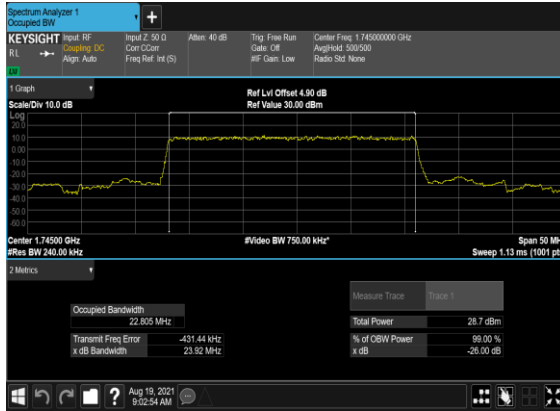
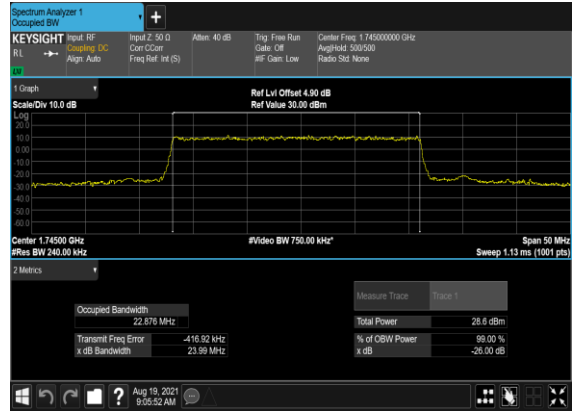


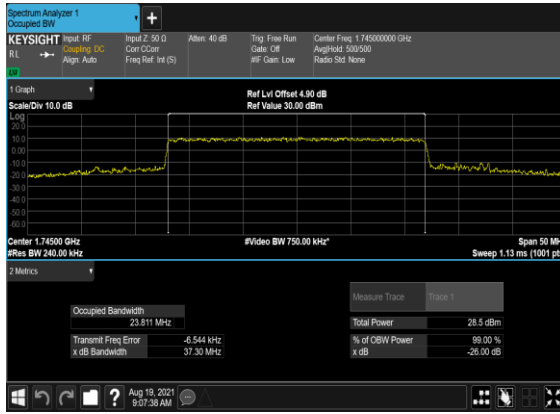
B7_N66(25M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



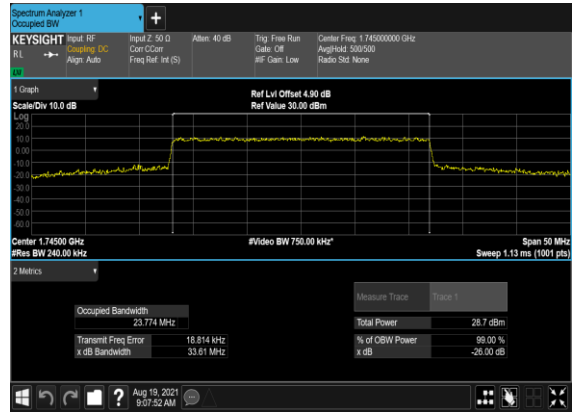
B7_N66(25M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



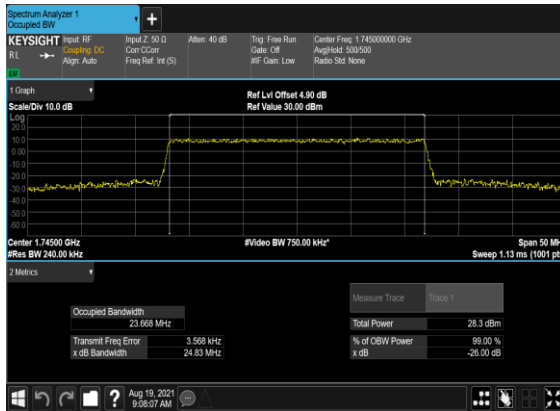
B7_N66(25M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



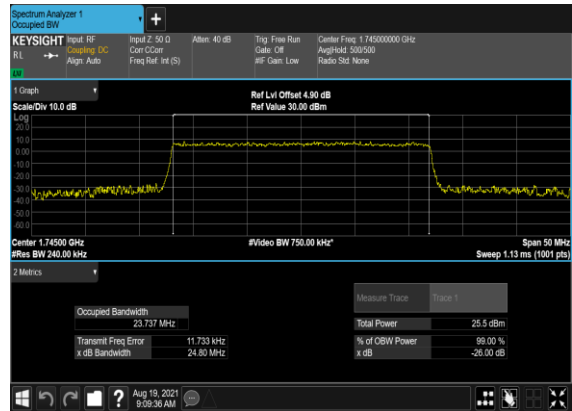
B7_N66(25M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



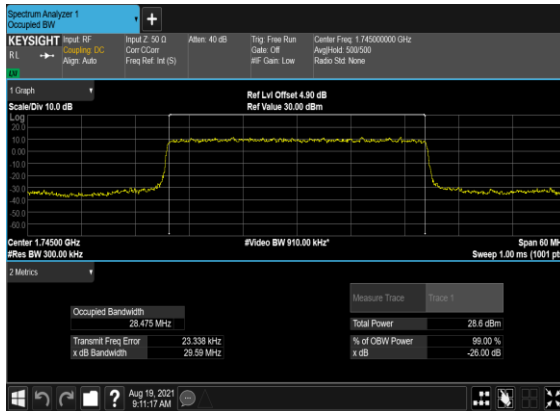
B7_N66(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



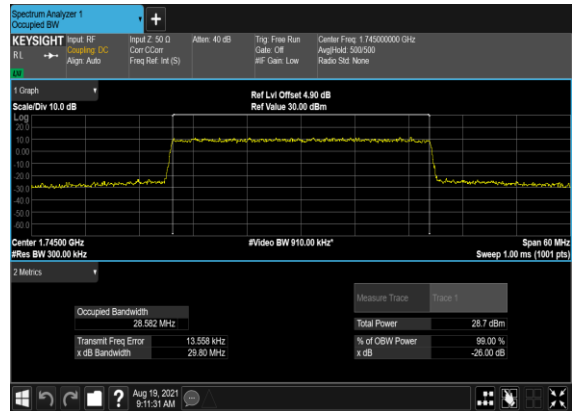
B7_N66(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



