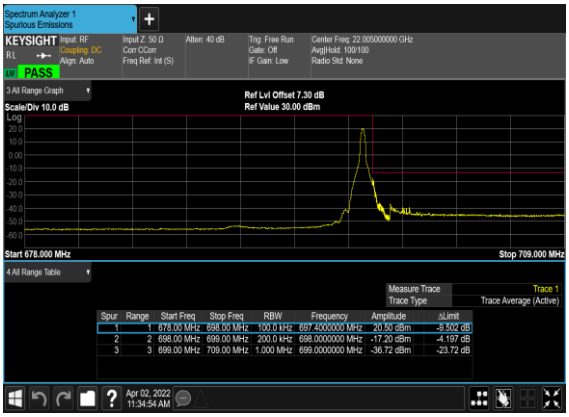
N71(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

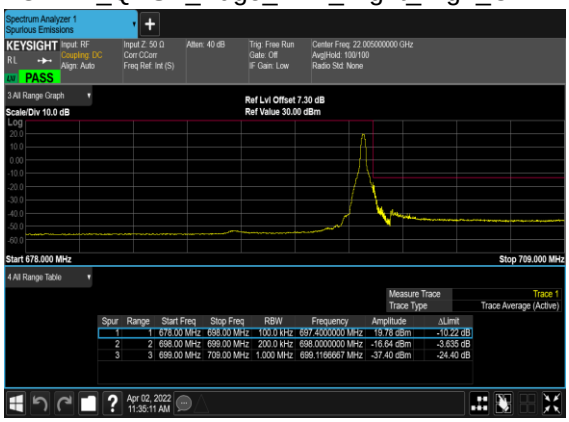
N71(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH_**CHP_PASS**

N71(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

N71(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

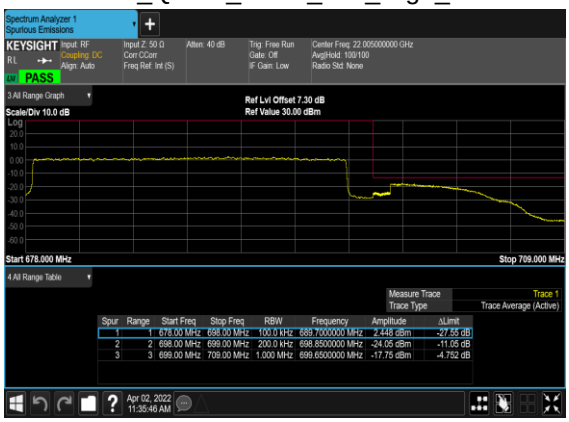


N71(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



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 :	Kuang Jia	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.

SA n7 / 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)
Lowest	5001.84	-60.91	-25	-35.91	-80.46	-66.47	7.12	12.68	H
	7502.76	-55.62	-25	-30.62	-79.33	-58.95	8.26	11.59	H
	10003.68	-52.69	-25	-27.69	-79.65	-54.22	10.45	11.98	H
	5001.84	-60.82	-25	-35.82	-80.36	-66.38	7.12	12.68	V
	7502.76	-55.25	-25	-30.25	-79.37	-58.58	8.26	11.59	V
	10003.68	-54.14	-25	-29.14	-79.62	-55.67	10.45	11.98	V
Middle	5031.84	-60.28	-25	-35.28	-79.87	-65.84	7.14	12.70	H
	7547.76	-55.63	-25	-30.63	-79.27	-58.93	8.30	11.60	H
	10063.68	-52.91	-25	-27.91	-79.87	-54.43	10.48	12.00	H
	5031.84	-60.41	-25	-35.41	-79.93	-65.97	7.14	12.70	V
	7547.76	-55.16	-25	-30.16	-79.25	-58.46	8.30	11.60	V
	10063.68	-54.41	-25	-29.41	-79.97	-55.93	10.48	12.00	V
Highest	5061.84	-60.27	-25	-35.27	-79.89	-65.83	7.16	12.72	H
	7592.76	-55.61	-25	-30.61	-79.18	-58.91	8.33	11.63	H
	10123.68	-52.82	-25	-27.82	-79.75	-54.42	10.50	12.10	H
	5061.84	-60.52	-25	-35.52	-80.01	-66.08	7.16	12.72	V
	7592.76	-55.35	-25	-30.35	-79.42	-58.65	8.33	11.63	V
	10123.68	-54.16	-25	-29.16	-79.79	-55.76	10.50	12.10	V

