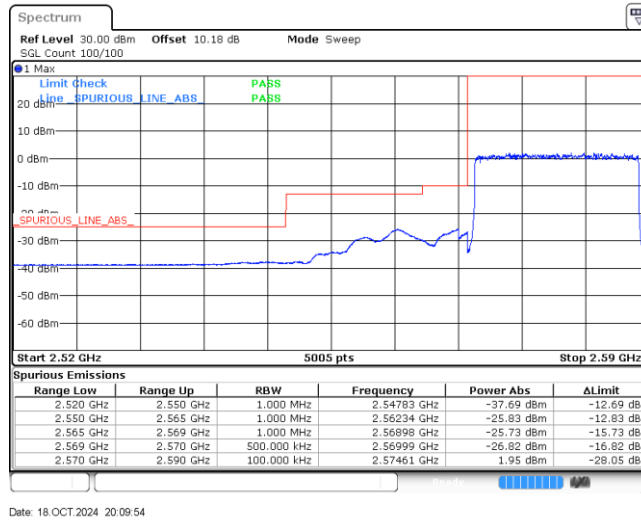
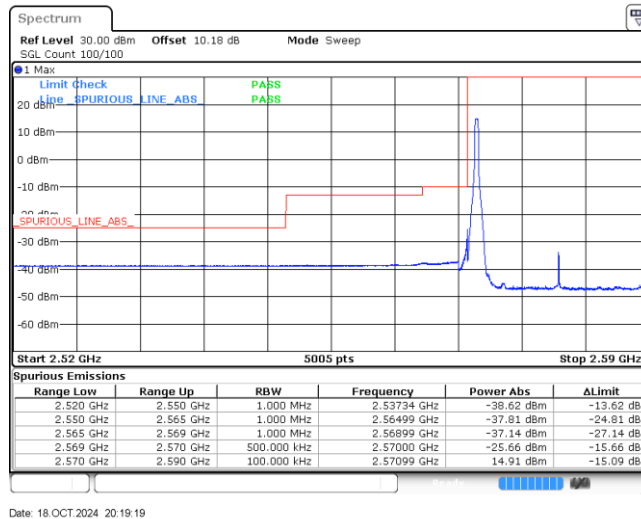
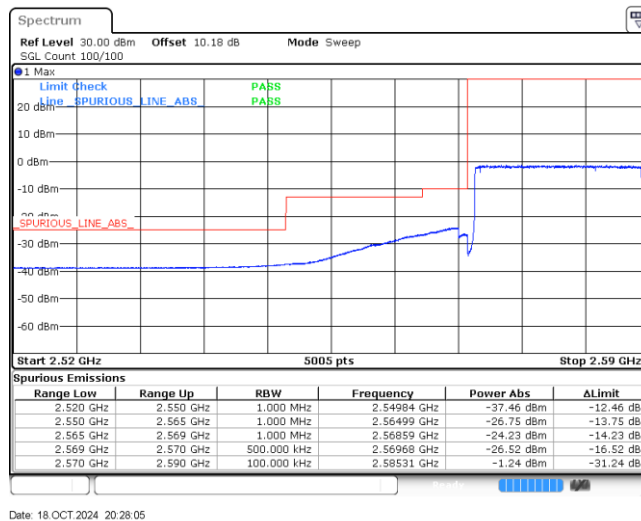




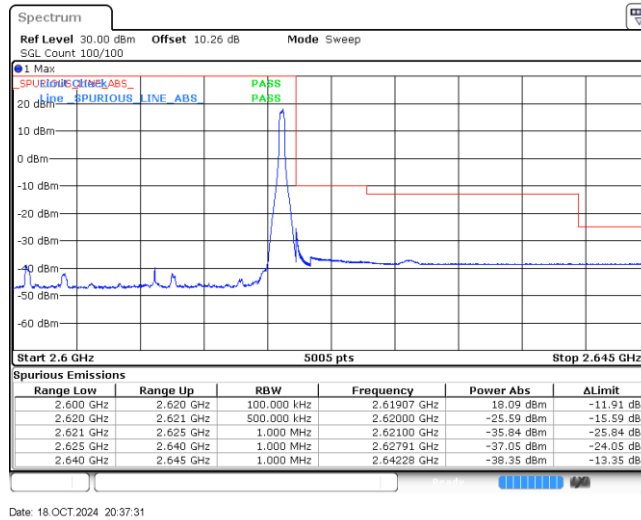
1-N38-PC3-30-20-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant5-2547.83-12.69--37.69-PASS



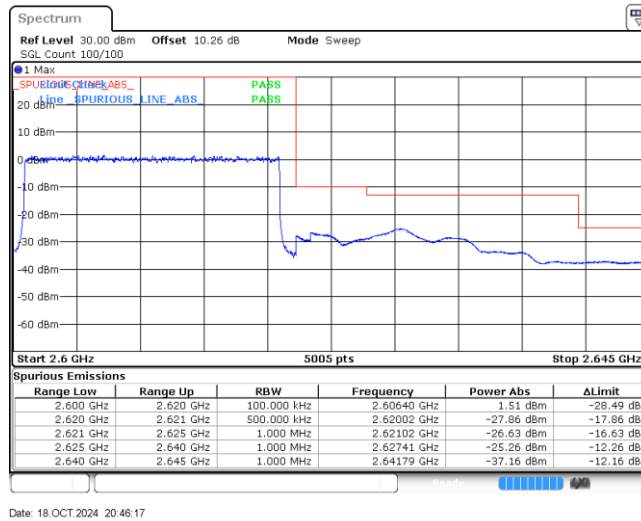
1-N38-PC3-30-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-2537.34-13.62--38.62-PASS



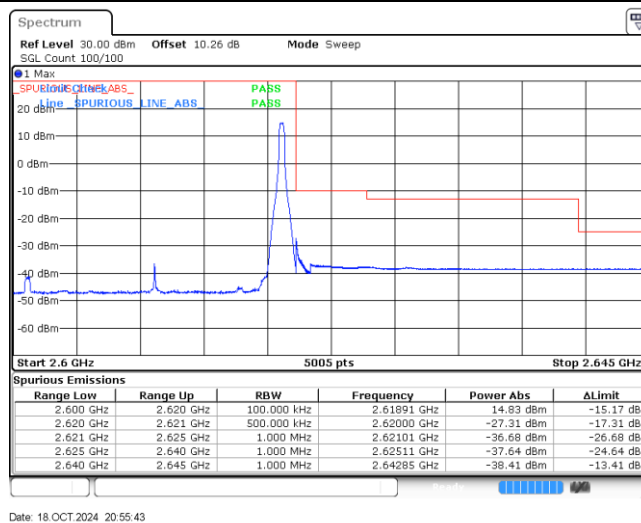
1-N38-PC3-30-20-L-6-CP-QPSK-Outer_Full-51@0-Ant5-2549.84-12.46--37.46-PASS