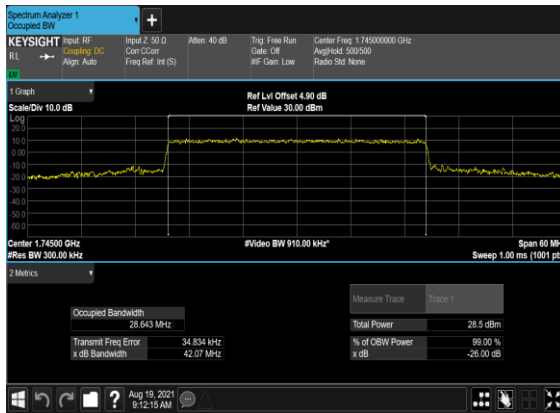
B7_N66(30M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



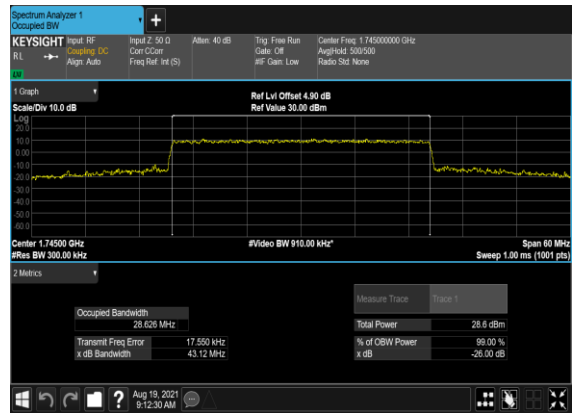
B7_N66(30M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



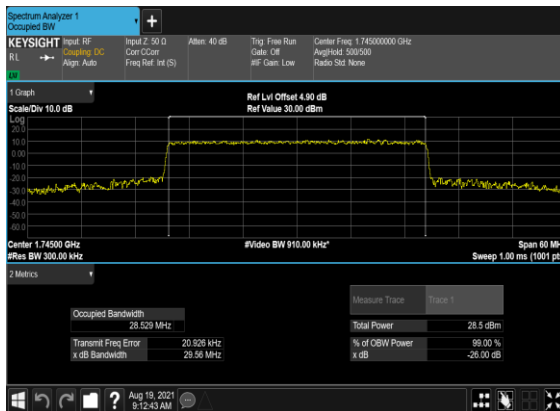
B7_N66(30M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



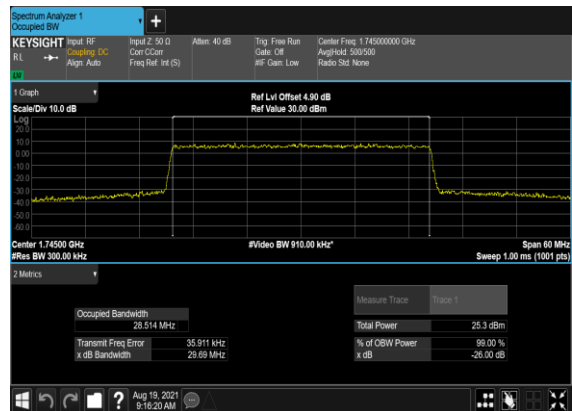
B7_N66(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



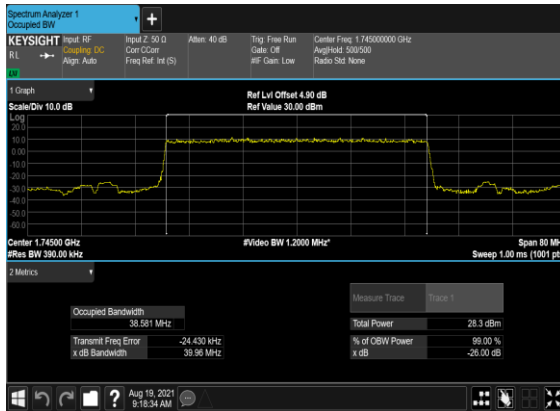
B7_N66(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



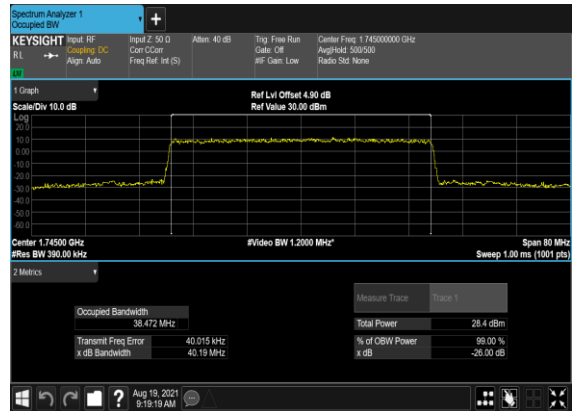
B7_N66(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



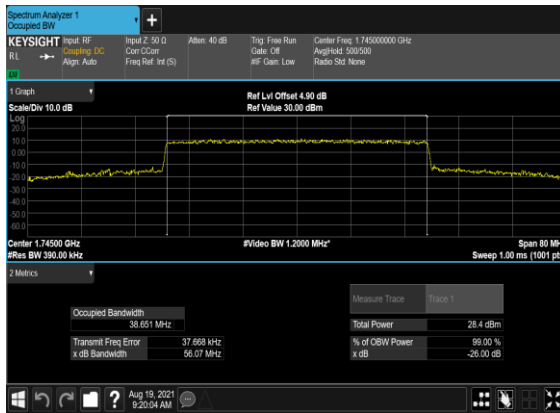
B7_N66(40M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



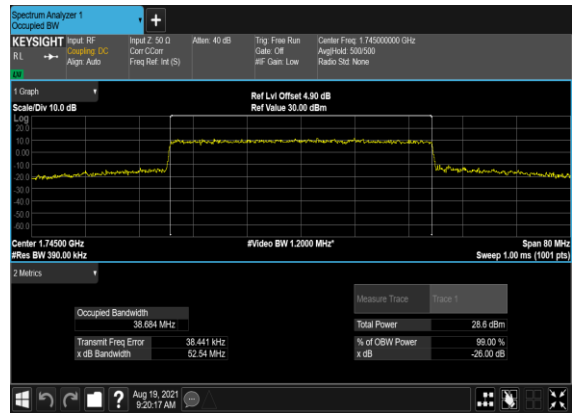
B7_N66(40M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



