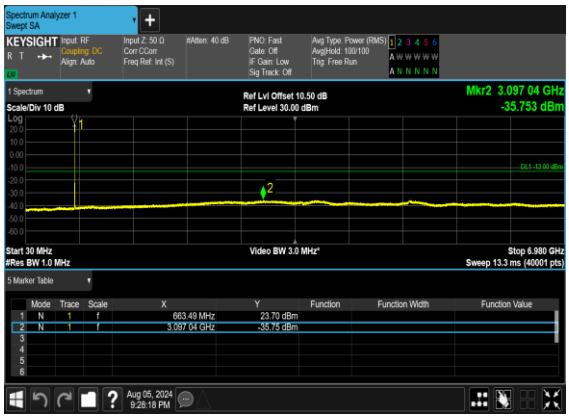
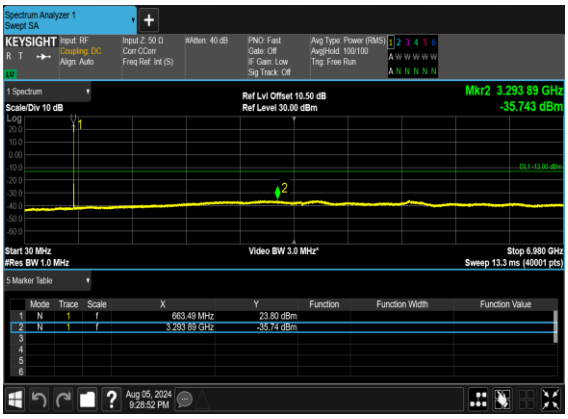
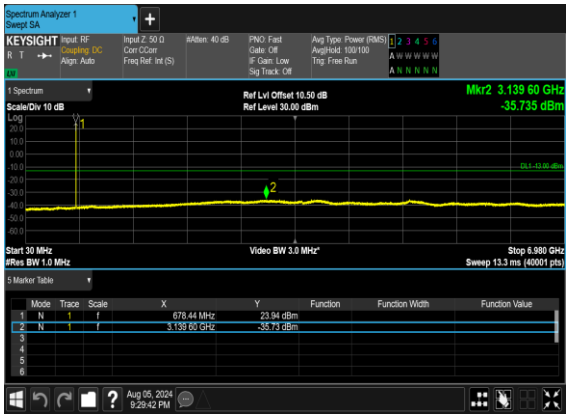
N71(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



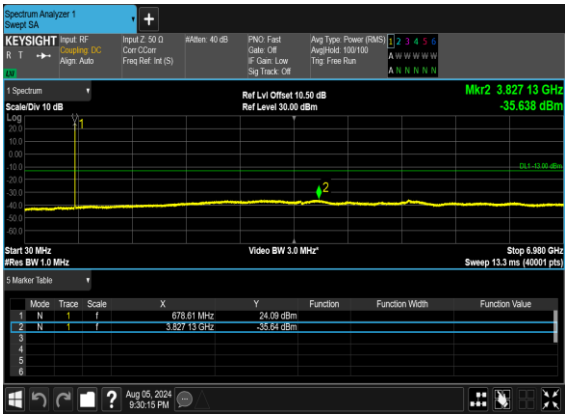
N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



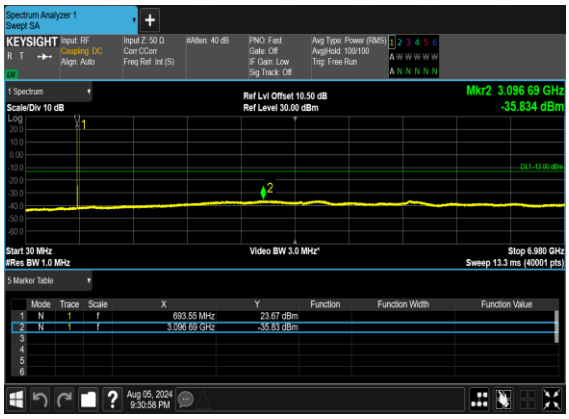
N71(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



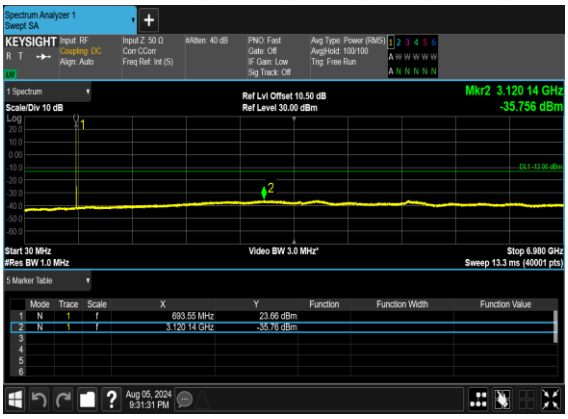
N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



