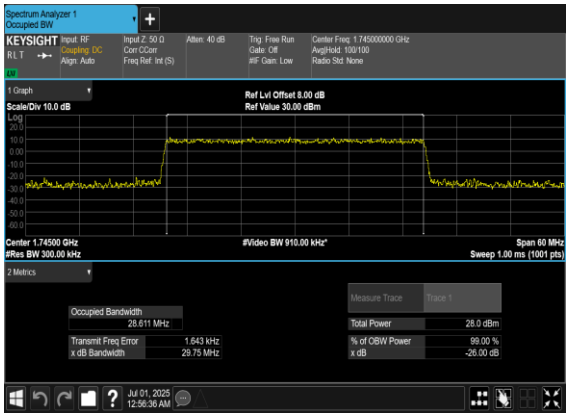
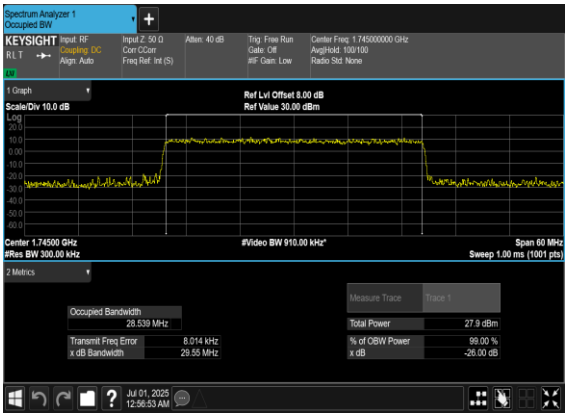
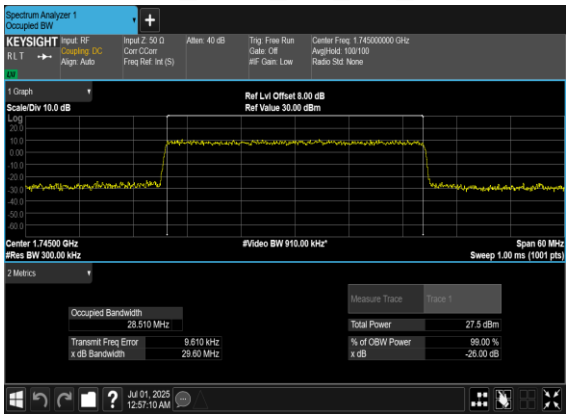
N66(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



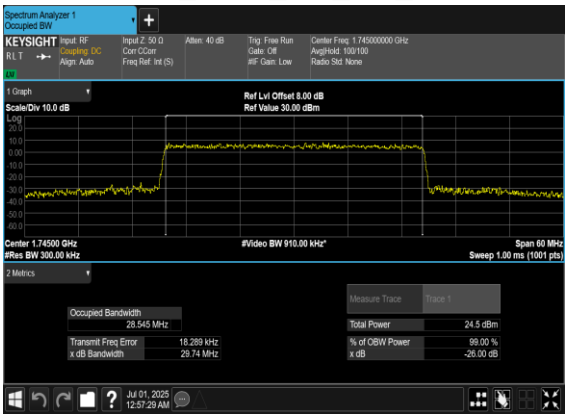
N66(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N66(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

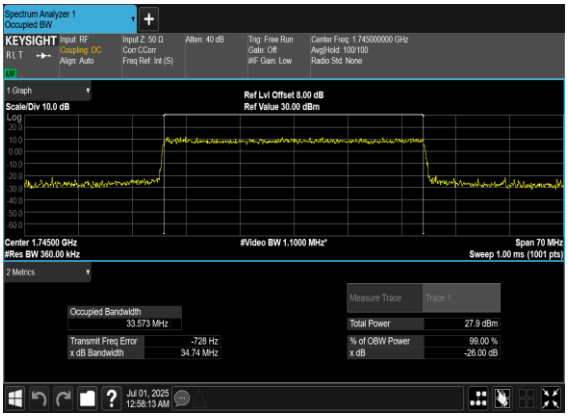


N66(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

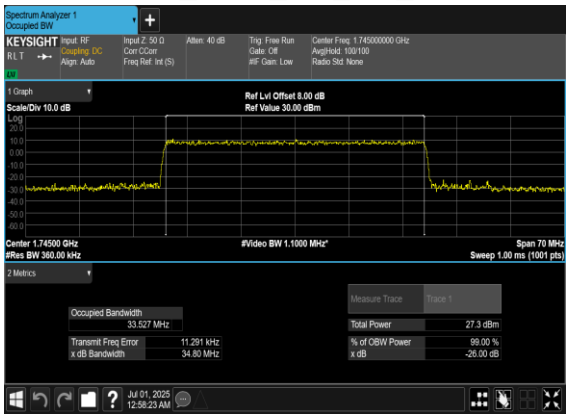


N66(35M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

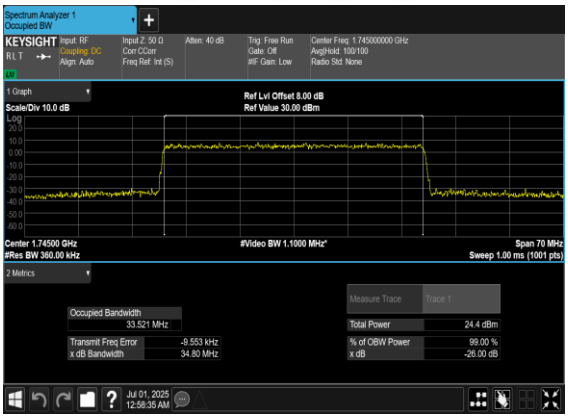
N66(35M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



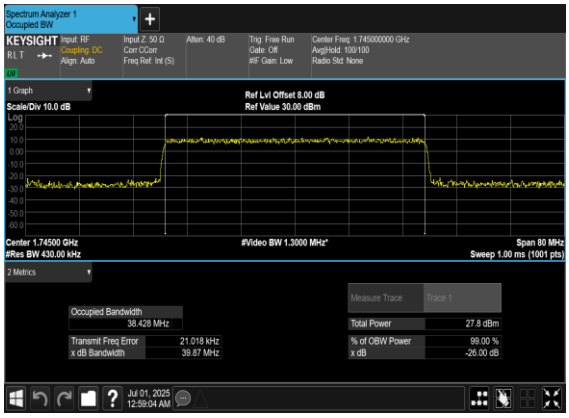
N66(35M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