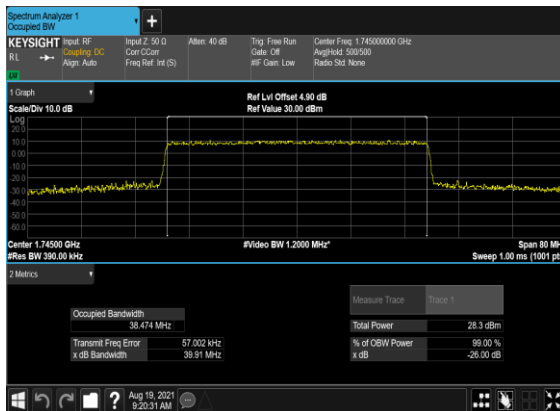
B7_N66(40M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



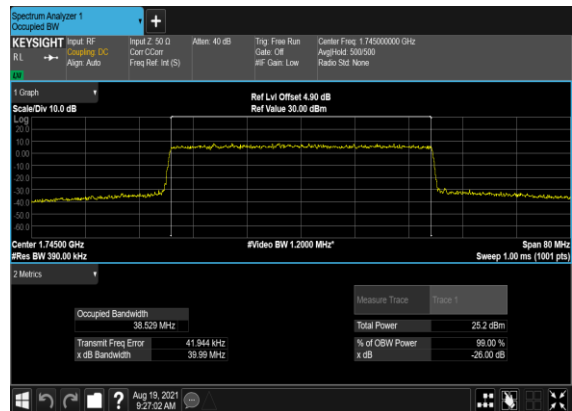
B7_N66(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B7_N66(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B7_N66(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

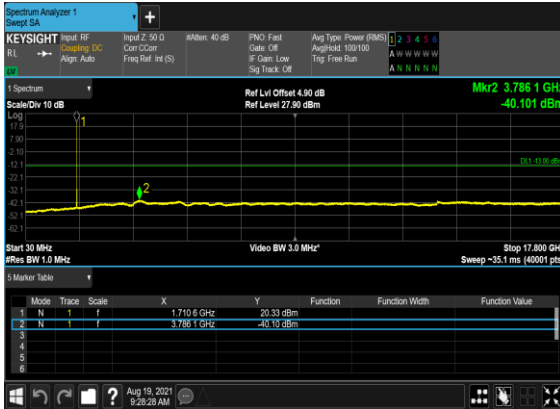


Conducted Spurious Emissions

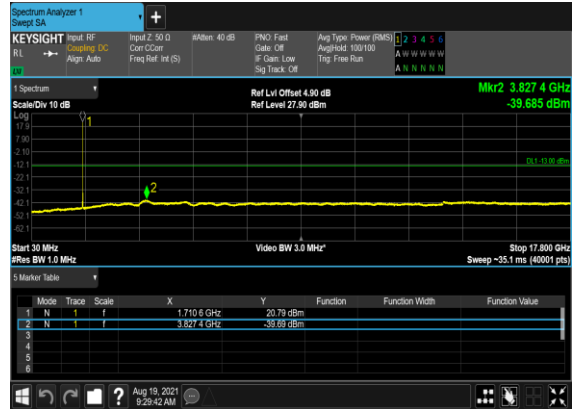
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	435500	1777.5	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	435500	1777.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	435500	1777.5	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	435500	1777.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	424000	1720.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	424000	1720.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	20	424000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	424000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	20	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	434000	1770.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	434000	1770.0	DFT-s-OFDM BPSK	1@0	see graph	PASS

66	15	20	434000	1770.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	434000	1770.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	426000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	40	426000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	426000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	426000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	40	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	432000	1760.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	40	432000	1760.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	432000	1760.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	432000	1760.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

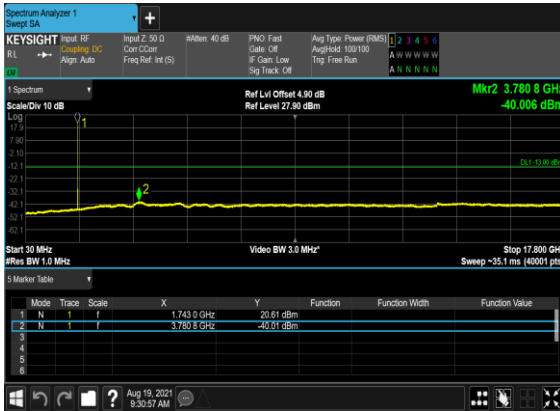
B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



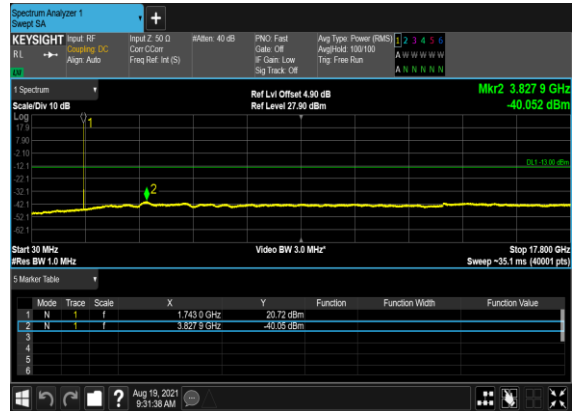
B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



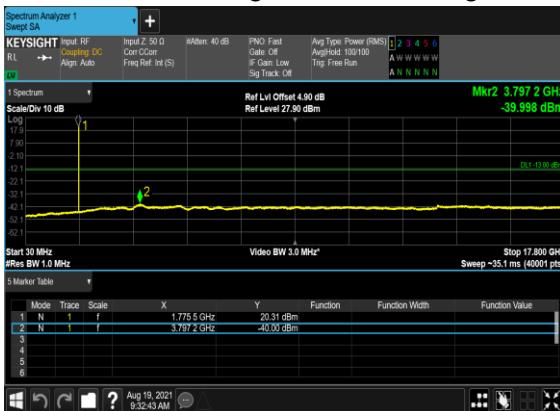
B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



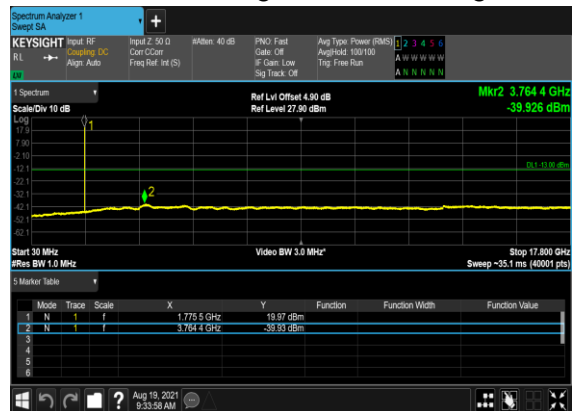
B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



