99% & 26dB Bandwidth

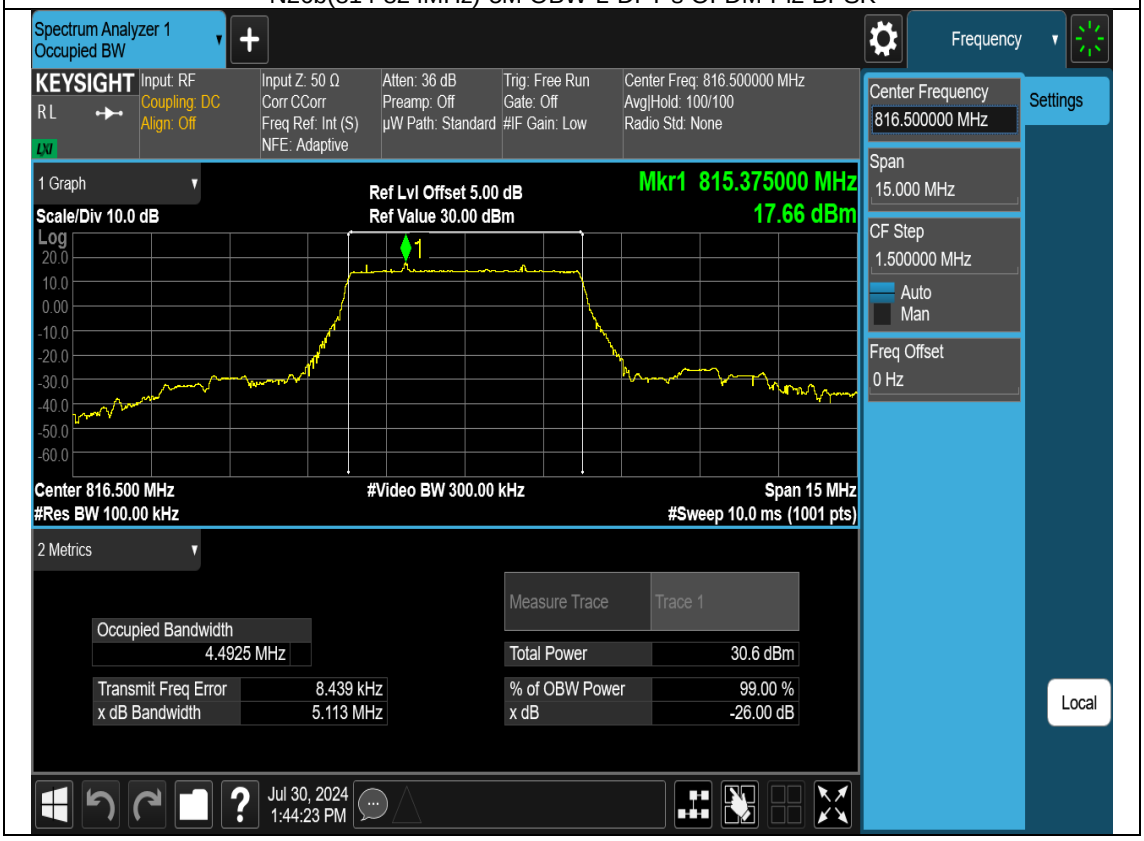
Test Result

5G NR N26b(814-824MHz) SCS=15kHz 5MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	4.49	5.11	/	Pass
CP-OFDM QPSK		Outer_Full	4.49	5.21	/	Pass
DFT-s-OFDM PI/2 BPSK	Mid	Outer_Full	4.52	5.09	/	Pass
CP-OFDM QPSK		Outer_Full	4.51	5.28	/	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.53	5.21	/	Pass
CP-OFDM QPSK		Outer_Full	4.5	5.27	/	Pass

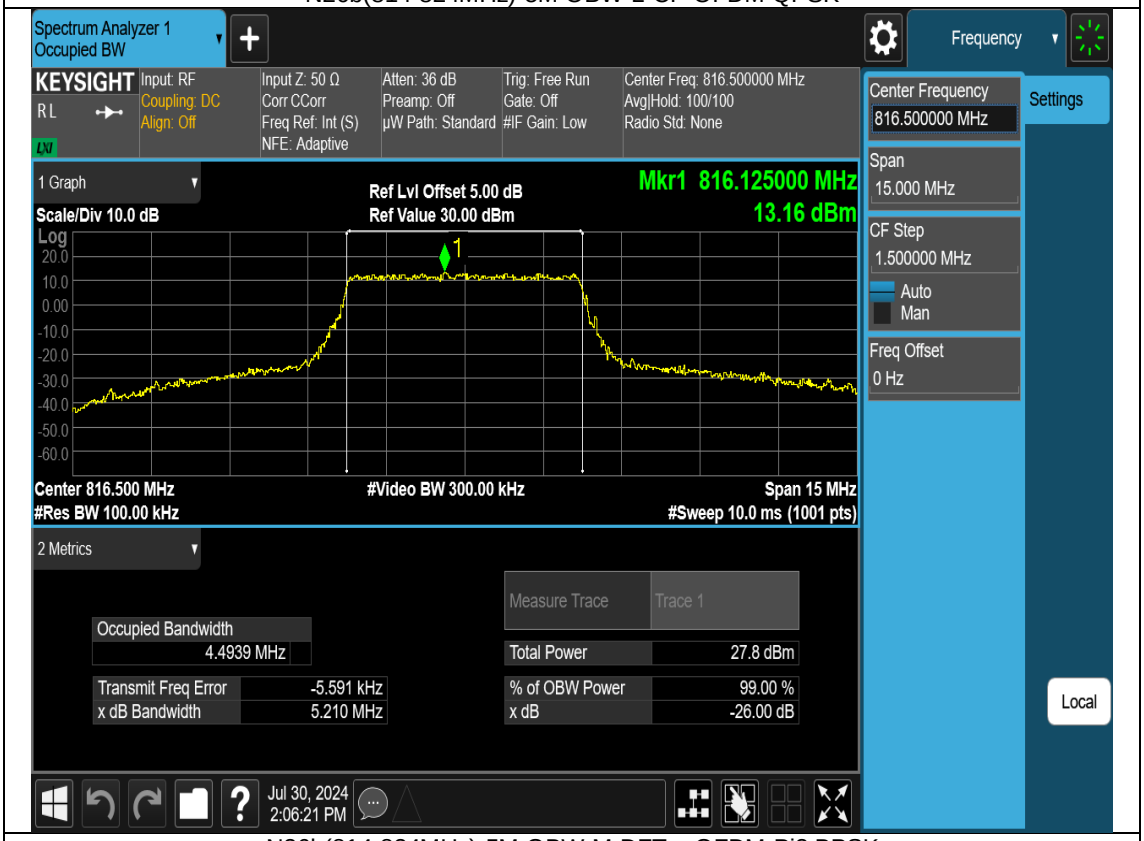
5G NR N26b(814-824MHz) SCS=15kHz 10MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Mid	Outer_Full	8.94	9.69	/	Pass
CP-OFDM QPSK		Outer_Full	9.3	10.22	/	Pass

Test Graph

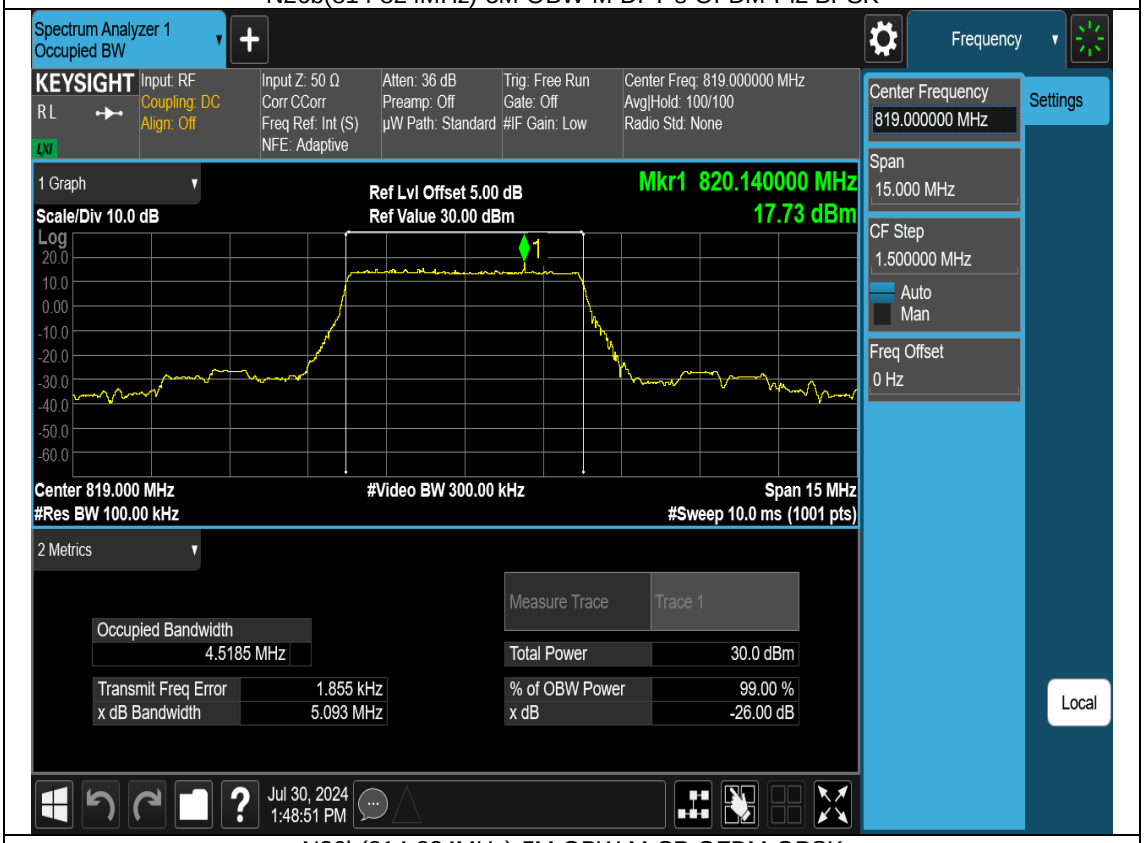
N26b(814-824MHz)-5M-OBW-L-DFT-s-OFDM-Pi2 BPSK



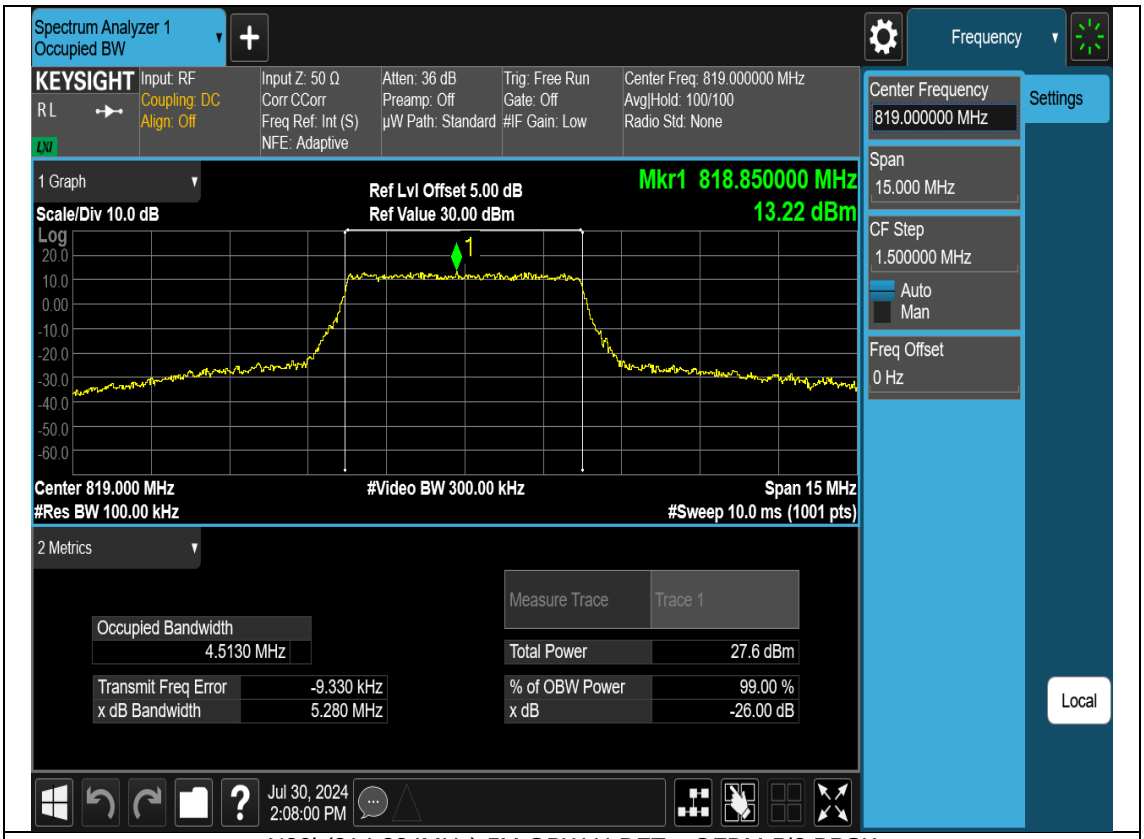
N26b(814-824MHz)-5M-OBW-L-CP-OFDM-QPSK



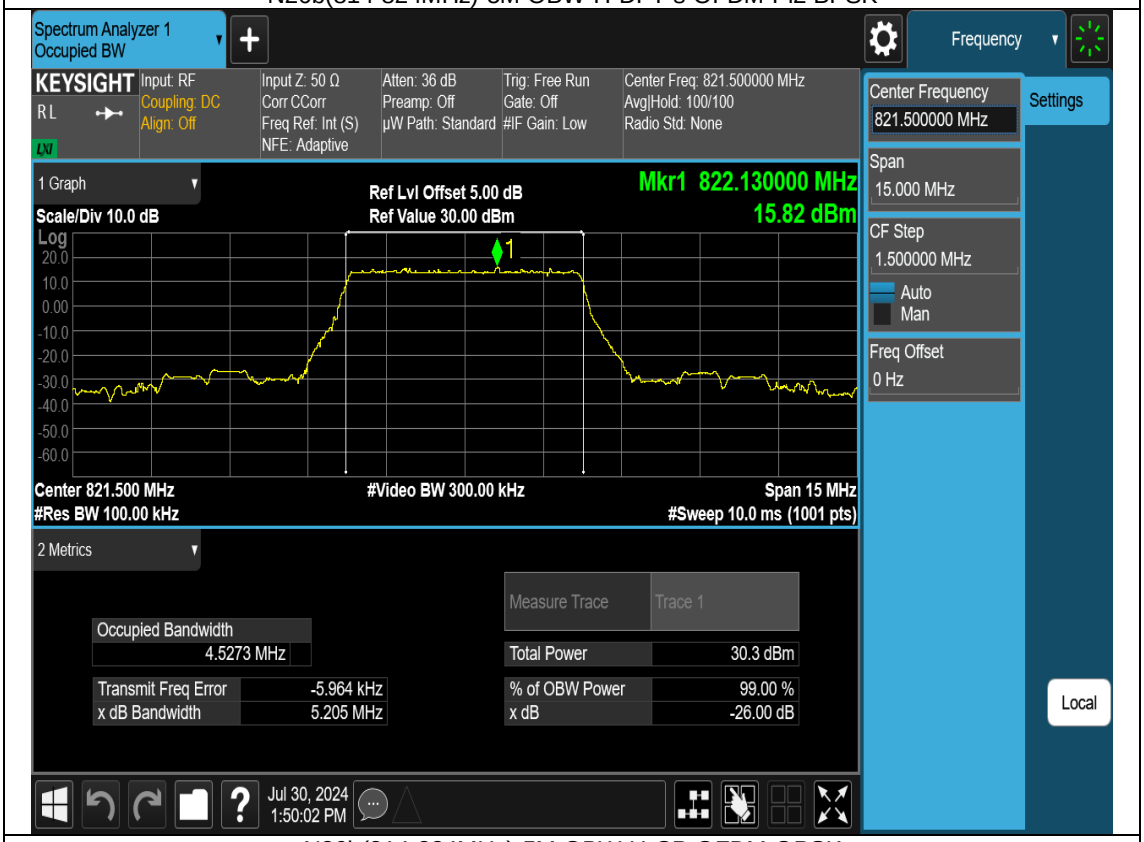
N26b(814-824MHz)-5M-OBW-M-DFT-s-OFDM-Pi2 BPSK



