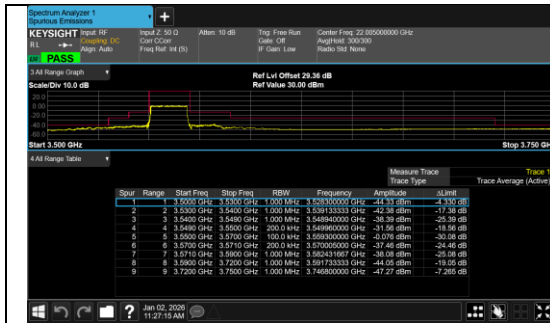
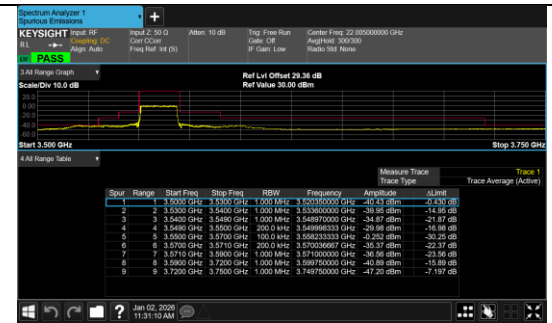
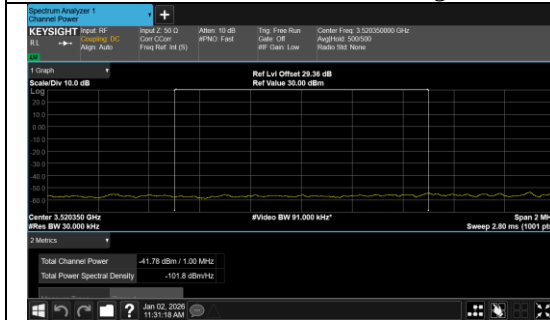




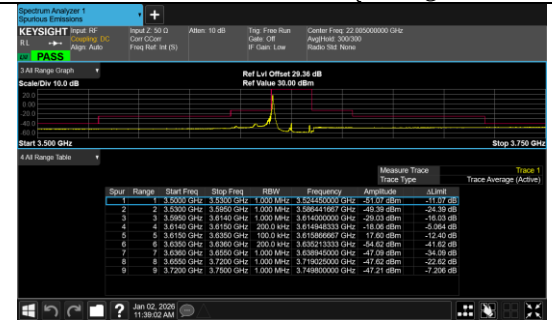
Conducted Band Edge
Band 48 20MHz/3560.01/Low BPSK 50@0



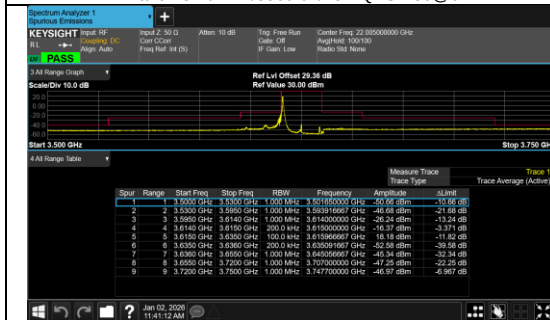
Conducted Band Edge
Band 48 20MHz/3560.01/Low QPSK 50@0



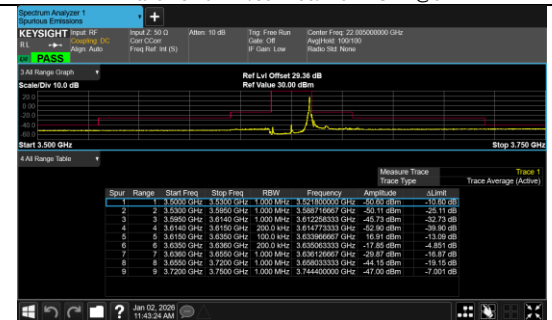
Conducted Band Edge
Band 48 20MHz/3560.01/Low QPSK 50@0



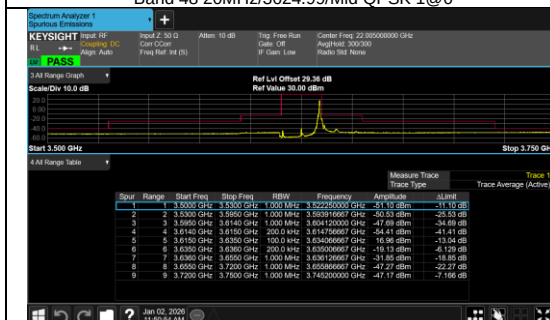
Conducted Band Edge
Band 48 20MHz/3624.99/Mid BPSK 1@0