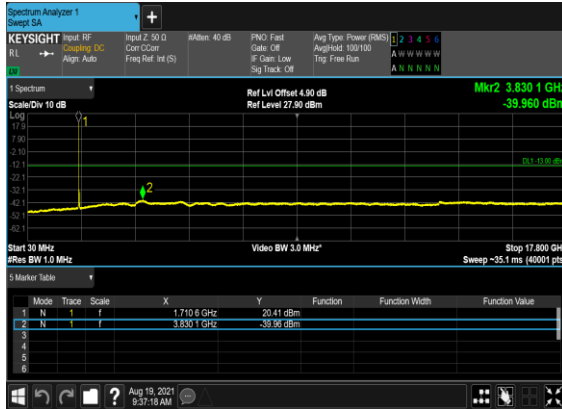
B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



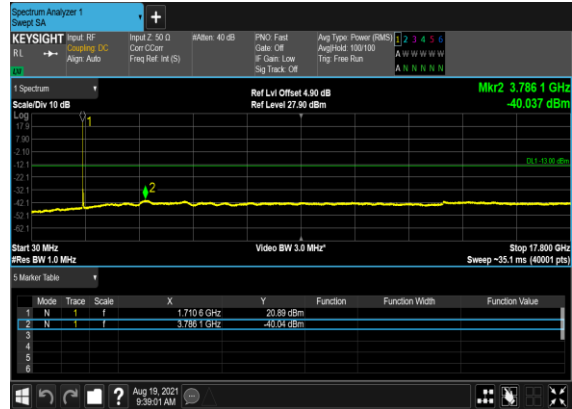
B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



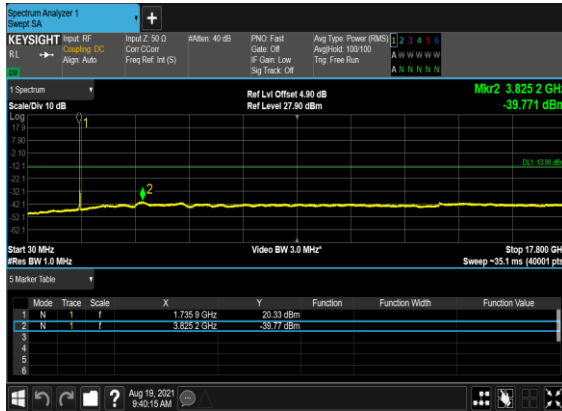
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



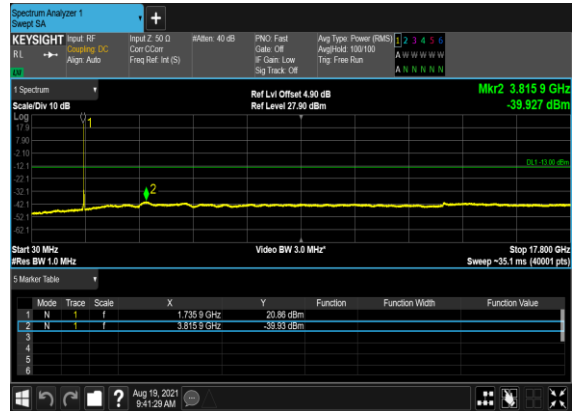
B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



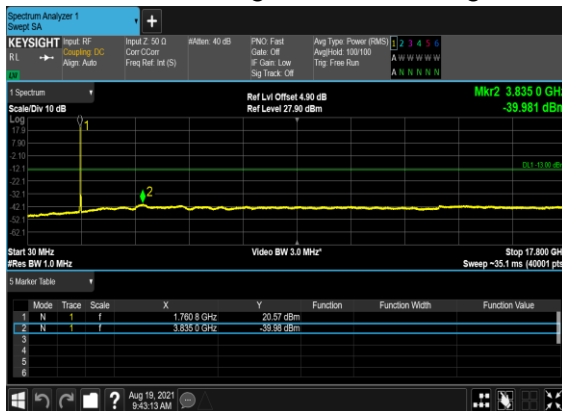
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



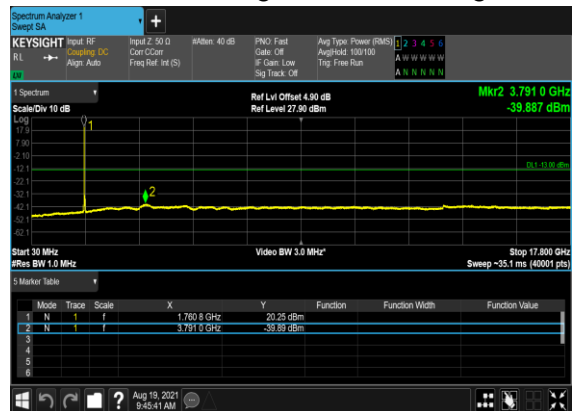
B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



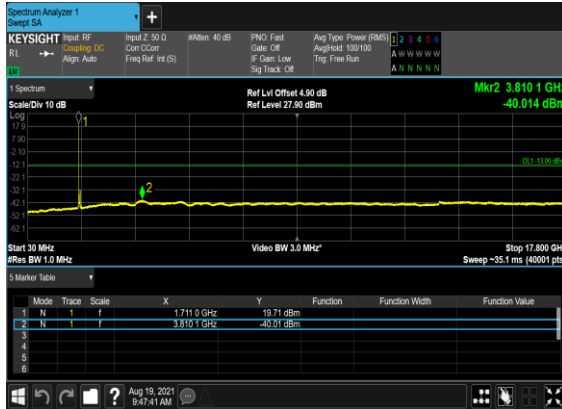
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



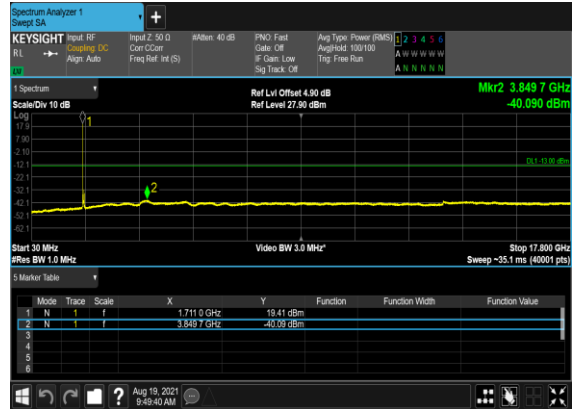
B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



