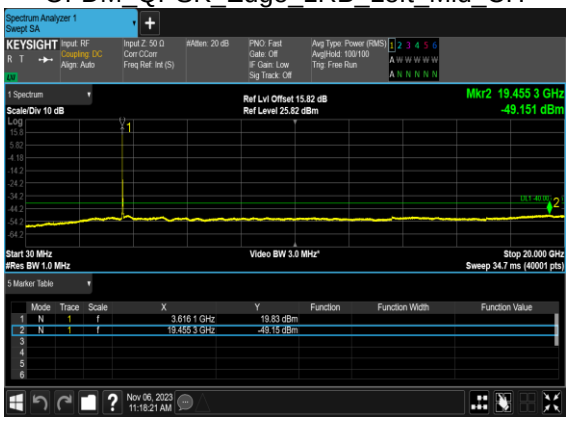
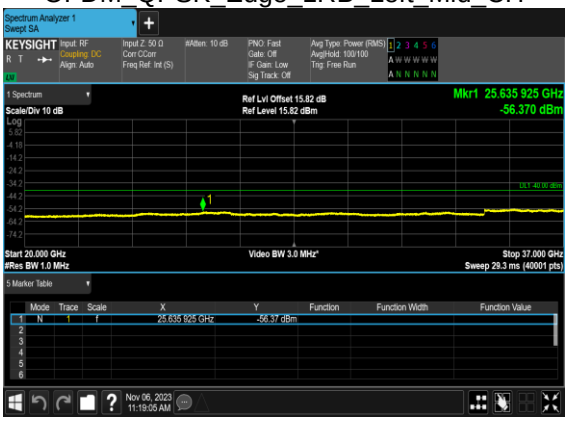
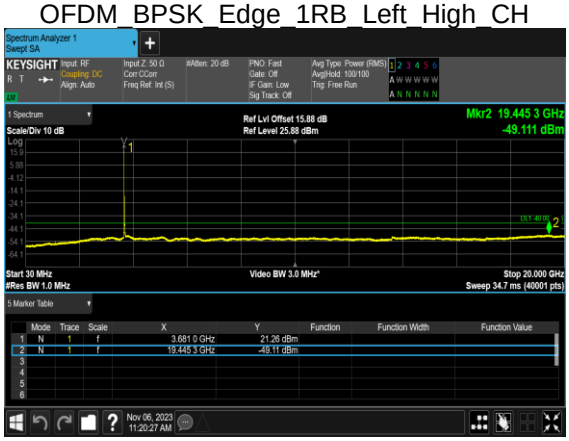
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



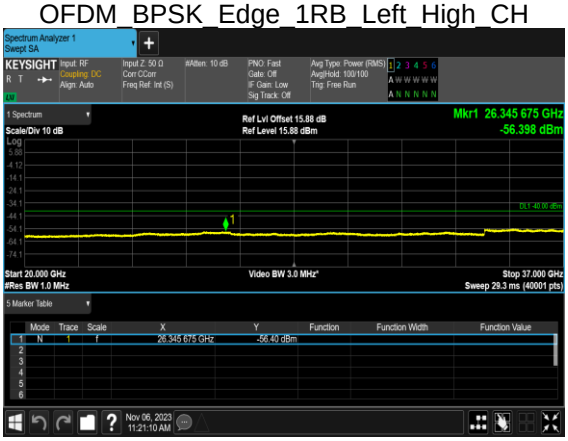
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



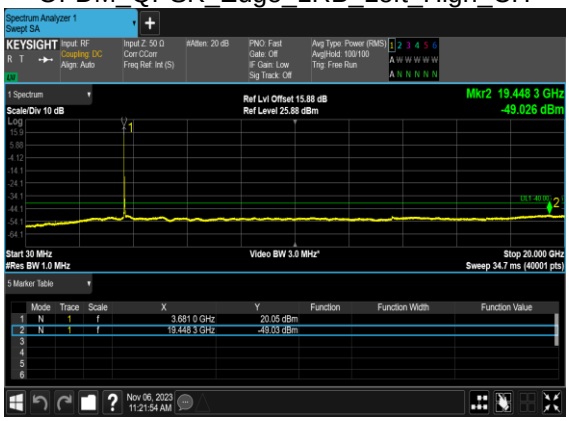
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

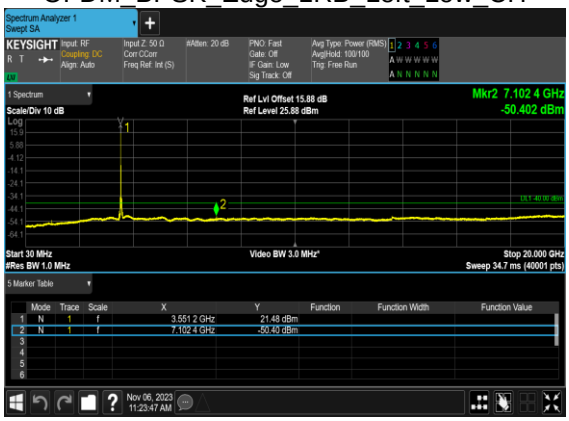


N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

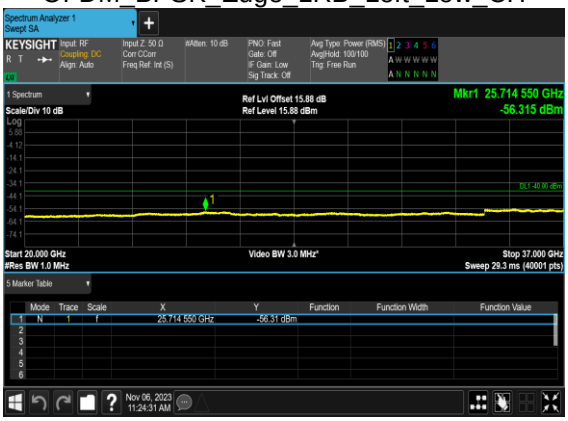


N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

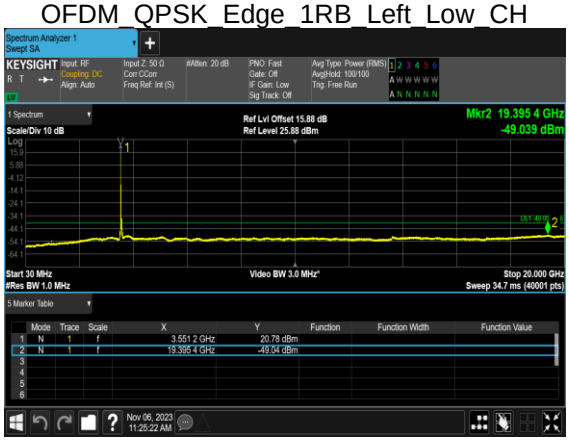
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



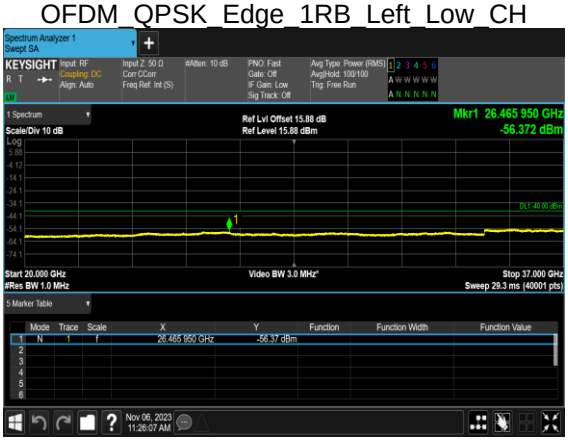
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



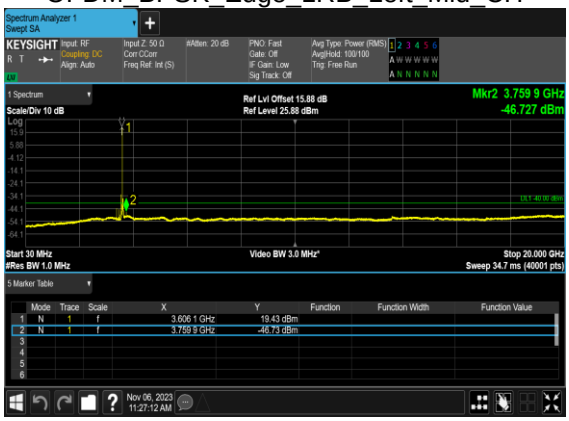
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

