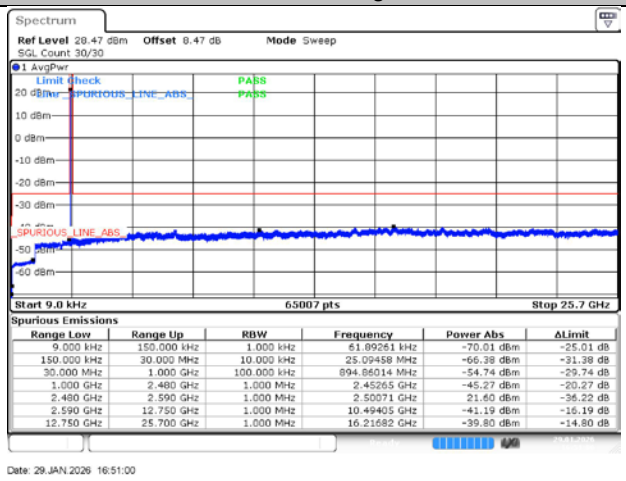
n7A / 15KHz / 15MHz

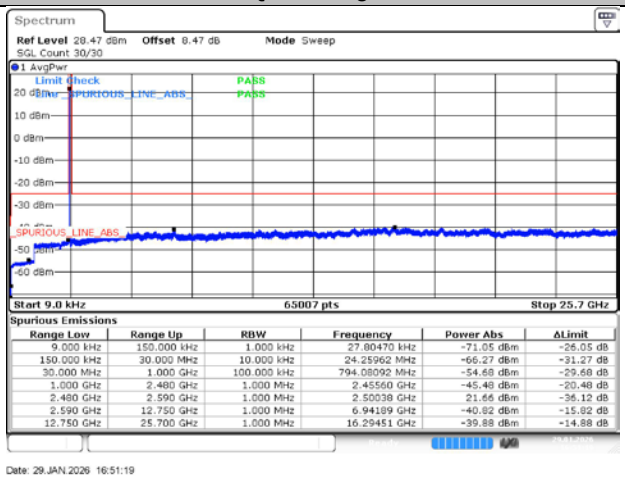
LCH / DFT-Pi2BPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	61.89261 kHz	-70.01 dBm	-25.01 dB
150.000 kHz	30.000 MHz	10.000 kHz	25.09458 MHz	-66.38 dBm	-31.38 dB
30.000 MHz	1.000 GHz	100.000 kHz	894.86014 MHz	-54.74 dBm	-29.74 dB
1.000 GHz	2.480 GHz	1.000 MHz	2.45265 GHz	-45.27 dBm	-20.27 dB
2.480 GHz	2.590 GHz	1.000 MHz	2.50071 GHz	21.60 dBm	-36.22 dB
2.590 GHz	12.750 GHz	1.000 MHz	10.49405 GHz	-41.19 dBm	-16.19 dB
12.750 GHz	25.700 GHz	1.000 MHz	16.21682 GHz	-39.80 dBm	-14.80 dB

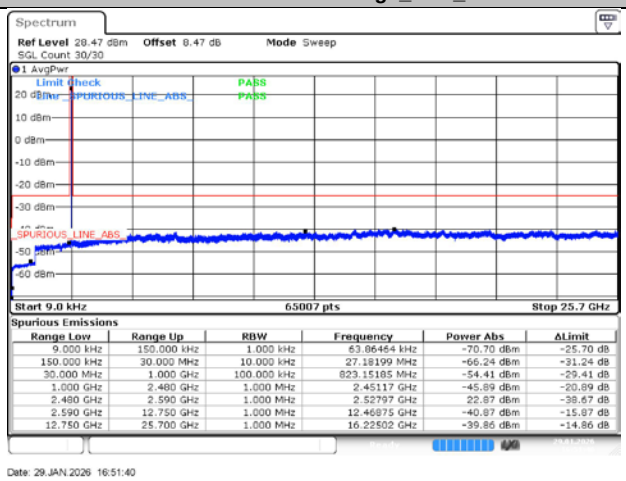
LCH / DFT-QPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	27.80470 kHz	-71.05 dBm	-26.05 dB
150.000 kHz	30.000 MHz	10.000 kHz	24.25962 MHz	-66.27 dBm	-31.27 dB
30.000 MHz	1.000 GHz	100.000 kHz	794.08092 MHz	-54.68 dBm	-29.68 dB
1.000 GHz	2.480 GHz	1.000 MHz	2.45560 GHz	-45.48 dBm	-20.48 dB
2.480 GHz	2.590 GHz	1.000 MHz	2.50038 GHz	21.66 dBm	-36.12 dB
2.590 GHz	12.750 GHz	1.000 MHz	6.94189 GHz	-40.82 dBm	-15.82 dB
12.750 GHz	25.700 GHz	1.000 MHz	16.29451 GHz	-39.88 dBm	-14.88 dB

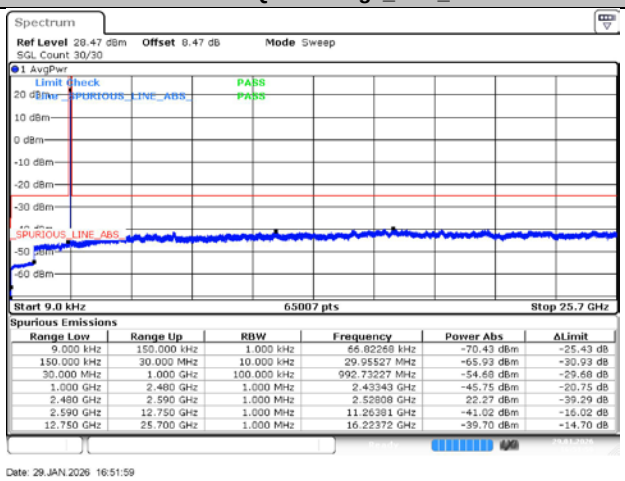
MCH / DFT-Pi2BPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	63.86464 kHz	-70.70 dBm	-25.70 dB
150.000 kHz	30.000 MHz	10.000 kHz	27.18199 MHz	-66.24 dBm	-31.24 dB
30.000 MHz	1.000 GHz	100.000 kHz	823.15185 MHz	-54.41 dBm	-29.41 dB
1.000 GHz	2.480 GHz	1.000 MHz	2.45117 GHz	-45.89 dBm	-20.89 dB
2.480 GHz	2.590 GHz	1.000 MHz	2.52797 GHz	22.87 dBm	-38.67 dB
2.590 GHz	12.750 GHz	1.000 MHz	12.46875 GHz	-40.87 dBm	-15.87 dB
12.750 GHz	25.700 GHz	1.000 MHz	16.22502 GHz	-39.86 dBm	-14.86 dB