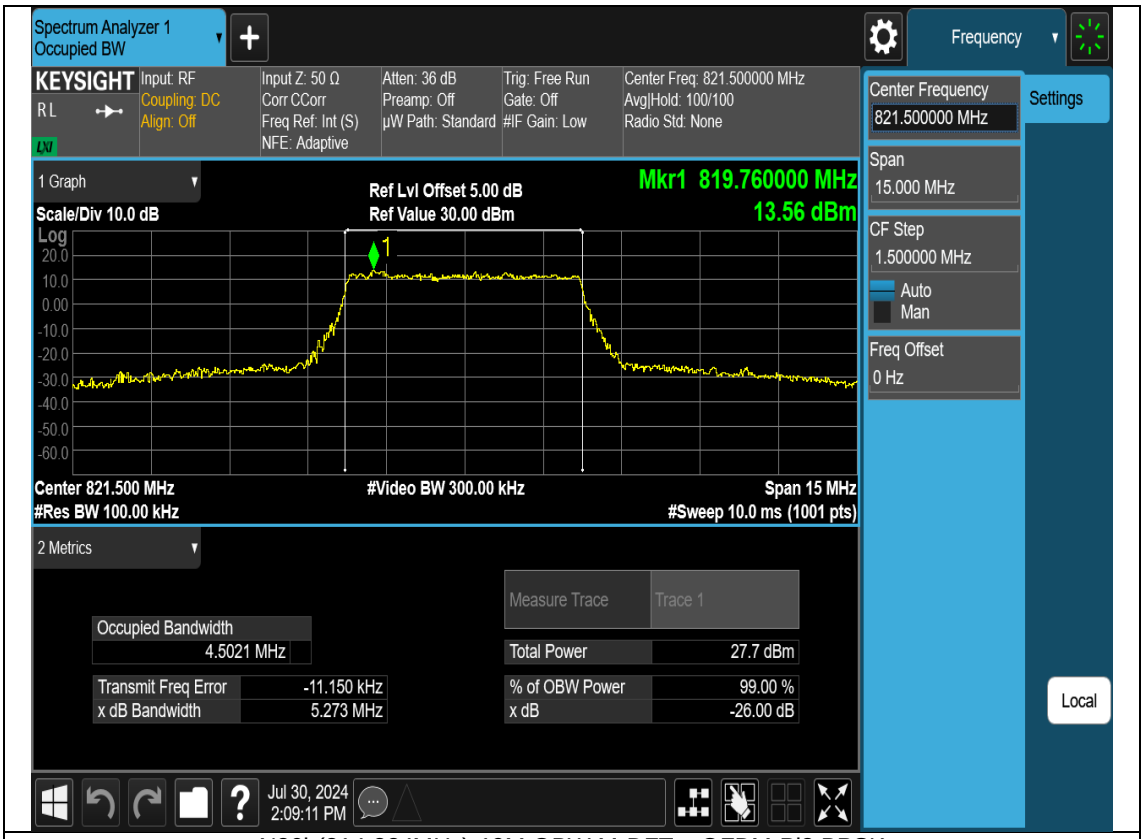
N26b(814-824MHz)-5M-OBW-M-CP-OFDM-QPSK



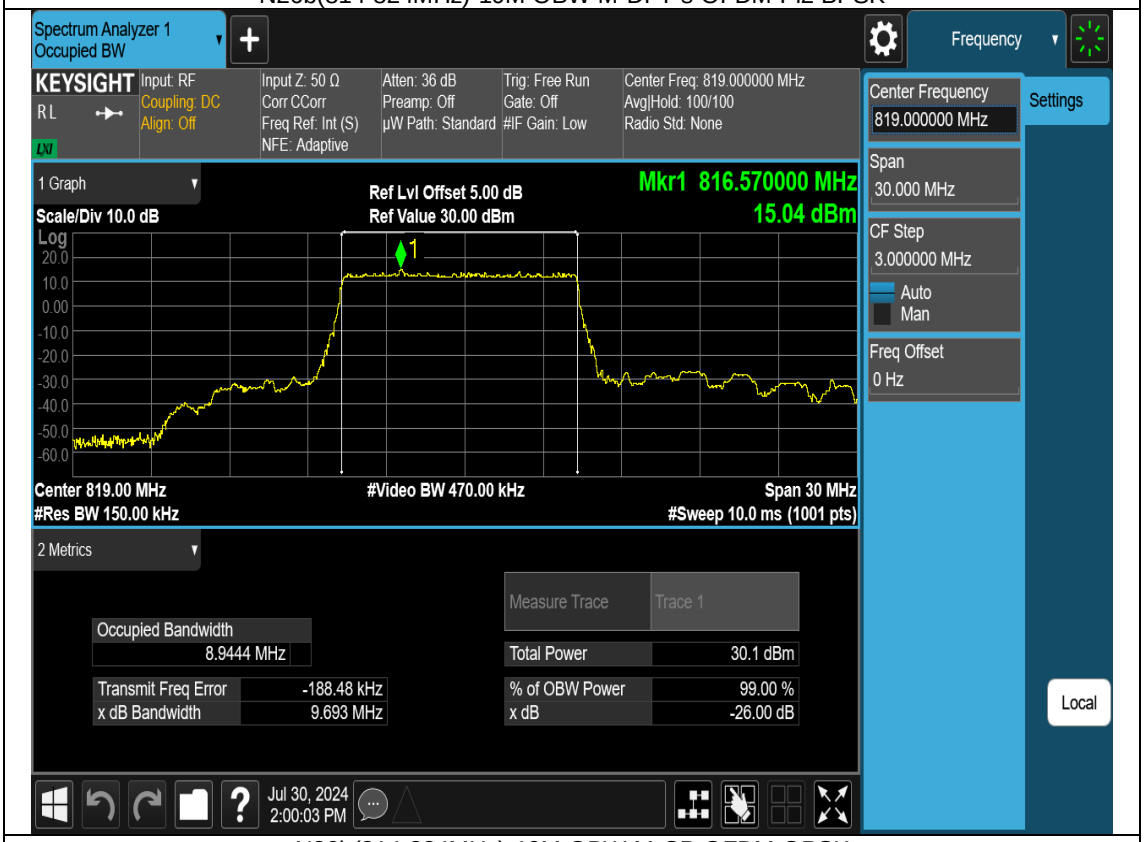
N26b(814-824MHz)-5M-OBW-H-DFT-s-OFDM-Pi2 BPSK



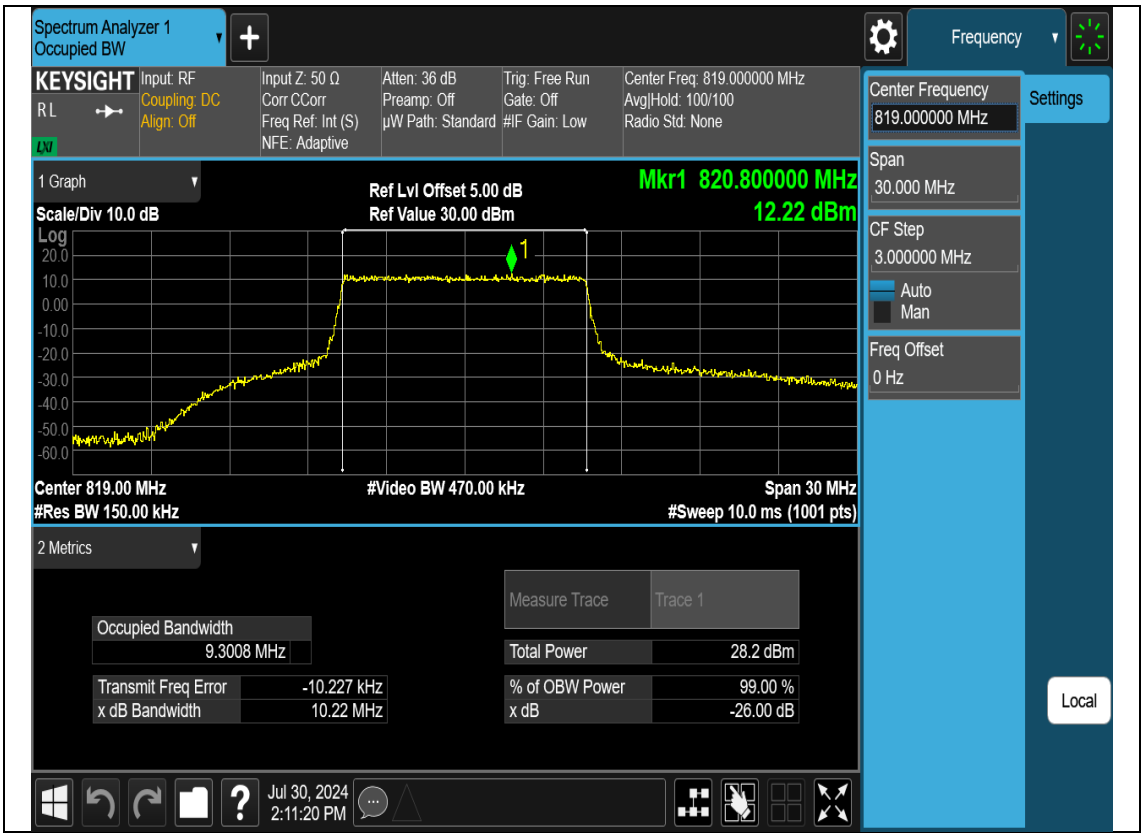
N26b(814-824MHz)-5M-OBW-H-CP-OFDM-QPSK



N26b(814-824MHz)-10M-OBW-M-DFT-s-OFDM-Pi2 BPSK



N26b(814-824MHz)-10M-OBW-M-CP-OFDM-QPSK


Spectrum Analyzer 1
Occupied BW
Frequency
KEYSIGHT
Input: RF
Coupling: DC
Align: Off
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
NFE: Adaptive
Atten: 36 dB
Preamp: Off
µW Path: Standard
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 819.000000 MHz
Avg|Hold: 100/100
Radio Std: None
1 Graph
Ref Lvl Offset 5.00 dB
Ref Value 30.00 dBm
Mkr1 820.800000 MHz
12.22 dBm
Scale/Div 10.0 dB
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 819.00 MHz
#Res BW 150.00 kHz
#Video BW 470.00 kHz
Span 30 MHz
#Sweep 10.0 ms (1001 pts)
2 Metrics
Occupied Bandwidth
9.3008 MHz
Transmit Freq Error -10.227 kHz
x dB Bandwidth 10.22 MHz
Measure Trace Trace 1
Total Power 28.2 dBm
% of OBW Power 99.00 %
x dB -26.00 dB
Center Frequency
819.000000 MHz
Span
30.000 MHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
Settings
Local
Jul 30, 2024
2:11:20 PM

Peak-Average Ratio

Test Result

5G NR N26b(814-824MHz) SCS=15kHz 5MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	4.41	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.82	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.47	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.83	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.45	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.04	<=13	Pass

5G NR N26b(814-824MHz) SCS=15kHz 10MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.13	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.88	<=13	Pass

Test Graph

N26b(814-824MHz)-5M-PAPR-L-DFT-s-OFDM-Pi2 BPSK-Outer_Full

N26b(814-824MHz)-5M-PAPR-L-CP-OFDM-QPSK-Outer_Full

N26b(814-824MHz)-5M-PAPR-M-DFT-s-OFDM-Pi2 BPSK-Outer_Full

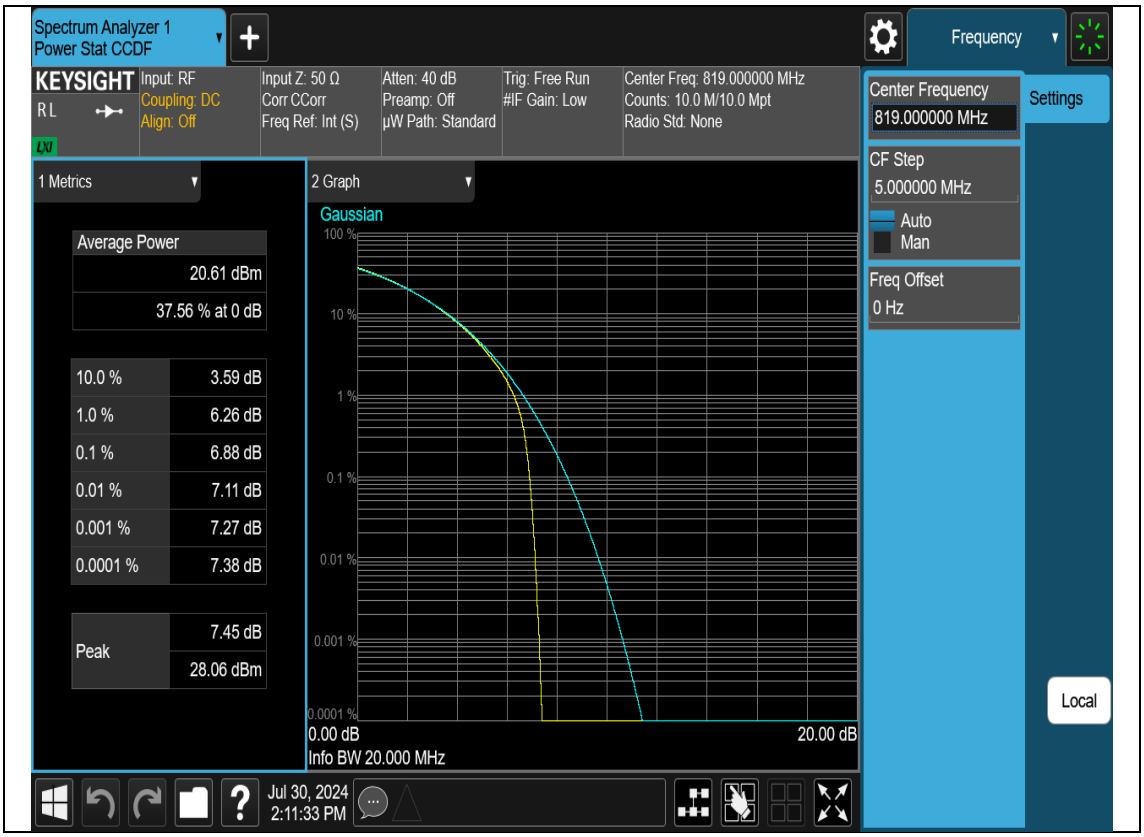
N26b(814-824MHz)-5M-PAPR-M-CP-OFDM-QPSK-Outer_Full

N26b(814-824MHz)-5M-PAPR-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full