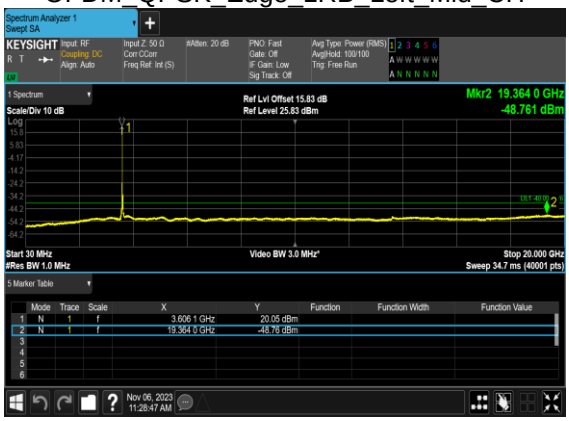


N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

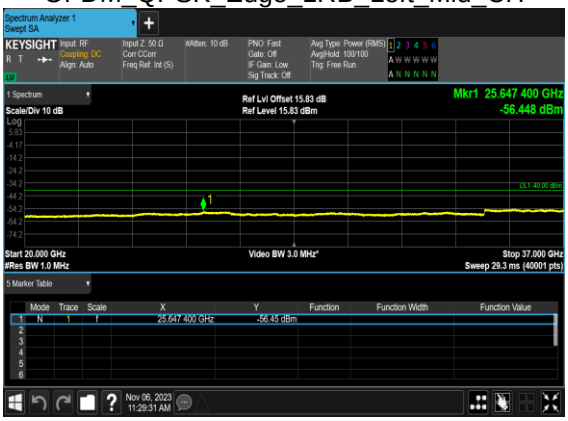


N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

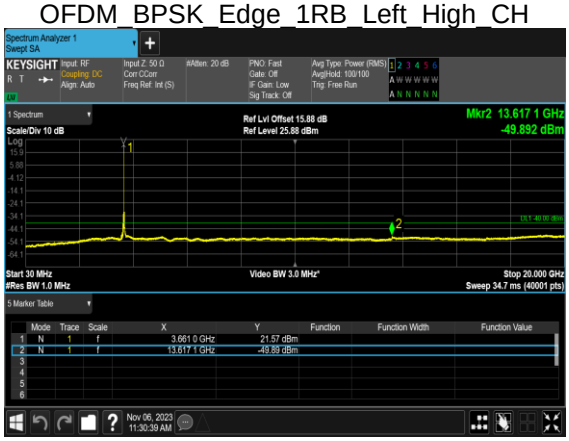
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



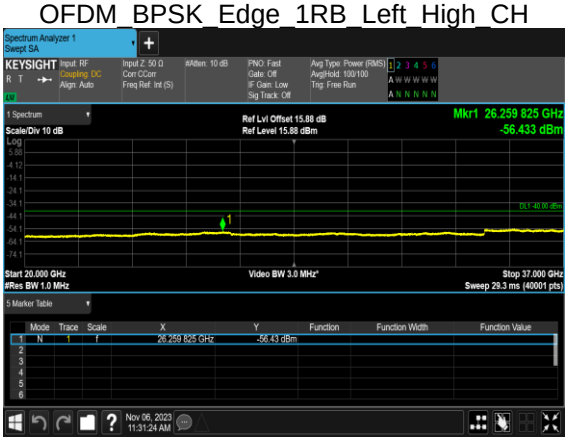
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



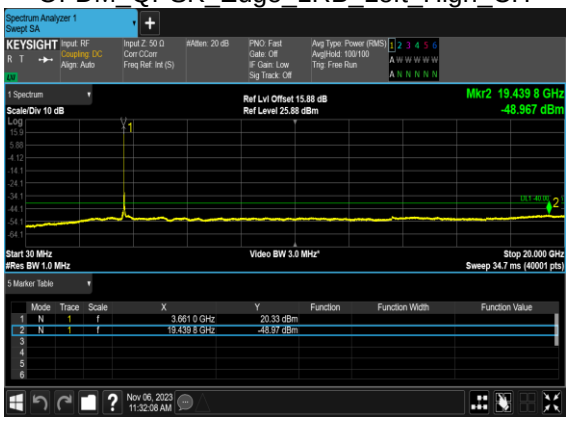
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



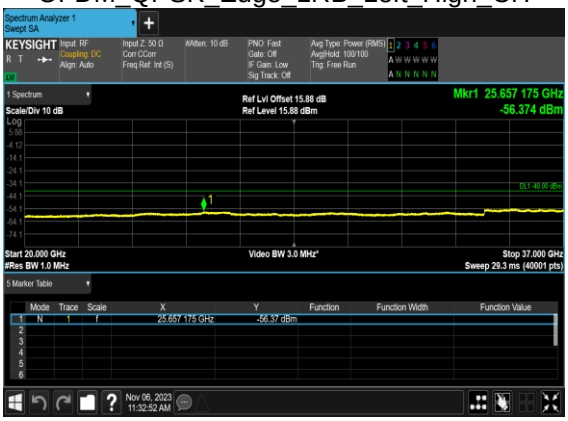
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

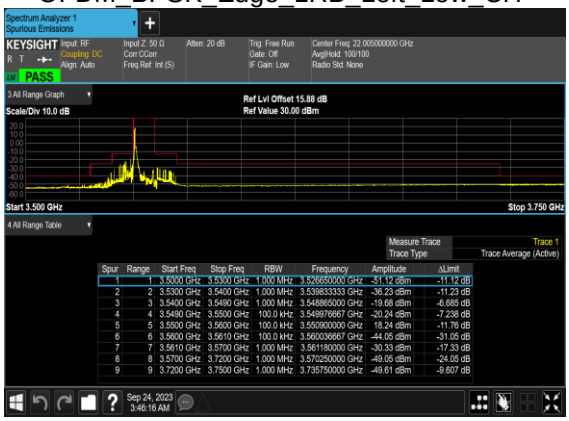


Conducted Band Edge

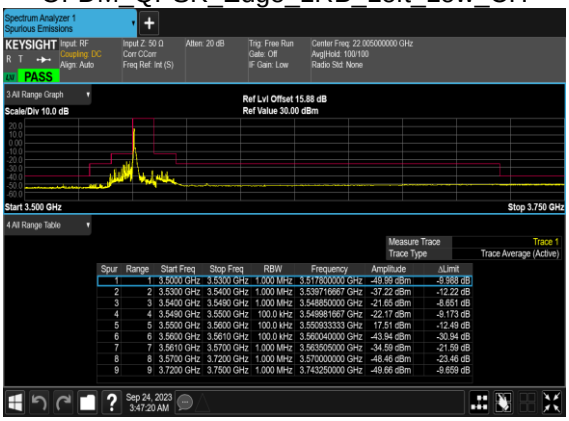
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	1@23	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
48	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	1@23	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	1@23	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	1@50	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@50	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	1@50	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@50	see graph	**PASS**
48	30	20	641666	3624.99	DFT-s-OFDM BPSK	50@0	see graph	**PASS**

48	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	1@50	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	1@50	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	30	20	646000	3690.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	30	40	638000	3570.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	100@0	see graph	**PASS**

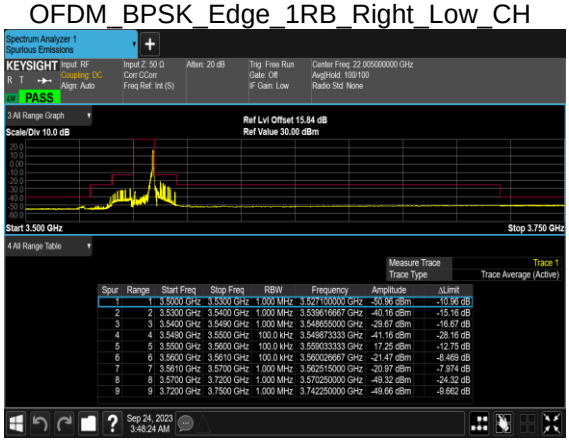
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



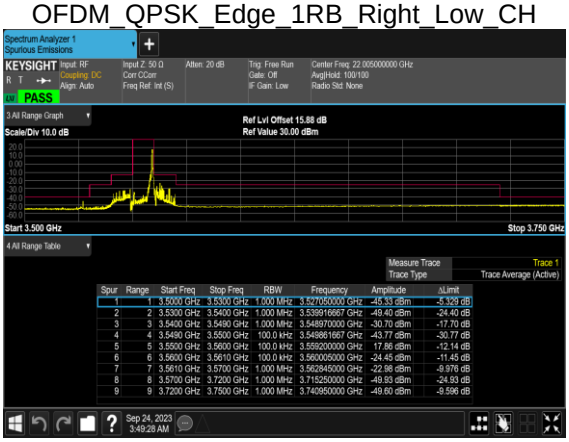
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