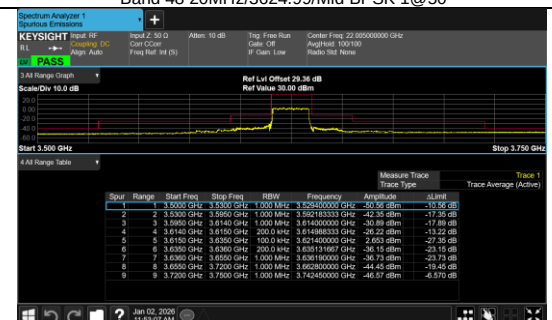
Conducted Band Edge
Band 48 20MHz/3624.99/Mid QPSK 1@0



Conducted Band Edge
Band 48 20MHz/3624.99/Mid BPSK 1@50



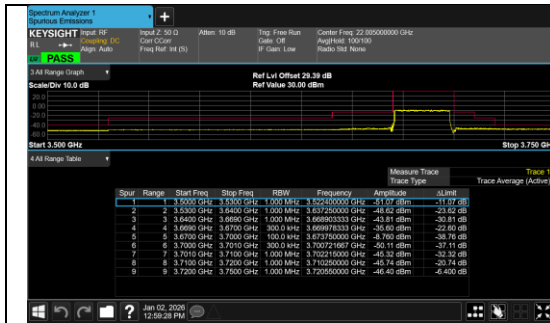
Conducted Band Edge
Band 48 20MHz/3624.99/Mid QPSK 1@50



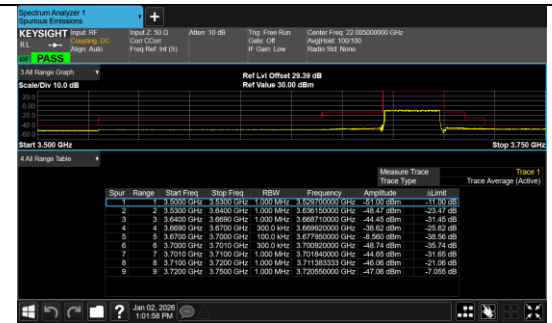
Conducted Band Edge
Band 48 20MHz/3624.99/Mid BPSK 50@0



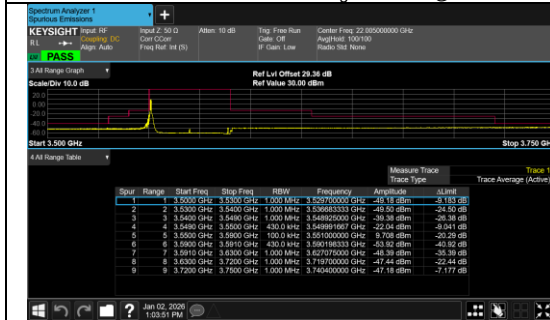




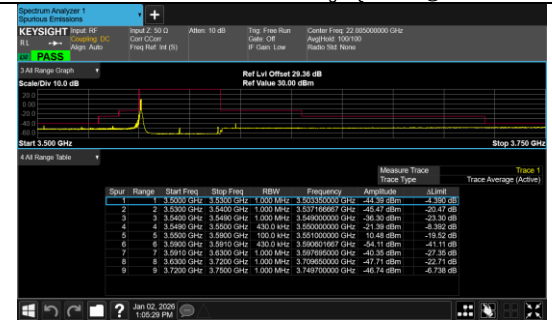
Conducted Band Edge
Band 48 30MHz/3684.99/High BPSK 75@0



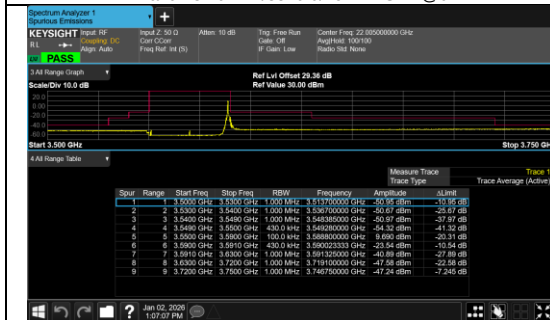
Conducted Band Edge
Band 48 30MHz/3684.99/High QPSK 75@0



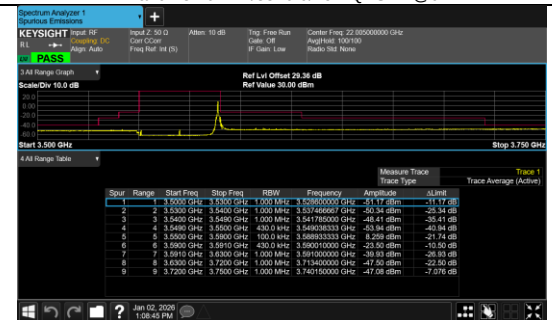
Conducted Band Edge
Band 48 40MHz/3570.0/Low BPSK 1@0