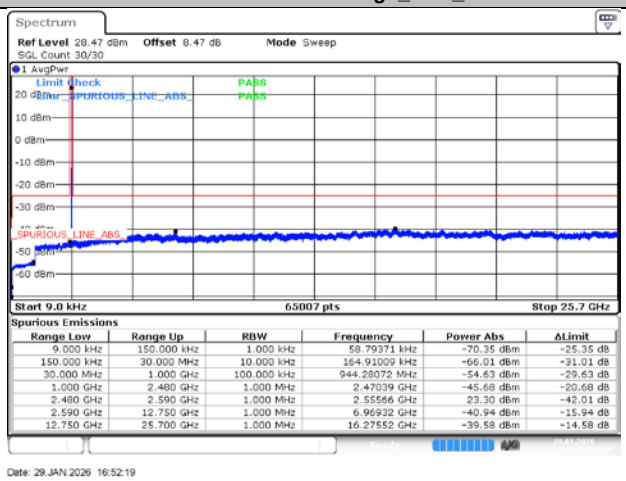
MCH / DFT-QPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	66.82268 kHz	-70.43 dBm	-25.43 dB
150.000 kHz	30.000 MHz	10.000 kHz	29.95527 MHz	-65.93 dBm	-30.93 dB
30.000 MHz	1.000 GHz	100.000 kHz	992.73227 MHz	-54.68 dBm	-29.68 dB
1.000 GHz	2.480 GHz	1.000 MHz	2.43343 GHz	-45.75 dBm	-20.75 dB
2.480 GHz	2.590 GHz	1.000 MHz	2.52808 GHz	22.27 dBm	-39.29 dB
2.590 GHz	12.750 GHz	1.000 MHz	11.26381 GHz	-41.02 dBm	-16.02 dB
12.750 GHz	25.700 GHz	1.000 MHz	16.22372 GHz	-39.70 dBm	-14.70 dB

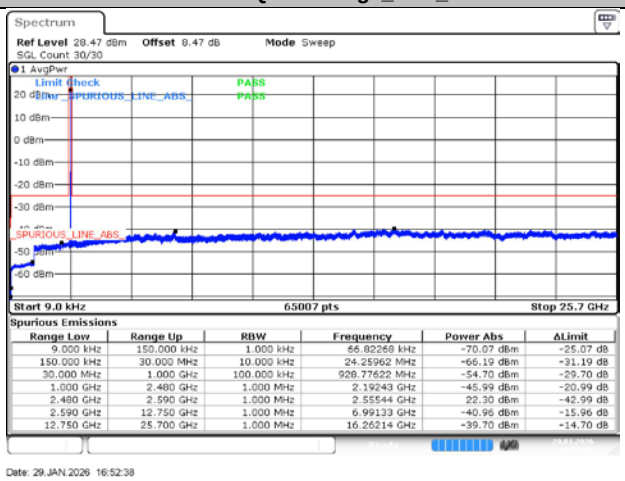
HCH / DFT-Pi2BPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	58.79371 kHz	-70.35 dBm	-25.35 dB
150.000 kHz	30.000 MHz	10.000 kHz	164.91009 kHz	-66.01 dBm	-31.01 dB
30.000 MHz	1.000 GHz	100.000 kHz	944.28072 MHz	-54.63 dBm	-29.63 dB
1.000 GHz	2.480 GHz	1.000 MHz	2.47039 GHz	-45.68 dBm	-20.68 dB
2.480 GHz	2.590 GHz	1.000 MHz	2.55566 GHz	23.30 dBm	-42.01 dB
2.590 GHz	12.750 GHz	1.000 MHz	6.96932 GHz	-40.94 dBm	-15.94 dB
12.750 GHz	25.700 GHz	1.000 MHz	16.27552 GHz	-39.58 dBm	-14.58 dB

HCH / DFT-QPSK / Edge_1RB_Left

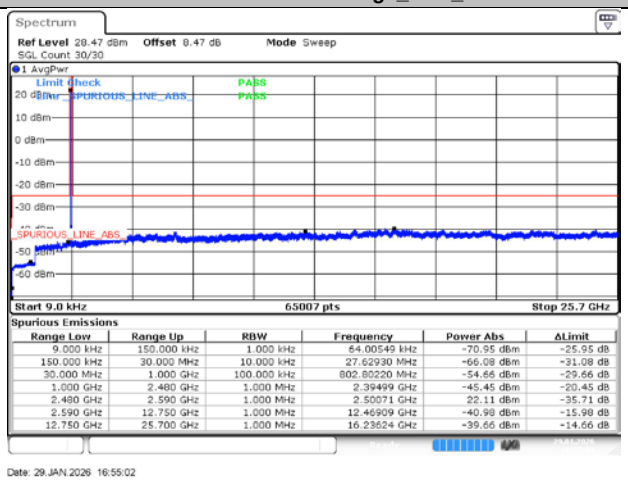


Spurious Emissions

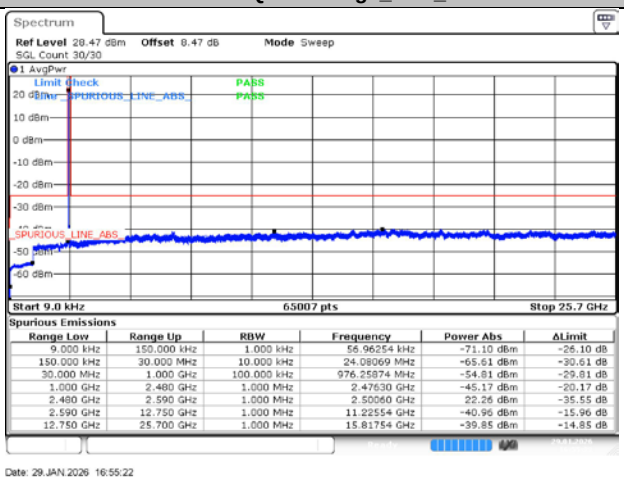
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	66.82268 kHz	-70.07 dBm	-25.07 dB
150.000 kHz	30.000 MHz	10.000 kHz	24.25962 MHz	-66.19 dBm	-31.19 dB
30.000 MHz	1.000 GHz	100.000 kHz	928.77622 MHz	-54.70 dBm	-29.70 dB
1.000 GHz	2.480 GHz	1.000 MHz	2.19243 GHz	-45.99 dBm	-20.99 dB
2.480 GHz	2.590 GHz	1.000 MHz	2.55544 GHz	22.30 dBm	-42.99 dB
2.590 GHz	12.750 GHz	1.000 MHz	6.99133 GHz	-40.96 dBm	-15.96 dB
12.750 GHz	25.700 GHz	1.000 MHz	16.26214 GHz	-39.70 dBm	-14.70 dB