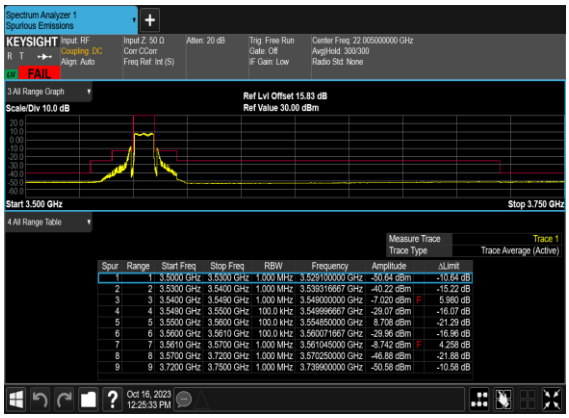
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



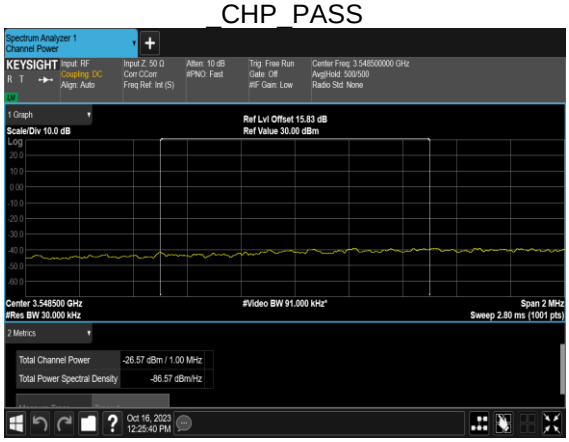
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



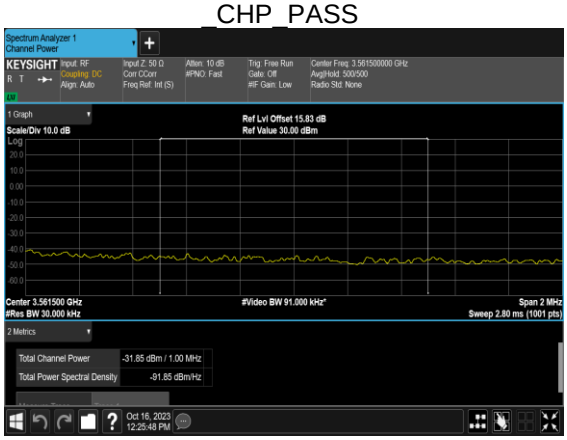
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



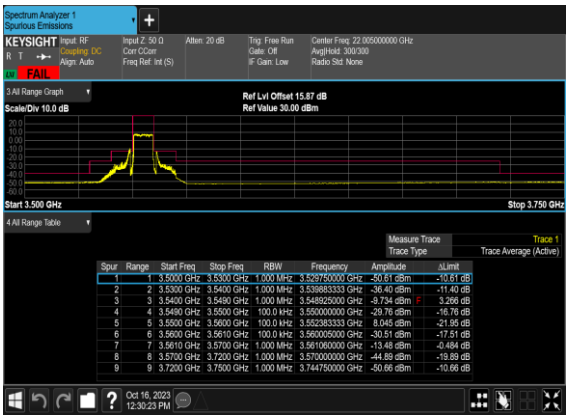
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH_CHP_PASS



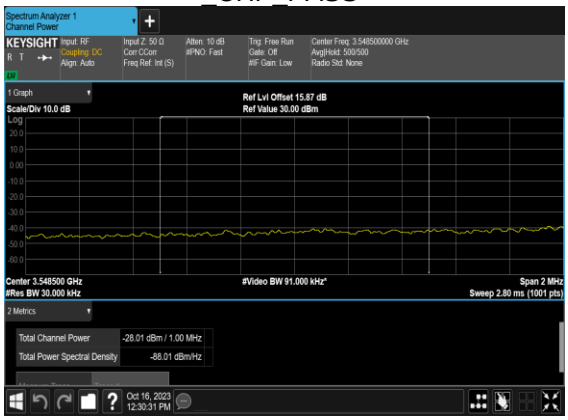
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH_CHP_PASS



N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

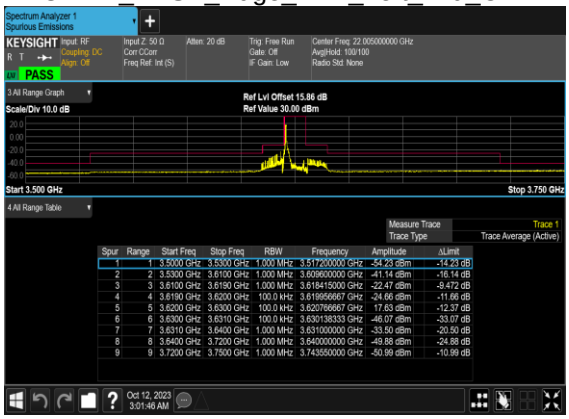


N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS

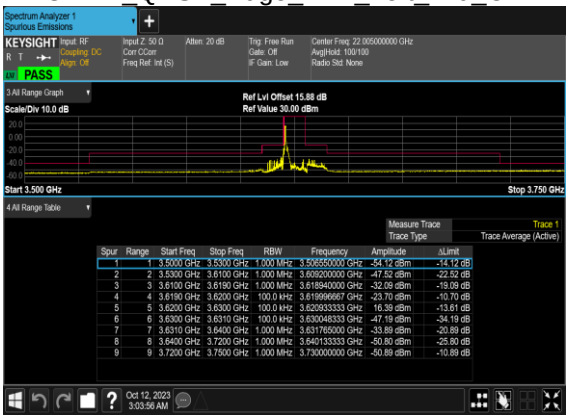


N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS

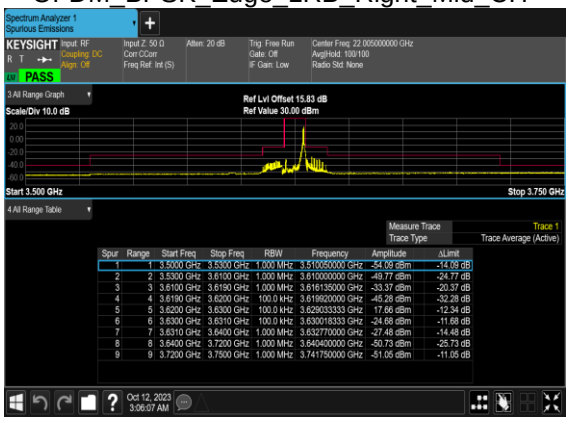
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



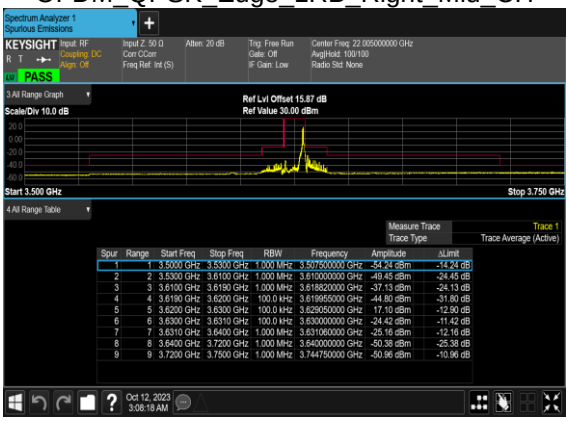
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH

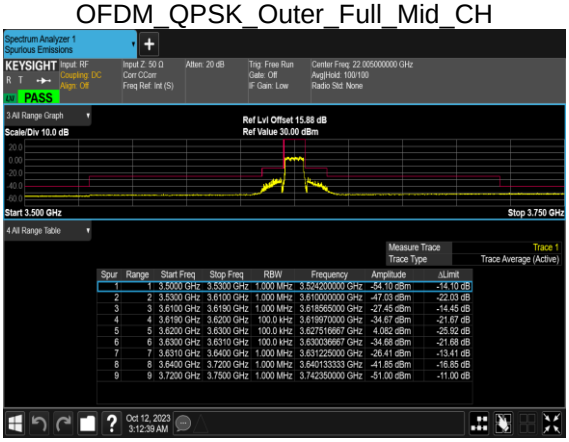


N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH

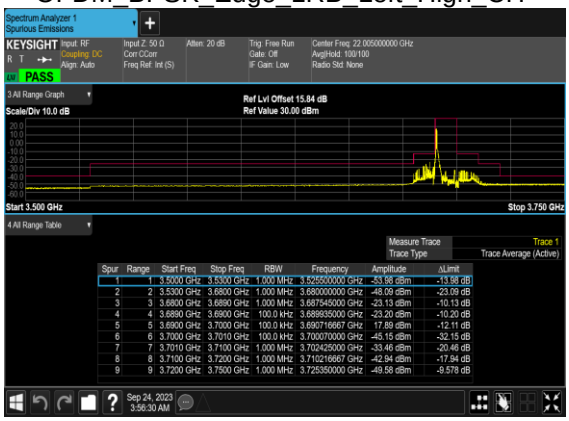


N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH

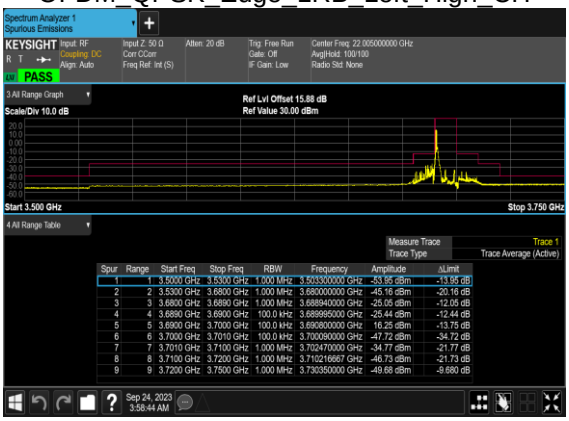
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