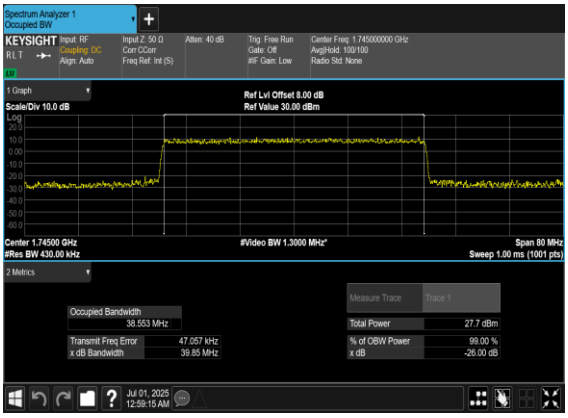
N66(35M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



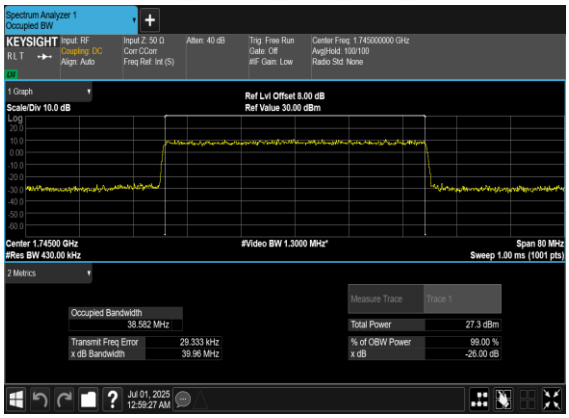
N66(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



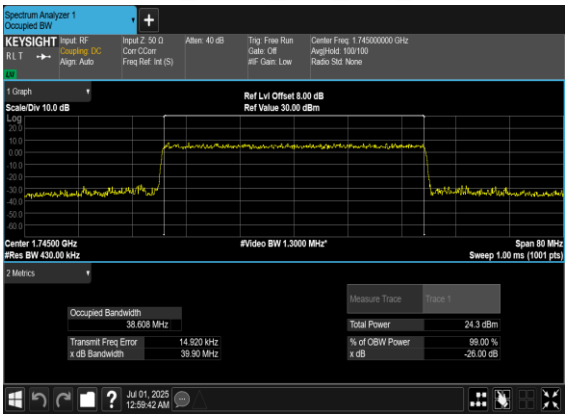
N66(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



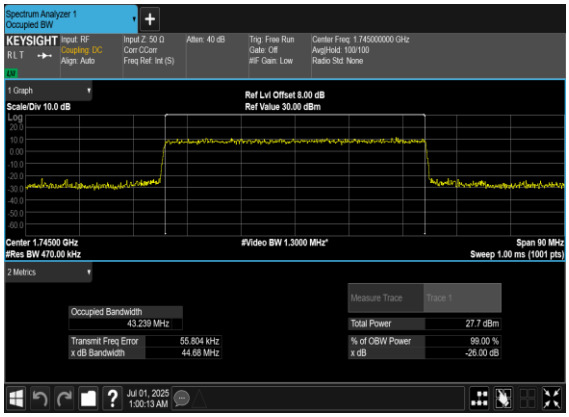
N66(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



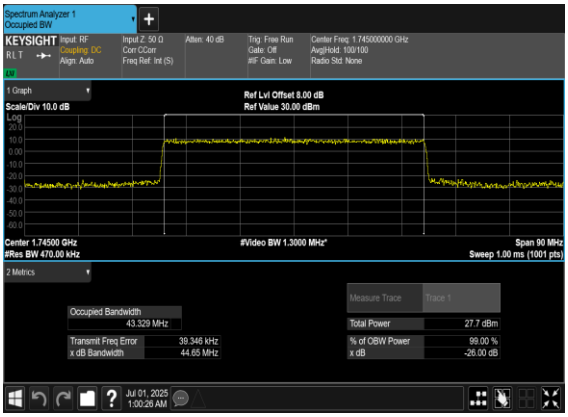
N66(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



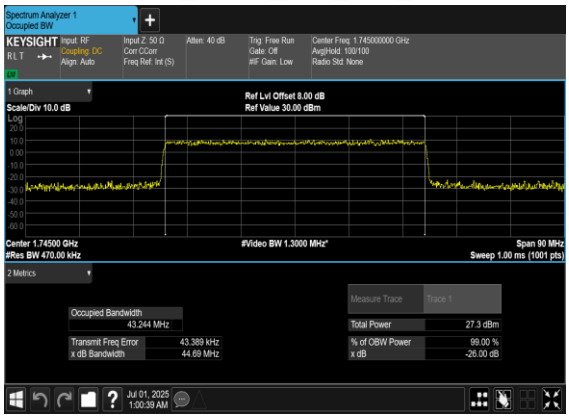
N66(45M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



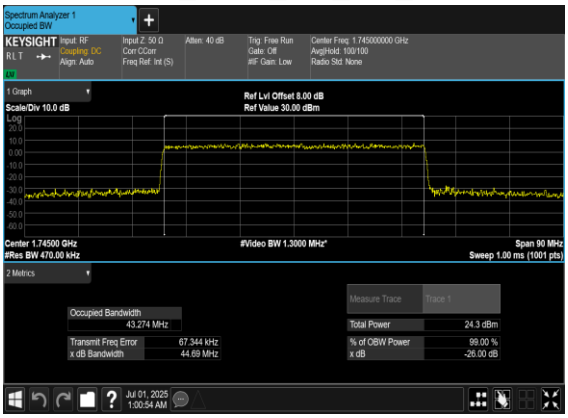
N66(45M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N66(45M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N66(45M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

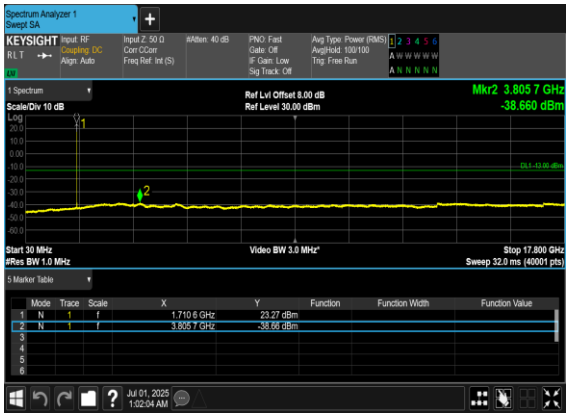


Conducted Spurious Emissions

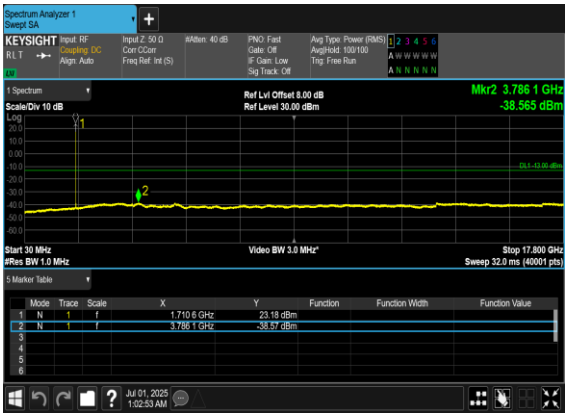
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	5	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	5	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	5	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	5	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	25	344500	1722.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	25	344500	1722.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	25	344500	1722.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	25	344500	1722.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	25	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	25	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	25	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	25	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

