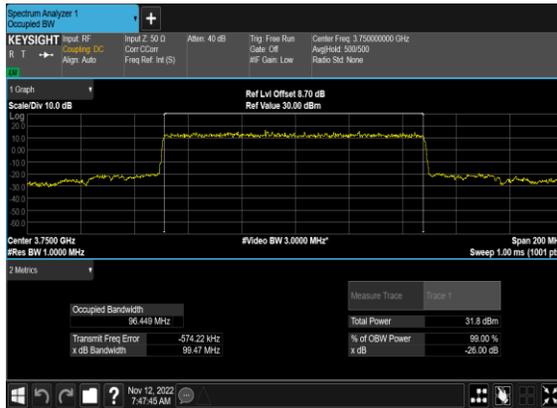


N78(100M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



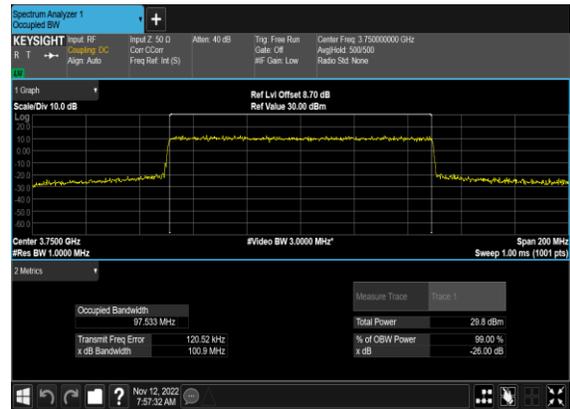
N78(100M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



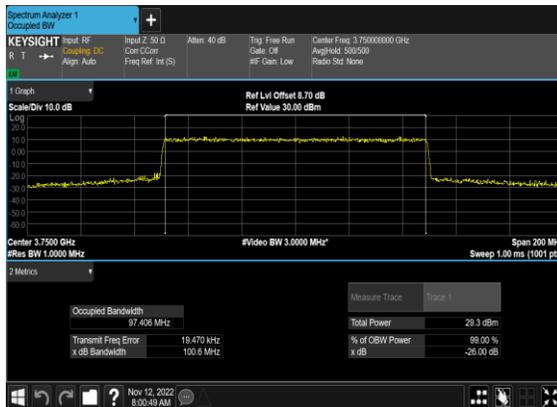
N78(100M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



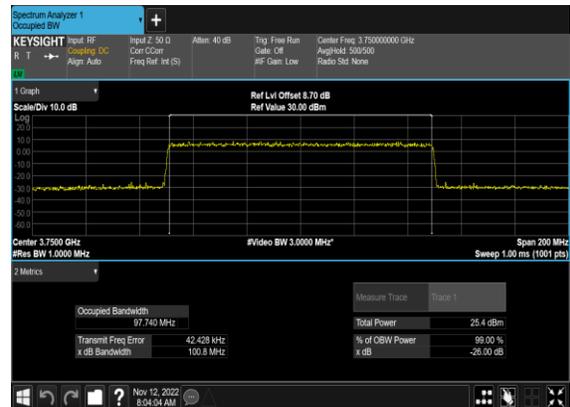
N78(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

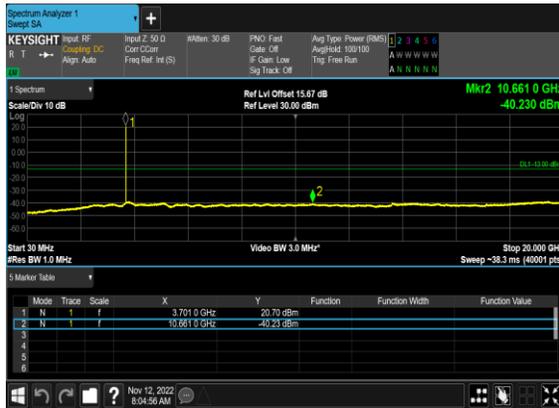


Conducted Spurious Emissions

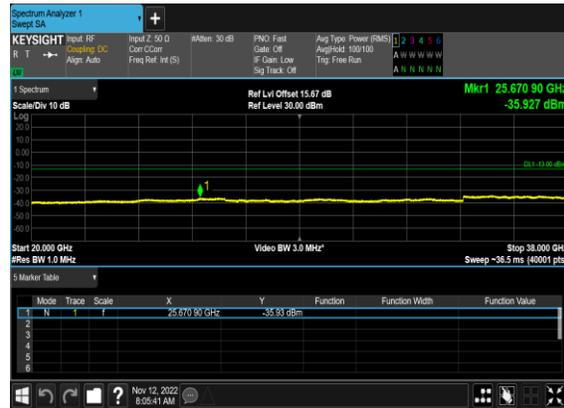
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	10	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	10	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	---

