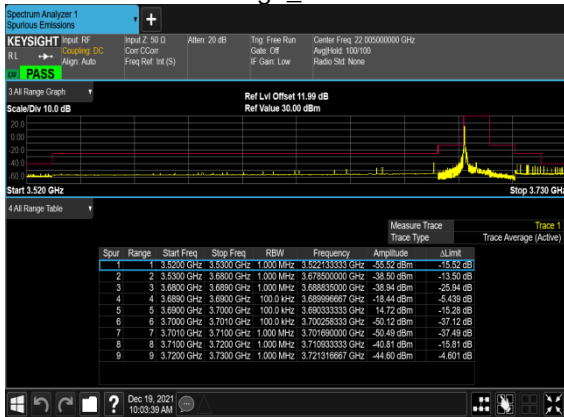


N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

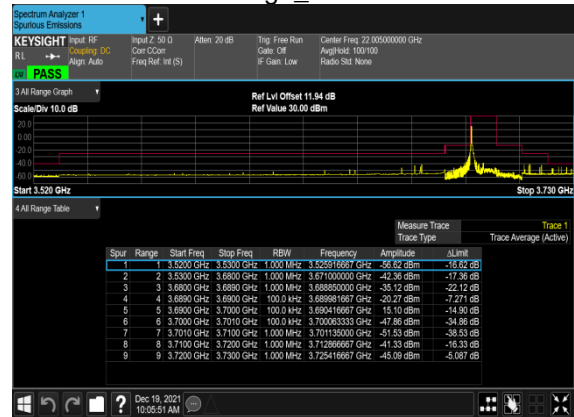




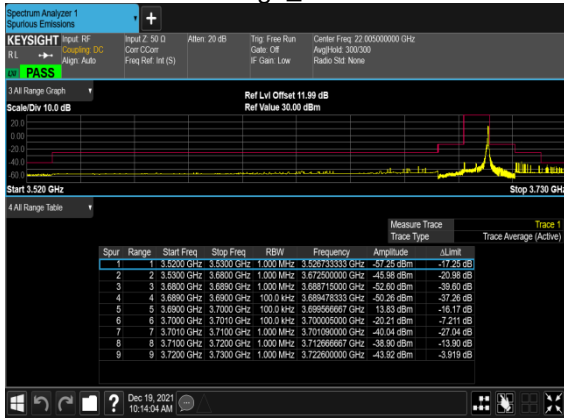
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



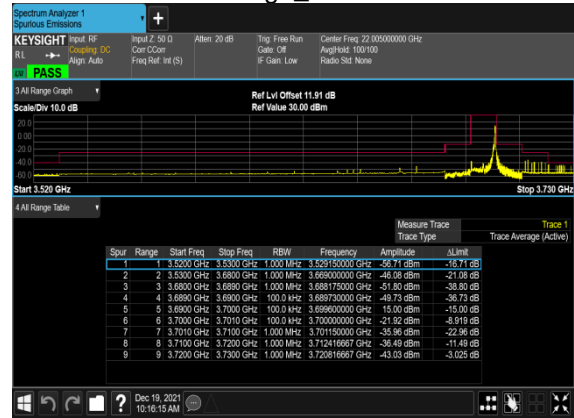
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



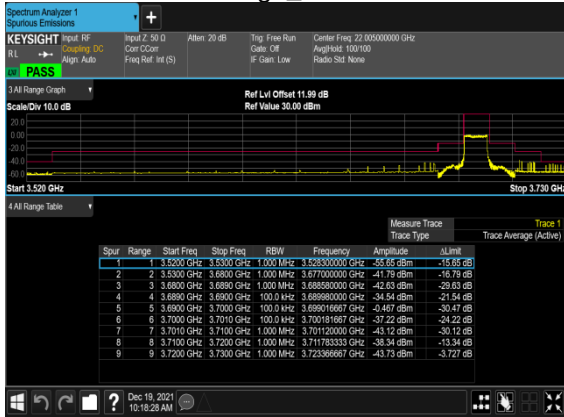
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



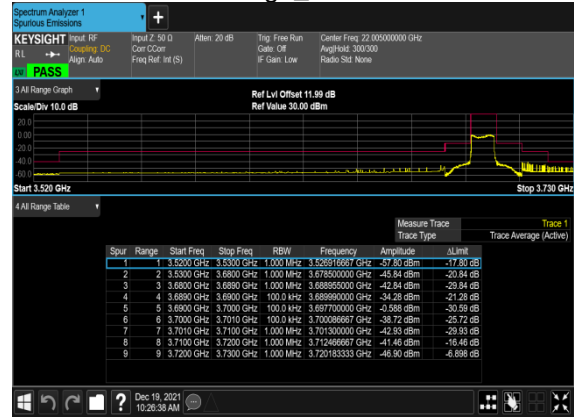
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



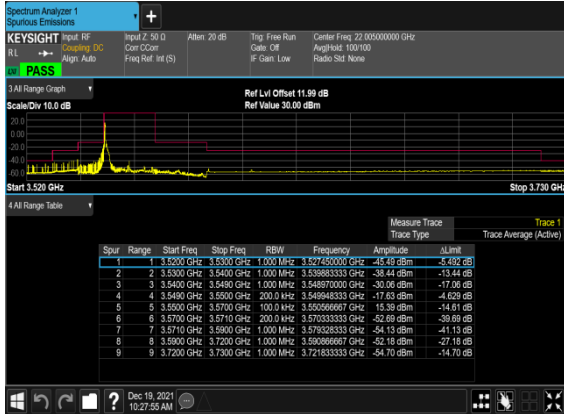
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH





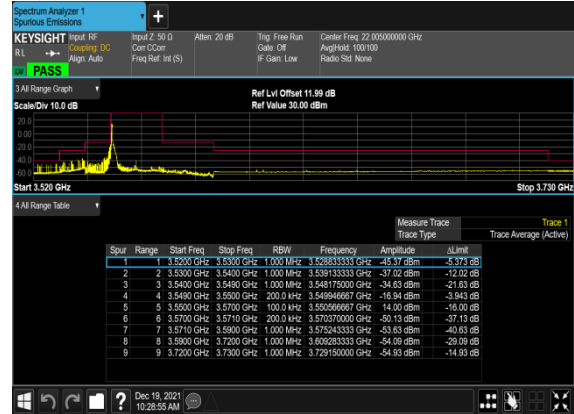
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_