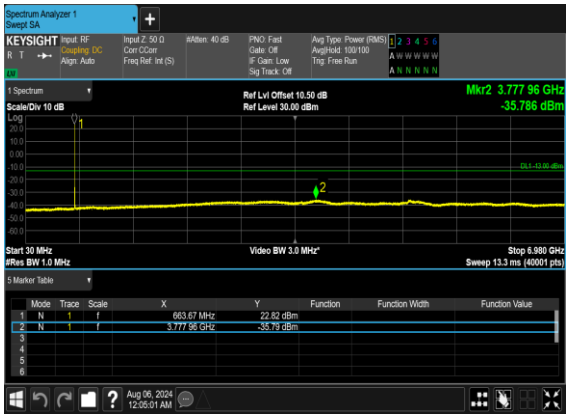
N71(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



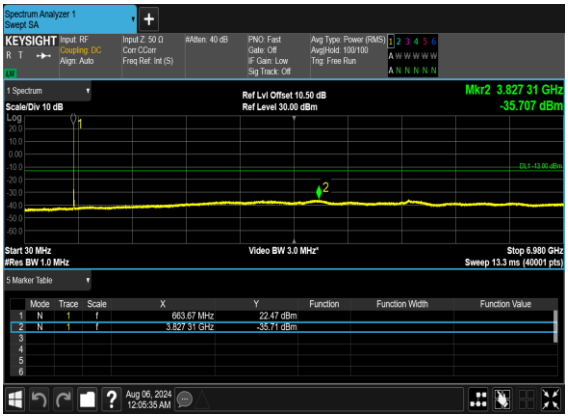
N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



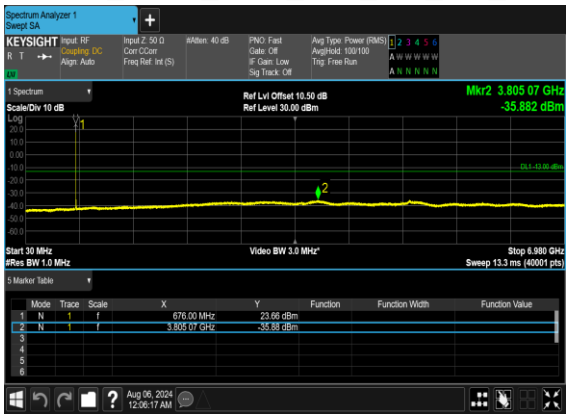
N71(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



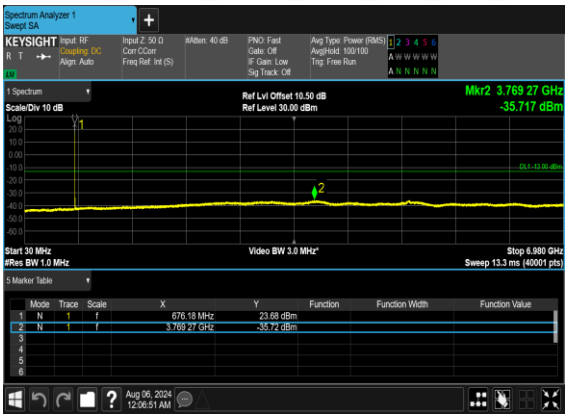
N71(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



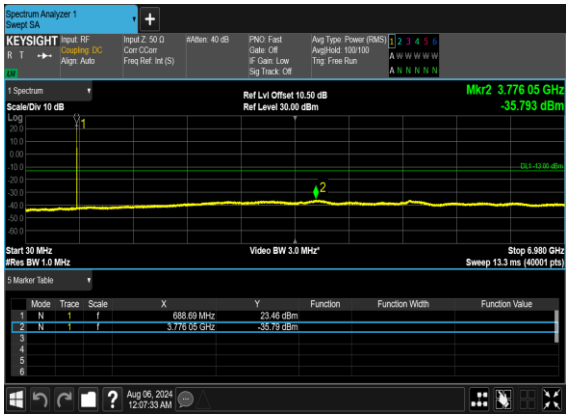
N71(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



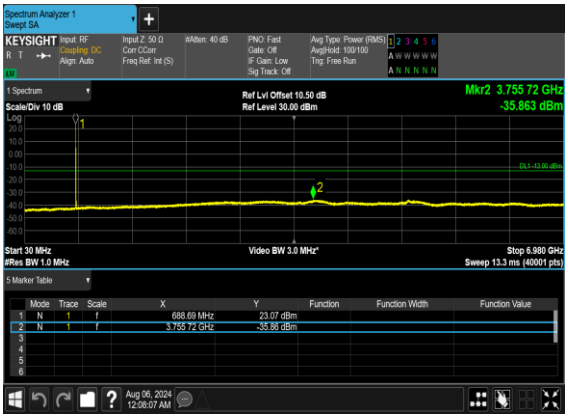
N71(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