N26b(814-824MHz)-5M-PAPR-H-CP-OFDM-QPSK-Outer_Full

N26b(814-824MHz)-10M-PAPR-M-DFT-s-OFDM-Pi2 BPSK-Outer_Full

N26b(814-824MHz)-10M-PAPR-M-CP-OFDM-QPSK-Outer_Full

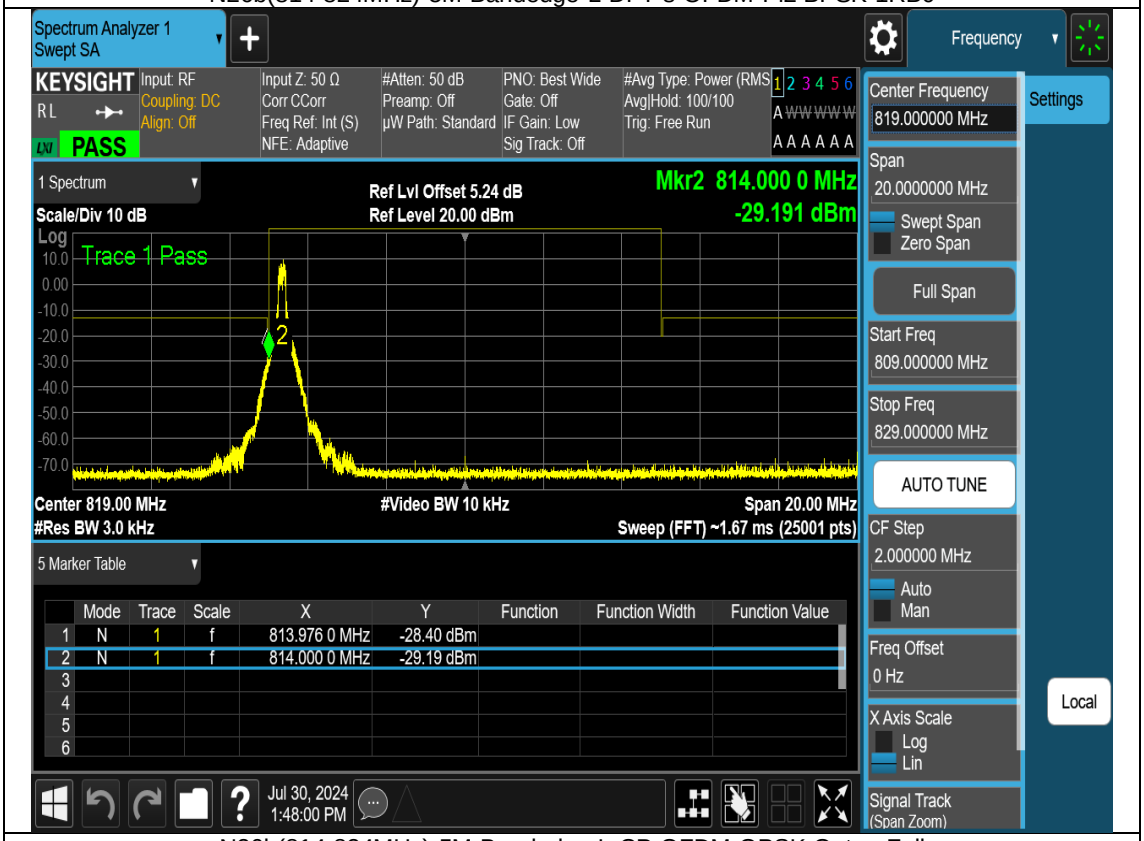

Spectrum Analyzer 1
Power Stat CCDF
Frequency
KEYSIGHT
RL
Input: RF
Coupling: DC
Align: Off
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
Atten: 40 dB
Preamp: Off
µW Path: Standard
Trig: Free Run
#IF Gain: Low
Center Freq: 819.000000 MHz
Counts: 10.0 M/10.0 Mpt
Radio Std: None
Center Frequency
819.000000 MHz
Settings
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 Metrics
Average Power
20.61 dBm
37.56 % at 0 dB
10.0 % 3.59 dB
1.0 % 6.26 dB
0.1 % 6.88 dB
0.01 % 7.11 dB
0.001 % 7.27 dB
0.0001 % 7.38 dB
Peak 7.45 dB
28.06 dBm
2 Graph
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.00 dB
20.00 dB
Info BW 20.000 MHz
Local
Jul 30, 2024
2:11:33 PM

Bandedge

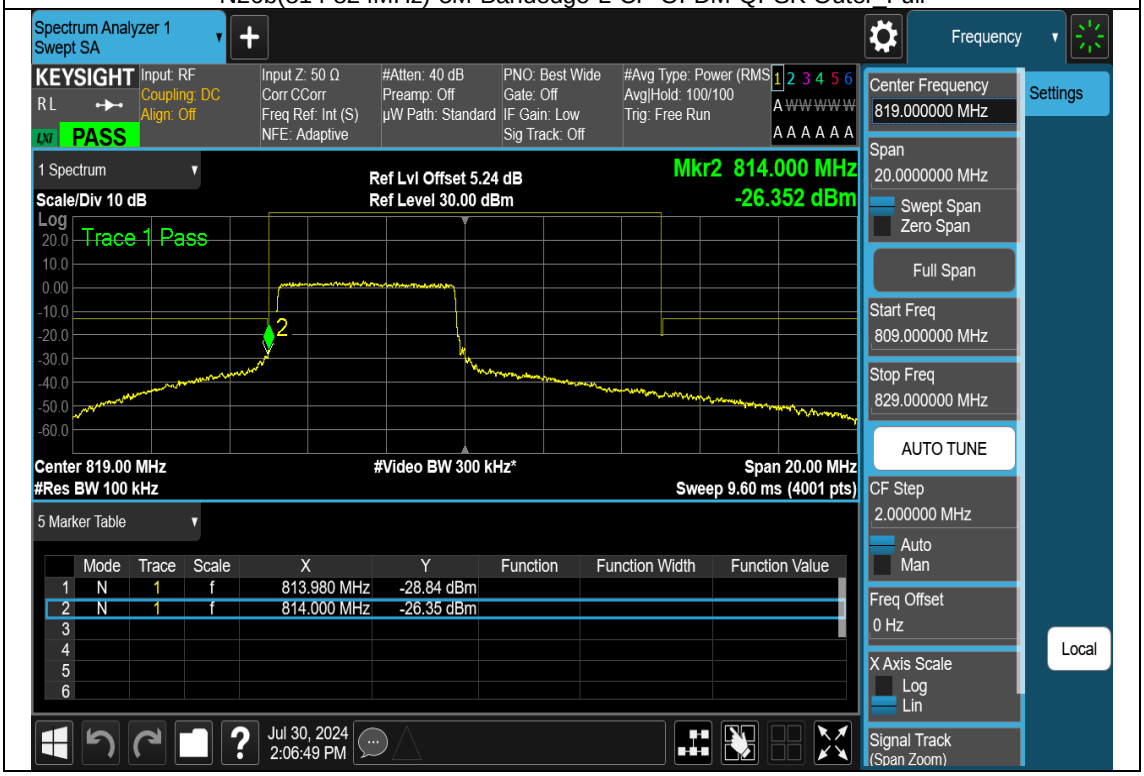
test graph

N26b(814-824MHz)-5M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-Outer_Full

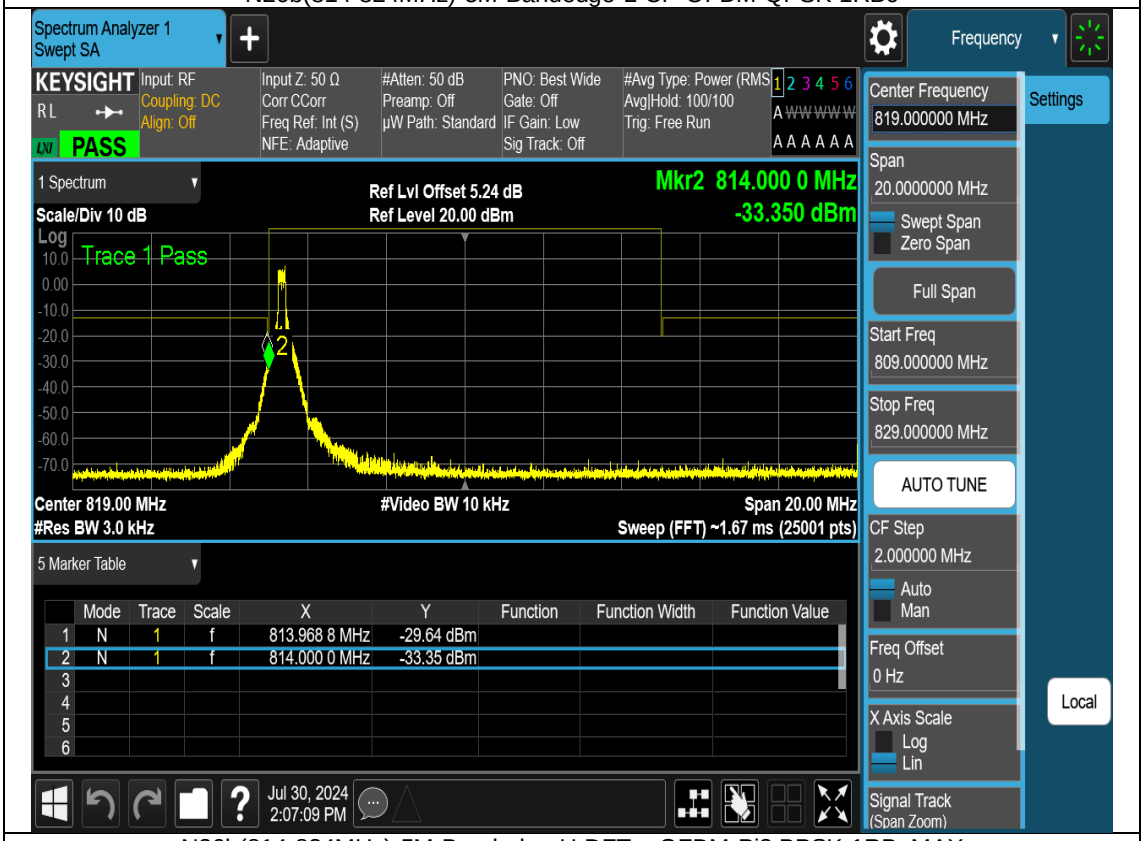
N26b(814-824MHz)-5M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-1RB0



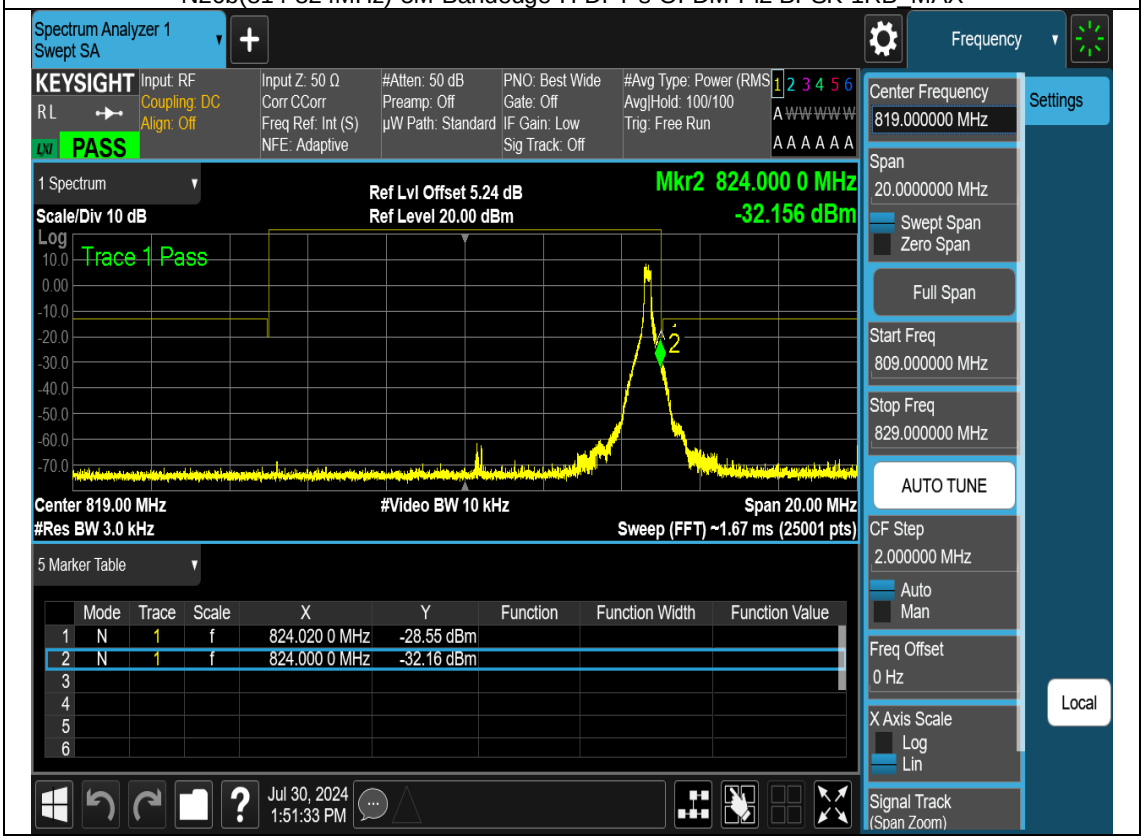
N26b(814-824MHz)-5M-Bandedge-L-CP-OFDM-QPSK-Outer_Full



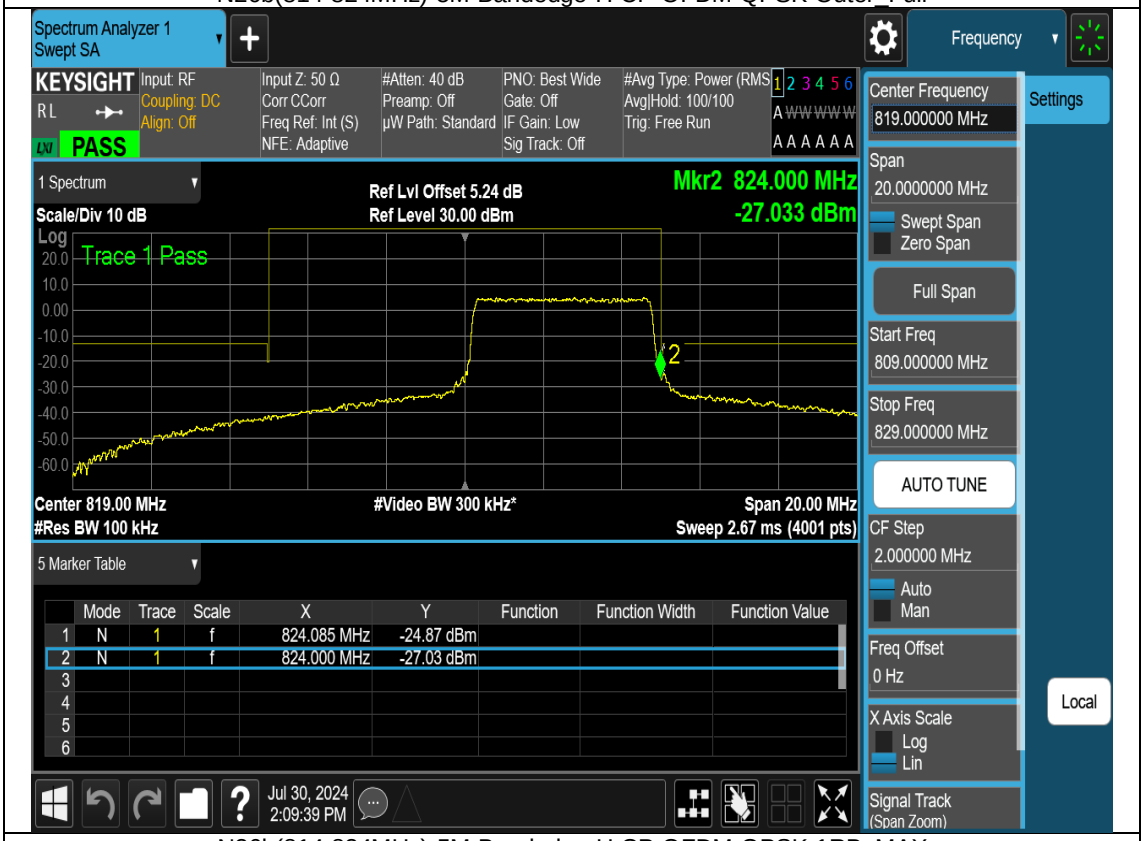
N26b(814-824MHz)-5M-Bandedge-L-CP-OFDM-QPSK-1RB0