66	15	25	353500	1767.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	25	353500	1767.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	25	353500	1767.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	25	353500	1767.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	45	346500	1732.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	45	346500	1732.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	45	346500	1732.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	45	346500	1732.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	45	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	45	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	45	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	45	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	45	351500	1757.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	45	351500	1757.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	45	351500	1757.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	45	351500	1757.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

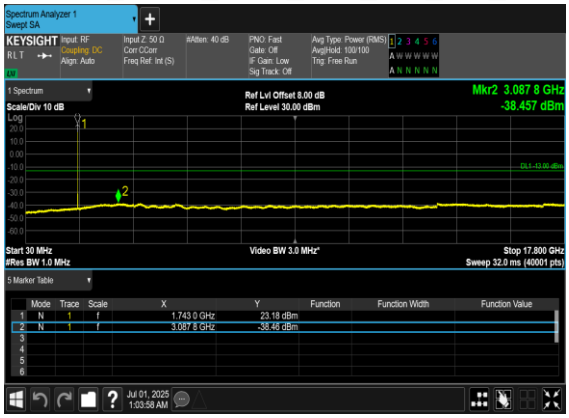
N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



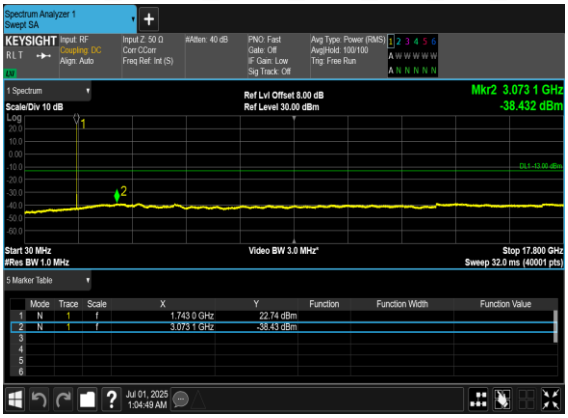
N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



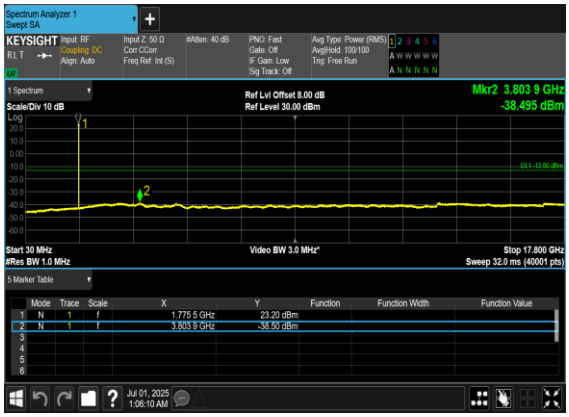
N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



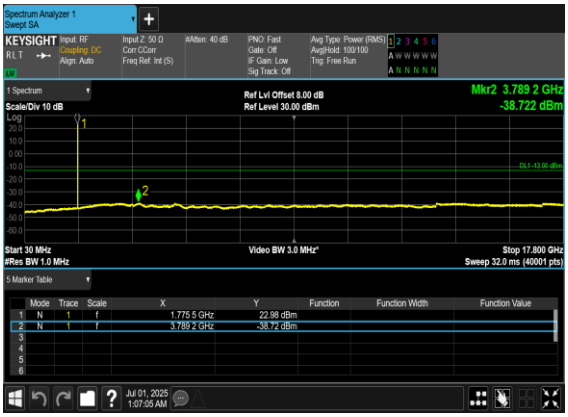
N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



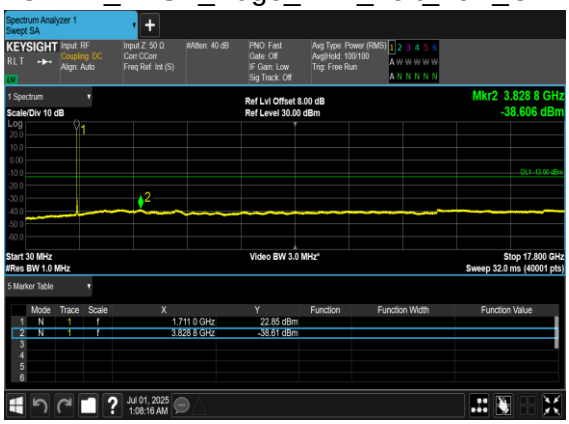
N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



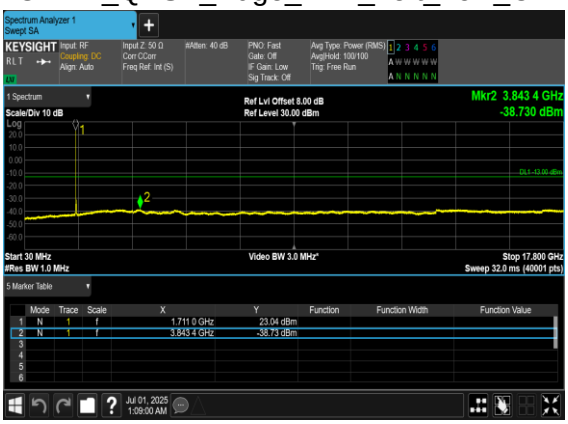
N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



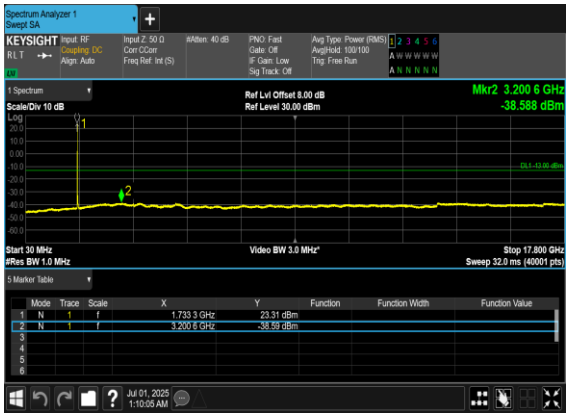
N66(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



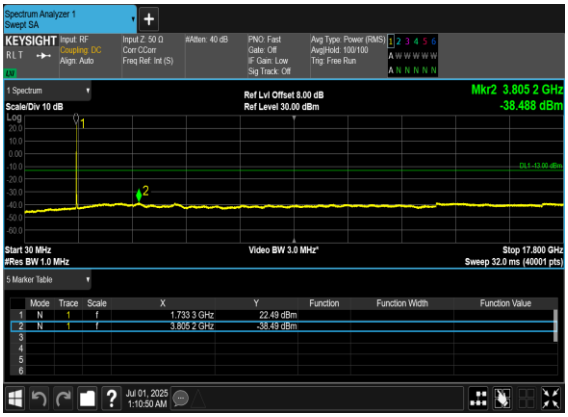
N66(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