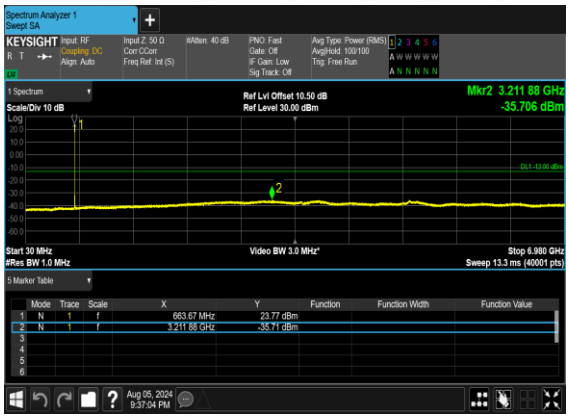
N71(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



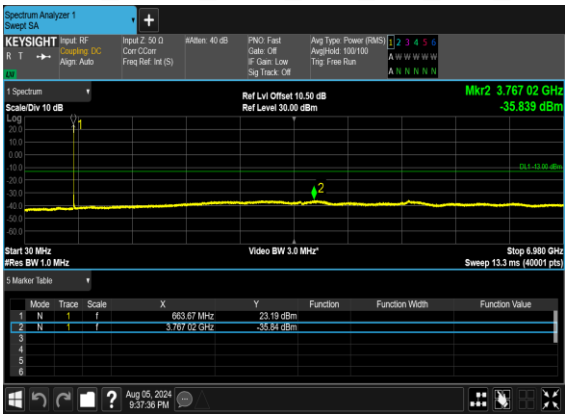
N71(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



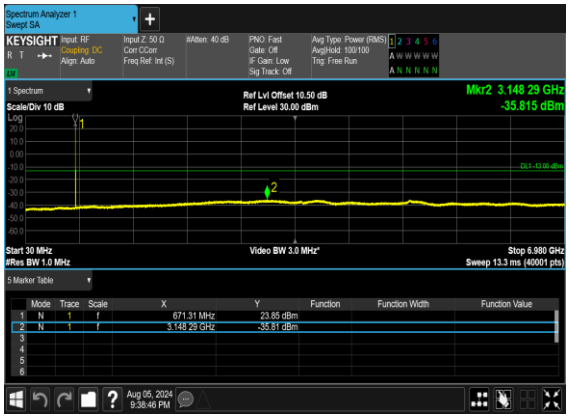
N71(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



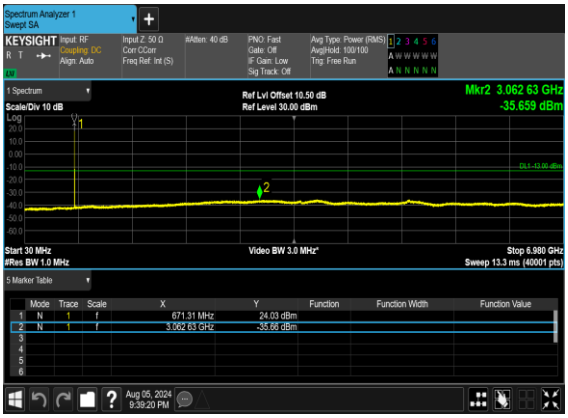
N71(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



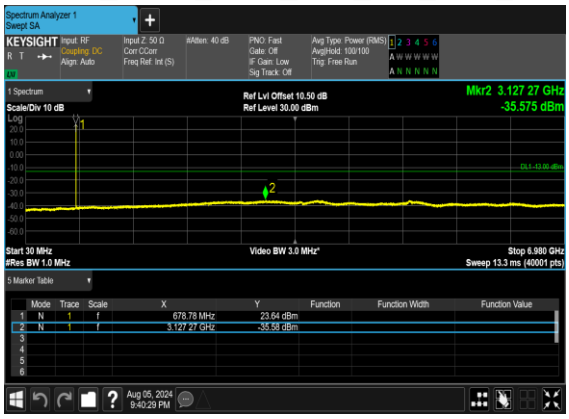
N71(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



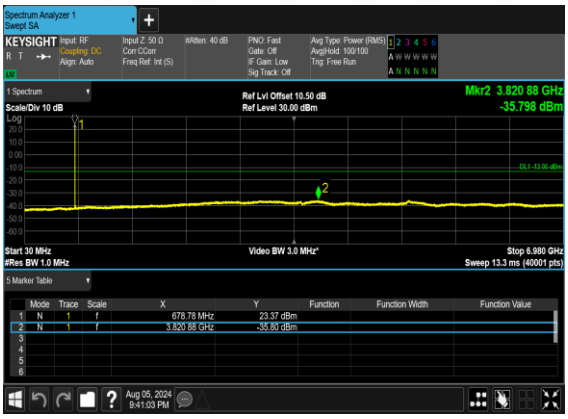
N71(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N71(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N71(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