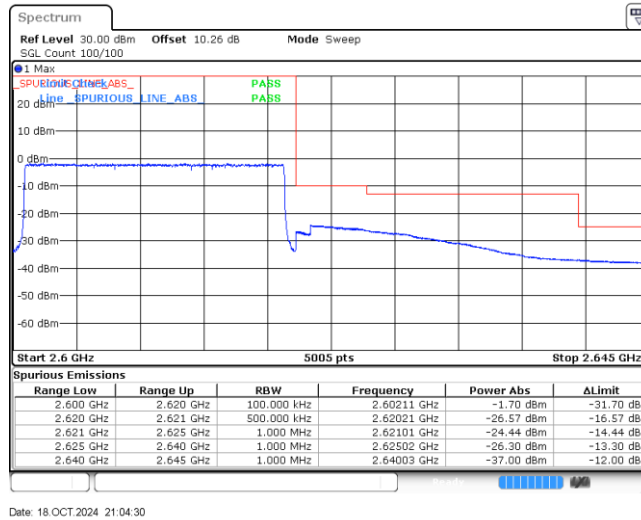
1-N38-PC3-30-20-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@50-Ant5-2642.28-13.35--38.35-PASS



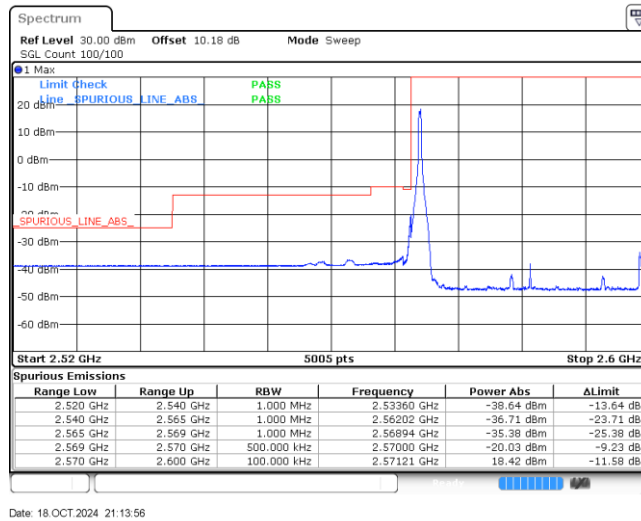
1-N38-PC3-30-20-H-3-DFT-PI2BPSK-Outer_Full-50@0-Ant5-2641.79-12.16--37.16-PASS



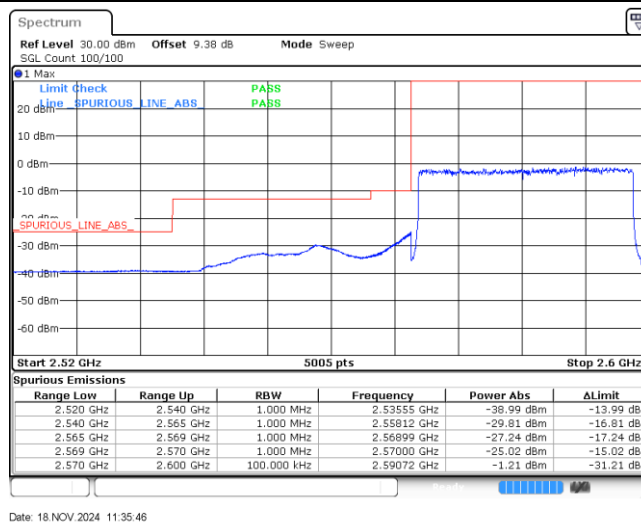
1-N38-PC3-30-20-H-5-CP-QPSK-Edge_1RB_Right-1@50-Ant5-2642.85-13.41--38.41-PASS



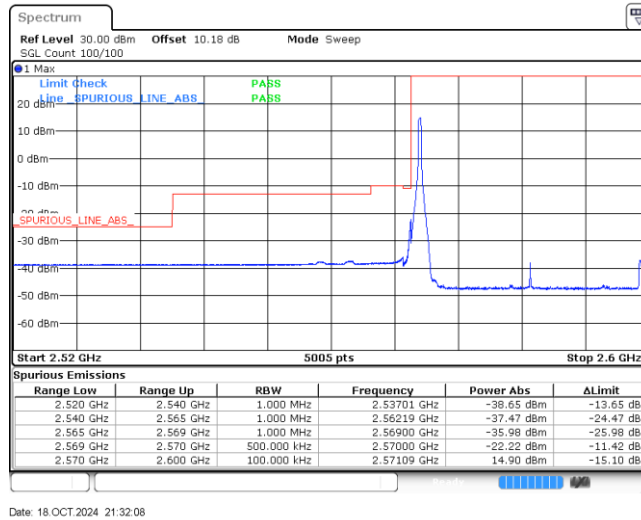
1-N38-PC3-30-20-H-6-CP-QPSK-Outer_Full-51@0-Ant5-2640.03-12.00--37.00-PASS



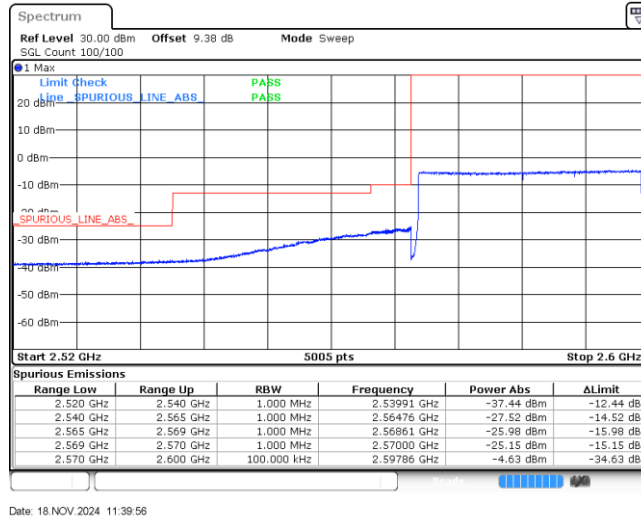
1-N38-PC3-30-30-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-2570.00-9.23--20.03-PASS



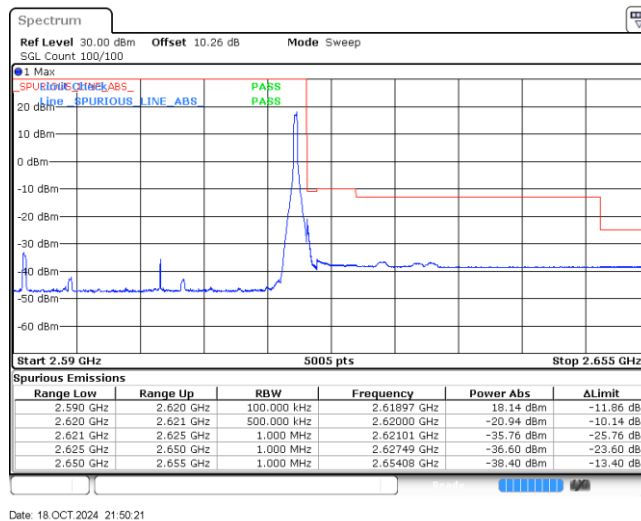
1-N38-PC3-30-30-L-3-DFT-PI2BPSK-Outer_Full-75@0-Ant5-2535.55-13.99--38.99-PASS



