B66_N41(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

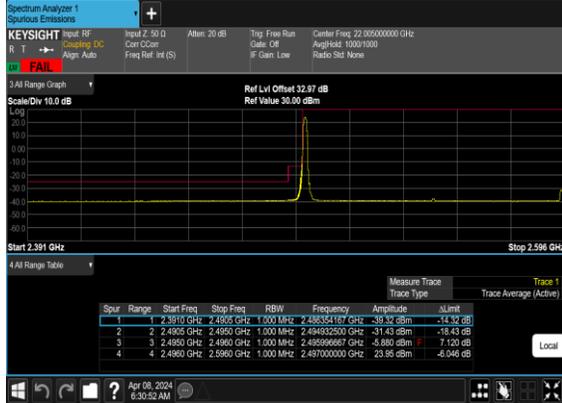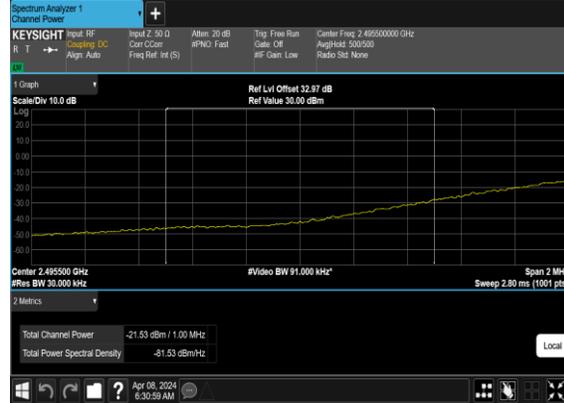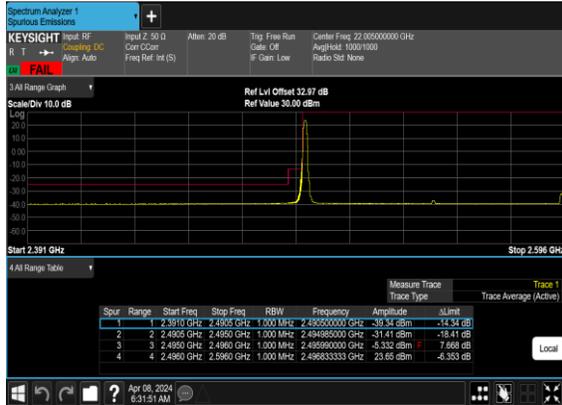## B66_N41(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_**CHP_PASS**

B66_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

B66_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_**CHP_PASS**

B66_N41(100M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

B66_N41(100M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

B66_N41(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

B66_N41(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_CHP_PASS

B66_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

B66_N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_CHP_PASS

B66_N41(100M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH
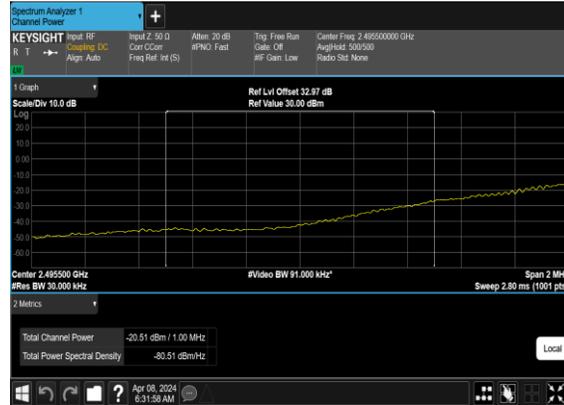

B66_N41(100M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

B66_N41(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

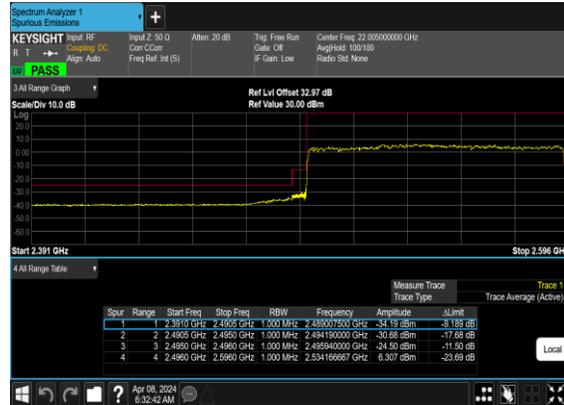## B66_N41(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

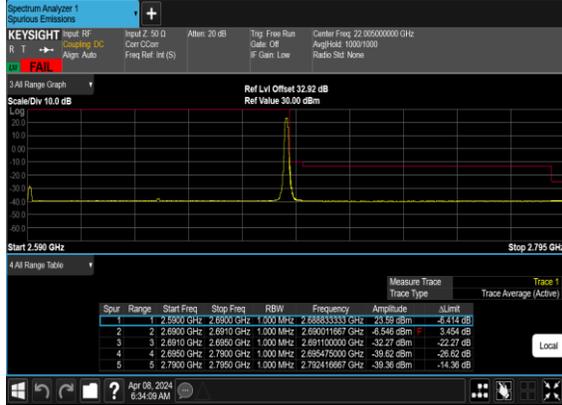## B66_N41(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

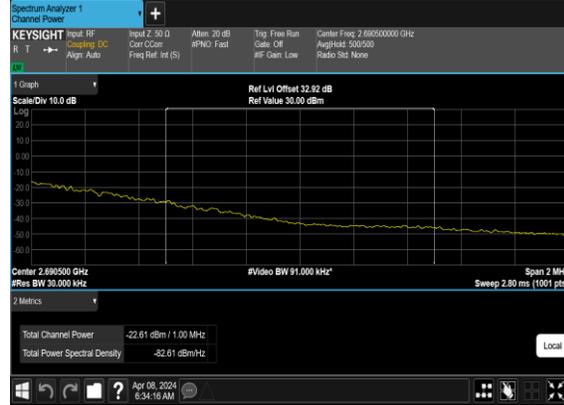## B66_N41(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

