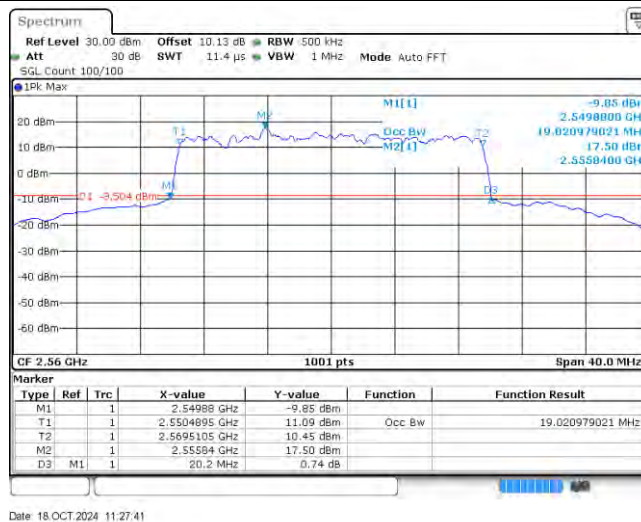
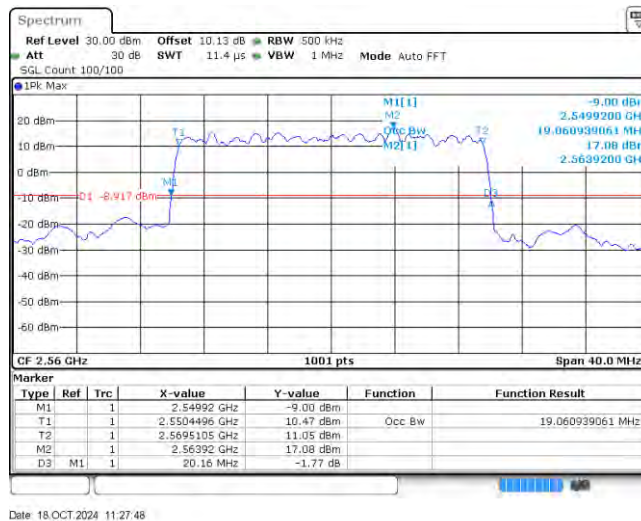
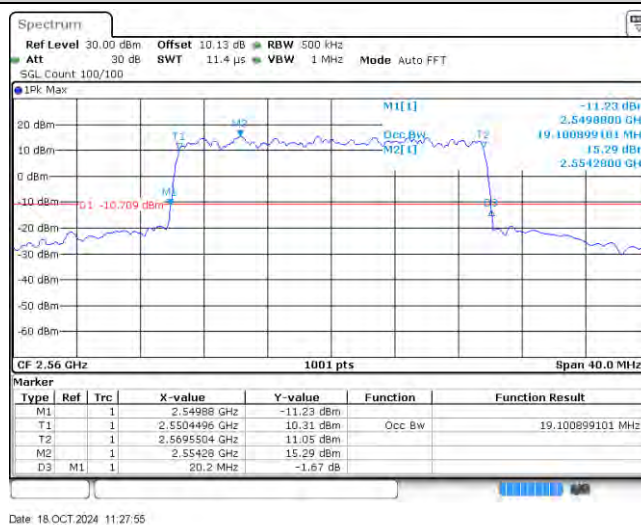




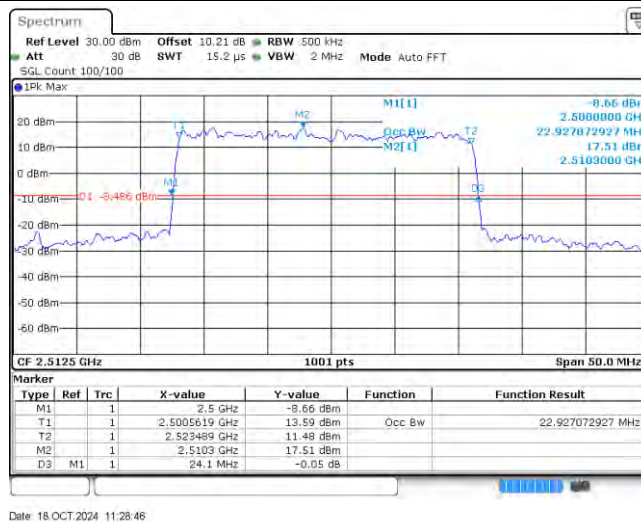
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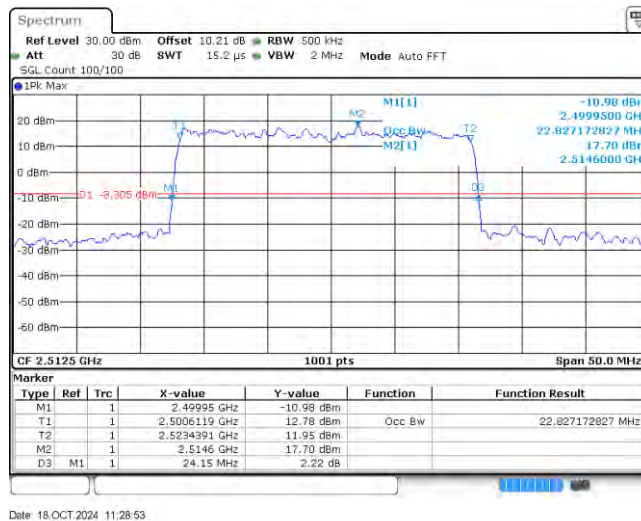
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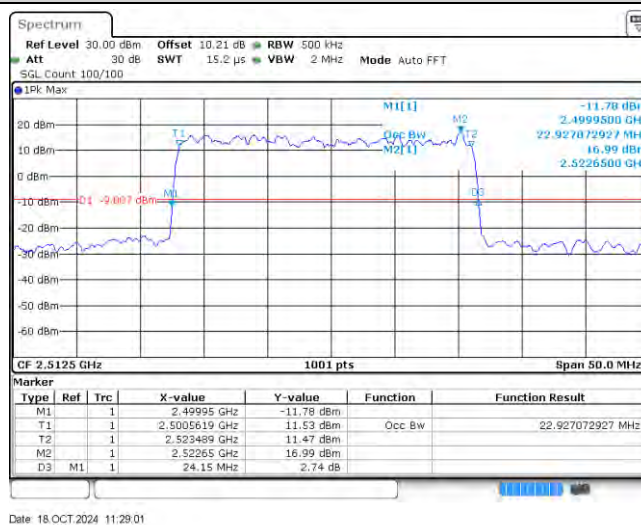
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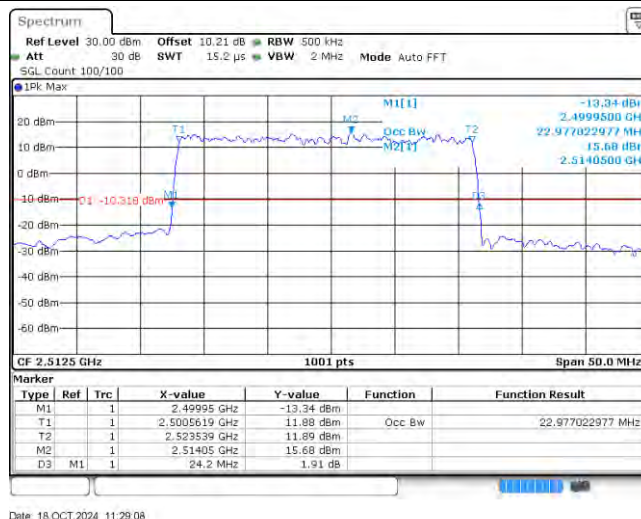
1-N7-PC3-15-25-L-1-DFT-QPSK-Outer_Full-128@0-Ant5-22.927-24.100-≤25-PASS



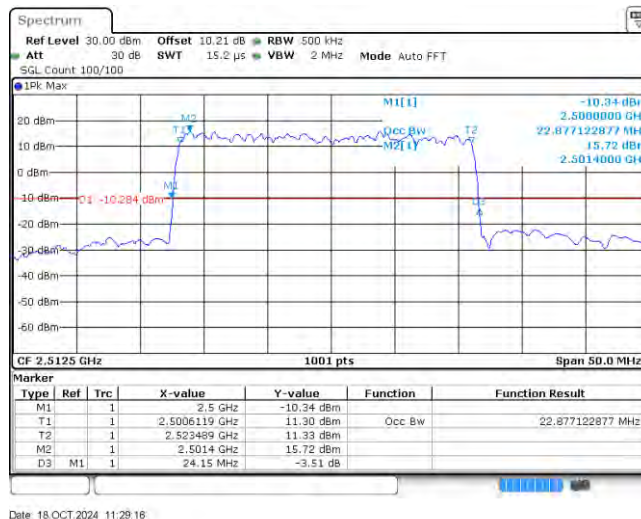
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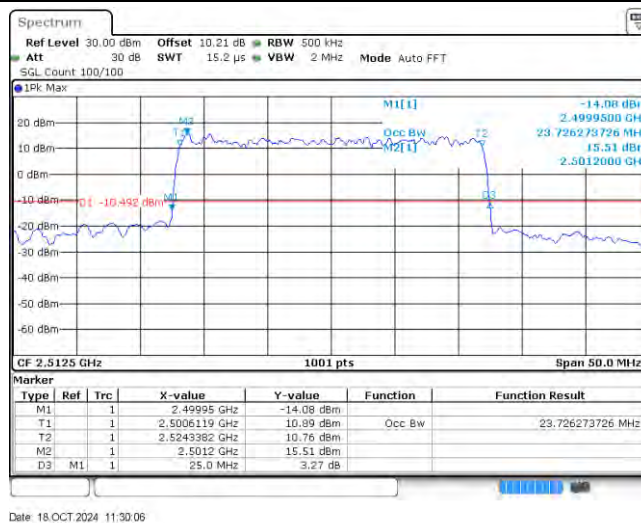
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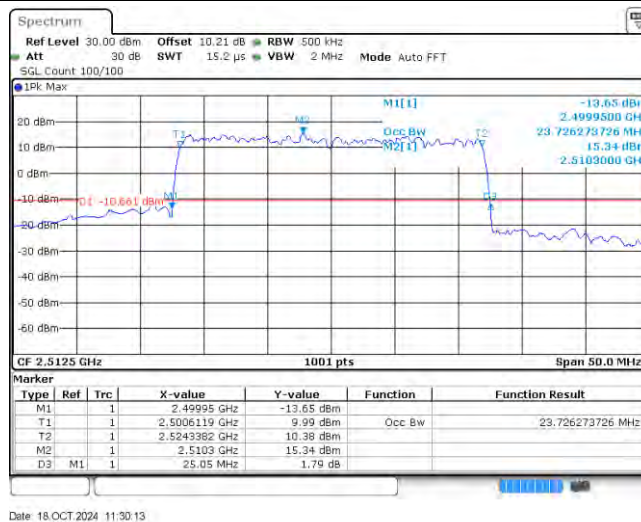
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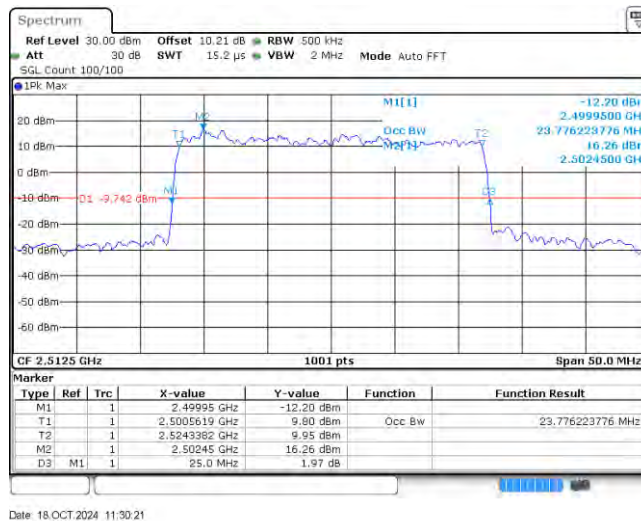
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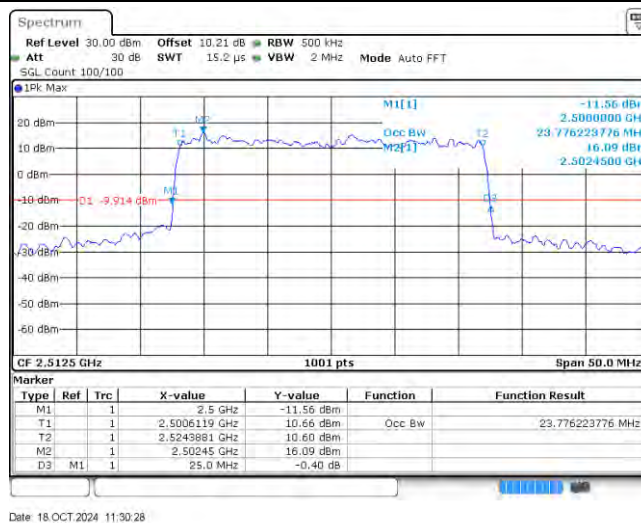
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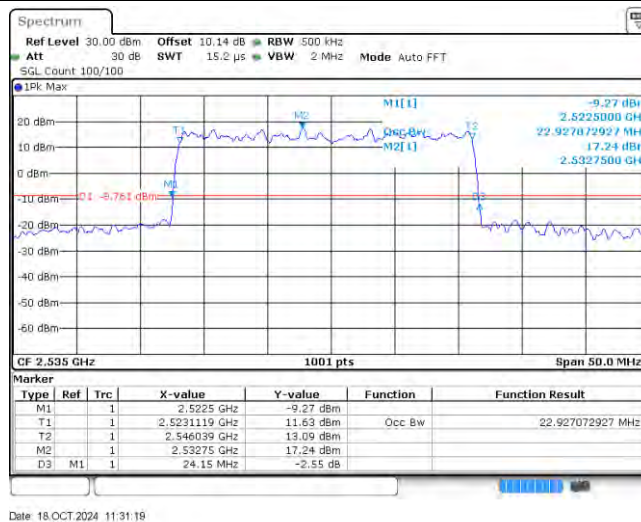
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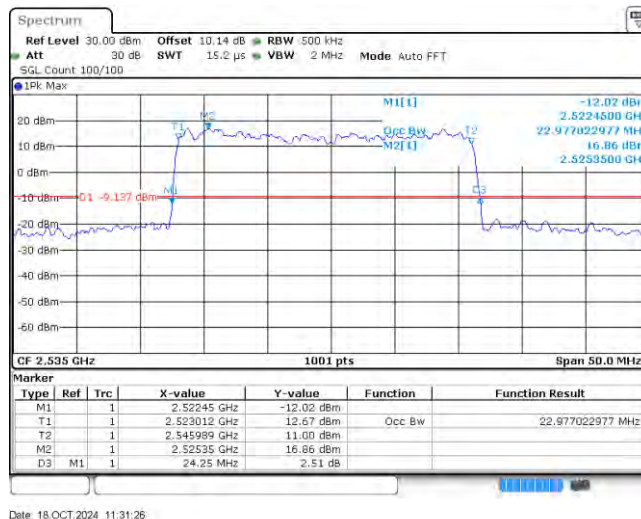
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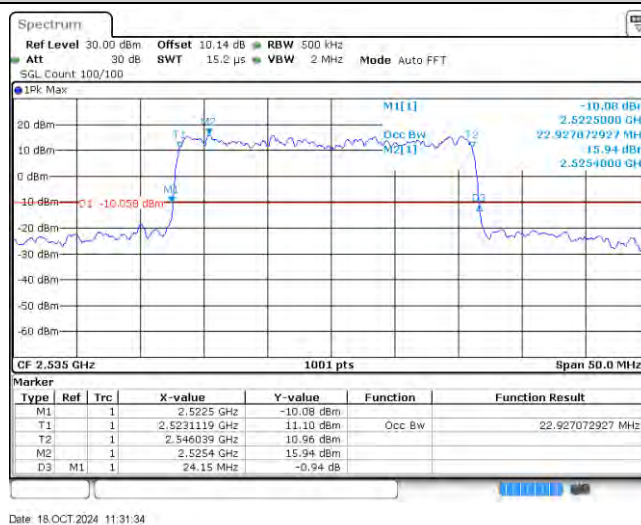
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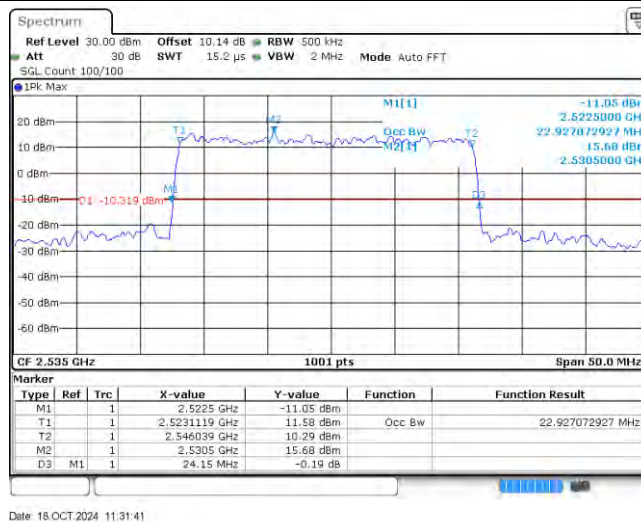
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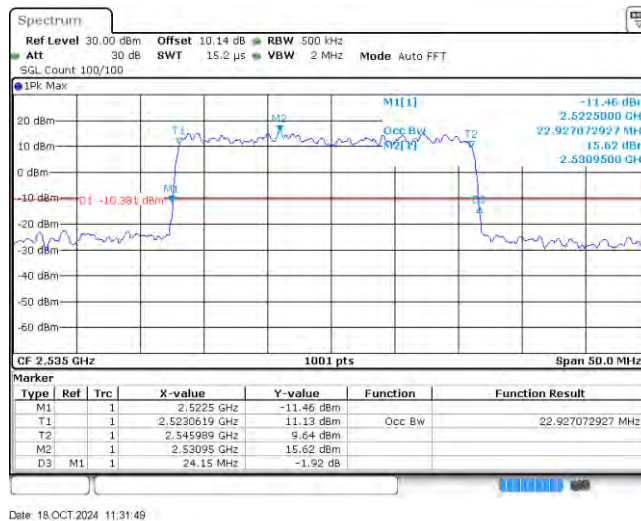
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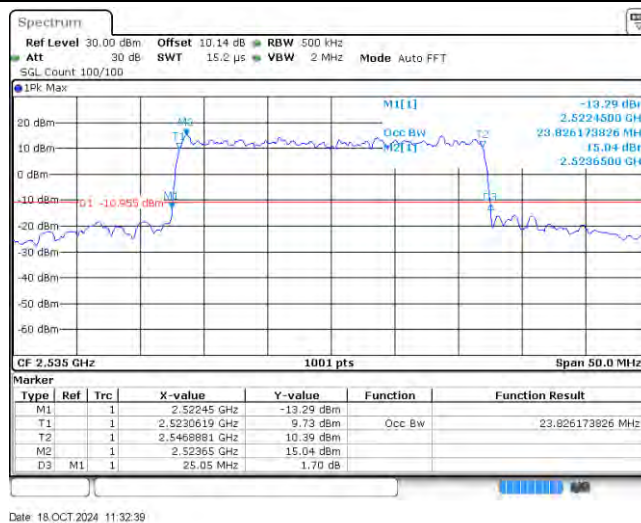
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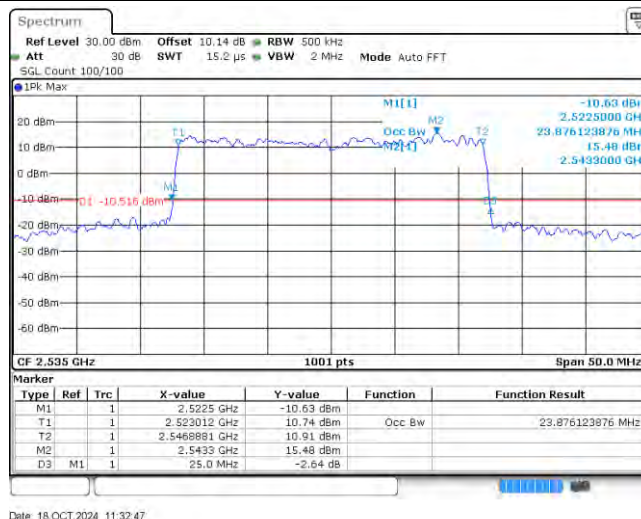
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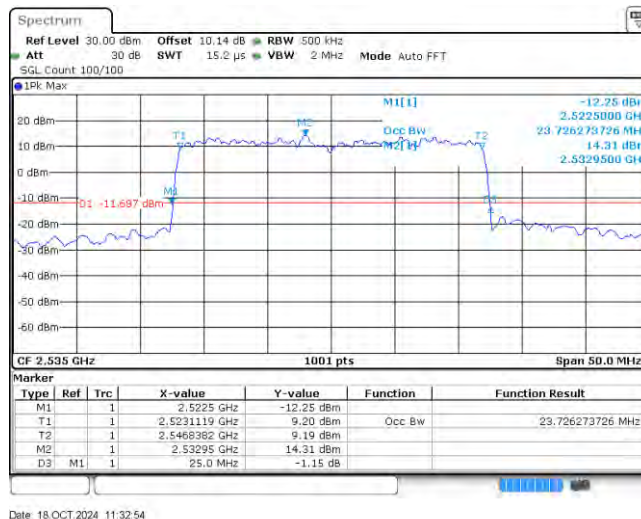
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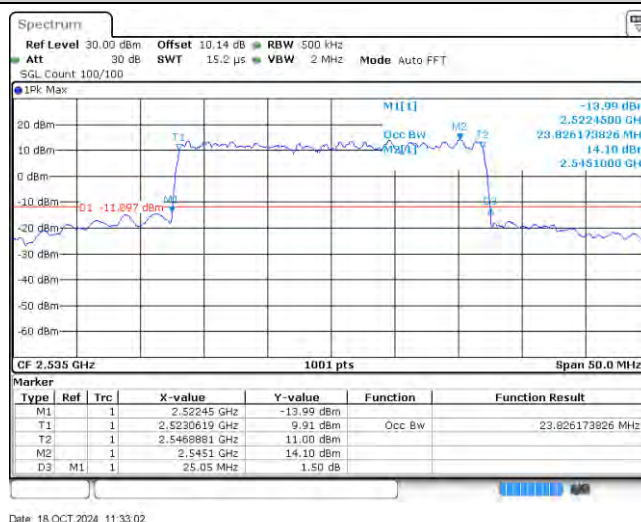
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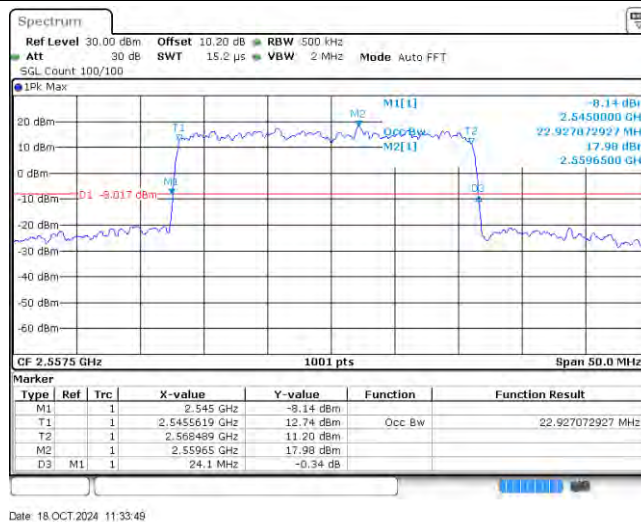
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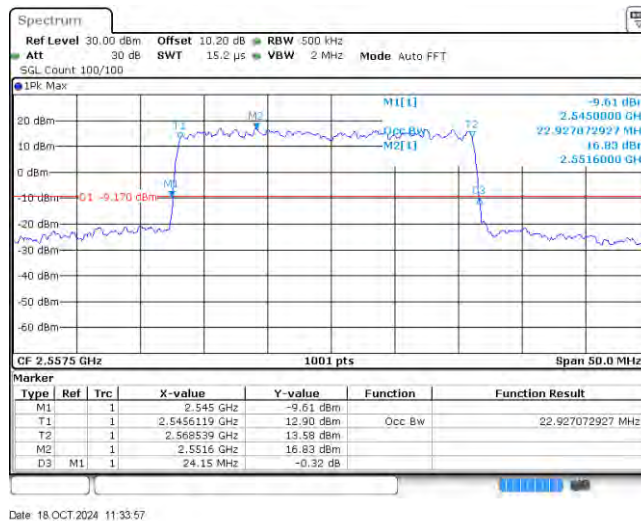
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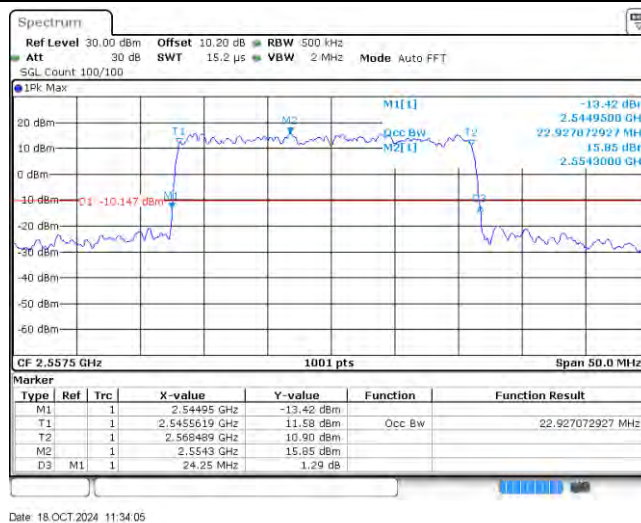
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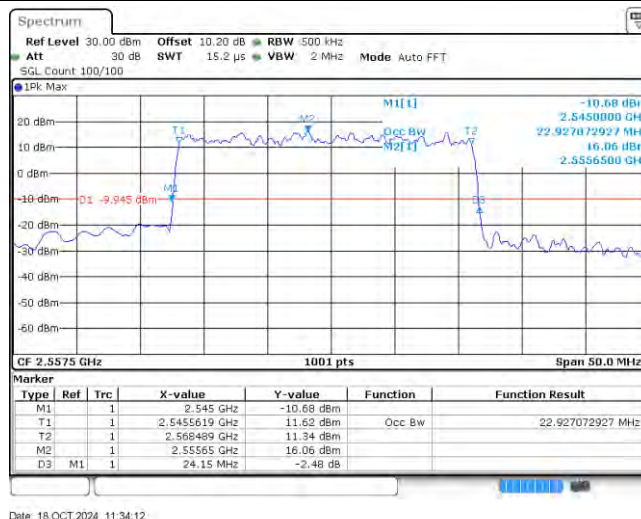
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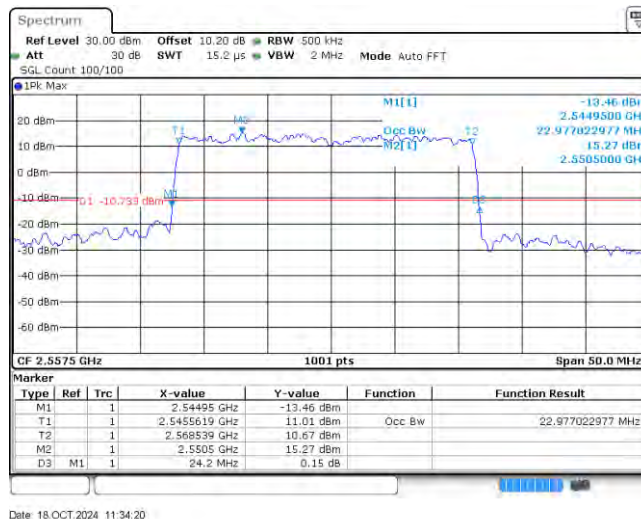
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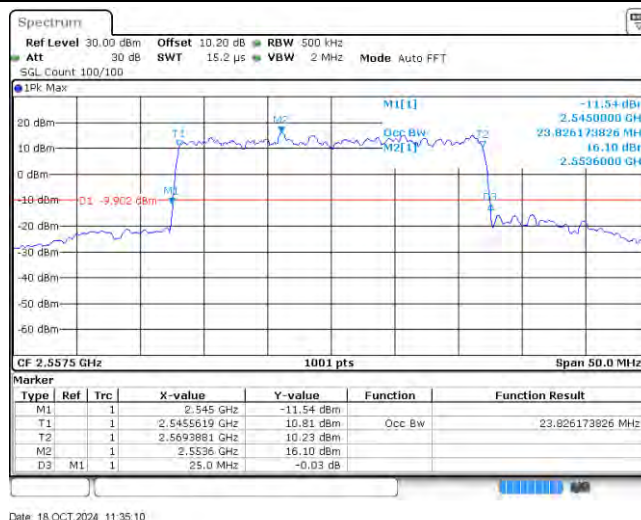
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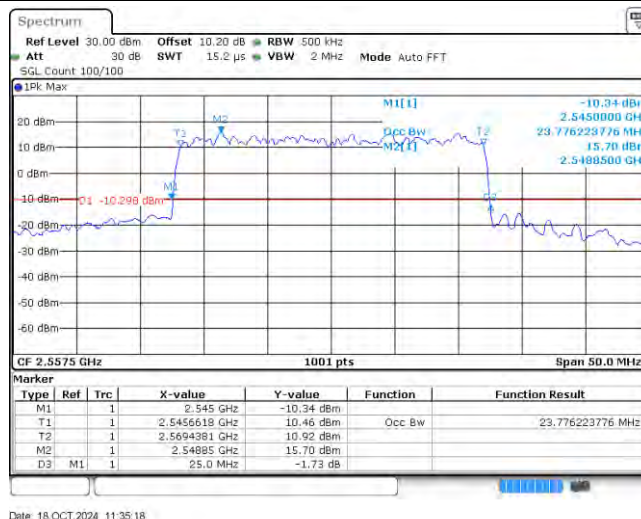
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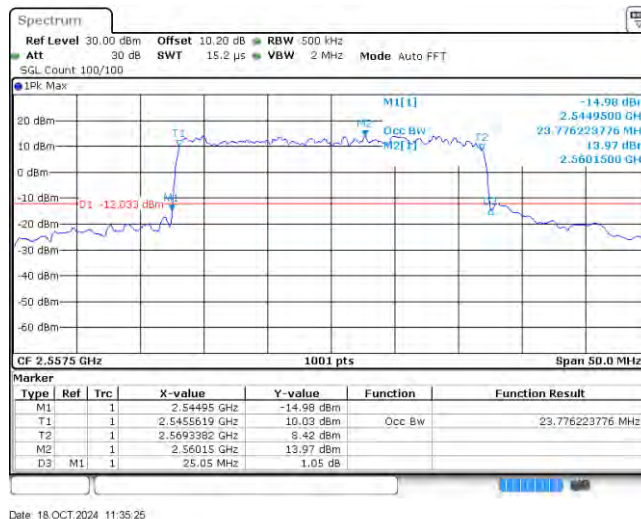
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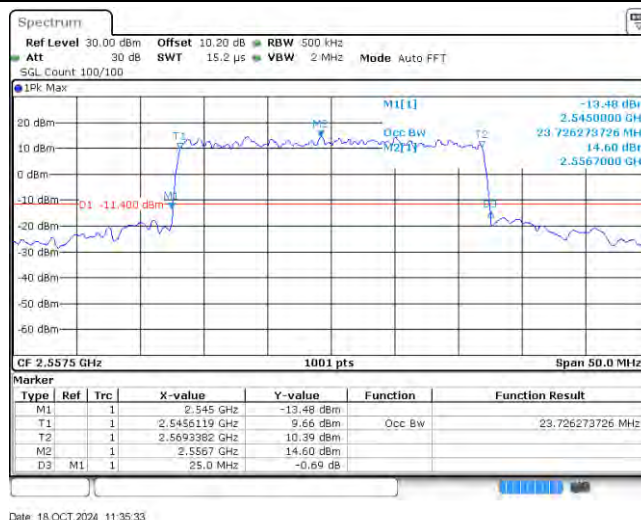
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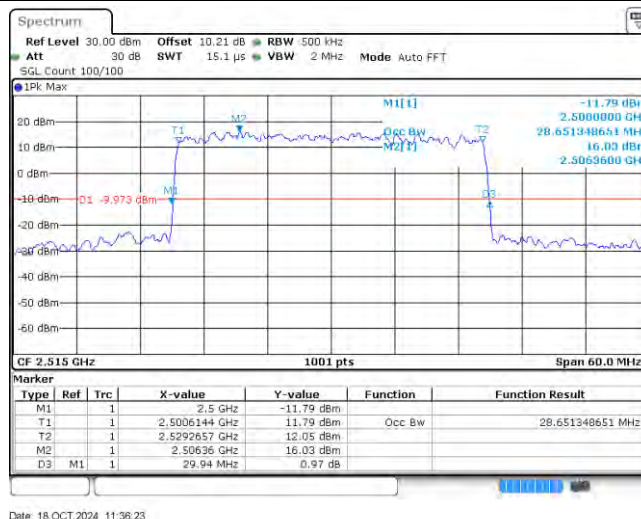
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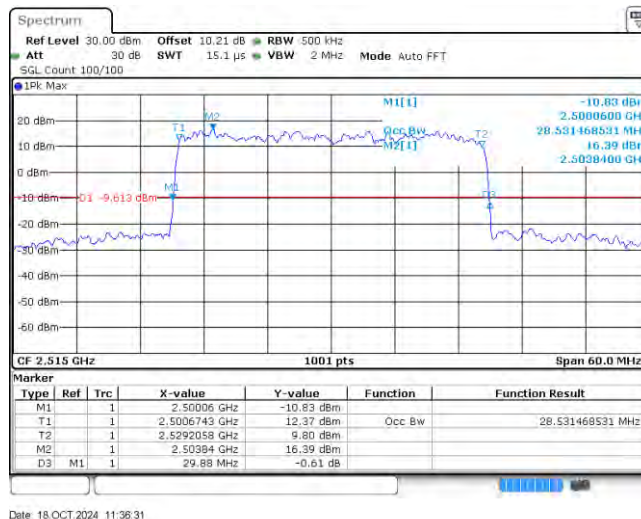
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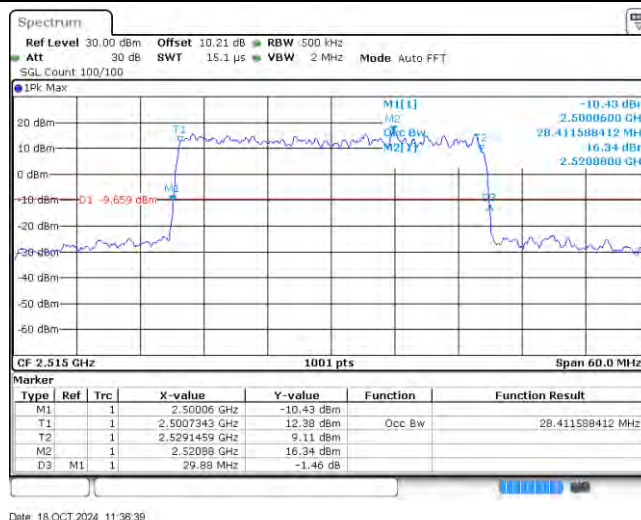
1-N7-PC3-15-25-H-9-CP-256QAM-Outer_Full-133@0-Ant5-23.726-25.000-≤25-PASS