Low_CH



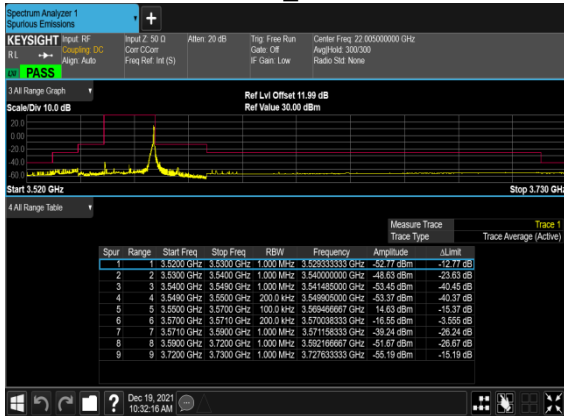
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_

Low_CH



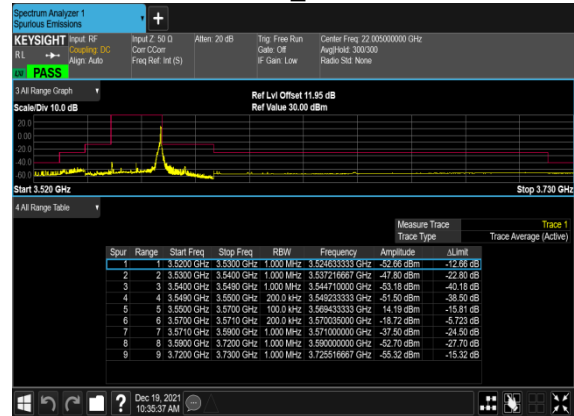
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_

Low_CH



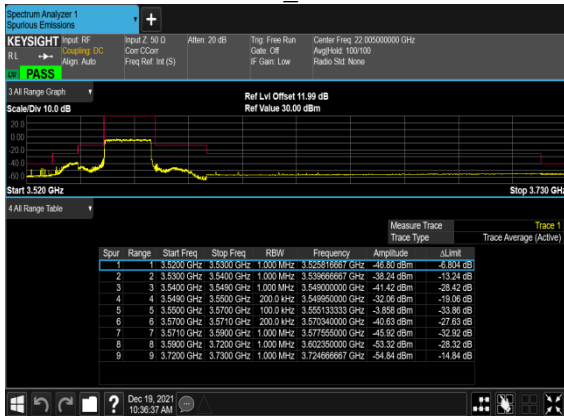
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_

Low_CH



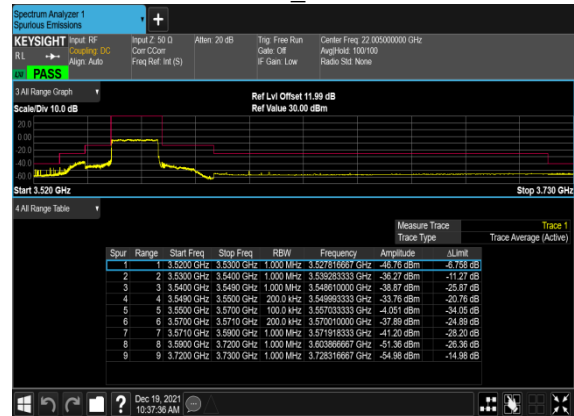
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_

Low_CH



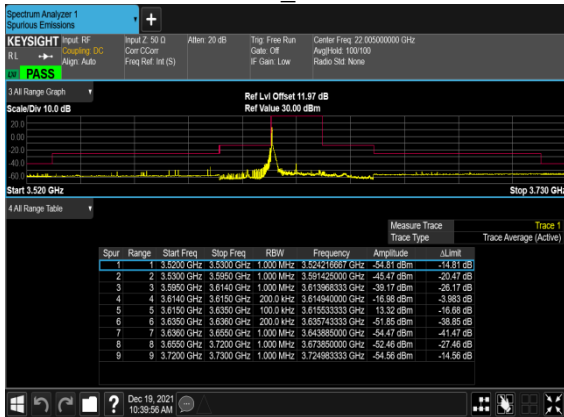
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_

Low_CH

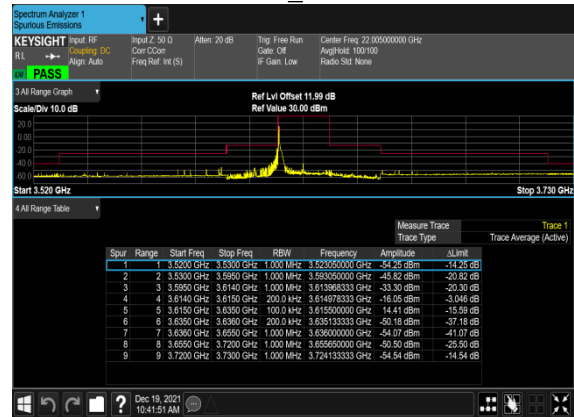




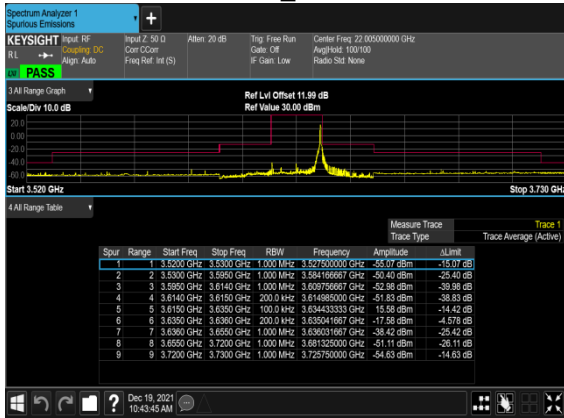
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