B66_N41(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

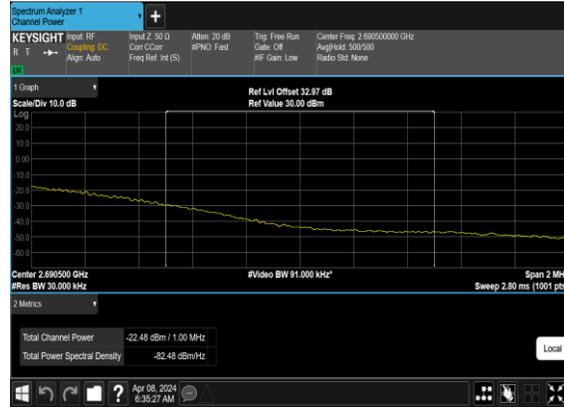## B66_N41(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

B66_N41(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 10 dB Trig: Free Run Center Freq 22.005000000 GHz
R T → Coupling: DC Corrections: Off Gate: Off AvgHold: 100/100
DR PASS Align: Off Freq Ref: Int (S) IF Gain: Low Radio Std: None

3 All Range Graph

Ref Lvl Offset 35.98 dB
Ref Value 30.00 dBm

Scale/Div 10.0 dB

Start 2.590 GHz   Stop 2.795 GHz

4 All Range Table

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5900 GHz	2.6900 GHz	1.000 MHz	2.686000000 GHz	13.68 dBm	-16.32 dB
2	2	2.6900 GHz	2.6910 GHz	200.0 kHz	2.690003333 GHz	-21.15 dBm	-11.15 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.691053333 GHz	-30.88 dBm	-20.88 dB
4	4	2.6950 GHz	2.7000 GHz	1.000 MHz	2.696366667 GHz	-33.56 dBm	-20.56 dB
5	5	2.7000 GHz	2.7950 GHz	1.000 MHz	2.700950000 GHz	-41.15 dBm	-16.15 dB

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B66_N41(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input: RF Input Z: 50 Ω Atten: 10 dB Trig: Free Run Center Freq 22.005000000 GHz
R T → Coupling: DC Corrections: Off Gate: Off AvgHold: 100/100
DR PASS Align: Off Freq Ref: Int (S) IF Gain: Low Radio Std: None

3 All Range Graph

Ref Lvl Offset 35.95 dB
Ref Value 30.00 dBm

Scale/Div 10.0 dB

Start 2.590 GHz   Stop 2.795 GHz

4 All Range Table

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.5900 GHz	2.6900 GHz	1.000 MHz	2.682833333 GHz	12.04 dBm	-17.96 dB
2	2	2.6900 GHz	2.6910 GHz	200.0 kHz	2.690018333 GHz	-23.50 dBm	-13.50 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.691013333 GHz	-27.51 dBm	-17.51 dB
4	4	2.6950 GHz	2.7000 GHz	1.000 MHz	2.695258333 GHz	-32.74 dBm	-19.74 dB
5	5	2.7000 GHz	2.7950 GHz	1.000 MHz	2.700158333 GHz	-37.07 dBm	-12.07 dB

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FR1 N66(ANT5)