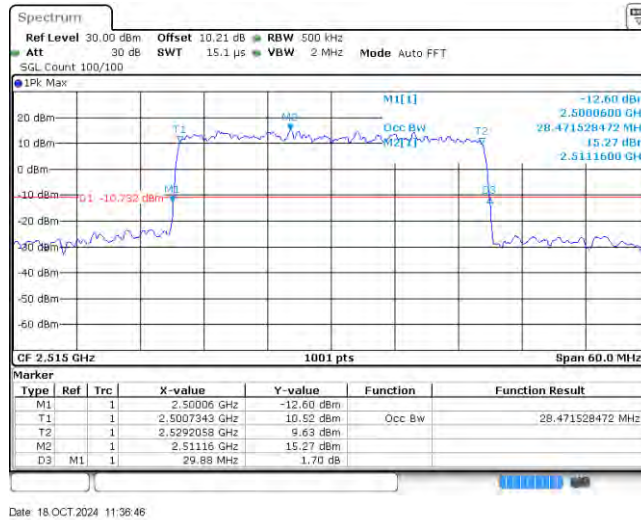
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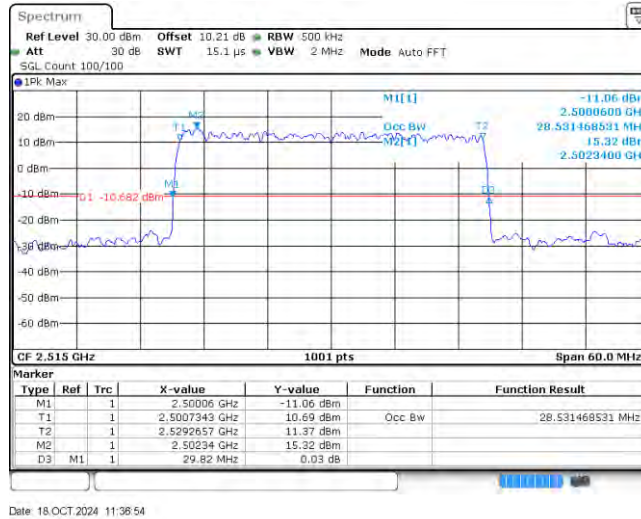
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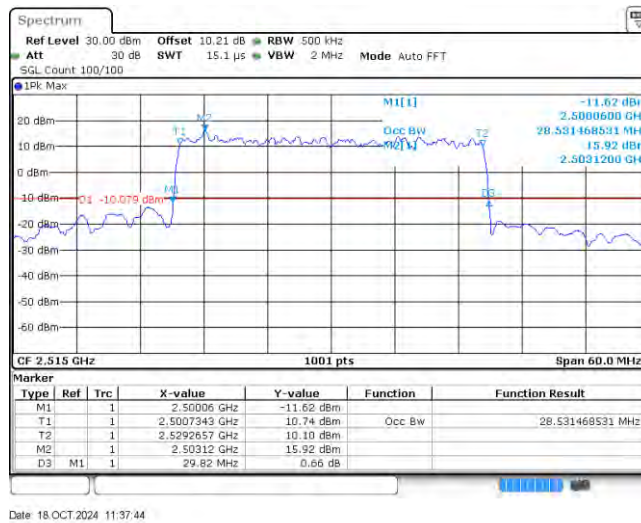
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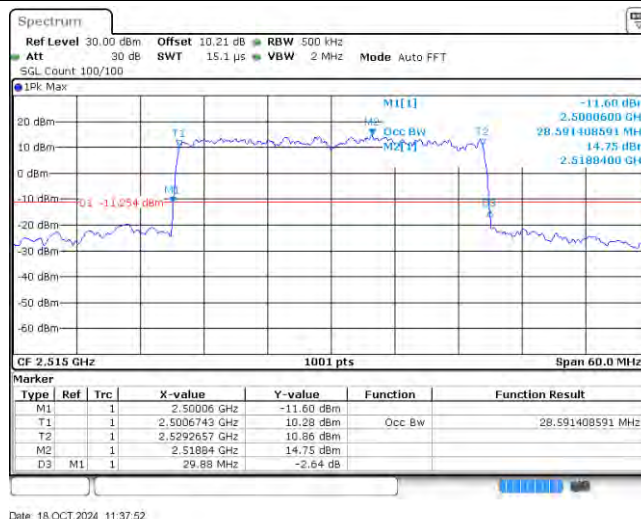
1-N7-PC3-15-30-L-4-DFT-64QAM-Outer_Full-160@0-Ant5-28.472-29.880-≤30-PASS