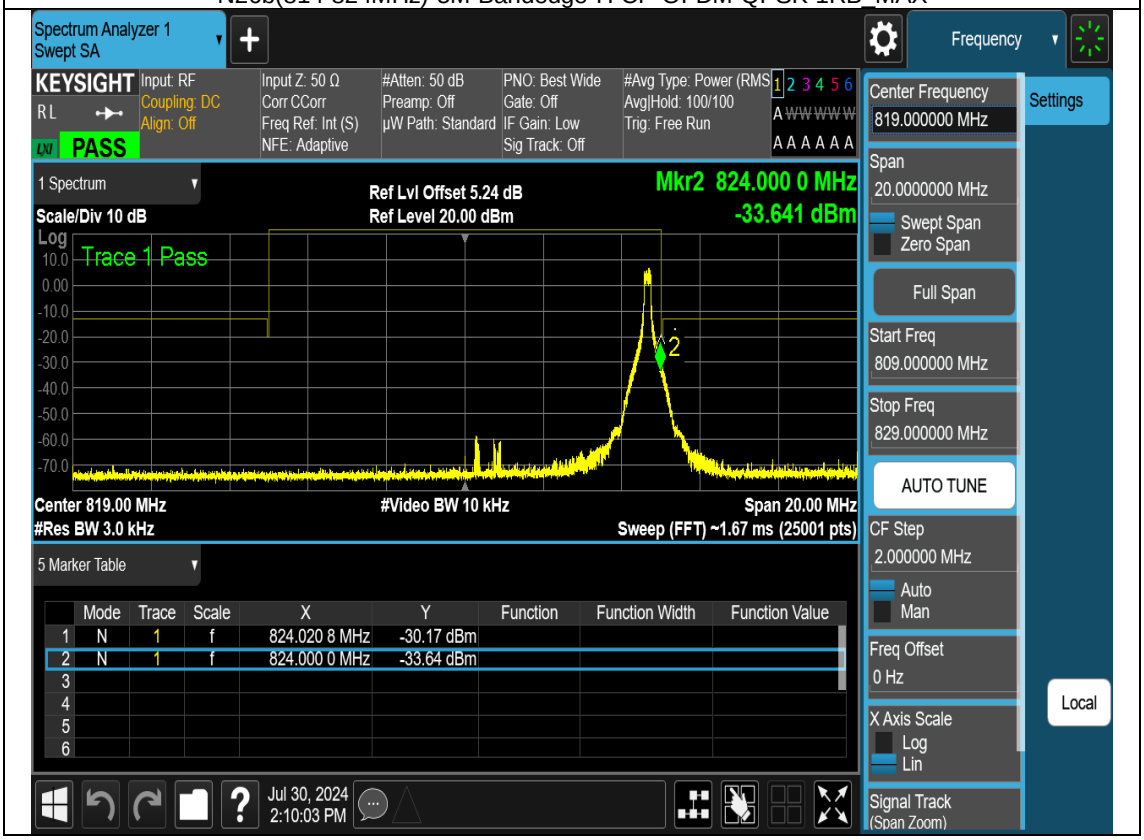
N26b(814-824MHz)-5M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB_MAX



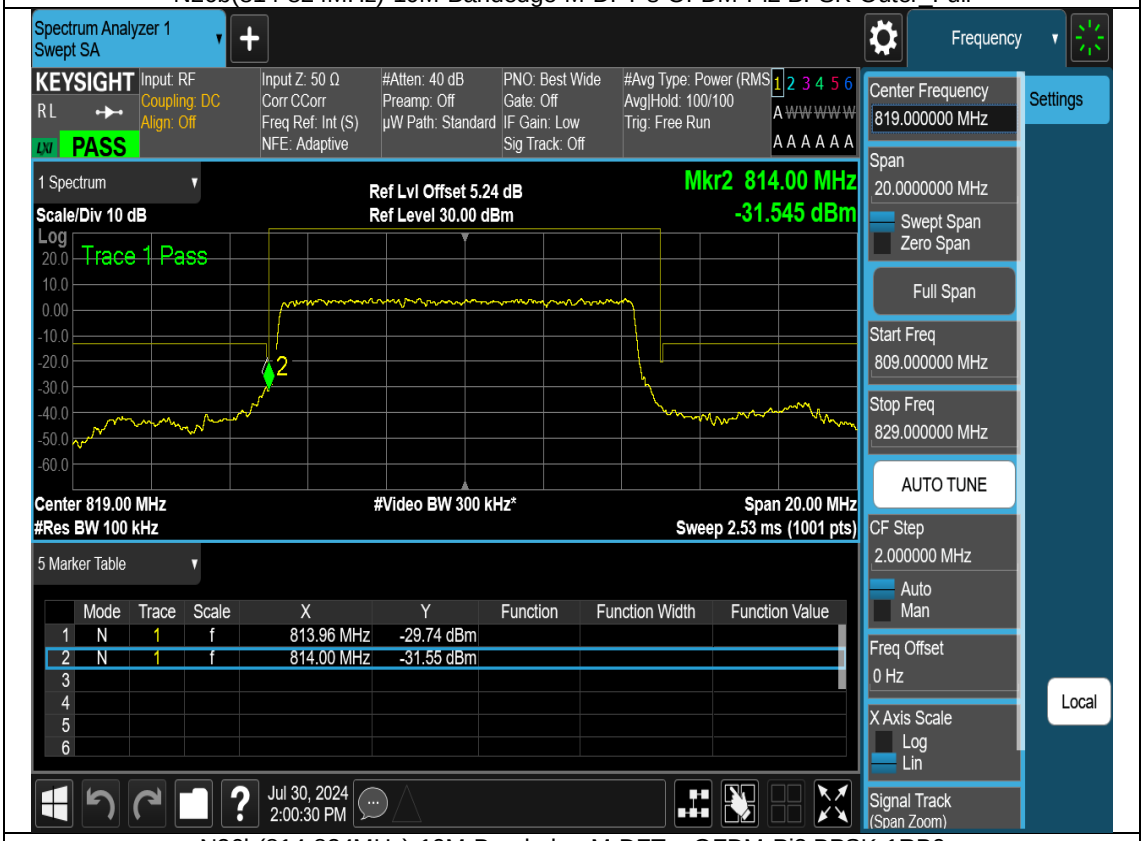
N26b(814-824MHz)-5M-Bandedge-H-CP-OFDM-QPSK-Outer_Full



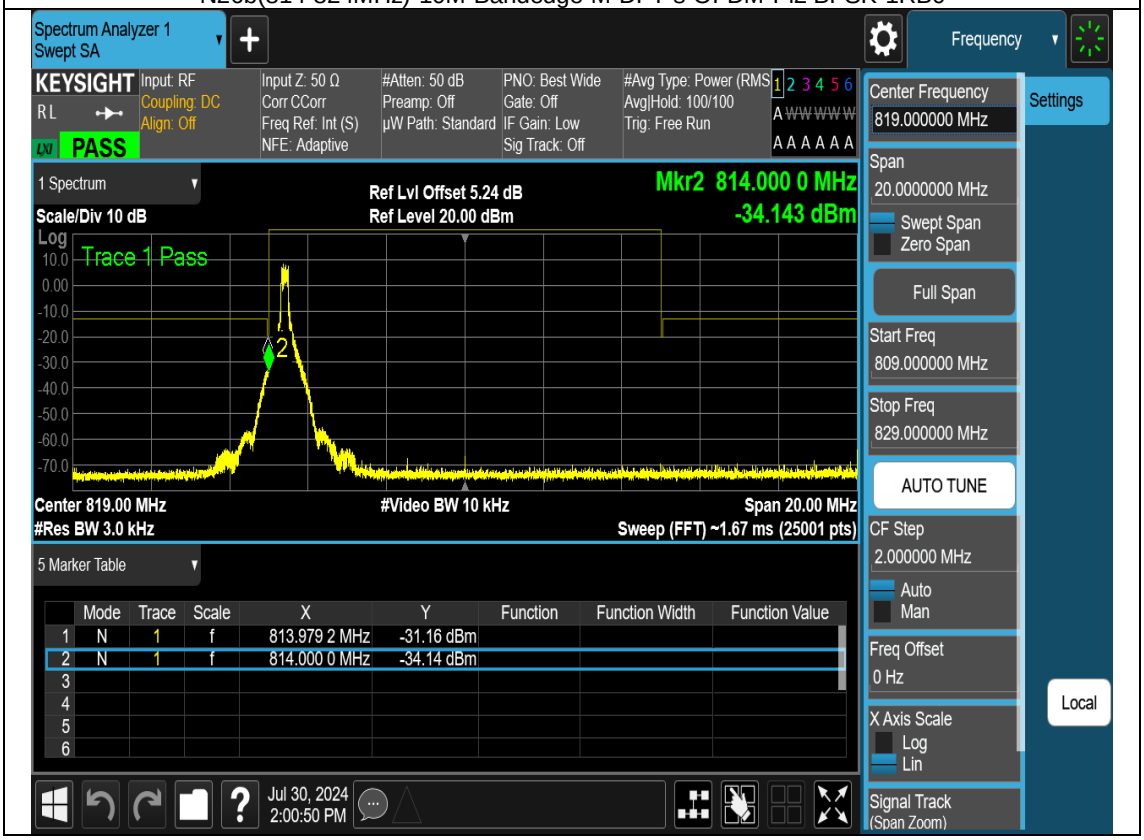
N26b(814-824MHz)-5M-Bandedge-H-CP-OFDM-QPSK-1RB_MAX



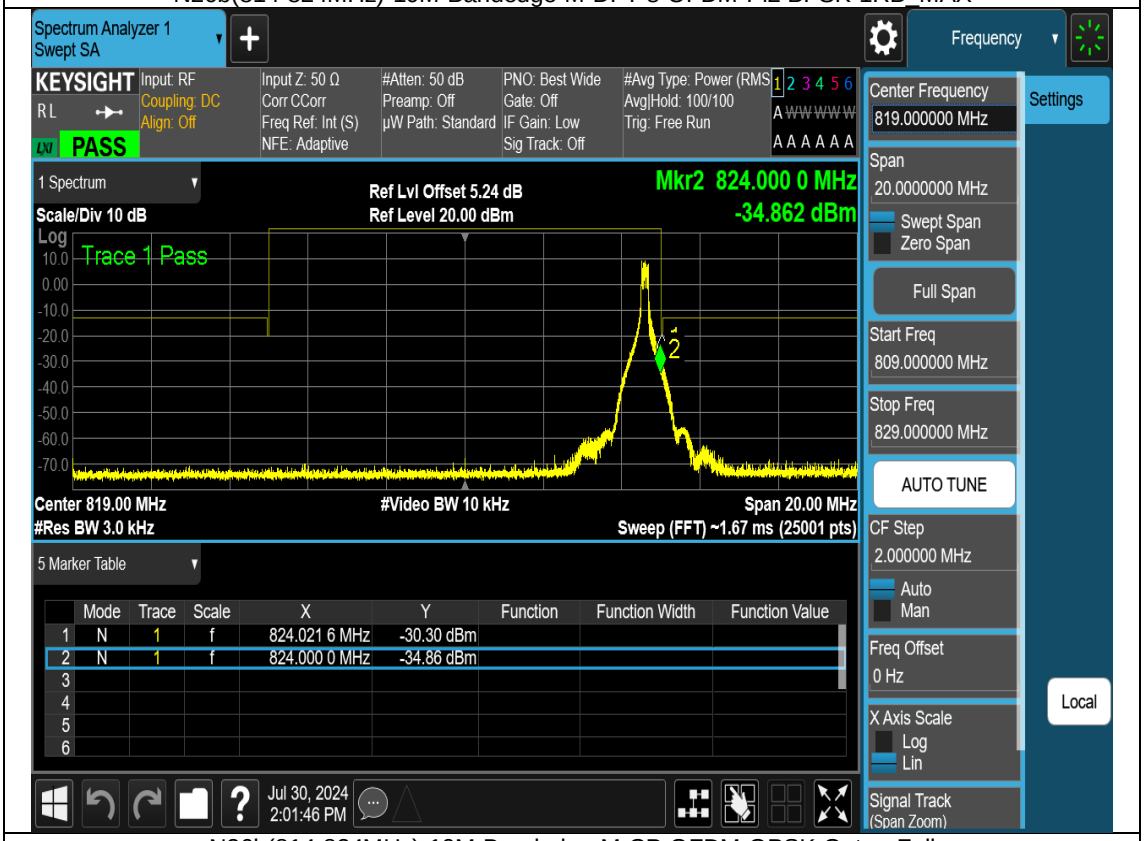
N26b(814-824MHz)-10M-Bandedge-M-DFT-s-OFDM-Pi2 BPSK-Outer_Full



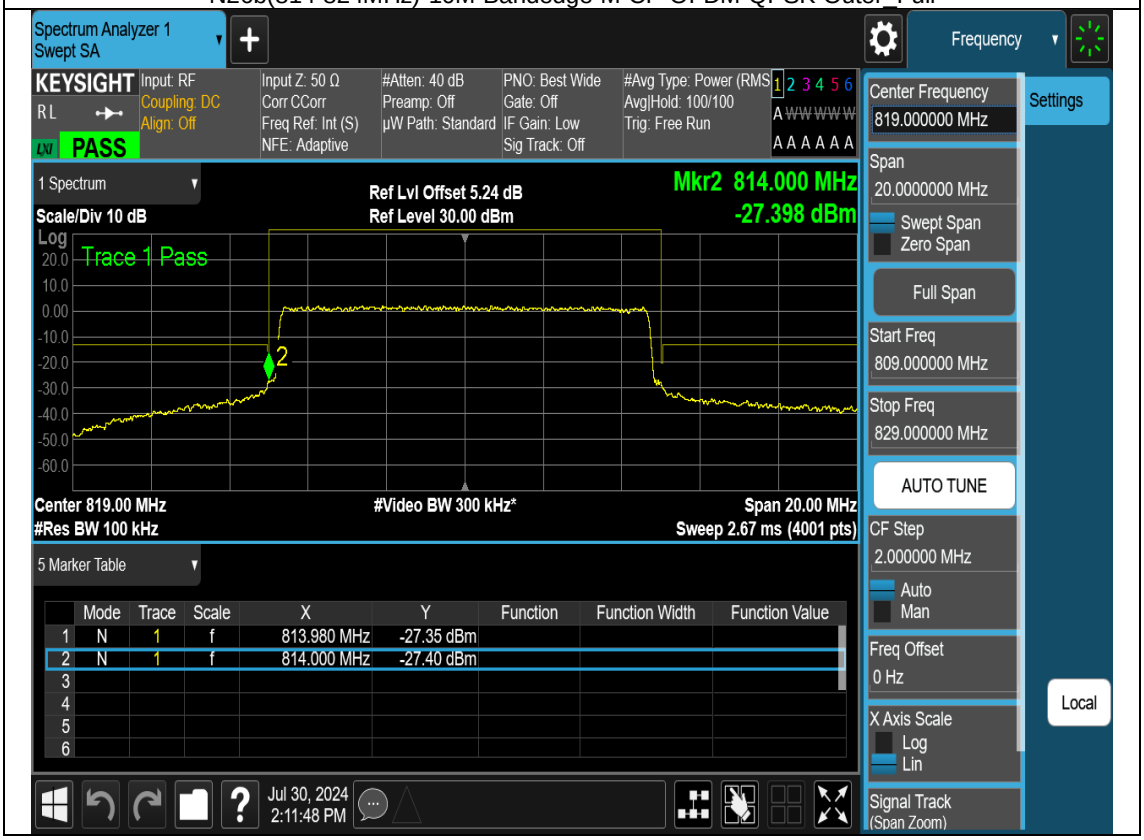
N26b(814-824MHz)-10M-Bandedge-M-DFT-s-OFDM-Pi2 BPSK-1RB0