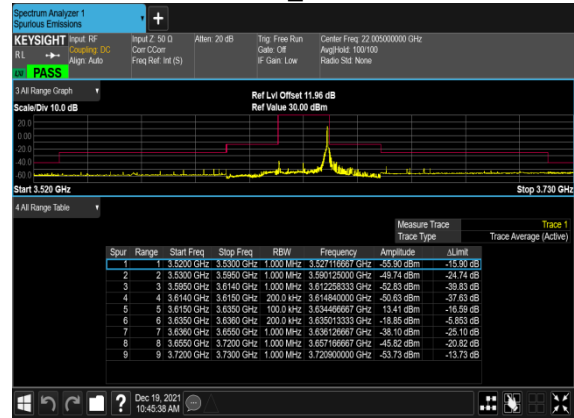
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



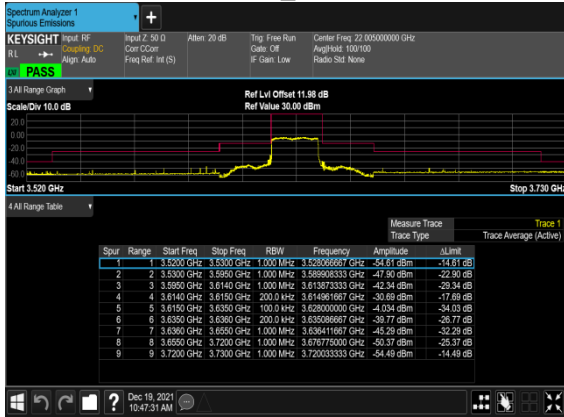
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



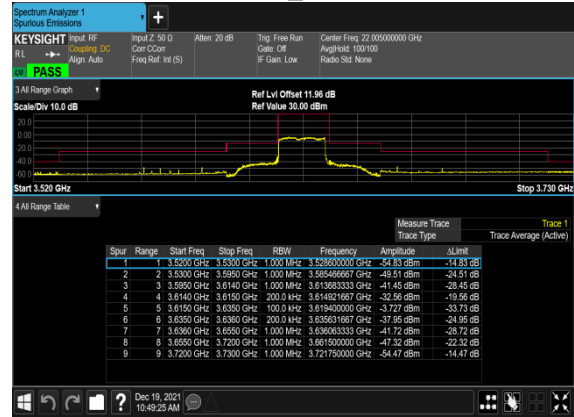
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH

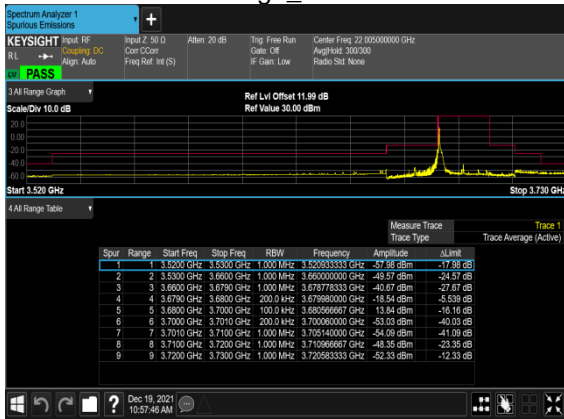


N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

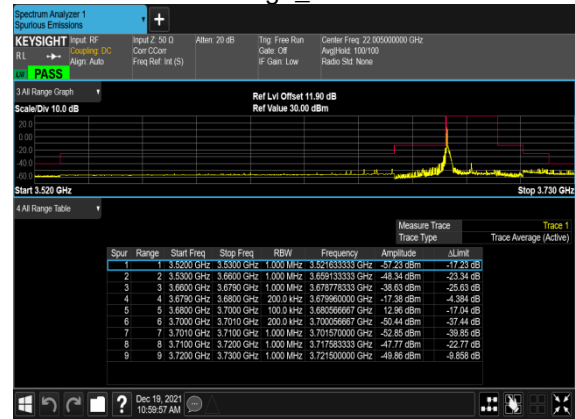




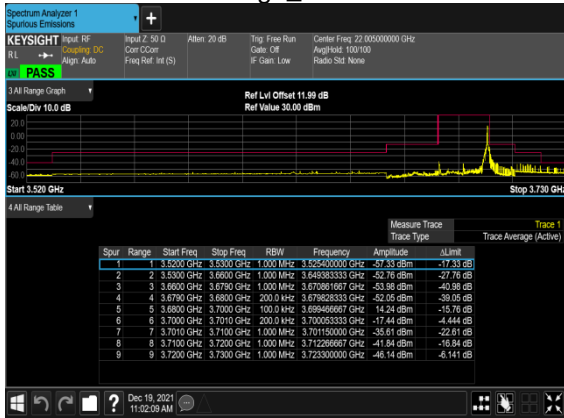
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



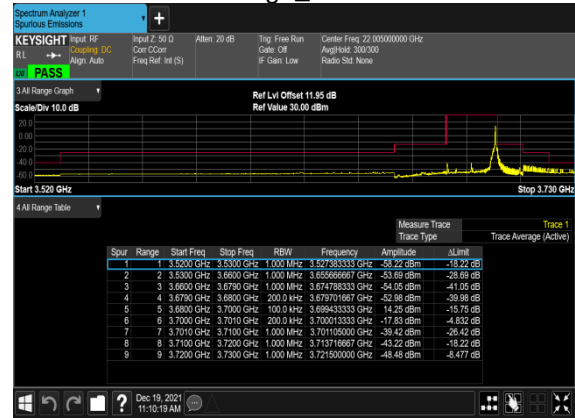
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



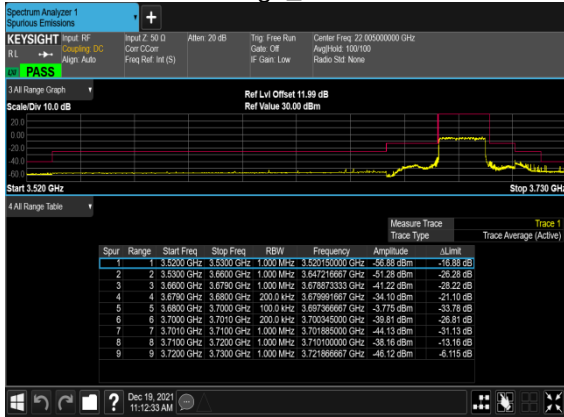
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