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

EN-DC_5A_n7A / LTE 10MHz + NR 40MHz / QPSK / ANT0(LTE) & ANT1(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 n7 Lowest	5001.84	-60.24	-25	-35.24	-79.79	-65.80	7.12	12.68	H
	7502.76	-55.51	-25	-30.51	-79.22	-58.84	8.26	11.59	H
	10003.68	-52.02	-25	-27.02	-78.98	-53.55	10.45	11.98	H
	5001.84	-60.22	-25	-35.22	-79.76	-65.78	7.12	12.68	V
	7502.76	-54.83	-25	-29.83	-78.95	-58.16	8.26	11.59	V
	10003.68	-53.84	-25	-28.84	-79.32	-55.37	10.45	11.98	V
LTE Band5 Lowest	1664	-67.57	-13	-54.57	-76.75	-70.80	3.98	9.36	H
	2496	-65.57	-13	-52.57	-77.36	-69.12	4.85	10.55	H
	3328	-62.41	-13	-49.41	-77.32	-67.34	5.50	12.58	H
	1664	-69.60	-13	-56.60	-75.86	-72.83	3.98	9.36	V
	2496	-65.59	-13	-52.59	-77.06	-69.14	4.85	10.55	V
	3328	-62.47	-13	-49.47	-77.28	-67.40	5.50	12.58	V
NR n7 Middle	5031.84	-59.98	-25	-34.98	-79.57	-65.54	7.14	12.70	H
	7547.76	-55.11	-25	-30.11	-78.75	-58.41	8.30	11.60	H
	10063.68	-51.99	-25	-26.99	-78.95	-53.51	10.48	12.00	H
	5031.84	-59.87	-25	-34.87	-79.39	-65.43	7.14	12.70	V
	7547.76	-54.74	-25	-29.74	-78.83	-58.04	8.30	11.60	V
	10063.68	-53.79	-25	-28.79	-79.35	-55.31	10.48	12.00	V
LTE Band5 Middle	1664	-68.57	-13	-55.57	-75.58	-71.82	4.00	9.40	H
	2496	-65.19	-13	-52.19	-76.87	-68.76	4.88	10.60	H
	3328	-62.19	-13	-49.19	-77.06	-67.12	5.52	12.60	H
	1664	-68.76	-13	-55.76	-75.91	-72.01	4.00	9.40	V
	2496	-65.17	-13	-52.17	-76.94	-68.74	4.88	10.60	V
	3328	-62.45	-13	-49.45	-77.30	-67.38	5.52	12.60	V
NR n7 Highest	5061.84	-59.91	-25	-34.91	-79.53	-65.47	7.16	12.72	H
	7592.76	-55.25	-25	-30.25	-78.82	-58.55	8.33	11.63	H
	10123.68	-52.39	-25	-27.39	-79.32	-53.99	10.50	12.10	H
	5061.84	-60.16	-25	-35.16	-79.65	-65.72	7.16	12.72	V
	7592.76	-53.99	-25	-28.99	-78.06	-57.29	8.33	11.63	V
	10123.68	-53.52	-25	-28.52	-79.15	-55.12	10.50	12.10	V
LTE Band5 Highest	1664	-67.51	-13	-54.51	-74.52	-70.68	4.10	9.42	H
	2496	-65.98	-13	-52.98	-77.66	-69.56	4.90	10.63	H
	3328	-62.54	-13	-49.54	-77.41	-67.46	5.55	12.62	H
	1664	-69.03	-13	-56.03	-76.18	-72.20	4.10	9.42	V
	2496	-65.93	-13	-52.93	-77.70	-69.51	4.90	10.63	V
	3328	-62.55	-13	-49.55	-77.40	-67.47	5.55	12.62	V

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

SA n38 / 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)
Lowest	5141.50	-60.57	-25	-35.57	-80.24	-66.13	7.12	12.68	H
	7712.25	-55.74	-25	-30.74	-79.15	-59.07	8.26	11.59	H
	10283.00	-52.82	-25	-27.82	-79.73	-54.35	10.45	11.98	H
	5141.50	-60.85	-25	-35.85	-80.25	-66.41	7.12	12.68	V
	7712.25	-54.97	-25	-29.97	-78.99	-58.30	8.26	11.59	V
	10283.00	-53.83	-25	-28.83	-79.67	-55.36	10.45	11.98	V
Middle	5171.50	-60.00	-25	-35.00	-79.62	-65.56	7.14	12.70	H
	7757.25	-55.49	-25	-30.49	-78.77	-58.79	8.30	11.60	H
	10343.04	-52.72	-25	-27.72	-79.63	-54.24	10.48	12.00	H
	5171.50	-60.87	-25	-35.87	-80.17	-66.43	7.14	12.70	V
	7757.25	-55.11	-25	-30.11	-79.03	-58.41	8.30	11.60	V
	10343.04	-53.99	-25	-28.99	-79.91	-55.51	10.48	12.00	V
Highest	5201.50	-61.01	-25	-36.01	-80.61	-66.57	7.16	12.72	H
	7802.25	-56.08	-25	-31.08	-79.23	-59.38	8.33	11.63	H
	10403.00	-52.61	-25	-27.61	-79.51	-54.21	10.50	12.10	H
	5201.50	-61.13	-25	-36.13	-80.34	-66.69	7.16	12.72	V
	7802.25	-55.59	-25	-30.59	-79.42	-58.89	8.33	11.63	V
	10403.00	-53.69	-25	-28.69	-79.69	-55.29	10.50	12.10	V