Transmitter Conducted Output Power And EIRP, $(G_T - L_C)$=-2.1dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
66	15	40	346000	1730	DFT-s-OFDM PI/2 BPSK	108@54	24.43	22.33	0.1710
66	15	40	346000	1730	DFT-s-OFDM PI/2 BPSK	1@1	24.52	22.42	0.1746
66	15	40	346000	1730	DFT-s-OFDM PI/2 BPSK	1@214	24.47	22.37	0.1726
66	15	40	346000	1730	DFT-s-OFDM QPSK	108@54	24.55	22.45	0.1758
66	15	40	346000	1730	DFT-s-OFDM QPSK	1@1	24.61	22.51	0.1782
66	15	40	346000	1730	DFT-s-OFDM QPSK	1@214	24.47	22.37	0.1726
66	15	40	346000	1730	DFT-s-OFDM 16 QAM	108@54	23.58	21.48	0.1406
66	15	40	346000	1730	DFT-s-OFDM 16 QAM	1@1	23.81	21.71	0.1483
66	15	40	346000	1730	DFT-s-OFDM 16 QAM	1@214	23.73	21.63	0.1455
66	15	40	346000	1730	DFT-s-OFDM 64 QAM	108@54	22.14	20.04	0.1009
66	15	40	346000	1730	DFT-s-OFDM 64 QAM	1@1	22.26	20.16	0.1038
66	15	40	346000	1730	DFT-s-OFDM 64 QAM	1@214	22.19	20.09	0.1021
66	15	40	346000	1730	DFT-s-OFDM 256 QAM	108@54	20.1	18	0.0631
66	15	40	346000	1730	DFT-s-OFDM 256 QAM	1@1	19.85	17.75	0.0596
66	15	40	346000	1730	DFT-s-OFDM 256 QAM	1@214	19.81	17.71	0.0590
66	15	40	346000	1730	CP-OFDM QPSK	108@54	23.32	21.22	0.1324
66	15	40	346000	1730	CP-OFDM QPSK	1@1	23.43	21.33	0.1358
66	15	40	346000	1730	CP-OFDM QPSK	1@214	23.23	21.13	0.1297
66	15	40	349000	1745	DFT-s-OFDM PI/2 BPSK	108@54	24.59	22.49	0.1774
66	15	40	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	24.44	22.34	0.1714
66	15	40	349000	1745	DFT-s-OFDM PI/2 BPSK	1@214	24.34	22.24	0.1675
66	15	40	349000	1745	DFT-s-OFDM QPSK	108@54	24.34	22.24	0.1675
66	15	40	349000	1745	DFT-s-OFDM QPSK	1@1	24.57	22.47	0.1766
66	15	40	349000	1745	DFT-s-OFDM QPSK	1@214	24.41	22.31	0.1702
66	15	40	349000	1745	DFT-s-OFDM 16 QAM	108@54	23.42	21.32	0.1355
66	15	40	349000	1745	DFT-s-OFDM 16 QAM	1@1	23.63	21.53	0.1422
66	15	40	349000	1745	DFT-s-OFDM 16 QAM	1@214	23.63	21.53	0.1422
66	15	40	349000	1745	DFT-s-OFDM 64 QAM	108@54	22.04	19.94	0.0986
66	15	40	349000	1745	DFT-s-OFDM 64 QAM	1@1	22.06	19.96	0.0991
66	15	40	349000	1745	DFT-s-OFDM 64 QAM	1@214	22.07	19.97	0.0993
66	15	40	349000	1745	DFT-s-OFDM 256 QAM	108@54	20.23	18.13	0.0650
66	15	40	349000	1745	DFT-s-OFDM 256 QAM	1@1	20.32	18.22	0.0664
66	15	40	349000	1745	DFT-s-OFDM 256 QAM	1@214	20.03	17.93	0.0621
66	15	40	349000	1745	CP-OFDM QPSK	108@54	23.38	21.28	0.1343
66	15	40	349000	1745	CP-OFDM QPSK	1@1	23.64	21.54	0.1426
66	15	40	349000	1745	CP-OFDM QPSK	1@214	23.41	21.31	0.1352
66	15	40	352000	1760	DFT-s-OFDM PI/2 BPSK	108@54	24.90	22.8	0.1905
66	15	40	352000	1760	DFT-s-OFDM PI/2 BPSK	1@1	24.47	22.37	0.1726

66	15	40	352000	1760	DFT-s-OFDM PI/2 BPSK	1@214	24.53	22.43	0.1750
66	15	40	352000	1760	DFT-s-OFDM QPSK	108@54	24.57	22.47	0.1766
66	15	40	352000	1760	DFT-s-OFDM QPSK	1@1	24.58	22.48	0.1770
66	15	40	352000	1760	DFT-s-OFDM QPSK	1@214	24.6	22.5	0.1778
66	15	40	352000	1760	DFT-s-OFDM 16 QAM	108@54	23.63	21.53	0.1422
66	15	40	352000	1760	DFT-s-OFDM 16 QAM	1@1	23.72	21.62	0.1452
66	15	40	352000	1760	DFT-s-OFDM 16 QAM	1@214	23.76	21.66	0.1466
66	15	40	352000	1760	DFT-s-OFDM 64 QAM	108@54	22.25	20.15	0.1035
66	15	40	352000	1760	DFT-s-OFDM 64 QAM	1@1	22.23	20.13	0.1030
66	15	40	352000	1760	DFT-s-OFDM 64 QAM	1@214	22.32	20.22	0.1052
66	15	40	352000	1760	DFT-s-OFDM 256 QAM	108@54	20.16	18.06	0.0640
66	15	40	352000	1760	DFT-s-OFDM 256 QAM	1@1	19.86	17.76	0.0597
66	15	40	352000	1760	DFT-s-OFDM 256 QAM	1@214	19.97	17.87	0.0612
66	15	40	352000	1760	CP-OFDM QPSK	108@54	23.22	21.12	0.1294
66	15	40	352000	1760	CP-OFDM QPSK	1@1	23.29	21.19	0.1315
66	15	40	352000	1760	CP-OFDM QPSK	1@214	23.34	21.24	0.1330
66	15	5	342500	1712.5	DFT-s-OFDM PI/2 BPSK	1@1	24.41	22.31	0.1702
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@1	24.36	22.26	0.1683
66	15	5	342500	1712.5	DFT-s-OFDM 16 QAM	1@1	23.6	21.5	0.1413
66	15	5	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	24.35	22.25	0.1679
66	15	5	349000	1745	DFT-s-OFDM QPSK	1@1	24.39	22.29	0.1694
66	15	5	349000	1745	DFT-s-OFDM 16 QAM	1@1	23.64	21.54	0.1426
66	15	5	355500	1777.5	DFT-s-OFDM PI/2 BPSK	1@1	24.34	22.24	0.1675
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@1	24.31	22.21	0.1663
66	15	5	355500	1777.5	DFT-s-OFDM 16 QAM	1@1	23.66	21.56	0.1432
66	15	10	343000	1715	DFT-s-OFDM PI/2 BPSK	1@1	24.56	22.46	0.1762
66	15	10	343000	1715	DFT-s-OFDM QPSK	1@1	24.58	22.48	0.1770
66	15	10	343000	1715	DFT-s-OFDM 16 QAM	1@1	23.72	21.62	0.1452
66	15	10	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	24.43	22.33	0.1710
66	15	10	349000	1745	DFT-s-OFDM QPSK	1@1	24.43	22.33	0.1710
66	15	10	349000	1745	DFT-s-OFDM 16 QAM	1@1	23.69	21.59	0.1442
66	15	10	355000	1775	DFT-s-OFDM PI/2 BPSK	1@1	24.53	22.43	0.1750
66	15	10	355000	1775	DFT-s-OFDM QPSK	1@1	24.43	22.33	0.1710
66	15	10	355000	1775	DFT-s-OFDM 16 QAM	1@1	23.7	21.6	0.1445
66	15	15	343500	1717.5	DFT-s-OFDM PI/2 BPSK	1@1	24.64	22.54	0.1795
66	15	15	343500	1717.5	DFT-s-OFDM QPSK	1@1	24.49	22.39	0.1734
66	15	15	343500	1717.5	DFT-s-OFDM 16 QAM	1@1	23.71	21.61	0.1449
66	15	15	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	24.46	22.36	0.1722
66	15	15	349000	1745	DFT-s-OFDM QPSK	1@1	24.45	22.35	0.1718
66	15	15	349000	1745	DFT-s-OFDM 16 QAM	1@1	23.6	21.5	0.1413
66	15	15	354500	1772.5	DFT-s-OFDM PI/2 BPSK	1@1	24.47	22.37	0.1726
66	15	15	354500	1772.5	DFT-s-OFDM QPSK	1@1	24.5	22.4	0.1738
66	15	15	354500	1772.5	DFT-s-OFDM 16 QAM	1@1	23.59	21.49	0.1409
66	15	20	344000	1720	DFT-s-OFDM PI/2 BPSK	1@1	24.55	22.45	0.1758
66	15	20	344000	1720	DFT-s-OFDM QPSK	1@1	24.4	22.3	0.1698
66	15	20	344000	1720	DFT-s-OFDM 16 QAM	1@1	23.62	21.52	0.1419