1-N7-PC3-15-30-L-5-DFT-256QAM-Outer_Full-160@0-Ant5-28.531-29.820-≤30-PASS



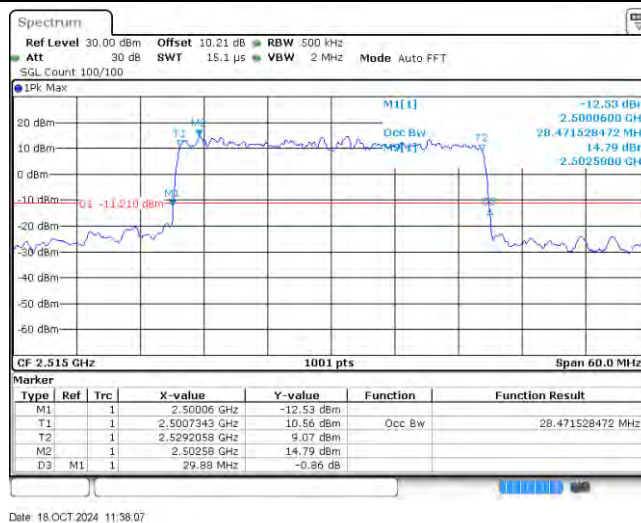
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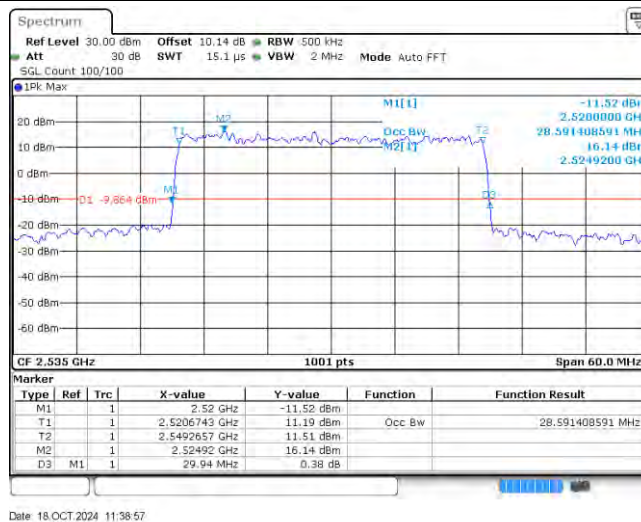
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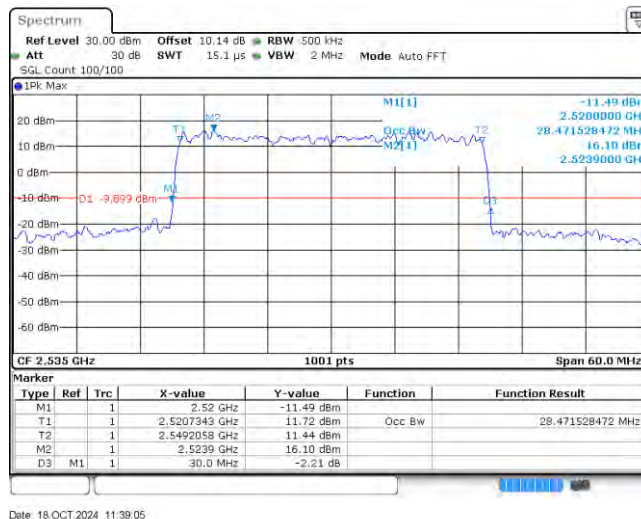
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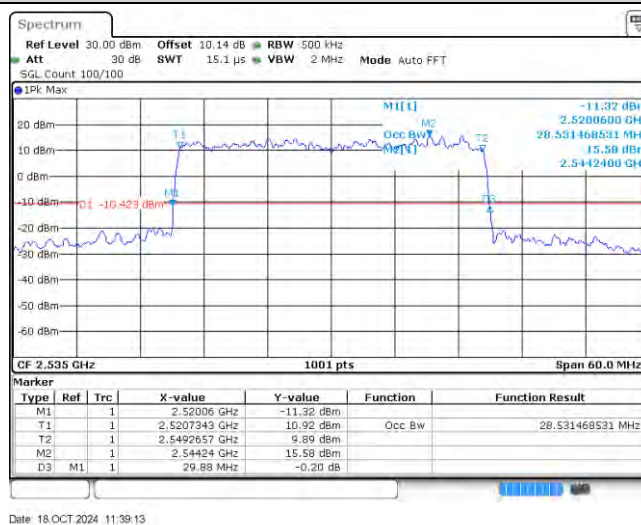
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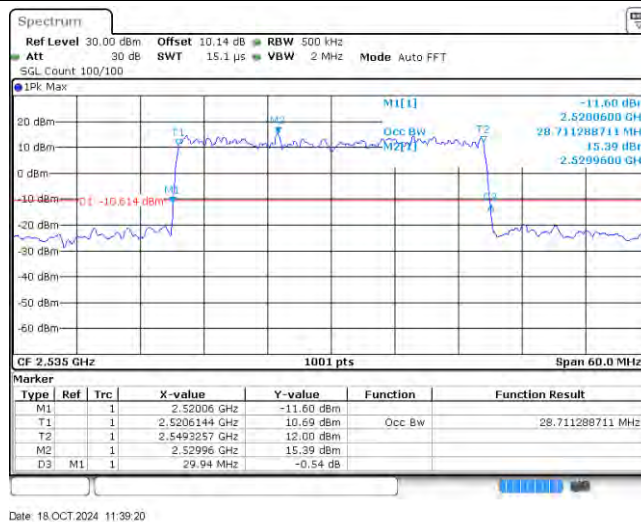
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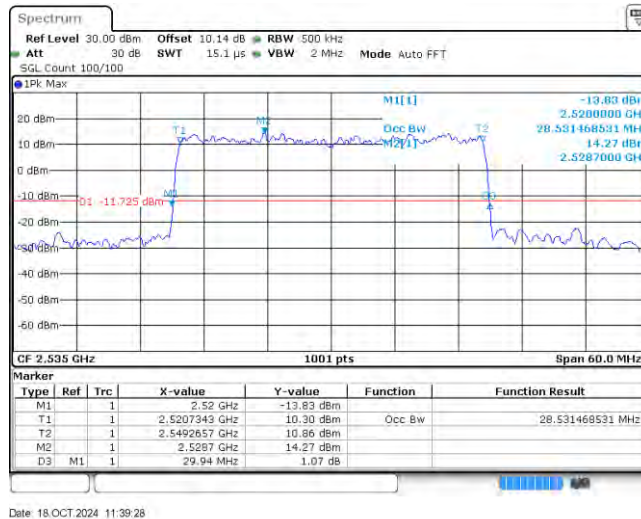
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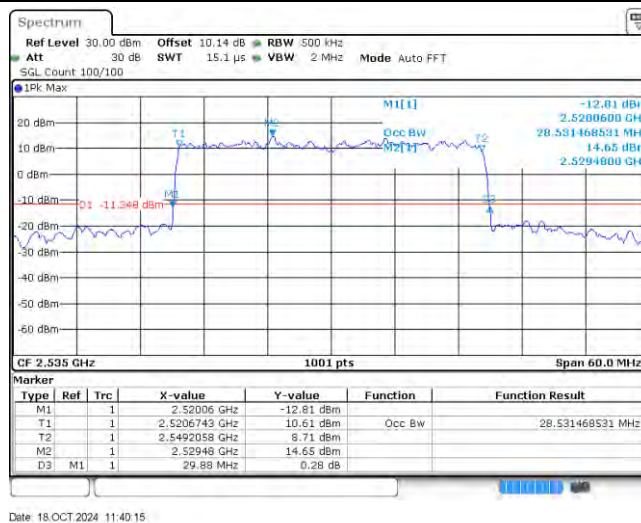
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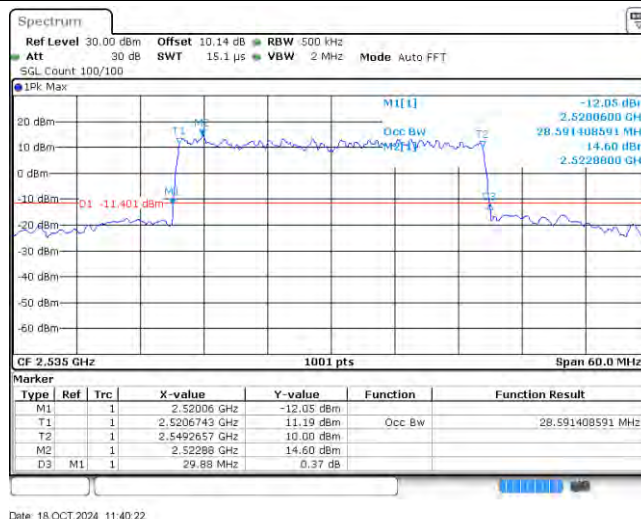
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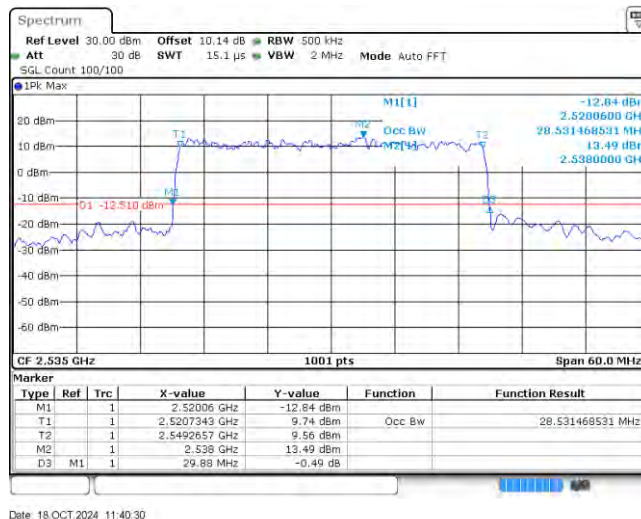
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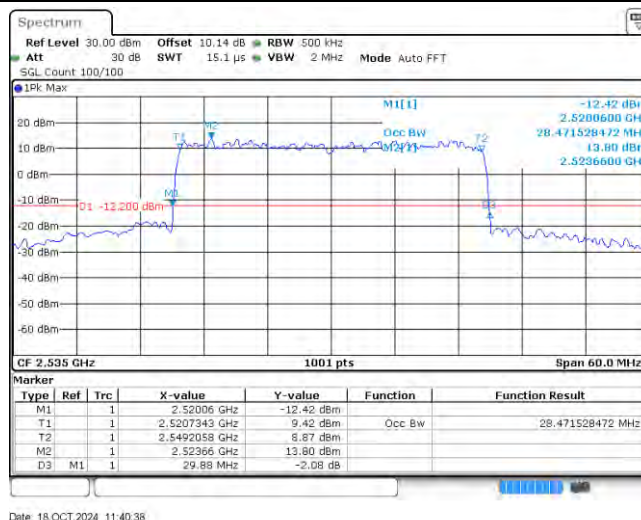
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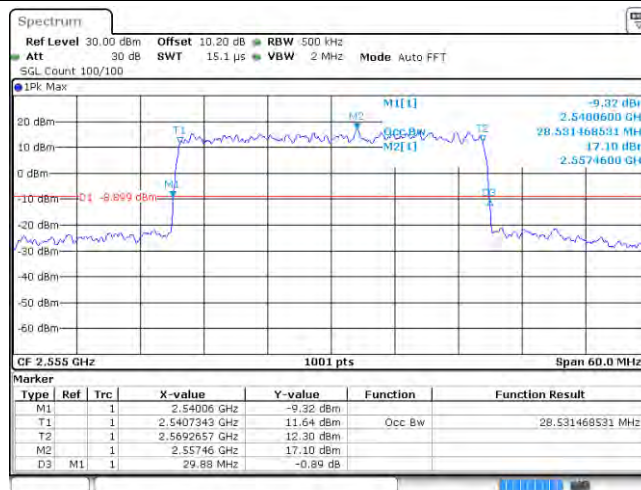
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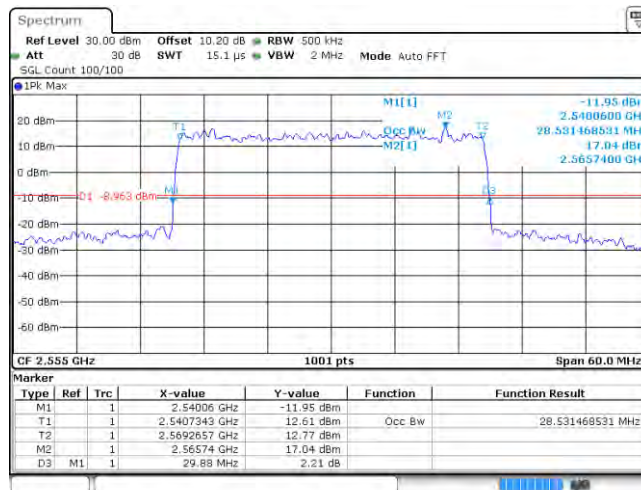


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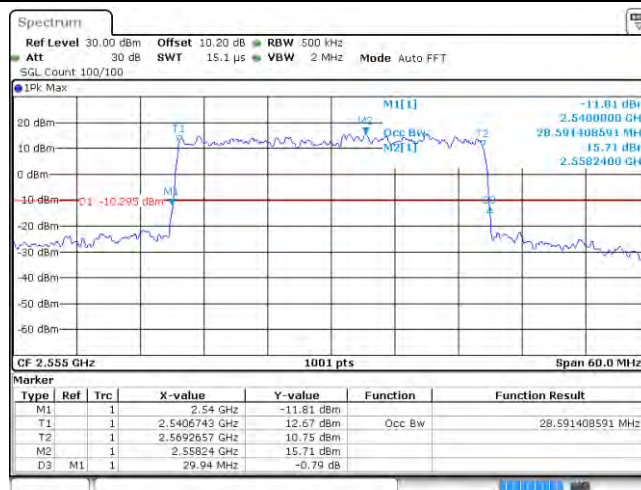
Date 18.OCT.2024 11:41:25

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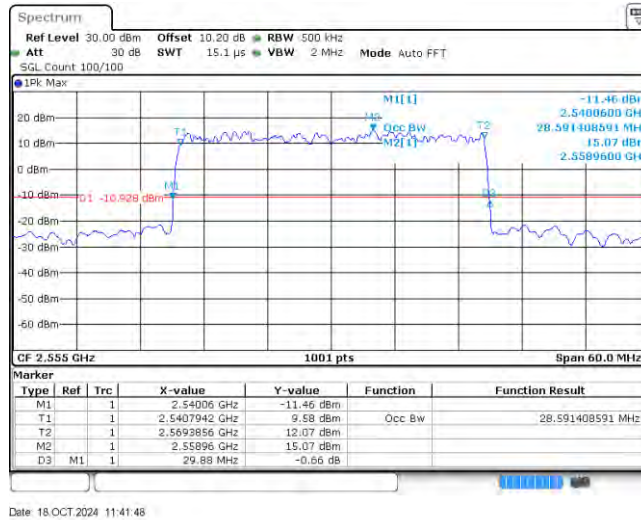
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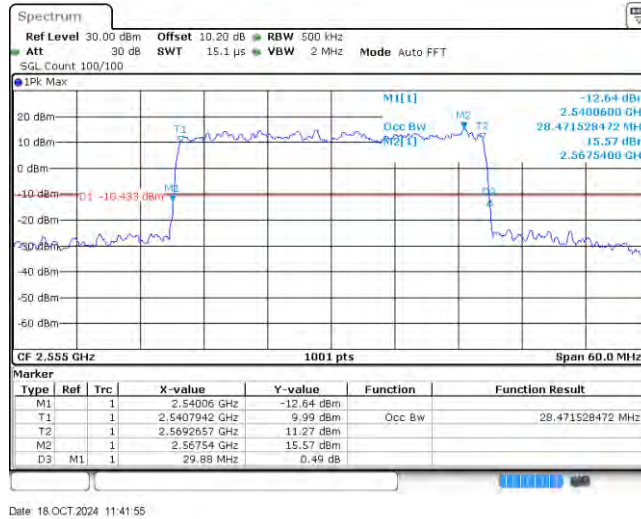


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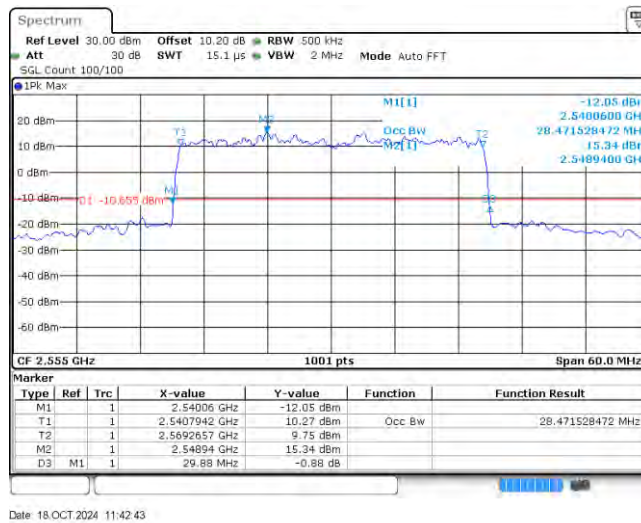
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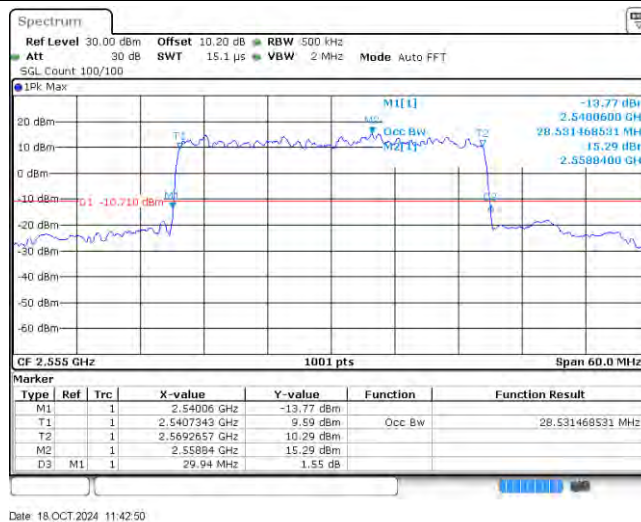
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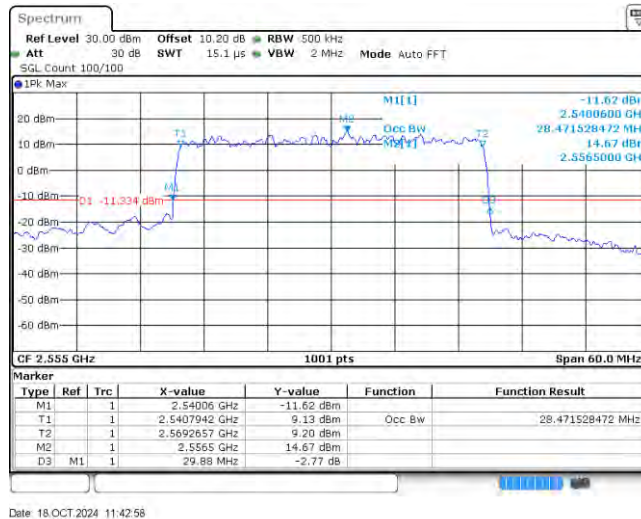
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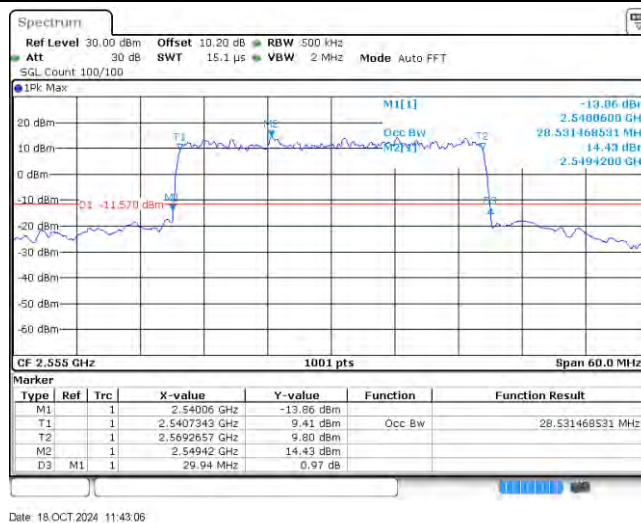
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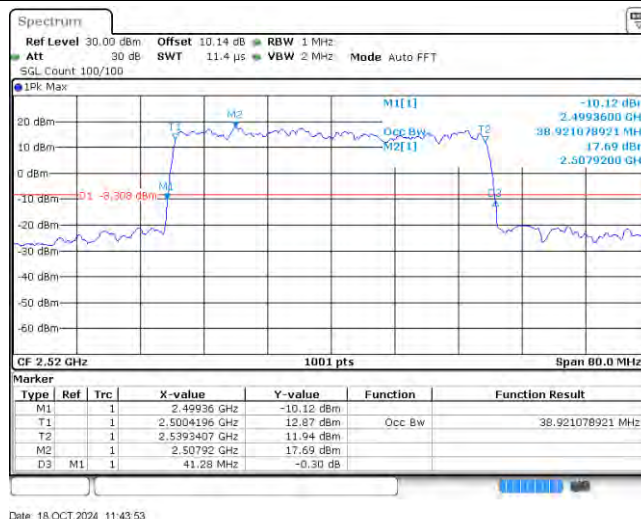
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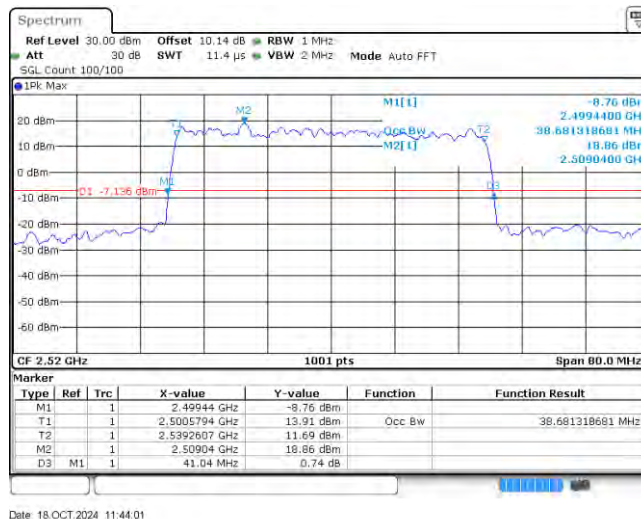
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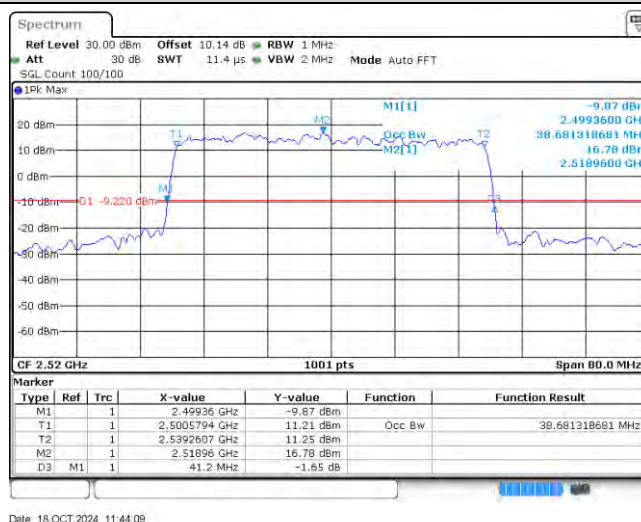
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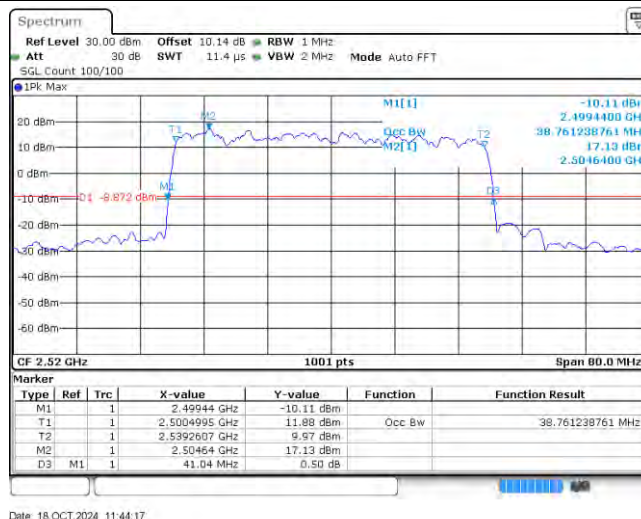
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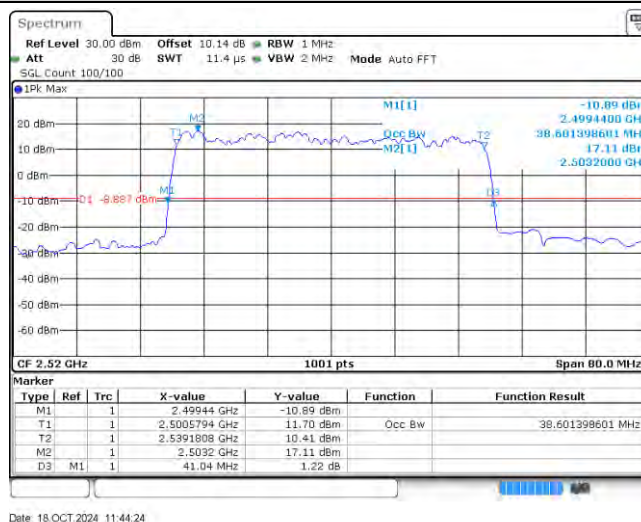
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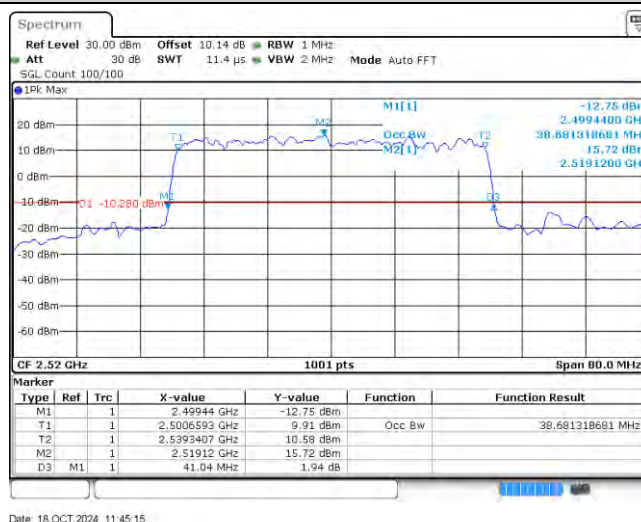
1-N7-PC3-15-40-L-3-DFT-16QAM-Outer_Full-216@0-Ant5-38.681-41.200-≤40-PASS



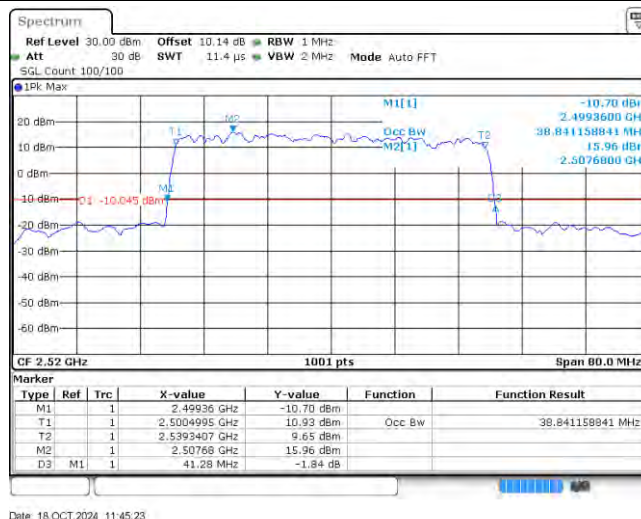
1-N7-PC3-15-40-L-4-DFT-64QAM-Outer_Full-216@0-Ant5-38.761-41.040-≤40-PASS



