Appendix
for
n2A
(1850-1910)

Catalogue

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1. Effective Isotropic Radiated Power

1.1. Test Results @ Ant1 (Antenna Gain=-1.00dBi)

SCS	Bandwidth	Channel	Modulation	Conducted Result (dBm)			Max EIRP (dBm)	Limit (dBm)	Verdict
				Inner_1RB_Left	Inner_1RB_Right	Inner_Full			
15KHz	5MHz	LCH	DFT-Pi2BPSK	23.24	23.18	23.20	22.24	33.00	Pass
15KHz	5MHz	LCH	DFT-QPSK	23.31	23.19	23.16	22.31	33.00	Pass
15KHz	5MHz	LCH	DFT-16QAM	22.98	22.84	23.01	22.01	33.00	Pass
15KHz	5MHz	LCH	DFT-64QAM	21.71	21.56	21.49	20.71	33.00	Pass
15KHz	5MHz	LCH	DFT-256QAM	18.86	18.81	19.42	18.42	33.00	Pass
15KHz	5MHz	LCH	CP-QPSK	22.35	22.23	22.43	21.43	33.00	Pass
15KHz	5MHz	MCH	DFT-Pi2BPSK	22.95	22.86	22.91	21.95	33.00	Pass
15KHz	5MHz	MCH	DFT-QPSK	22.93	22.88	22.90	21.93	33.00	Pass
15KHz	5MHz	MCH	DFT-16QAM	22.73	22.64	22.74	21.74	33.00	Pass
15KHz	5MHz	MCH	DFT-64QAM	21.36	21.31	21.20	20.36	33.00	Pass
15KHz	5MHz	MCH	DFT-256QAM	18.63	18.57	19.12	18.12	33.00	Pass
15KHz	5MHz	MCH	CP-QPSK	22.09	22.01	22.21	21.21	33.00	Pass
15KHz	5MHz	HCH	DFT-Pi2BPSK	23.04	23.02	23.05	22.05	33.00	Pass
15KHz	5MHz	HCH	DFT-QPSK	23.10	23.00	23.11	22.11	33.00	Pass
15KHz	5MHz	HCH	DFT-16QAM	22.80	22.68	22.73	21.80	33.00	Pass
15KHz	5MHz	HCH	DFT-64QAM	21.36	21.32	21.23	20.36	33.00	Pass
15KHz	5MHz	HCH	DFT-256QAM	18.68	18.57	19.17	18.17	33.00	Pass
15KHz	5MHz	HCH	CP-QPSK	22.20	22.03	22.17	21.20	33.00	Pass
15KHz	10MHz	LCH	DFT-Pi2BPSK	23.25	23.06	23.19	22.25	33.00	Pass
15KHz	10MHz	LCH	DFT-QPSK	23.25	23.14	23.18	22.25	33.00	Pass
15KHz	10MHz	LCH	DFT-16QAM	22.95	22.81	22.89	21.95	33.00	Pass
15KHz	10MHz	LCH	DFT-64QAM	21.69	21.46	21.39	20.69	33.00	Pass
15KHz	10MHz	LCH	DFT-256QAM	18.95	18.71	19.34	18.34	33.00	Pass
15KHz	10MHz	LCH	CP-QPSK	22.33	22.20	22.34	21.34	33.00	Pass
15KHz	10MHz	MCH	DFT-Pi2BPSK	22.89	22.91	22.96	21.96	33.00	Pass
15KHz	10MHz	MCH	DFT-QPSK	22.95	22.83	22.87	21.95	33.00	Pass
15KHz	10MHz	MCH	DFT-16QAM	22.69	22.62	22.66	21.69	33.00	Pass
15KHz	10MHz	MCH	DFT-64QAM	21.37	21.25	21.10	20.37	33.00	Pass
15KHz	10MHz	MCH	DFT-256QAM	18.61	18.52	19.09	18.09	33.00	Pass
15KHz	10MHz	MCH	CP-QPSK	22.10	21.96	22.11	21.11	33.00	Pass
15KHz	10MHz	HCH	DFT-Pi2BPSK	23.06	23.08	22.95	22.08	33.00	Pass
15KHz	10MHz	HCH	DFT-QPSK	23.03	23.03	22.90	22.03	33.00	Pass
15KHz	10MHz	HCH	DFT-16QAM	22.57	22.73	22.65	21.73	33.00	Pass
15KHz	10MHz	HCH	DFT-64QAM	21.35	21.35	21.16	20.35	33.00	Pass
15KHz	10MHz	HCH	DFT-256QAM	18.61	18.64	19.10	18.10	33.00	Pass
15KHz	10MHz	HCH	CP-QPSK	21.98	22.15	22.12	21.15	33.00	Pass
15KHz	15MHz	LCH	DFT-Pi2BPSK	23.27	23.15	23.27	22.27	33.00	Pass
15KHz	15MHz	LCH	DFT-QPSK	23.34	23.27	23.25	22.34	33.00	Pass
15KHz	15MHz	LCH	DFT-16QAM	23.02	22.78	23.01	22.02	33.00	Pass
15KHz	15MHz	LCH	DFT-64QAM	21.67	21.49	21.51	20.67	33.00	Pass
15KHz	15MHz	LCH	DFT-256QAM	18.99	18.83	19.35	18.35	33.00	Pass
15KHz	15MHz	LCH	CP-QPSK	22.50	22.37	22.42	21.50	33.00	Pass
15KHz	15MHz	MCH	DFT-Pi2BPSK	23.06	22.99	23.07	22.07	33.00	Pass
15KHz	15MHz	MCH	DFT-QPSK	23.09	23.05	23.03	22.09	33.00	Pass
15KHz	15MHz	MCH	DFT-16QAM	22.71	22.69	22.77	21.77	33.00	Pass
15KHz	15MHz	MCH	DFT-64QAM	21.35	21.33	21.29	20.35	33.00	Pass
15KHz	15MHz	MCH	DFT-256QAM	18.74	18.63	19.12	18.12	33.00	Pass
15KHz	15MHz	MCH	CP-QPSK	22.27	22.21	22.17	21.27	33.00	Pass
15KHz	15MHz	HCH	DFT-Pi2BPSK	22.97	23.08	22.97	22.08	33.00	Pass
15KHz	15MHz	HCH	DFT-QPSK	23.00	23.06	23.04	22.06	33.00	Pass
15KHz	15MHz	HCH	DFT-16QAM	22.62	22.67	22.75	21.75	33.00	Pass
15KHz	15MHz	HCH	DFT-64QAM	21.41	21.46	21.29	20.46	33.00	Pass
15KHz	15MHz	HCH	DFT-256QAM	18.72	18.79	19.21	18.21	33.00	Pass
15KHz	15MHz	HCH	CP-QPSK	22.17	22.27	22.25	21.27	33.00	Pass
15KHz	20MHz	LCH	DFT-Pi2BPSK	23.35	23.14	23.20	22.35	33.00	Pass
15KHz	20MHz	LCH	DFT-QPSK	23.37	23.14	23.25	22.37	33.00	Pass
15KHz	20MHz	LCH	DFT-16QAM	22.99	22.73	23.01	22.01	33.00	Pass
15KHz	20MHz	LCH	DFT-64QAM	21.74	21.46	21.49	20.74	33.00	Pass
15KHz	20MHz	LCH	DFT-256QAM	18.94	18.71	19.39	18.39	33.00	Pass