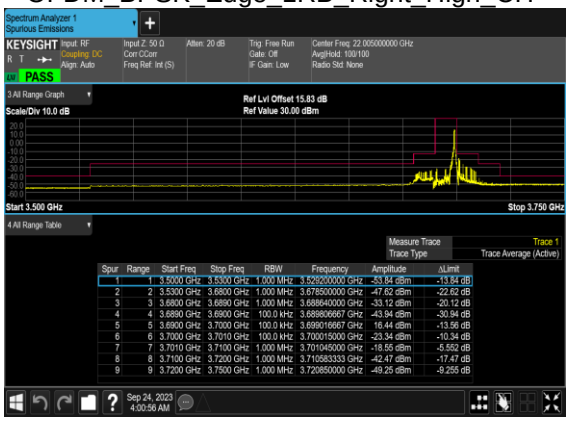
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



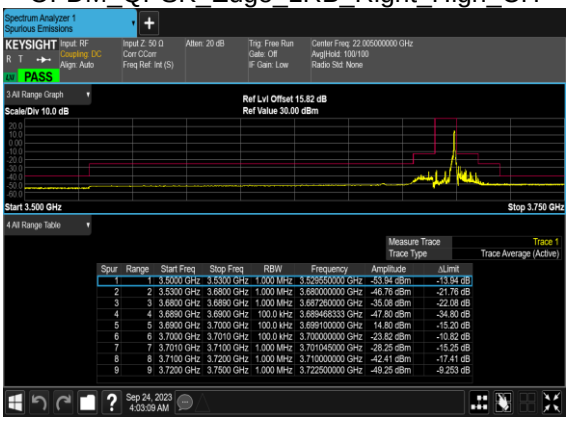
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



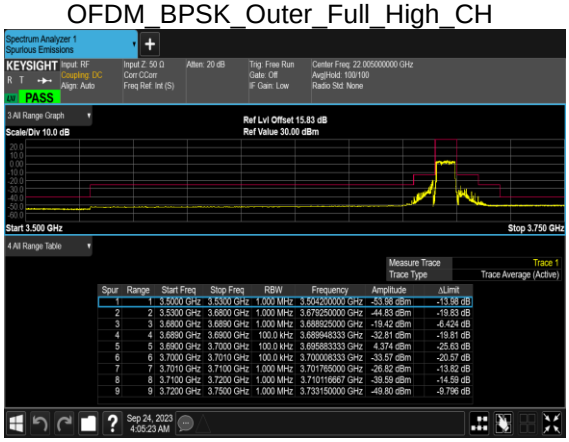
N48(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



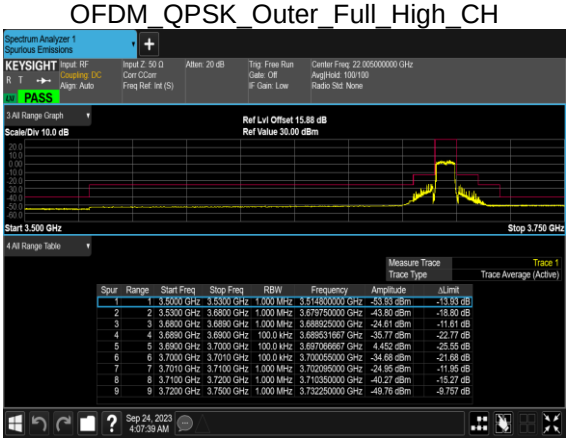
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



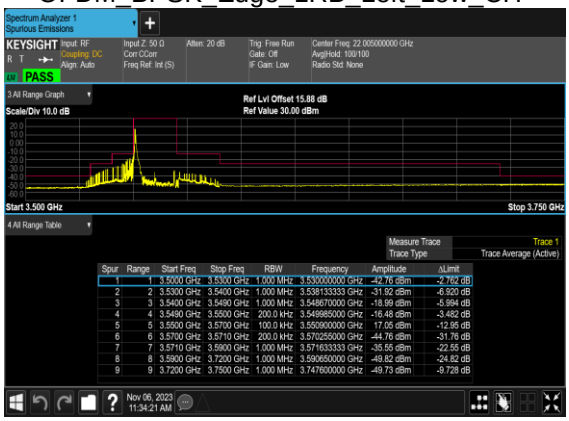
N48(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



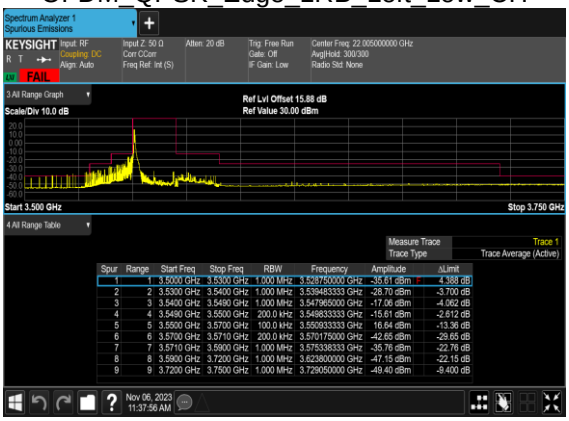
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



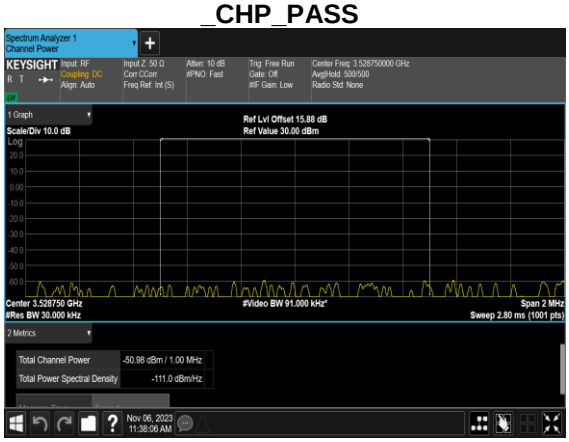
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



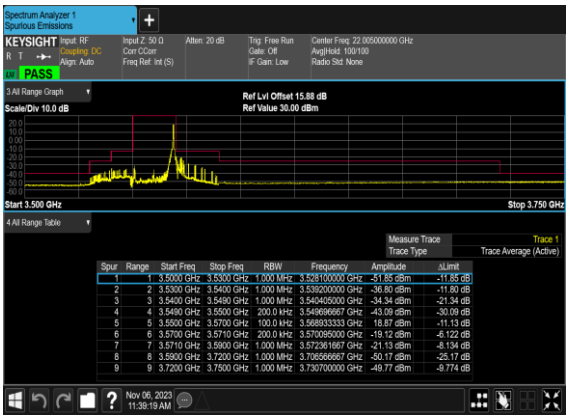
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



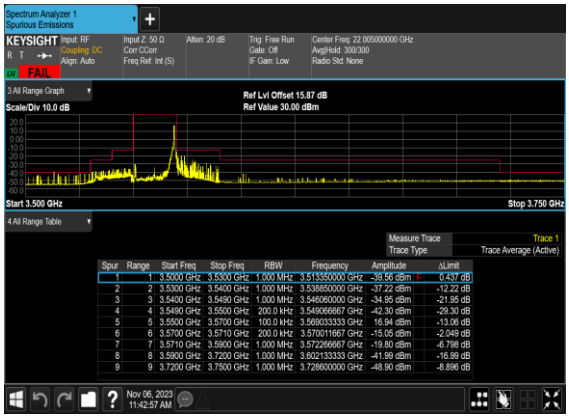
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_**CHP_PASS**



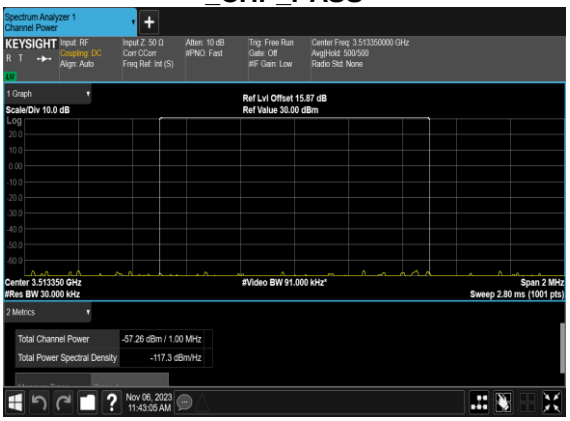
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