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

SA n41 / NR 100MHz / QPSK / ANT8									
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	4994.00	-61.71	-25	-36.71	-81.26	-67.27	7.12	12.68	H
	7491.00	-55.92	-25	-30.92	-79.65	-59.25	8.26	11.59	H
	9988.00	-52.88	-25	-27.88	-79.84	-54.41	10.45	11.98	H
	4994.00	-61.57	-25	-36.57	-81.1	-67.13	7.12	12.68	V
	7491.00	-55.30	-25	-30.30	-79.43	-58.63	8.26	11.59	V
	9988.00	-54.26	-25	-29.26	-79.81	-55.79	10.45	11.98	V
Middle	5088.00	-60.51	-25	-35.51	-80.16	-66.07	7.14	12.70	H
	7632.00	-55.85	-25	-30.85	-79.36	-59.15	8.30	11.60	H
	10176.00	-52.84	-25	-27.84	-79.77	-54.36	10.48	12.00	H
	5088.00	-60.57	-25	-35.57	-80.05	-66.13	7.14	12.70	V
	7632.00	-55.00	-25	-30.00	-79.04	-58.30	8.30	11.60	V
	10176.00	-53.93	-25	-28.93	-79.63	-55.45	10.48	12.00	V
Highest	5182.00	-60.78	-25	-35.78	-80.41	-66.34	7.16	12.72	H
	7773.00	-55.80	-25	-30.80	-79.02	-59.10	8.33	11.63	H
	10364.00	-53.25	-25	-28.25	-80.15	-54.85	10.50	12.10	H
	5182.00	-61.11	-25	-36.11	-80.4	-66.67	7.16	12.72	V
	7773.00	-55.29	-25	-30.29	-79.16	-58.59	8.33	11.63	V
	10364.00	-53.76	-25	-28.76	-79.71	-55.36	10.50	12.10	V

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

SA n41 UL MIMO / NR 100MHz / QPSK / ANT8+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)
Lowest	4994.80	-61.11	-25	-36.11	-80.66	-66.67	7.12	12.68	H
	7492.20	-55.56	-25	-30.56	-79.29	-58.89	8.26	11.59	H
	9989.60	-52.05	-25	-27.05	-79.00	-53.58	10.45	11.98	H
	4994.80	-61.15	-25	-36.15	-80.68	-66.71	7.12	12.68	V
	7492.20	-55.10	-25	-30.10	-79.23	-58.43	8.26	11.59	V
	9989.60	-53.78	-25	-28.78	-79.31	-55.31	10.45	11.98	V
Middle	5089.00	-59.82	-25	-34.82	-79.47	-65.38	7.14	12.70	H
	7633.50	-55.14	-25	-30.14	-78.65	-58.44	8.30	11.60	H
	10178.00	-52.31	-25	-27.31	-79.24	-53.83	10.48	12.00	H
	5089.00	-59.83	-25	-34.83	-79.31	-65.39	7.14	12.70	V
	7633.50	-54.15	-25	-29.15	-78.19	-57.45	8.30	11.60	V
	10178.00	-53.41	-25	-28.41	-79.11	-54.93	10.48	12.00	V
Highest	5182.80	-60.40	-25	-35.40	-80.03	-65.96	7.16	12.72	H
	7774.20	-55.20	-25	-30.20	-78.41	-58.50	8.33	11.63	H
	10365.60	-52.38	-25	-27.38	-79.28	-53.98	10.50	12.10	H
	5182.80	-60.25	-25	-35.25	-79.54	-65.81	7.16	12.72	V
	7774.20	-54.58	-25	-29.58	-78.45	-57.88	8.33	11.63	V
	10365.60	-53.40	-25	-28.40	-79.35	-55.00	10.50	12.10	V