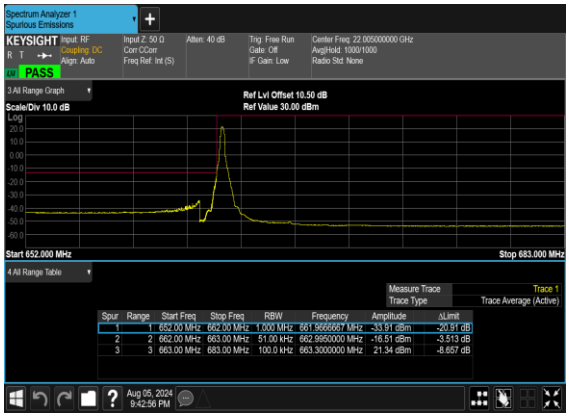


Conducted Band Edge

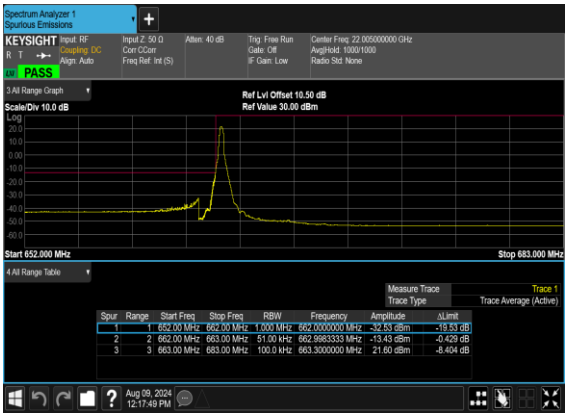
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
71	15	5	133100	665.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
71	15	5	133100	665.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
71	15	5	133100	665.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
71	15	5	133100	665.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
71	15	5	139100	695.5	DFT-s-OFDM BPSK	1@24	see graph	**PASS**
71	15	5	139100	695.5	DFT-s-OFDM QPSK	1@24	see graph	**PASS**
71	15	5	139100	695.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
71	15	5	139100	695.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
71	15	10	133600	668.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
71	15	10	133600	668.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
71	15	10	133600	668.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
71	15	10	133600	668.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
71	15	10	138600	693.0	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
71	15	10	138600	693.0	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
71	15	10	138600	693.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
71	15	10	138600	693.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
71	15	20	134600	673.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
71	15	20	134600	673.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
71	15	20	134600	673.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
71	15	20	134600	673.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**

71	15	20	137600	688.0	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
71	15	20	137600	688.0	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
71	15	20	137600	688.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
71	15	20	137600	688.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**

N71(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

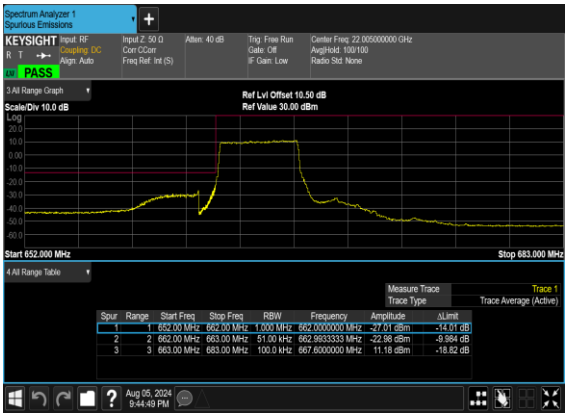


N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

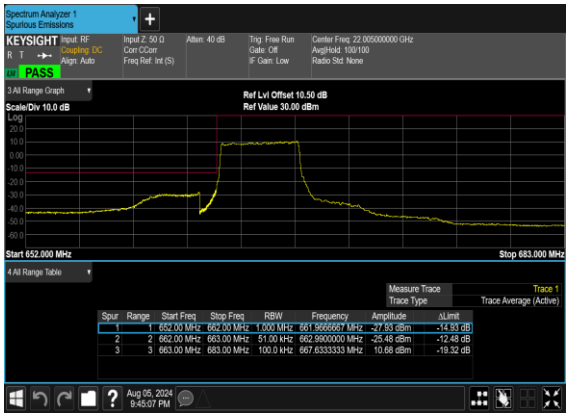


N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PASS

N71(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

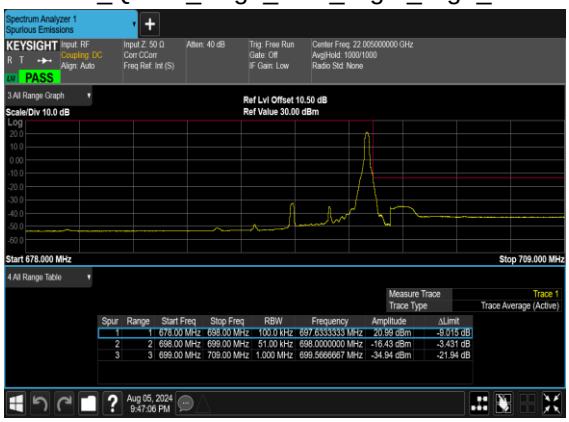


N71(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N71(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