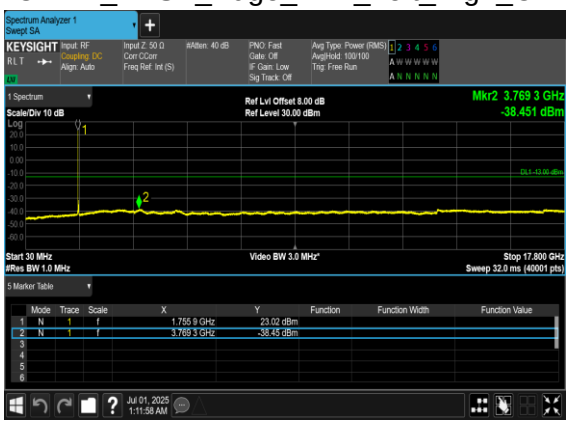
N66(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



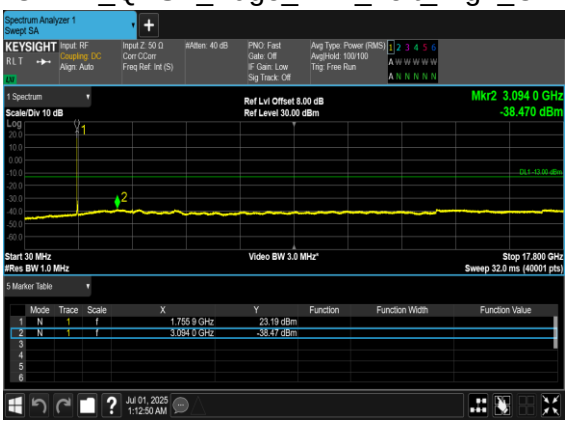
N66(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



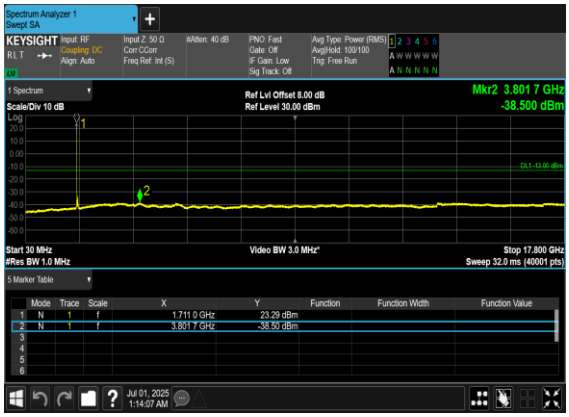
N66(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



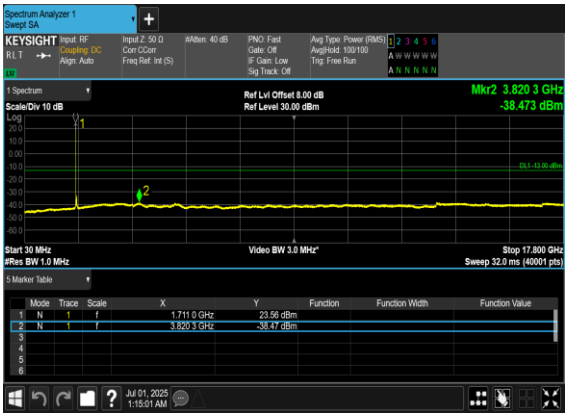
N66(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



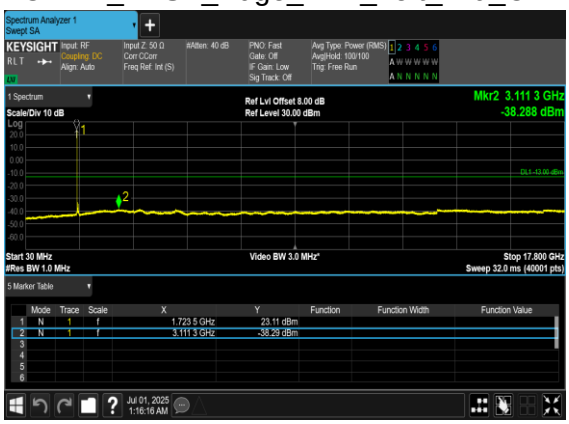
N66(45M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



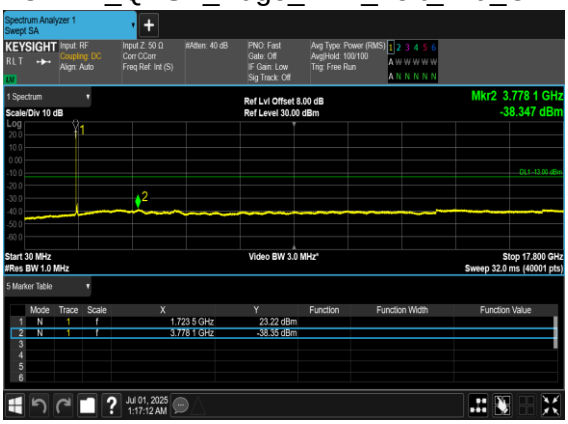
N66(45M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



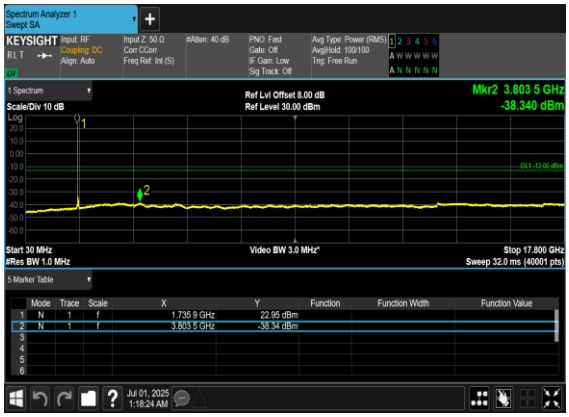
N66(45M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



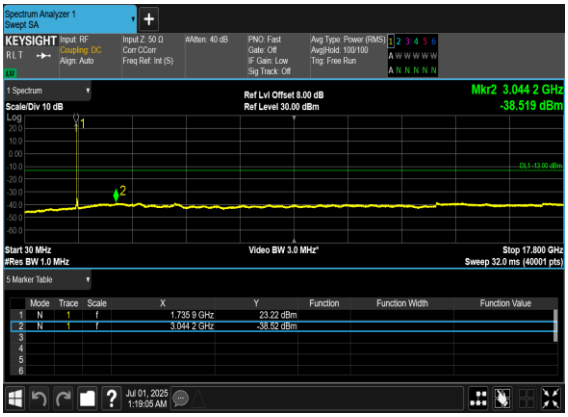
N66(45M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N66(45M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