15KHz	20MHz	LCH	CP-QPSK	22.43	22.23	22.44	21.44	33.00	Pass
15KHz	20MHz	MCH	DFT-Pi2BPSK	23.03	22.99	22.95	22.03	33.00	Pass
15KHz	20MHz	MCH	DFT-QPSK	23.05	23.01	22.98	22.05	33.00	Pass
15KHz	20MHz	MCH	DFT-16QAM	22.70	22.68	22.73	21.73	33.00	Pass
15KHz	20MHz	MCH	DFT-64QAM	21.43	21.39	21.26	20.43	33.00	Pass
15KHz	20MHz	MCH	DFT-256QAM	18.75	18.62	19.18	18.18	33.00	Pass
15KHz	20MHz	MCH	CP-QPSK	22.21	22.10	22.15	21.21	33.00	Pass
15KHz	20MHz	HCH	DFT-Pi2BPSK	22.92	23.08	23.02	22.08	33.00	Pass
15KHz	20MHz	HCH	DFT-QPSK	22.90	23.12	22.97	22.12	33.00	Pass
15KHz	20MHz	HCH	DFT-16QAM	22.60	22.79	22.75	21.79	33.00	Pass
15KHz	20MHz	HCH	DFT-64QAM	21.35	21.63	21.25	20.63	33.00	Pass
15KHz	20MHz	HCH	DFT-256QAM	18.62	18.72	19.17	18.17	33.00	Pass
15KHz	20MHz	HCH	CP-QPSK	22.15	22.26	22.18	21.26	33.00	Pass

2. Peak-to-Average Ratio

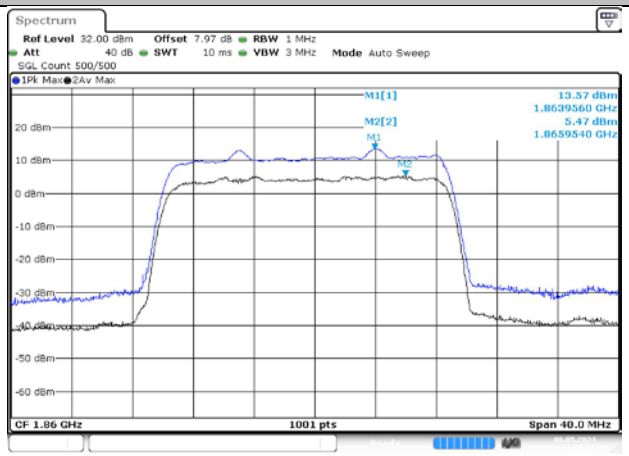
2.1. Test Results

SCS	Bandwidth	Channel	RB	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
15KHz	20MHz	LCH	Outer_Full	8.10	7.07	13.00	Pass
15KHz	20MHz	MCH	Outer_Full	8.50	6.99	13.00	Pass
15KHz	20MHz	HCH	Outer_Full	7.88	7.95	13.00	Pass