66	15	20	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	24.32	22.22	0.1667
66	15	20	349000	1745	DFT-s-OFDM QPSK	1@1	24.27	22.17	0.1648
66	15	20	349000	1745	DFT-s-OFDM 16 QAM	1@1	23.61	21.51	0.1416
66	15	20	354000	1770	DFT-s-OFDM PI/2 BPSK	1@1	24.27	22.17	0.1648
66	15	20	354000	1770	DFT-s-OFDM QPSK	1@1	24.35	22.25	0.1679
66	15	20	354000	1770	DFT-s-OFDM 16 QAM	1@1	23.54	21.44	0.1393
66	15	25	344500	1722.5	DFT-s-OFDM PI/2 BPSK	1@1	24.83	22.73	0.1875
66	15	25	344500	1722.5	DFT-s-OFDM QPSK	1@1	24.78	22.68	0.1854
66	15	25	344500	1722.5	DFT-s-OFDM 16 QAM	1@1	24.05	21.95	0.1567
66	15	25	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	24.79	22.69	0.1858
66	15	25	349000	1745	DFT-s-OFDM QPSK	1@1	24.69	22.59	0.1816
66	15	25	349000	1745	DFT-s-OFDM 16 QAM	1@1	23.98	21.88	0.1542
66	15	25	353500	1767.5	DFT-s-OFDM PI/2 BPSK	1@1	24.76	22.66	0.1845
66	15	25	353500	1767.5	DFT-s-OFDM QPSK	1@1	24.68	22.58	0.1811
66	15	25	353500	1767.5	DFT-s-OFDM 16 QAM	1@1	23.96	21.86	0.1535
66	15	30	345000	1725	DFT-s-OFDM PI/2 BPSK	1@1	24.85	22.75	0.1884
66	15	30	345000	1725	DFT-s-OFDM QPSK	1@1	24.84	22.74	0.1879
66	15	30	345000	1725	DFT-s-OFDM 16 QAM	1@1	24.05	21.95	0.1567
66	15	30	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	24.7	22.6	0.1820
66	15	30	349000	1745	DFT-s-OFDM QPSK	1@1	24.74	22.64	0.1837
66	15	30	349000	1745	DFT-s-OFDM 16 QAM	1@1	23.91	21.81	0.1517
66	15	30	353000	1765	DFT-s-OFDM PI/2 BPSK	1@1	24.73	22.63	0.1832
66	15	30	353000	1765	DFT-s-OFDM QPSK	1@1	24.65	22.55	0.1799
66	15	30	353000	1765	DFT-s-OFDM 16 QAM	1@1	23.93	21.83	0.1524
66	15	35	345500	1727.5	DFT-s-OFDM PI/2 BPSK	1@1	24.78	22.68	0.1854
66	15	35	345500	1727.5	DFT-s-OFDM QPSK	1@1	24.65	22.55	0.1799
66	15	35	345500	1727.5	DFT-s-OFDM 16 QAM	1@1	23.66	21.56	0.1432
66	15	35	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	24.88	22.78	0.1897
66	15	35	349000	1745	DFT-s-OFDM QPSK	1@1	24.77	22.67	0.1849
66	15	35	349000	1745	DFT-s-OFDM 16 QAM	1@1	24.1	22	0.1585
66	15	35	352500	1762.5	DFT-s-OFDM PI/2 BPSK	1@1	24.84	22.74	0.1879
66	15	35	352500	1762.5	DFT-s-OFDM QPSK	1@1	24.72	22.62	0.1828
66	15	35	352500	1762.5	DFT-s-OFDM 16 QAM	1@1	23.74	21.64	0.1459

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.00120	**PASS**	NV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.00363	**PASS**	LV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.00101	**PASS**	HV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.00201	**PASS**	-30℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	-0.00016	**PASS**	-20℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.00122	**PASS**	-10℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.00019	**PASS**	0℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	-0.00456	**PASS**	10℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.00639	**PASS**	20℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.00104	**PASS**	30℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.00406	**PASS**	40℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.00359	**PASS**	50℃