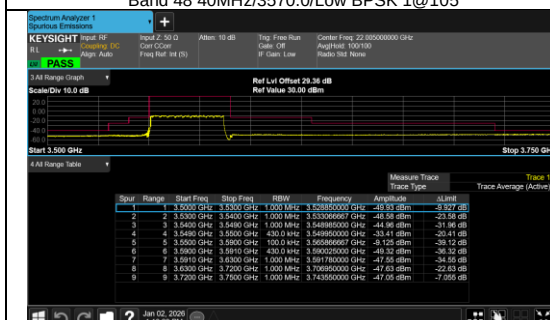
Conducted Band Edge
Band 48 40MHz/3570.0/Low QPSK 1@0



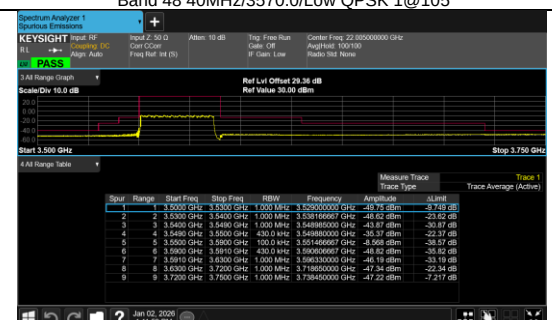
Conducted Band Edge
Band 48 40MHz/3570.0/Low BPSK 1@105



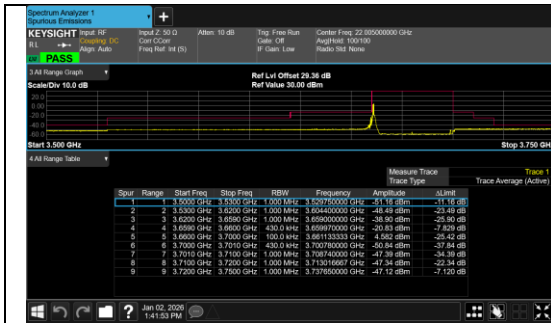
Conducted Band Edge
Band 48 40MHz/3570.0/Low QPSK 1@105



Conducted Band Edge
Band 48 40MHz/3570.0/Low BPSK 100@0



Conducted Band Edge
Band 48 40MHz/3570.0/Low QPSK 100@0



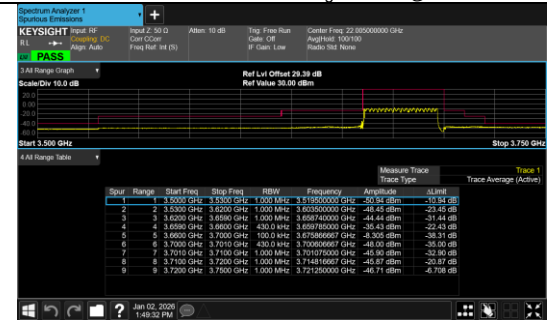
Conducted Band Edge
Band 48 40MHz/3679.98/High QPSK 1@0



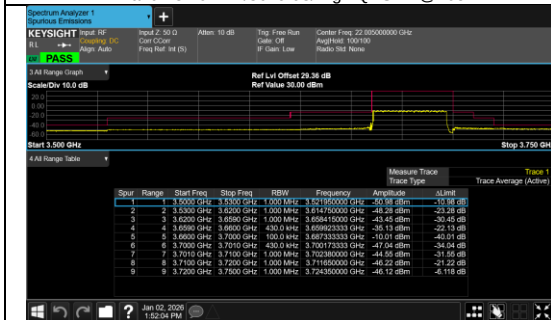
Conducted Band Edge
Band 48 40MHz/3679.98/High BPSK 1@105



Conducted Band Edge
Band 48 40MHz/3679.98/High QPSK 1@105



Conducted Band Edge
Band 48 40MHz/3679.98/High BPSK 100@0



Conducted Band Edge
Band 48 40MHz/3679.98/High QPSK 100@0



Software Version: 23.06.1602

FR1 N48_ ANT8

Frequency Stability

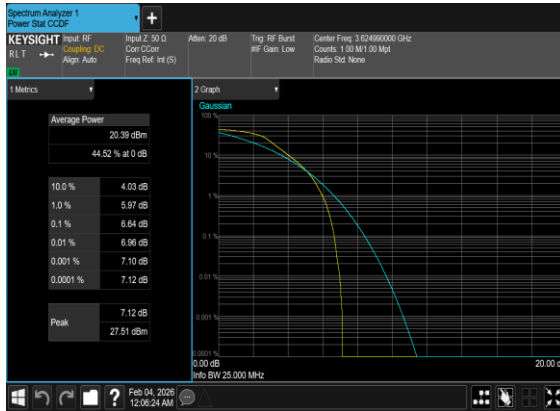
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0075	PASS	NV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0007	PASS	LV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0047	PASS	HV
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0000	PASS	-30℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0002	PASS	-20℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0038	PASS	-10℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0022	PASS	0℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0007	PASS	10℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0059	PASS	20℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0005	PASS	30℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0066	PASS	40℃
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	0.0047	PASS	50℃