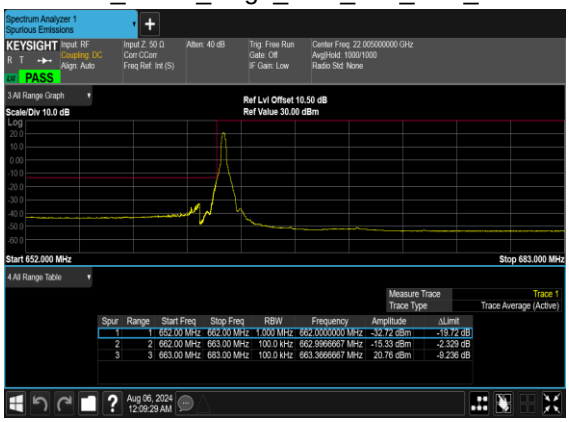
N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



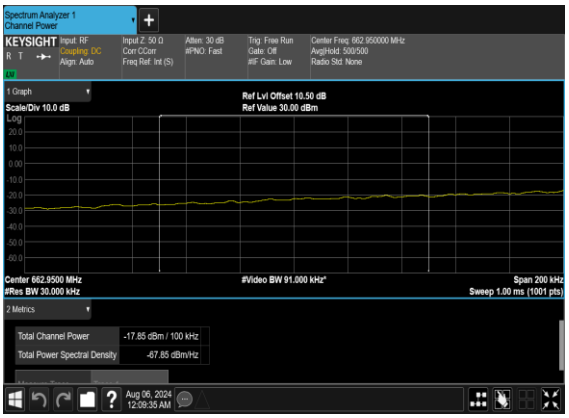
N71(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N71(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

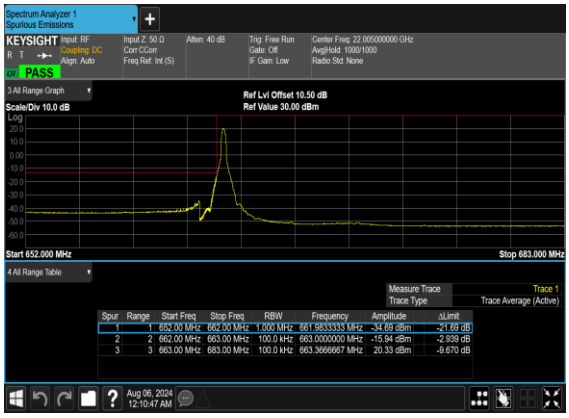
N71(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



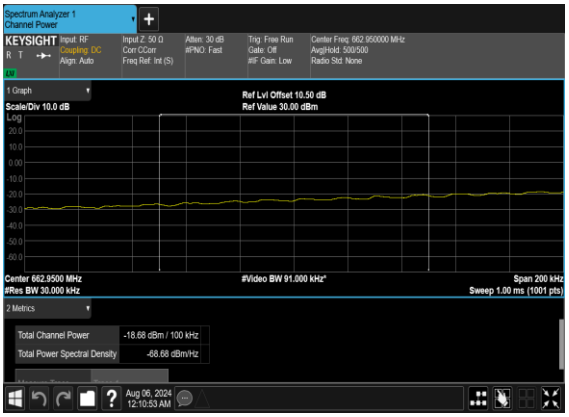
N71(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PASS



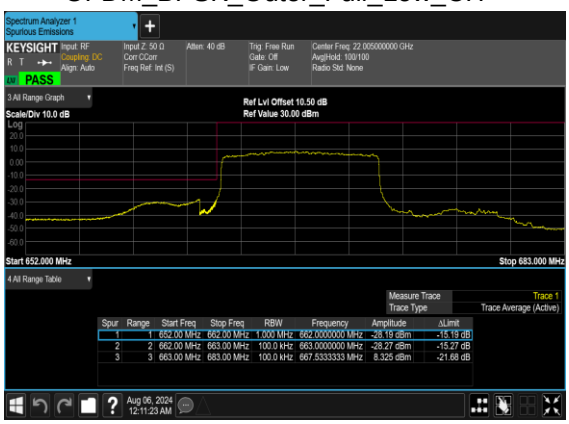
N71(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N71(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PASS