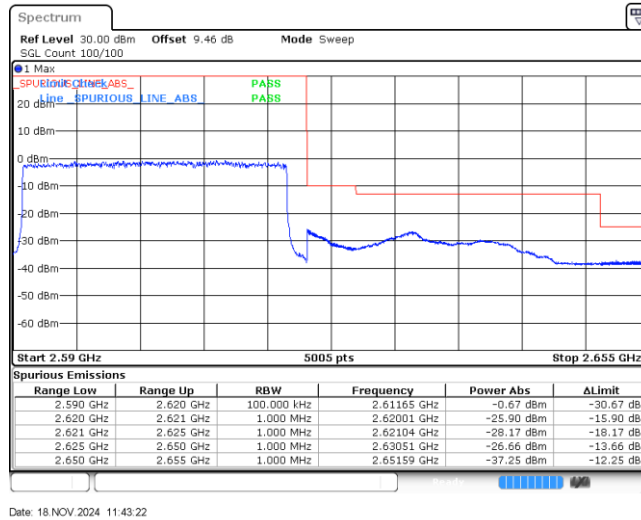
1-N38-PC3-30-30-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-2570.00-11.42--22.22-PASS



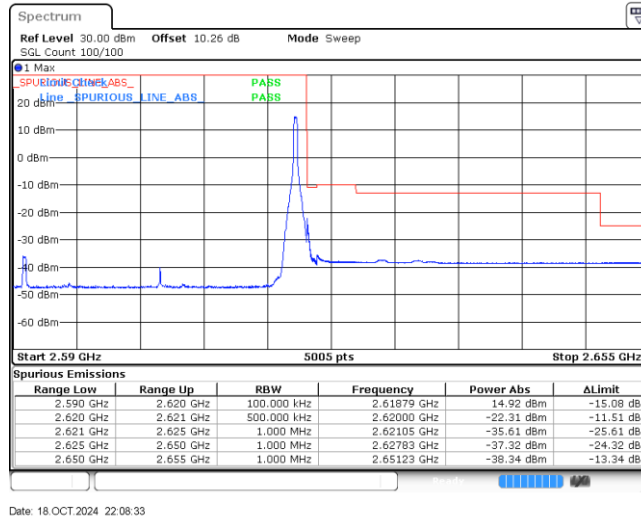
1-N38-PC3-30-30-L-6-CP-QPSK-Outer_Full-78@0-Ant5-2539.91-12.44--37.44-PASS



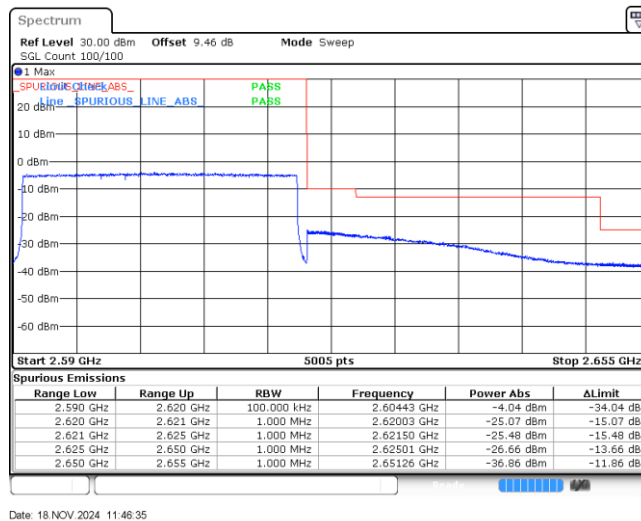
1-N38-PC3-30-30-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@77-Ant5-2620.00-10.14--20.94-PASS



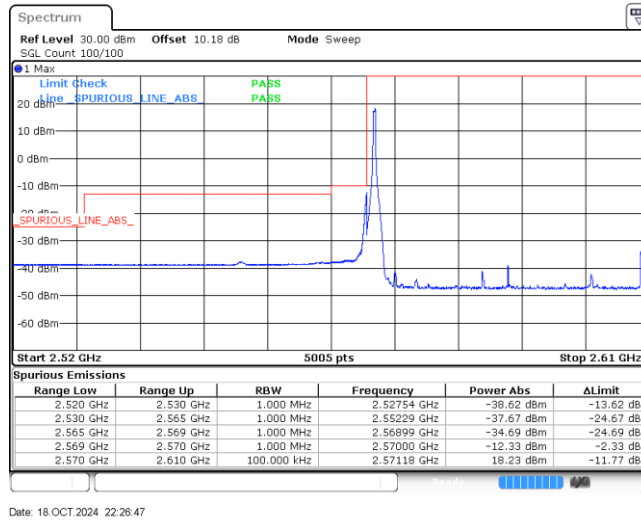
1-N38-PC3-30-30-H-3-DFT-PI2BPSK-Outer_Full-75@0-Ant5-2651.59-12.25--37.25-PASS



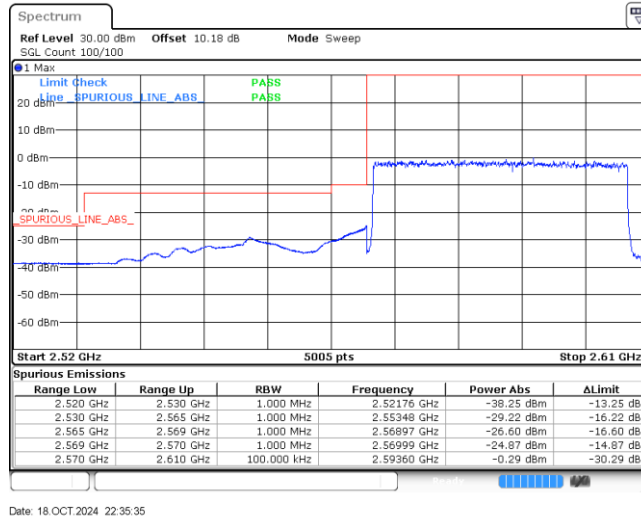
1-N38-PC3-30-30-H-5-CP-QPSK-Edge_1RB_Right-1@77-Ant5-2620.00-11.51--22.31-PASS