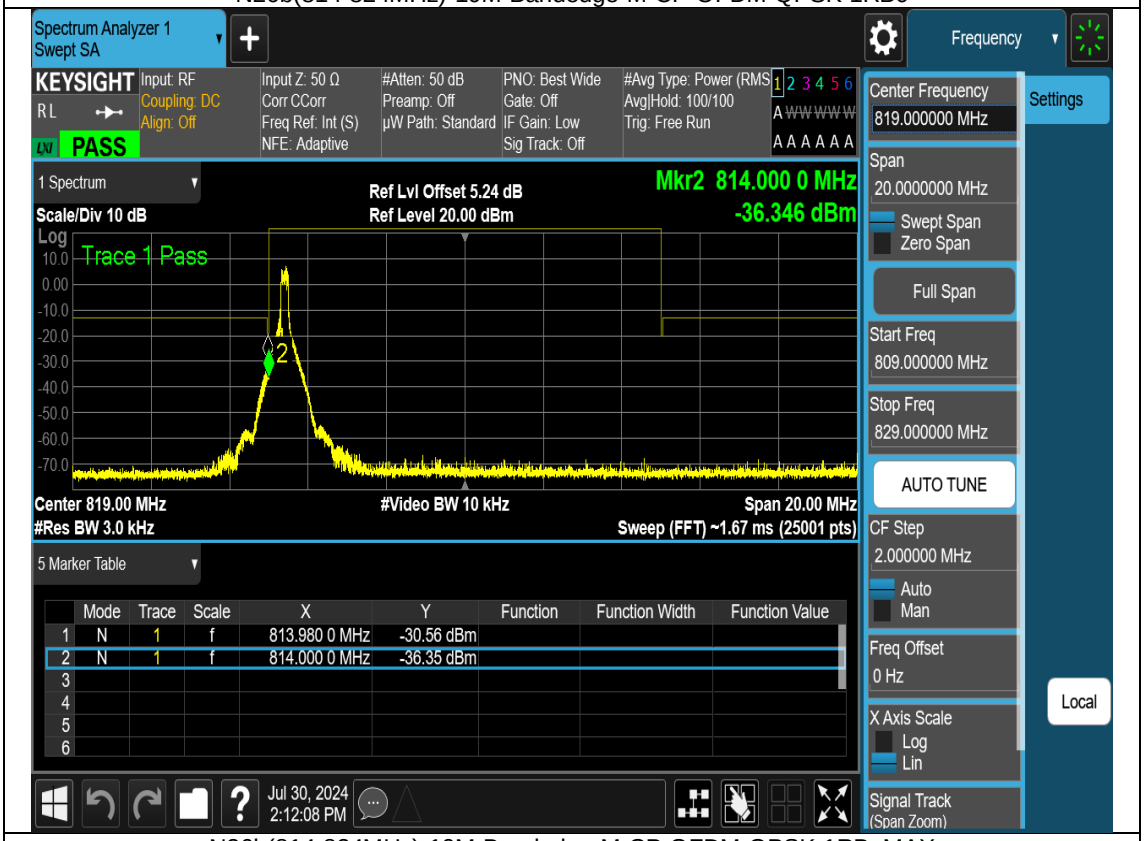
N26b(814-824MHz)-10M-Bandedge-M-DFT-s-OFDM-Pi2 BPSK-1RB_MAX



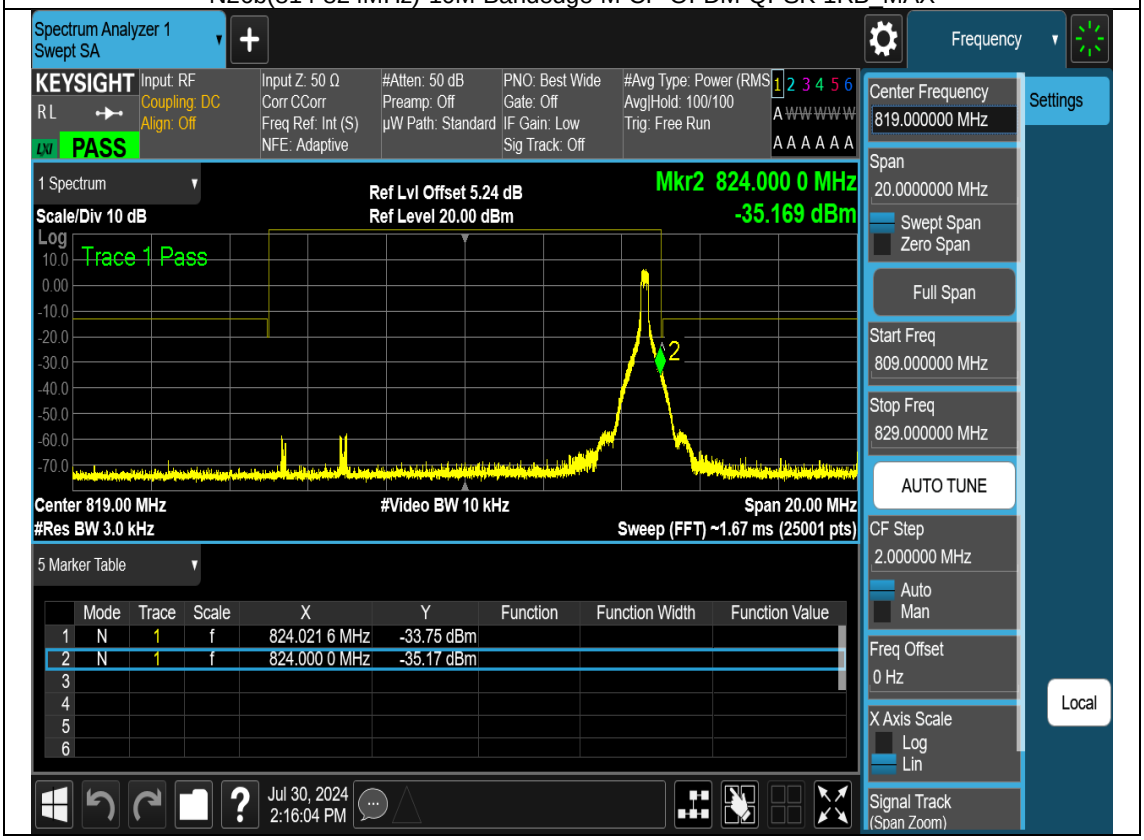
N26b(814-824MHz)-10M-Bandedge-M-CP-OFDM-QPSK-Outer_Full



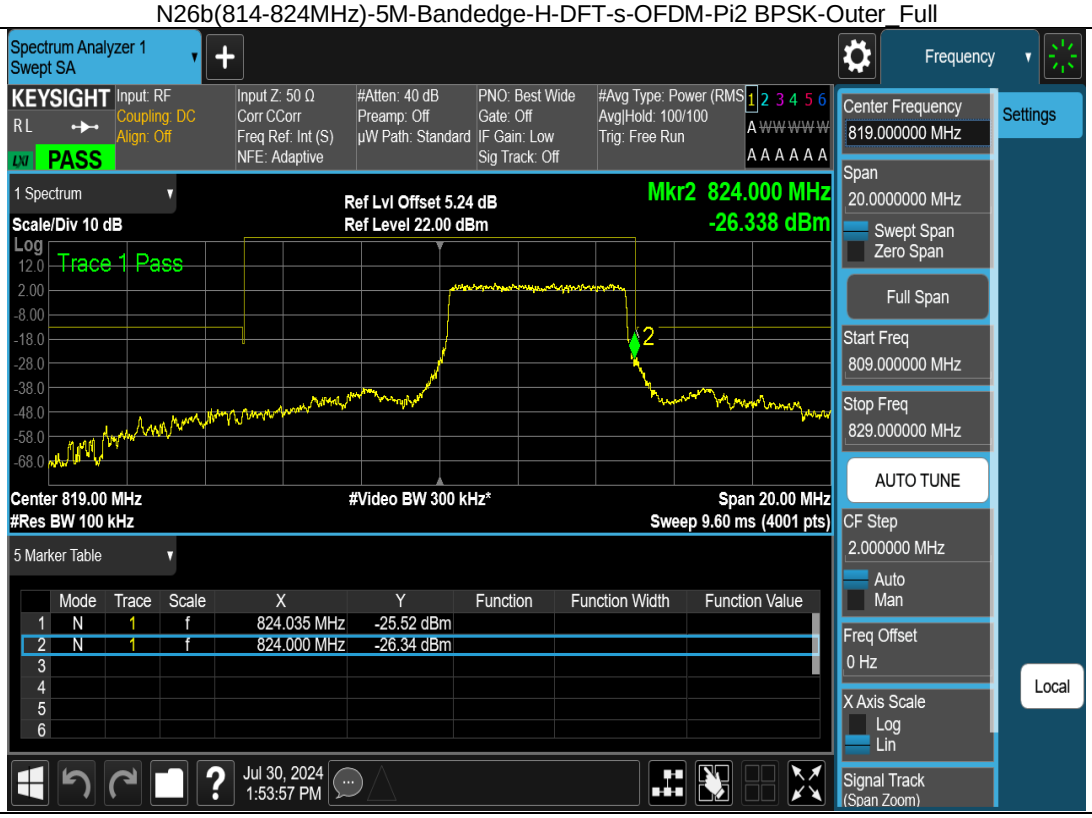
N26b(814-824MHz)-10M-Bandedge-M-CP-OFDM-QPSK-1RB0