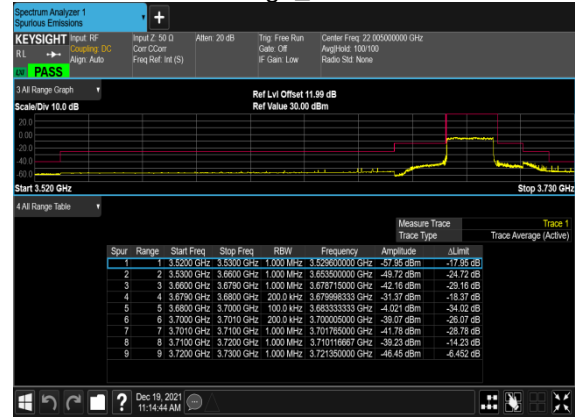
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



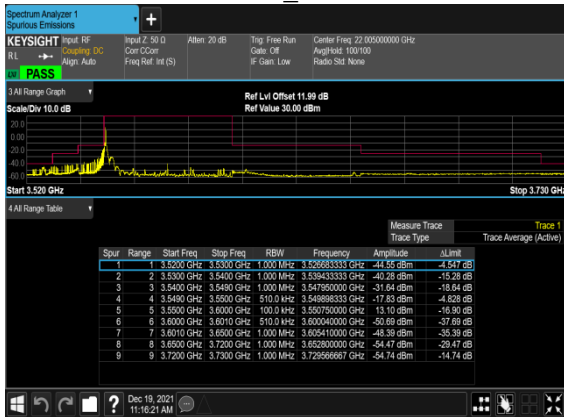
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH





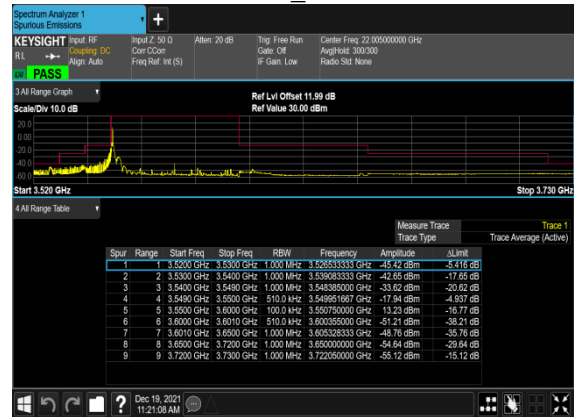
N48(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_

Low_CH



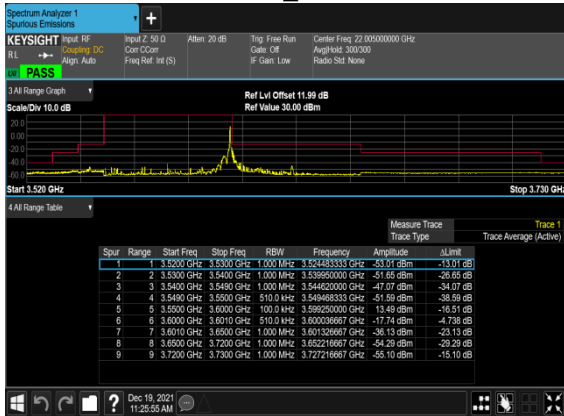
N48(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_

Low_CH



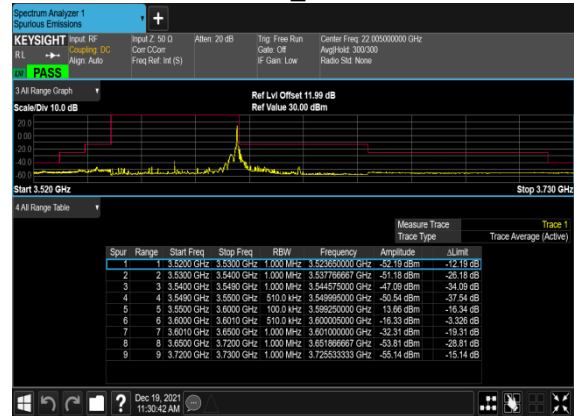
N48(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_

Low_CH



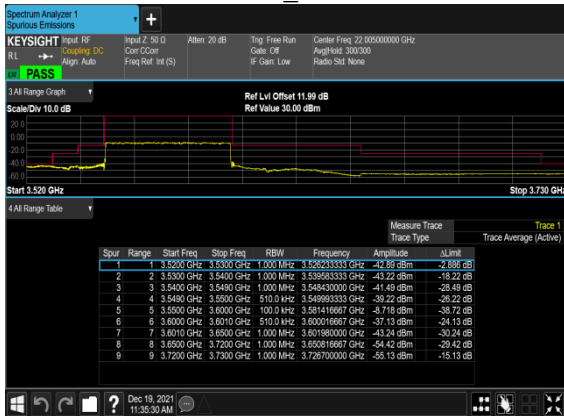
N48(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_