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
66	15	20	349000	1745.0	DFT-s-OFDM PI/2 BPSK	100@0	3.75	13	**PASS**
66	15	20	349000	1745.0	DFT-s-OFDM PI/2 BPSK	1@0	3.75	13	**PASS**
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	5.05	13	**PASS**
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@0	5.49	13	**PASS**

N66(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

Average Power	
	25.98 dBm
	49.54 % at 0 dB
10.0 %	1.74 dB
1.0 %	3.33 dB
0.1 %	3.75 dB
0.01 %	3.92 dB
0.001 %	4.01 dB
0.0001 %	4.06 dB
Peak	4.13 dB
	30.11 dBm

N66(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

Average Power	
	25.94 dBm
	50.89 % at 0 dB
10.0 %	2.06 dB
1.0 %	3.15 dB
0.1 %	3.75 dB
0.01 %	3.83 dB
0.001 %	3.88 dB
0.0001 %	3.89 dB
Peak	3.89 dB
	29.83 dBm

N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

Average Power	
	25.42 dBm
	48.60 % at 0 dB
10.0 %	2.22 dB
1.0 %	4.24 dB
0.1 %	5.05 dB
0.01 %	5.25 dB
0.001 %	5.40 dB
0.0001 %	5.53 dB
Peak	5.54 dB
	30.96 dBm

N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

Average Power	
	25.43 dBm
	46.12 % at 0 dB
10.0 %	2.54 dB
1.0 %	4.65 dB
0.1 %	5.49 dB
0.01 %	5.53 dB
0.001 %	5.55 dB
0.0001 %	5.56 dB
Peak	5.56 dB
	30.99 dBm
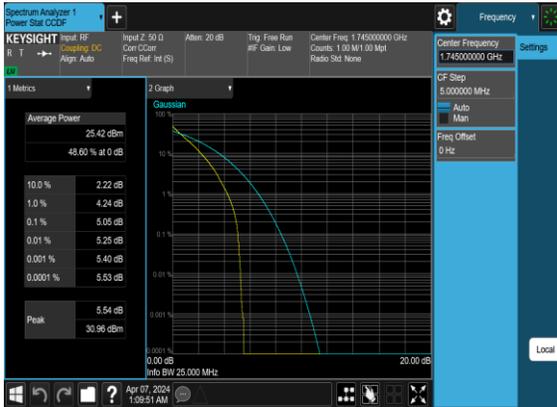
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
66	15	5	349000	1745.0	CP-OFDM QPSK	25@0	4.4658	4.975
66	15	5	349000	1745.0	CP-OFDM 16 QAM	25@0	4.4822	5.206
66	15	5	349000	1745.0	CP-OFDM 64 QAM	25@0	4.466	4.909
66	15	5	349000	1745.0	CP-OFDM 256 QAM	25@0	4.4733	5.072
66	15	10	349000	1745.0	CP-OFDM QPSK	52@0	9.2864	10.08
66	15	10	349000	1745.0	CP-OFDM 16 QAM	52@0	9.2976	9.955
66	15	10	349000	1745.0	CP-OFDM 64 QAM	52@0	9.2606	9.887
66	15	10	349000	1745.0	CP-OFDM 256 QAM	52@0	9.2824	9.944
66	15	15	349000	1745.0	CP-OFDM QPSK	79@0	14.09	14.75
66	15	15	349000	1745.0	CP-OFDM 16 QAM	79@0	14.108	14.97
66	15	15	349000	1745.0	CP-OFDM 64 QAM	79@0	14.078	14.88
66	15	15	349000	1745.0	CP-OFDM 256 QAM	79@0	14.093	14.91
66	15	20	349000	1745.0	CP-OFDM QPSK	106@0	18.891	20.01
66	15	20	349000	1745.0	CP-OFDM 16 QAM	106@0	18.88	19.71
66	15	20	349000	1745.0	CP-OFDM 64 QAM	106@0	18.884	19.72
66	15	20	349000	1745.0	CP-OFDM 256 QAM	106@0	18.882	19.64
66	15	25	349000	1745.0	CP-OFDM QPSK	133@0	23.783	24.89
66	15	25	349000	1745.0	CP-OFDM 16 QAM	133@0	23.726	24.92
66	15	25	349000	1745.0	CP-OFDM 64 QAM	133@0	23.77	24.75
66	15	25	349000	1745.0	CP-OFDM 256 QAM	133@0	23.771	24.75
66	15	30	349000	1745.0	CP-OFDM QPSK	160@0	28.558	29.73
66	15	30	349000	1745.0	CP-OFDM 16 QAM	160@0	28.589	29.79
66	15	30	349000	1745.0	CP-OFDM 64 QAM	160@0	28.574	29.56
66	15	30	349000	1745.0	CP-OFDM 256 QAM	160@0	28.602	29.62
66	15	40	349000	1745.0	CP-OFDM QPSK	216@0	38.6	39.92
66	15	40	349000	1745.0	CP-OFDM 16 QAM	216@0	38.542	40.06

66	15	40	349000	1745.0	CP-OFDM 64 QAM	216@0	38.553	39.94
66	15	40	349000	1745.0	CP-OFDM 256 QAM	216@0	38.541	39.87
66	15	35	349000	1745.0	CP-OFDM QPSK	188@0	33.526	34.7
66	15	35	349000	1745.0	CP-OFDM 16 QAM	188@0	33.539	34.77
66	15	35	349000	1745.0	CP-OFDM 64 QAM	188@0	33.549	34.83
66	15	35	349000	1745.0	CP-OFDM 256 QAM	188@0	33.51	34.63