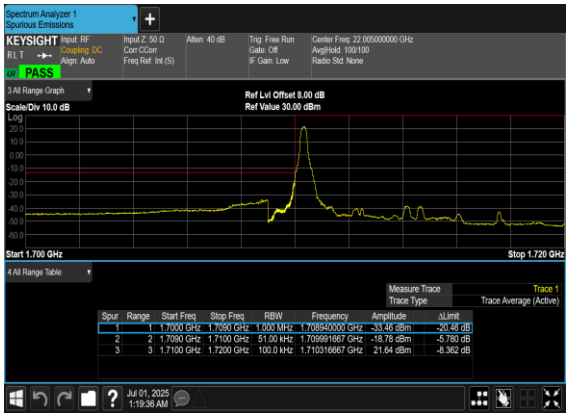
N66(45M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



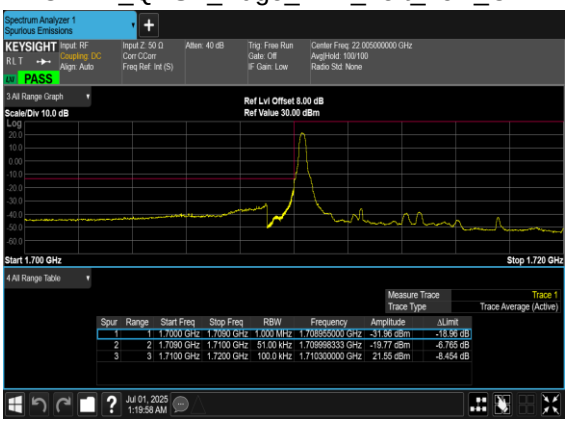
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	1@24	see graph	**PASS**
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@24	see graph	**PASS**
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
66	15	25	344500	1722.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	25	344500	1722.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	25	344500	1722.5	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
66	15	25	344500	1722.5	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
66	15	25	353500	1767.5	DFT-s-OFDM BPSK	1@132	see graph	**PASS**
66	15	25	353500	1767.5	DFT-s-OFDM QPSK	1@132	see graph	**PASS**
66	15	25	353500	1767.5	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
66	15	25	353500	1767.5	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
66	15	45	346500	1732.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	45	346500	1732.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	45	346500	1732.5	DFT-s-OFDM BPSK	240@0	see graph	**PASS**
66	15	45	346500	1732.5	DFT-s-OFDM QPSK	240@0	see graph	**PASS**
66	15	45	351500	1757.5	DFT-s-OFDM BPSK	1@241	see graph	**PASS**
66	15	45	351500	1757.5	DFT-s-OFDM QPSK	1@241	see graph	**PASS**
66	15	45	351500	1757.5	DFT-s-OFDM BPSK	240@0	see graph	**PASS**
66	15	45	351500	1757.5	DFT-s-OFDM QPSK	240@0	see graph	**PASS**

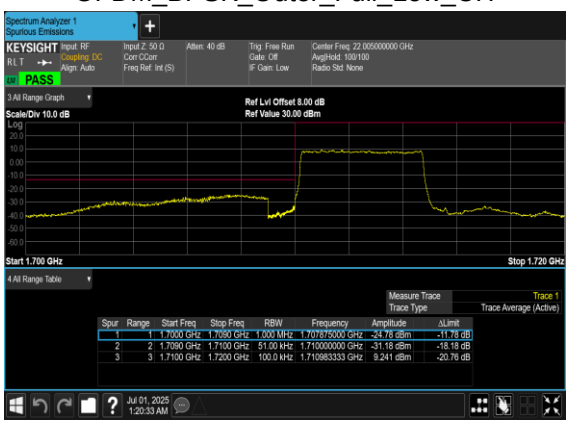
N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



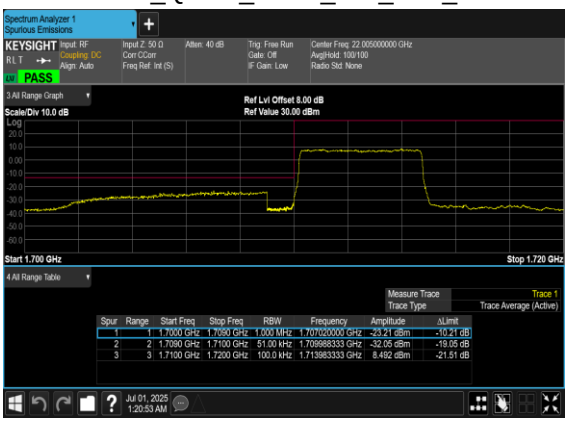
N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



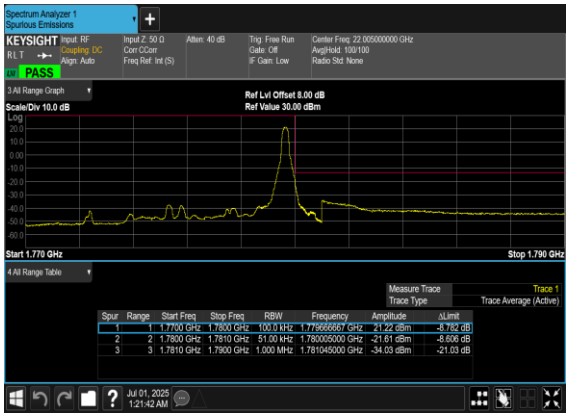
N66(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



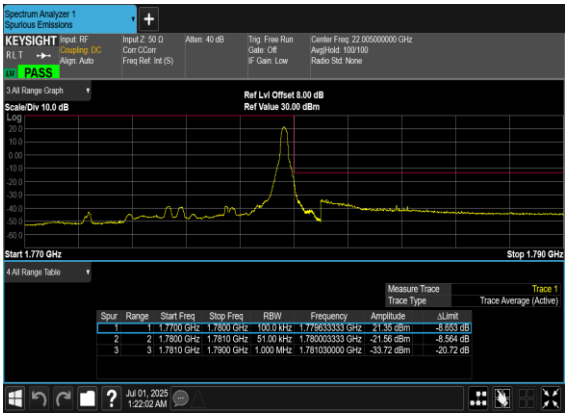
N66(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