n7A / 15KHz / 20MHz

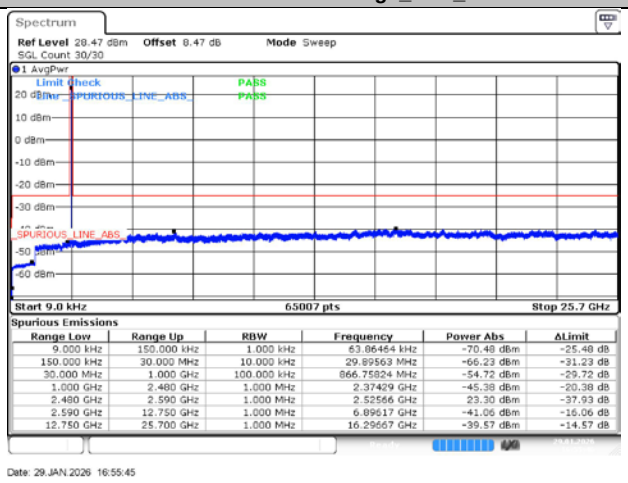
LCH / DFT-Pi2BPSK / Edge_1RB_Left



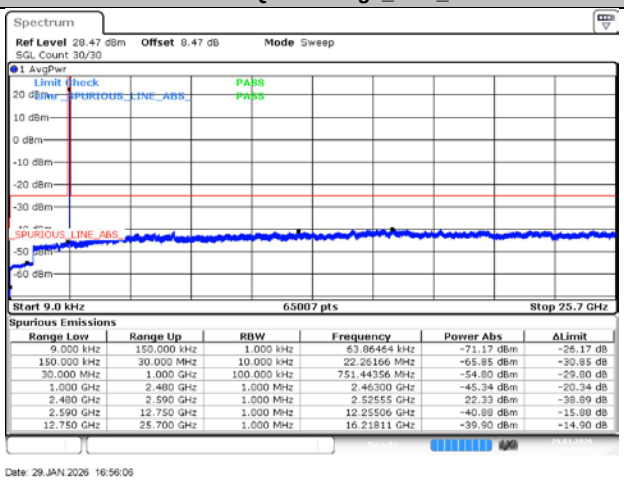
LCH / DFT-QPSK / Edge_1RB_Left



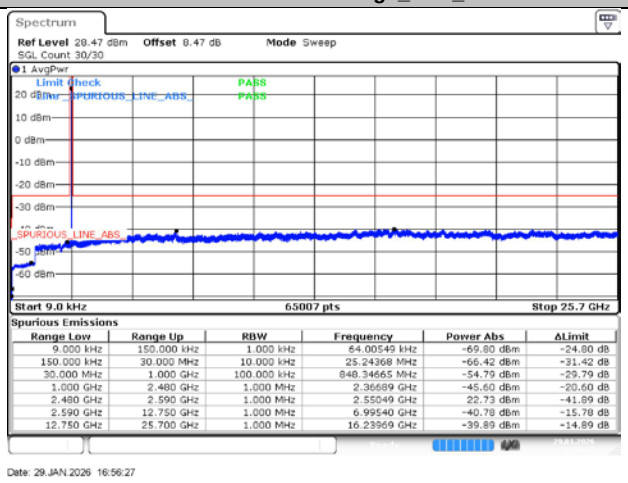
MCH / DFT-Pi2BPSK / Edge_1RB_Left



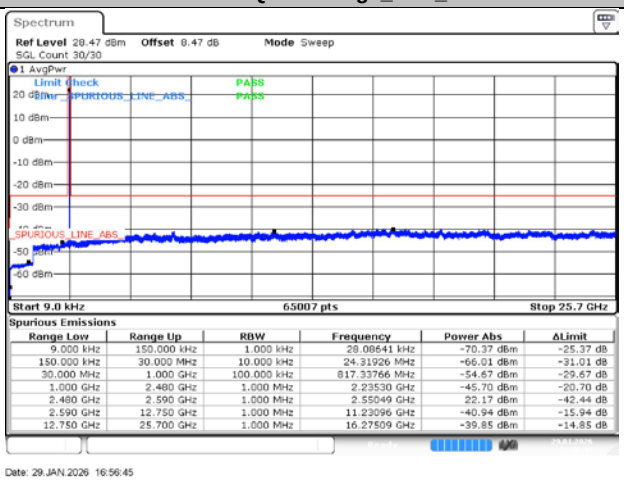
MCH / DFT-QPSK / Edge_1RB_Left



HCH / DFT-Pi2BPSK / Edge_1RB_Left

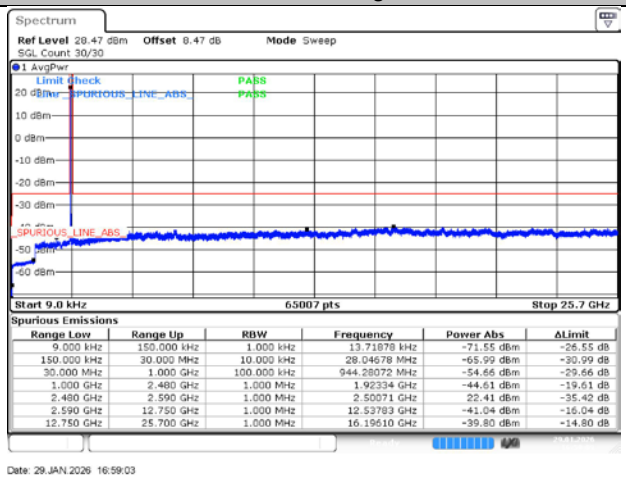


HCH / DFT-QPSK / Edge_1RB_Left

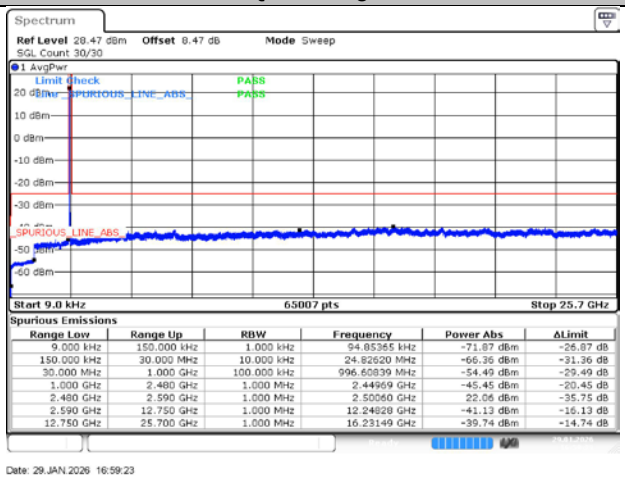


n7A / 15KHz / 25MHz

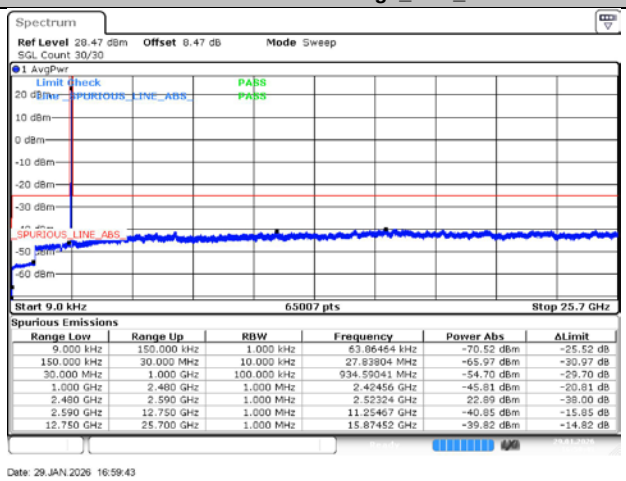
LCH / DFT-Pi2BPSK / Edge_1RB_Left



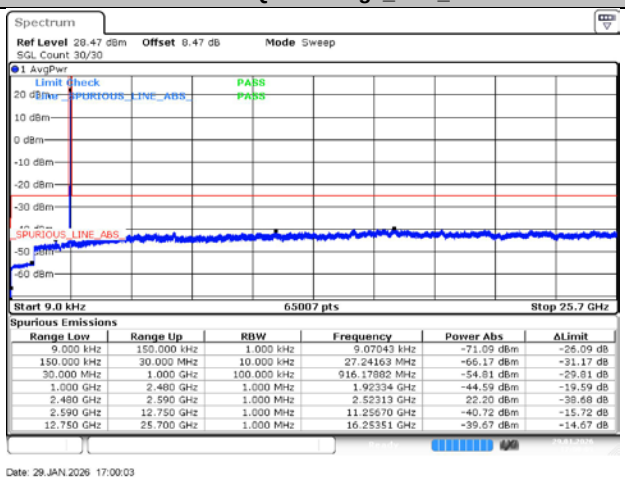
LCH / DFT-QPSK / Edge_1RB_Left



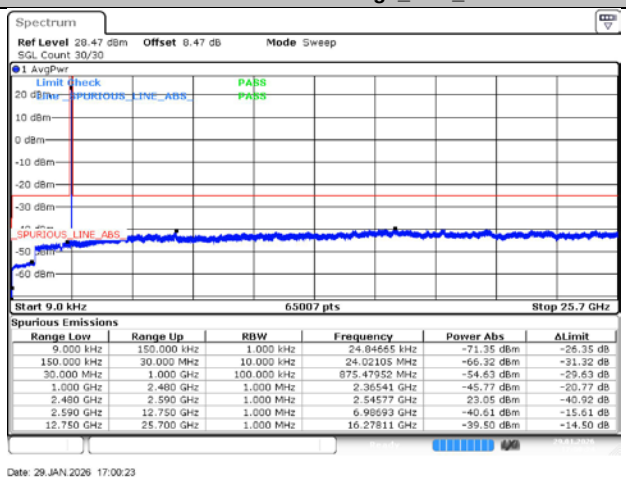
MCH / DFT-Pi2BPSK / Edge_1RB_Left