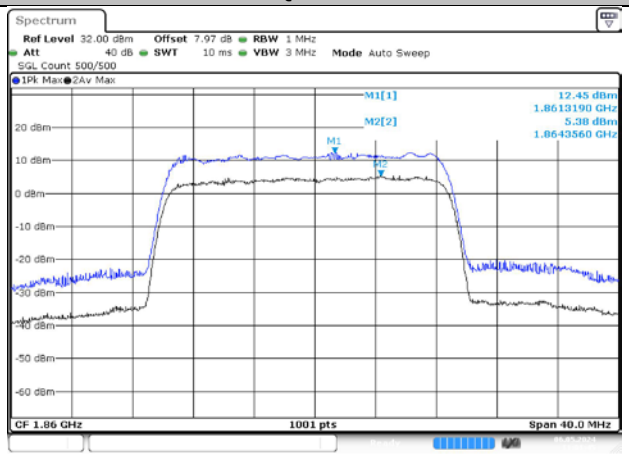
2.2. Test Plots

n2A / 15KHz / 20MHz

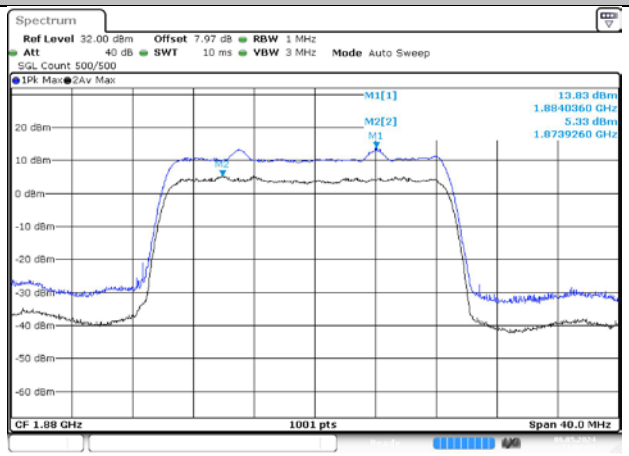
LCH / DFT-Pi2BPSK / Outer_Full



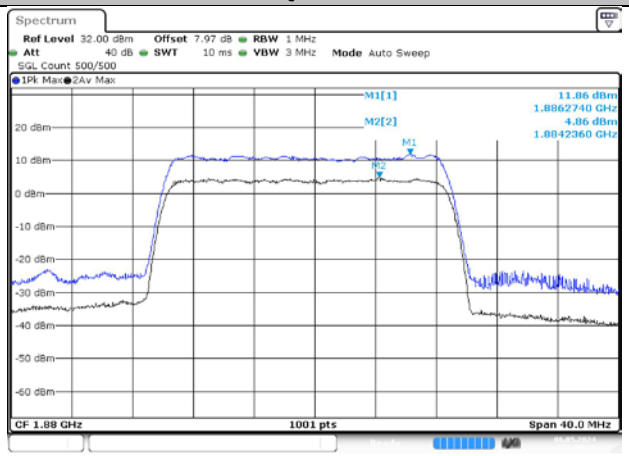
LCH / DFT-QPSK / Outer_Full



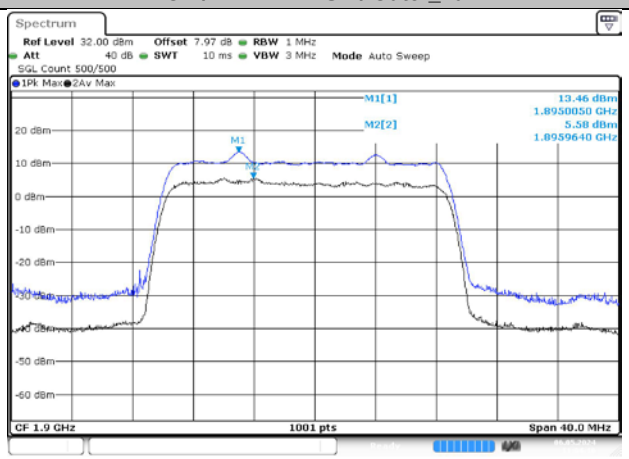
MCH / DFT-Pi2BPSK / Outer_Full



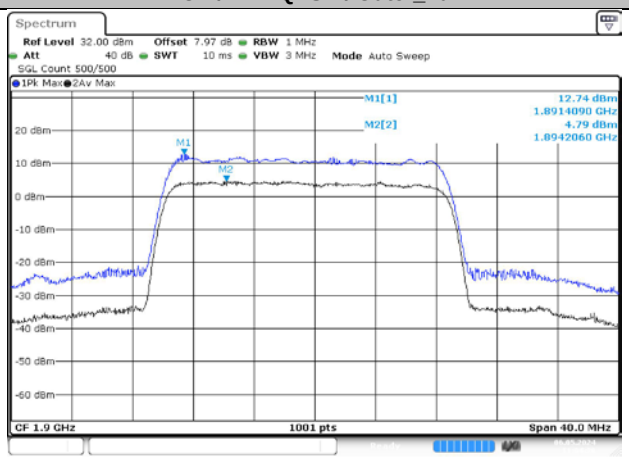
MCH / DFT-QPSK / Outer_Full



HCH / DFT-Pi2BPSK / Outer_Full

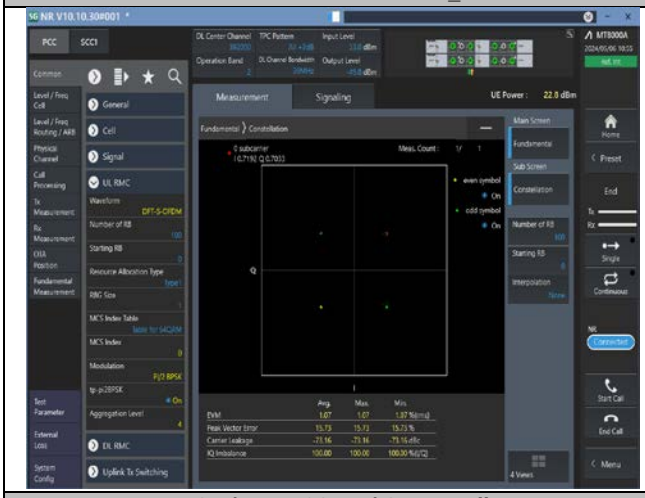
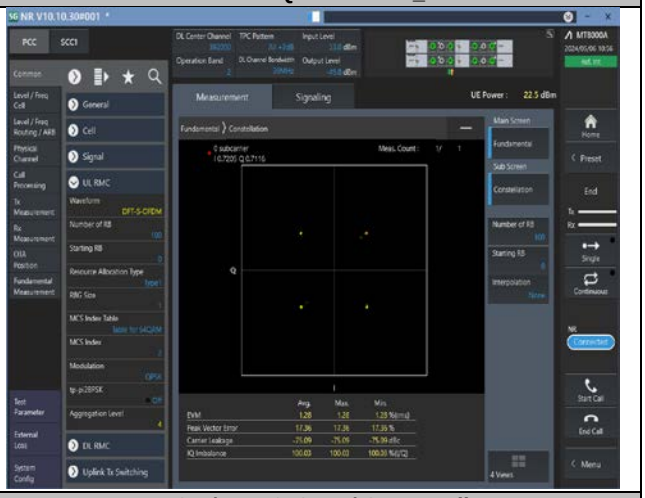
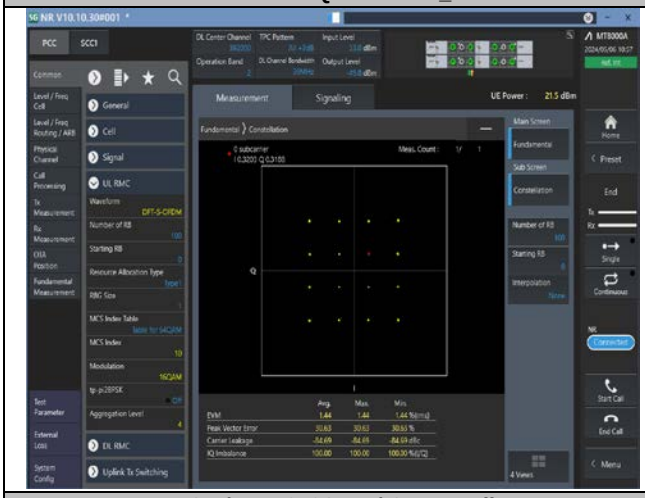
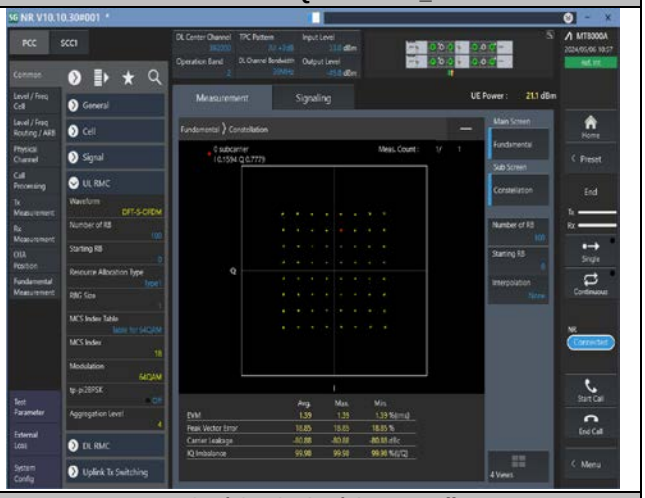
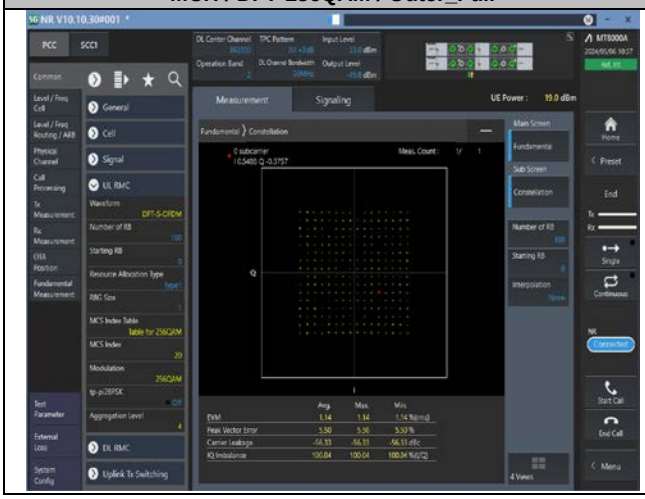
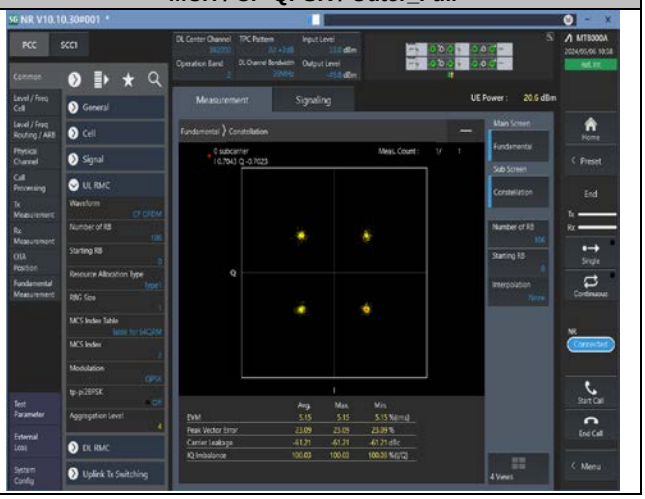