**Peak to Average Ratio**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@0	6.64	13	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	3.98	13	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	4.36	13	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	4.43	13	PASS



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



N48(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CH



N48(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



N48(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

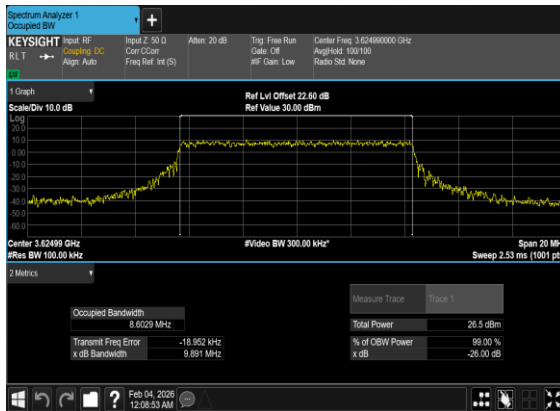


**Occupied Bandwidth**

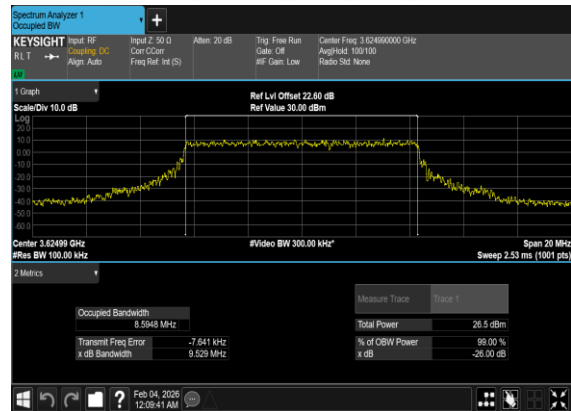
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
48	30	10	641666	3624.99	CP-OFDM QPSK	24@0	8.6029	9.891
48	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.5948	9.529
48	30	15	641666	3624.99	CP-OFDM QPSK	38@0	13.534	14.8
48	30	15	641666	3624.99	CP-OFDM 16 QAM	38@0	13.636	14.85
48	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.183	19.54
48	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.217	19.19
48	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.839	29.14
48	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.835	29.08
48	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.883	39.57
48	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.812	39.41



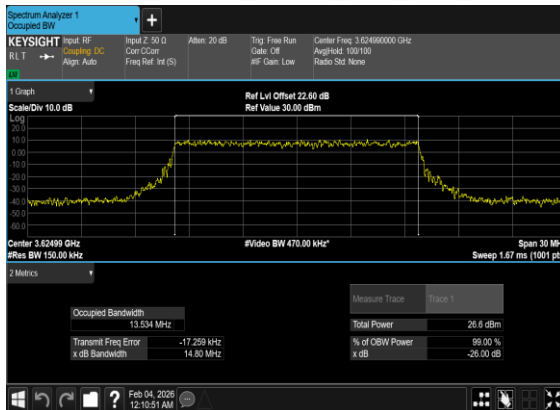
N48(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



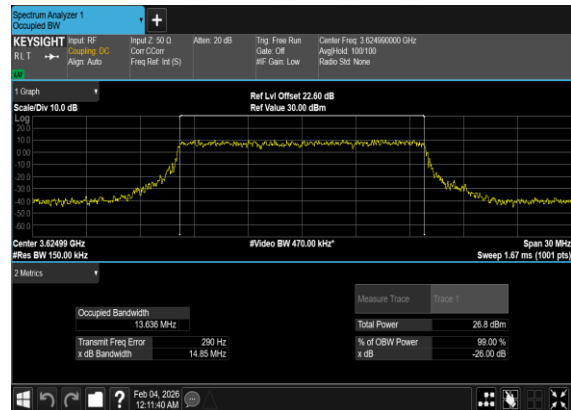
N48(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N48(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH