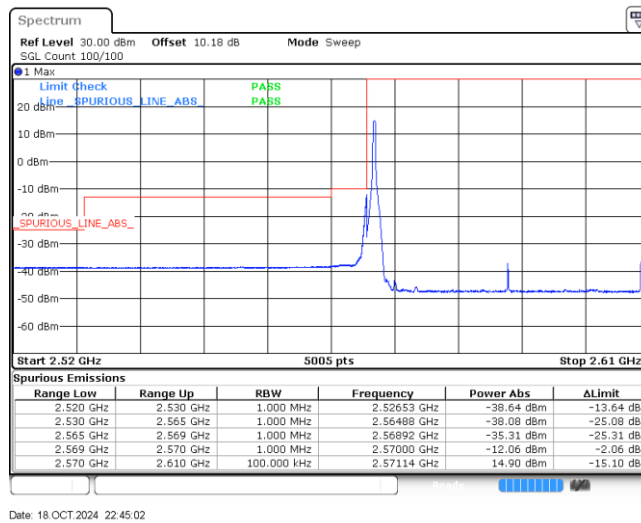
1-N38-PC3-30-30-H-6-CP-QPSK-Outer_Full-78@0-Ant5-2651.26-11.86--36.86-PASS



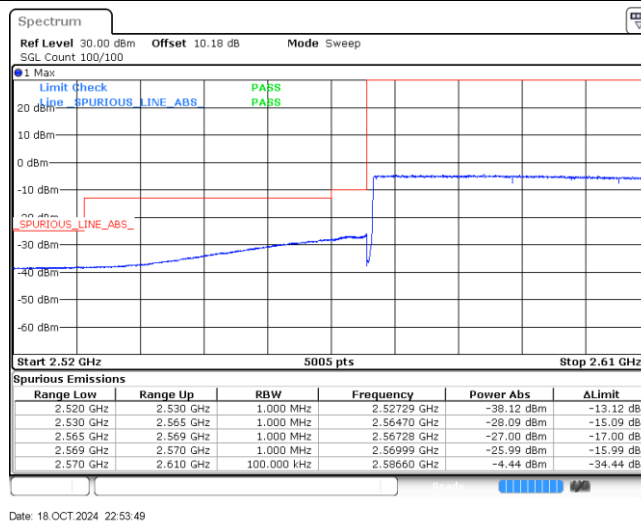
1-N38-PC3-30-40-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant5-2570.00-2.33--12.33-PASS



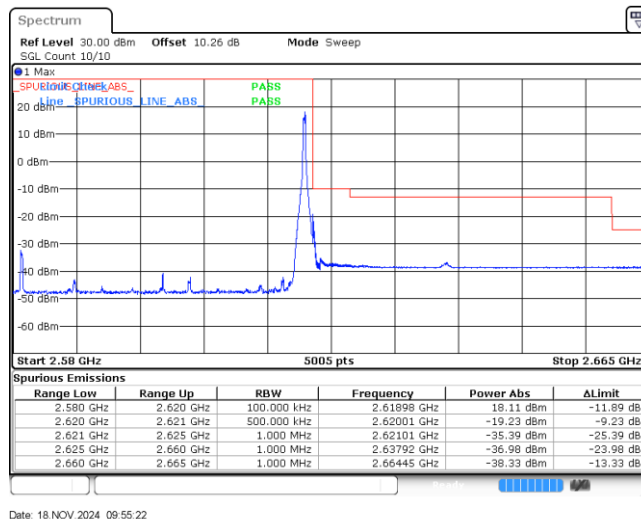
1-N38-PC3-30-40-L-3-DFT-PI2BPSK-Outer_Full-100@0-Ant5-2521.76-13.25--38.25-PASS



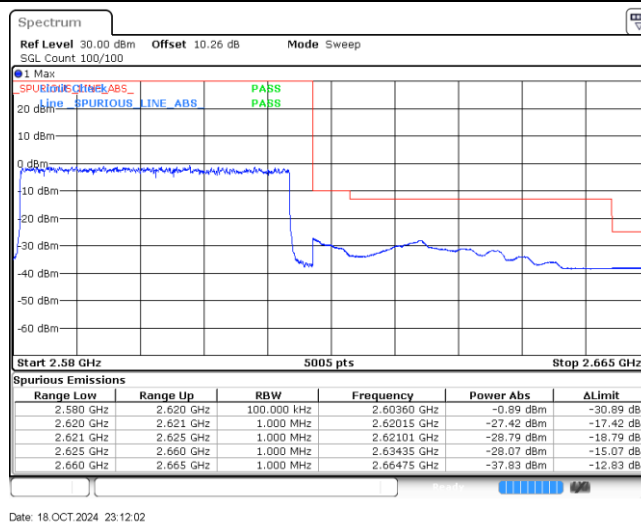
1-N38-PC3-30-40-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant5-2570.00-2.06--12.06-PASS



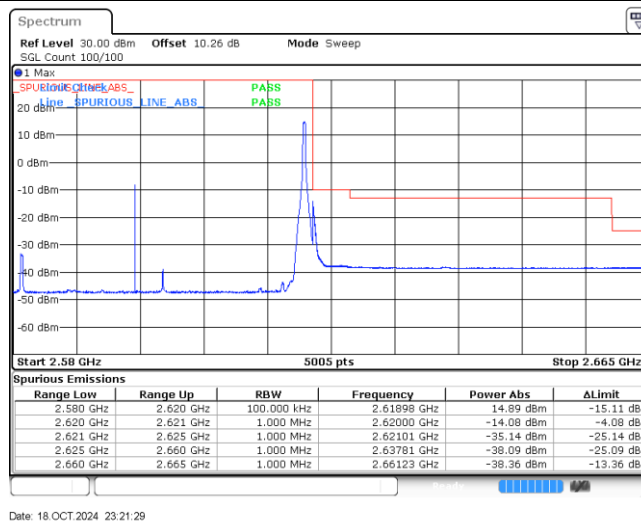
1-N38-PC3-30-40-L-6-CP-QPSK-Outer_Full-106@0-Ant5-2527.29-13.12--38.12-PASS



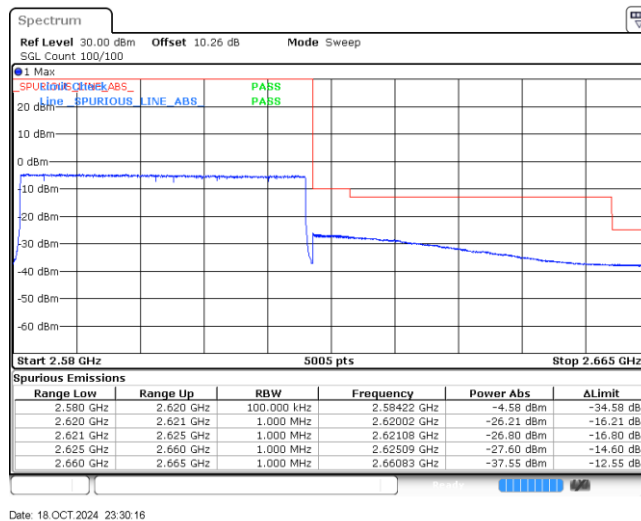
1-N38-PC3-30-40-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@105-Ant5-2620.01-9.23--19.23-PASS