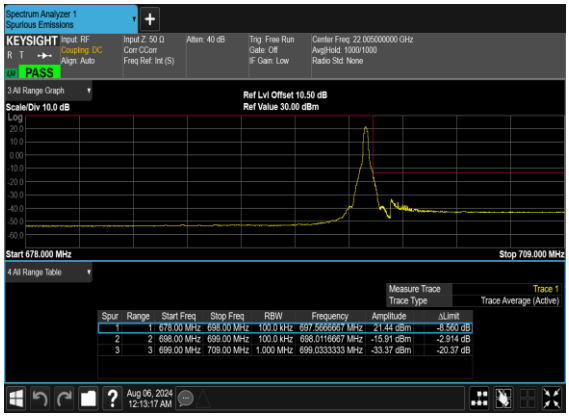


N71(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

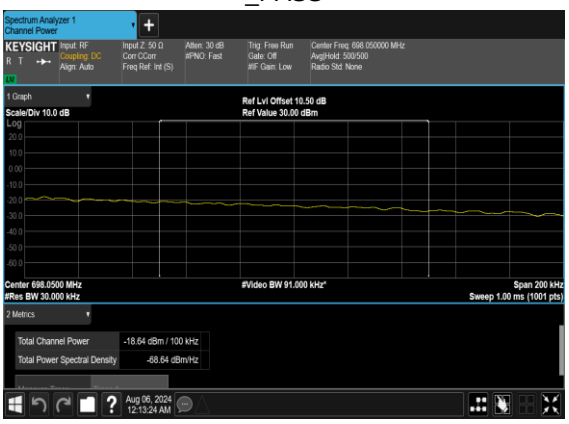


N71(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

N71(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N71(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_CHP_PASS

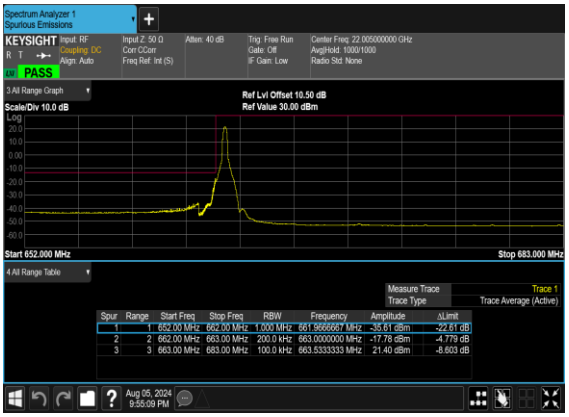


N71(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

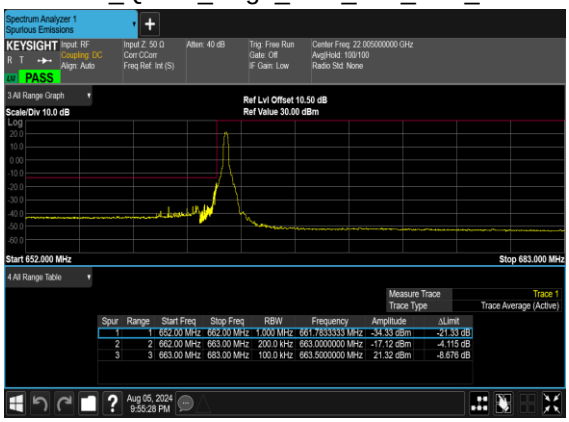
N71(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N71(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

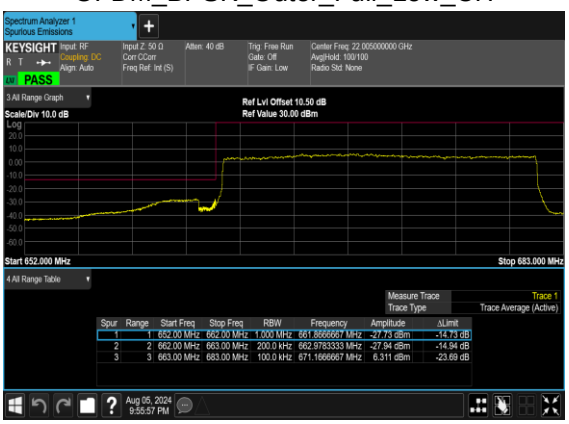
N71(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



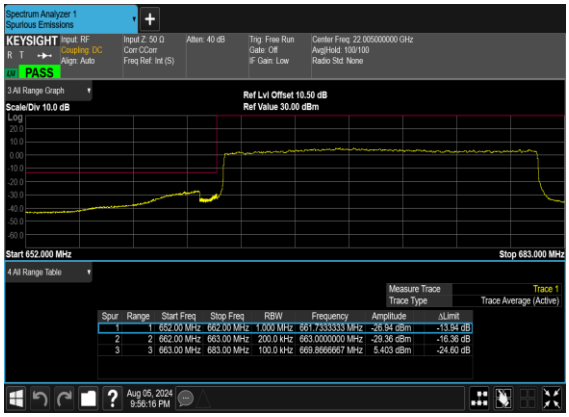
N71(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