Low_CH



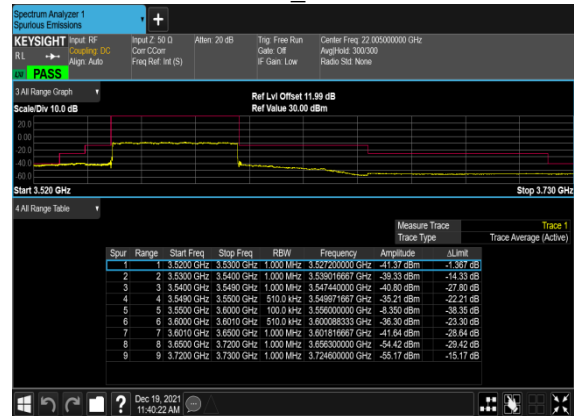
N48(50M)_DFT-s-OFDM_BPSK_Outer_Full_

Low_CH



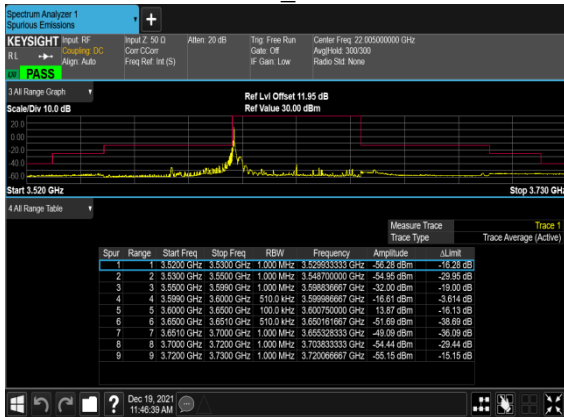
N48(50M)_DFT-s-OFDM_QPSK_Outer_Full_

Low_CH

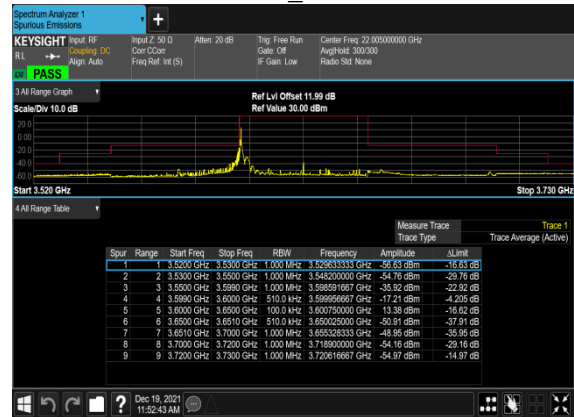




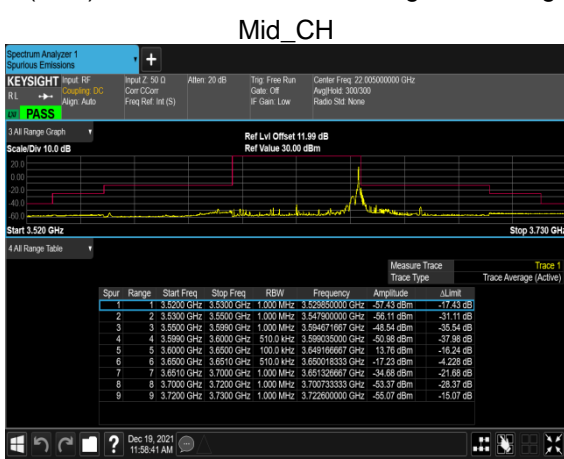
N48(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



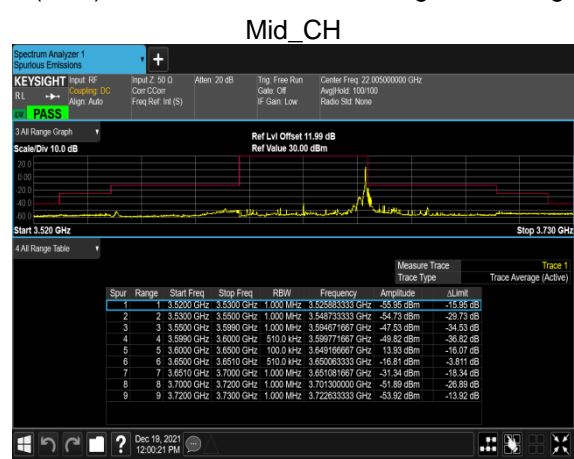
N48(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



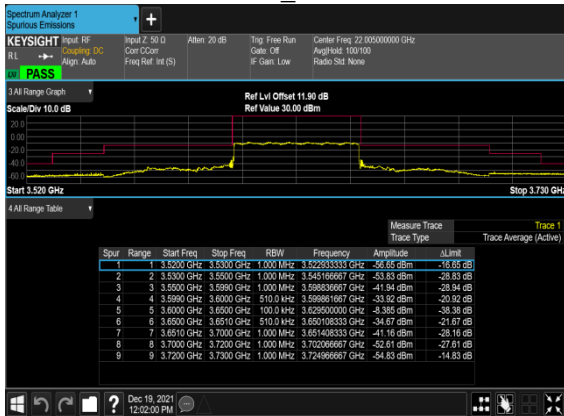
N48(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



N48(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(50M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH

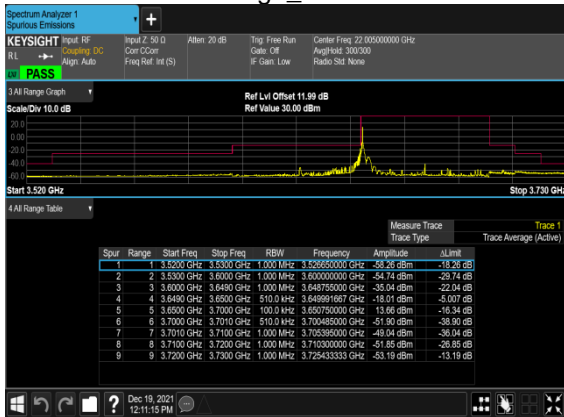


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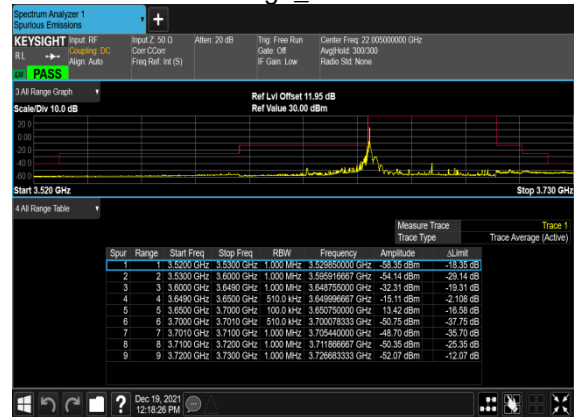




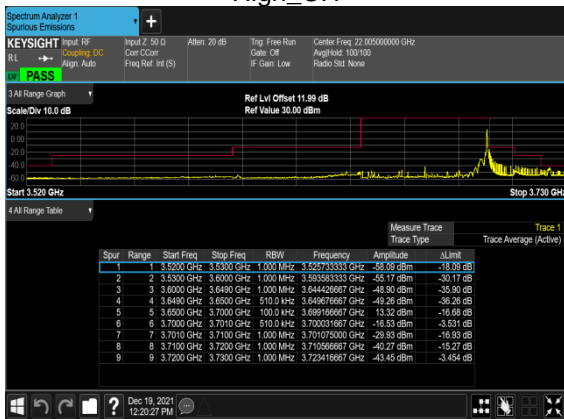
N48(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