78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

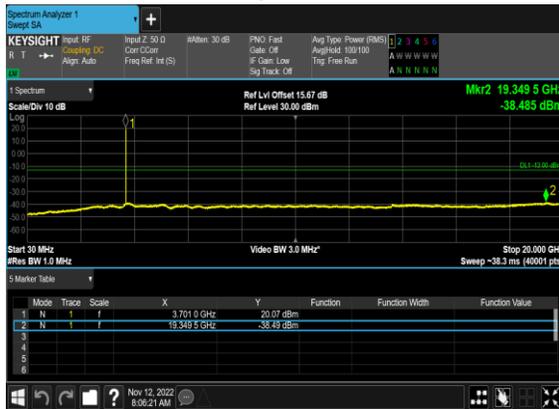
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



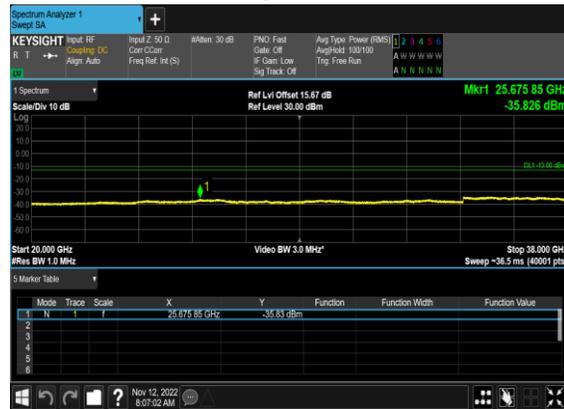
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



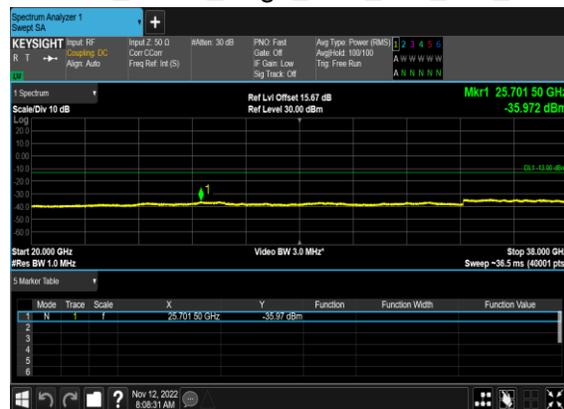
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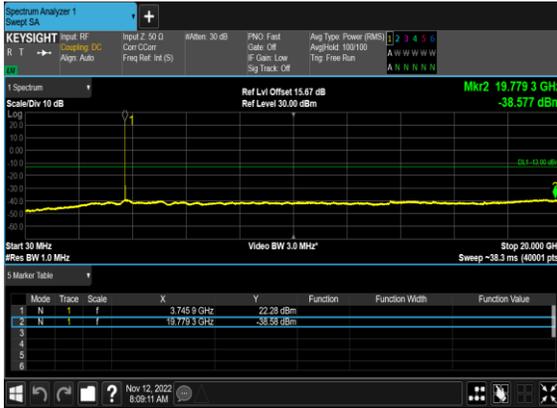
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



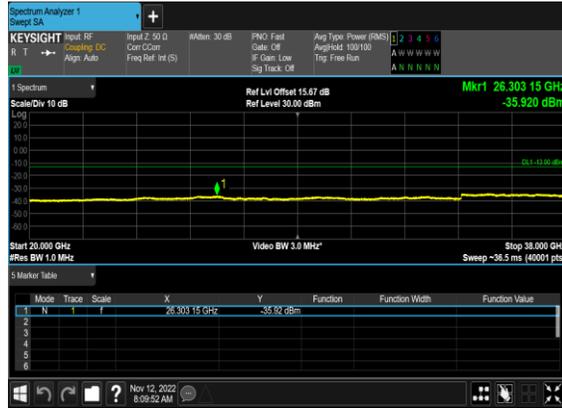
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