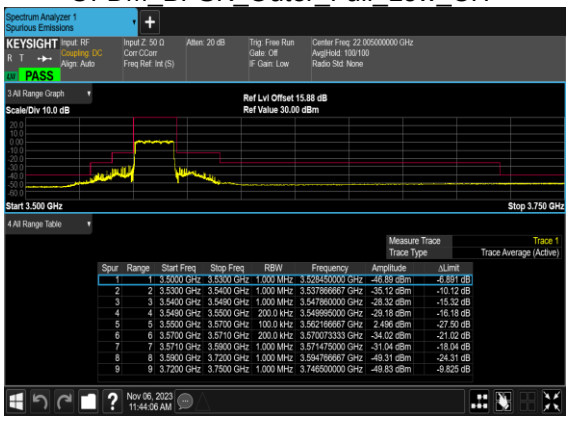
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



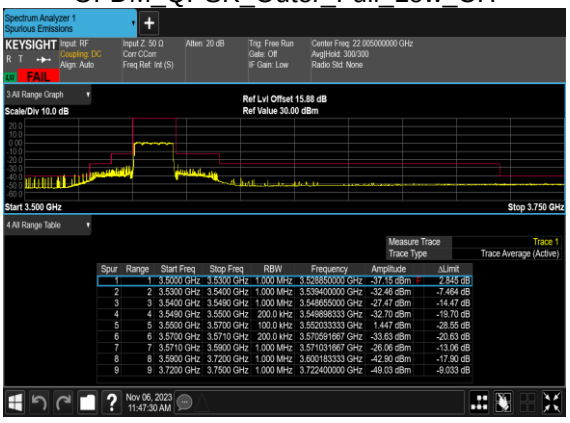
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH_**CHP_PASS**



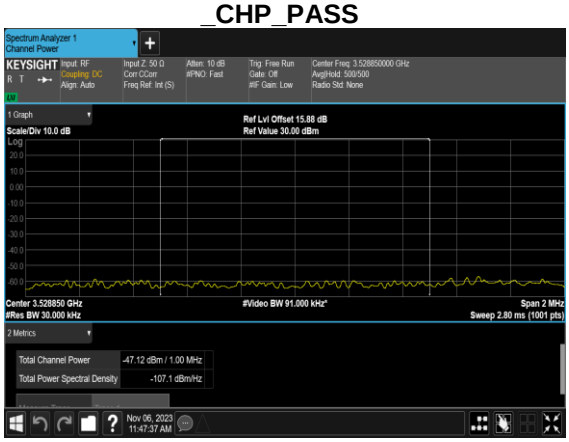
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



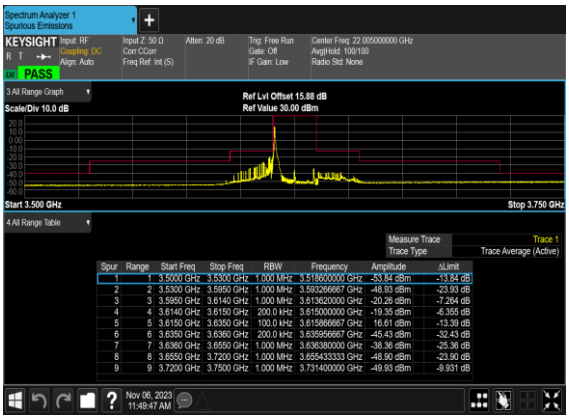
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



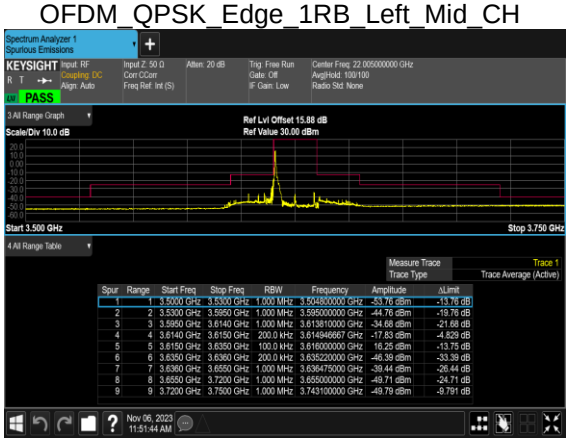
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH_**CHP_PASS**



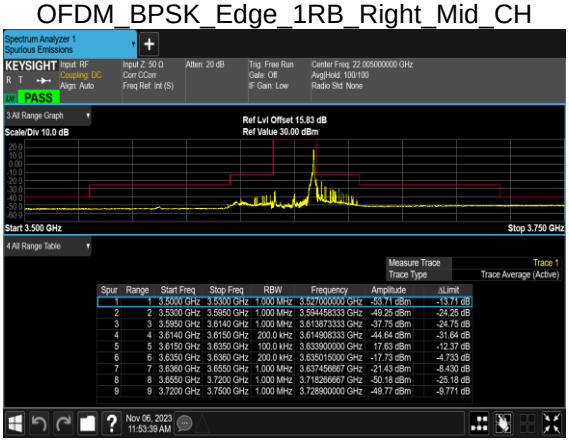
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



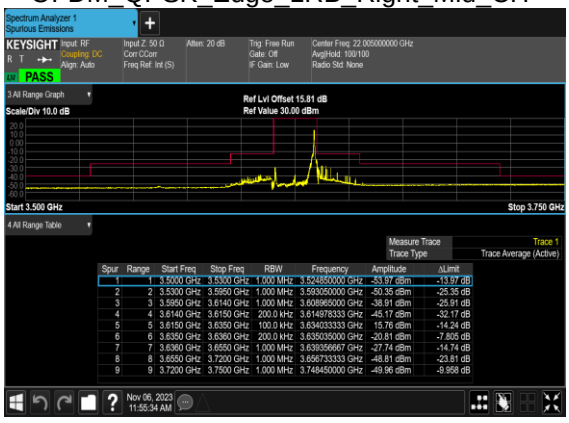
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



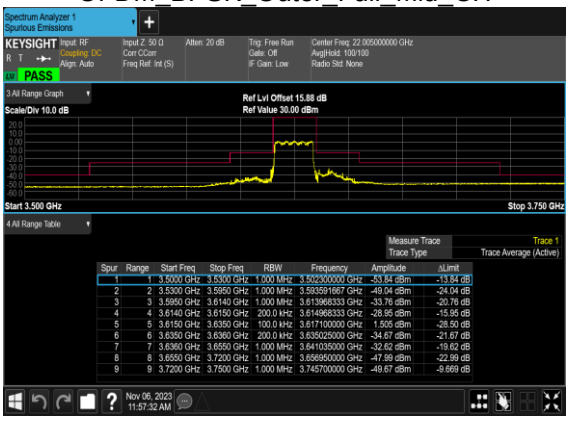
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



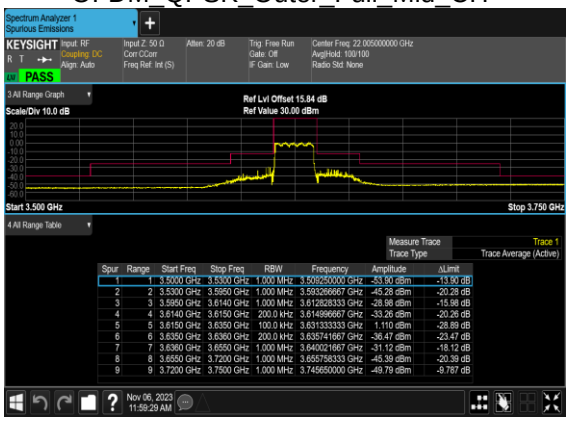
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



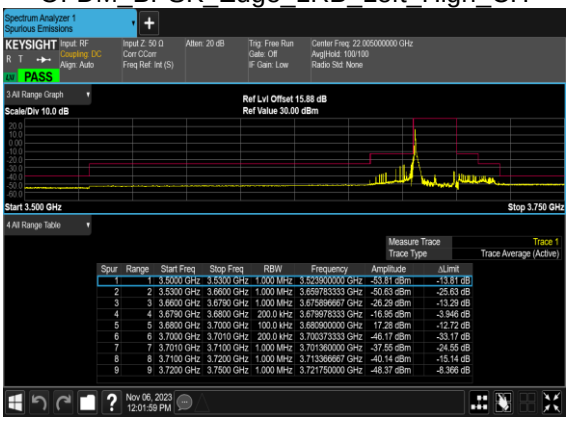
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