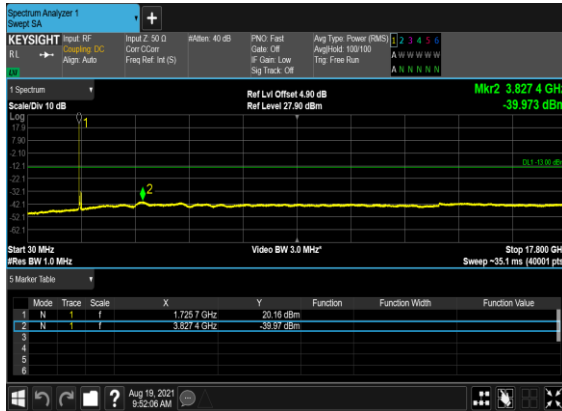
B7_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



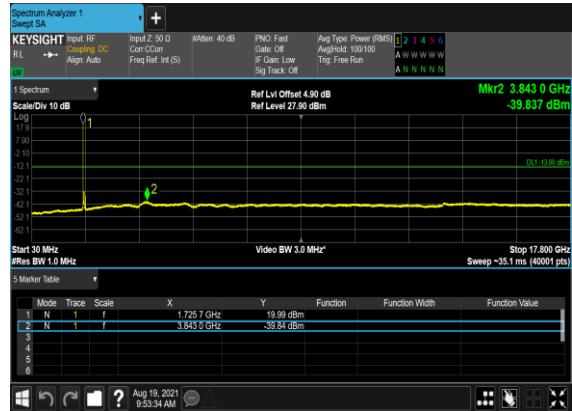
B7_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



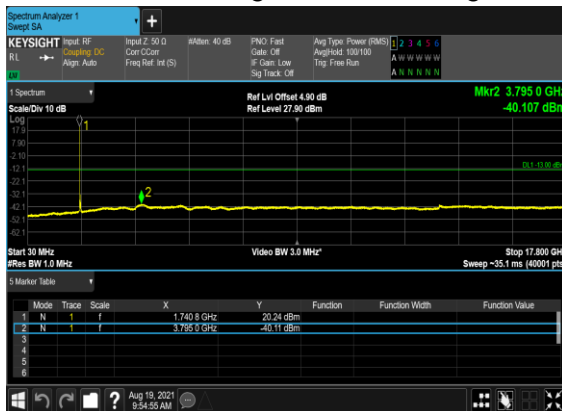
B7_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



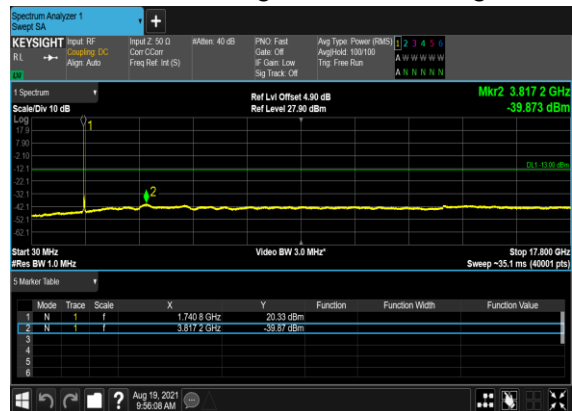
B7_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B7_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B7_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

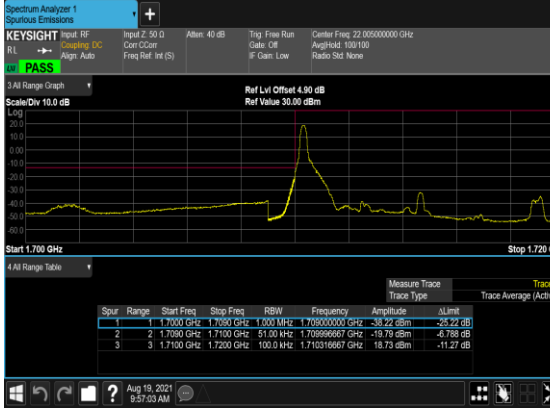


Conducted Band Edge

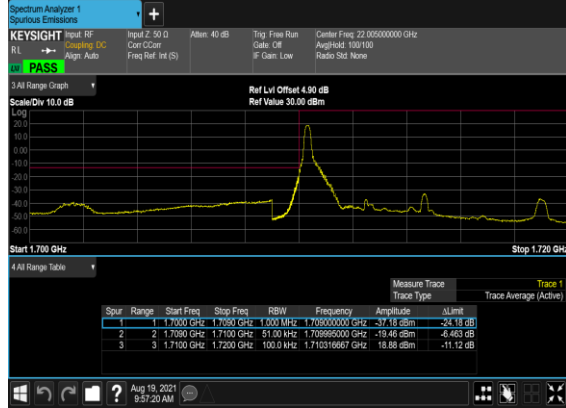
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
66	15	5	435500	1777.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
66	15	5	435500	1777.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
66	15	5	435500	1777.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
66	15	5	435500	1777.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
66	15	20	424000	1720.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	20	424000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	424000	1720.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
66	15	20	424000	1720.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
66	15	20	434000	1770.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
66	15	20	434000	1770.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
66	15	20	434000	1770.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
66	15	20	434000	1770.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
66	15	40	426000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	426000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	426000	1730.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
66	15	40	426000	1730.0	DFT-s-OFDM QPSK	216@0	see graph	PASS
66	15	40	432000	1760.0	DFT-s-OFDM BPSK	1@215	see graph	PASS
66	15	40	432000	1760.0	DFT-s-OFDM QPSK	1@215	see graph	PASS

66	15	40	432000	1760.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
66	15	40	432000	1760.0	DFT-s-OFDM QPSK	216@0	see graph	PASS

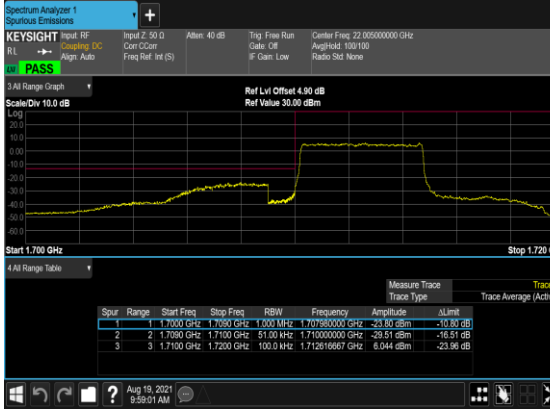
B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