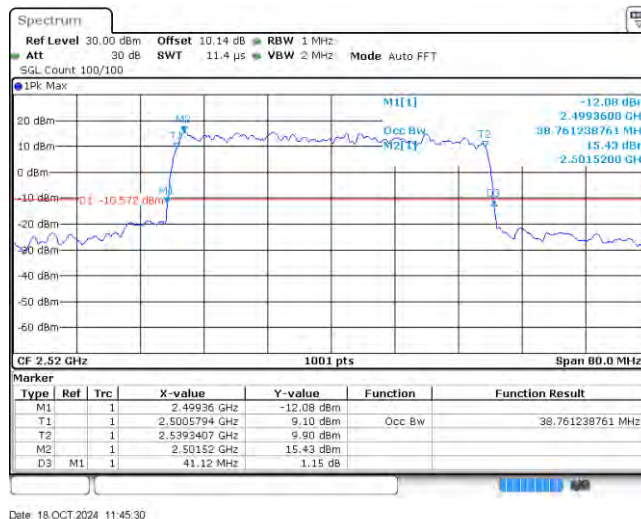
1-N7-PC3-15-40-L-5-DFT-256QAM-Outer_Full-216@0-Ant5-38.601-41.040-≤40-PASS



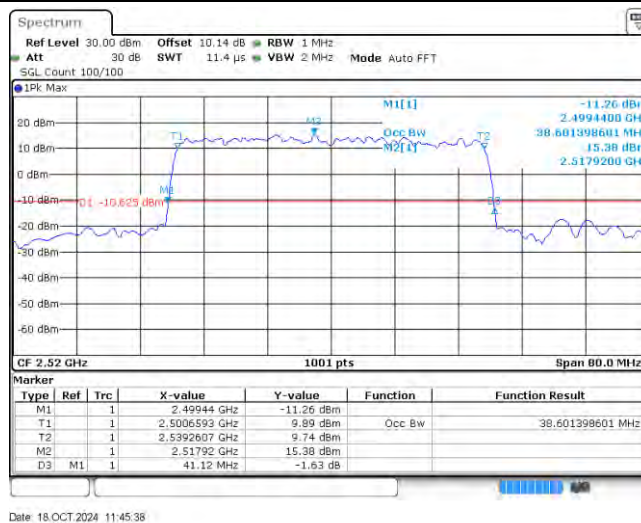
1-N7-PC3-15-40-L-6-CP-QPSK-Outer_Full-216@0-Ant5-38.681-41.040-≤40-PASS



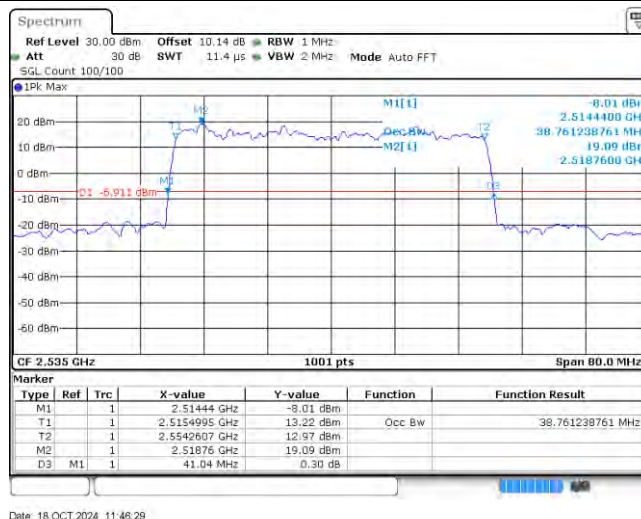
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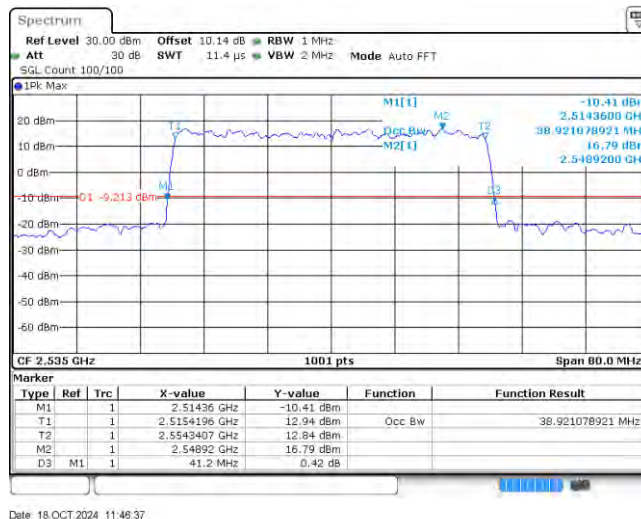
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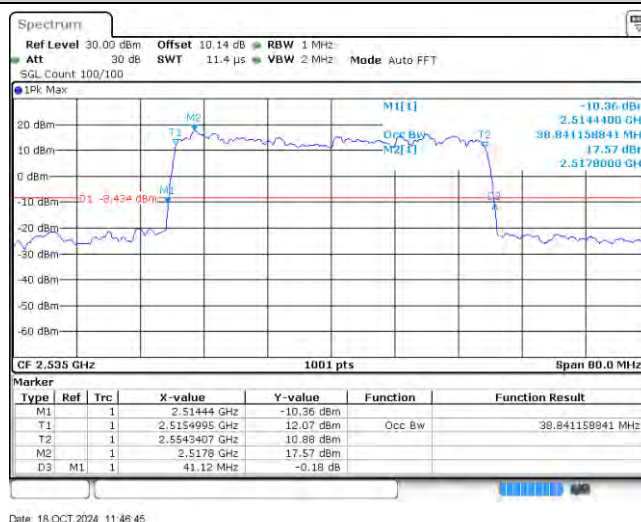
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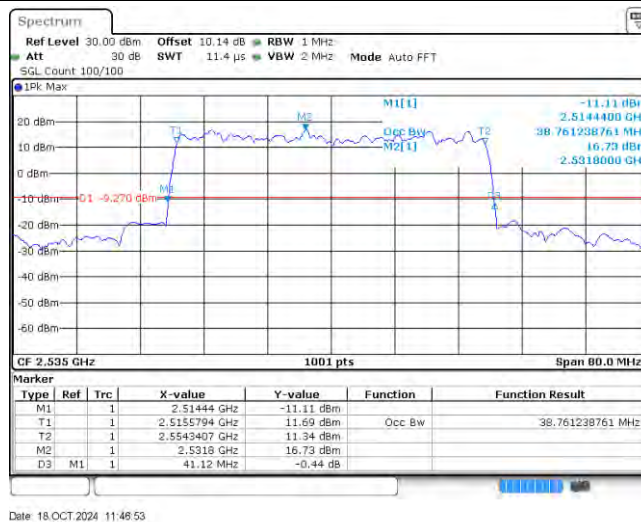
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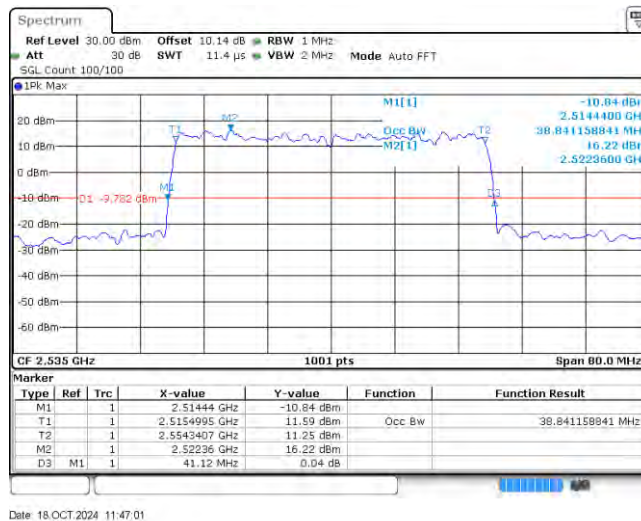
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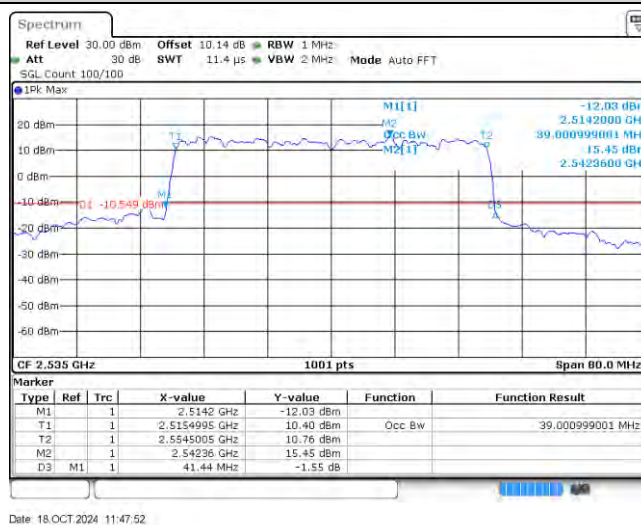
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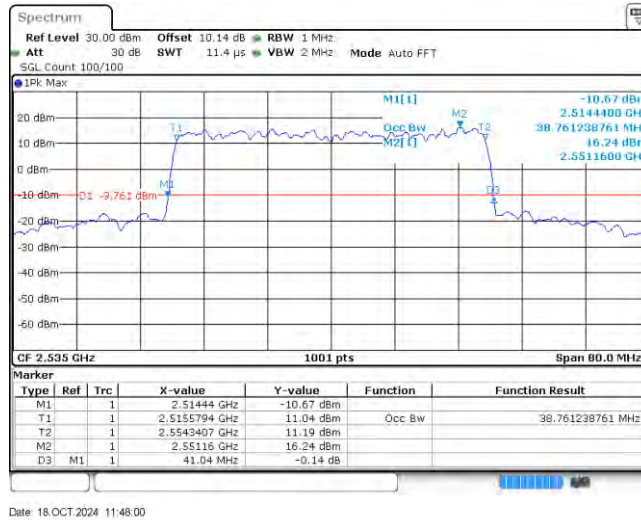
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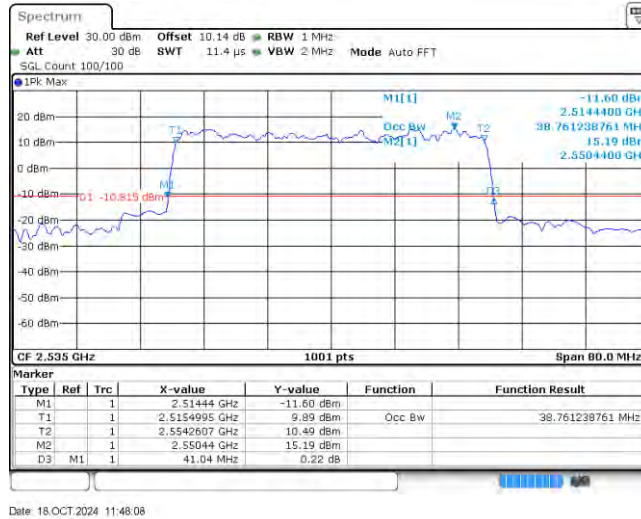
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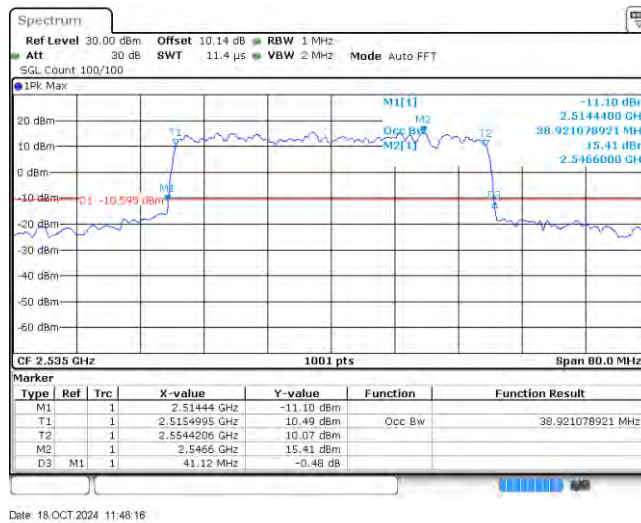
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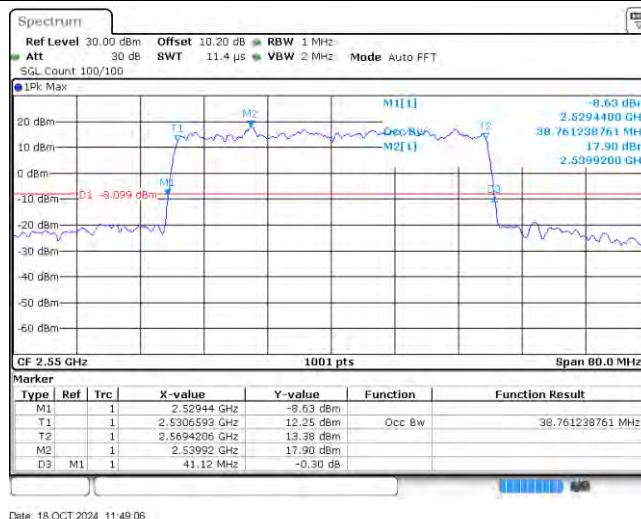
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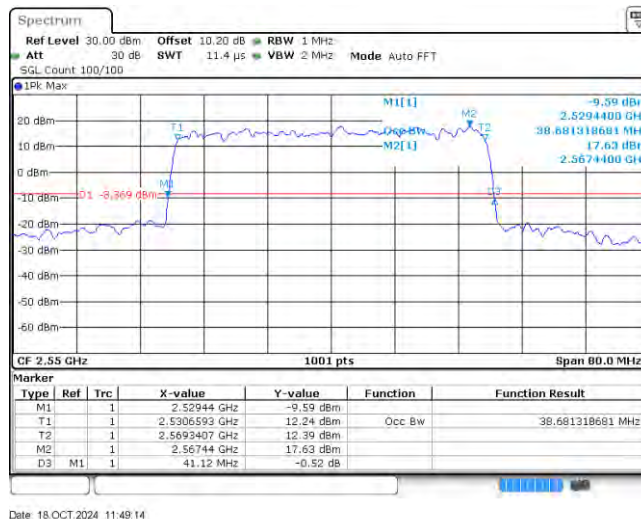
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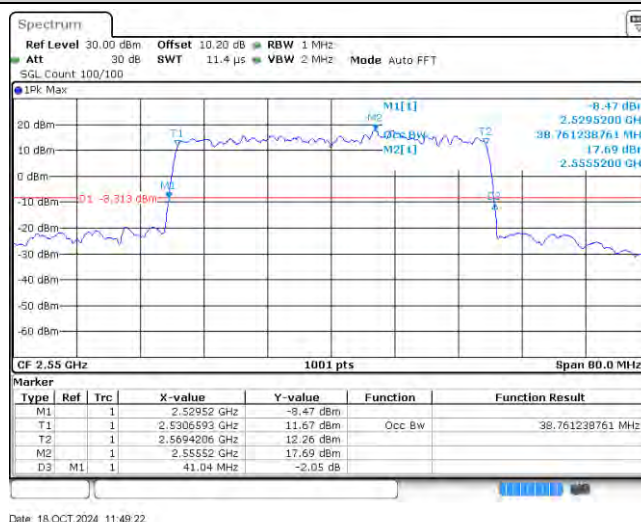
1-N7-PC3-15-40-M-9-CP-256QAM-Outer_Full-216@0-Ant5-38.921-41.120-≤40-PASS



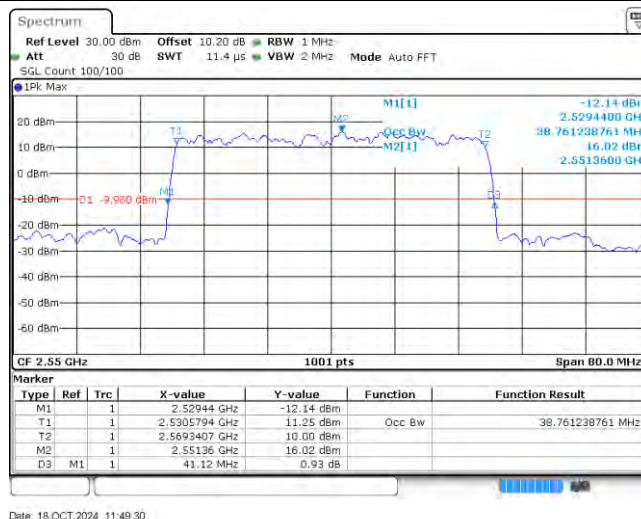
1-N7-PC3-15-40-H-1-DFT-QPSK-Outer_Full-216@0-Ant5-38.761-41.120-≤40-PASS



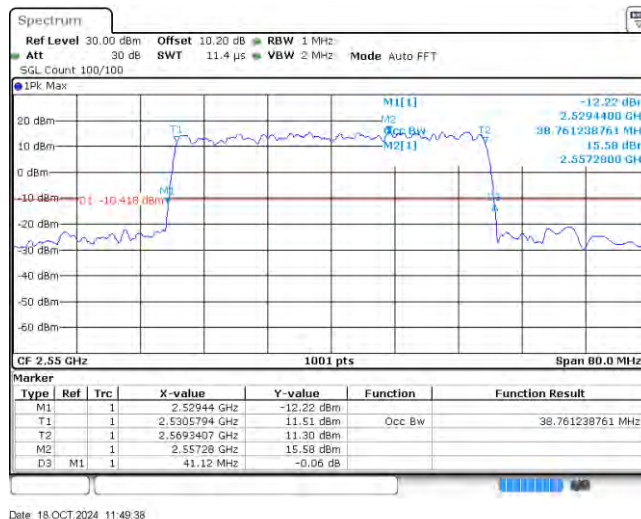
1-N7-PC3-15-40-H-2-DFT-PI2BPSK-Outer_Full-216@0-Ant5-38.681-41.120-≤40-PASS



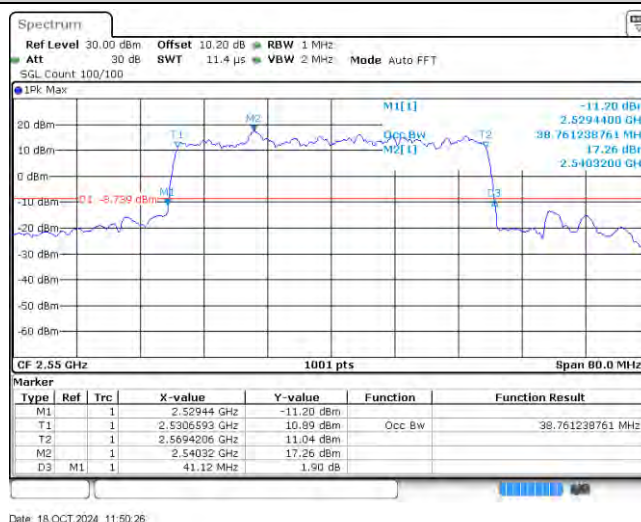
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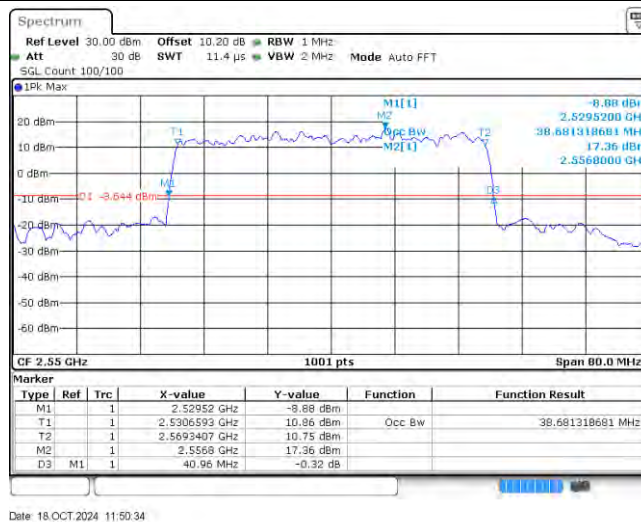
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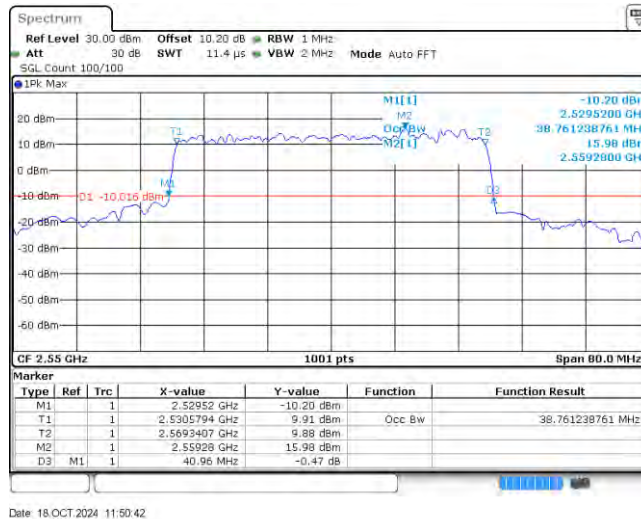
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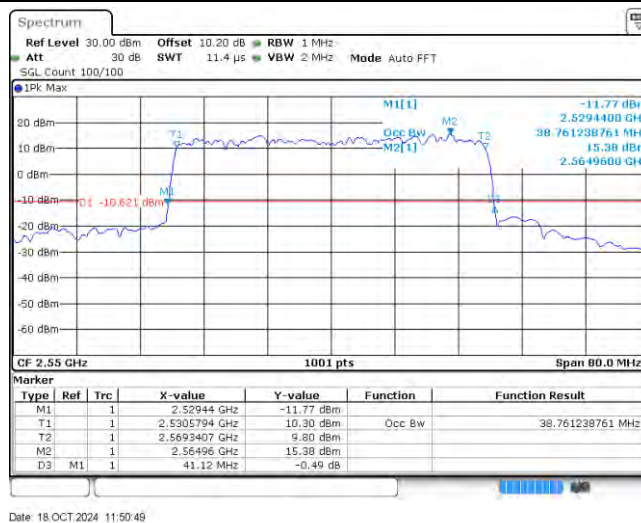
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1-N7-PC3-15-40-H-7-CP-16QAM-Outer_Full-216@0-Ant5-38.681-40.960-≤40-PASS