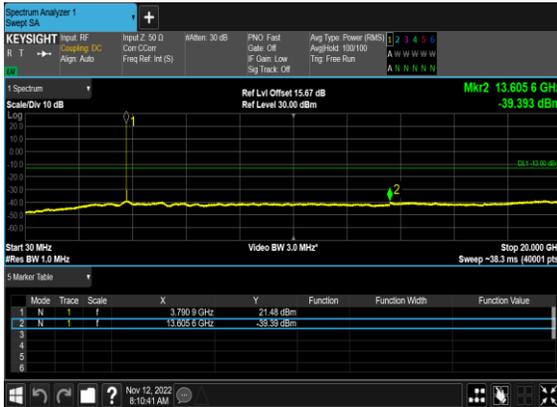
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



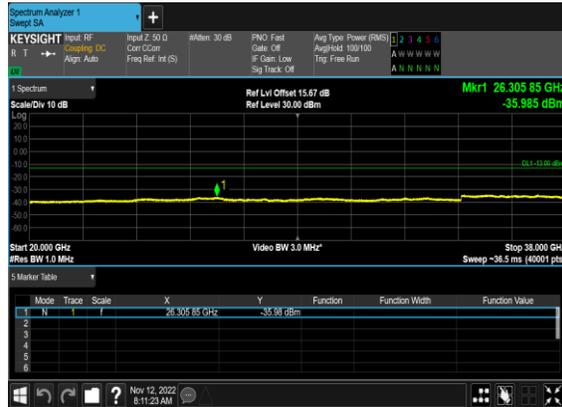
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



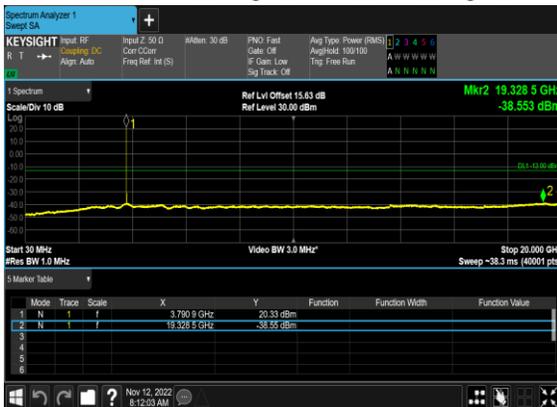
N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



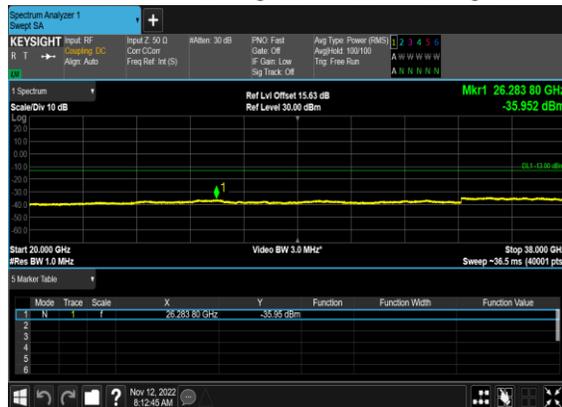
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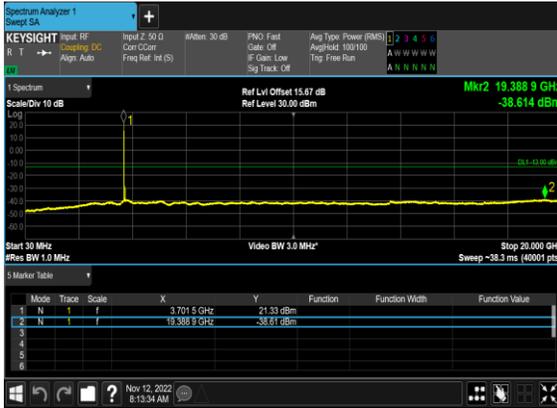
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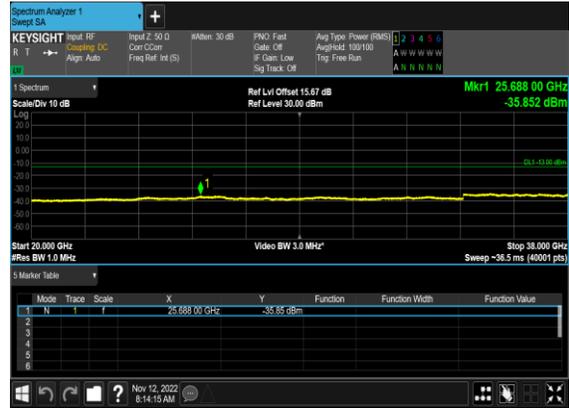
N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