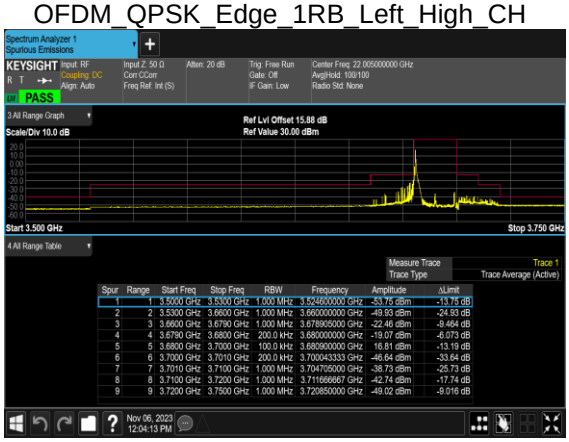
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



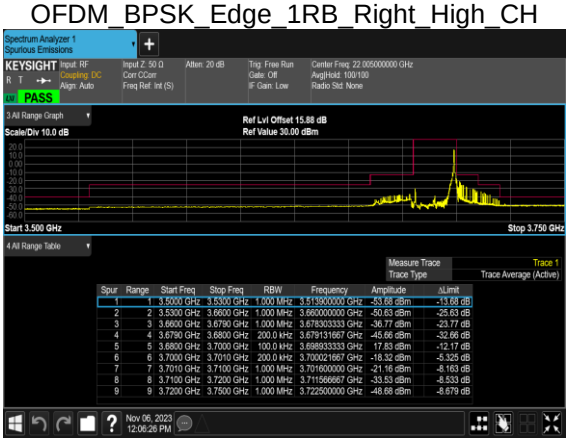
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



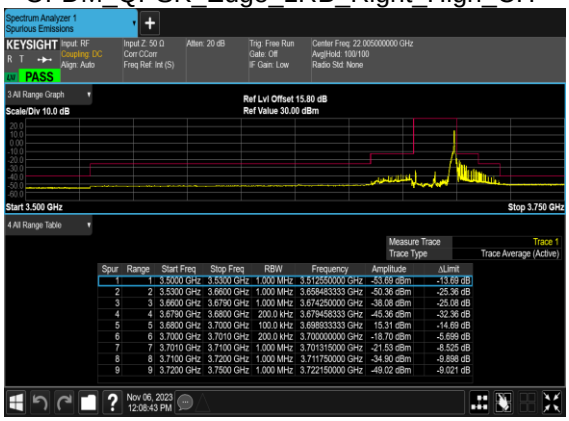
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



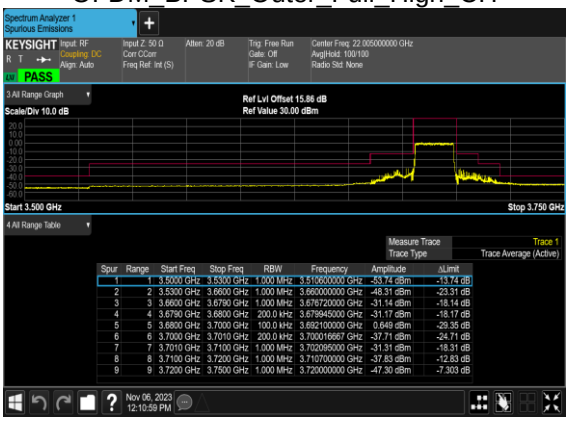
N48(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



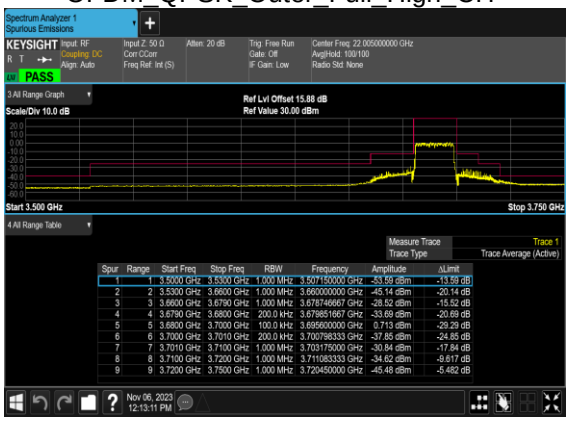
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



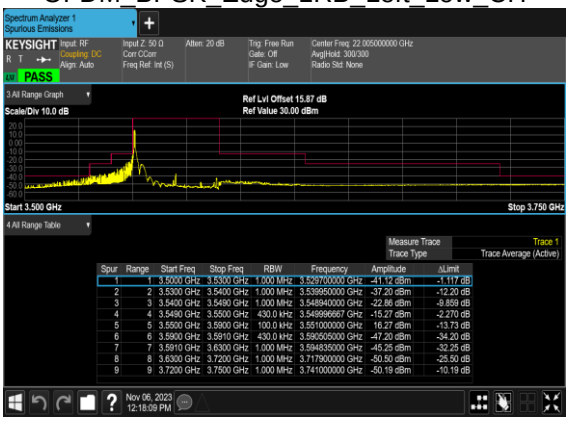
N48(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



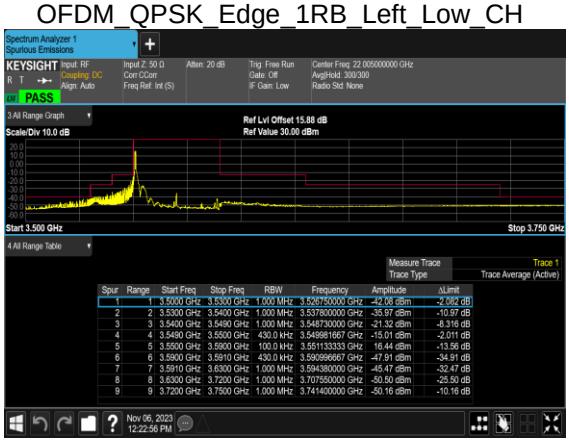
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



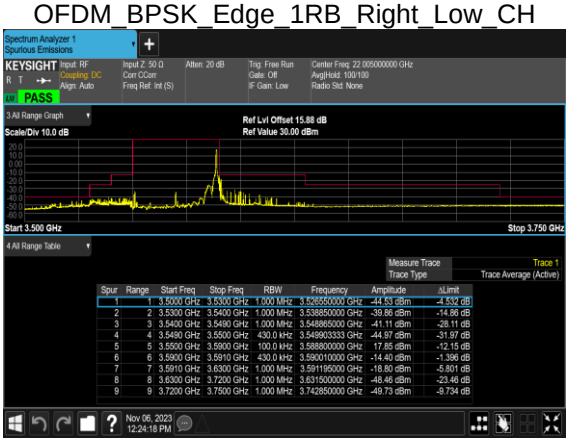
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



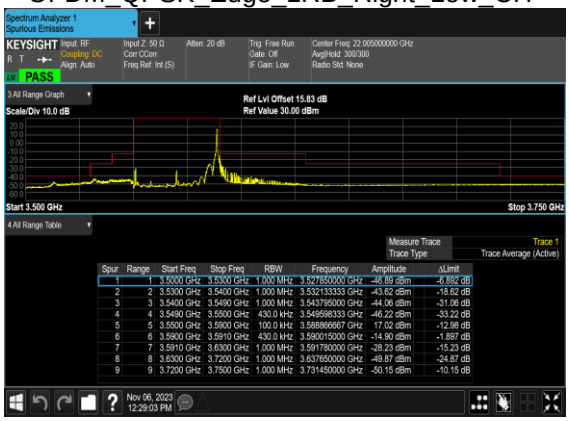
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



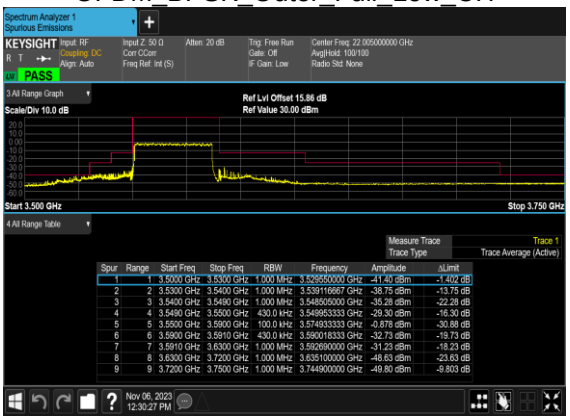
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Low_CH



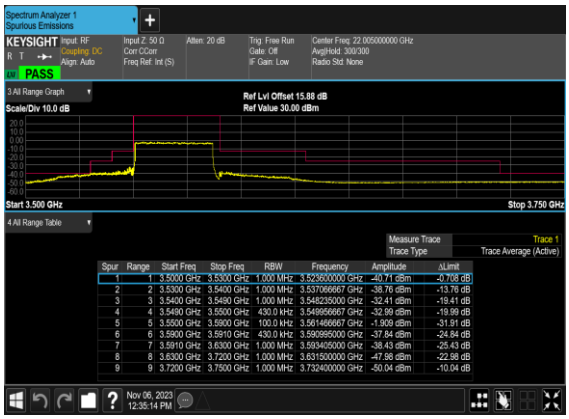
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