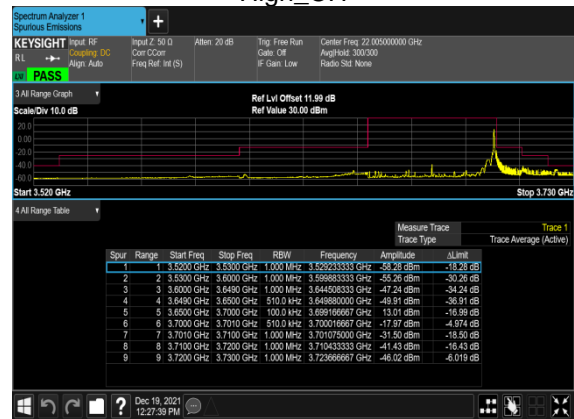
N48(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



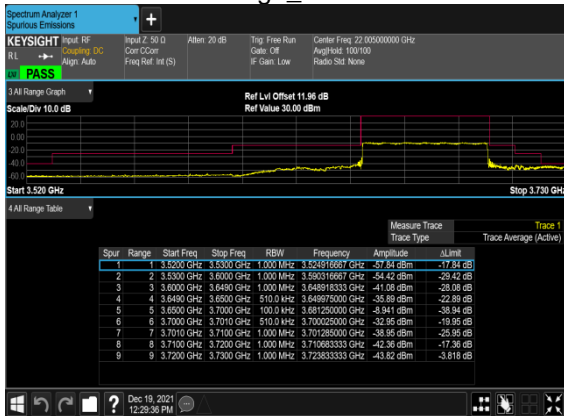
N48(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



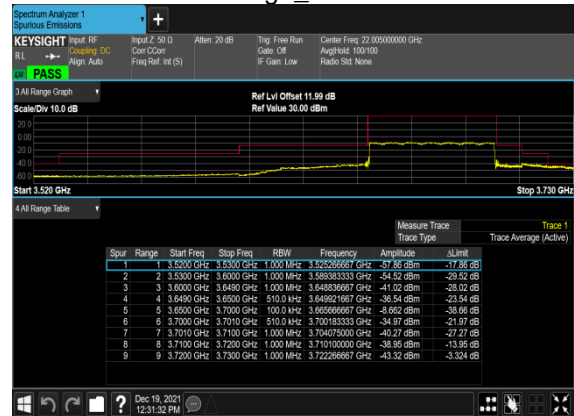
N48(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N48(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH





A3. FR1 N48(ANT5) – SCS 30kHz

A3.1 Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0679	PASS	NV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0252	PASS	LV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0633	PASS	HV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0279	PASS	-30°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0359	PASS	-20°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0388	PASS	-10°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0696	PASS	0°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0377	PASS	10°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0391	PASS	20°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0583	PASS	30°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0688	PASS	40°C
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0332	PASS	50°C



A3.2 Occupied Bandwidth

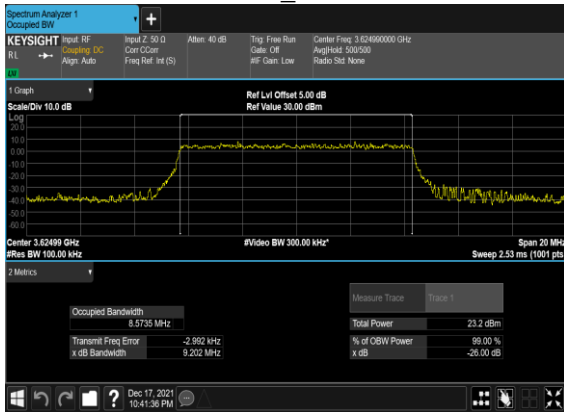
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	24@0	8.5735	9.202
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	8.5757	9.29
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	8.5583	9.412
48	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.5632	9.263
48	30	10	641666	3624.99	CP-OFDM 64 QAM	24@0	8.5622	9.361
48	30	10	641666	3624.99	CP-OFDM 256 QAM	24@0	8.5783	9.35
48	30	15	641666	3624.99	DFT-s-OFDM PI/2 BPSK	36@0	12.864	13.96
48	30	15	641666	3624.99	DFT-s-OFDM QPSK	36@0	12.859	13.83
48	30	15	641666	3624.99	CP-OFDM QPSK	38@0	13.548	14.44
48	30	15	641666	3624.99	CP-OFDM 16 QAM	38@0	13.561	14.53
48	30	15	641666	3624.99	CP-OFDM 64 QAM	38@0	13.571	14.67
48	30	15	641666	3624.99	CP-OFDM 256 QAM	38@0	13.582	14.35
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@0	17.786	18.83
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	17.776	18.84
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.193	19.14
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.164	19.29
48	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.173	19.36
48	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.171	19.38
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	35.704	37.51
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	35.737	37.5
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.737	39.55
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.802	39.42
48	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.779	39.47
48	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.748	39.31
48	30	50	641666	3624.99	DFT-s-OFDM PI/2 BPSK	128@0	45.697	47.81
48	30	50	641666	3624.99	DFT-s-OFDM QPSK	128@0	45.781	47.94
48	30	50	641666	3624.99	CP-OFDM QPSK	133@0	47.553	49.67
48	30	50	641666	3624.99	CP-OFDM 16 QAM	133@0	47.361	49.28
48	30	50	641666	3624.99	CP-OFDM 64 QAM	133@0	47.4	49.35
48	30	50	641666	3624.99	CP-OFDM 256 QAM	133@0	47.523	49.46
48	30	60	641666	3624.99	DFT-s-OFDM PI/2 BPSK	162@0	57.883	59.84
48	30	60	641666	3624.99	DFT-s-OFDM QPSK	162@0	57.811	59.82
48	30	60	641666	3624.99	CP-OFDM QPSK	162@0	57.772	59.87