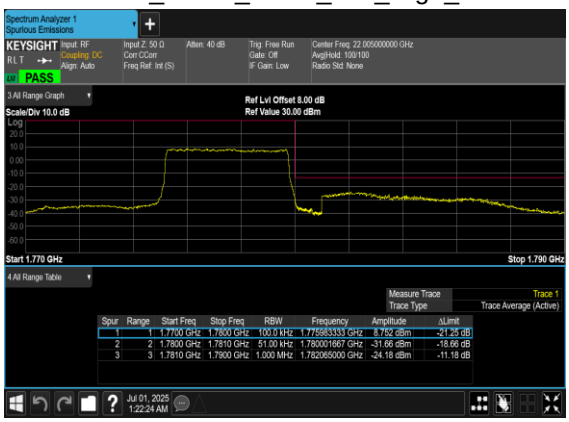
N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



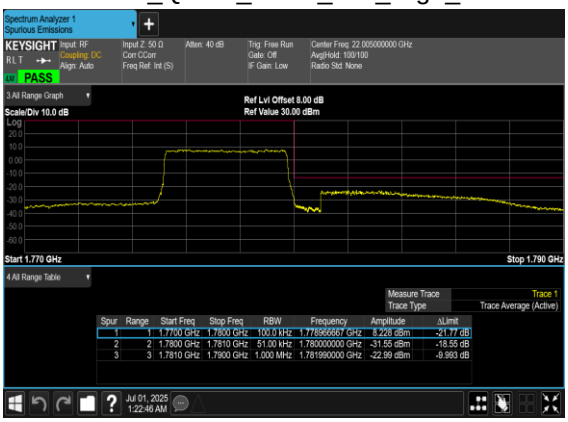
N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



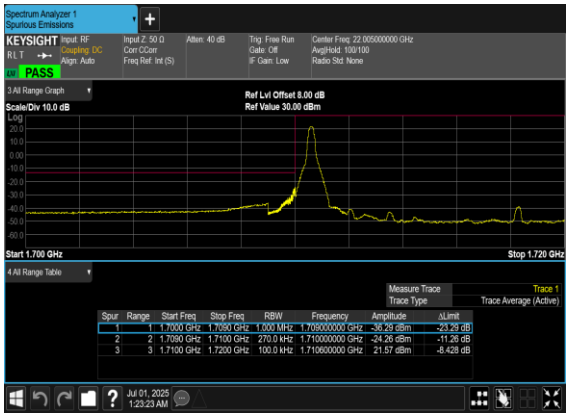
N66(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N66(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N66(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



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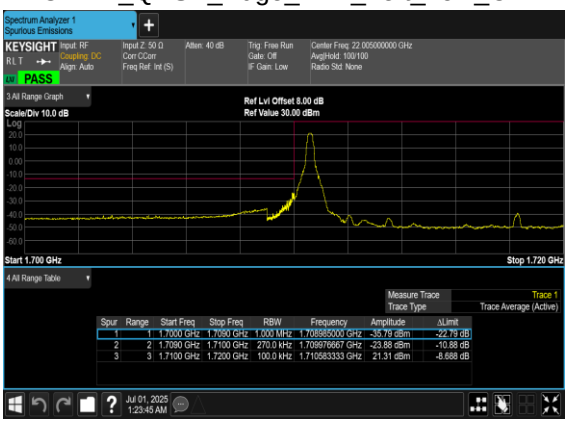
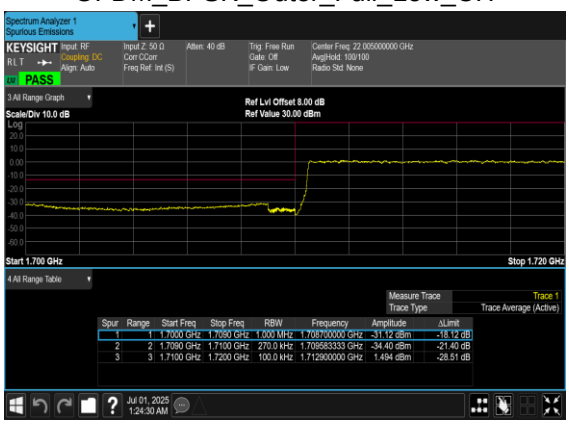
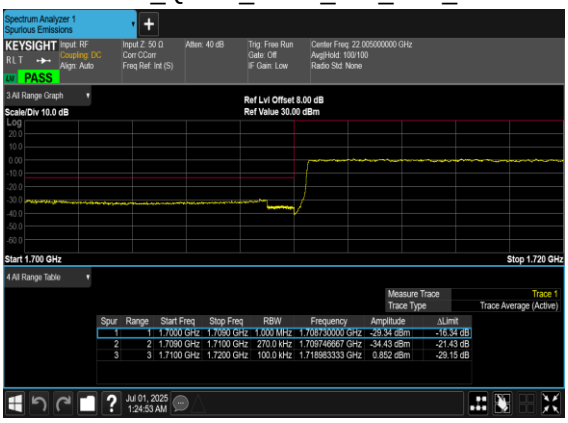


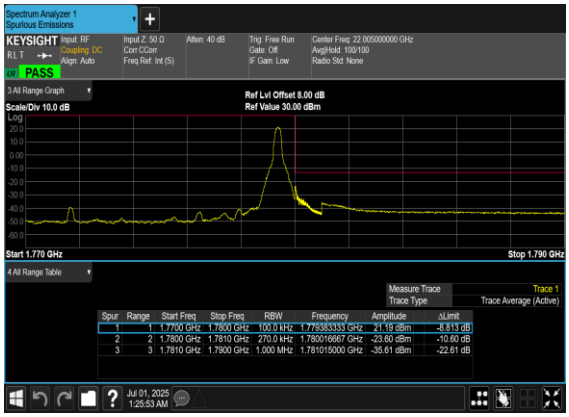
N66(25M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



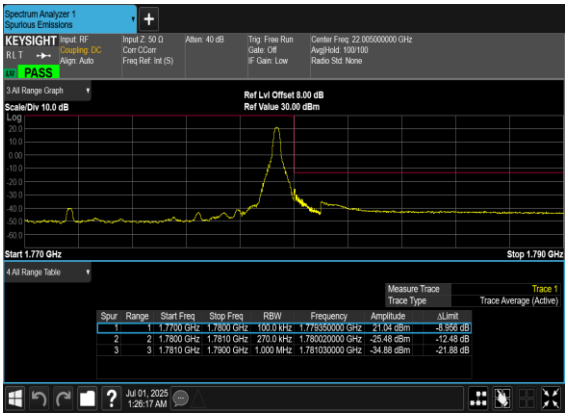
N66(25M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N66(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