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

SA n71 / NR 20MHz / QPSK / ANT0									
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	1327	-40.06	-13	-27.06	-47.50	-43.29	3.98	9.36	H
	1990.5	-45.29	-13	-32.29	-54.39	-48.84	4.85	10.55	H
	2654	-63.19	-13	-50.19	-75.94	-68.12	5.50	12.58	H
	1327	-41.46	-13	-28.46	-48.84	-44.69	3.98	9.36	V
	1990.5	-45.15	-13	-32.15	-54.36	-48.70	4.85	10.55	V
	2654	-64.08	-13	-51.08	-76.70	-69.01	5.50	12.58	V
Middle	1342	-40.66	-13	-27.66	-48.24	-43.91	4.00	9.40	H
	2013	-44.33	-13	-31.33	-53.67	-47.90	4.88	10.60	H
	2684	-63.47	-13	-50.47	-76.38	-68.40	5.52	12.60	H
	1342	-42.11	-13	-29.11	-49.63	-45.36	4.00	9.40	V
	2013	-45.40	-13	-32.40	-54.86	-48.97	4.88	10.60	V
	2684	-63.47	-13	-50.47	-76.26	-68.40	5.52	12.60	V
Highest	1357	-43.19	-13	-30.19	-50.97	-46.36	4.10	9.42	H
	2035.5	-43.10	-13	-30.10	-52.73	-46.68	4.90	10.63	H
	2714	-63.34	-13	-50.34	-76.40	-68.26	5.55	12.62	H
	1357	-43.19	-13	-30.19	-50.89	-46.36	4.10	9.42	V
	2035.5	-44.63	-13	-31.63	-54.40	-48.21	4.90	10.63	V
	2714	-63.68	-13	-50.68	-76.64	-68.60	5.55	12.62	V

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

EN-DC_2A_n71A / LTE 20MHz + NR 20MHz / QPSK / ANT1(LTE) & ANT0(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 n71 Lowest	1346	-66.86	-13	-53.86	-74.53	-70.09	3.98	9.36	H
	2019	-67.26	-13	-54.26	-76.66	-70.81	4.85	10.55	H
	2692	-64.09	-13	-51.09	-77.03	-69.02	5.50	12.58	H
	1346	-66.87	-13	-53.87	-74.47	-70.10	3.98	9.36	V
	2019	-67.07	-13	-54.07	-76.60	-70.62	4.85	10.55	V
	2692	-64.22	-13	-51.22	-77.05	-69.15	5.50	12.58	V
LTE Band2 Lowest	3742.18	-60.81	-13	-47.81	-77.44	-67.57	5.82	12.58	H
	5613.27	-59.48	-13	-46.48	-79.00	-65.20	7.28	13.00	H
	7484.36	-55.46	-13	-42.46	-79.21	-58.62	8.32	11.48	H
	3742.18	-61.33	-13	-48.33	-77.58	-68.09	5.82	12.58	V
	5613.27	-60.48	-13	-47.48	-79.48	-66.20	7.28	13.00	V
	7484.36	-54.72	-13	-41.72	-78.86	-57.88	8.32	11.48	V
NR n71 Middle	1361	-66.66	-13	-53.66	-74.48	-69.91	4.00	9.40	H
	2041.5	-66.72	-13	-53.72	-76.41	-70.29	4.88	10.60	H
	2722	-64.15	-13	-51.15	-77.28	-69.08	5.52	12.60	H
	1361	-66.58	-13	-53.58	-74.32	-69.83	4.00	9.40	V
	2041.5	-66.77	-13	-53.77	-76.62	-70.34	4.88	10.60	V
	2722	-64.37	-13	-51.37	-77.40	-69.30	5.52	12.60	V
LTE Band2 Middle	3742.18	-60.74	-13	-47.74	-77.37	-67.49	5.85	12.60	H
	5613.27	-59.52	-13	-46.52	-79.04	-65.32	7.30	13.10	H
	7484.36	-55.27	-13	-42.27	-79.02	-58.42	8.35	11.50	H
	3742.18	-61.39	-13	-48.39	-77.64	-68.14	5.85	12.60	V
	5613.27	-60.47	-13	-47.47	-79.47	-66.27	7.30	13.10	V
	7484.36	-55.09	-13	-42.09	-79.23	-58.24	8.35	11.50	V
NR n71 Highest	1376	-66.88	-13	-53.88	-74.90	-70.05	4.10	9.42	H
	2064	-67.12	-13	-54.12	-77.10	-70.70	4.90	10.63	H
	2752	-63.84	-13	-50.84	-77.14	-68.76	5.55	12.62	H
	1376	-66.97	-13	-53.97	-74.90	-70.14	4.10	9.42	V
	2064	-66.93	-13	-53.93	-77.09	-70.51	4.90	10.63	V
	2752	-64.05	-13	-51.05	-77.26	-68.97	5.55	12.62	V
LTE Band2 Highest	3742.18	-60.92	-13	-47.92	-77.55	-67.66	5.88	12.62	H
	5613.27	-59.62	-13	-46.62	-79.14	-65.43	7.32	13.13	H
	7484.36	-55.20	-13	-42.20	-78.95	-58.36	8.38	11.54	H
	3742.18	-61.43	-13	-48.43	-77.68	-68.17	5.88	12.62	V
	5613.27	-60.30	-13	-47.30	-79.3	-66.11	7.32	13.13	V
	7484.36	-54.71	-13	-41.71	-78.85	-57.87	8.38	11.54	V

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