N66(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
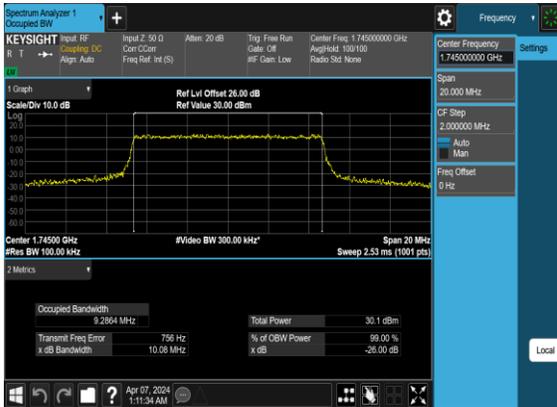

N66(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N66(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

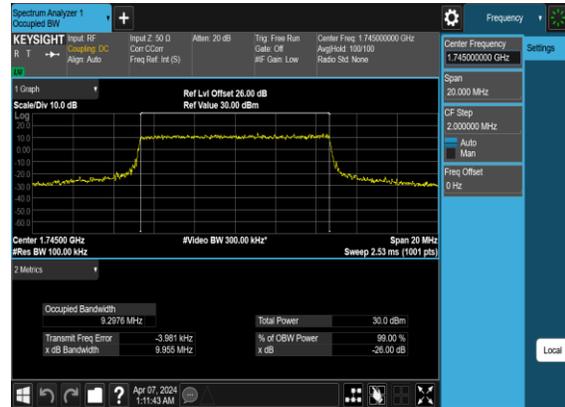## N66(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N66(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N66(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N66(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N66(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N66(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N66(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N66(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH
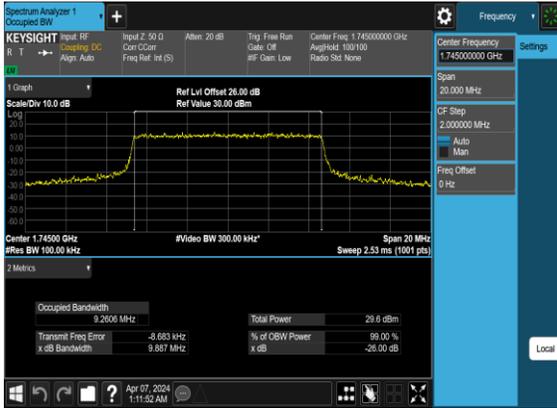

N66(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N66(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

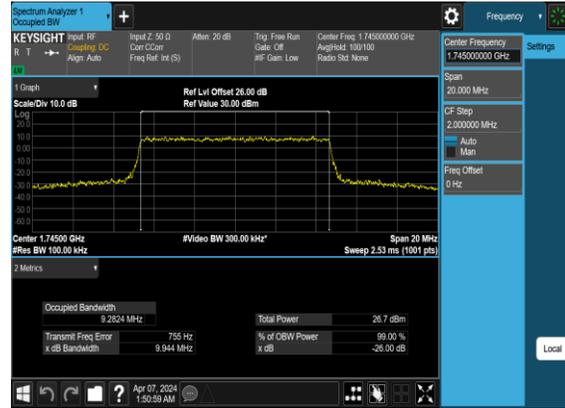## N66(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N66(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N66(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N66(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N66(25M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N66(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N66(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

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(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
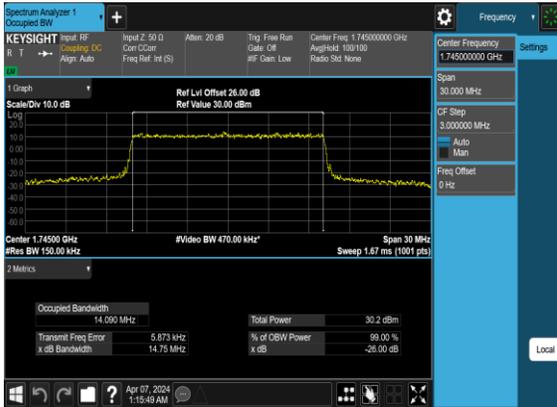

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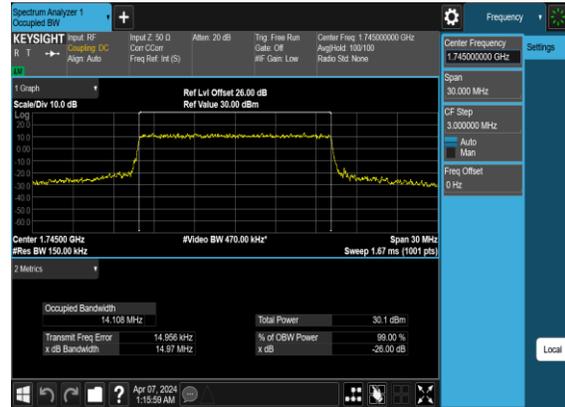