N26b(814-824MHz)-10M-Bandedge-M-CP-OFDM-QPSK-1RB_MAX

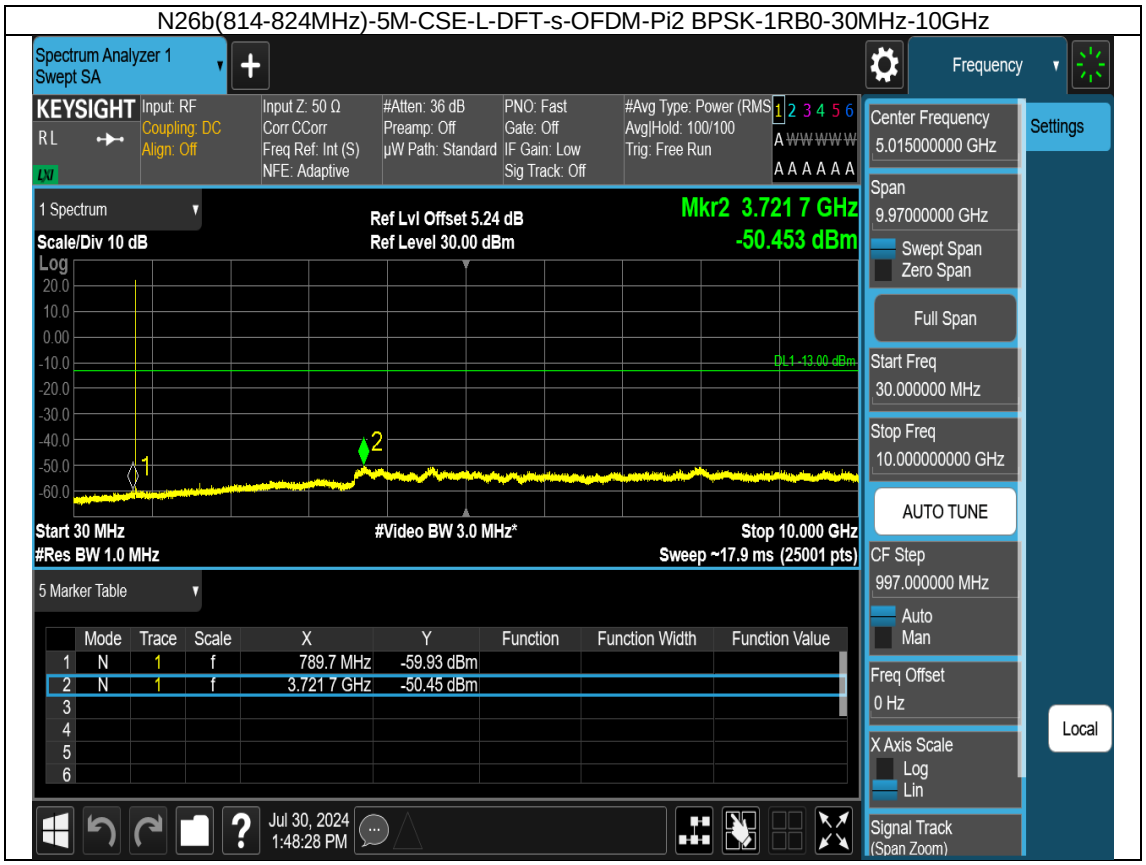


N26b(814-824MHz)-5M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full

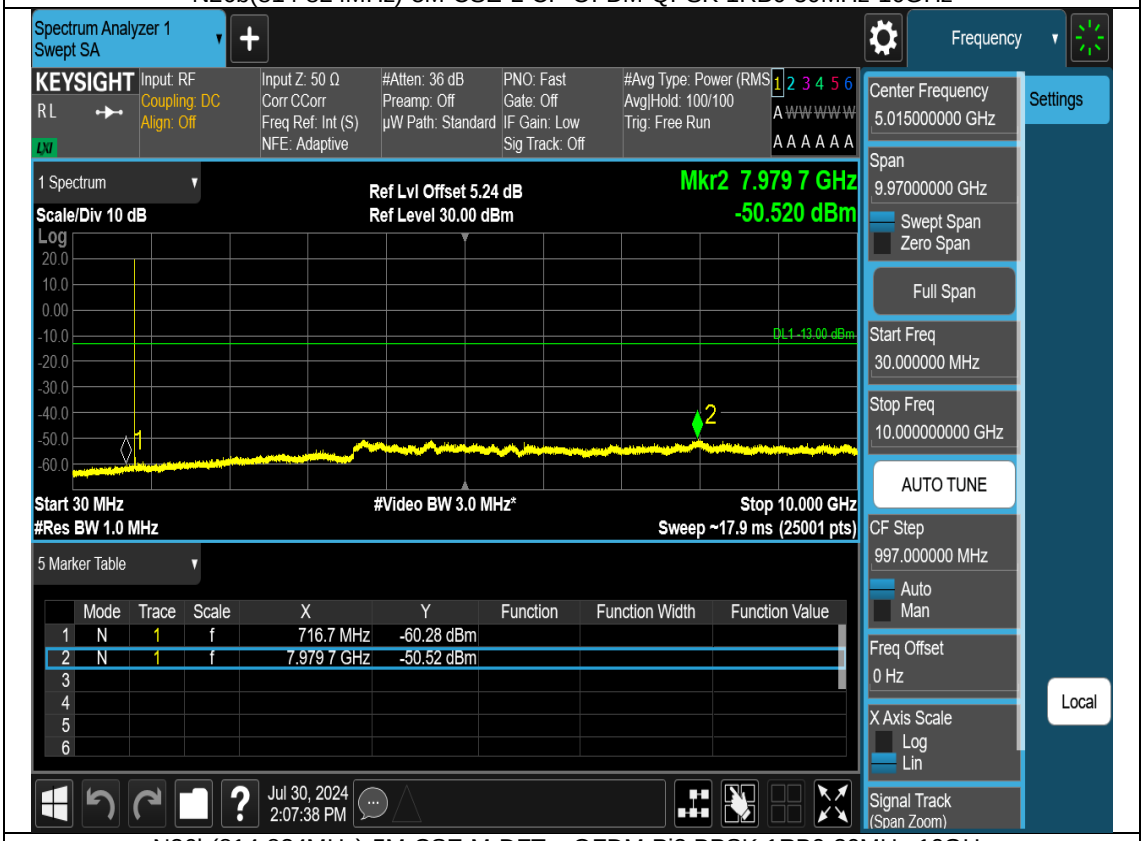


Conducted spurious emissions

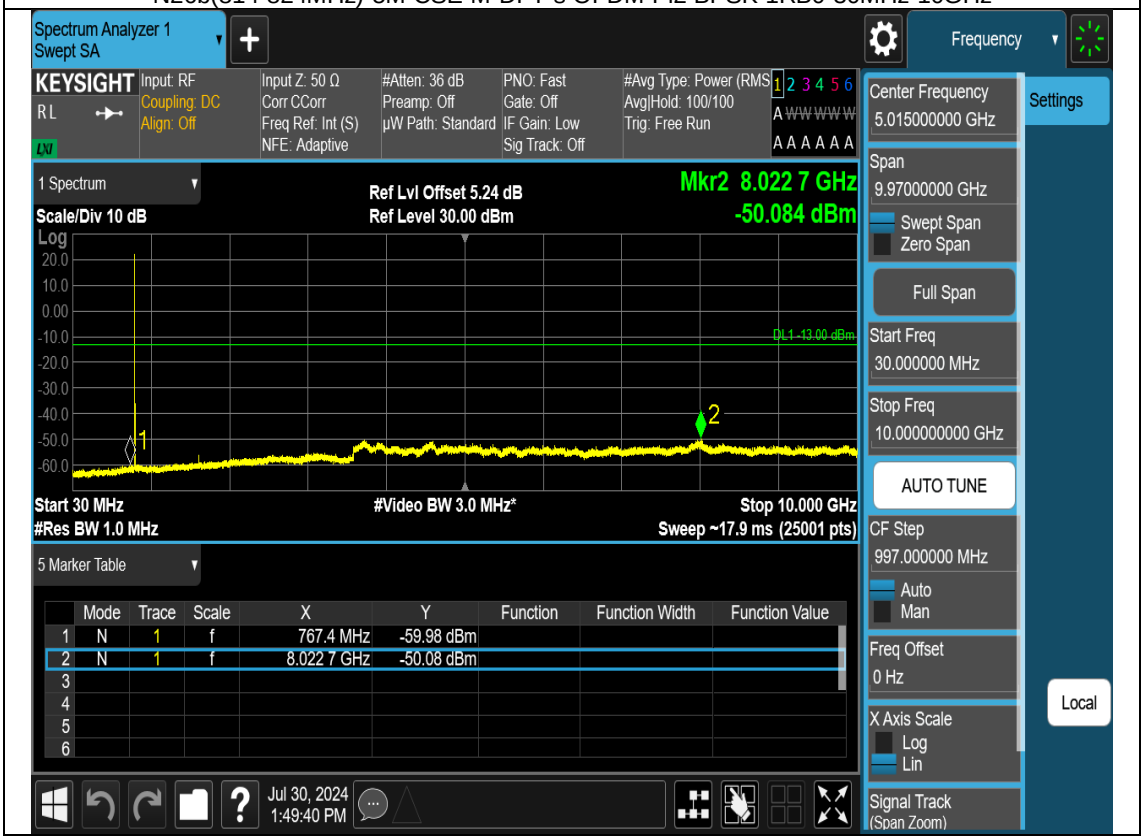
test graph



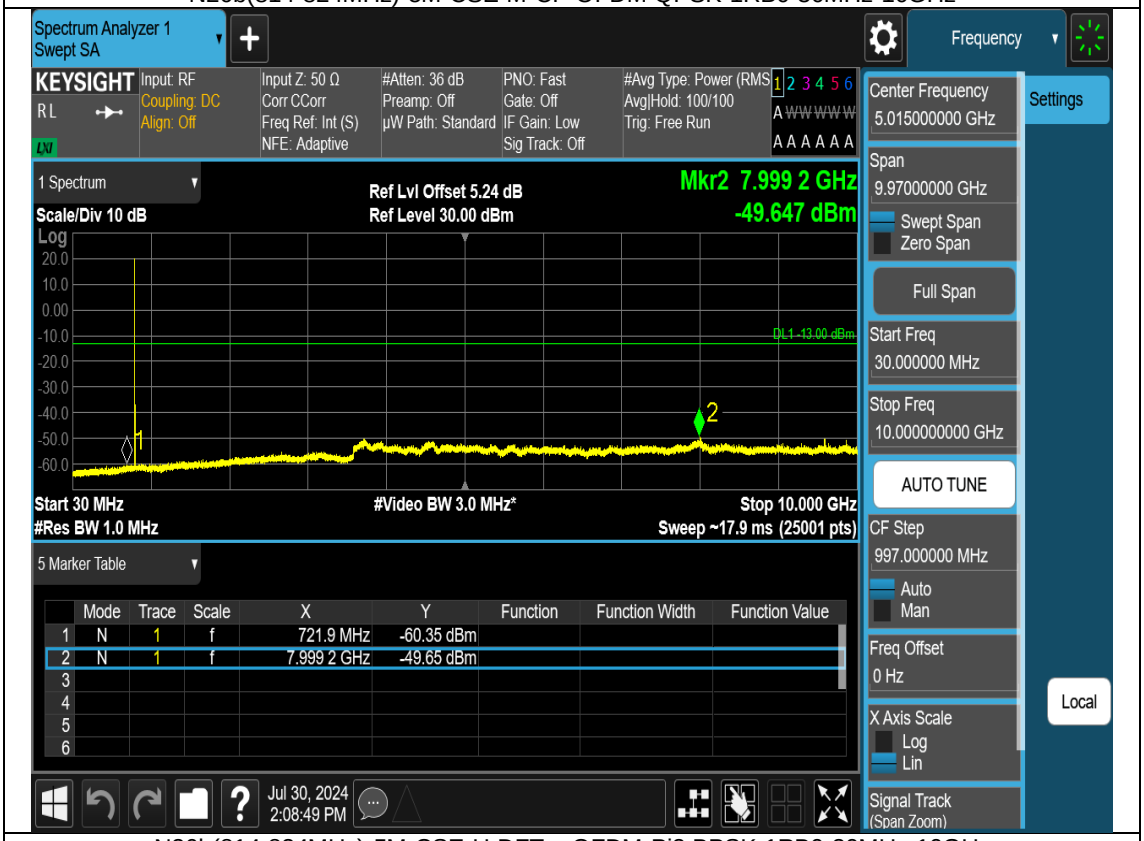
N26b(814-824MHz)-5M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz-10GHz



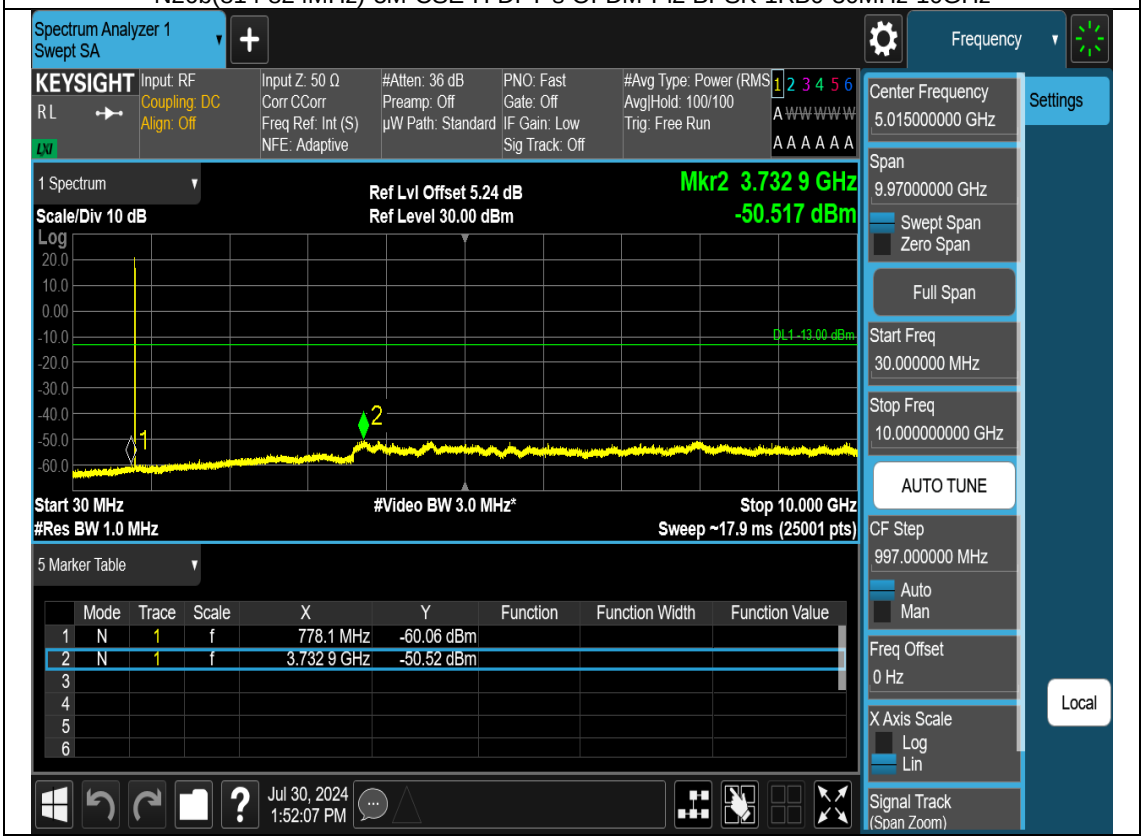
N26b(814-824MHz)-5M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



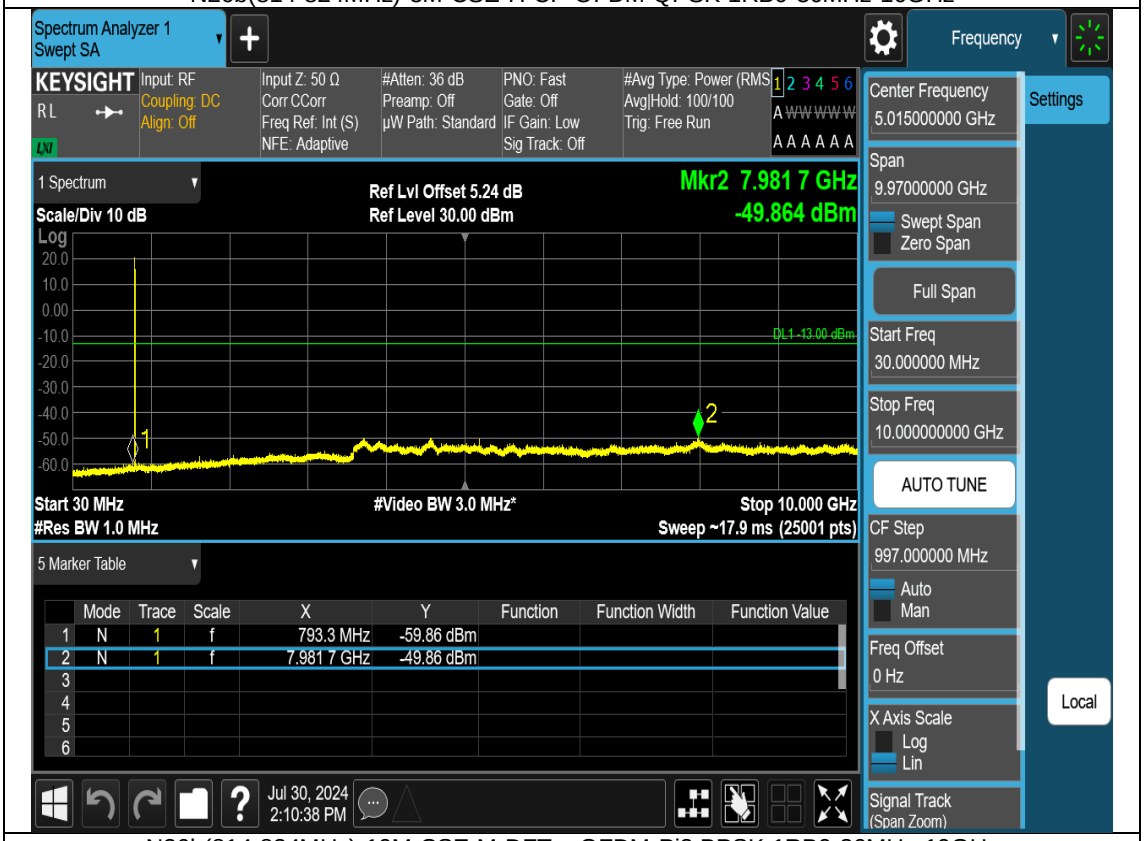
N26b(814-824MHz)-5M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz



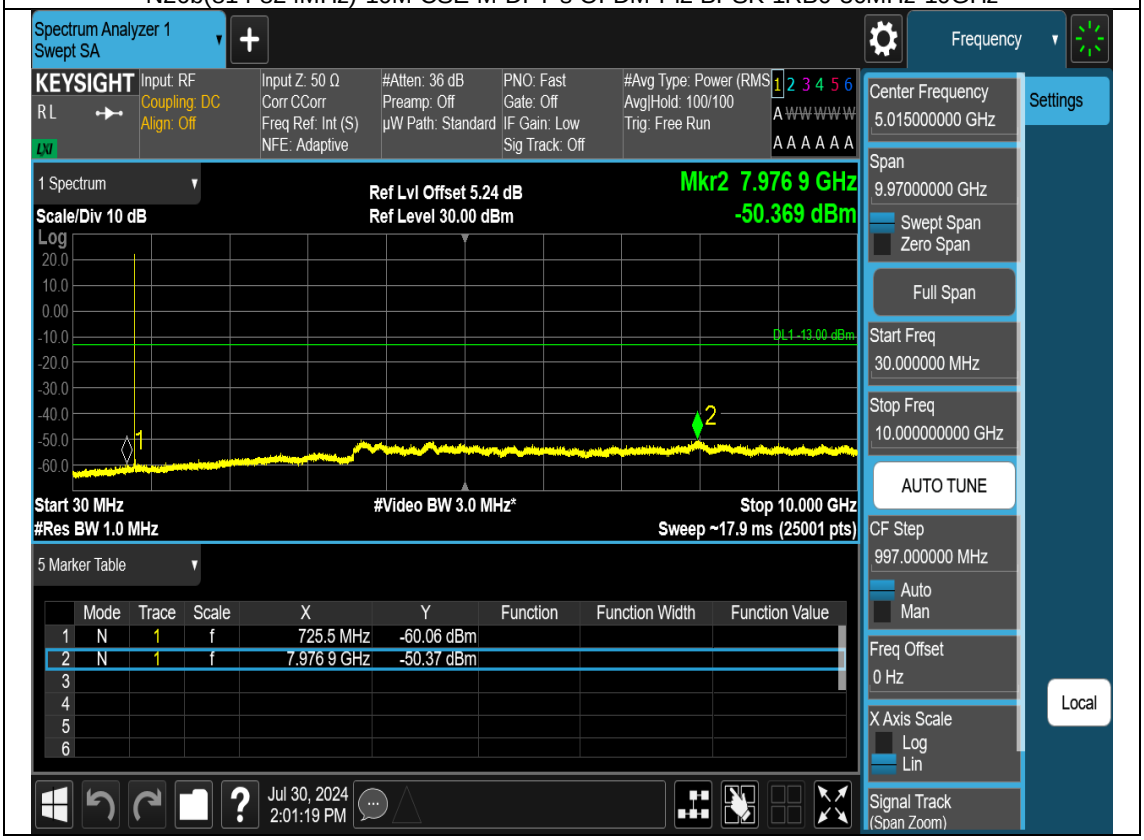
N26b(814-824MHz)-5M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