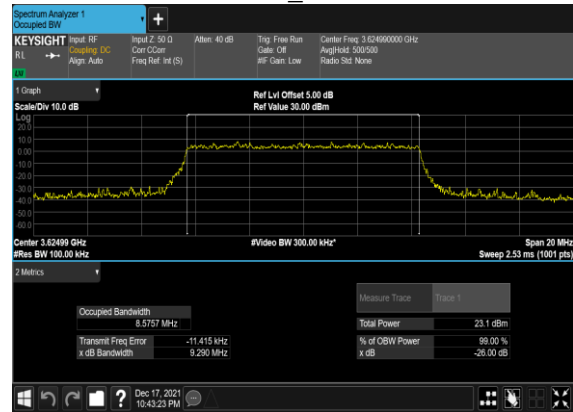
48	30	60	641666	3624.99	CP-OFDM 16 QAM	162@0	57.77	59.78
48	30	60	641666	3624.99	CP-OFDM 64 QAM	162@0	57.691	59.97
48	30	60	641666	3624.99	CP-OFDM 256 QAM	162@0	57.877	59.79
48	30	80	641666	3624.99	DFT-s-OFDM PI/2 BPSK	216@0	77.195	79.57
48	30	80	641666	3624.99	DFT-s-OFDM QPSK	216@0	77.098	79.69
48	30	80	641666	3624.99	CP-OFDM QPSK	217@0	77.296	81.15
48	30	80	641666	3624.99	CP-OFDM 16 QAM	217@0	77.4	80.14
48	30	80	641666	3624.99	CP-OFDM 64 QAM	217@0	77.442	80.17
48	30	80	641666	3624.99	CP-OFDM 256 QAM	217@0	77.423	80.1
48	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	270@0	96.122	99.51
48	30	100	641666	3624.99	DFT-s-OFDM QPSK	270@0	96.354	99.52
48	30	100	641666	3624.99	CP-OFDM QPSK	273@0	97.139	100.7
48	30	100	641666	3624.99	CP-OFDM 16 QAM	273@0	97.253	100.6
48	30	100	641666	3624.99	CP-OFDM 64 QAM	273@0	97.209	100.4
48	30	100	641666	3624.99	CP-OFDM 256 QAM	273@0	97.281	100.6



N48(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



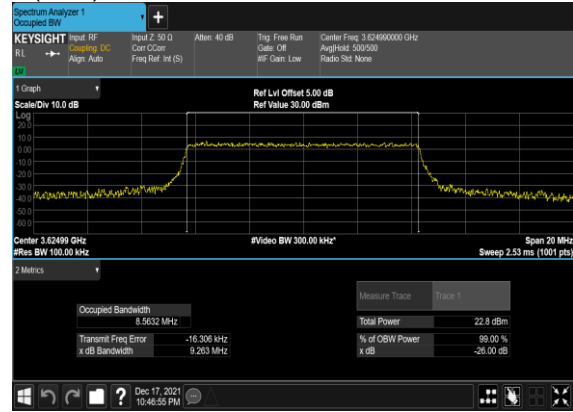
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



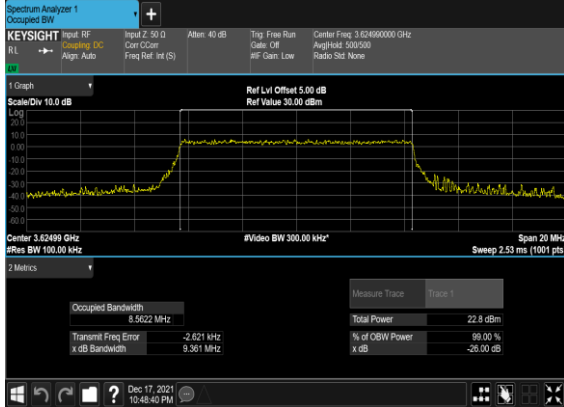
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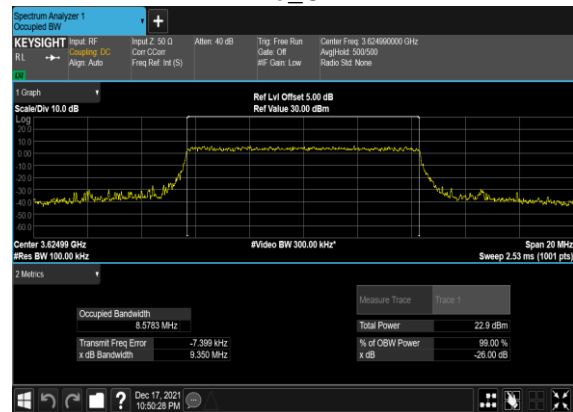
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N48(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