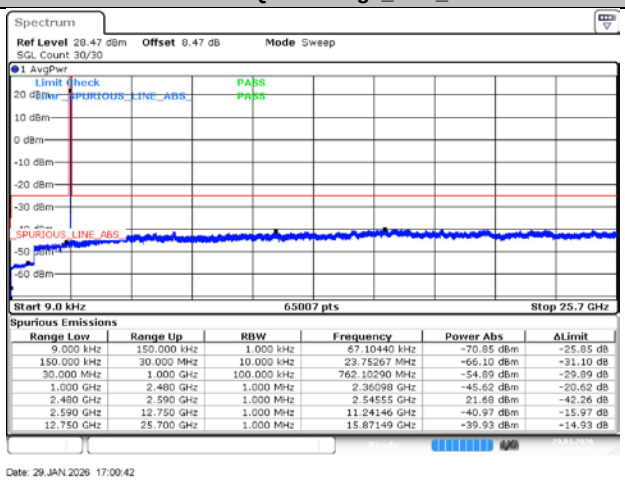
MCH / DFT-QPSK / Edge_1RB_Left



HCH / DFT-Pi2BPSK / Edge_1RB_Left

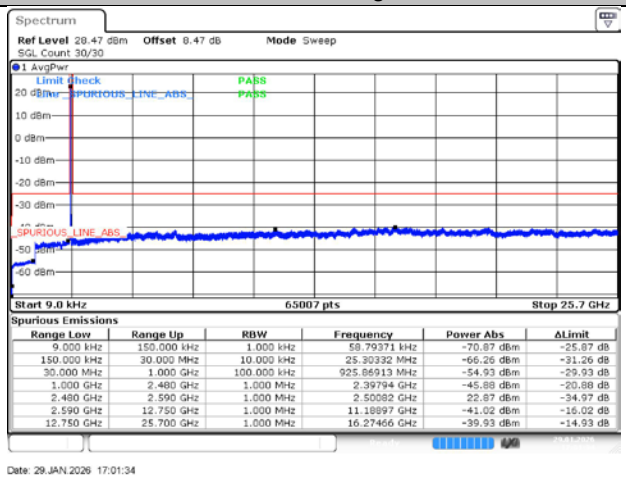


HCH / DFT-QPSK / Edge_1RB_Left

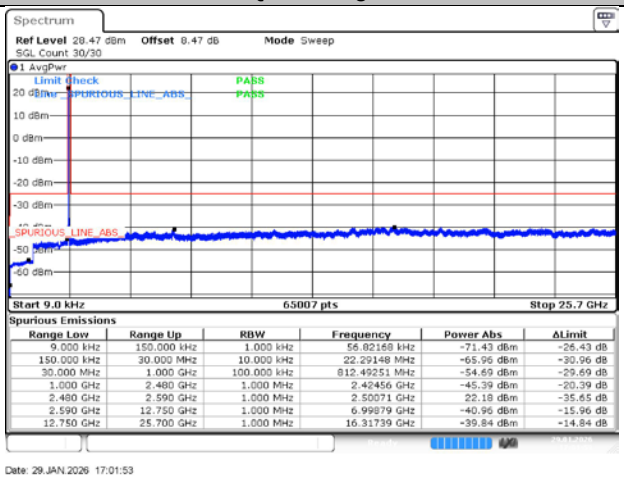


n7A / 15KHz / 30MHz

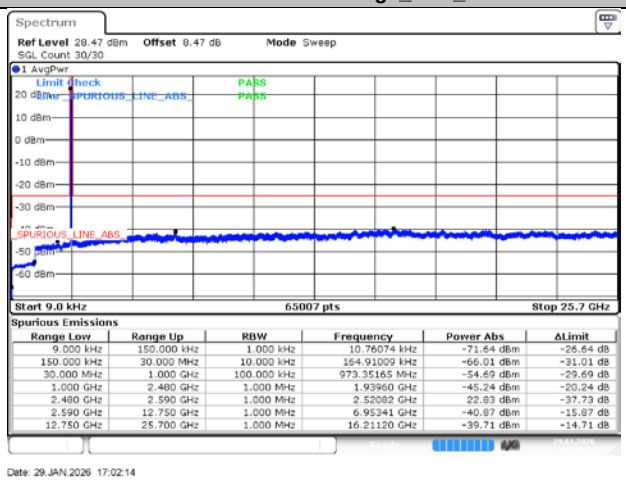
LCH / DFT-Pi2BPSK / Edge_1RB_Left



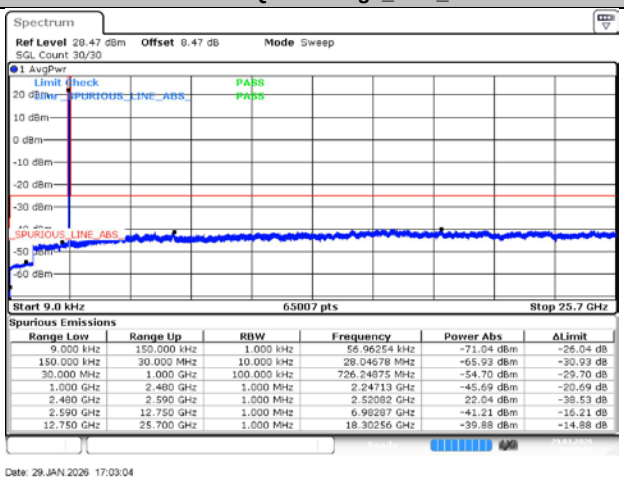
LCH / DFT-QPSK / Edge_1RB_Left



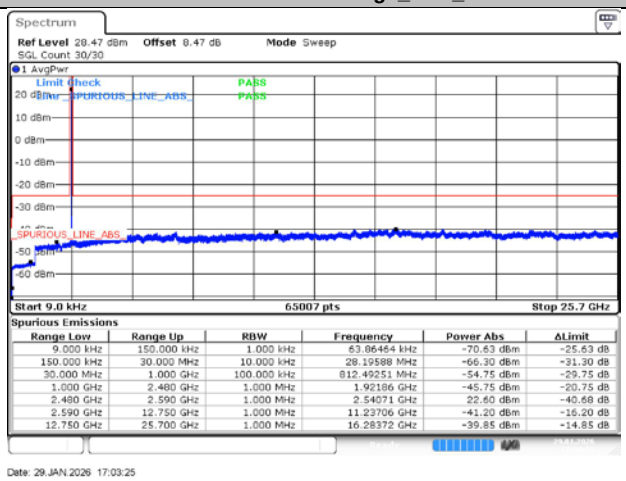
MCH / DFT-Pi2BPSK / Edge_1RB_Left



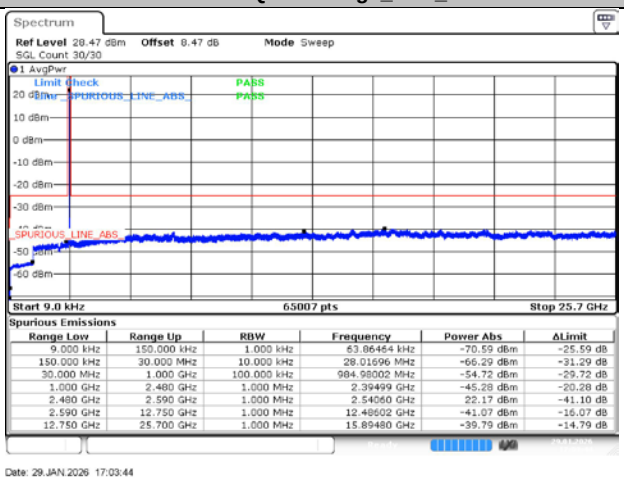
MCH / DFT-QPSK / Edge_1RB_Left



HCH / DFT-Pi2BPSK / Edge_1RB_Left

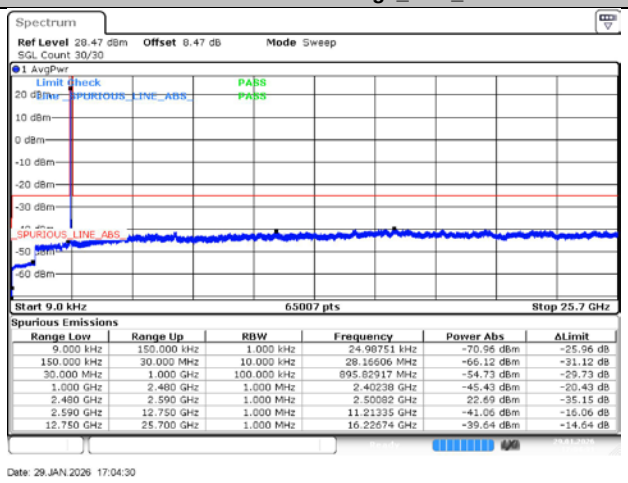


HCH / DFT-QPSK / Edge_1RB_Left

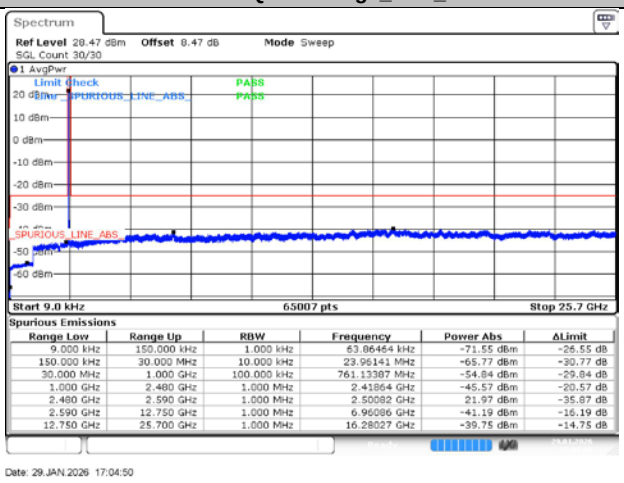


n7A / 15KHz / 35MHz

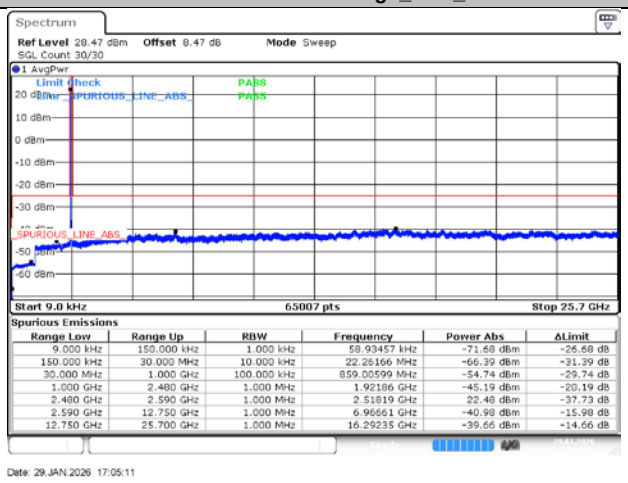