N66(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH
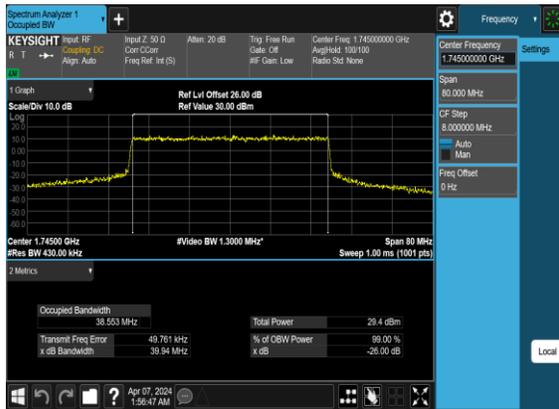
N66(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N66(35M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
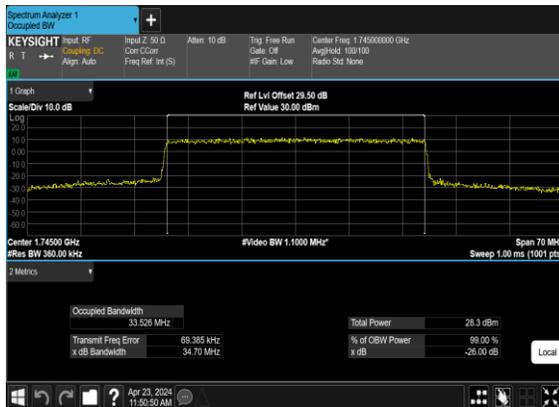
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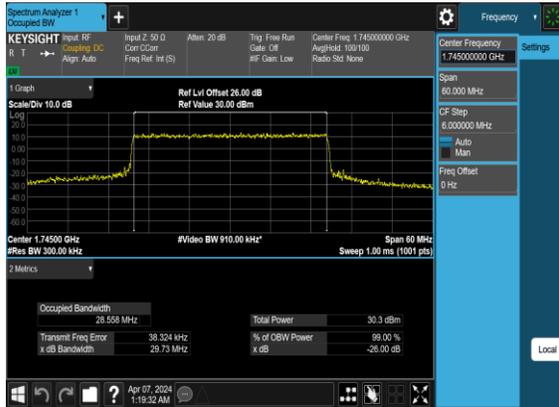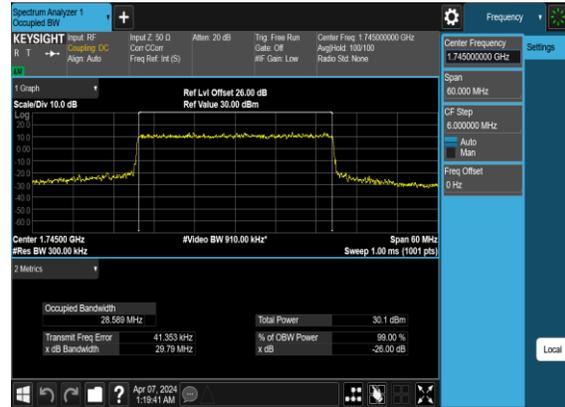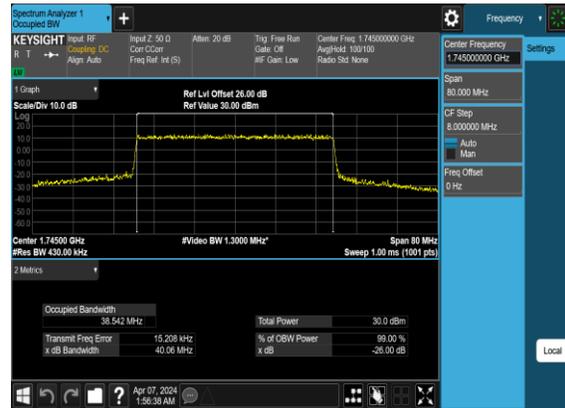
N66(35M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT
R T

Input: RF   Input Z: 50 Ω   Atten: 10 dB   Trig: Free Run   Center Freq: 1.745000000 GHz
Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log

Ref Lvl Offset 29.50 dB
Ref Value 30.00 dBm

Center 1.74500 GHz   #Video BW 1.1000 MHz*   Span 70 MHz
#Res BW 360.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics

Occupied Bandwidth			
33.549 MHz			
Total Power		27.6 dBm	
Transmit Freq Error	-10.031 kHz		
x dB Bandwidth	34.83 MHz		
% of OBW Power	99.00 %		
x dB	-26.00 dB		

Apr 23, 2024
11:51:09 AM

Local

N66(35M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW

KEYSIGHT
R T

Input: RF   Input Z: 50 Ω   Atten: 10 dB   Trig: Free Run   Center Freq: 1.745000000 GHz
Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB
Log

Ref Lvl Offset 29.50 dB
Ref Value 30.00 dBm

Center 1.74500 GHz   #Video BW 1.1000 MHz*   Span 70 MHz
#Res BW 360.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics

Occupied Bandwidth			
33.510 MHz			
Total Power		25.3 dBm	
Transmit Freq Error	6.366 kHz		
x dB Bandwidth	34.83 MHz		
% of OBW Power	99.00 %		
x dB	-26.00 dB		

Apr 23, 2024
11:51:20 AM

Local

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	20	344000	1720.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	344000	1720.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	20	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	20	354000	1770.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	354000	1770.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@0	see graph	---

66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	40	346000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	40	346000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	40	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	40	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	40	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	40	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	40	352000	1760.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	40	352000	1760.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	40	352000	1760.0	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(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

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	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	20	344000	1720.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	20	344000	1720.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
66	15	20	354000	1770.0	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
66	15	20	354000	1770.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
66	15	40	346000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	40	346000	1730.0	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	216@0	see graph	**PASS**
66	15	40	352000	1760.0	DFT-s-OFDM BPSK	1@215	see graph	**PASS**
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@215	see graph	**PASS**
66	15	40	352000	1760.0	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	216@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(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N66(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