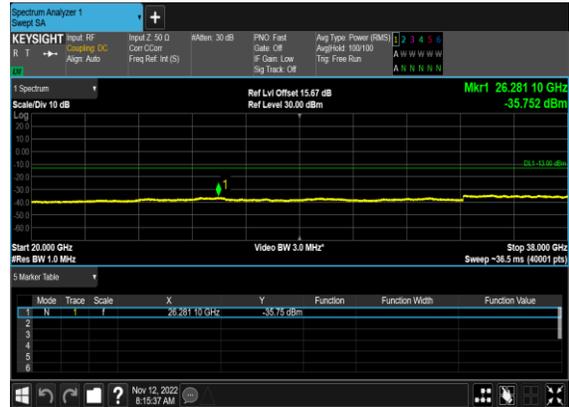
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



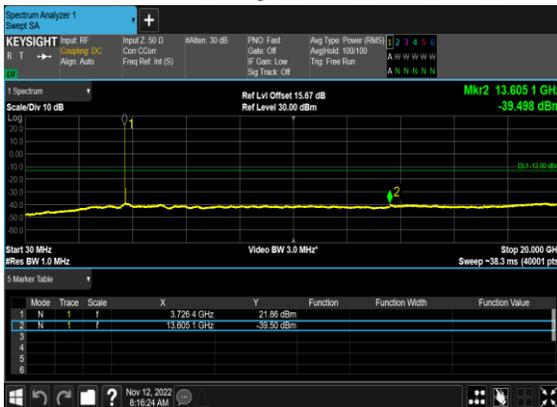
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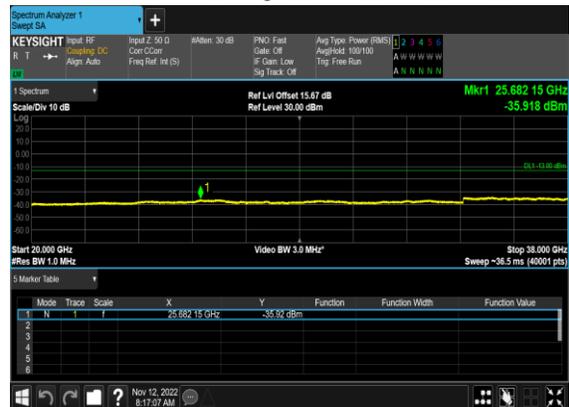
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



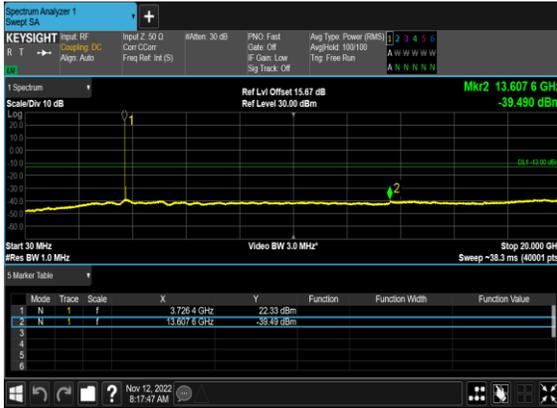
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



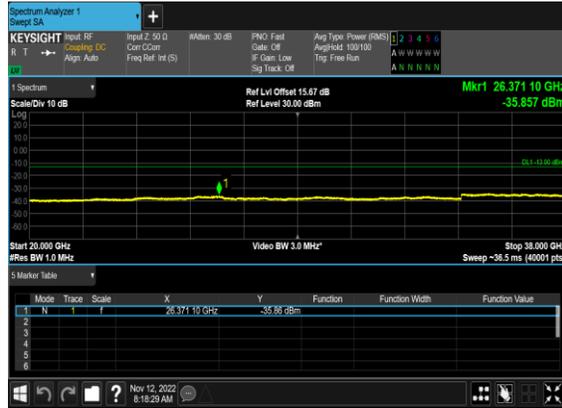
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