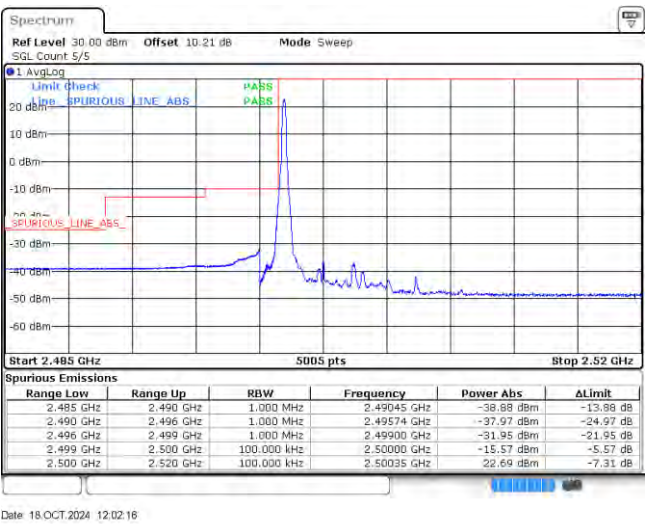
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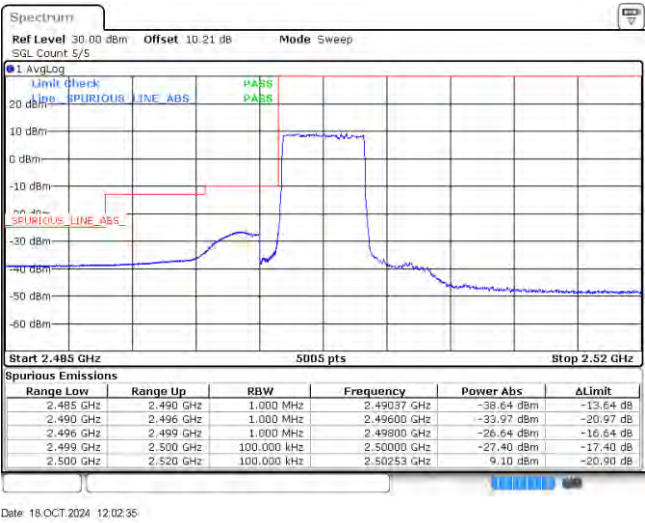
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Band Edge for SA

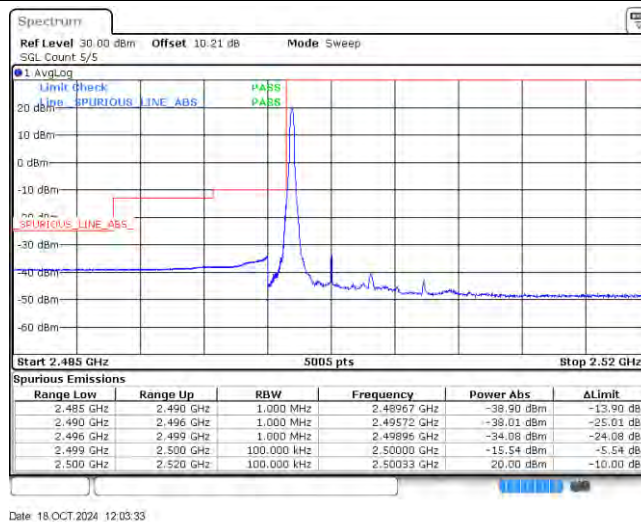
Test Graphs



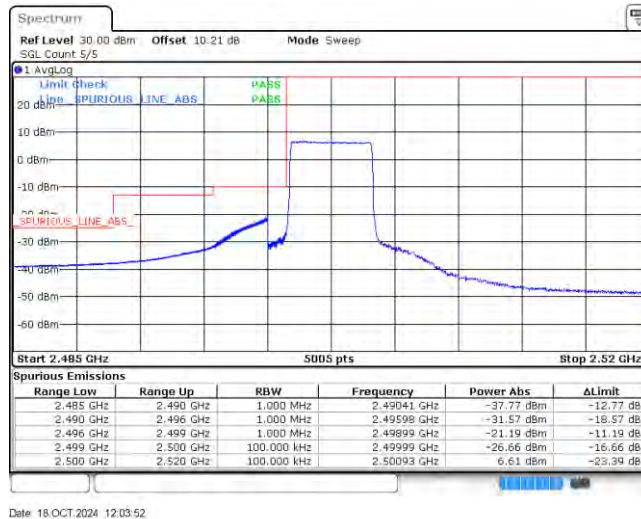
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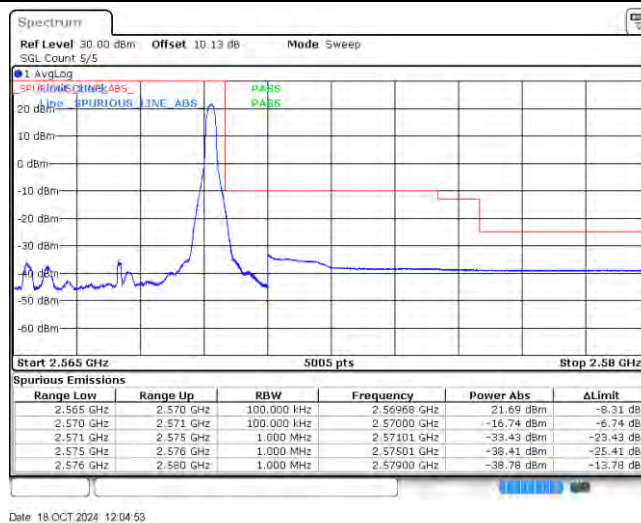
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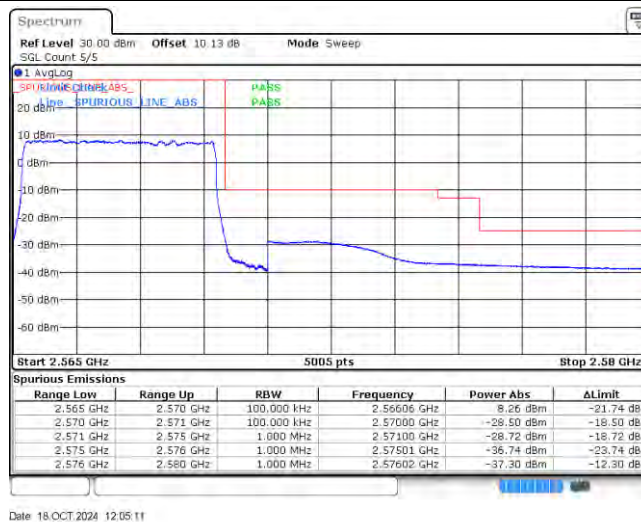
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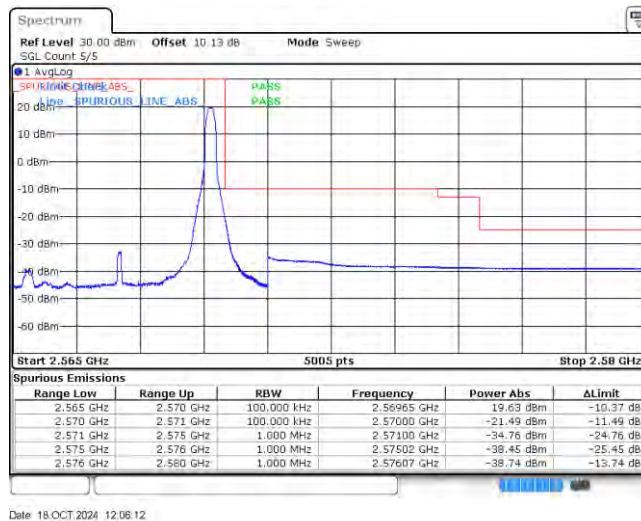
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1-N7-PC3-15-5-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@24-Ant5-2570.00-6.74--16.74-PASS



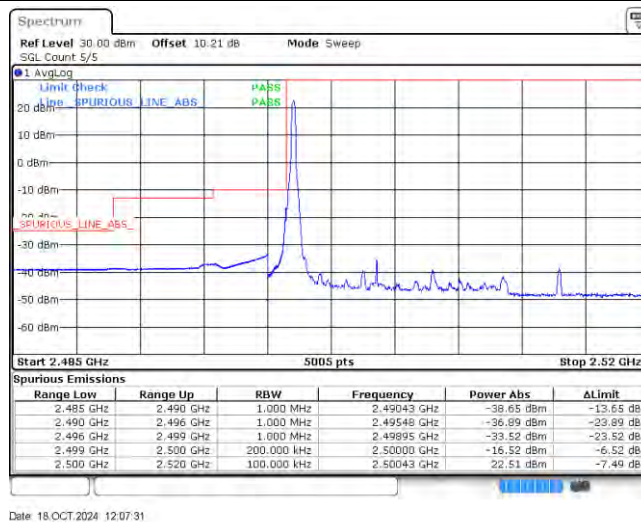
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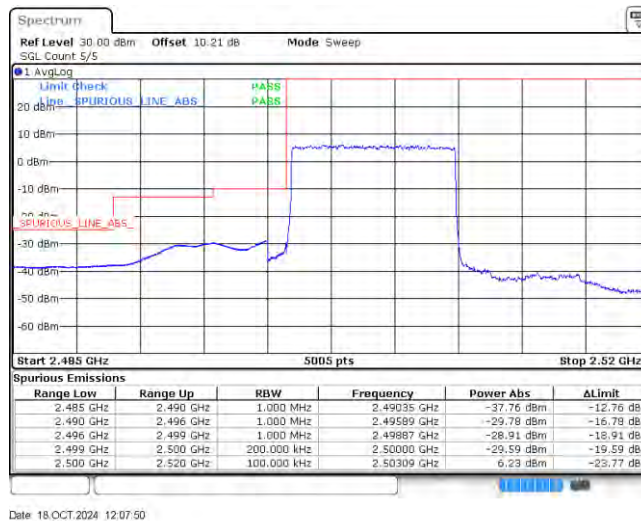
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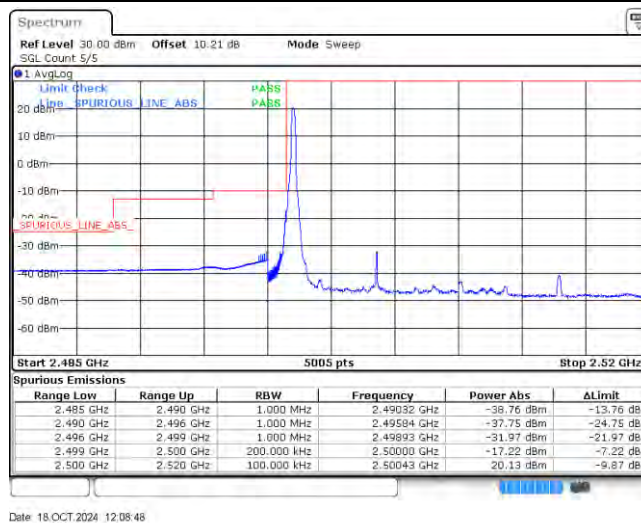
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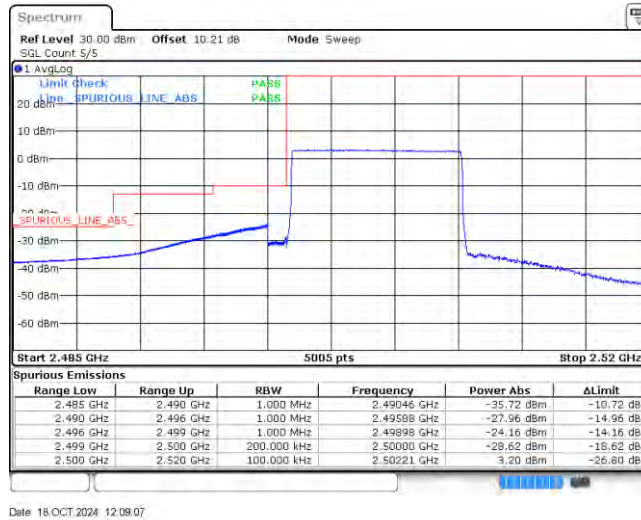
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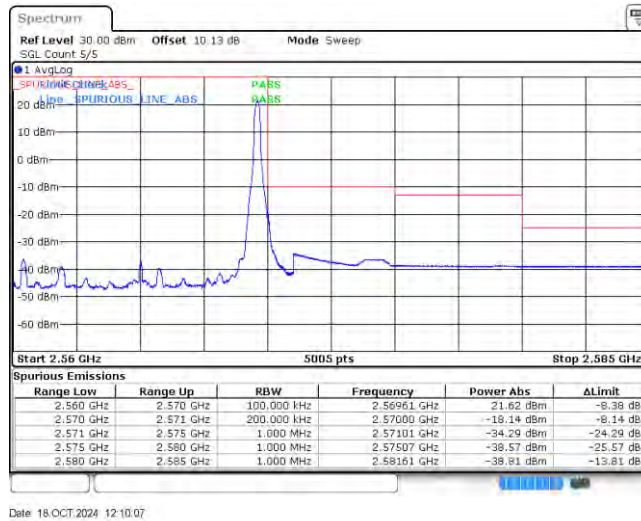
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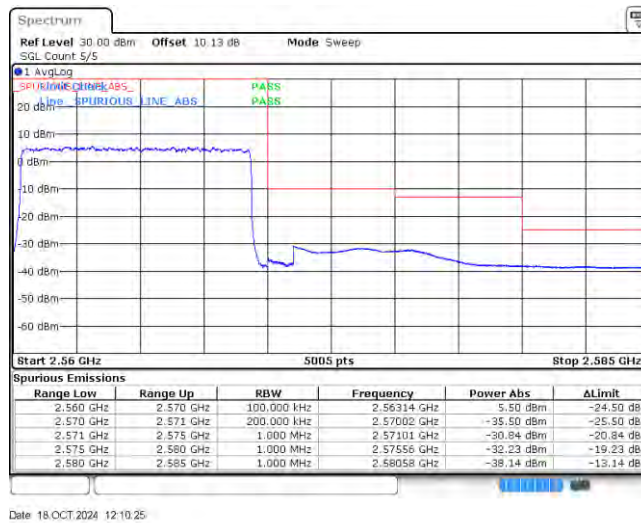
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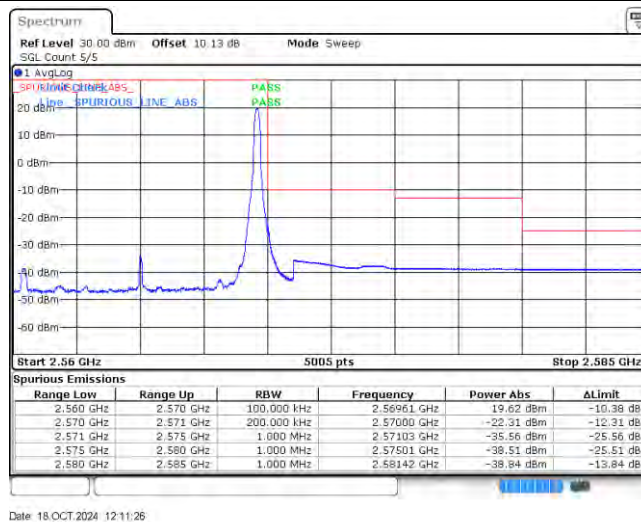
1-N7-PC3-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant5-2490.46-10.72--35.72-PASS



1-N7-PC3-15-10-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@51-Ant5-2570.00-8.14--18.14-PASS