HCH / DFT-QPSK / Outer_Full

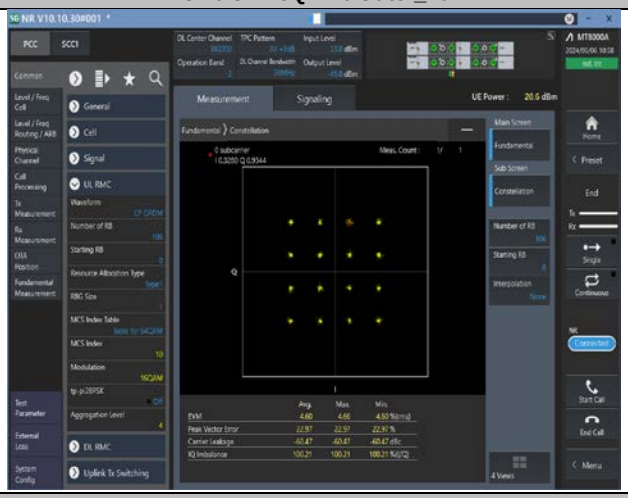


3. Modulation Characteristics

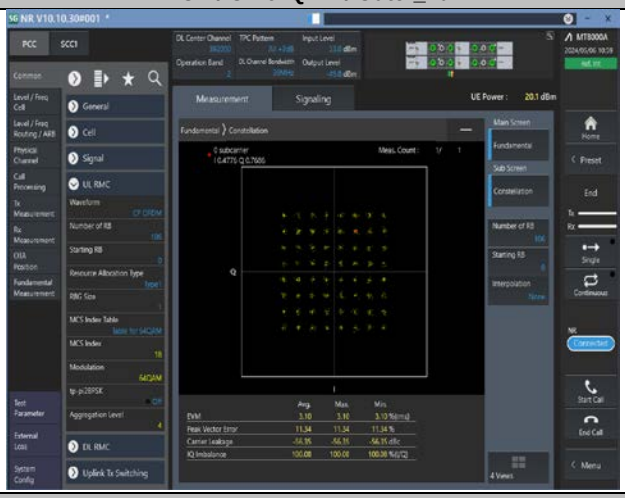
3.1. Test Plots

n2A / 15KHz / 20MHz	
MCH / DFT-Pi2BPSK / Outer_Full	MCH / DFT-QPSK / Outer_Full
	
MCH / DFT-16QAM / Outer_Full	MCH / DFT-64QAM / Outer_Full
	
MCH / DFT-256QAM / Outer_Full	MCH / CP-QPSK / Outer_Full
	

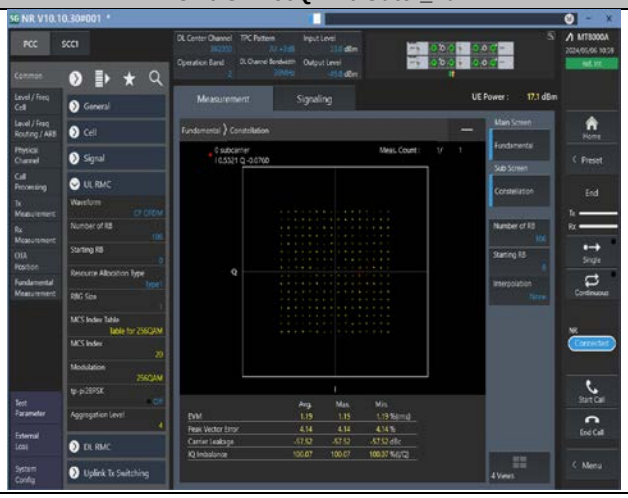
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full



MCH / CP-256QAM / Outer_Full



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4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