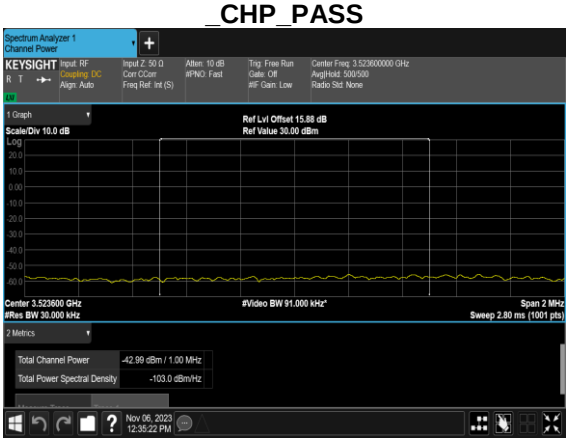
N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



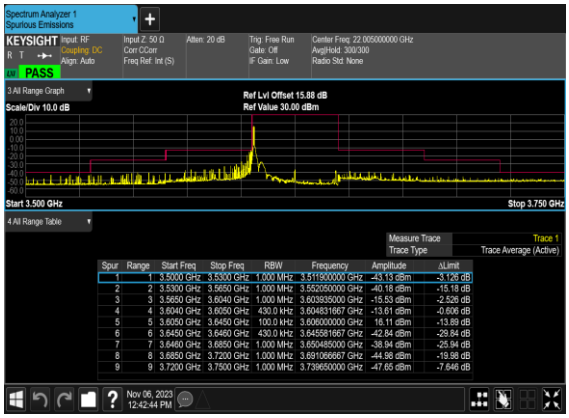
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH **_CHP_PASS**

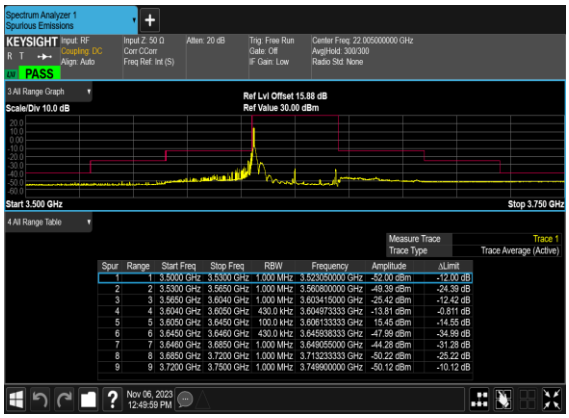


N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

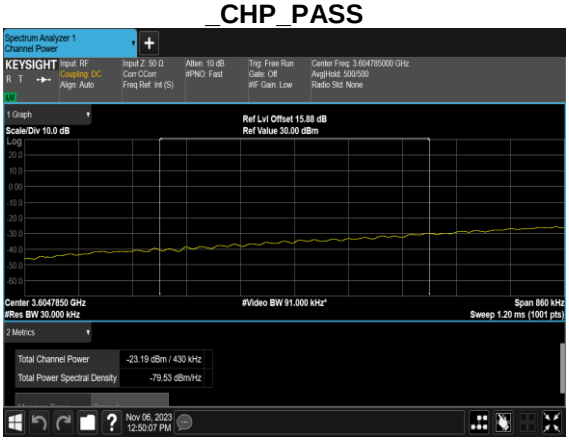


N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH **_CHP_PASS**

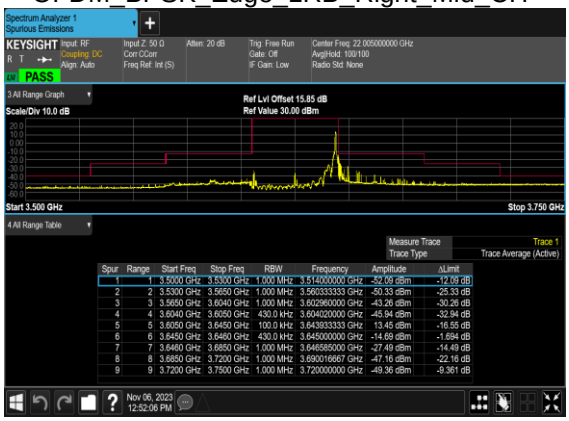
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



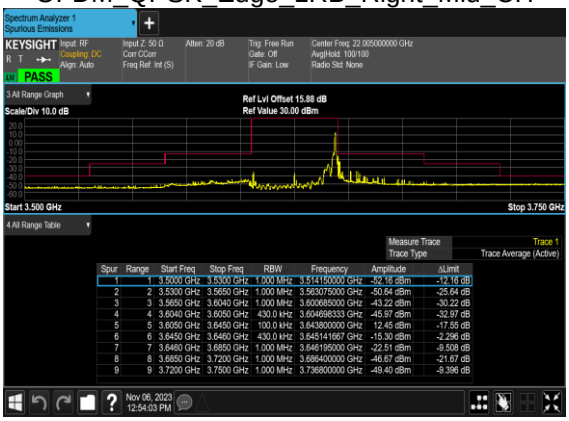
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH **_CHP_PASS**



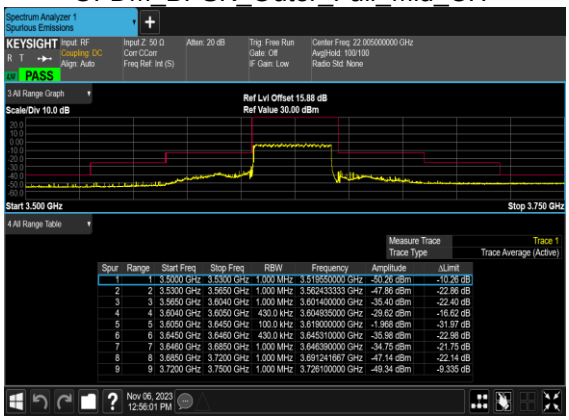
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



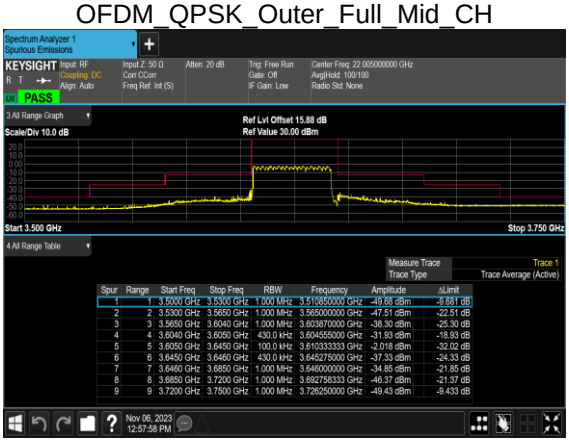
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



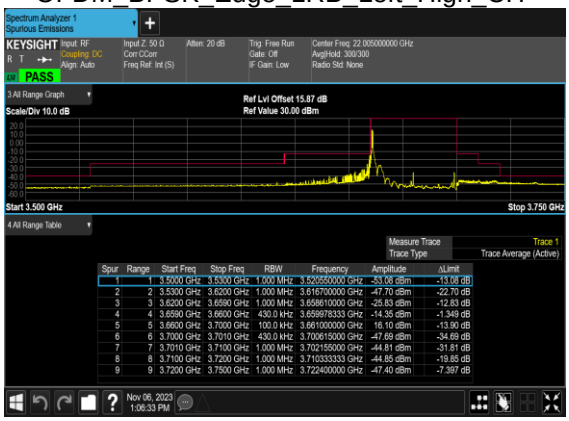
N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



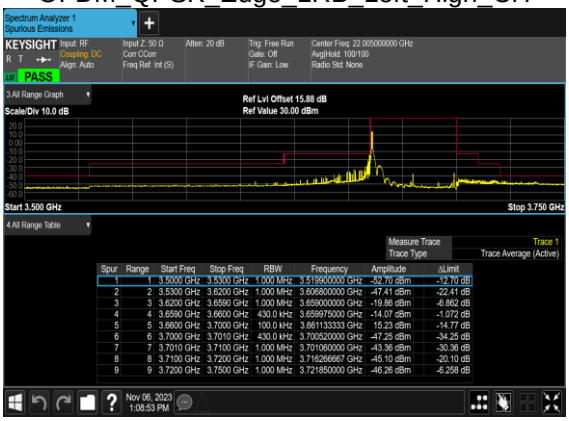
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