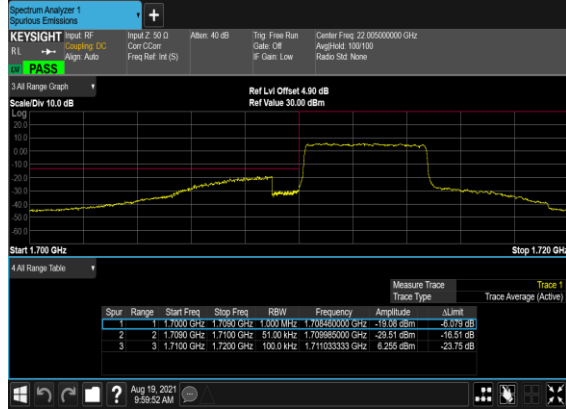
B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



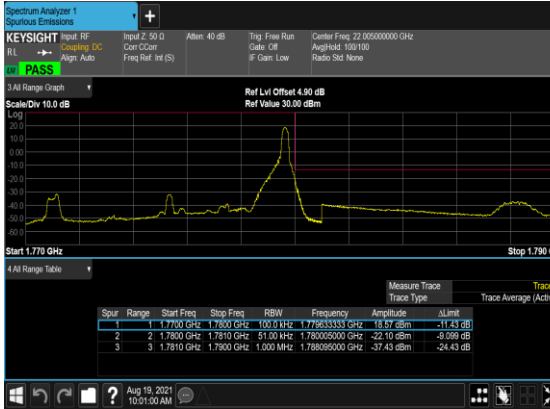
B7_N66(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



B7_N66(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



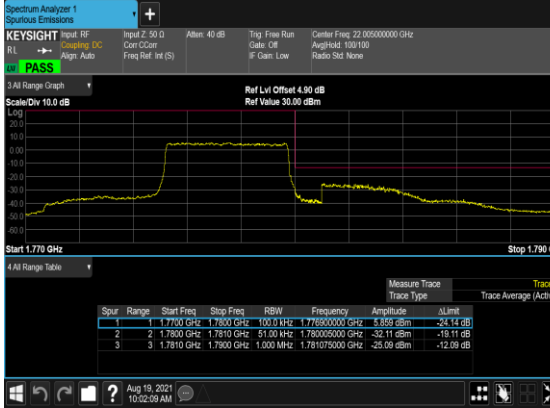
B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



B7_N66(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



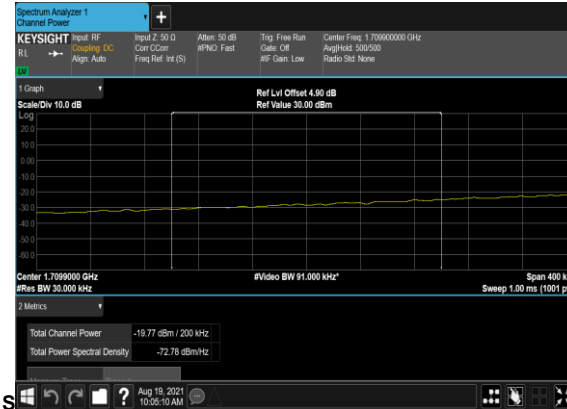
B7_N66(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



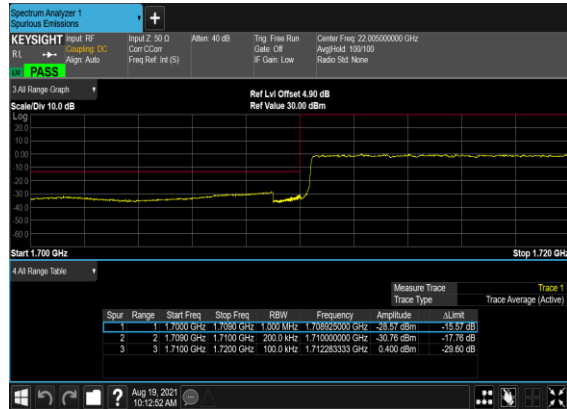
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PAS



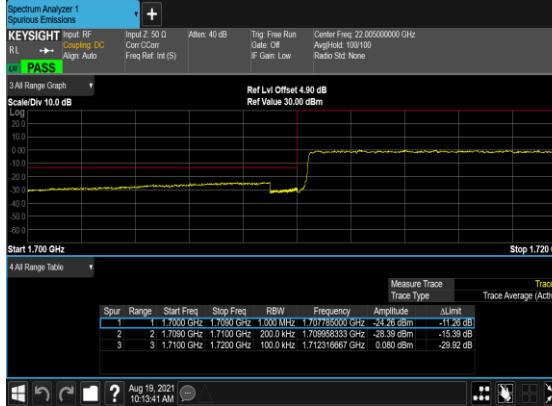
B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



B7_N66(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



B7_N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



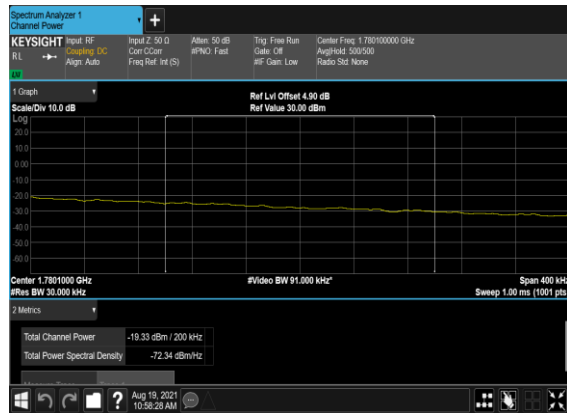
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



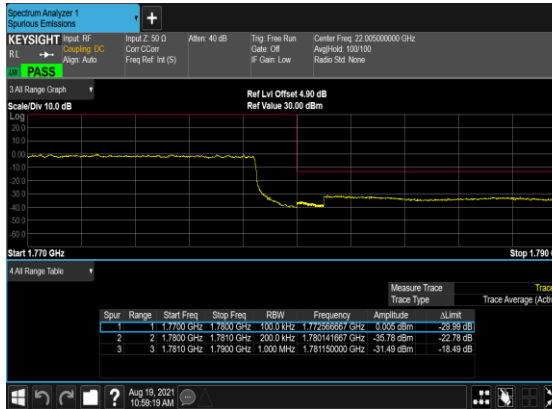
B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_CHP_P ASS