LCH / DFT-Pi2BPSK / Edge_1RB_Left



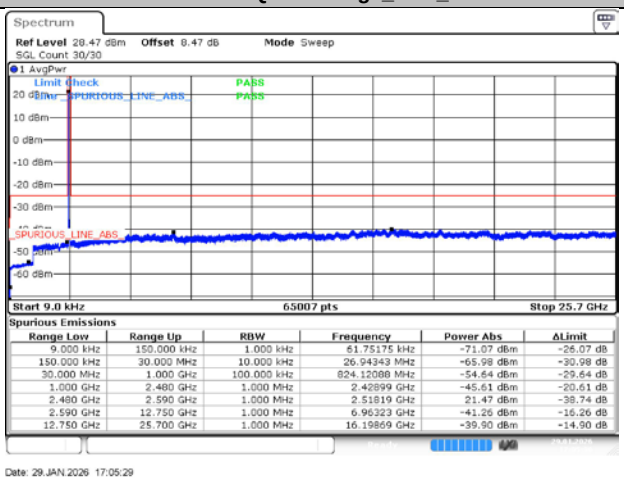
LCH / DFT-QPSK / Edge_1RB_Left



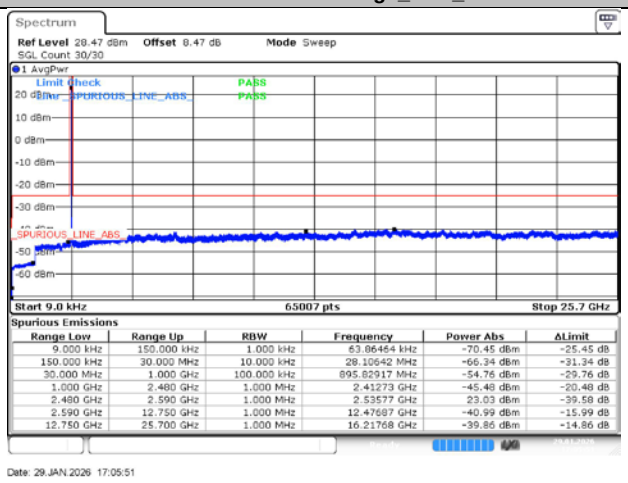
MCH / DFT-Pi2BPSK / Edge_1RB_Left



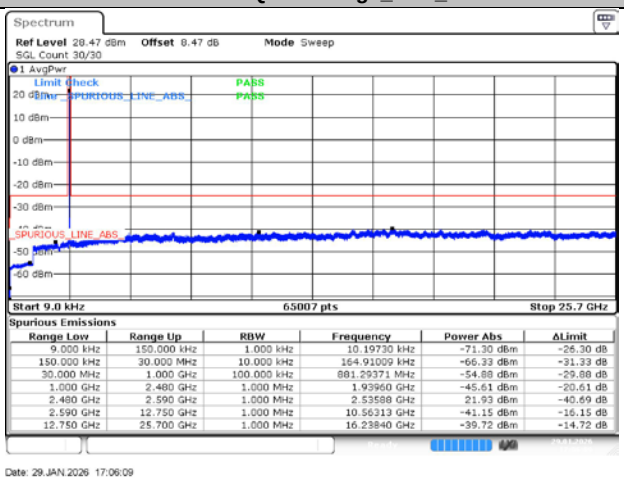
MCH / DFT-QPSK / Edge_1RB_Left



HCH / DFT-Pi2BPSK / Edge_1RB_Left

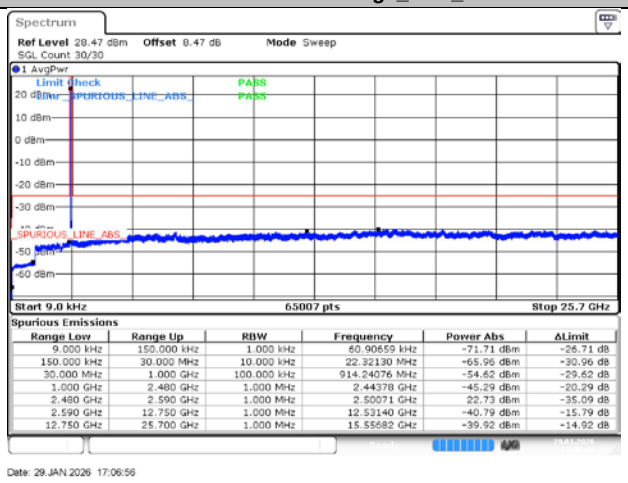


HCH / DFT-QPSK / Edge_1RB_Left



n7A / 15KHz / 40MHz

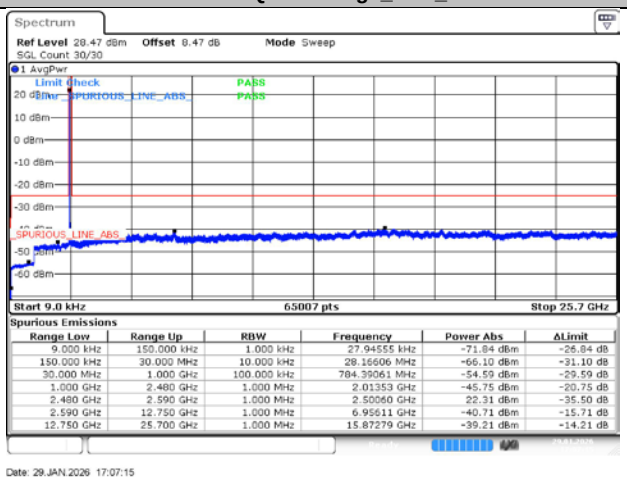
LCH / DFT-Pi2BPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	60.90659 kHz	-71.71 dBm	-26.71 dB
150.000 kHz	30.000 MHz	10.000 kHz	22.32130 MHz	-65.96 dBm	-30.96 dB
30.000 MHz	1.000 GHz	100.000 kHz	914.24076 MHz	-54.62 dBm	-29.62 dB
1.000 GHz	2.480 GHz	1.000 MHz	2.44378 GHz	-45.29 dBm	-20.29 dB