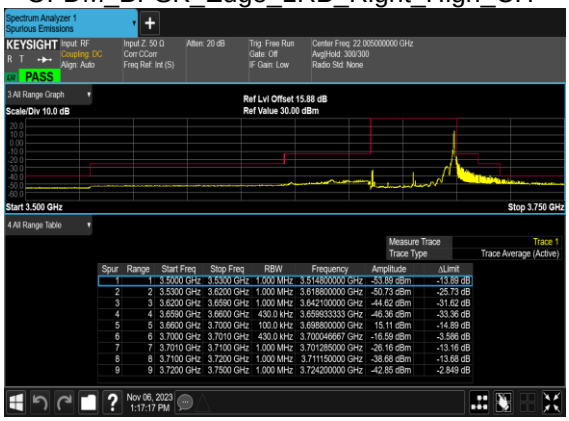
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



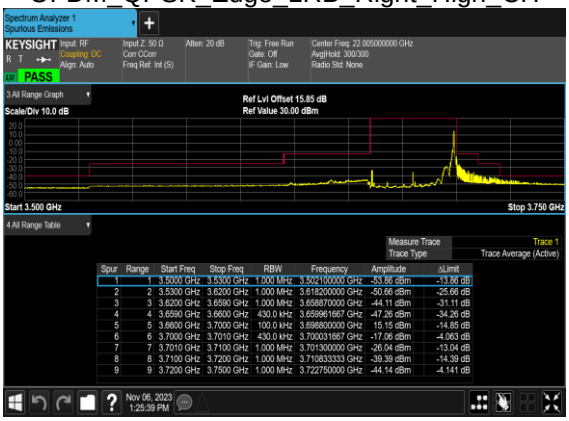
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



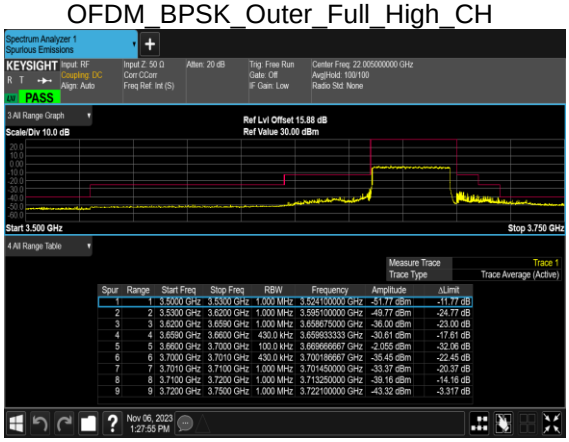
N48(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



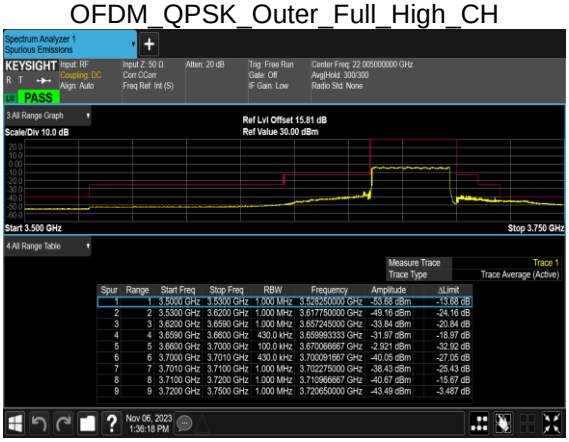
N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N48(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

SA n48 / NR 40MHz / QPSK / ANT5(NR)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7104.00	-57.50	-40	-17.50	-65.69	-60.83	8.25	11.58	H
	10656.00	-55.96	-40	-15.96	-68.84	-57.51	10.45	12.00	H
	14208.00	-54.00	-40	-14.00	-69.88	-55.71	11.74	13.45	H
	7104.00	-55.19	-40	-15.19	-64.54	-58.52	8.25	11.58	V
	10656.00	-53.35	-40	-13.35	-68.69	-54.90	10.45	12.00	V
	14208.00	-54.49	-40	-14.49	-69.76	-56.20	11.74	13.45	V
Middle	7212.46	-58.13	-40	-18.13	-66.74	-61.43	8.30	11.60	H
	10818.69	-54.95	-40	-14.95	-68.58	-56.47	10.48	12.00	H
	14424.92	-53.12	-40	-13.12	-69.29	-54.82	11.80	13.50	H
	7212.46	-56.02	-40	-16.02	-66.76	-59.32	8.30	11.60	V
	10818.69	-53.18	-40	-13.18	-68.42	-54.70	10.48	12.00	V
	14424.92	-53.28	-40	-13.28	-69.01	-54.98	11.80	13.50	V
Highest	7323.96	-58.10	-40	-18.10	-66.94	-61.40	8.32	11.62	H
	10985.94	-53.93	-40	-13.93	-68.24	-55.61	10.52	12.20	H
	14647.92	-53.32	-40	-13.32	-69.99	-55.02	11.85	13.55	H
	7323.96	-57.50	-40	-17.50	-67.09	-60.80	8.32	11.62	V
	10985.94	-53.34	-40	-13.34	-68.4	-55.02	10.52	12.20	V
	14647.92	-53.65	-40	-13.65	-70.26	-55.35	11.85	13.55	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_71A_n48A / LTE 20MHz + NR 40MHz / QPSK / ANT0 (LTE) & ANT5(NR)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n48 Lowest	7104.00	-57.72	-40	-17.72	-65.91	-61.05	8.25	11.58	H
	10656.00	-55.73	-40	-15.73	-68.61	-57.28	10.45	12.00	H
	14208.00	-53.27	-40	-13.27	-69.15	-54.98	11.74	13.45	H
	7104.00	-56.54	-40	-16.54	-65.89	-59.87	8.25	11.58	V
	10656.00	-53.34	-40	-13.34	-68.68	-54.89	10.45	12.00	V
	14208.00	-54.14	-40	-14.14	-69.41	-55.85	11.74	13.45	V
LTE Band71 Lowest	1343	-63.51	-13	-50.51	-74.52	-66.76	4.00	9.40	H
	2014.5	-58.40	-13	-45.40	-76.11	-61.97	4.88	10.60	H
	2686	-57.02	-13	-44.02	-76.65	-61.95	5.52	12.60	H
	1343	-62.33	-13	-49.33	-74.29	-65.58	4.00	9.40	V
	2014.5	-58.71	-13	-45.71	-76.31	-62.28	4.88	10.60	V
	2686	-56.79	-13	-43.79	-76.88	-61.72	5.52	12.60	V
NR n48 Middle	7212.46	-58.09	-40	-18.09	-66.70	-61.39	8.30	11.60	H
	10818.69	-54.19	-40	-14.19	-67.82	-55.71	10.48	12.00	H
	14424.92	-52.31	-40	-12.31	-68.48	-54.01	11.80	13.50	H
	7212.46	-56.10	-40	-16.10	-66.84	-59.40	8.30	11.60	V
	10818.69	-52.42	-40	-12.42	-67.66	-53.94	10.48	12.00	V
	14424.92	-52.66	-40	-12.66	-68.39	-54.36	11.80	13.50	V
LTE Band71 Middle	1343	-63.46	-13	-50.46	-74.47	-66.71	4.00	9.40	H
	2014.5	-58.54	-13	-45.54	-76.25	-62.11	4.88	10.60	H
	2686	-57.07	-13	-44.07	-76.70	-62.00	5.52	12.60	H
	1343	-62.44	-13	-49.44	-74.40	-65.69	4.00	9.40	V
	2014.5	-58.68	-13	-45.68	-76.28	-62.25	4.88	10.60	V
	2686	-56.18	-13	-43.18	-76.27	-61.11	5.52	12.60	V
NR n48 Highest	7323.96	-58.26	-40	-18.26	-67.10	-61.56	8.32	11.62	H
	10985.94	-54.24	-40	-14.24	-68.55	-55.92	10.52	12.20	H
	14647.92	-52.69	-40	-12.69	-69.36	-54.39	11.85	13.55	H
	7323.96	-57.37	-40	-17.37	-66.96	-60.67	8.32	11.62	V
	10985.94	-52.95	-40	-12.95	-68.01	-54.63	10.52	12.20	V
	14647.92	-52.77	-40	-12.77	-69.38	-54.47	11.85	13.55	V
LTE Band71 Highest	1343	-63.43	-13	-50.43	-74.44	-66.68	4.00	9.40	H
	2014.5	-58.51	-13	-45.51	-76.22	-62.08	4.88	10.60	H
	2686	-57.14	-13	-44.14	-76.77	-62.07	5.52	12.60	H
	1343	-62.26	-13	-49.26	-74.22	-65.51	4.00	9.40	V
	2014.5	-58.23	-13	-45.23	-75.83	-61.80	4.88	10.60	V
	2686	-56.56	-13	-43.56	-76.65	-61.49	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.