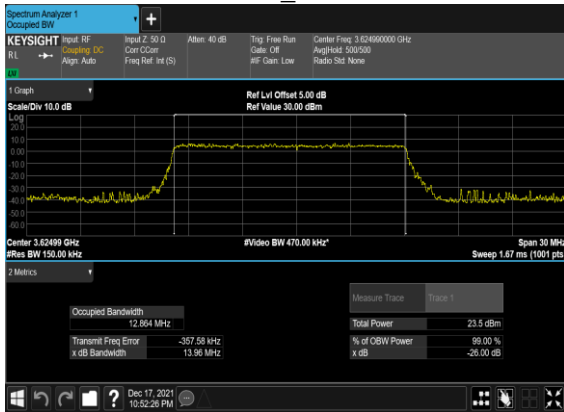


N48(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

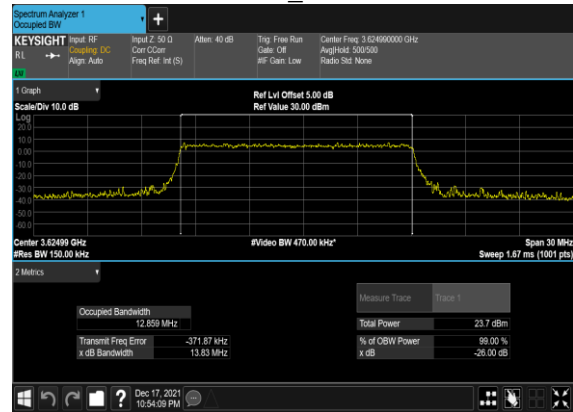




N48(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



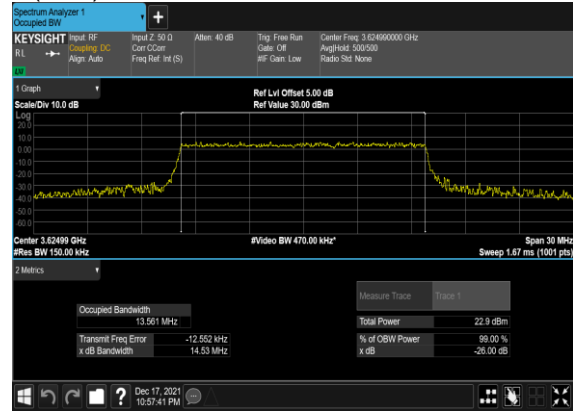
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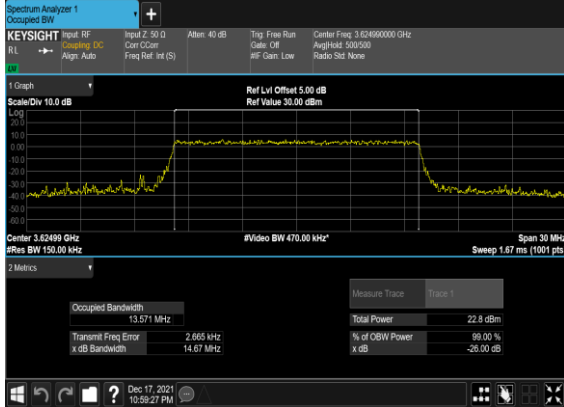
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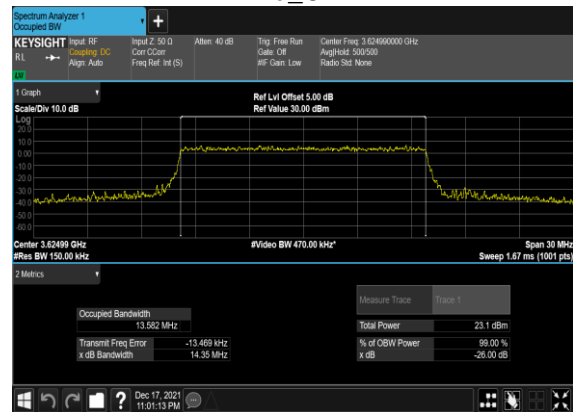
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N48(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

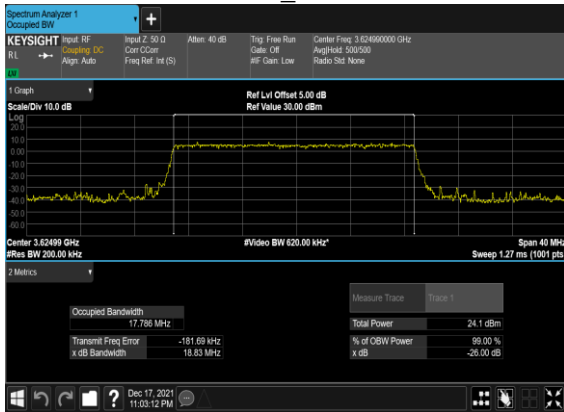


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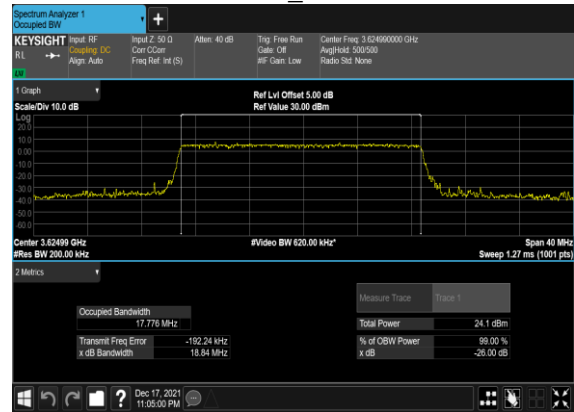




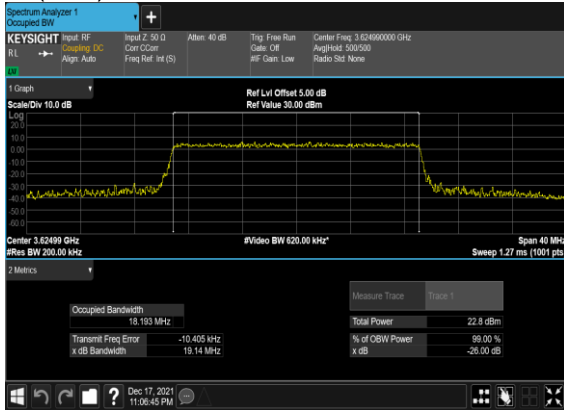
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



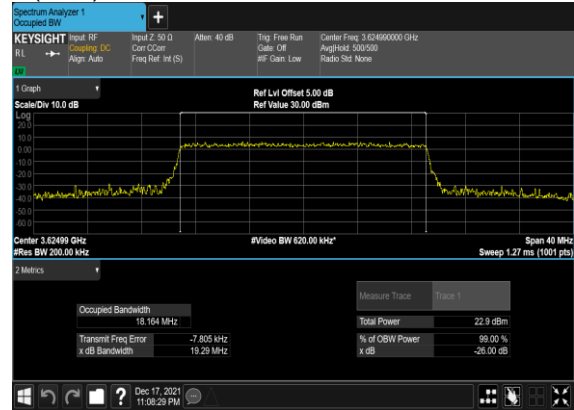
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



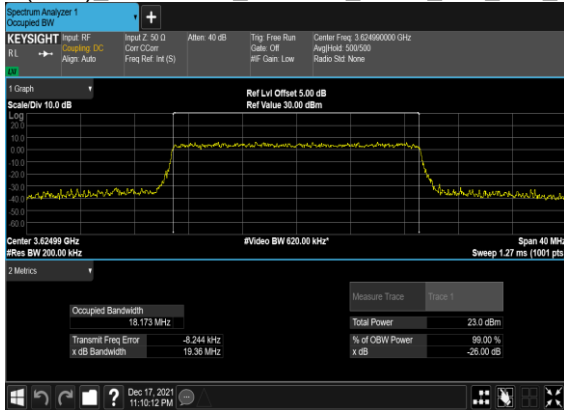
N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N48(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N48(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N48(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