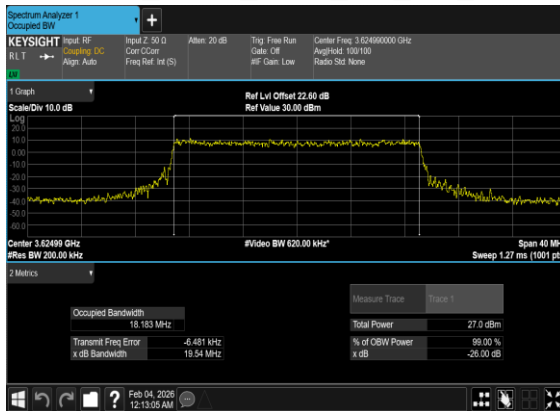


N48(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH

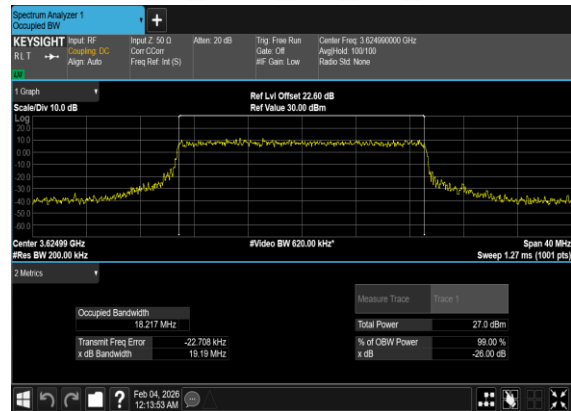




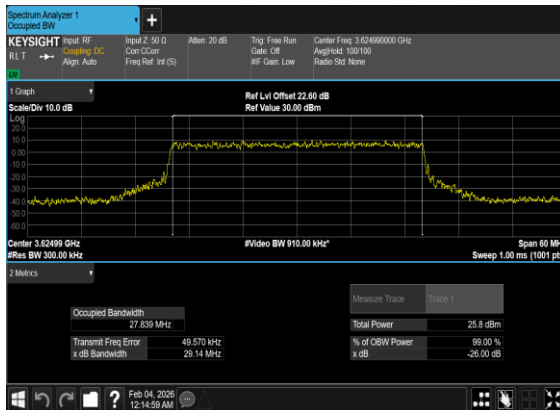
N48(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



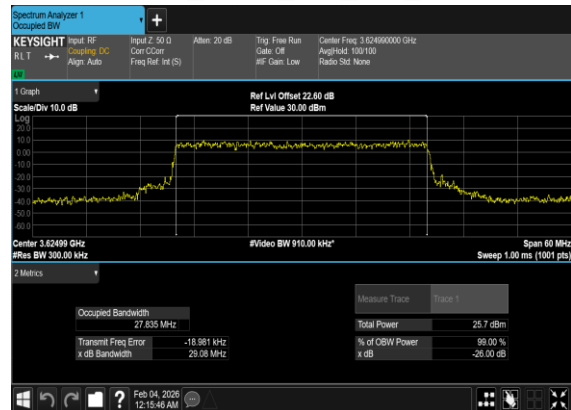
N48(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N48(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH