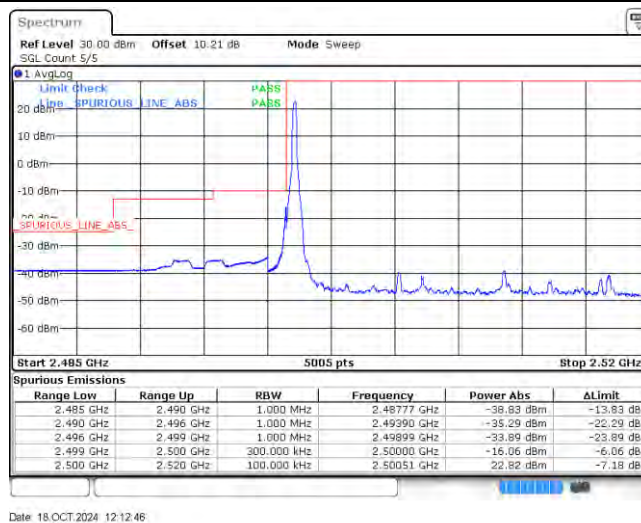
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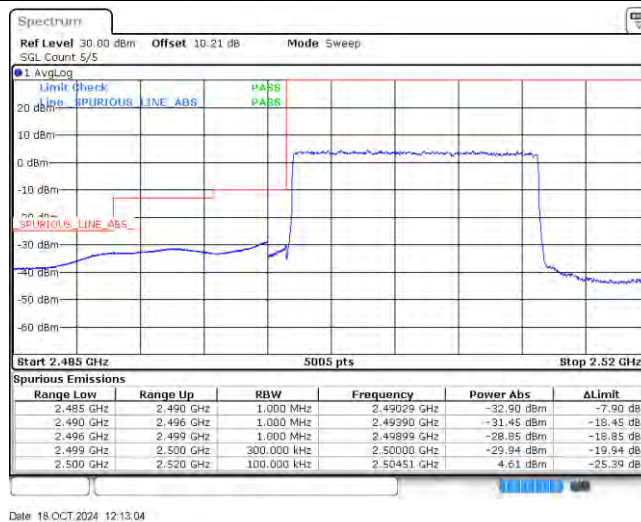
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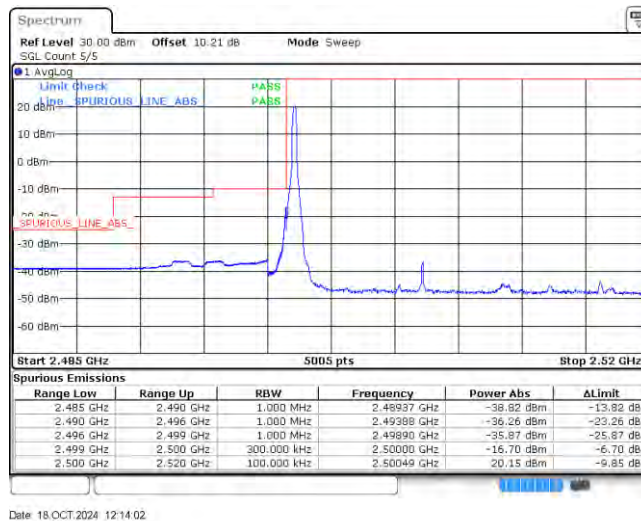
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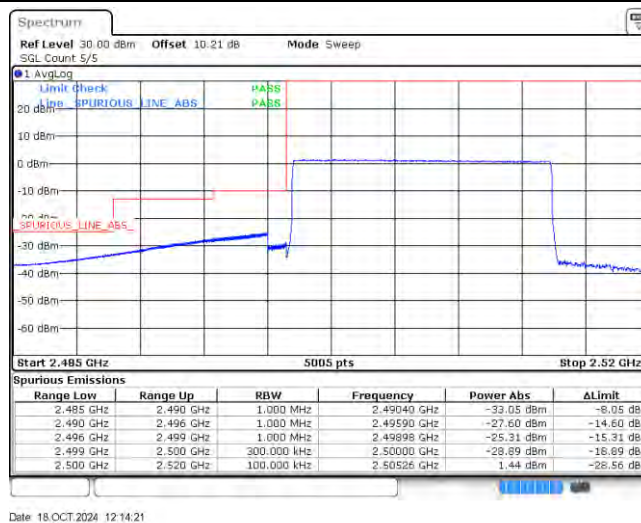
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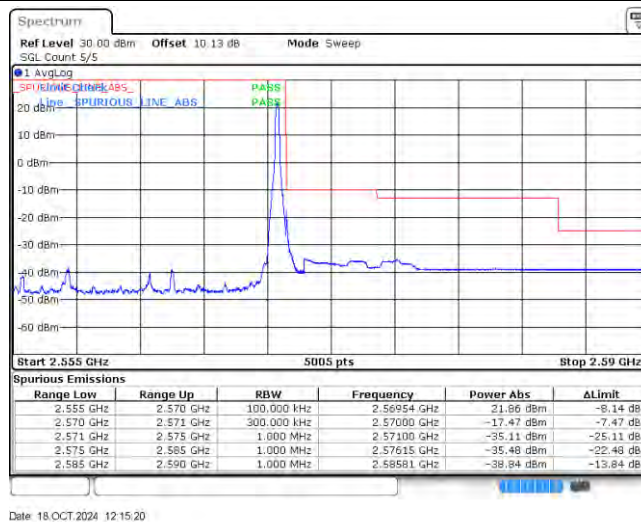
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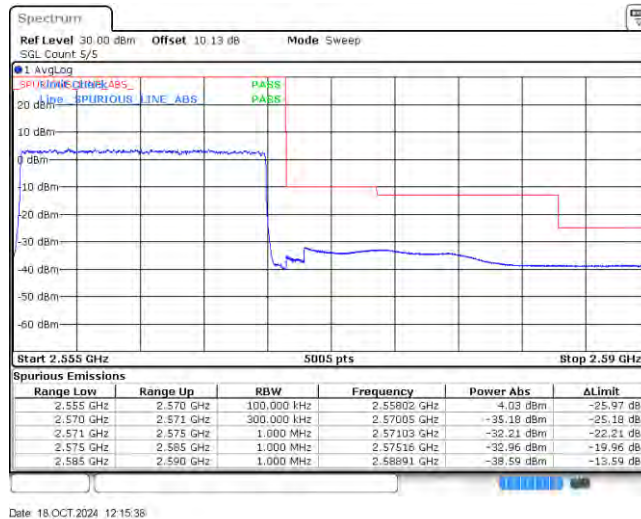
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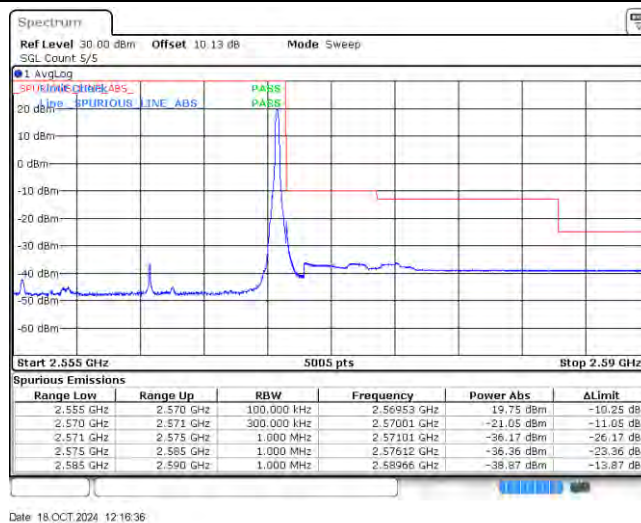
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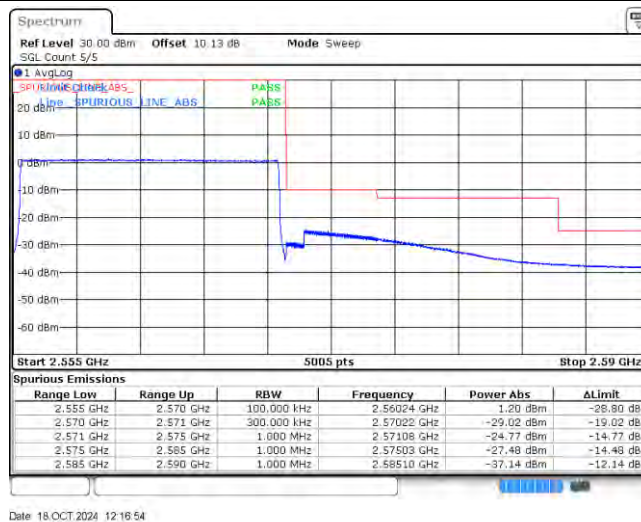
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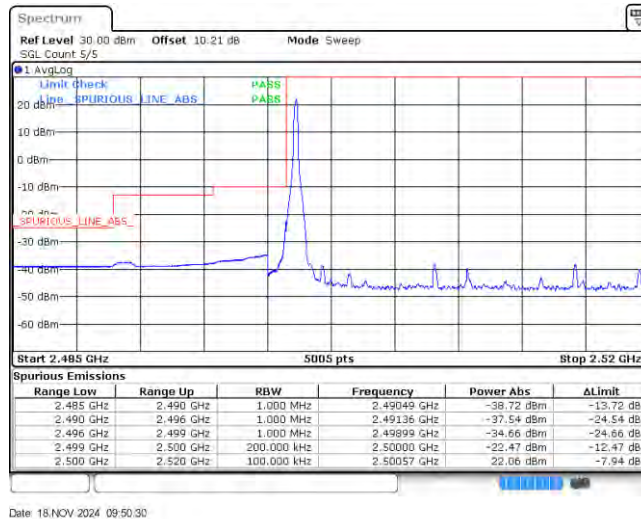
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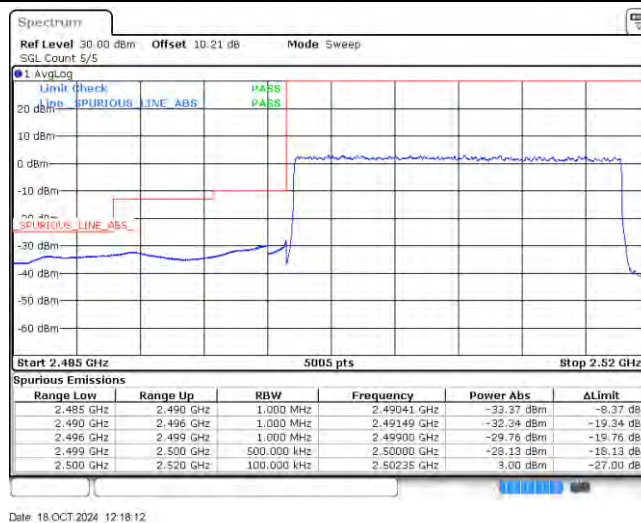
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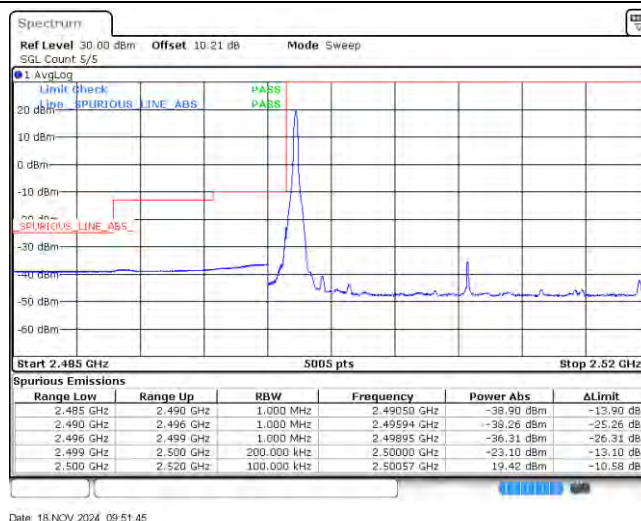
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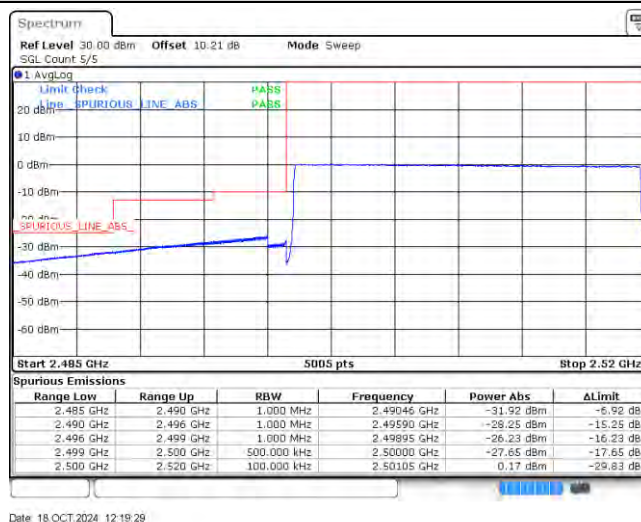
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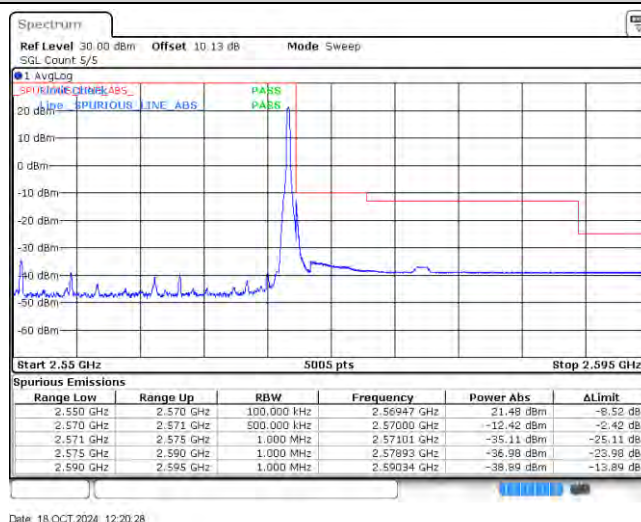
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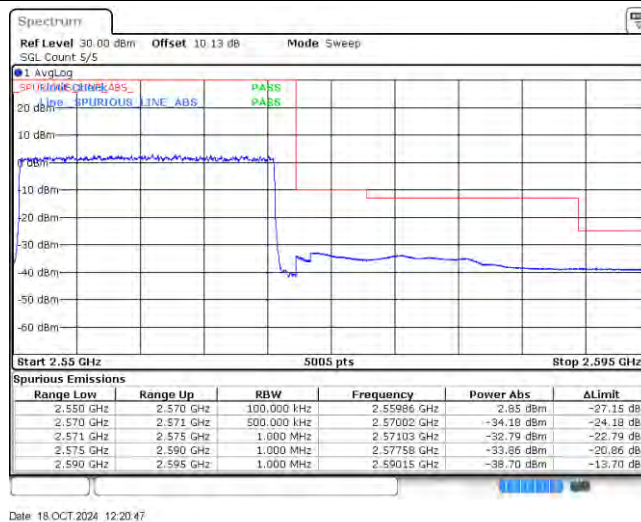
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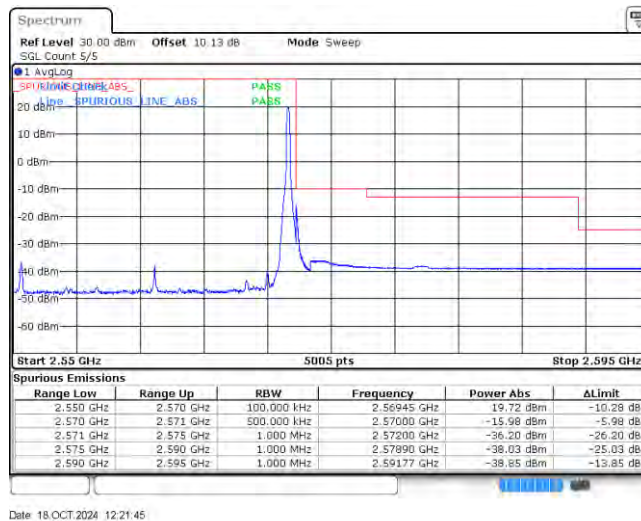
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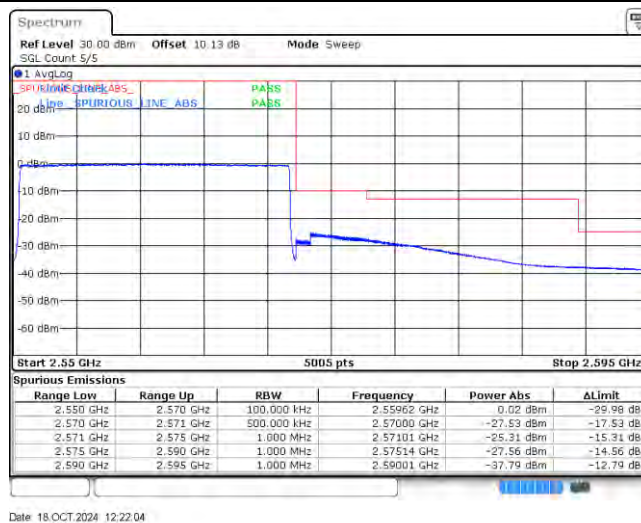
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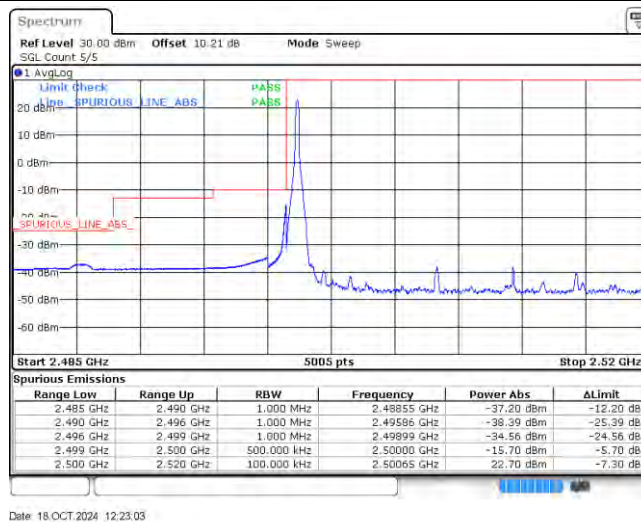
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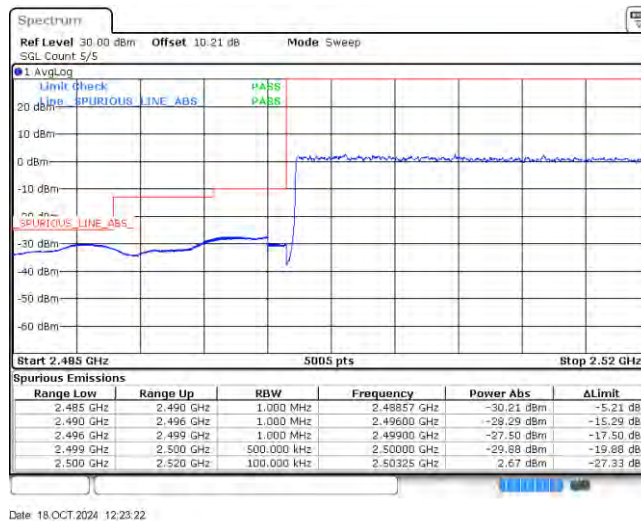
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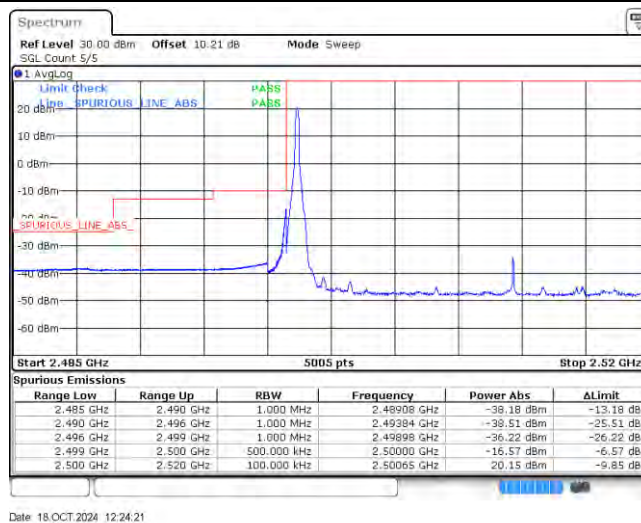
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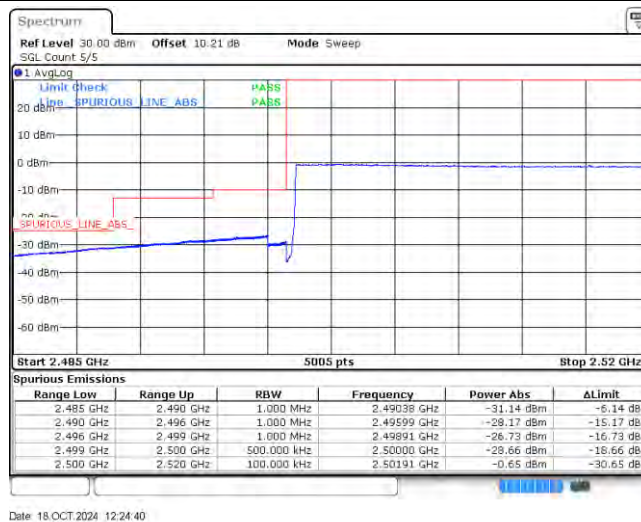
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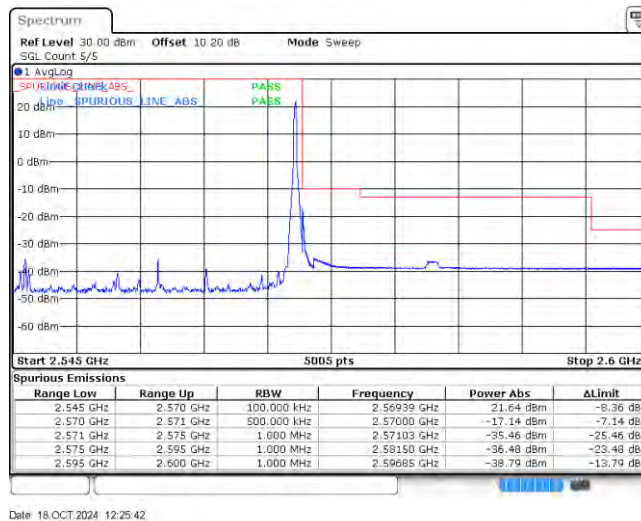
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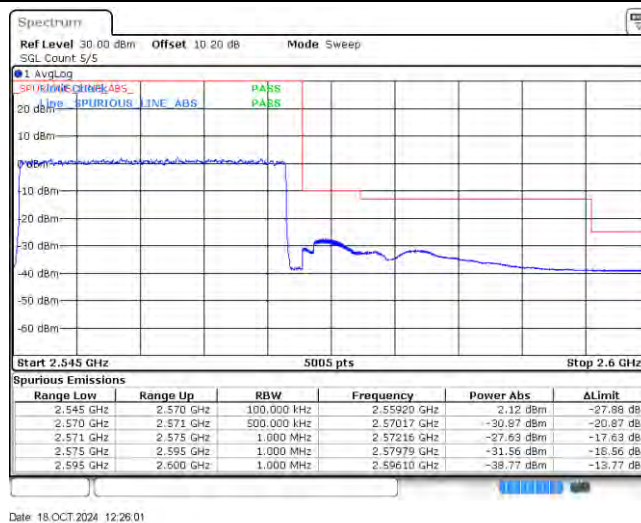
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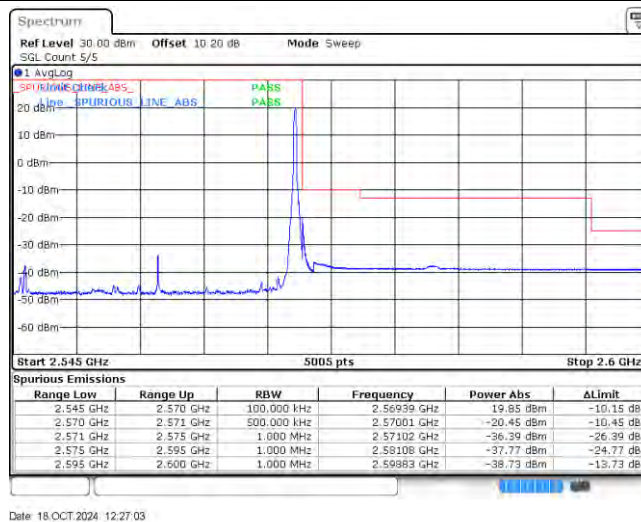
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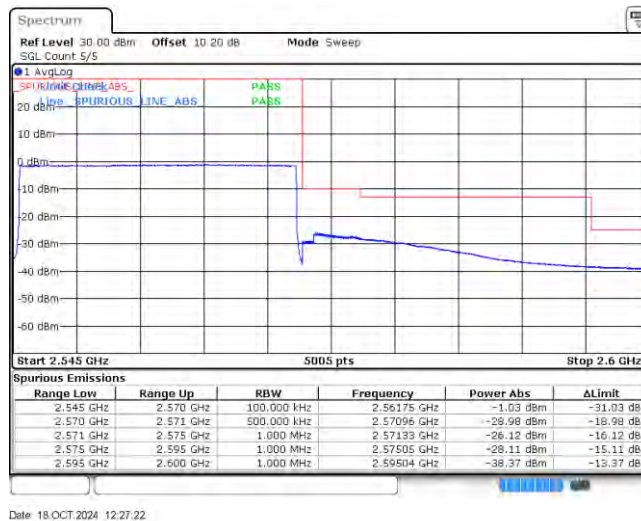
1-N7-PC3-15-25-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@132-Ant5-2570.00-7.14--17.14-PASS



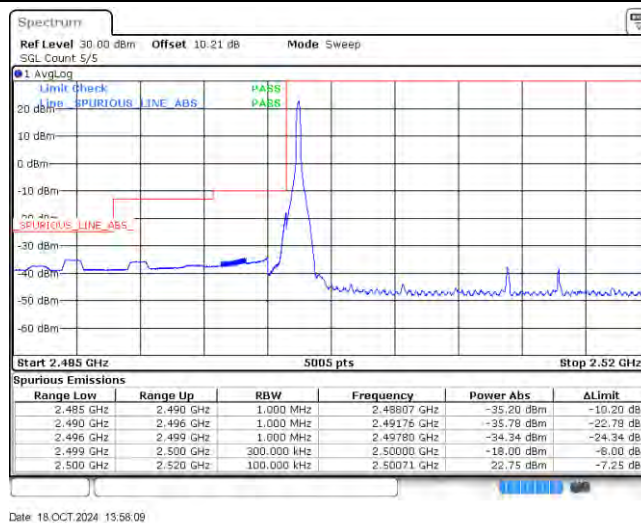
1-N7-PC3-15-25-H-3-DFT-PI2BPSK-Outer_Full-128@0-Ant5-2596.10-13.77--38.77-PASS



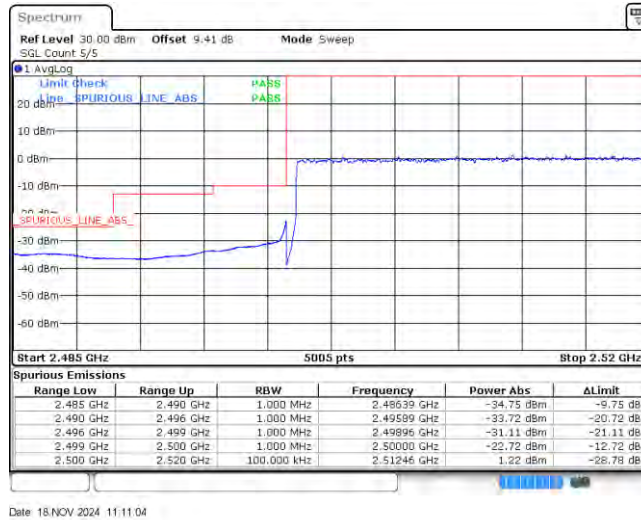
1-N7-PC3-15-25-H-5-CP-QPSK-Edge_1RB_Right-1@132-Ant5-2570.01-10.45--20.45-PASS



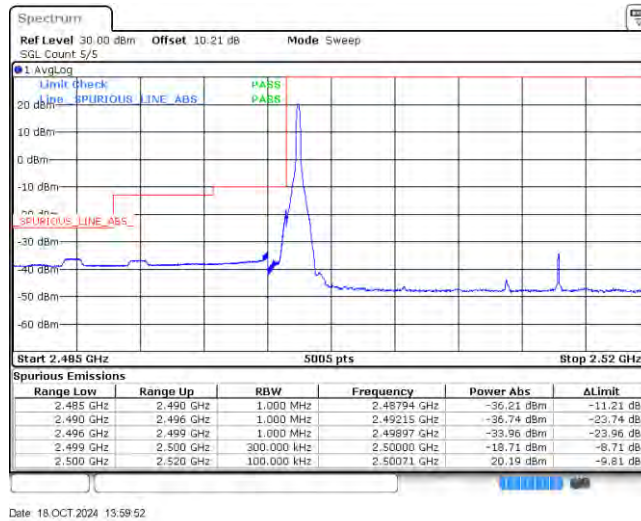
1-N7-PC3-15-25-H-6-CP-QPSK-Outer_Full-133@0-Ant5-2595.04-13.37--38.37-PASS



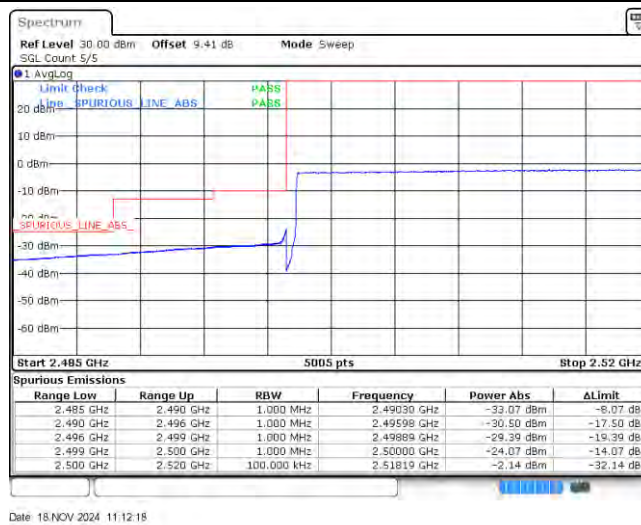
1-N7-PC3-15-30-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-2500.00-8.00--18.00-PASS