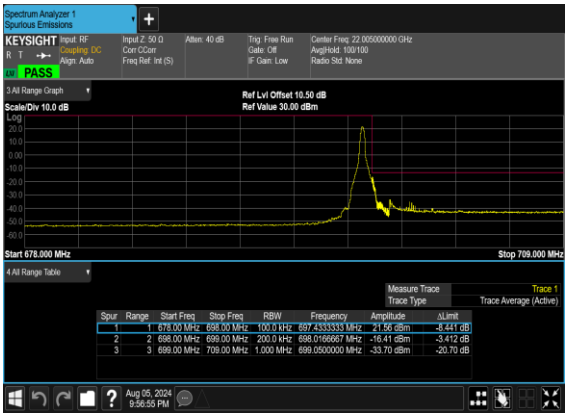
N71(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



N71(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N71(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N71(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

N71(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N71(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Shunping You	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.

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	3452	-63.29	-13	-50.29	-75.88	-70.14	5.65	12.50	H
	5178	-60.83	-13	-47.83	-78.37	-66.50	7.13	12.80	H
	6904	-57.20	-13	-44.20	-77.93	-60.60	8.40	11.80	H
	3452	-62.80	-13	-49.80	-75.94	-69.65	5.65	12.50	V
	5178	-61.12	-13	-48.12	-78.6	-66.79	7.13	12.80	V
	6904	-57.14	-13	-44.14	-77.8	-60.54	8.40	11.80	V

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

EN-DC_48A_n66A / LTE 10MHz + NR 40MHz / QPSK (ANT2+8)									
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	3452.5	-64.21	-13	-45.25	-76.81	-65.10	5.65	12.50	H
	5178.74	-61.79	-13	-42.82	-79.33	-61.49	7.13	12.80	H
	6905	-62.41	-13	-42.19	-51.60	-58.59	8.40	11.80	H
	3452.5	-63.85	-13	-43.73	-77	-63.58	5.65	12.50	V
	5178.74	-61.95	-13	-43.80	-79.44	-62.47	7.13	12.80	V
	6905	-62.40	-13	-41.71	-51.53	-58.11	8.40	11.80	V
LTE Band48 Middle	7241.00	-59.73	-40	-19.73	-50.66	-63.03	8.30	11.60	H
	10861.50	-55.85	-40	-15.85	-53.81	-57.37	10.48	12.00	H
	14482.00	-52.18	-40	-12.18	-54.51	-53.88	11.80	13.50	H
	7241.00	-57.94	-40	-17.94	-48.91	-61.24	8.30	11.60	V
	10861.50	-56.08	-40	-16.08	-53.79	-57.60	10.48	12.00	V
	14482.00	-52.40	-40	-12.40	-54.54	-54.10	11.80	13.50	V

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

n66 TXD SA / NR 40MHz / QPSK(ANT1+8)									
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	3452	-62.64	-13	-49.64	-75.23	-69.49	5.65	12.50	H
	5178	-60.18	-13	-47.18	-77.72	-65.85	7.13	12.80	H
	6904	-56.55	-13	-43.55	-77.28	-59.95	8.40	11.80	H
	3452	-62.15	-13	-49.15	-75.29	-69.00	5.65	12.50	V
	5178	-60.47	-13	-47.47	-77.95	-66.14	7.13	12.80	V
	6904	-56.49	-13	-43.49	-77.15	-59.89	8.40	11.80	V

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

n66 UL MIMO SA / NR 40MHz / QPSK(ANT1+8)									
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	3452	-64.26	-13	-51.26	-76.85	-71.11	5.65	12.50	H
	5178	-61.36	-13	-48.36	-78.90	-67.03	7.13	12.80	H
	6904	-57.92	-13	-44.92	-78.65	-61.32	8.40	11.80	H
	3452	-63.62	-13	-50.62	-76.76	-70.47	5.65	12.50	V
	5178	-61.44	-13	-48.44	-78.92	-67.11	7.13	12.80	V
	6904	-57.66	-13	-44.66	-78.32	-61.06	8.40	11.80	V

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

n70 SA / NR 15MHz / 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	3391.08	-64.12	-13	-51.12	-76.13	-70.97	5.65	12.50	H
	5086.62	-61.12	-13	-48.12	-78.57	-66.79	7.13	12.80	H
	6782.16	-57.70	-13	-44.70	-77.89	-61.10	8.40	11.80	H
	3391.08	-63.44	-13	-50.44	-75.99	-70.29	5.65	12.50	V
	5086.62	-61.21	-13	-48.21	-78.59	-66.88	7.13	12.80	V
	6782.16	-58.16	-13	-45.16	-77.99	-61.56	8.40	11.80	V