4.1. Test Results

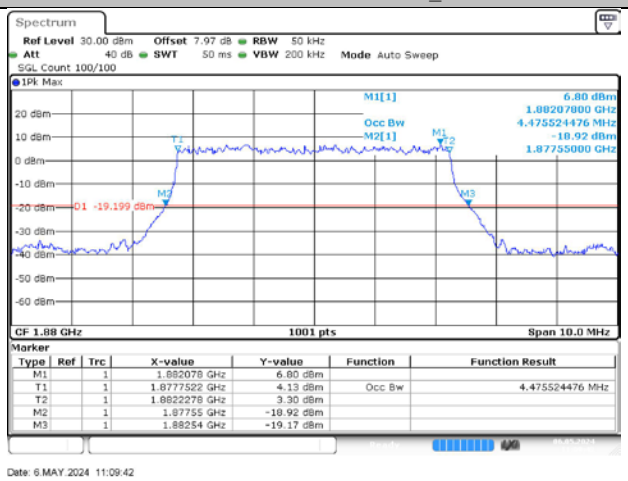
SCS	Bandwidth	Modulation	RB	99% Occupied Bandwidth (MHz)	26dB Emission Bandwidth (MHz)	Verdict
15KHz	5MHz	DFT-Pi2BPSK	Outer_Full	4.48	4.99	Pass
15KHz	5MHz	DFT-QPSK	Outer_Full	4.48	4.95	Pass
15KHz	5MHz	CP-QPSK	Outer_Full	4.50	5.19	Pass
15KHz	5MHz	CP-16QAM	Outer_Full	4.51	5.20	Pass
15KHz	5MHz	CP-64QAM	Outer_Full	4.49	5.21	Pass
15KHz	5MHz	CP-256QAM	Outer_Full	4.48	5.13	Pass
15KHz	10MHz	DFT-Pi2BPSK	Outer_Full	8.93	9.68	Pass
15KHz	10MHz	DFT-QPSK	Outer_Full	8.93	9.68	Pass
15KHz	10MHz	CP-QPSK	Outer_Full	9.29	10.16	Pass
15KHz	10MHz	CP-16QAM	Outer_Full	9.27	10.08	Pass
15KHz	10MHz	CP-64QAM	Outer_Full	9.29	9.96	Pass
15KHz	10MHz	CP-256QAM	Outer_Full	9.31	10.18	Pass
15KHz	15MHz	DFT-Pi2BPSK	Outer_Full	13.43	14.40	Pass
15KHz	15MHz	DFT-QPSK	Outer_Full	13.43	14.40	Pass
15KHz	15MHz	CP-QPSK	Outer_Full	14.12	15.18	Pass
15KHz	15MHz	CP-16QAM	Outer_Full	14.15	15.18	Pass
15KHz	15MHz	CP-64QAM	Outer_Full	14.12	15.15	Pass
15KHz	15MHz	CP-256QAM	Outer_Full	14.09	15.18	Pass
15KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.90	18.88	Pass
15KHz	20MHz	DFT-QPSK	Outer_Full	17.86	18.96	Pass
15KHz	20MHz	CP-QPSK	Outer_Full	18.94	20.04	Pass
15KHz	20MHz	CP-16QAM	Outer_Full	18.98	20.08	Pass

15KHz	20MHz	CP-64QAM	Outer_Full	18.94	20.00	Pass
15KHz	20MHz	CP-256QAM	Outer_Full	18.98	20.04	Pass

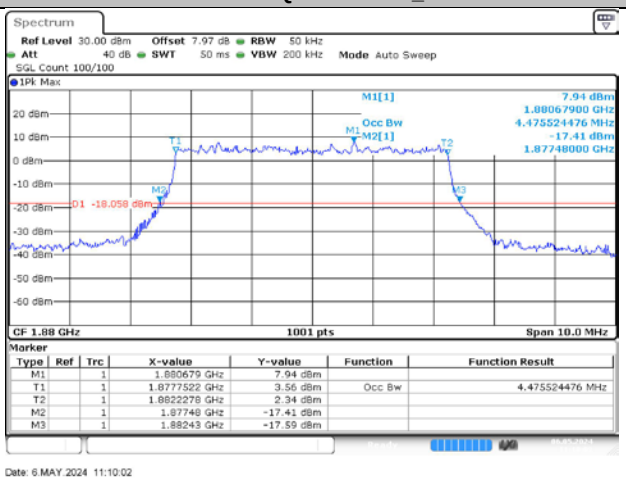
4.2. Test Plots

n2A / 15KHz / 5MHz

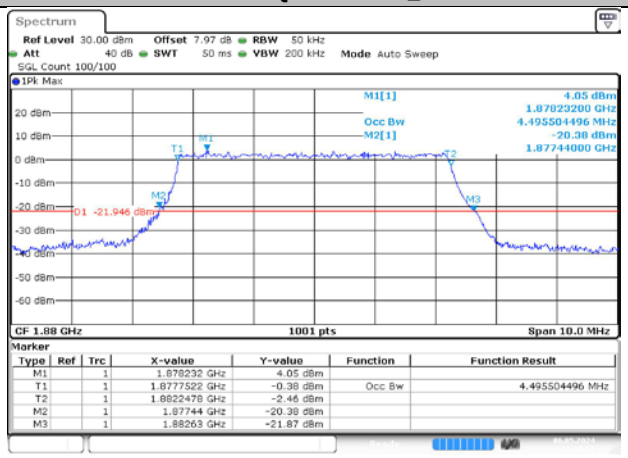
MCH / DFT-Pi2BPSK / Outer_Full



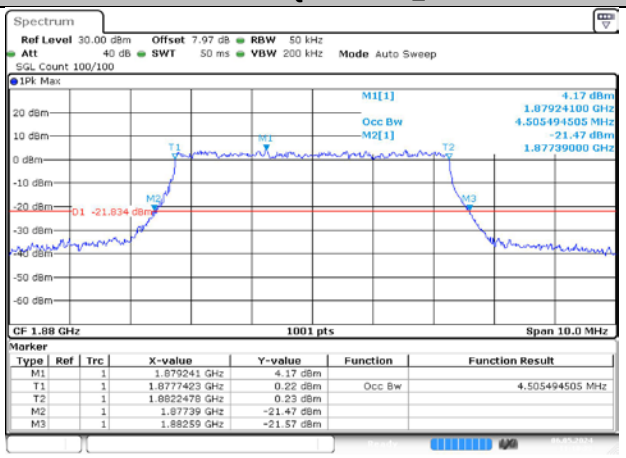
MCH / DFT-QPSK / Outer_Full



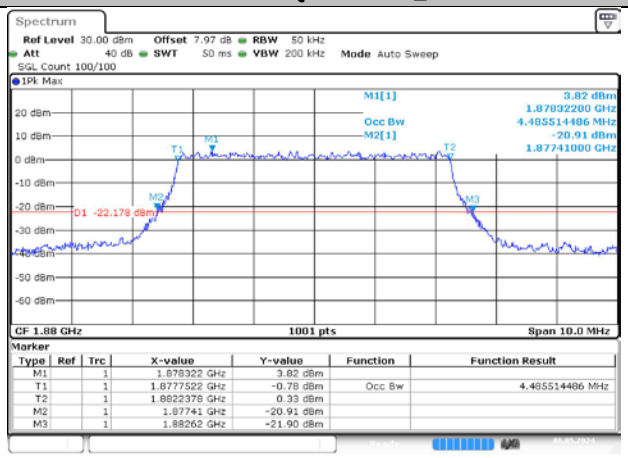
MCH / CP-QPSK / Outer_Full



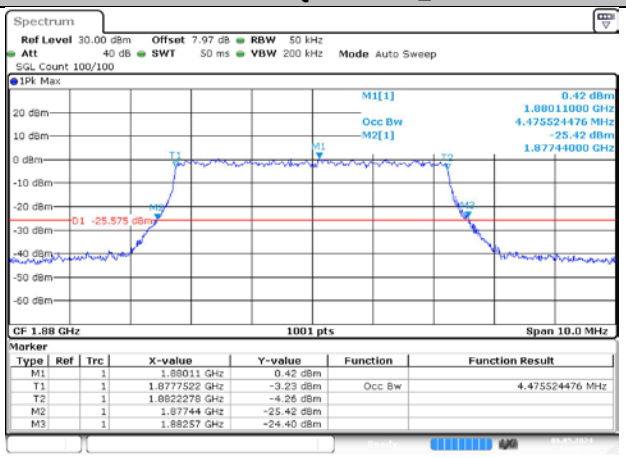
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