1-N38-PC3-30-40-H-3-DFT-PI2BPSK-Outer_Full-100@0-Ant5-2664.75-12.83--37.83-PASS



1-N38-PC3-30-40-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant5-2620.00-4.08--14.08-PASS



1-N38-PC3-30-40-H-6-CP-QPSK-Outer_Full-106@0-Ant5-2660.83-12.55--37.55-PASS

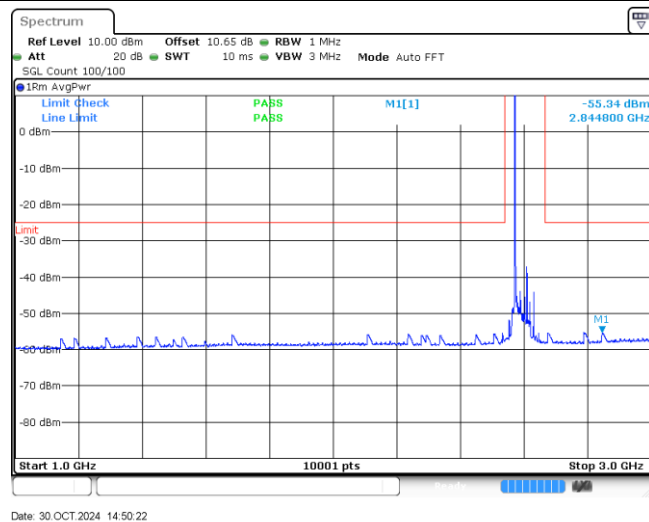
Conducted Spurious Emission for SA

Test Result

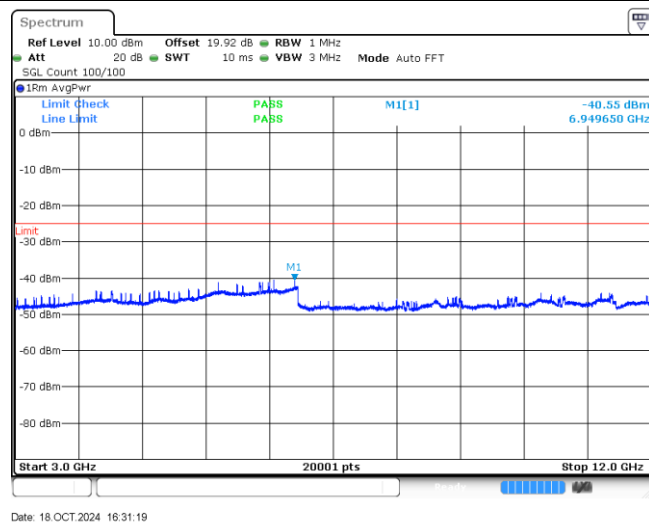
Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result (dBm)	Limit (dBm)	Verdict
N38	30	40	DFT-PI2BPSK	L	0.009	0.15	1@0	-64.16	-55	PASS
N38	30	40	DFT-PI2BPSK	L	0.15	30	1@0	-60.64	-45	PASS
N38	30	40	DFT-PI2BPSK	L	30	1000	1@0	-50.65	-35	PASS
N38	30	40	DFT-PI2BPSK	L	1000	3000	1@0	-55.34	-25	PASS
N38	30	40	DFT-PI2BPSK	L	3000	12000	1@0	-40.55	-25	PASS
N38	30	40	DFT-PI2BPSK	L	12000	26500	1@0	-39.36	-25	PASS
N38	30	40	DFT-PI2BPSK	M	0.009	0.15	1@0	-63.58	-55	PASS
N38	30	40	DFT-PI2BPSK	M	0.15	30	1@0	-59.68	-45	PASS
N38	30	40	DFT-PI2BPSK	M	30	1000	1@0	-50.61	-35	PASS
N38	30	40	DFT-PI2BPSK	M	1000	3000	1@0	-55.28	-25	PASS
N38	30	40	DFT-PI2BPSK	M	3000	12000	1@0	-40.37	-25	PASS
N38	30	40	DFT-PI2BPSK	M	12000	26500	1@0	-40.75	-25	PASS
N38	30	40	DFT-PI2BPSK	H	0.009	0.15	1@0	-63.09	-55	PASS
N38	30	40	DFT-PI2BPSK	H	0.15	30	1@0	-59.78	-45	PASS
N38	30	40	DFT-PI2BPSK	H	30	1000	1@0	-50.60	-35	PASS
N38	30	40	DFT-PI2BPSK	H	1000	3000	1@0	-55.21	-25	PASS
N38	30	40	DFT-PI2BPSK	H	3000	12000	1@0	-40.65	-25	PASS
N38	30	40	DFT-PI2BPSK	H	12000	26500	1@0	-40.50	-25	PASS

Test Graphs

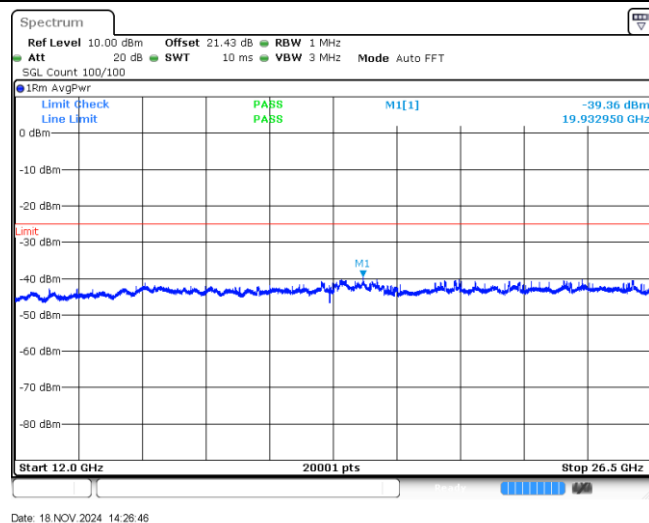




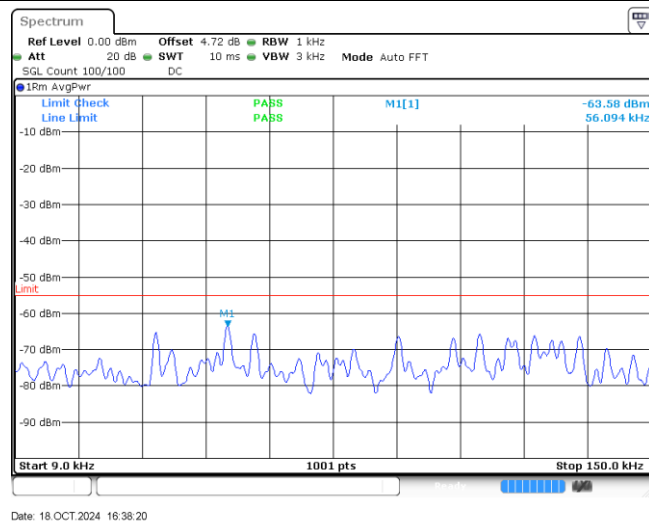
1-N38-PC3-30-40-L-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-1000-3000-Ant5-2844.80--55.34--25-PA
SS