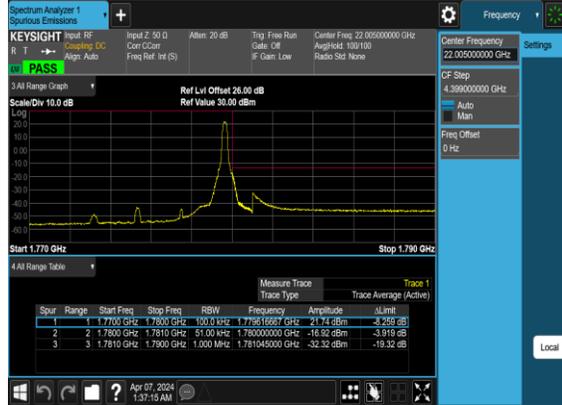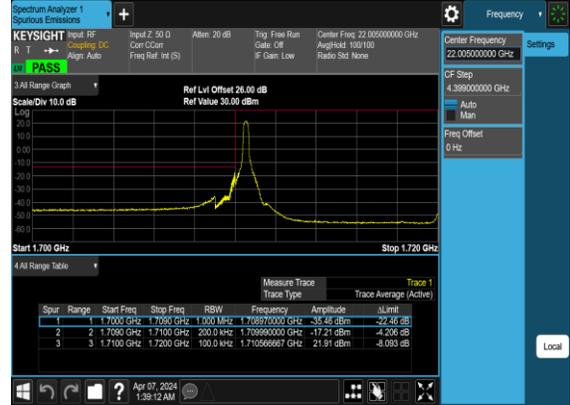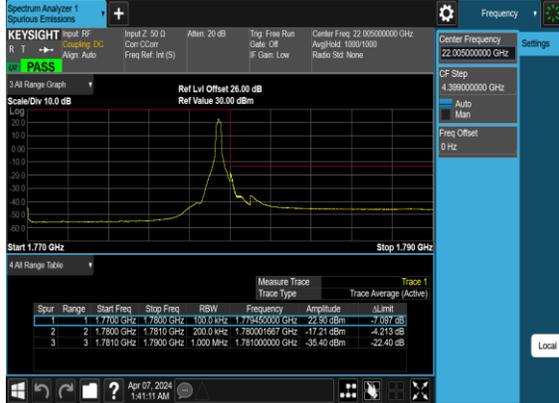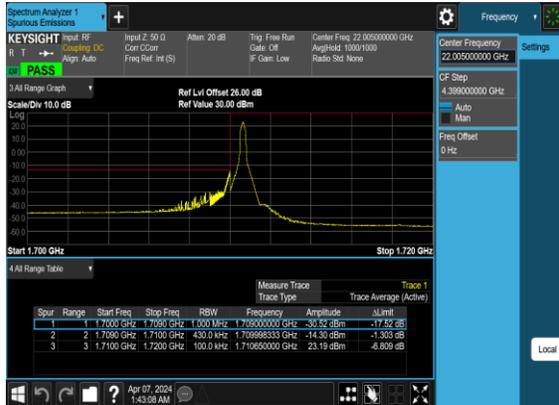## N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	1.7700 GHz	1.7800 GHz	100.0 kHz	1.779450000 GHz	-22.90 dBm	-7.097 dB
2	2	1.7800 GHz	1.7810 GHz	200.0 kHz	1.780001667 GHz	-17.21 dBm	-4.213 dB
3	3	1.7810 GHz	1.7900 GHz	1.000 MHz	1.781000000 GHz	-35.40 dBm	-22.40 dB

N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	1.7700 GHz	1.7800 GHz	100.0 kHz	1.779416667 GHz	-21.99 dBm	-8.413 dB
2	2	1.7800 GHz	1.7810 GHz	200.0 kHz	1.780000667 GHz	-17.61 dBm	-4.607 dB
3	3	1.7810 GHz	1.7900 GHz	1.000 MHz	1.781000000 GHz	-34.05 dBm	-21.05 dB

N66(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	1.7700 GHz	1.7800 GHz	100.0 kHz	1.771700000 GHz	2.971 dBm	-27.03 dB
2	2	1.7800 GHz	1.7810 GHz	200.0 kHz	1.780021667 GHz	-30.25 dBm	-17.25 dB
3	3	1.7810 GHz	1.7900 GHz	1.000 MHz	1.787270000 GHz	-28.26 dBm	-15.26 dB

N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	1.7700 GHz	1.7800 GHz	100.0 kHz	1.774766667 GHz	2.635 dBm	-27.36 dB
2	2	1.7800 GHz	1.7810 GHz	200.0 kHz	1.780248333 GHz	-29.33 dBm	-16.33 dB
3	3	1.7810 GHz	1.7900 GHz	1.000 MHz	1.781105000 GHz	-25.15 dBm	-12.15 dB

N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	1.7000 GHz	1.7090 GHz	1.000 MHz	1.709000000 GHz	-30.52 dBm	-17.52 dB
2	2	1.7090 GHz	1.7100 GHz	430.0 kHz	1.709998333 GHz	-14.30 dBm	-1.303 dB
3	3	1.7100 GHz	1.7200 GHz	100.0 kHz	1.710650000 GHz	23.19 dBm	-6.809 dB

N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	1.7000 GHz	1.7090 GHz	1.000 MHz	1.708790000 GHz	-27.90 dBm	-14.90 dB
2	2	1.7090 GHz	1.7100 GHz	430.0 kHz	1.709995000 GHz	-17.01 dBm	-4.009 dB
3	3	1.7100 GHz	1.7200 GHz	100.0 kHz	1.710600000 GHz	21.99 dBm	-8.015 dB