2.480 GHz	2.590 GHz	1.000 MHz	2.50071 GHz	22.73 dBm	-35.09 dB
2.590 GHz	12.750 GHz	1.000 MHz	12.53140 GHz	-40.79 dBm	-15.79 dB
12.750 GHz	25.700 GHz	1.000 MHz	15.55682 GHz	-39.92 dBm	-14.92 dB

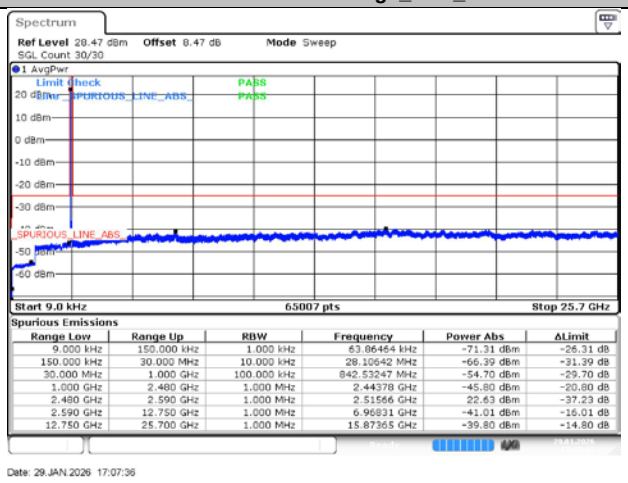
LCH / DFT-QPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	27.94555 kHz	-71.84 dBm	-26.84 dB
150.000 kHz	30.000 MHz	10.000 kHz	28.16606 MHz	-66.10 dBm	-31.10 dB
30.000 MHz	1.000 GHz	100.000 kHz	784.39061 MHz	-54.59 dBm	-29.59 dB
1.000 GHz	2.480 GHz	1.000 MHz	2.01353 GHz	-45.75 dBm	-20.75 dB
2.480 GHz	2.590 GHz	1.000 MHz	2.50060 GHz	22.31 dBm	-35.50 dB
2.590 GHz	12.750 GHz	1.000 MHz	6.95611 GHz	-40.71 dBm	-15.71 dB
12.750 GHz	25.700 GHz	1.000 MHz	15.87279 GHz	-39.21 dBm	-14.21 dB