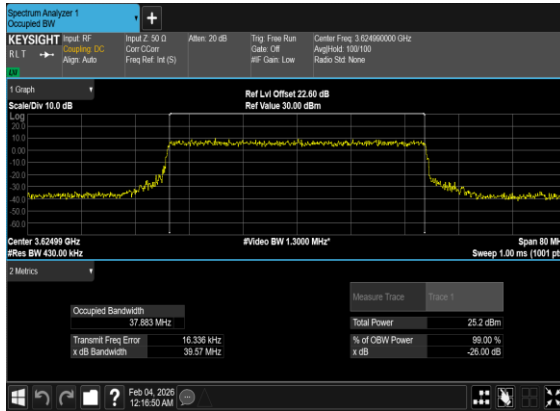


N48(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH

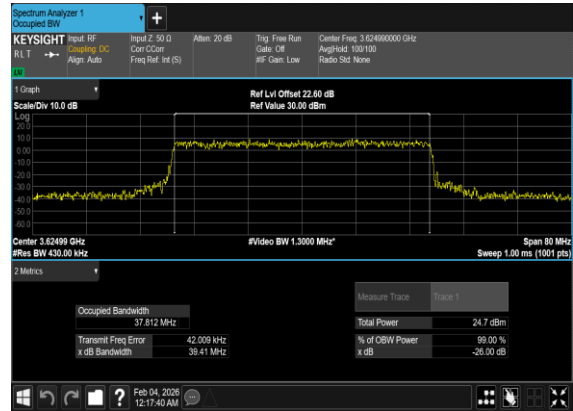




N48(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH





Adjacent Channel Leakage Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	24@0	-15.69	-15.12	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@0	-10.08	-24.53	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@23	-24.89	-13.27	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	-15.47	-15.28	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	-11.0	-24.54	see graph	PASS
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	-24.67	-11.45	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	24@0	-15.61	-13.95	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-10.32	-21.19	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@23	-21.94	-13.77	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	-15.16	-14.69	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	-10.05	-20.82	see graph	PASS
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	-21.41	-12.42	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	24@0	-14.88	-14.33	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@0	-11.28	-20.93	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@23	-21.15	-12.75	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	-15.31	-14.43	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	-11.17	-21.12	see graph	PASS
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	-21.41	-12.24	see graph	PASS
48	30	15	637168	3557.52	DFT-s-OFDM PI/2 BPSK	36@0	-15.12	-18.1	see graph	PASS
48	30	15	637168	3557.52	DFT-s-OFDM PI/2 BPSK	1@0	-7.01	-20.18	see graph	PASS
48	30	15	637168	3557.52	DFT-s-OFDM PI/2 BPSK	1@37	-22.98	-9.79	see graph	PASS
48	30	15	637168	3557.52	DFT-s-OFDM QPSK	36@0	-15.62	-17.76	see graph	PASS
48	30	15	637168	3557.52	DFT-s-OFDM QPSK	1@0	-8.42	-20.76	see graph	PASS
48	30	15	637168	3557.52	DFT-s-OFDM QPSK	1@37	-23.58	-8.87	see graph	PASS
48	30	15	641666	3624.99	DFT-s-OFDM PI/2 BPSK	36@0	-14.31	-17.71	see graph	PASS
48	30	15	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-7.55	-19.35	see graph	PASS
48	30	15	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@37	-19.83	-9.71	see graph	PASS
48	30	15	641666	3624.99	DFT-s-OFDM QPSK	36@0	-15.72	-17.96	see graph	PASS
48	30	15	641666	3624.99	DFT-s-OFDM QPSK	1@0	-8.63	-20.37	see graph	PASS
48	30	15	641666	3624.99	DFT-s-OFDM QPSK	1@37	-19.1	-8.48	see graph	PASS
48	30	15	646166	3692.49	DFT-s-OFDM PI/2 BPSK	36@0	-14.69	-15.16	see graph	PASS



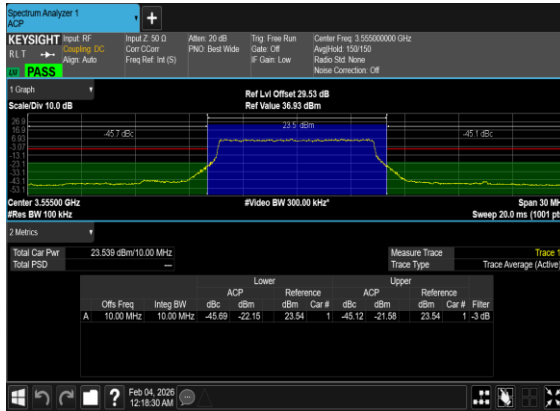
48	30	15	646166	3692.49	DFT-s-OFDM PI/2 BPSK	1@0	-8.12	-19.41	see graph	PASS
48	30	15	646166	3692.49	DFT-s-OFDM PI/2 BPSK	1@37	-17.25	-9.61	see graph	PASS
48	30	15	646166	3692.49	DFT-s-OFDM QPSK	36@0	-14.35	-15.82	see graph	PASS
48	30	15	646166	3692.49	DFT-s-OFDM QPSK	1@0	-8.68	-19.46	see graph	PASS
48	30	15	646166	3692.49	DFT-s-OFDM QPSK	1@37	-16.49	-7.84	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	50@0	-17.06	-14.59	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@0	-12.11	-19.57	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@50	-21.92	-13.51	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	-15.48	-15.8	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	-11.28	-18.84	see graph	PASS
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@50	-22.27	-13.0	see graph	PASS
48	30	20	641666	3560.01	DFT-s-OFDM PI/2 BPSK	50@0	-12.69	-13.43	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-11.07	-18.77	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@50	-19.72	-12.81	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	-15.41	-16.14	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	-10.75	-18.34	see graph	PASS
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@50	-19.45	-13.09	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	50@0	-14.41	-12.33	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@0	-11.52	-18.12	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@50	-15.84	-11.71	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	50@0	-13.94	-14.09	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	-12.28	-18.03	see graph	PASS
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@50	-15.56	-11.2	see graph	PASS
48	30	30	637668	3565.02	DFT-s-OFDM PI/2 BPSK	75@0	-8.48	-8.28	see graph	PASS
48	30	30	637668	3565.02	DFT-s-OFDM PI/2 BPSK	1@0	-8.53	-8.97	see graph	PASS
48	30	30	637668	3565.02	DFT-s-OFDM PI/2 BPSK	1@77	-9.04	-8.23	see graph	PASS
48	30	30	637668	3565.02	DFT-s-OFDM QPSK	75@0	-8.51	-8.18	see graph	PASS
48	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@0	-8.03	-8.28	see graph	PASS
48	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@77	-8.45	-7.65	see graph	PASS
48	30	30	641666	3565.02	DFT-s-OFDM PI/2 BPSK	75@0	-8.43	-8.23	see graph	PASS
48	30	30	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-12.47	-14.52	see graph	PASS
48	30	30	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@77	-15.43	-12.92	see graph	PASS
48	30	30	641666	3624.99	DFT-s-OFDM QPSK	75@0	-13.64	-13.47	see graph	PASS
48	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@0	-12.61	-14.51	see graph	PASS