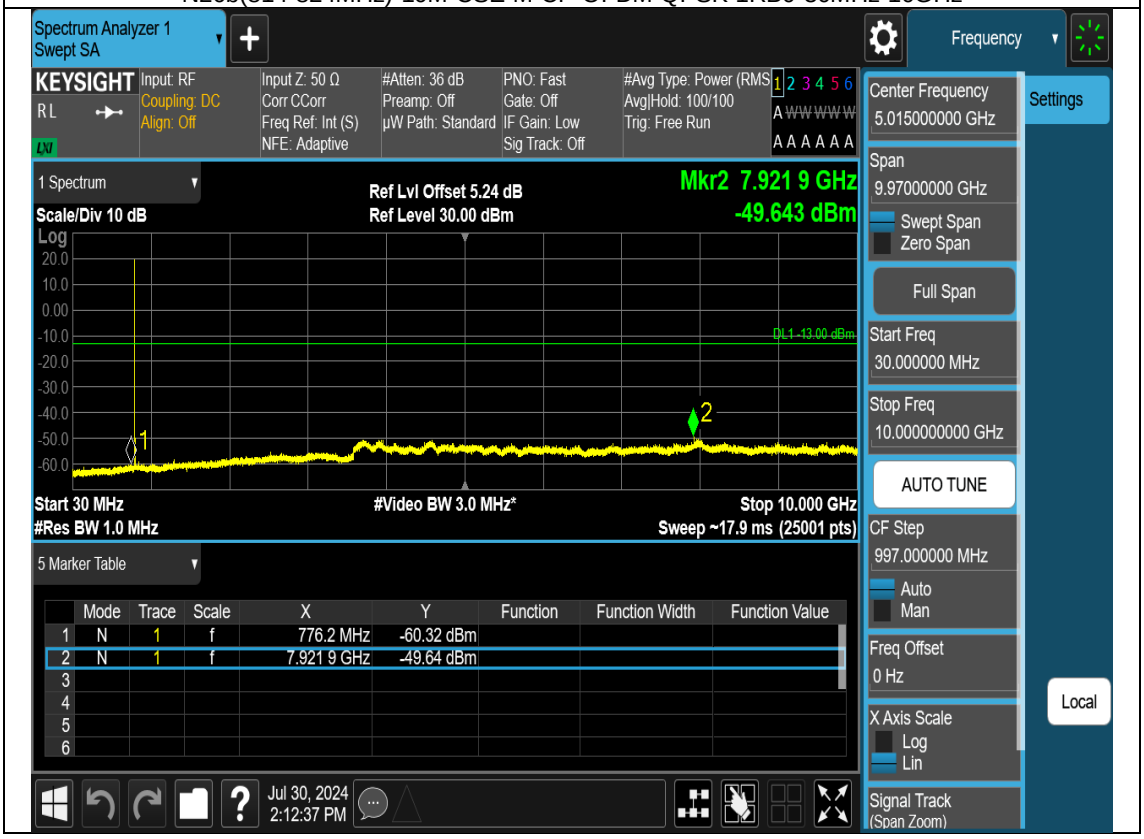
N26b(814-824MHz)-5M-CSE-H-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N26b(814-824MHz)-10M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



N26b(814-824MHz)-10M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz



Transmitter Conducted Power Output

Band width	Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)	ERP(dBm)	Limit	Verdict	Gain
5MHz	DFT-s-OFDM PI/2 BPSK	816.5MHz	Edge_Full_Left	23.44	22.61	38.5	Pass	1.32
			Edge_Full_Right	23.42	22.59	38.5	Pass	1.32
			Edge_1RB_Left	23.33	22.5	38.5	Pass	1.32
			Edge_1RB_Right	23.29	22.46	38.5	Pass	1.32
			Outer_Full	23.51	22.68	38.5	Pass	1.32
			Inner_Full	23.62	22.79	38.5	Pass	1.32
			Inner_1RB_Left	23.49	22.66	38.5	Pass	1.32
			Inner_1RB_Right	23.65	22.82	38.5	Pass	1.32
	DFT-s-OFDM QPSK		Edge_Full_Left	23.09	22.26	38.5	Pass	1.32
			Edge_Full_Right	23.04	22.21	38.5	Pass	1.32
			Edge_1RB_Left	22.91	22.08	38.5	Pass	1.32
			Edge_1RB_Right	22.81	21.98	38.5	Pass	1.32
			Outer_Full	22.89	22.06	38.5	Pass	1.32
			Inner_Full	23.48	22.65	38.5	Pass	1.32
			Inner_1RB_Left	23.54	22.71	38.5	Pass	1.32
			Inner_1RB_Right	23.54	22.71	38.5	Pass	1.32
	DFT-s-OFDM 16QAM		Edge_Full_Left	21.87	21.04	38.5	Pass	1.32
			Edge_Full_Right	21.84	21.01	38.5	Pass	1.32
			Edge_1RB_Left	21.96	21.13	38.5	Pass	1.32
			Edge_1RB_Right	21.84	21.01	38.5	Pass	1.32
			Outer_Full	22.12	21.29	38.5	Pass	1.32
			Inner_Full	22.94	22.11	38.5	Pass	1.32
			Inner_1RB_Left	22.7	21.87	38.5	Pass	1.32
			Inner_1RB_Right	22.73	21.9	38.5	Pass	1.32
	DFT-s-OFDM 64QAM		Edge_Full_Left	21.69	20.86	38.5	Pass	1.32
			Edge_Full_Right	21.88	21.05	38.5	Pass	1.32
			Edge_1RB_Left	21.56	20.73	38.5	Pass	1.32
			Edge_1RB_Right	21.38	20.55	38.5	Pass	1.32
			Outer_Full	21.87	21.04	38.5	Pass	1.32
			Inner_Full	21.57	20.74	38.5	Pass	1.32
			Inner_1RB_Left	21.55	20.72	38.5	Pass	1.32
			Inner_1RB_Right	21.61	20.78	38.5	Pass	1.32
	DFT-s-OFDM 256QAM		Edge_Full_Left	19.55	18.72	38.5	Pass	1.32
			Edge_Full_Right	19.67	18.84	38.5	Pass	1.32
			Edge_1RB_Left	19.22	18.39	38.5	Pass	1.32
			Edge_1RB_Right	19.48	18.65	38.5	Pass	1.32
			Outer_Full	19.62	18.79	38.5	Pass	1.32
			Inner_Full	19.43	18.6	38.5	Pass	1.32
			Inner_1RB_Left	19.41	18.58	38.5	Pass	1.32
			Inner_1RB_Right	19.35	18.52	38.5	Pass	1.32
	CP-OFDM QPSK		Edge_Full_Left	20.81	19.98	38.5	Pass	1.32

			Edge_Full_Right	21.02	20.19	38.5	Pass	1.32
			Edge_1RB_Left	21.13	20.3	38.5	Pass	1.32
			Edge_1RB_Right	20.98	20.15	38.5	Pass	1.32
			Outer_Full	21.02	20.19	38.5	Pass	1.32
			Inner_Full	22.56	21.73	38.5	Pass	1.32
			Inner_1RB_Left	22.51	21.68	38.5	Pass	1.32
			Inner_1RB_Right	22.14	21.31	38.5	Pass	1.32
	CP-OFDM 16QAM		Edge_Full_Left	20.72	19.89	38.5	Pass	1.32
			Edge_Full_Right	20.82	19.99	38.5	Pass	1.32
			Edge_1RB_Left	21.72	20.89	38.5	Pass	1.32
			Edge_1RB_Right	21.4	20.57	38.5	Pass	1.32
			Outer_Full	21.02	20.19	38.5	Pass	1.32
			Inner_Full	22.17	21.34	38.5	Pass	1.32
			Inner_1RB_Left	22.55	21.72	38.5	Pass	1.32
			Inner_1RB_Right	22.61	21.78	38.5	Pass	1.32
	CP-OFDM 64QAM		Edge_Full_Left	20.06	19.23	38.5	Pass	1.32
			Edge_Full_Right	20.06	19.23	38.5	Pass	1.32
			Edge_1RB_Left	20.17	19.34	38.5	Pass	1.32
			Edge_1RB_Right	20.35	19.52	38.5	Pass	1.32
			Outer_Full	20.6	19.77	38.5	Pass	1.32
			Inner_Full	20.51	19.68	38.5	Pass	1.32
			Inner_1RB_Left	20.23	19.4	38.5	Pass	1.32
			Inner_1RB_Right	20.18	19.35	38.5	Pass	1.32
	CP-OFDM 256QAM		Edge_Full_Left	17.83	17	38.5	Pass	1.32
			Edge_Full_Right	17.71	16.88	38.5	Pass	1.32
			Edge_1RB_Left	18.06	17.23	38.5	Pass	1.32
			Edge_1RB_Right	17.94	17.11	38.5	Pass	1.32
			Outer_Full	17.48	16.65	38.5	Pass	1.32
			Inner_Full	17.12	16.29	38.5	Pass	1.32
			Inner_1RB_Left	17.92	17.09	38.5	Pass	1.32
			Inner_1RB_Right	17.83	17	38.5	Pass	1.32
	DFT-s-OFDM PI/2 BPSK	819MHz	Edge_Full_Left	23.27	22.44	38.5	Pass	1.32
			Edge_Full_Right	23.28	22.45	38.5	Pass	1.32
			Edge_1RB_Left	23.26	22.43	38.5	Pass	1.32
			Edge_1RB_Right	23.17	22.34	38.5	Pass	1.32
			Outer_Full	23.84	23.01	38.5	Pass	1.32
			Inner_Full	23.65	22.82	38.5	Pass	1.32
			Inner_1RB_Left	23.43	22.6	38.5	Pass	1.32
			Inner_1RB_Right	23.42	22.59	38.5	Pass	1.32
	DFT-s-OFDM QPSK		Edge_Full_Left	23.12	22.29	38.5	Pass	1.32
			Edge_Full_Right	22.83	22	38.5	Pass	1.32
			Edge_1RB_Left	23.04	22.21	38.5	Pass	1.32
			Edge_1RB_Right	22.96	22.13	38.5	Pass	1.32
			Outer_Full	23.09	22.26	38.5	Pass	1.32
			Inner_Full	23.57	22.74	38.5	Pass	1.32

			Inner_1RB_Left	23.5	22.67	38.5	Pass	1.32
			Inner_1RB_Right	23.49	22.66	38.5	Pass	1.32
	DFT-s-OFDM 16QAM		Edge_Full_Left	21.79	20.96	38.5	Pass	1.32
			Edge_Full_Right	21.78	20.95	38.5	Pass	1.32
			Edge_1RB_Left	21.83	21	38.5	Pass	1.32
			Edge_1RB_Right	21.89	21.06	38.5	Pass	1.32
			Outer_Full	22.15	21.32	38.5	Pass	1.32
			Inner_Full	22.78	21.95	38.5	Pass	1.32
			Inner_1RB_Left	22.56	21.73	38.5	Pass	1.32
			Inner_1RB_Right	22.49	21.66	38.5	Pass	1.32
	DFT-s-OFDM 64QAM		Edge_Full_Left	21.75	20.92	38.5	Pass	1.32
			Edge_Full_Right	21.72	20.89	38.5	Pass	1.32
			Edge_1RB_Left	21.44	20.61	38.5	Pass	1.32
			Edge_1RB_Right	21.74	20.91	38.5	Pass	1.32
			Outer_Full	21.63	20.8	38.5	Pass	1.32
			Inner_Full	21.44	20.61	38.5	Pass	1.32
			Inner_1RB_Left	21.48	20.65	38.5	Pass	1.32
			Inner_1RB_Right	21.52	20.69	38.5	Pass	1.32
	DFT-s-OFDM 256QAM		Edge_Full_Left	19.69	18.86	38.5	Pass	1.32
			Edge_Full_Right	19.79	18.96	38.5	Pass	1.32
			Edge_1RB_Left	19.43	18.6	38.5	Pass	1.32
			Edge_1RB_Right	19.59	18.76	38.5	Pass	1.32
			Outer_Full	19.43	18.6	38.5	Pass	1.32
			Inner_Full	19.31	18.48	38.5	Pass	1.32
			Inner_1RB_Left	19.62	18.79	38.5	Pass	1.32
			Inner_1RB_Right	19.7	18.87	38.5	Pass	1.32
	CP-OFDM QPSK		Edge_Full_Left	20.86	20.03	38.5	Pass	1.32
			Edge_Full_Right	21.15	20.32	38.5	Pass	1.32
			Edge_1RB_Left	20.58	19.75	38.5	Pass	1.32
			Edge_1RB_Right	20.79	19.96	38.5	Pass	1.32
			Outer_Full	21.11	20.28	38.5	Pass	1.32
			Inner_Full	22.43	21.6	38.5	Pass	1.32
			Inner_1RB_Left	22.36	21.53	38.5	Pass	1.32
			Inner_1RB_Right	22.5	21.67	38.5	Pass	1.32
	CP-OFDM 16QAM		Edge_Full_Left	20.8	19.97	38.5	Pass	1.32
			Edge_Full_Right	20.71	19.88	38.5	Pass	1.32
			Edge_1RB_Left	21.3	20.47	38.5	Pass	1.32
			Edge_1RB_Right	21.31	20.48	38.5	Pass	1.32
			Outer_Full	21.17	20.34	38.5	Pass	1.32
			Inner_Full	22.2	21.37	38.5	Pass	1.32
			Inner_1RB_Left	22.03	21.2	38.5	Pass	1.32
			Inner_1RB_Right	22.13	21.3	38.5	Pass	1.32
	CP-OFDM 64QAM		Edge_Full_Left	20.14	19.31	38.5	Pass	1.32
			Edge_Full_Right	20.27	19.44	38.5	Pass	1.32
			Edge_1RB_Left	20.45	19.62	38.5	Pass	1.32