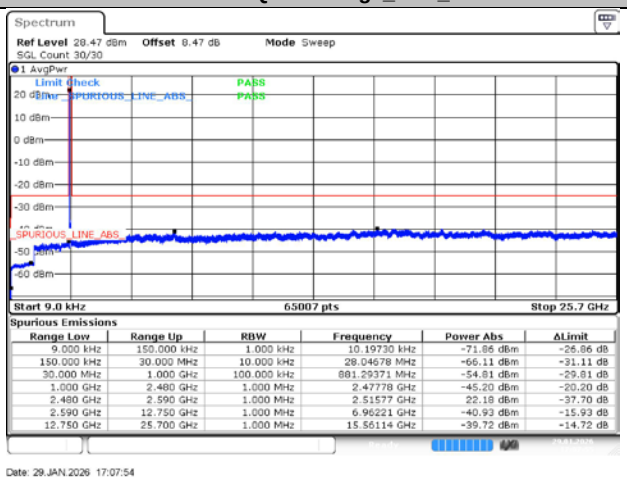
MCH / DFT-Pi2BPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	63.86464 kHz	-71.31 dBm	-26.31 dB
150.000 kHz	30.000 MHz	10.000 kHz	28.10642 MHz	-66.39 dBm	-31.39 dB
30.000 MHz	1.000 GHz	100.000 kHz	842.53247 MHz	-54.70 dBm	-29.70 dB
1.000 GHz	2.480 GHz	1.000 MHz	2.44378 GHz	-45.80 dBm	-20.80 dB
2.480 GHz	2.590 GHz	1.000 MHz	2.51566 GHz	22.63 dBm	-37.23 dB
2.590 GHz	12.750 GHz	1.000 MHz	6.96831 GHz	-41.01 dBm	-16.01 dB
12.750 GHz	25.700 GHz	1.000 MHz	15.87365 GHz	-39.80 dBm	-14.80 dB

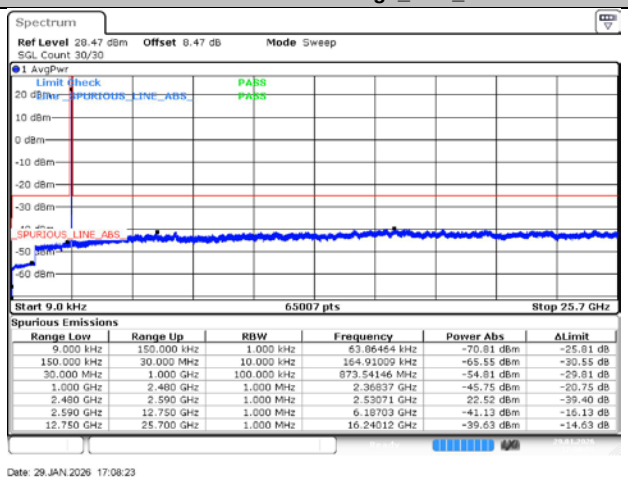
MCH / DFT-QPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	10.19730 kHz	-71.86 dBm	-26.86 dB
150.000 kHz	30.000 MHz	10.000 kHz	28.04678 MHz	-66.11 dBm	-31.11 dB
30.000 MHz	1.000 GHz	100.000 kHz	881.29371 MHz	-54.81 dBm	-29.81 dB
1.000 GHz	2.480 GHz	1.000 MHz	2.47778 GHz	-45.20 dBm	-20.20 dB
2.480 GHz	2.590 GHz	1.000 MHz	2.51577 GHz	22.18 dBm	-37.70 dB
2.590 GHz	12.750 GHz	1.000 MHz	6.96221 GHz	-40.93 dBm	-15.93 dB
12.750 GHz	25.700 GHz	1.000 MHz	15.56114 GHz	-39.72 dBm	-14.72 dB

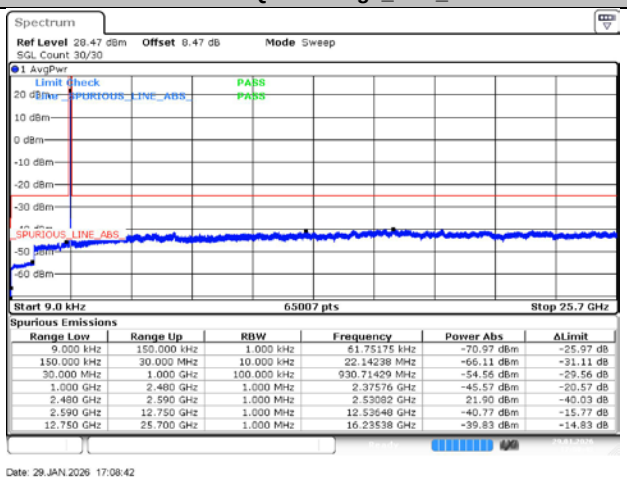
HCH / DFT-Pi2BPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	63.86464 kHz	-70.81 dBm	-25.81 dB
150.000 kHz	30.000 MHz	10.000 kHz	164.91009 kHz	-65.55 dBm	-30.55 dB
30.000 MHz	1.000 GHz	100.000 kHz	873.54146 MHz	-54.81 dBm	-29.81 dB
1.000 GHz	2.480 GHz	1.000 MHz	2.36837 GHz	-45.75 dBm	-20.75 dB
2.480 GHz	2.590 GHz	1.000 MHz	2.53071 GHz	22.52 dBm	-39.40 dB
2.590 GHz	12.750 GHz	1.000 MHz	6.18703 GHz	-41.13 dBm	-16.13 dB
12.750 GHz	25.700 GHz	1.000 MHz	16.24012 GHz	-39.63 dBm	-14.63 dB