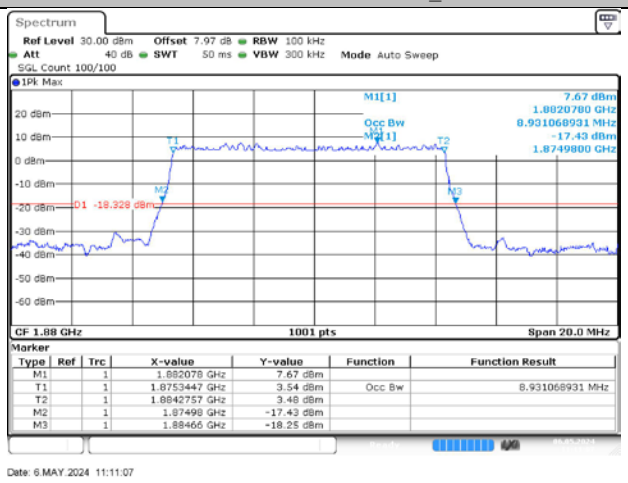


MCH / CP-256QAM / Outer_Full

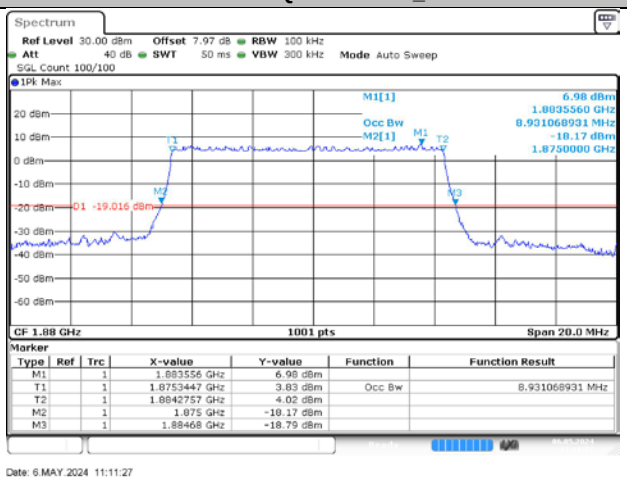


n2A / 15KHz / 10MHz

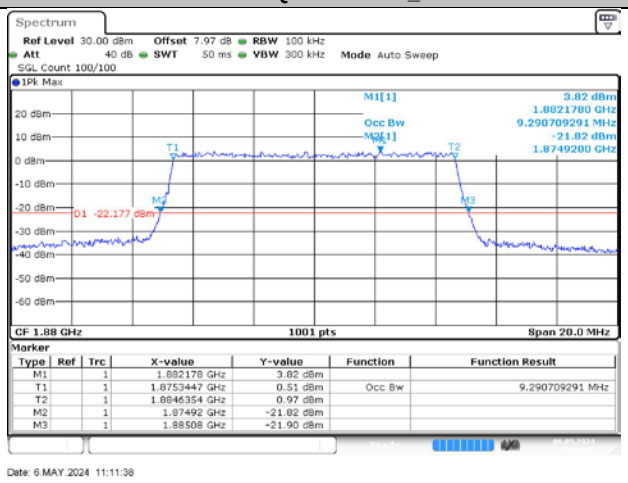
MCH / DFT-Pi2BPSK / Outer_Full



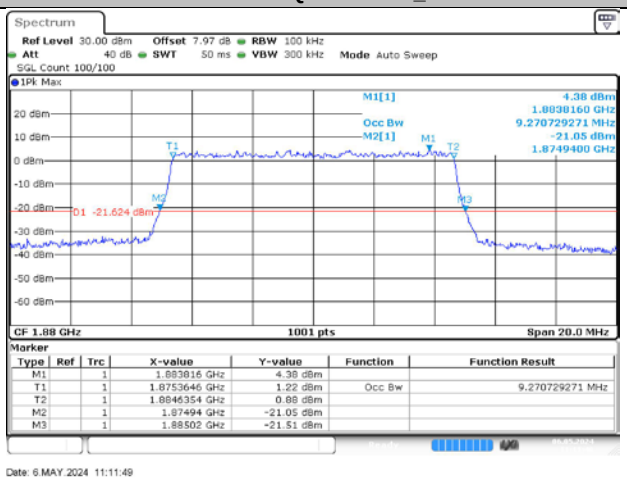
MCH / DFT-QPSK / Outer_Full



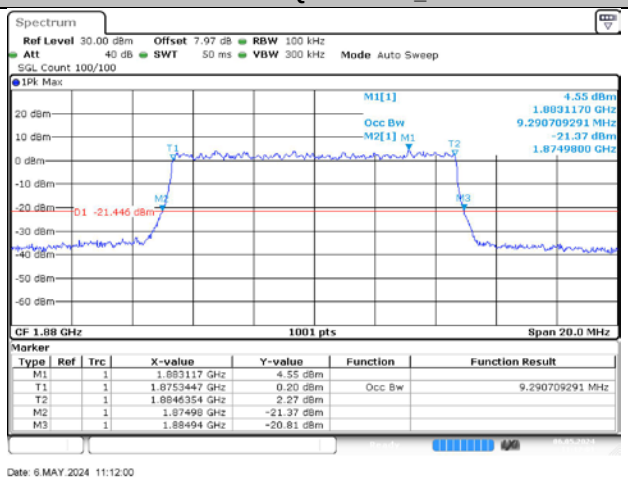
MCH / CP-QPSK / Outer_Full



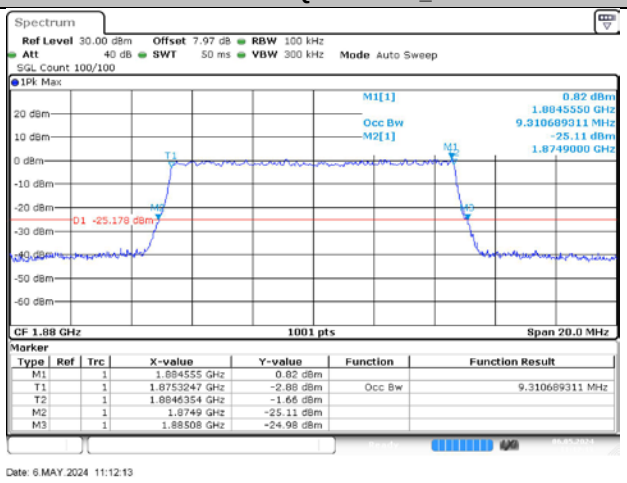
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