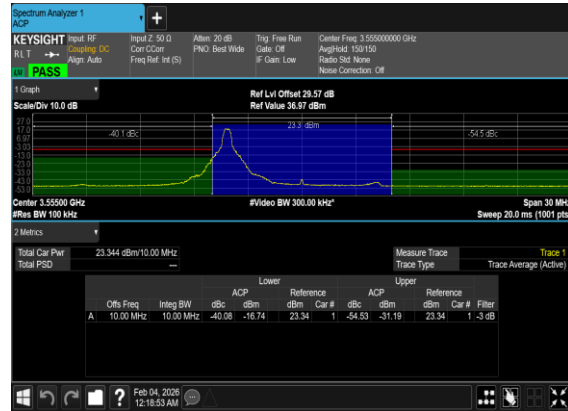
48	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@77	-15.27	-13.18	see graph	PASS
48	30	30	645666	3684.99	DFT-s-OFDM PI/2 BPSK	75@0	-7.85	-7.26	see graph	PASS
48	30	30	645666	3684.99	DFT-s-OFDM PI/2 BPSK	1@0	-7.45	-7.51	see graph	PASS
48	30	30	645666	3684.99	DFT-s-OFDM PI/2 BPSK	1@77	-8.44	-7.18	see graph	PASS
48	30	30	645666	3684.99	DFT-s-OFDM QPSK	75@0	-7.8	-7.15	see graph	PASS
48	30	30	645666	3684.99	DFT-s-OFDM QPSK	1@0	-7.2	-7.07	see graph	PASS
48	30	30	645666	3684.99	DFT-s-OFDM QPSK	1@77	-9.45	-8.17	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	100@0	-7.27	-6.85	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@0	-6.57	-6.71	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@105	-6.97	-6.05	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	100@0	-7.34	-6.88	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	-6.85	-6.97	see graph	PASS
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@105	-7.45	-6.51	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	-11.39	-10.93	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-12.2	-13.74	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@105	-13.89	-11.55	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	-11.45	-11.39	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	-12.05	-13.21	see graph	PASS
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@105	-14.39	-11.91	see graph	PASS
48	30	40	645332	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	-9.92	-10.09	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@0	-6.26	-5.8	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@105	-7.32	-5.95	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	100@0	-6.66	-5.93	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	-6.17	-5.75	see graph	PASS
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@105	-7.18	-5.76	see graph	PASS



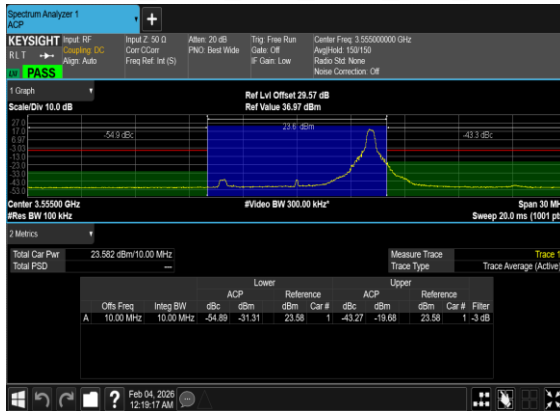
N48(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CH



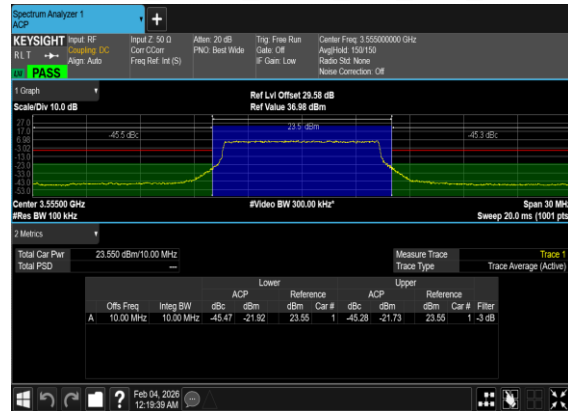
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BPSK_Edge_1RB_Left_Low_CH