HCH / DFT-QPSK / Edge_1RB_Left

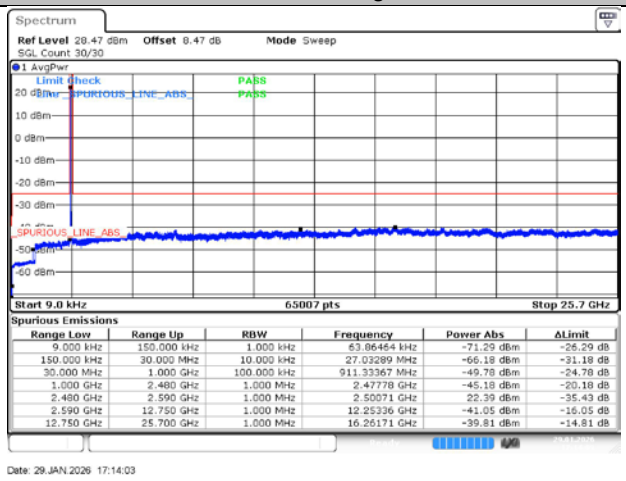


Spurious Emissions

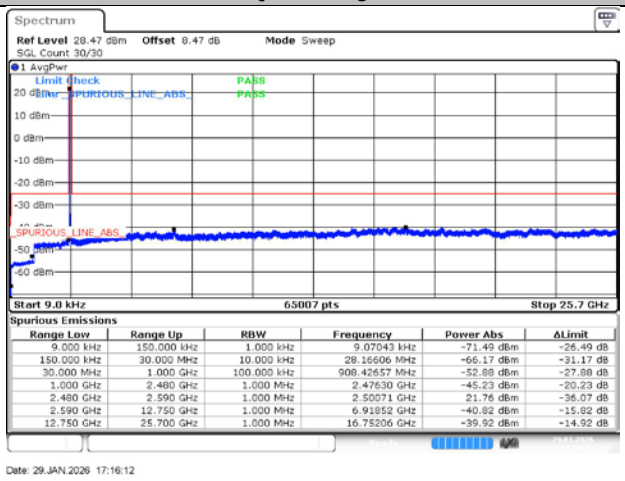
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	61.75175 kHz	-70.97 dBm	-25.97 dB
150.000 kHz	30.000 MHz	10.000 kHz	22.14238 MHz	-66.11 dBm	-31.11 dB
30.000 MHz	1.000 GHz	100.000 kHz	930.71429 MHz	-54.56 dBm	-29.56 dB
1.000 GHz	2.480 GHz	1.000 MHz	2.37576 GHz	-45.57 dBm	-20.57 dB
2.480 GHz	2.590 GHz	1.000 MHz	2.53082 GHz	21.90 dBm	-40.03 dB
2.590 GHz	12.750 GHz	1.000 MHz	12.53648 GHz	-40.77 dBm	-15.77 dB
12.750 GHz	25.700 GHz	1.000 MHz	16.23538 GHz	-39.83 dBm	-14.83 dB

n7A / 15KHz / 50MHz

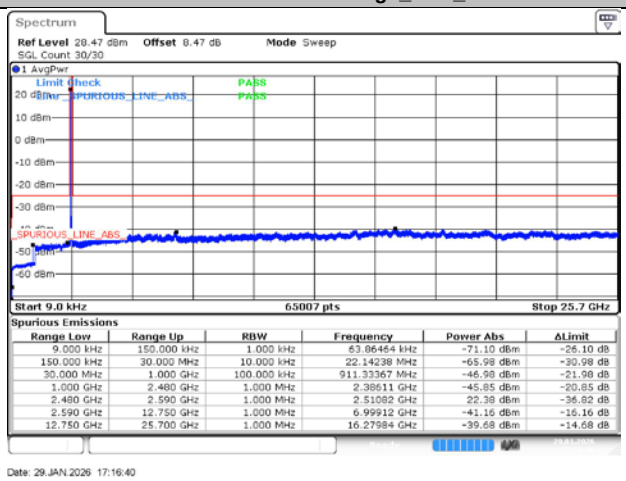
LCH / DFT-Pi2BPSK / Edge_1RB_Left



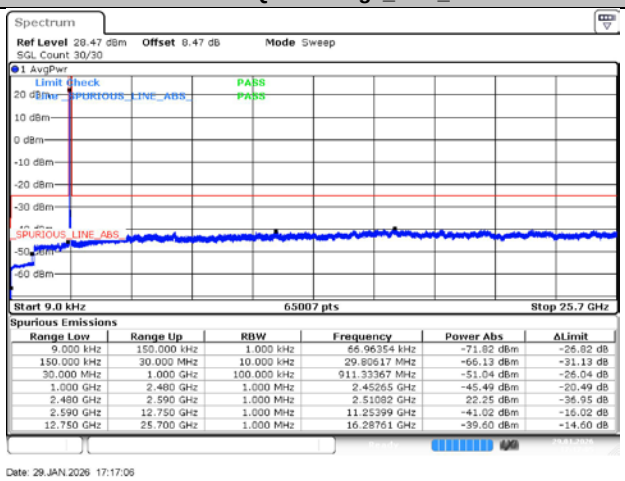
LCH / DFT-QPSK / Edge_1RB_Left



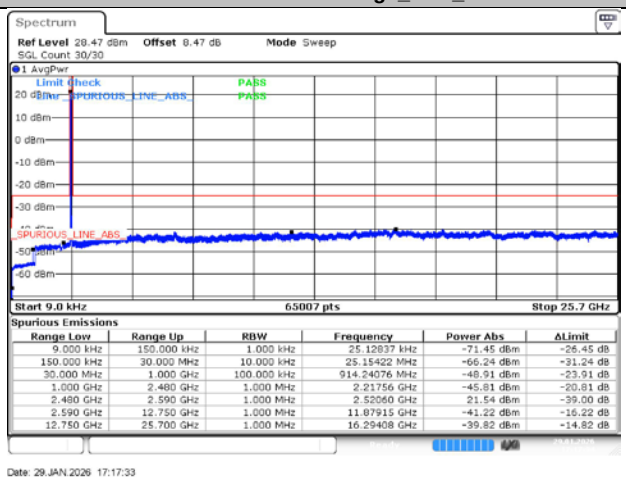
MCH / DFT-Pi2BPSK / Edge_1RB_Left



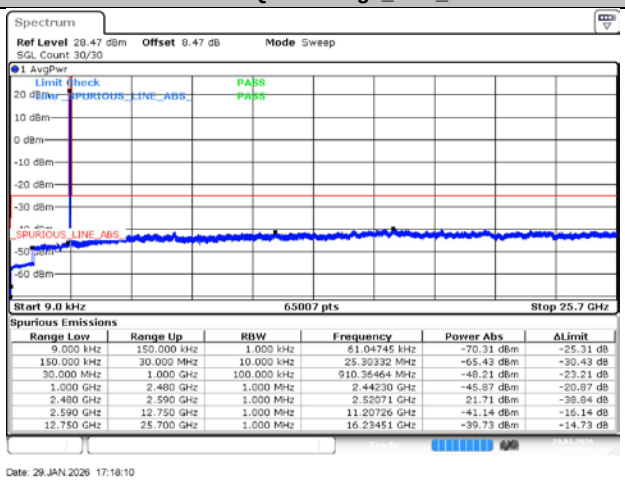
MCH / DFT-QPSK / Edge_1RB_Left



HCH / DFT-Pi2BPSK / Edge_1RB_Left



HCH / DFT-QPSK / Edge_1RB_Left



7. Frequency Stability

7.1. Test Results

7.1.1. Frequency Error Vs Voltage

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	NT	LV	-0.70	-0.000276	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	NT	NV	-9.90	-0.003905	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	NT	HV	-6.60	-0.002604	Pass

7.1.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	-30℃	NV	-5.00	-0.001972	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	-20℃	NV	-9.00	-0.003550	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	-10℃	NV	9.50	0.003748	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	0℃	NV	-5.60	-0.002209	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	10℃	NV	-4.00	-0.001578	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	20℃	NV	-6.20	-0.002446	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	30℃	NV	-12.00	-0.004734	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	40℃	NV	-6.50	-0.002564	Pass
15KHz	50MHz	MCH	Outer_Full	DFT-QPSK	50℃	NV	3.90	0.001538	Pass

The End