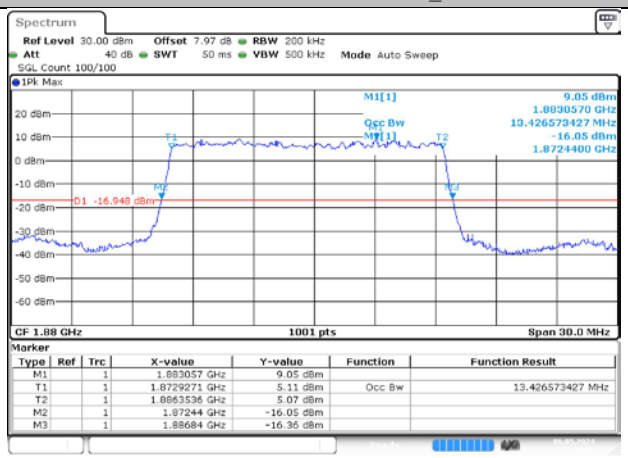


MCH / CP-256QAM / Outer_Full



n2A / 15KHz / 15MHz

MCH / DFT-Pi2BPSK / Outer_Full



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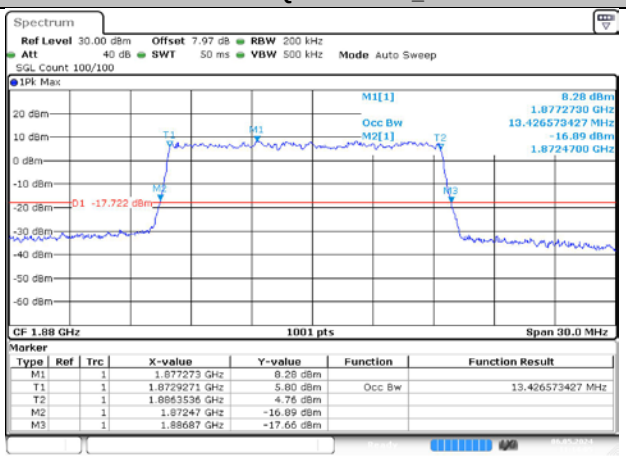
MCH / DFT-QPSK / Outer_Full



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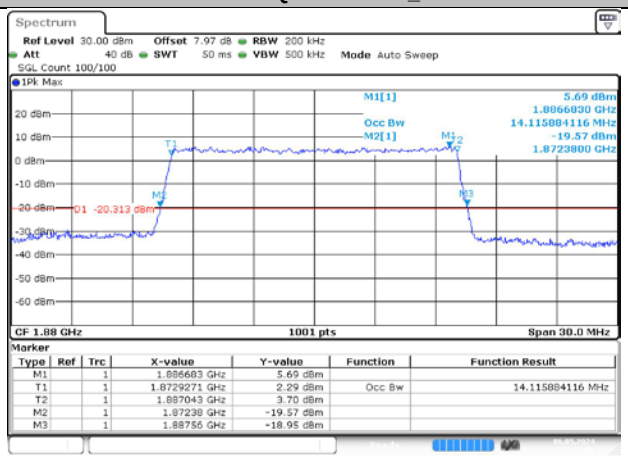
MCH / CP-QPSK / Outer_Full



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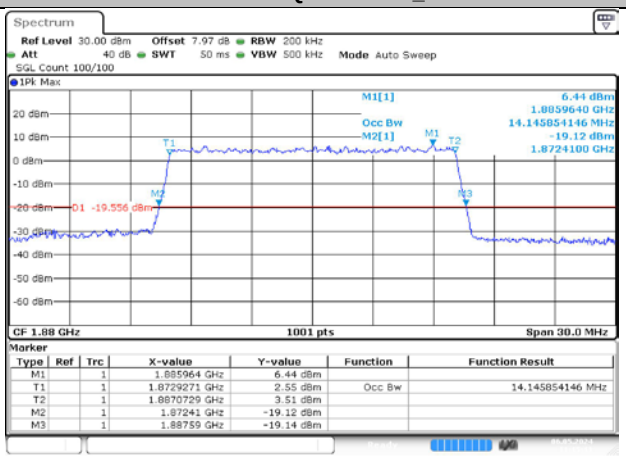

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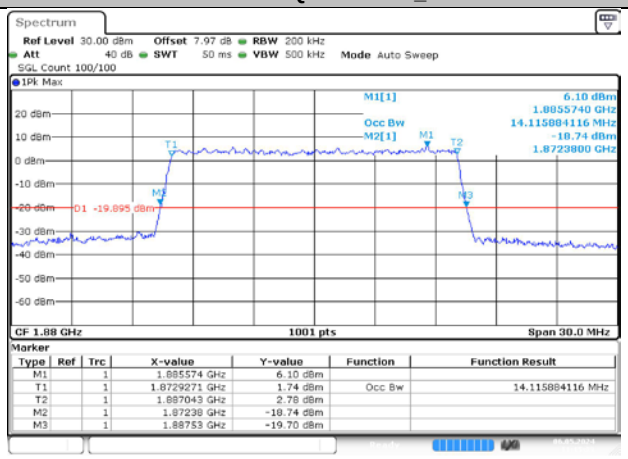
MCH / CP-64QAM / Outer_Full



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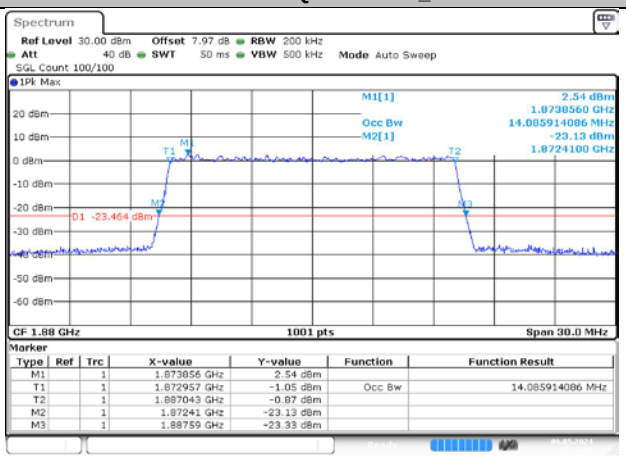
MCH / CP-256QAM / Outer_Full