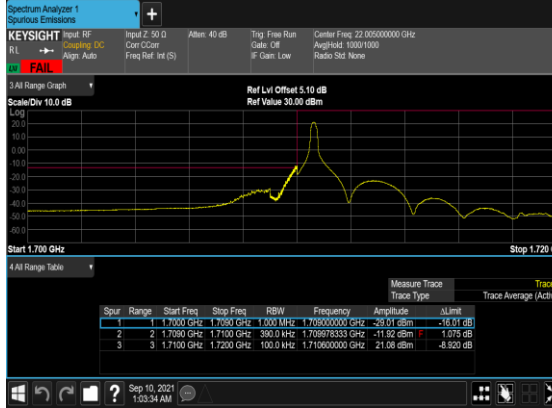
B7_N66(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



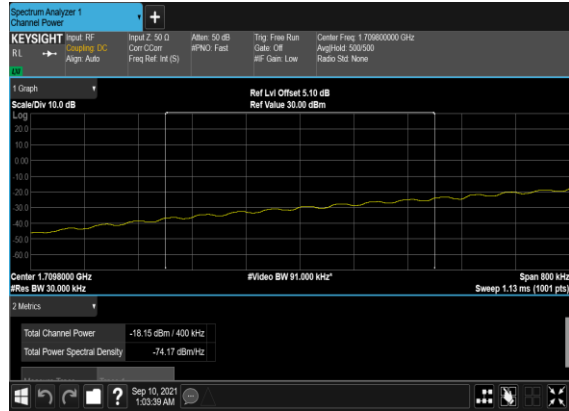
B7_N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



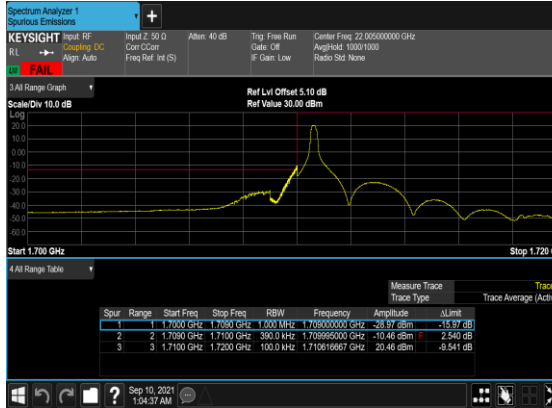
B7_N66(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



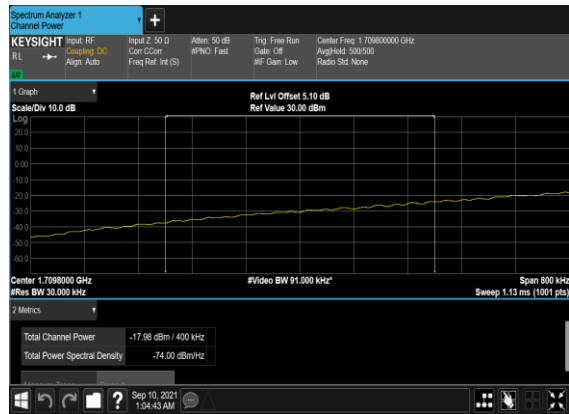
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OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_P
ASS



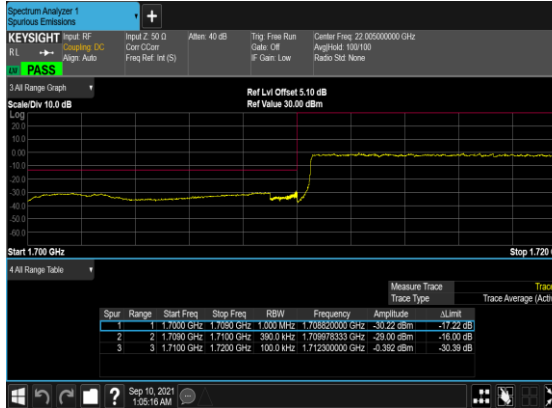
B7_N66(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



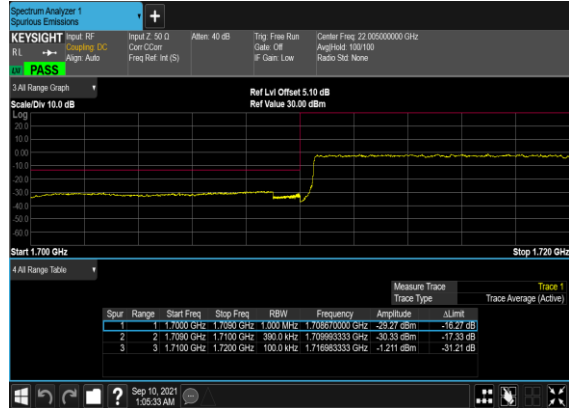
B7_N66(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_P
ASS



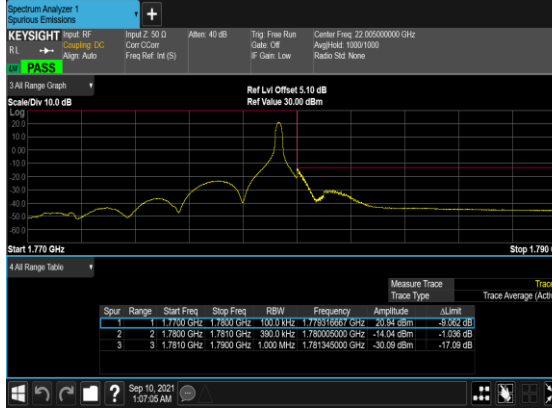
B7_N66(40M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



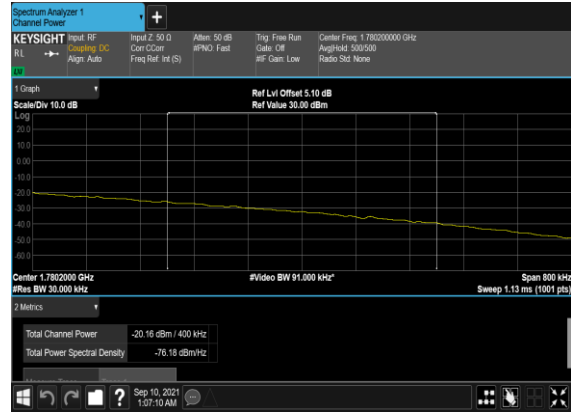
B7_N66(40M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