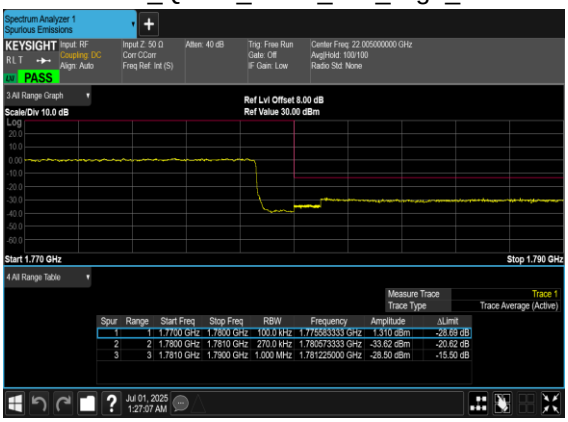


N66(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

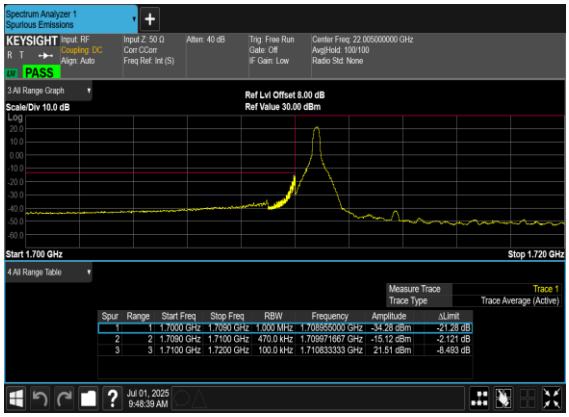


N66(25M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

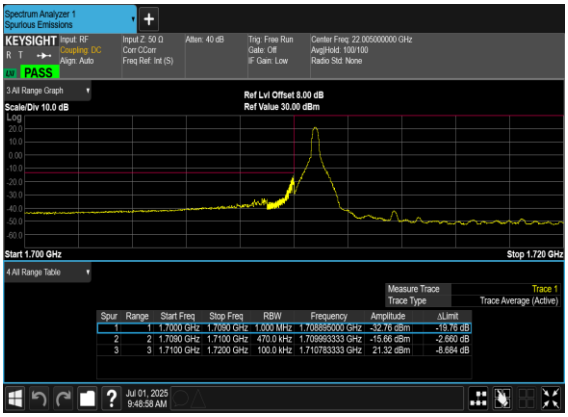
N66(25M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



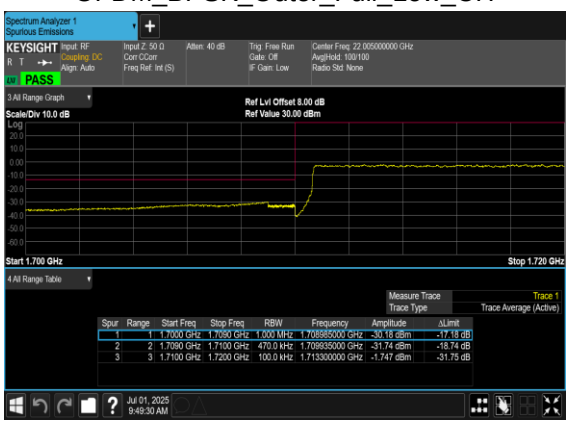
N66(45M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



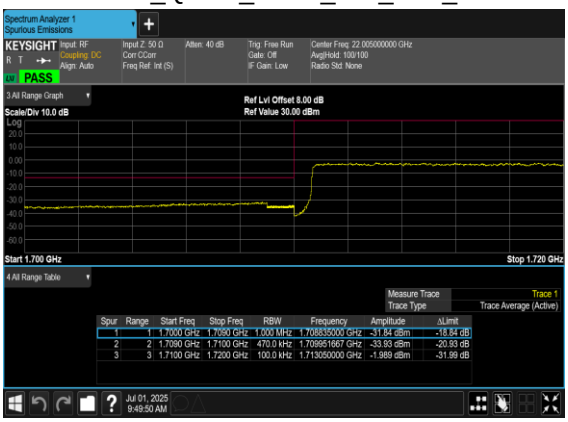
N66(45M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



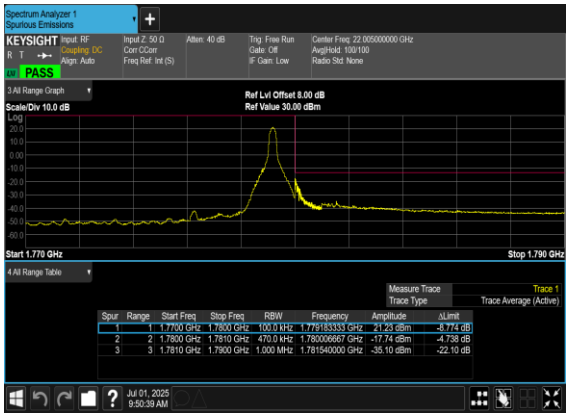
N66(45M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



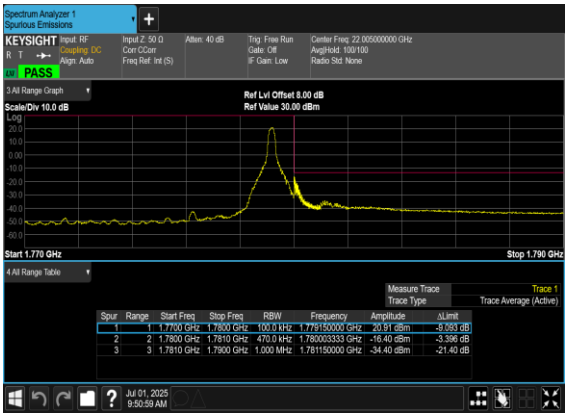
N66(45M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



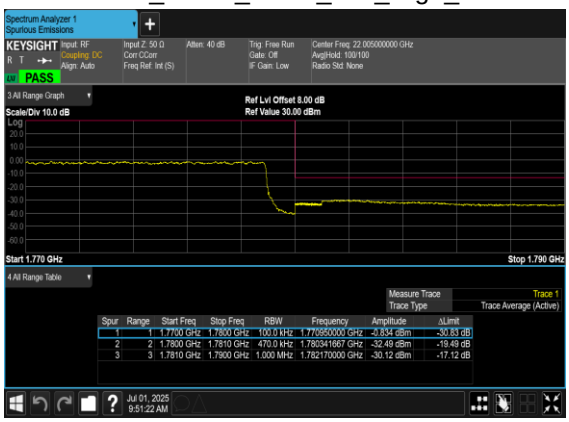
N66(45M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



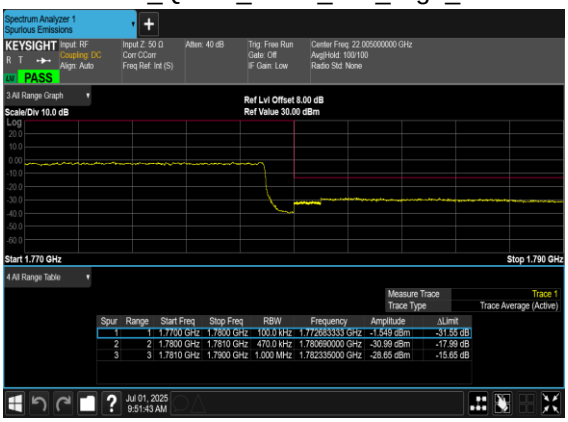
N66(45M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