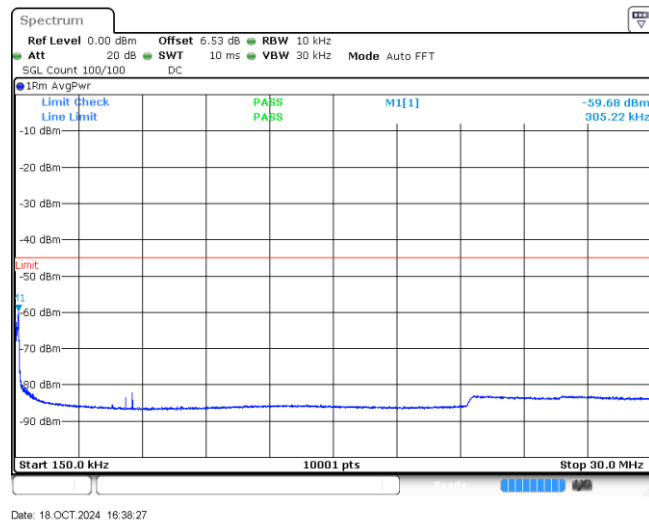
1-N38-PC3-30-40-L-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-3000-12000-Ant5-6948.75--40.55--25-PA
SS



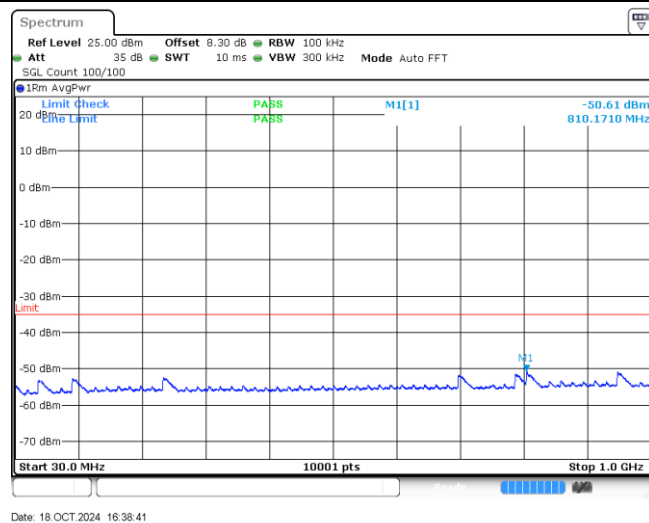
1-N38-PC3-30-40-L-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-12000-26500-Ant5-19932.95--39.36--25-
PASS



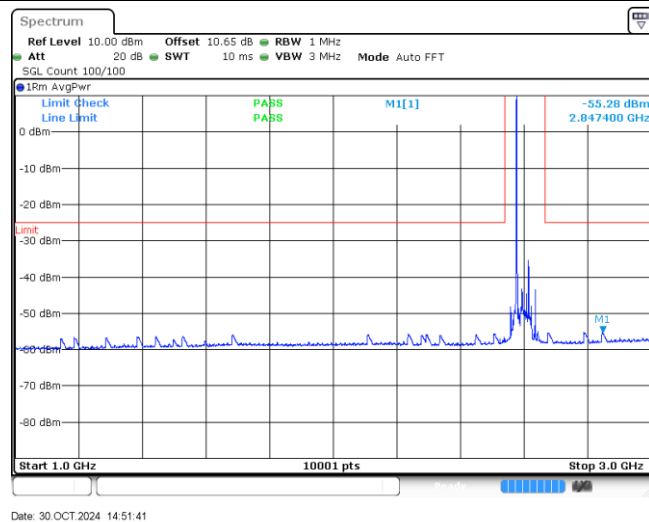
1-N38-PC3-30-40-M-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant5-0.06--63.58--55-PASS



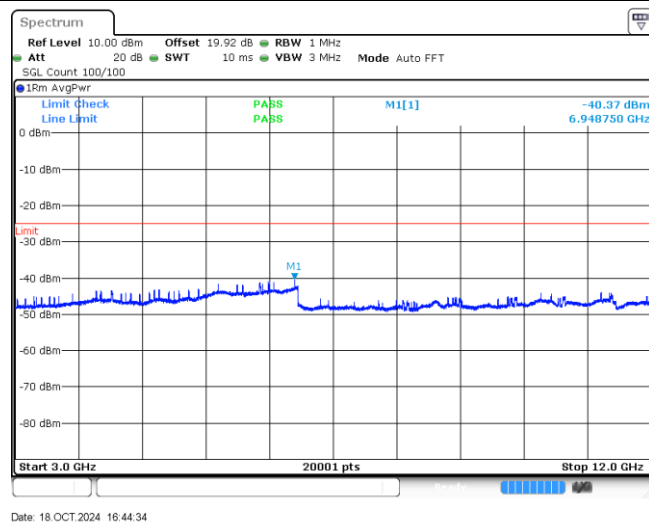
1-N38-PC3-30-40-M-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-0.15-30-Ant5-0.31--59.68--45-PASS



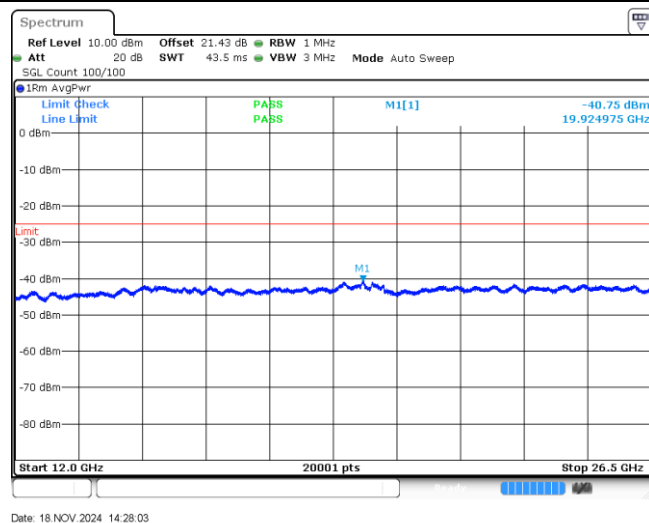
1-N38-PC3-30-40-M-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-30-1000-Ant5-810.17--50.61--35-PASS