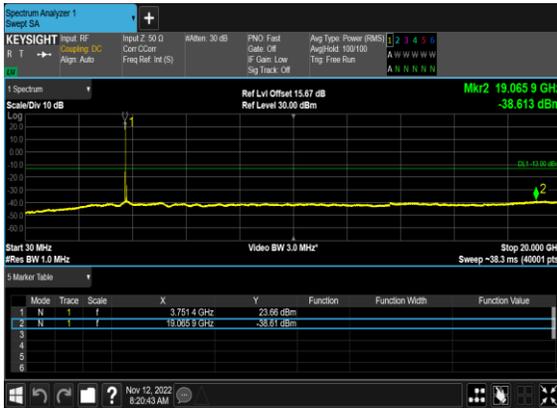
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



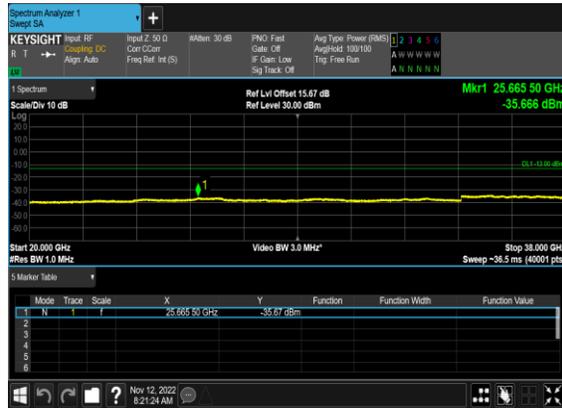
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



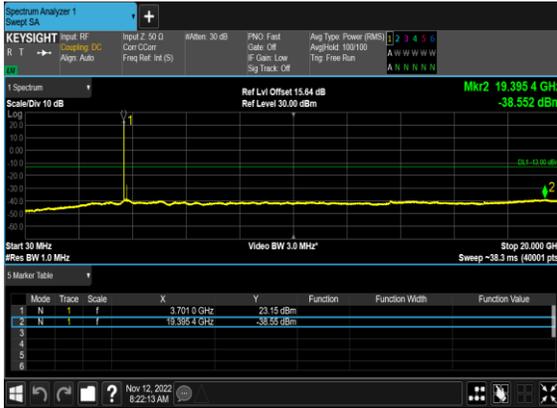
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



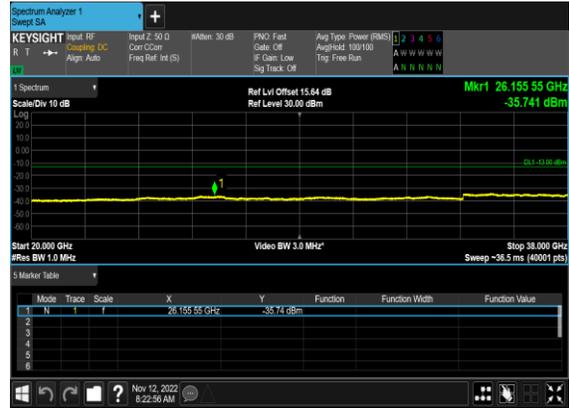
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	10	647000	3705.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
78	30	10	647000	3705.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	1@23	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	1@23	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
78	30	10	653000	3795.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM BPSK	128@0	see graph	PASS
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	128@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	1@132	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@132	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM BPSK	128@0	see graph	PASS
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	128@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@272	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
78	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	PASS

N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



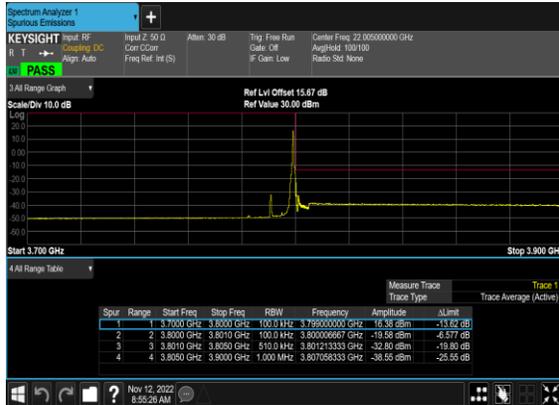
N78(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