			Edge_1RB_Right	20.42	19.59	38.5	Pass	1.32
			Outer_Full	20.69	19.86	38.5	Pass	1.32
			Inner_Full	20.44	19.61	38.5	Pass	1.32
			Inner_1RB_Left	20.3	19.47	38.5	Pass	1.32
			Inner_1RB_Right	20.43	19.6	38.5	Pass	1.32
	CP-OFDM 256QAM		Edge_Full_Left	17.68	16.85	38.5	Pass	1.32
			Edge_Full_Right	17.65	16.82	38.5	Pass	1.32
			Edge_1RB_Left	17.76	16.93	38.5	Pass	1.32
			Edge_1RB_Right	18.03	17.2	38.5	Pass	1.32
			Outer_Full	17.49	16.66	38.5	Pass	1.32
			Inner_Full	17.25	16.42	38.5	Pass	1.32
			Inner_1RB_Left	17.98	17.15	38.5	Pass	1.32
			Inner_1RB_Right	18.15	17.32	38.5	Pass	1.32
	DFT-s-OFDM PI/2 BPSK	821.5MHz	Edge_Full_Left	23.48	22.65	38.5	Pass	1.32
			Edge_Full_Right	23.67	22.84	38.5	Pass	1.32
			Edge_1RB_Left	23.21	22.38	38.5	Pass	1.32
			Edge_1RB_Right	23.53	22.7	38.5	Pass	1.32
			Outer_Full	23.58	22.75	38.5	Pass	1.32
			Inner_Full	23.72	22.89	38.5	Pass	1.32
			Inner_1RB_Left	23.55	22.72	38.5	Pass	1.32
			Inner_1RB_Right	23.45	22.62	38.5	Pass	1.32
	DFT-s-OFDM QPSK		Edge_Full_Left	22.98	22.15	38.5	Pass	1.32
			Edge_Full_Right	22.27	21.44	38.5	Pass	1.32
			Edge_1RB_Left	22.91	22.08	38.5	Pass	1.32
			Edge_1RB_Right	22.11	21.28	38.5	Pass	1.32
			Outer_Full	22.9	22.07	38.5	Pass	1.32
			Inner_Full	23.94	23.11	38.5	Pass	1.32
			Inner_1RB_Left	23.67	22.84	38.5	Pass	1.32
			Inner_1RB_Right	23.19	22.36	38.5	Pass	1.32
	DFT-s-OFDM 16QAM		Edge_Full_Left	21.81	20.98	38.5	Pass	1.32
			Edge_Full_Right	21.08	20.25	38.5	Pass	1.32
			Edge_1RB_Left	21.74	20.91	38.5	Pass	1.32
			Edge_1RB_Right	21.13	20.3	38.5	Pass	1.32
			Outer_Full	21.82	20.99	38.5	Pass	1.32
			Inner_Full	22.88	22.05	38.5	Pass	1.32
			Inner_1RB_Left	22.71	21.88	38.5	Pass	1.32
			Inner_1RB_Right	22.15	21.32	38.5	Pass	1.32
	DFT-s-OFDM 64QAM		Edge_Full_Left	21.57	20.74	38.5	Pass	1.32
			Edge_Full_Right	20.94	20.11	38.5	Pass	1.32
			Edge_1RB_Left	21.28	20.45	38.5	Pass	1.32
			Edge_1RB_Right	20.74	19.91	38.5	Pass	1.32
			Outer_Full	21.44	20.61	38.5	Pass	1.32
			Inner_Full	21.12	20.29	38.5	Pass	1.32
			Inner_1RB_Left	21.33	20.5	38.5	Pass	1.32
			Inner_1RB_Right	20.69	19.86	38.5	Pass	1.32

	DFT-s-OFDM 256QAM		Edge_Full_Left	19.81	18.98	38.5	Pass	1.32
			Edge_Full_Right	19.09	18.26	38.5	Pass	1.32
			Edge_1RB_Left	19.7	18.87	38.5	Pass	1.32
			Edge_1RB_Right	19.24	18.41	38.5	Pass	1.32
			Outer_Full	19.61	18.78	38.5	Pass	1.32
			Inner_Full	19.67	18.84	38.5	Pass	1.32
			Inner_1RB_Left	19.69	18.86	38.5	Pass	1.32
			Inner_1RB_Right	19.07	18.24	38.5	Pass	1.32
	CP-OFDM QPSK		Edge_Full_Left	21.46	20.63	38.5	Pass	1.32
			Edge_Full_Right	20.81	19.98	38.5	Pass	1.32
			Edge_1RB_Left	21.04	20.21	38.5	Pass	1.32
			Edge_1RB_Right	20.8	19.97	38.5	Pass	1.32
			Outer_Full	21.03	20.2	38.5	Pass	1.32
			Inner_Full	22.23	21.4	38.5	Pass	1.32
			Inner_1RB_Left	22.62	21.79	38.5	Pass	1.32
			Inner_1RB_Right	21.84	21.01	38.5	Pass	1.32
	CP-OFDM 16QAM		Edge_Full_Left	21	20.17	38.5	Pass	1.32
			Edge_Full_Right	20.77	19.94	38.5	Pass	1.32
			Edge_1RB_Left	21.31	20.48	38.5	Pass	1.32
			Edge_1RB_Right	21.05	20.22	38.5	Pass	1.32
			Outer_Full	21.25	20.42	38.5	Pass	1.32
			Inner_Full	21.81	20.98	38.5	Pass	1.32
			Inner_1RB_Left	22.28	21.45	38.5	Pass	1.32
			Inner_1RB_Right	21.4	20.57	38.5	Pass	1.32
	CP-OFDM 64QAM		Edge_Full_Left	20.22	19.39	38.5	Pass	1.32
			Edge_Full_Right	20.55	19.72	38.5	Pass	1.32
			Edge_1RB_Left	20.82	19.99	38.5	Pass	1.32
			Edge_1RB_Right	20.64	19.81	38.5	Pass	1.32
			Outer_Full	20.91	20.08	38.5	Pass	1.32
			Inner_Full	20.66	19.83	38.5	Pass	1.32
			Inner_1RB_Left	20.46	19.63	38.5	Pass	1.32
			Inner_1RB_Right	20.51	19.68	38.5	Pass	1.32
	CP-OFDM 256QAM		Edge_Full_Left	18.06	17.23	38.5	Pass	1.32
			Edge_Full_Right	18.03	17.2	38.5	Pass	1.32
			Edge_1RB_Left	18.21	17.38	38.5	Pass	1.32
			Edge_1RB_Right	18.35	17.52	38.5	Pass	1.32
			Outer_Full	17.8	16.97	38.5	Pass	1.32
			Inner_Full	17.34	16.51	38.5	Pass	1.32
			Inner_1RB_Left	18.15	17.32	38.5	Pass	1.32
			Inner_1RB_Right	18.21	17.38	38.5	Pass	1.32
	DFT-s-OFDM PI/2 BPSK	819MHz	Edge_Full_Left	23.19	22.36	38.5	Pass	1.32
			Edge_Full_Right	23.46	22.63	38.5	Pass	1.32
			Edge_1RB_Left	23.27	22.44	38.5	Pass	1.32
			Edge_1RB_Right	23.09	22.26	38.5	Pass	1.32
			Outer_Full	23.37	22.54	38.5	Pass	1.32

			Inner_Full	23.51	22.68	38.5	Pass	1.32
			Inner_1RB_Left	23.26	22.43	38.5	Pass	1.32
			Inner_1RB_Right	23.45	22.62	38.5	Pass	1.32
	DFT-s-OFDM QPSK		Edge_Full_Left	22.9	22.07	38.5	Pass	1.32
			Edge_Full_Right	22.76	21.93	38.5	Pass	1.32
			Edge_1RB_Left	22.68	21.85	38.5	Pass	1.32
			Edge_1RB_Right	22.82	21.99	38.5	Pass	1.32
			Outer_Full	22.79	21.96	38.5	Pass	1.32
			Inner_Full	23.33	22.5	38.5	Pass	1.32
			Inner_1RB_Left	23.23	22.4	38.5	Pass	1.32
			Inner_1RB_Right	23.15	22.32	38.5	Pass	1.32
	DFT-s-OFDM 16QAM		Edge_Full_Left	21.74	20.91	38.5	Pass	1.32
			Edge_Full_Right	21.61	20.78	38.5	Pass	1.32
			Edge_1RB_Left	21.56	20.73	38.5	Pass	1.32
			Edge_1RB_Right	21.72	20.89	38.5	Pass	1.32
			Outer_Full	22.04	21.21	38.5	Pass	1.32
			Inner_Full	22.92	22.09	38.5	Pass	1.32
			Inner_1RB_Left	22.53	21.7	38.5	Pass	1.32
			Inner_1RB_Right	22.34	21.51	38.5	Pass	1.32
	DFT-s-OFDM 64QAM		Edge_Full_Left	21.28	20.45	38.5	Pass	1.32
			Edge_Full_Right	21.68	20.85	38.5	Pass	1.32
			Edge_1RB_Left	21.3	20.47	38.5	Pass	1.32
			Edge_1RB_Right	21.54	20.71	38.5	Pass	1.32
			Outer_Full	21.44	20.61	38.5	Pass	1.32
			Inner_Full	21.23	20.4	38.5	Pass	1.32
			Inner_1RB_Left	21.37	20.54	38.5	Pass	1.32
			Inner_1RB_Right	21.36	20.53	38.5	Pass	1.32
	DFT-s-OFDM 256QAM		Edge_Full_Left	19.57	18.74	38.5	Pass	1.32
			Edge_Full_Right	19.64	18.81	38.5	Pass	1.32
			Edge_1RB_Left	19.38	18.55	38.5	Pass	1.32
			Edge_1RB_Right	19.5	18.67	38.5	Pass	1.32
			Outer_Full	19.37	18.54	38.5	Pass	1.32
			Inner_Full	19.25	18.42	38.5	Pass	1.32
			Inner_1RB_Left	19.39	18.56	38.5	Pass	1.32
			Inner_1RB_Right	19.22	18.39	38.5	Pass	1.32
	CP-OFDM QPSK		Edge_Full_Left	20.73	19.9	38.5	Pass	1.32
			Edge_Full_Right	20.76	19.93	38.5	Pass	1.32
			Edge_1RB_Left	20.4	19.57	38.5	Pass	1.32
			Edge_1RB_Right	20.49	19.66	38.5	Pass	1.32
			Outer_Full	20.97	20.14	38.5	Pass	1.32
			Inner_Full	22.42	21.59	38.5	Pass	1.32
			Inner_1RB_Left	22.2	21.37	38.5	Pass	1.32
			Inner_1RB_Right	22.23	21.4	38.5	Pass	1.32
	CP-OFDM 16QAM		Edge_Full_Left	20.83	20	38.5	Pass	1.32
			Edge_Full_Right	20.64	19.81	38.5	Pass	1.32

			Edge_1RB_Left	21.09	20.26	38.5	Pass	1.32
			Edge_1RB_Right	21.08	20.25	38.5	Pass	1.32
			Outer_Full	20.87	20.04	38.5	Pass	1.32
			Inner_Full	21.83	21	38.5	Pass	1.32
			Inner_1RB_Left	21.9	21.07	38.5	Pass	1.32
			Inner_1RB_Right	21.82	20.99	38.5	Pass	1.32
	CP-OFDM 64QAM		Edge_Full_Left	19.93	19.1	38.5	Pass	1.32
			Edge_Full_Right	19.9	19.07	38.5	Pass	1.32
			Edge_1RB_Left	20.36	19.53	38.5	Pass	1.32
			Edge_1RB_Right	20.39	19.56	38.5	Pass	1.32
			Outer_Full	20.55	19.72	38.5	Pass	1.32
			Inner_Full	20.37	19.54	38.5	Pass	1.32
			Inner_1RB_Left	20.19	19.36	38.5	Pass	1.32
			Inner_1RB_Right	20.25	19.42	38.5	Pass	1.32
	CP-OFDM 256QAM		Edge_Full_Left	17.59	16.76	38.5	Pass	1.32
			Edge_Full_Right	17.48	16.65	38.5	Pass	1.32
			Edge_1RB_Left	17.77	16.94	38.5	Pass	1.32
			Edge_1RB_Right	18.14	17.31	38.5	Pass	1.32
			Outer_Full	17.41	16.58	38.5	Pass	1.32
			Inner_Full	17.2	16.37	38.5	Pass	1.32
			Inner_1RB_Left	17.73	16.9	38.5	Pass	1.32
			Inner_1RB_Right	18.04	17.21	38.5	Pass	1.32

Frequency Stability

Band width	Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Result (ppm)	Limit (ppm)	Verdict
5MHz	DFT-s-OFDM PI/2 BPSK	819	Outer_Full	20	LV	-1.61	-0.0009	2.5	Pass
					HV	9.44	0.0050	2.5	Pass
				-30	NV	9.23	0.0049	2.5	Pass
				-20	NV	-4.02	-0.0021	2.5	Pass
				-10	NV	6.38	0.0034	2.5	Pass
				0	NV	5.98	0.0032	2.5	Pass
				10	NV	-7.7	-0.0041	2.5	Pass
				20	NV	-5.81	-0.0031	2.5	Pass
				30	NV	-7.98	-0.0042	2.5	Pass
				40	NV	9.27	0.0049	2.5	Pass
				50	NV	-6.71	-0.0036	2.5	Pass
	CP-OFDM QPSK			20	LV	-4.28	-0.0023	2.5	Pass
					HV	2.58	0.0014	2.5	Pass
				-30	NV	-3.34	-0.0018	2.5	Pass
				-20	NV	3.2	0.0017	2.5	Pass
				-10	NV	-3.42	-0.0018	2.5	Pass
				0	NV	9.35	0.0050	2.5	Pass
				10	NV	9.49	0.0050	2.5	Pass
				20	NV	2.15	0.0011	2.5	Pass
				30	NV	2.73	0.0015	2.5	Pass
				40	NV	-6.47	-0.0034	2.5	Pass
				50	NV	-9.9	-0.0053	2.5	Pass
10MHz	DFT-s-OFDM PI/2 BPSK	819	Outer_Full	20	LV	9.21	0.0049	2.5	Pass
					HV	-7.58	-0.0040	2.5	Pass
				-30	NV	5.18	0.0028	2.5	Pass
				-20	NV	-8.6	-0.0046	2.5	Pass
				-10	NV	6.12	0.0033	2.5	Pass
				0	NV	5.84	0.0031	2.5	Pass
				10	NV	-6.13	-0.0033	2.5	Pass
				20	NV	-3.09	-0.0016	2.5	Pass
				30	NV	-10.12	-0.0054	2.5	Pass
				40	NV	-7.37	-0.0039	2.5	Pass
				50	NV	10.23	0.0054	2.5	Pass
	CP-OFDM QPSK			20	LV	-8.07	-0.0043	2.5	Pass
					HV	-6.59	-0.0035	2.5	Pass
				-30	NV	6.33	0.0034	2.5	Pass
				-20	NV	-3.75	-0.0020	2.5	Pass
				-10	NV	-6.23	-0.0033	2.5	Pass

				0	NV	-6.53	-0.0035	2.5	Pass
				10	NV	-10.06	-0.0054	2.5	Pass
				20	NV	2.27	0.0012	2.5	Pass
				30	NV	-9.75	-0.0052	2.5	Pass
				40	NV	3.63	0.0019	2.5	Pass
				50	NV	-4.61	-0.0025	2.5	Pass

Field Strength of Spurious Radiation

LTE Band N26 (814-824)-Low channel channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5104.741	-52.51	-13	-39.51	-58.45	4.26	10.2	Horizontal	Pass
9232.187	-51.27	-13	-38.27	-59.8	4.69	13.22	Horizontal	Pass
13135.54	-52.09	-13	-39.09	-60.26	5.52	13.69	Horizontal	Pass
5164.102	-52.37	-13	-39.37	-58.36	4.25	10.24	Vertical	Pass
9339.543	-50.2	-13	-37.2	-58.69	4.74	13.23	Vertical	Pass
15443.41	-50.08	-13	-37.08	-58.76	5.6	14.28	Vertical	Pass

LTE Band N26 (814-824)-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5090.007	-52.82	-13	-39.82	-58.76	4.26	10.2	Horizontal	Pass
7989.893	-53.96	-13	-40.96	-62.04	4.24	12.32	Horizontal	Pass
15443.41	-51.35	-13	-38.35	-60.03	5.6	14.28	Horizontal	Pass
5060.668	-52.52	-13	-39.52	-58.44	4.26	10.18	Vertical	Pass
9178.972	-51.84	-13	-38.84	-60.4	4.66	13.22	Vertical	Pass
15622.99	-51.29	-13	-38.29	-59.82	5.62	14.15	Vertical	Pass

LTE Band N26 (814-824)-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5060.668	-52.64	-13	-39.64	-58.56	4.26	10.18	Horizontal	Pass
6914.763	-52.39	-13	-39.39	-59.22	4.19	11.02	Horizontal	Pass
12909.7	-51.75	-13	-38.75	-59.63	5.58	13.46	Horizontal	Pass
5060.668	-52.74	-13	-39.74	-58.66	4.26	10.18	Vertical	Pass
9420.88	-50.72	-13	-37.72	-59.18	4.78	13.24	Vertical	Pass
15488.11	-50.63	-13	-37.63	-59.28	5.61	14.26	Vertical	Pass

---End of Attachment---