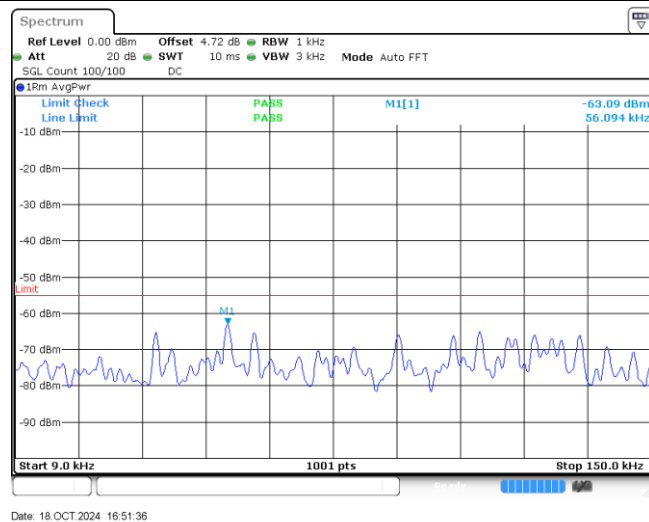
1-N38-PC3-30-40-M-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-1000-3000-Ant5-2847.40--55.28--25-PA
SS



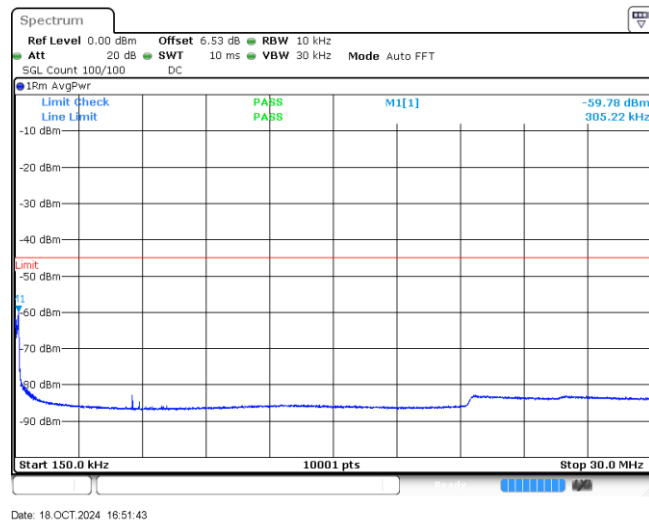
1-N38-PC3-30-40-M-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-3000-12000-Ant5-6948.75--40.37--25-P
ASS



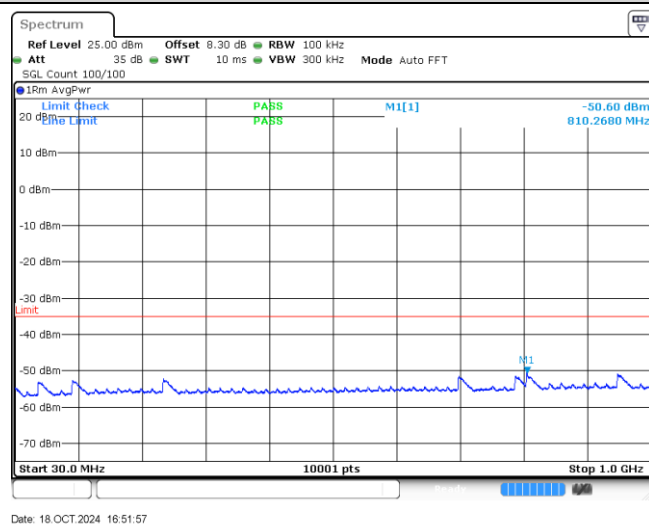
1-N38-PC3-30-40-M-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-12000-26500-Ant5-19924.98--40.75--25
-PASS



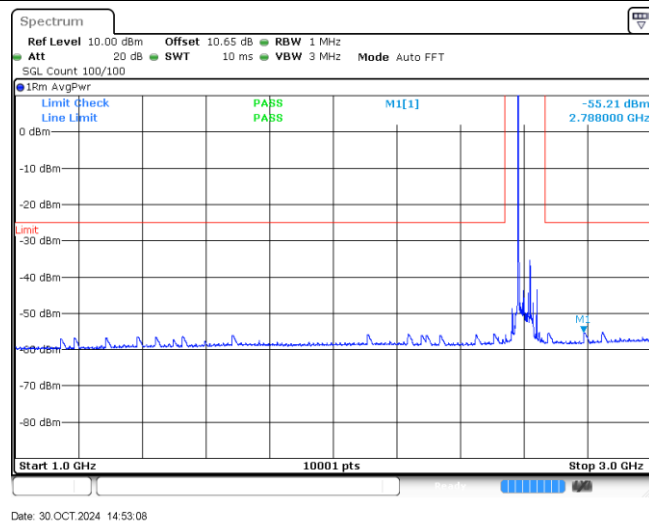
1-N38-PC3-30-40-H-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-0.009-0.15-Ant5-0.06--63.09--55-PASS



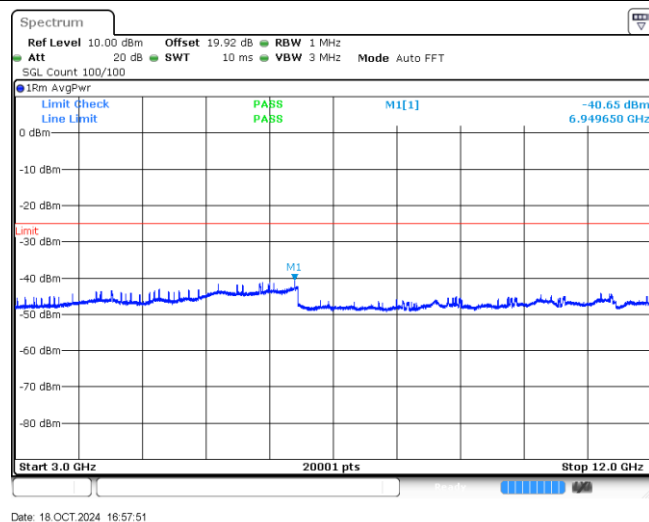
1-N38-PC3-30-40-H-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-0.15-30-Ant5-0.31--59.78--45-PASS