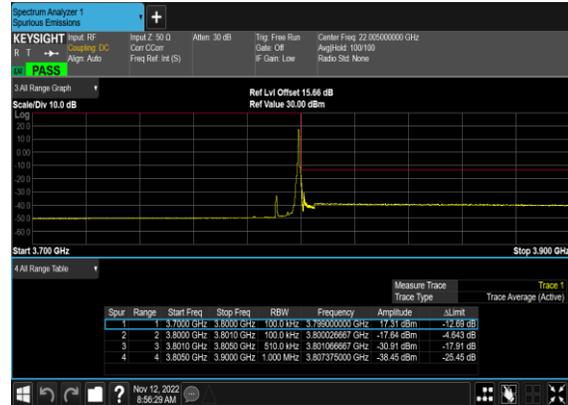
N78(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



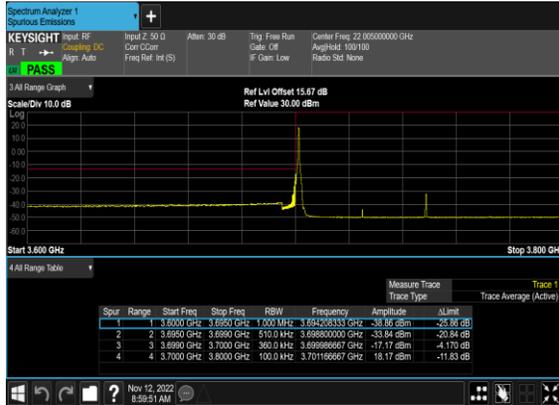
N78(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



N78(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



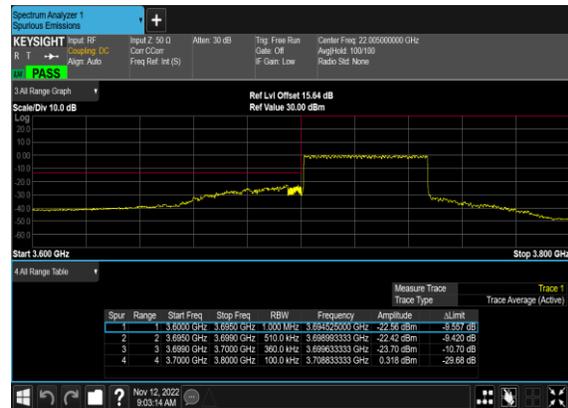
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



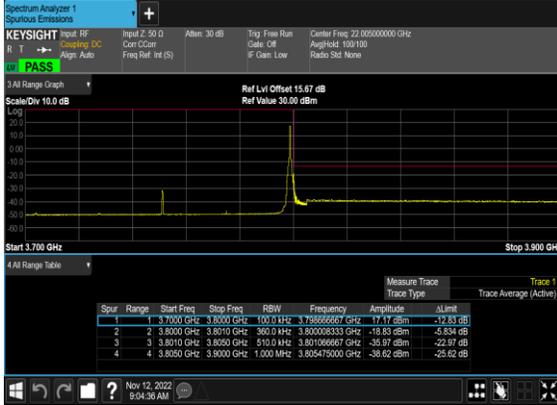
N78(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



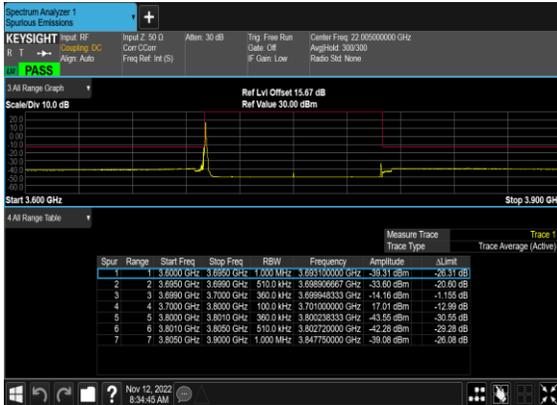
N78(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