N66(45M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N66(45M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jia Kuang	Temperature :	22~25℃
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

n2 SA / NR 20MHz / QPSK(ANT1)									
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)
Middle	3722	-57.03	-13	-44.03	-79.41	-63.78	5.85	12.60	H
	5583	-51.73	-13	-38.73	-75.93	-57.53	7.30	13.10	H
	7444	-53.85	-13	-40.85	-80.64	-57.00	8.35	11.50	H
	3722	-54.10	-13	-41.10	-79.33	-60.85	5.85	12.60	V
	5583	-53.03	-13	-40.03	-77.93	-58.83	7.30	13.10	V
	7444	-54.16	-13	-41.16	-80.93	-57.31	8.35	11.50	V

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

n5 SA / NR 20MHz / QPSK(ANT0)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1654	-64.87	-13	-51.87	-76.40	-68.12	4.00	9.40	H
	2481	-55.64	-13	-42.64	-74.37	-59.21	4.88	10.60	H
	3308	-59.24	-13	-46.24	-80.03	-64.17	5.52	12.60	H
	1654	-64.60	-13	-51.60	-76.77	-67.85	4.00	9.40	V
	2481	-54.85	-13	-41.85	-73.90	-58.42	4.88	10.60	V
	3308	-58.80	-13	-45.80	-80.29	-63.73	5.52	12.60	V

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

EN-DC_7A_n5A / LTE 10MHz + NR 20MHz / QPSK (ANT1+0)									
Channel	Frequency (MHz)	ERP/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 n5 Middle	1654	-64.65	-13	-51.65	-76.18	-67.90	4.00	9.40	H
	2481	-59.02	-13	-46.02	-77.75	-62.59	4.88	10.60	H
	3308	-59.07	-13	-46.07	-79.86	-64.00	5.52	12.60	H
	1654	-64.12	-13	-51.12	-76.29	-67.37	4.00	9.40	V
	2481	-59.41	-13	-46.41	-78.46	-62.98	4.88	10.60	V
	3308	-58.28	-13	-45.28	-79.77	-63.21	5.52	12.60	V
LTE Band7 Middle	5061.00	-57.77	-25	-32.77	-80.89	-63.33	7.14	12.70	H
	7591.50	-52.22	-25	-27.22	-78.47	-55.52	8.30	11.60	H
	10122.00	-52.27	-25	-27.27	-82.65	-53.79	10.48	12.00	H
	5061.00	-56.42	-25	-31.42	-80.75	-61.98	7.14	12.70	V
	7591.50	-52.95	-25	-27.95	-79.2	-56.25	8.30	11.60	V
	10122.00	-51.01	-25	-26.01	-82.44	-52.53	10.48	12.00	V

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

n26 SA / NR 20MHz / QPSK(ANT0)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1654	-64.28	-13	-51.28	-75.81	-67.53	4.00	9.40	H
	2481	-58.15	-13	-45.15	-76.88	-61.72	4.88	10.60	H
	3308	-58.21	-13	-45.21	-79.00	-63.14	5.52	12.60	H
	1654	-64.03	-13	-51.03	-76.20	-67.28	4.00	9.40	V
	2481	-58.87	-13	-45.87	-77.92	-62.44	4.88	10.60	V
	3308	-57.87	-13	-44.87	-79.36	-62.80	5.52	12.60	V

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

n66 SA / NR 40MHz / QPSK(ANT1)									
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)
Middle	3448	-58.35	-13	-45.35	-79.41	-65.20	5.65	12.50	H
	5172	-48.05	-13	-35.05	-71.88	-53.72	7.13	12.80	H
	6896	-55.27	-13	-42.27	-80.83	-58.67	8.40	11.80	H
	3448	-57.43	-13	-44.43	-79.43	-64.28	5.65	12.50	V
	5172	-54.13	-13	-41.13	-78.46	-59.80	7.13	12.80	V
	6896	-54.16	-13	-41.16	-81	-57.56	8.40	11.80	V

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

EN-DC_7A_n66A / LTE 10MHz + NR 20MHz / QPSK (ANT0+1)									
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 n66 Middle	3448	-59.65	-13	-46.65	-80.71	-66.50	5.65	12.50	H
	5172	-56.66	-13	-43.66	-80.49	-62.33	7.13	12.80	H
	6896	-55.41	-13	-42.41	-80.97	-58.81	8.40	11.80	H
	3448	-58.75	-13	-45.75	-80.75	-65.60	5.65	12.50	V
	5172	-56.04	-13	-43.04	-80.37	-61.71	7.13	12.80	V
	6896	-54.17	-13	-41.17	-81.01	-57.57	8.40	11.80	V
LTE Band7 Middle	5061.18	-57.46	-25	-32.46	-80.58	-63.02	7.14	12.70	H
	7591.77	-54.77	-25	-29.77	-81.02	-58.07	8.30	11.60	H
	10122.36	-51.86	-25	-26.86	-82.24	-53.38	10.48	12.00	H
	5061.18	-56.27	-25	-31.27	-80.6	-61.83	7.14	12.70	V
	7591.77	-55.10	-25	-30.10	-81.35	-58.40	8.30	11.60	V
	10122.36	-51.21	-25	-26.21	-82.64	-52.73	10.48	12.00	V

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

EN-DC_5A_n66A / LTE 20MHz + NR 20MHz / QPSK (ANT3+1)									
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 n66 Lowest	3448	-58.84	-13	-45.84	-79.90	-65.69	5.65	12.50	H
	5172	-43.50	-13	-30.50	-67.33	-49.17	7.13	12.80	H
	6896	-55.47	-13	-42.47	-81.03	-58.87	8.40	11.80	H
	3448	-58.61	-13	-45.61	-80.61	-65.46	5.65	12.50	V
	5172	-38.75	-13	-25.75	-63.08	-44.42	7.13	12.80	V
	6896	-54.65	-13	-41.65	-81.49	-58.05	8.40	11.80	V
LTE Band5 Highest	1664.18	-63.83	-13	-50.83	-75.44	-67.08	4.00	9.40	H
	2496.27	-59.38	-13	-46.38	-78.25	-62.95	4.88	10.60	H
	3328.36	-58.45	-13	-45.45	-79.33	-63.38	5.52	12.60	H
	1664.18	-63.84	-13	-50.84	-76.12	-67.09	4.00	9.40	V
	2496.27	-58.92	-13	-45.92	-78.05	-62.49	4.88	10.60	V
	3328.36	-58.09	-13	-45.09	-79.47	-63.02	5.52	12.60	V

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