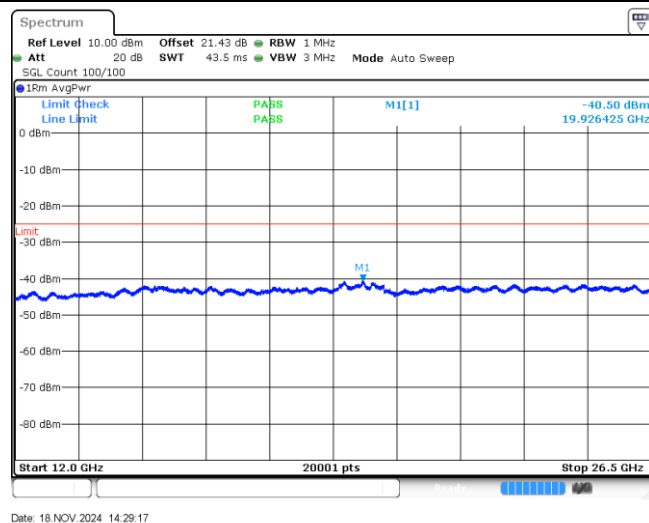
1-N38-PC3-30-40-H-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-30-1000-Ant5-810.27--50.60--35-PASS



1-N38-PC3-30-40-H-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-1000-3000-Ant5-2788.00--55.21--25-PA
SS



1-N38-PC3-30-40-H-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-3000-12000-Ant5-6949.65--40.65--25-P
ASS



1-N38-PC3-30-40-H-1-NS_01-DFT-PI2BPSK-Edge_1RB_Left-1@0-12000-26500-Ant5-19926.43--40.50--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
N38	30	40	DFT-PI2BPSK	M	100@0	HV	NT	2.85	0.00110	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	NT	-2.36	-0.00091	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	LV	NT	-0.06	-0.00002	PASS
N38	30	40	CP-QPSK	M	106@0	HV	NT	-1.36	-0.00052	PASS
N38	30	40	CP-QPSK	M	106@0	NV	NT	1.24	0.00048	PASS
N38	30	40	CP-QPSK	M	106@0	LV	NT	0.29	0.00011	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N38	30	40	DFT-PI2BPSK	M	100@0	NV	50	-4.112000	-0.001585	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	-20	-5.308000	-0.002045	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	-10	-3.806000	-0.001467	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	0	-2.924000	-0.001127	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	10	-6.981000	-0.002690	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	20	-4.967000	-0.001914	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	30	-5.489000	-0.002115	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	-30	-1.127000	-0.000434	PASS
N38	30	40	DFT-PI2BPSK	M	100@0	NV	40	-5.120000	-0.001973	PASS
N38	30	40	CP-QPSK	M	106@0	NV	50	-2.287000	-0.000881	PASS
N38	30	40	CP-QPSK	M	106@0	NV	-20	-3.499000	-0.001348	PASS
N38	30	40	CP-QPSK	M	106@0	NV	-10	-3.787000	-0.001459	PASS
N38	30	40	CP-QPSK	M	106@0	NV	0	-5.480000	-0.002112	PASS
N38	30	40	CP-QPSK	M	106@0	NV	10	-1.787000	-0.000689	PASS
N38	30	40	CP-QPSK	M	106@0	NV	20	-6.930000	-0.002671	PASS
N38	30	40	CP-QPSK	M	106@0	NV	30	-5.449000	-0.002100	PASS
N38	30	40	CP-QPSK	M	106@0	NV	40	-4.789000	-0.001845	PASS
N38	30	40	CP-QPSK	M	106@0	NV	-30	-0.725000	-0.000279	PASS

Field Strength of Spurious Radiation

NR N38 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
5144.0	-62.47	-25	-37.47	-68.08	4.62	10.23	Horizontal	Pass
7716.0	-59.58	-25	-34.58	-66.61	4.96	11.99	Horizontal	Pass
10288.0	-56.08	-25	-31.08	-63.65	5.51	13.08	Horizontal	Pass
5144.0	-62.98	-25	-37.98	-68.59	4.62	10.23	Vertical	Pass
7716.0	-59.14	-25	-34.14	-66.17	4.96	11.99	Vertical	Pass
10288.0	-56.43	-25	-31.43	-64.0	5.51	13.08	Vertical	Pass

NR N38 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
5154.0	-63.31	-25	-38.31	-68.93	4.62	10.24	Horizontal	Pass
7731.0	-59.81	-25	-34.81	-66.86	4.96	12.01	Horizontal	Pass
10344.0	-56.53	-25	-31.53	-64.1	5.52	13.09	Horizontal	Pass
5154.0	-62.64	-25	-37.64	-68.26	4.62	10.24	Vertical	Pass
7731.0	-59.95	-25	-34.95	-67.0	4.96	12.01	Vertical	Pass
10344.0	-56.77	-25	-31.77	-64.34	5.52	13.09	Vertical	Pass

NR N38 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
5164.0	-62.66	-25	-37.66	-68.28	4.62	10.24	Horizontal	Pass
7746.0	-58.8	-25	-33.8	-65.87	4.96	12.03	Horizontal	Pass
10328.0	-56.29	-25	-31.29	-63.87	5.51	13.09	Horizontal	Pass
5164.0	-62.65	-25	-37.65	-68.27	4.62	10.24	Vertical	Pass
7746.0	-58.02	-25	-33.02	-65.09	4.96	12.03	Vertical	Pass
10328.0	-56.68	-25	-31.68	-64.26	5.51	13.09	Vertical	Pass

NSA_2A_n38A-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
5144.0	-62.64	-25	-37.64	-68.25	4.62	10.23	Horizontal	Pass
7716.0	-59.68	-25	-34.68	-66.71	4.96	11.99	Horizontal	Pass
10288.0	-56.89	-25	-31.89	-64.46	5.51	13.08	Horizontal	Pass
5144.0	-63.33	-25	-38.33	-68.94	4.62	10.23	Vertical	Pass
7716.0	-59.89	-25	-34.89	-66.92	4.96	11.99	Vertical	Pass
10288.0	-56.85	-25	-31.85	-64.42	5.51	13.08	Vertical	Pass

NSA_2A_n38A-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
5154.0	-63.25	-25	-38.25	-68.87	4.62	10.24	Horizontal	Pass
7731.0	-59.77	-25	-34.77	-66.82	4.96	12.01	Horizontal	Pass
10344.0	-56.52	-25	-31.52	-64.09	5.52	13.09	Horizontal	Pass
5154.0	-63.03	-25	-38.03	-68.65	4.62	10.24	Vertical	Pass
7731.0	-59.47	-25	-34.47	-66.52	4.96	12.01	Vertical	Pass
10344.0	-56.18	-25	-31.18	-63.75	5.52	13.09	Vertical	Pass

NSA_2A_n38A-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
5164.0	-63.57	-25	-38.57	-69.19	4.62	10.24	Horizontal	Pass
7746.0	-59.63	-25	-34.63	-66.7	4.96	12.03	Horizontal	Pass
10328.0	-56.9	-25	-31.9	-64.48	5.51	13.09	Horizontal	Pass
5164.0	-63.17	-25	-38.17	-68.79	4.62	10.24	Vertical	Pass
7746.0	-59.77	-25	-34.77	-66.84	4.96	12.03	Vertical	Pass
10328.0	-57.13	-25	-32.13	-64.71	5.51	13.09	Vertical	Pass