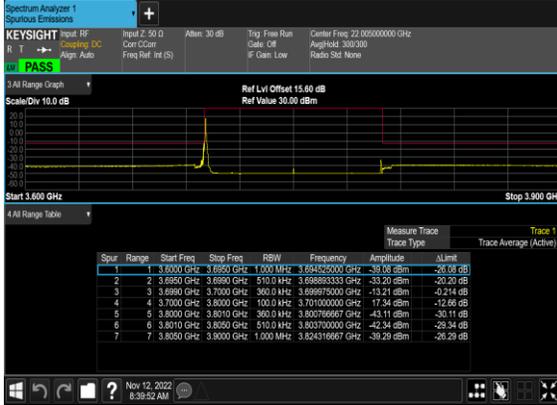
N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



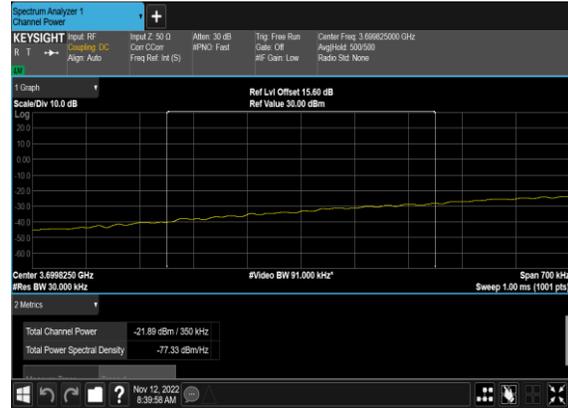
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH_CHP_PA SS



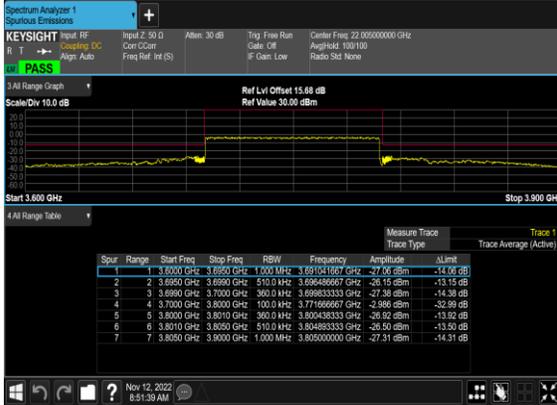
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N78(100M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Carl Ni	Temperature :	22~23°C
		Relative Humidity :	40~42%

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

n5A / NR 20MHz / QPSK ANT0								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1656	-66.59	-13	-53.59	-73.56	1.58	10.70	H
	2480	-61.54	-13	-48.54	-69.79	2.102	12.50	H
	3312	-60.21	-13	-47.21	-69.10	2.856	13.90	H
	1656	-65.56	-13	-52.56	-72.53	1.58	10.70	V
	2480	-59.86	-13	-46.86	-68.11	2.10	12.50	V
	3312	-60.40	-13	-47.40	-69.29	2.86	13.90	V

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

EN-DC_7A_n5A / LTE10MHz + NR 20MHz / QPSK / ANT5(LTE) & ANT0(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1656	-66.68	-13	-53.68	-73.65	1.58	10.70	H
	2480	-61.85	-13	-48.85	-70.10	2.102	12.50	H
	3312	-60.56	-13	-47.56	-69.45	2.856	13.90	H
	1656	-65.83	-13	-52.83	-72.80	1.58	10.70	V
	2480	-60.03	-13	-47.03	-68.28	2.10	12.50	V
	3312	-60.07	-13	-47.07	-68.96	2.86	13.90	V



n7A / NR 40MHz / QPSK ANT5								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052	-64.51	-25	-39.51	-74.72	3.03	13.24	H
	7576	-58.48	-25	-33.48	-67.93	3.56	13.01	H
	10100	-61.60	-25	-36.60	-71.12	3.92	13.44	H
	5052	-64.76	-25	-39.76	-74.97	3.03	13.24	V
	7576	-60.30	-25	-35.30	-69.75	3.56	13.01	V
	10100	-60.16	-25	-35.16	-69.68	3.92	13.44	V

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

n41A / NR 100MHz / QPSK ANT5								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5096	-63.77	-25	-38.77	-73.98	3.03	13.24	H
	7632	-60.58	-25	-35.58	-70.03	3.56	13.01	H
	10180	-60.69	-25	-35.69	-70.21	3.92	13.44	H
	5096	-64.11	-25	-39.11	-74.32	3.03	13.24	V
	7632	-60.00	-25	-35.00	-69.45	3.56	13.01	V
	10180	-61.29	-25	-36.29	-70.81	3.92	13.44	V