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

n70 TXD SA / NR 15MHz / QPSK(ANT1+8)									
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	3391.08	-64.38	-13	-51.38	-76.39	-71.23	5.65	12.50	H
	5086.62	-61.38	-13	-48.38	-78.83	-67.05	7.13	12.80	H
	6782.16	-57.96	-13	-44.96	-78.15	-61.36	8.40	11.80	H
	3391.08	-64.12	-13	-51.12	-76.67	-70.97	5.65	12.50	V
	5086.62	-61.89	-13	-48.89	-79.27	-67.56	7.13	12.80	V
	6782.16	-58.85	-13	-45.85	-78.68	-62.25	8.40	11.80	V

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

n70 UL MIMO SA / NR 40MHz / QPSK(ANT1+8)									
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	3391.08	-64.10	-13	-51.10	-76.11	-70.95	5.65	12.50	H
	5086.62	-61.24	-13	-48.24	-78.69	-66.91	7.13	12.80	H
	6782.16	-57.84	-13	-44.84	-78.03	-61.24	8.40	11.80	H
	3391.08	-63.62	-13	-50.62	-76.17	-70.47	5.65	12.50	V
	5086.62	-60.63	-13	-47.63	-78.01	-66.30	7.13	12.80	V
	6782.16	-58.38	-13	-45.38	-78.21	-61.78	8.40	11.80	V

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

N71 SA / NR 20MHz / QPSK(ANT1)									
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	1342	-66.13	-13	-53.13	-73.14	-69.38	4.00	9.40	H
	2013	-66.46	-13	-53.46	-74.54	-70.03	4.88	10.60	H
	2684	-64.34	-13	-51.34	-75.38	-69.27	5.52	12.60	H
	1342	-66.01	-13	-53.01	-72.97	-69.26	4.00	9.40	V
	2013	-65.06	-13	-52.06	-73.57	-68.63	4.88	10.60	V
	2684	-64.07	-13	-51.07	-75.42	-69.00	5.52	12.60	V

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

EN-DC_48A_n71A / LTE 10MHz + NR 20MHz / QPSK (ANT2+8)									
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 n71 Middle	1342	-65.52	-13	-52.52	-72.53	-68.77	4.00	9.40	H
	2013	-66.85	-13	-53.85	-74.93	-70.42	4.88	10.60	H
	2684	-65.05	-13	-52.05	-76.09	-69.98	5.52	12.60	H
	1342	-65.33	-13	-52.33	-72.29	-68.58	4.00	9.40	V
	2013	-66.30	-13	-53.30	-74.81	-69.87	4.88	10.60	V
	2684	-64.58	-13	-51.58	-75.93	-69.51	5.52	12.60	V
LTE Band48 Middle	7241.00	-59.48	-40	-19.48	-50.41	-62.78	8.30	11.60	H
	10861.50	-55.38	-40	-15.38	-53.34	-56.90	10.48	12.00	H
	14482.00	-52.01	-40	-12.01	-54.34	-53.71	11.80	13.50	H
	7241.00	-56.20	-40	-16.20	-47.17	-59.50	8.30	11.60	V
	10861.50	-55.21	-40	-15.21	-52.92	-56.73	10.48	12.00	V
	14482.00	-51.97	-40	-11.97	-54.11	-53.67	11.80	13.50	V

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

N71 TXD SA / NR 20MHz / QPSK(ANT1+8)									
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	1332.5	-66.43	-13	-53.43	-73.30	-69.68	4.00	9.40	H
	1997.75	-66.64	-13	-53.64	-74.47	-70.21	4.88	10.60	H
	2665	-65.12	-13	-52.12	-76.00	-70.05	5.52	12.60	H
	1332.5	-65.85	-13	-52.85	-72.65	-69.10	4.00	9.40	V
	1997.75	-65.65	-13	-52.65	-73.91	-69.22	4.88	10.60	V
	2665	-64.29	-13	-51.29	-75.49	-69.22	5.52	12.60	V

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

N71 UL MIMO SA / NR 20MHz / QPSK(ANT1+8)									
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	1342	-65.65	-13	-52.65	-72.66	-68.90	4.00	9.40	H
	2013	-65.69	-13	-52.69	-73.77	-69.26	4.88	10.60	H
	2684	-64.12	-13	-51.12	-75.16	-69.05	5.52	12.60	H
	1342	-65.50	-13	-52.50	-72.46	-68.75	4.00	9.40	V
	2013	-65.62	-13	-52.62	-74.13	-69.19	4.88	10.60	V
	2684	-63.62	-13	-50.62	-74.97	-68.55	5.52	12.60	V