N48(10M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Right_Low_CH

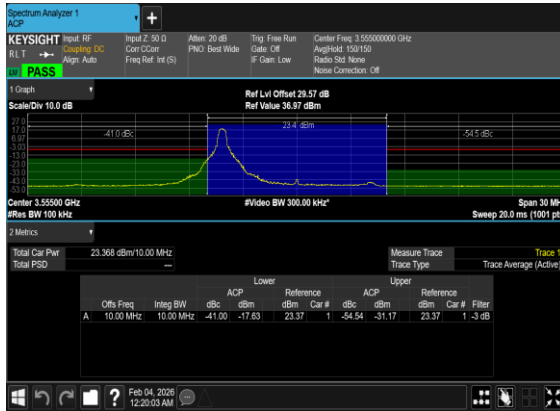


N48(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

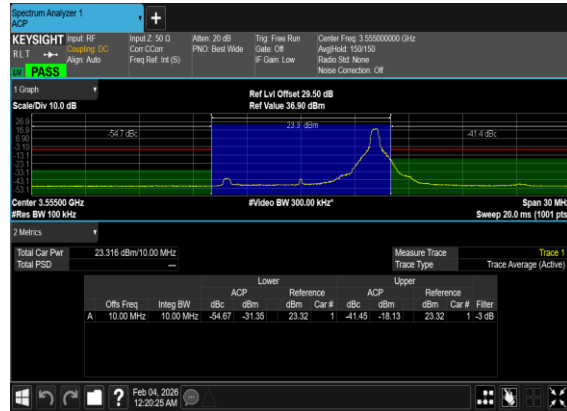




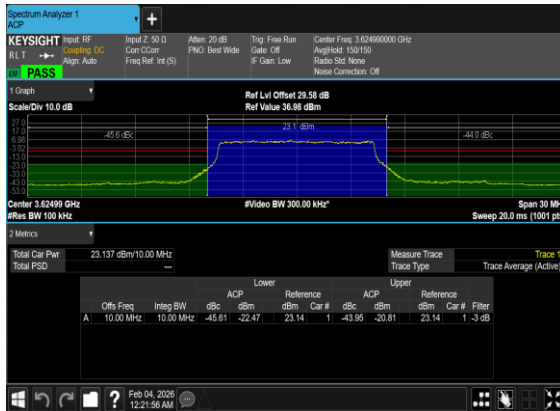
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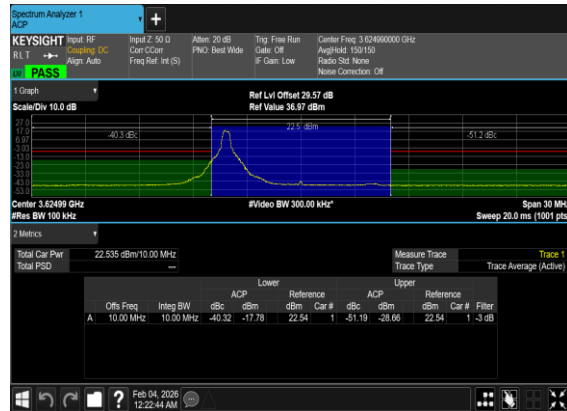
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N48(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

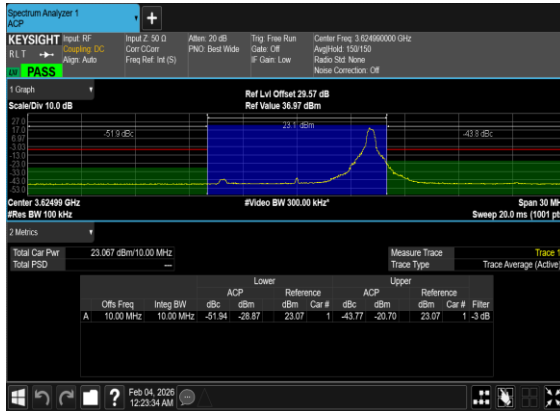


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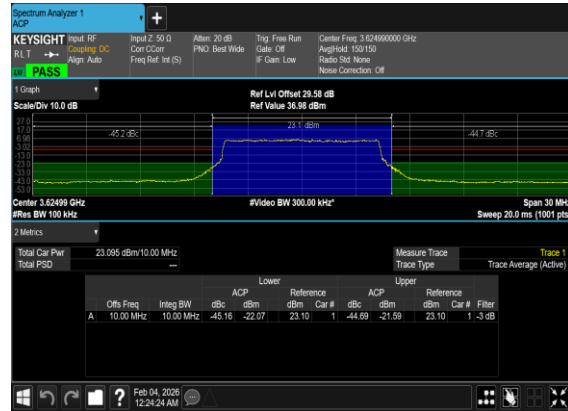




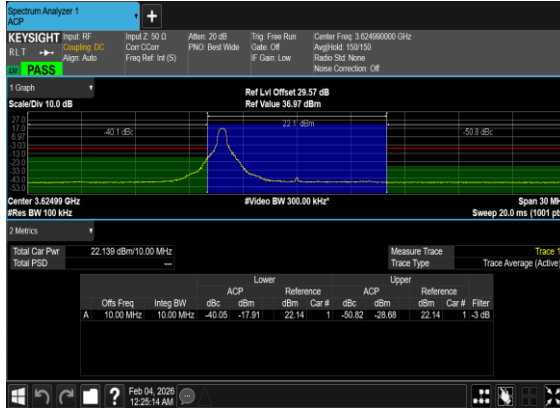
N48(10M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Right_Mid_CH



N48(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



N48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH