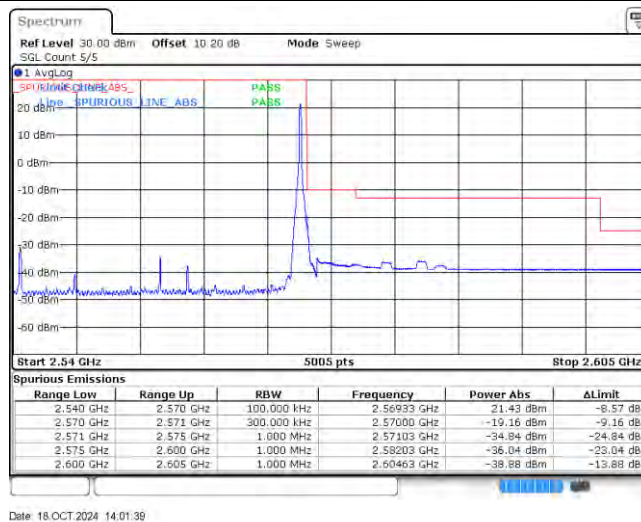
1-N7-PC3-15-30-L-3-DFT-PI2BPSK-Outter_Full-160@0-Ant5-2486.39-9.75--34.75-PASS



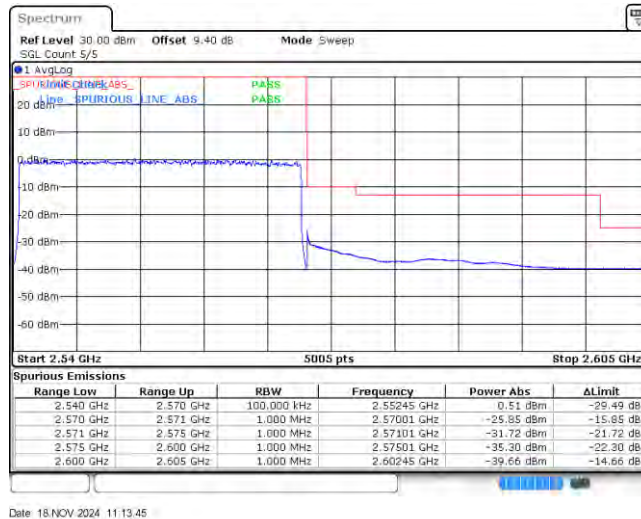
1-N7-PC3-15-30-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-2500.00-8.71--18.71-PASS



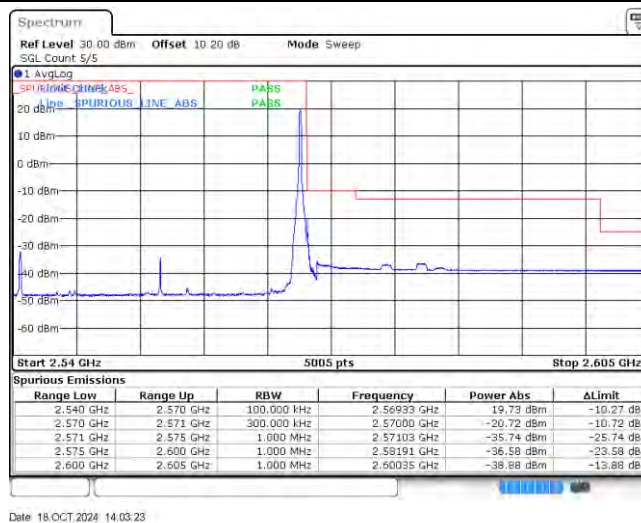
1-N7-PC3-15-30-L-6-CP-QPSK-Outter_Full-160@0-Ant5-2490.30-8.07--33.07-PASS



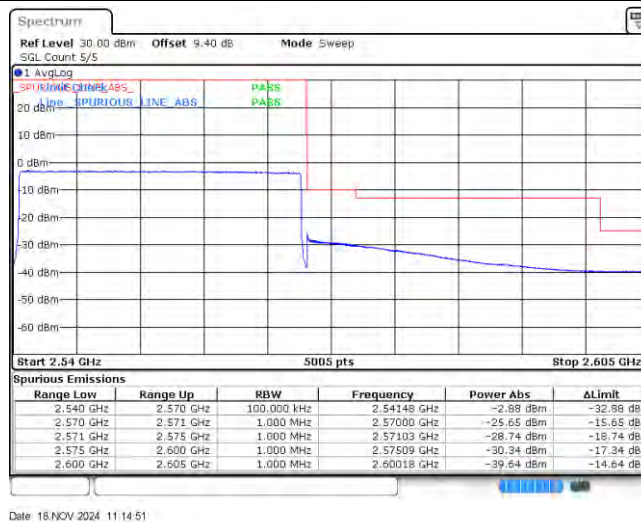
1-N7-PC3-15-30-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@159-Ant5-2570.00-9.16--19.16-PASS



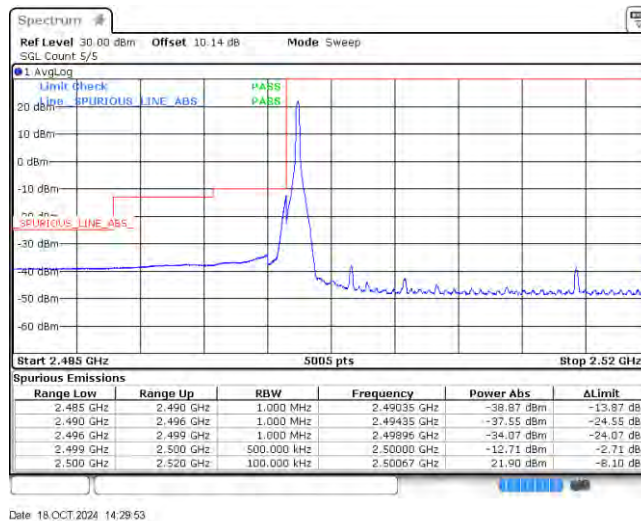
1-N7-PC3-15-30-H-3-DFT-PI2BPSK-Outer_Full-160@0-Ant5-2602.45-14.66--39.66-PASS



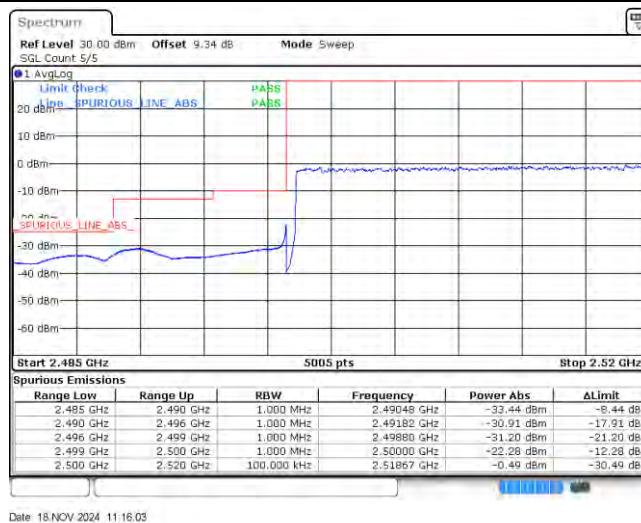
1-N7-PC3-15-30-H-5-CP-QPSK-Edge_1RB_Right-1@159-Ant5-2570.00-10.72--20.72-PASS



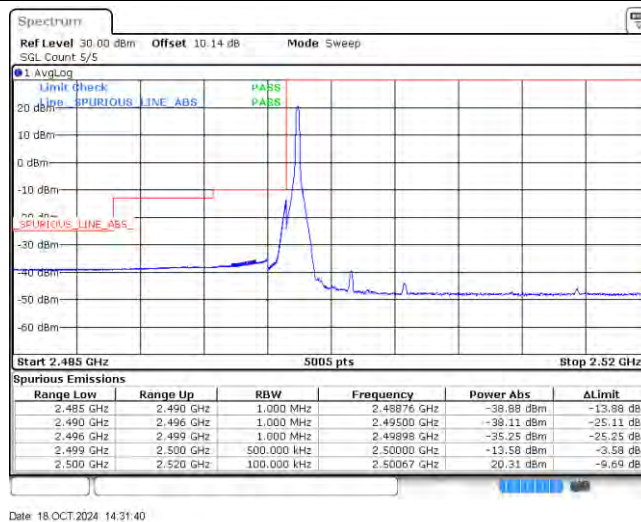
1-N7-PC3-15-30-H-6-CP-QPSK-Outer_Full-160@0-Ant5-2600.18-14.64--39.64-PASS



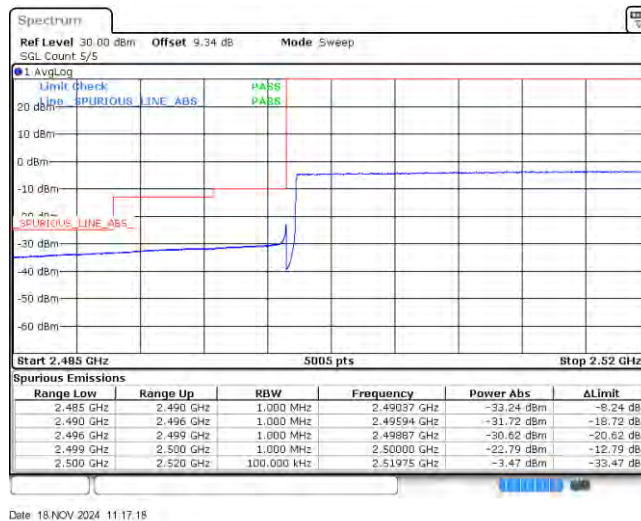
1-N7-PC3-15-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-2500.00-2.71--12.71-PASS



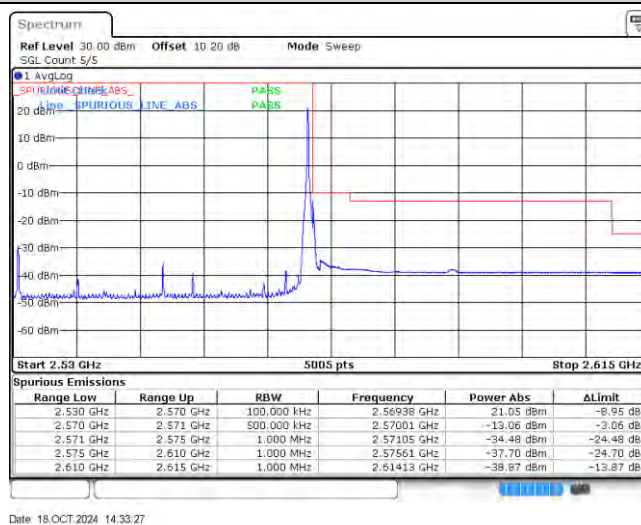
1-N7-PC3-15-40-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant5-2490.48-8.44--33.44-PASS



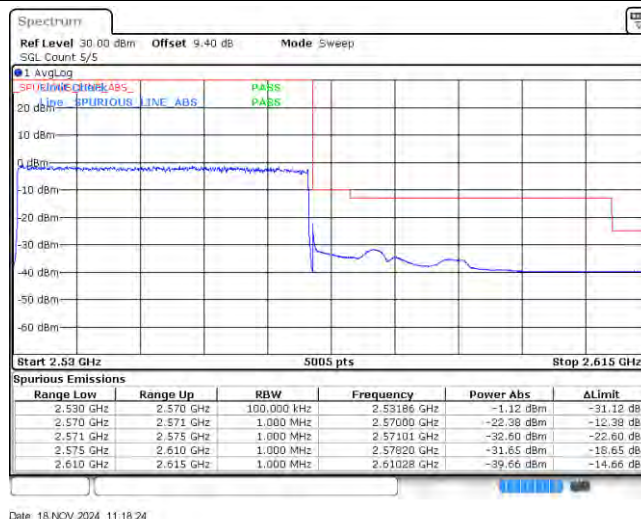
1-N7-PC3-15-40-L-4-CP-QPSK-Edge 1RB Left-1@0-Ant5-2500.00-3.58--13.58-PASS



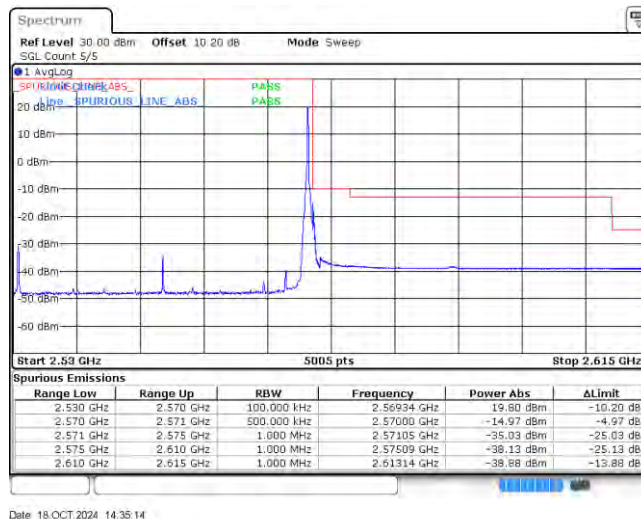
1-N7-PC3-15-40-L-6-CP-QPSK-Outer_Full-216@0-Ant5-2490.37-8.24--33.24-PASS



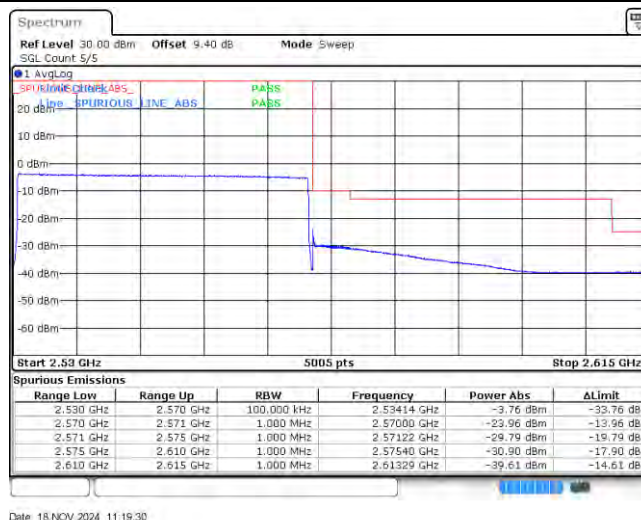
1-N7-PC3-15-40-H-2-DFT-PI2BPSK-Edge 1RB Right-1@215-Ant5-2570.01-3.06--13.06-PASS



1-N7-PC3-15-40-H-3-DFT-PI2BPSK-Outer_Full-216@0-Ant5-2570.00-12.38--22.38-PASS



1-N7-PC3-15-40-H-5-CP-QPSK-Edge_1RB_Right-1@215-Ant5-2570.00-4.97--14.97-PASS



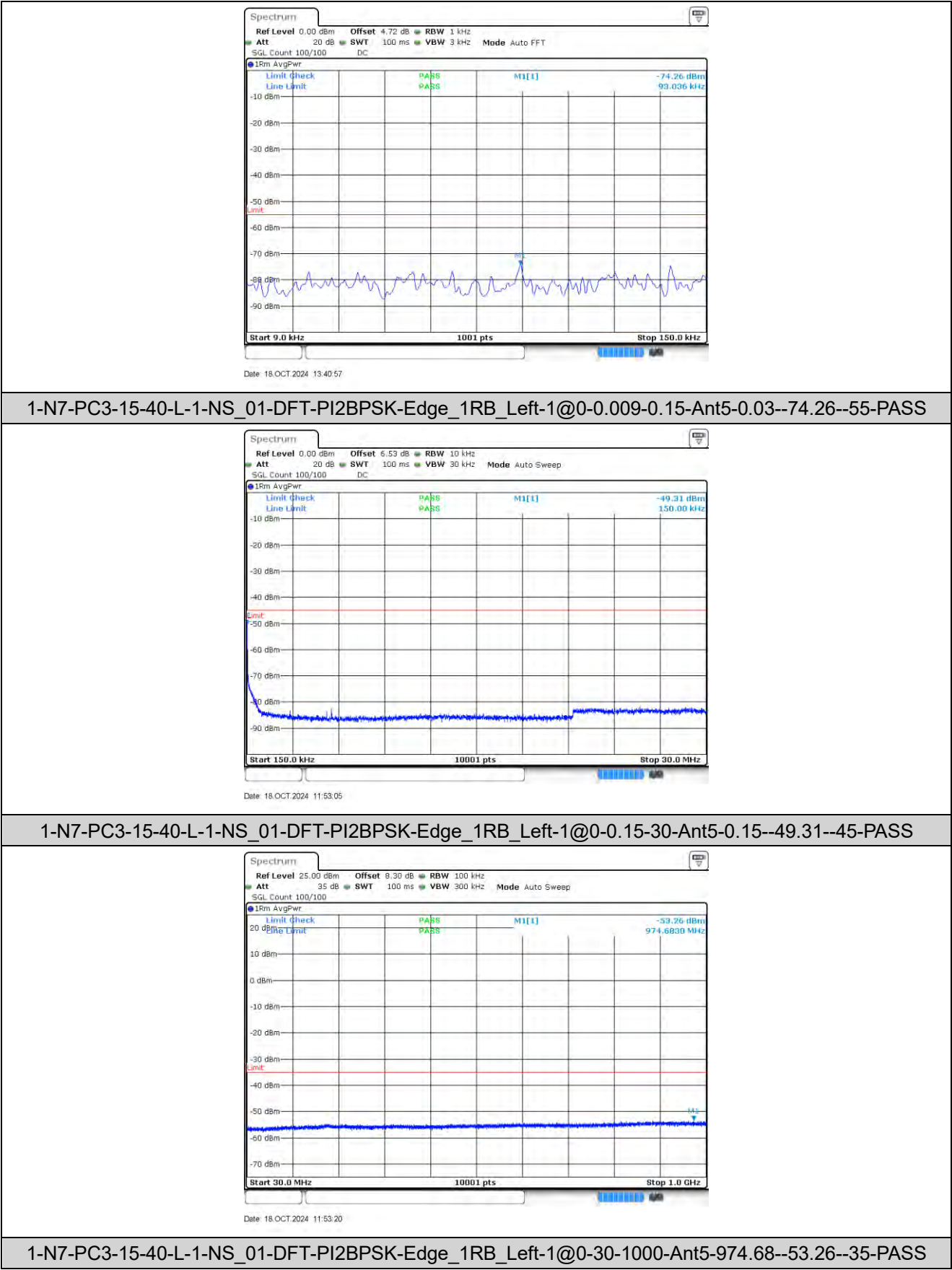
1-N7-PC3-15-40-H-6-CP-QPSK-Outer_Full-216@0-Ant5-2570.00-13.96--23.96-PASS

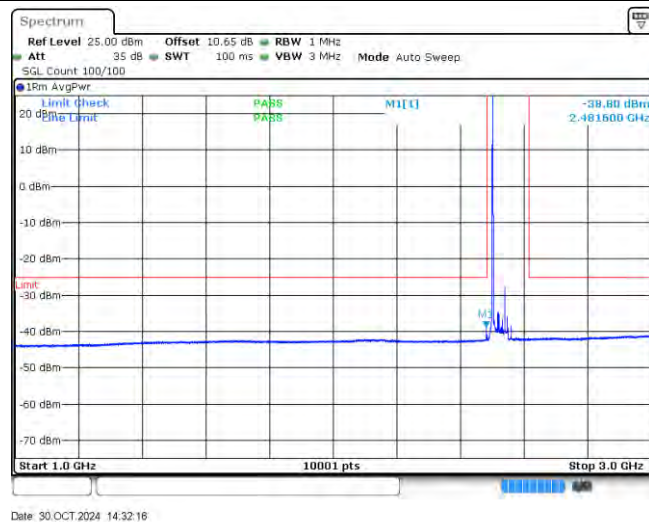
Conducted Spurious Emission for SA

Test Result

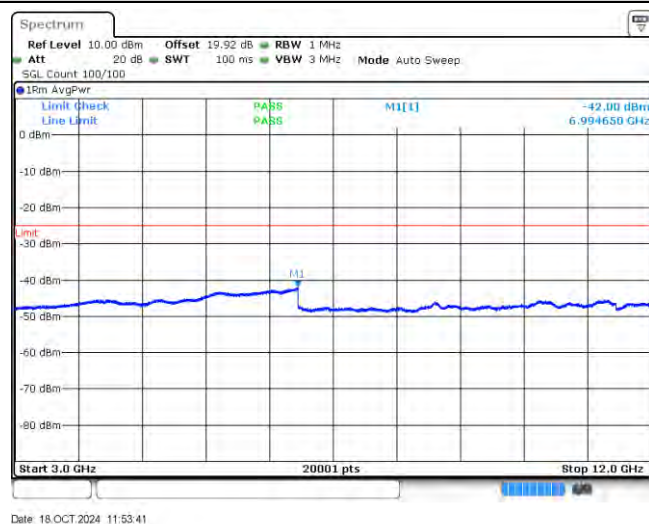
Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result (dBm)	Limit (dBm)	Verdict
N7	15	40	DFT-PI2BPSK	L	0.009	0.15	1@0	-74.26	-55	PASS
N7	15	40	DFT-PI2BPSK	L	0.15	30	1@0	-49.31	-45	PASS
N7	15	40	DFT-PI2BPSK	L	30	1000	1@0	-53.26	-35	PASS
N7	15	40	DFT-PI2BPSK	L	1000	3000	1@0	-38.80	-25	PASS
N7	15	40	DFT-PI2BPSK	L	3000	12000	1@0	-42.00	-25	PASS
N7	15	40	DFT-PI2BPSK	L	12000	26500	1@0	-40.93	-25	PASS
N7	15	40	DFT-PI2BPSK	M	0.009	0.15	1@0	-74.23	-55	PASS
N7	15	40	DFT-PI2BPSK	M	0.15	30	1@0	-51.24	-45	PASS
N7	15	40	DFT-PI2BPSK	M	30	1000	1@0	-53.62	-35	PASS
N7	15	40	DFT-PI2BPSK	M	1000	3000	1@0	-41.15	-25	PASS
N7	15	40	DFT-PI2BPSK	M	3000	12000	1@0	-42.09	-25	PASS
N7	15	40	DFT-PI2BPSK	M	12000	26500	1@0	-40.87	-25	PASS
N7	15	40	DFT-PI2BPSK	H	0.009	0.15	1@0	-74.22	-55	PASS
N7	15	40	DFT-PI2BPSK	H	0.15	30	1@0	-53.81	-45	PASS
N7	15	40	DFT-PI2BPSK	H	30	1000	1@0	-53.61	-35	PASS
N7	15	40	DFT-PI2BPSK	H	1000	3000	1@0	-41.12	-25	PASS
N7	15	40	DFT-PI2BPSK	H	3000	12000	1@0	-42.20	-25	PASS
N7	15	40	DFT-PI2BPSK	H	12000	26500	1@0	-40.70	-25	PASS

Test Graphs

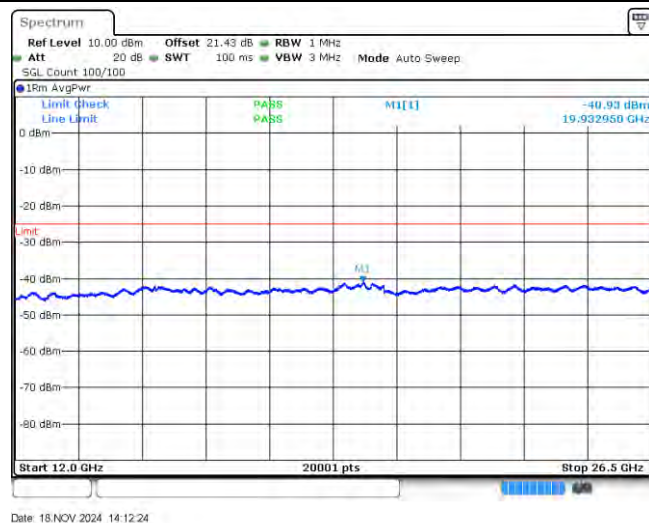




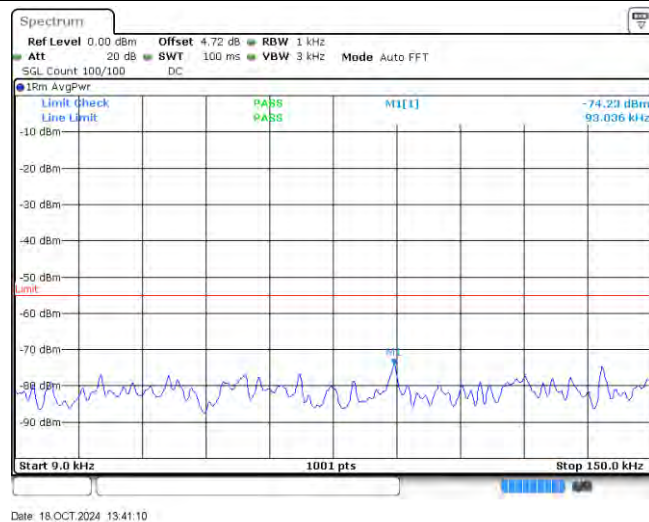
1-N7-PC3-15-40-L-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-1000-3000-Ant5-2481.60--38.80--25-PAS
S



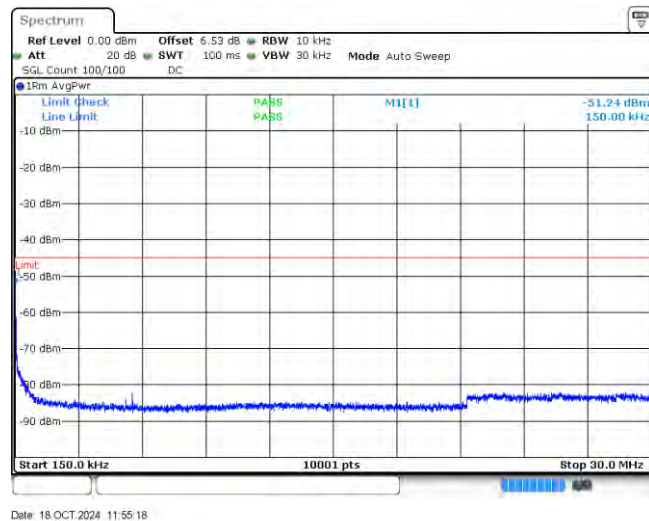
1-N7-PC3-15-40-L-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-3000-12000-Ant5-6994.65--42.00--25-PA
SS



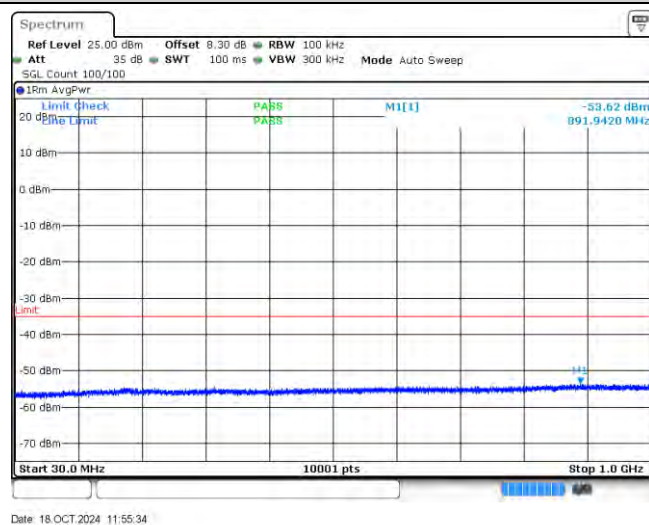
1-N7-PC3-15-40-L-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-12000-26500-Ant5-19932.95--40.93--25-P
ASS



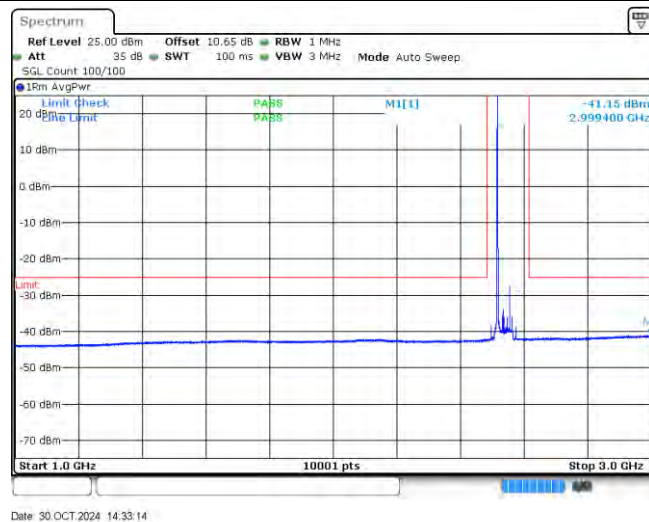
1-N7-PC3-15-40-M-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant5-0.03--74.23--55-PASS



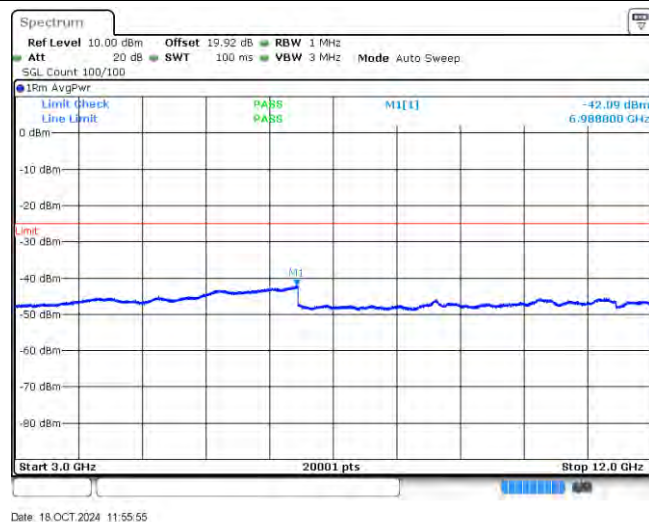
1-N7-PC3-15-40-M-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-0.15-30-Ant5-0.15--51.24--45-PASS



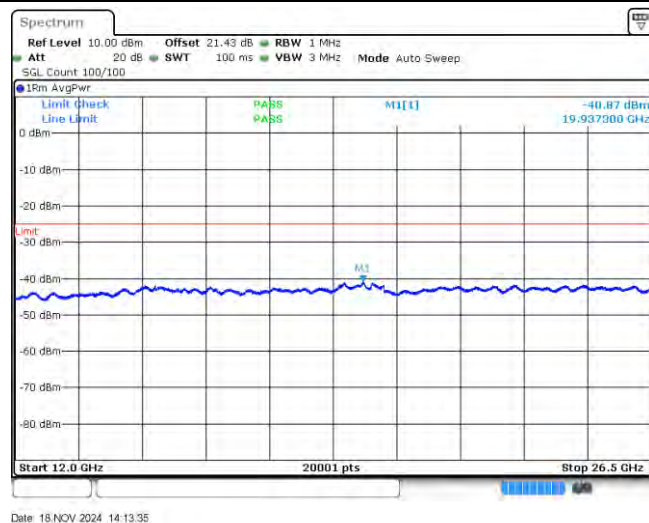
1-N7-PC3-15-40-M-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-30-1000-Ant5-891.94--53.62--35-PASS



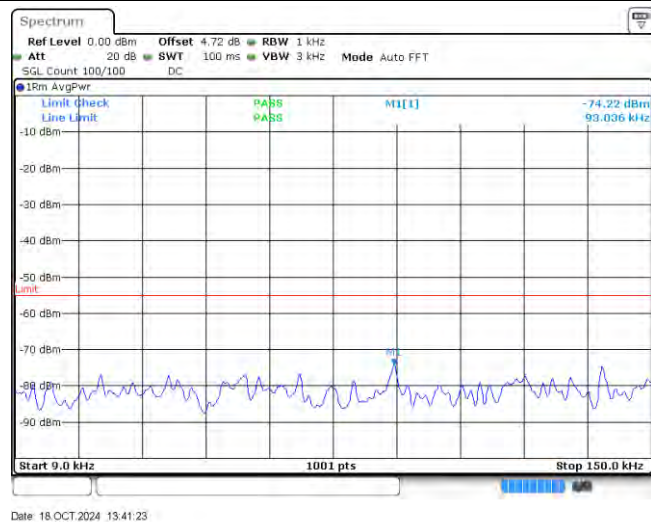
1-N7-PC3-15-40-M-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-1000-3000-Ant5-2999.40--41.15--25-PAS
S



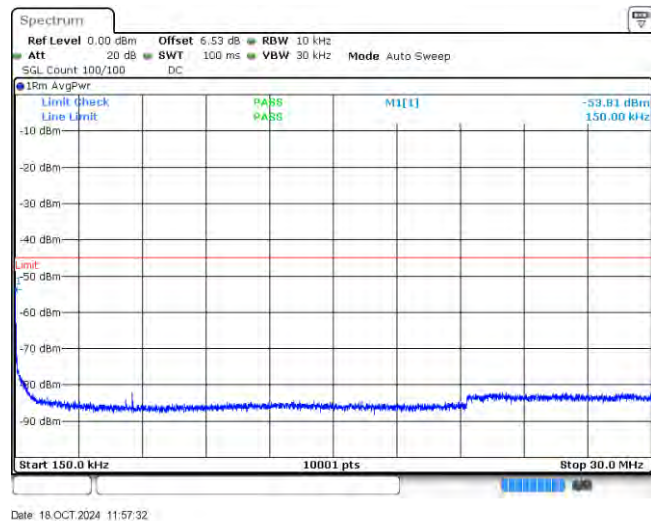
1-N7-PC3-15-40-M-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-3000-12000-Ant5-6988.80--42.09--25-PA
SS



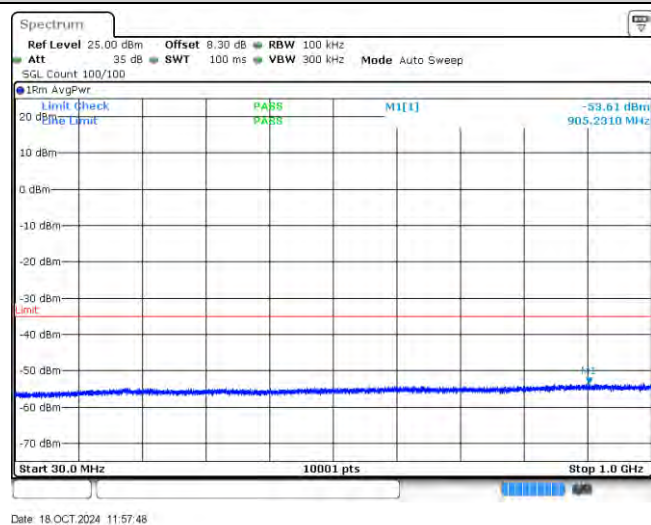
1-N7-PC3-15-40-M-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-12000-26500-Ant5-19937.30--40.87--25-PA
PASS



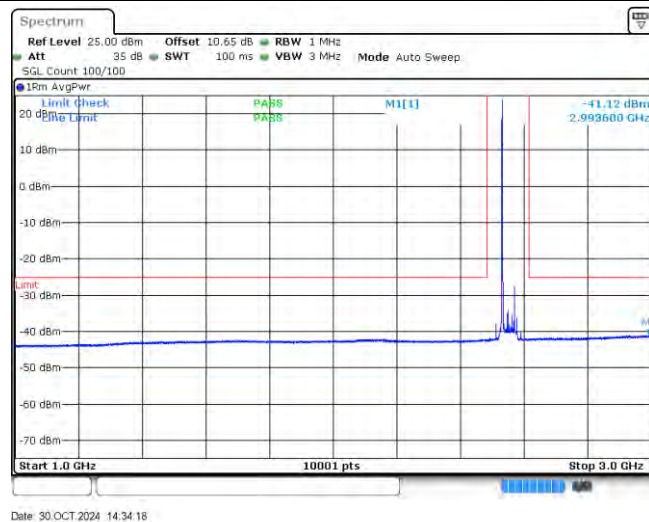
1-N7-PC3-15-40-H-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant5-0.03--74.22--55-PASS



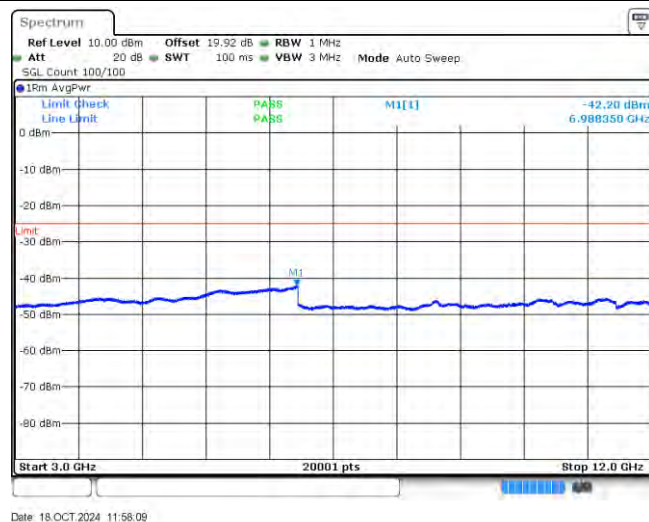
1-N7-PC3-15-40-H-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-0.15-30-Ant5-0.15--53.81--45-PASS



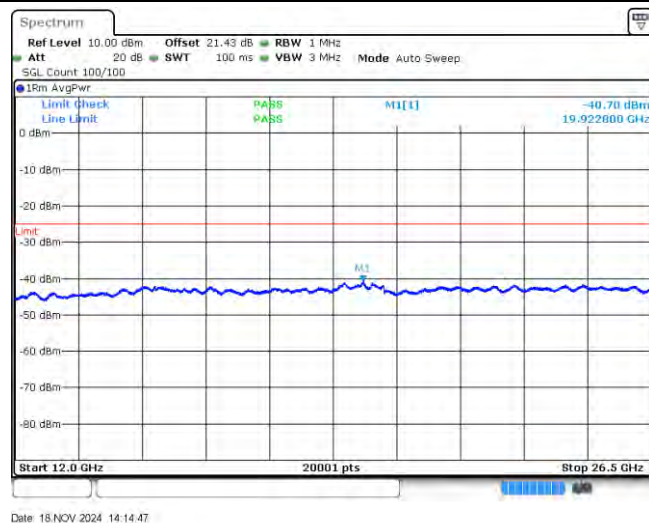
1-N7-PC3-15-40-H-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-30-1000-Ant5-905.23--53.61--35-PASS



1-N7-PC3-15-40-H-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-1000-3000-Ant5-2993.60--41.12--25-PAS
S



1-N7-PC3-15-40-H-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-3000-12000-Ant5-6988.35--42.20--25-PA
SS



1-N7-PC3-15-40-H-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-12000-26500-Ant5-19922.80--40.70--25-
PASS

Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N7	15	40	DFT-PI2BPSK	M	216@0	HV	NT	6.66	0.00263	PASS
N7	15	40	DFT-PI2BPSK	M	216@0	NV	NT	4.19	0.00165	PASS
N7	15	40	DFT-PI2BPSK	M	216@0	LV	NT	4.87	0.00192	PASS
N7	15	40	CP-QPSK	M	216@0	HV	NT	3.84	0.00151	PASS
N7	15	40	CP-QPSK	M	216@0	NV	NT	4.05	0.00160	PASS
N7	15	40	CP-QPSK	M	216@0	LV	NT	7.28	0.00287	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N7	15	40	DFT-PI2BPSK	M	216@0	NV	50	-0.905000	-0.000357	PASS
N7	15	40	DFT-PI2BPSK	M	216@0	NV	-20	2.317000	0.000914	PASS
N7	15	40	DFT-PI2BPSK	M	216@0	NV	-10	3.690000	0.001456	PASS
N7	15	40	DFT-PI2BPSK	M	216@0	NV	0	1.815000	0.000716	PASS
N7	15	40	DFT-PI2BPSK	M	216@0	NV	10	-0.134000	-0.000053	PASS
N7	15	40	DFT-PI2BPSK	M	216@0	NV	20	-0.569000	-0.000224	PASS
N7	15	40	DFT-PI2BPSK	M	216@0	NV	30	0.897000	0.000354	PASS
N7	15	40	DFT-PI2BPSK	M	216@0	NV	-30	6.076000	0.002397	PASS
N7	15	40	DFT-PI2BPSK	M	216@0	NV	40	0.189000	0.000075	PASS
N7	15	40	CP-QPSK	M	216@0	NV	50	-2.331000	-0.000920	PASS
N7	15	40	CP-QPSK	M	216@0	NV	-20	2.799000	0.001104	PASS
N7	15	40	CP-QPSK	M	216@0	NV	-10	3.638000	0.001435	PASS
N7	15	40	CP-QPSK	M	216@0	NV	0	2.311000	0.000912	PASS
N7	15	40	CP-QPSK	M	216@0	NV	10	0.956000	0.000377	PASS
N7	15	40	CP-QPSK	M	216@0	NV	20	1.493000	0.000589	PASS
N7	15	40	CP-QPSK	M	216@0	NV	30	-1.106000	-0.000436	PASS
N7	15	40	CP-QPSK	M	216@0	NV	40	-2.526000	-0.000996	PASS
N7	15	40	CP-QPSK	M	216@0	NV	-30	1.696000	0.000669	PASS

Field Strength of Spurious Radiation

NR N7 ANT11-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5002.0	-62.93	-25	-37.93	-68.5	4.57	10.14	Horizontal	Pass
7503.0	-60.41	-25	-35.41	-67.21	4.94	11.74	Horizontal	Pass
10004.0	-57.53	-25	-32.53	-65.1	5.46	13.03	Horizontal	Pass
5002.0	-62.66	-25	-37.66	-68.23	4.57	10.14	Vertical	Pass
7503.0	-61.09	-25	-36.09	-67.89	4.94	11.74	Vertical	Pass
10004.0	-56.98	-25	-31.98	-64.55	5.46	13.03	Vertical	Pass

NR N7 ANT11-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5052.0	-63.09	-25	-38.09	-68.67	4.59	10.17	Horizontal	Pass
7578.0	-60.59	-25	-35.59	-67.47	4.95	11.83	Horizontal	Pass
10104.0	-56.91	-25	-31.91	-64.48	5.48	13.05	Horizontal	Pass
5052.0	-63.15	-25	-38.15	-68.73	4.59	10.17	Vertical	Pass
7578.0	-59.98	-25	-34.98	-66.86	4.95	11.83	Vertical	Pass
10104.0	-56.79	-25	-31.79	-64.36	5.48	13.05	Vertical	Pass

NR N7 ANT11-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5102.0	-63.34	-25	-38.34	-68.94	4.6	10.2	Horizontal	Pass
7653.0	-60.64	-25	-35.64	-67.61	4.95	11.92	Horizontal	Pass
10204.0	-57.23	-25	-32.23	-64.81	5.49	13.07	Horizontal	Pass
5102.0	-63.62	-25	-38.62	-69.22	4.6	10.2	Vertical	Pass
7653.0	-60.53	-25	-35.53	-67.5	4.95	11.92	Vertical	Pass
10204.0	-57.86	-25	-32.86	-65.44	5.49	13.07	Vertical	Pass

NSA_4A_n7A-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5002.0	-62.79	-25	-37.79	-68.36	4.57	10.14	Horizontal	Pass
7503.0	-59.59	-25	-34.59	-66.39	4.94	11.74	Horizontal	Pass
10004.0	-57.5	-25	-32.5	-65.07	5.46	13.03	Horizontal	Pass
5002.0	-62.84	-25	-37.84	-68.41	4.57	10.14	Vertical	Pass
7503.0	-60.27	-25	-35.27	-67.07	4.94	11.74	Vertical	Pass
10004.0	-57.22	-25	-32.22	-64.79	5.46	13.03	Vertical	Pass

NSA_4A_n7A-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5052.0	-63.03	-25	-38.03	-68.61	4.59	10.17	Horizontal	Pass
7578.0	-60.13	-25	-35.13	-67.01	4.95	11.83	Horizontal	Pass
10104.0	-57.28	-25	-32.28	-64.85	5.48	13.05	Horizontal	Pass
5052.0	-63.2	-25	-38.2	-68.78	4.59	10.17	Vertical	Pass
7578.0	-60.13	-25	-35.13	-67.01	4.95	11.83	Vertical	Pass
10104.0	-56.94	-25	-31.94	-64.51	5.48	13.05	Vertical	Pass

NSA_4A_n7A-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5102.0	-63.36	-25	-38.36	-68.96	4.6	10.2	Horizontal	Pass
7653.0	-59.03	-25	-34.03	-66.0	4.95	11.92	Horizontal	Pass
10204.0	-57.07	-25	-32.07	-64.65	5.49	13.07	Horizontal	Pass
5102.0	-63.36	-25	-38.36	-68.96	4.6	10.2	Vertical	Pass
7653.0	-56.97	-25	-31.97	-63.94	4.95	11.92	Vertical	Pass
10204.0	-57.64	-25	-32.64	-65.22	5.49	13.07	Vertical	Pass