B7_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



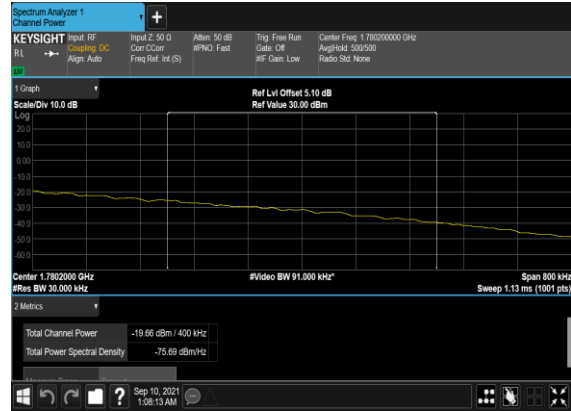
B7_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_CH_P ASS



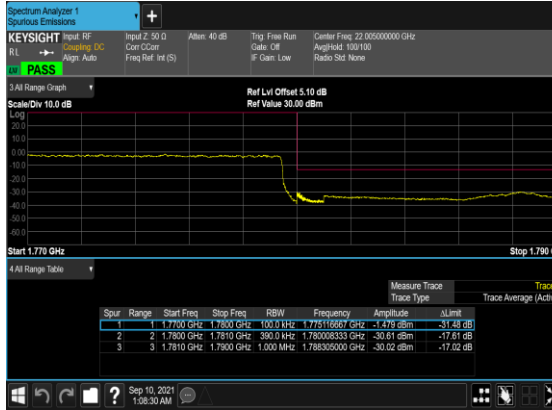
B7_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



B7_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_CH_P ASS



B7_N66(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



B7_N66(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

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

SA n5 / NR 20MHz / QPSK DFT-s-OFDM / ANT0(NR)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1654	-62.47	-13	-49.47	-69.44	1.58	10.70	H
	2482	-57.60	-13	-44.60	-65.85	2.10	12.50	H
	3312	-60.51	-13	-47.51	-69.40	2.86	13.90	H
	1654	-62.30	-13	-49.30	-69.27	1.58	10.70	V
	2482	-55.91	-13	-42.91	-64.16	2.10	12.50	V
	3312	-60.33	-13	-47.33	-69.22	2.86	13.90	V

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

EN-DC_7A_n5A / LTE 10MHz + NR 20MHz / QPSK / ANT4(LTE) & ANT0(NR)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1656	-65.08	-13	-52.08	-72.05	1.58	10.70	H
	2482.77	-61.03	-13	-48.03	-69.28	2.10	12.50	H
	3312	-60.04	-13	-47.04	-68.93	2.86	13.90	H
	1656	-64.55	-13	-51.55	-71.52	1.58	10.70	V
	2482.77	-59.19	-13	-46.19	-67.44	2.10	12.50	V
	3312	-59.95	-13	-46.95	-68.84	2.86	13.90	V

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

SA n7 / NR 20MHz / QPSK DFT-s-OFDM / ANT4(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	5052	-51.87	-25	-26.87	-62.08	3.03	13.24	H
	7576	-45.76	-25	-20.76	-55.21	3.56	13.01	H
	10100	-59.96	-25	-34.96	-69.48	3.92	13.44	H
	5052	-54.82	-25	-29.82	-65.03	3.03	13.24	V
	7576	-47.41	-25	-22.41	-56.86	3.56	13.01	V
	10100	-59.65	-25	-34.65	-69.17	3.92	13.44	V

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



EN-DC_5A_n7A / LTE 10MHz + NR 20MHz / QPSK / ANT4(LTE) & ANT2(NR)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052	-58.92	-25	-33.92	-69.13	3.03	13.24	H
	7588	-58.13	-25	-33.13	-67.58	3.56	13.01	H
	10060	-54.24	-25	-29.24	-63.76	3.92	13.44	H
	5052	-60.75	-25	-35.75	-70.96	3.03	13.24	V
	7588	-58.68	-25	-33.68	-68.13	3.56	13.01	V
	10060	-59.14	-25	-34.14	-68.66	3.92	13.44	V

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

SA n41 / NR 100MHz / QPSK DFT-s-OFDM / ANT4(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	5088	-60.17	-25	-35.17	-70.38	3.03	13.24	H
	7632	-51.87	-25	-26.87	-61.32	3.56	13.01	H
	10190	-57.97	-25	-32.97	-67.49	3.92	13.44	H
	5088	-60.96	-25	-35.96	-71.17	3.03	13.24	V
	7632	-47.91	-25	-22.91	-57.36	3.56	13.01	V
	10190	-59.66	-25	-34.66	-69.18	3.92	13.44	V

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

SA n66 / NR 40MHz / QPSK DFT-s-OFDM / ANT1(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	3471	-57.31	-13	-44.31	-68.05	2.60	13.34	H
	5208	-53.90	-13	-40.90	-64.41	3.01	13.52	H
	6948	-54.16	-13	-41.16	-64.36	3.27	13.47	H
	3471	-57.31	-13	-44.31	-68.05	2.60	13.34	V
	5208	-53.02	-13	-40.02	-63.53	3.01	13.52	V
	6948	-54.21	-13	-41.21	-64.41	3.27	13.47	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(LTE) & ANT4(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	3471	-57.65	-13	-44.65	-68.39	2.60	13.34	H
	5208	-53.15	-13	-40.15	-63.66	3.01	13.52	H
	6948	-53.59	-13	-40.59	-63.79	3.27	13.47	H
	3471	-57.99	-13	-44.99	-68.73	2.60	13.34	V
	5208	-53.28	-13	-40.28	-63.79	3.01	13.52	V
	6948	-54.66	-13	-41.66	-64.86	3.27	13.47	V

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

EN-DC_66A_n66A / LTE 10MHz + NR 20MHz / QPSK / ANT4(LTE) & ANT1(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	3471	-58.03	-13	-45.03	-68.77	2.60	13.34	H
	5208	-55.13	-13	-42.13	-65.64	3.01	13.52	H
	6948	-54.39	-13	-41.39	-64.59	3.27	13.47	H
	3471	-58.49	-13	-45.49	-69.23	2.60	13.34	V
	5208	-54.64	-13	-41.64	-65.15	3.01	13.52	V
	6948	-54.40	-13	-41.40	-64.60	3.27	13.47	V

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