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

n77A / NR 100MHz / QPSK ANT7								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7584	-55.00	-13	-42.00	-65.21	3.03	13.24	H
	11388	-61.69	-13	-48.69	-71.14	3.56	13.01	H
	15180	-59.82	-13	-46.82	-69.34	3.92	13.44	H
	7584	-57.78	-13	-44.78	-67.99	3.03	13.24	V
	11376	-58.21	-13	-45.21	-67.66	3.56	13.01	V
	15180	-60.26	-13	-47.26	-69.78	3.92	13.44	V

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



n78A / NR 100MHz / QPSK ANT7								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7002	-60.65	-13	-47.65	-70.86	3.03	13.24	H
	10506	-58.58	-13	-45.58	-68.03	3.56	13.01	H
	14016	-61.54	-13	-48.54	-71.06	3.92	13.44	H
	7002	-50.92	-13	-37.92	-61.13	3.03	13.24	V
	10506	-58.13	-13	-45.13	-67.58	3.56	13.01	V
	14016	-61.19	-13	-48.19	-70.71	3.92	13.44	V

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

EN-DC_2A_n78A / LTE10MHz + NR 100MHz / QPSK / ANT5(LTE) & ANT7(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7002	-53.85	-13	-40.85	-64.06	3.03	13.24	H
	10506	-60.21	-13	-47.21	-69.66	3.56	13.01	H
	14016	-61.37	-13	-48.37	-70.89	3.92	13.44	H
	7002	-61.03	-13	-48.03	-71.24	3.03	13.24	V
	10506	-56.91	-13	-43.91	-66.36	3.56	13.01	V
	14016	-61.50	-13	-48.50	-71.02	3.92	13.44	V

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

EN-DC_5A_n78A / LTE10MHz + NR 100MHz / QPSK / ANT1(LTE) & ANT7(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7002	-51.80	-13	-38.80	-62.01	3.03	13.24	H
	10506	-59.26	-13	-46.26	-68.71	3.56	13.01	H
	14016	-61.49	-13	-48.49	-71.01	3.92	13.44	H
	7002	-58.45	-13	-45.45	-68.66	3.03	13.24	V
	10506	-57.80	-13	-44.80	-67.25	3.56	13.01	V
	14016	-61.27	-13	-48.27	-70.79	3.92	13.44	V

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



EN-DC_7A_n78A / LTE10MHz + NR 100MHz / QPSK / ANT3(LTE) & ANT7(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7002	-54.11	-13	-41.11	-64.32	3.03	13.24	H
	10506	-58.77	-13	-45.77	-68.22	3.56	13.01	H
	14016	-61.34	-13	-48.34	-70.86	3.92	13.44	H
	7002	-58.76	-13	-45.76	-68.97	3.03	13.24	V
	10506	-59.38	-13	-46.38	-68.83	3.56	13.01	V
	14016	-60.84	-13	-47.84	-70.36	3.92	13.44	V

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

EN-DC_38A_n78A / LTE10MHz + NR 100MHz / QPSK / ANT3(LTE) & ANT7(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7002	-52.82	-13	-39.82	-63.03	3.03	13.24	H
	10506	-59.22	-13	-46.22	-68.67	3.56	13.01	H
	14016	-61.38	-13	-48.38	-70.90	3.92	13.44	H
	7002	-60.50	-13	-47.50	-70.71	3.03	13.24	V
	10506	-56.81	-13	-43.81	-66.26	3.56	13.01	V
	14016	-61.13	-13	-48.13	-70.65	3.92	13.44	V

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

EN-DC_41A_n78A / LTE10MHz + NR 100MHz / QPSK / ANT3(LTE) & ANT7(NR)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7002	-53.68	-13	-40.68	-63.89	3.03	13.24	H
	10512	-62.59	-13	-49.59	-72.04	3.56	13.01	H
	14016	-61.51	-13	-48.51	-71.03	3.92	13.44	H
	7002	-60.74	-13	-47.74	-70.95	3.03	13.24	V
	10512	-62.83	-13	-49.83	-72.28	3.56	13.01	V
	14016	-61.15	-13	-48.15	-70.67	3.92	13.44	V

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