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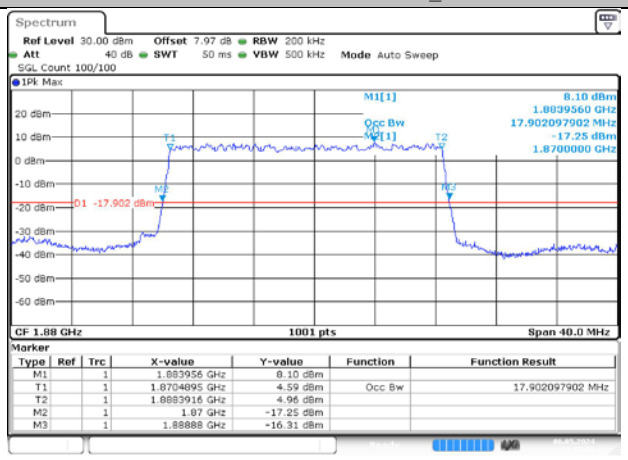
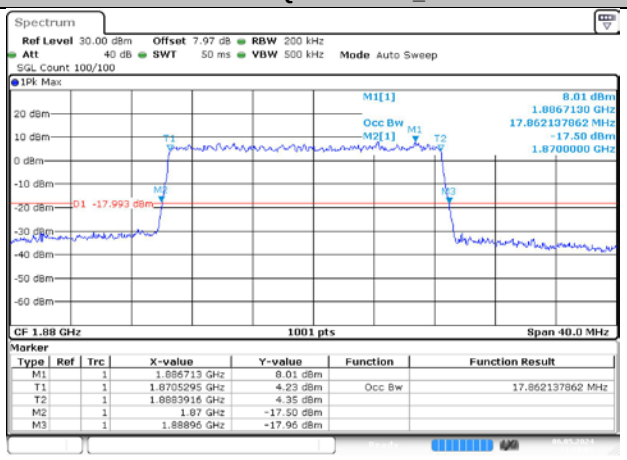
n2A / 15KHz / 20MHz

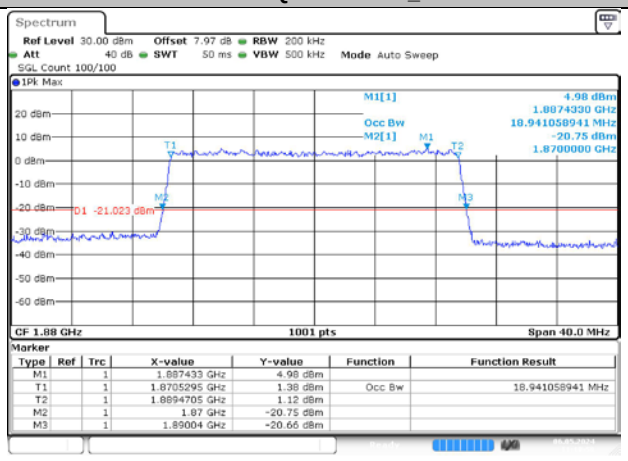
MCH / DFT-Pi2BPSK / Outer_Full



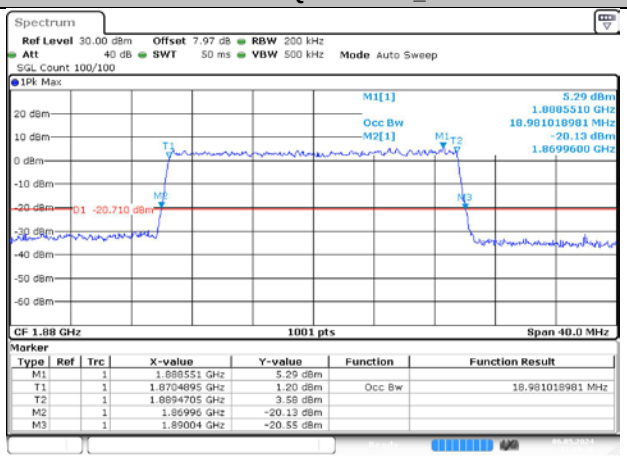
MCH / DFT-QPSK / Outer_Full



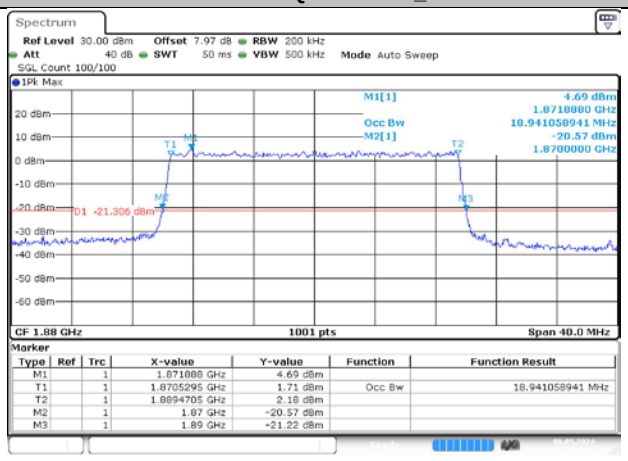
MCH / CP-QPSK / Outer_Full



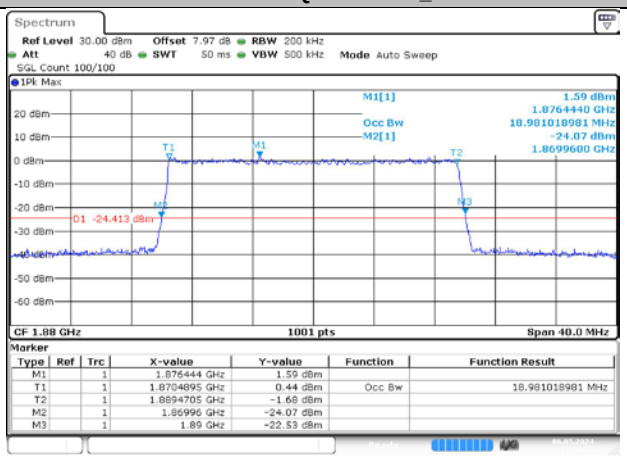
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full



MCH / CP-256QAM / Outer_Full

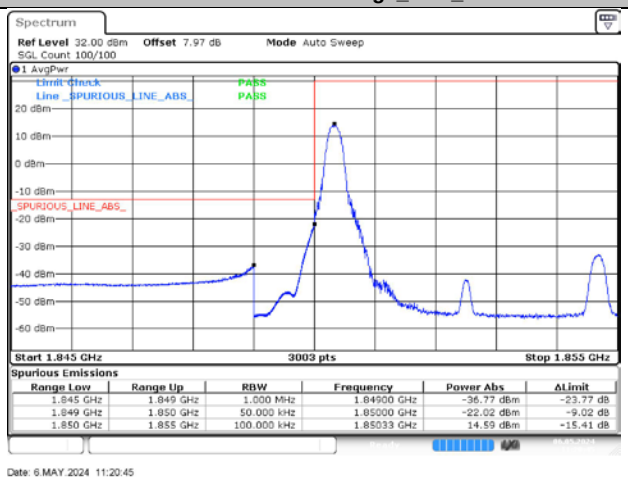


5. Conducted Band Edges

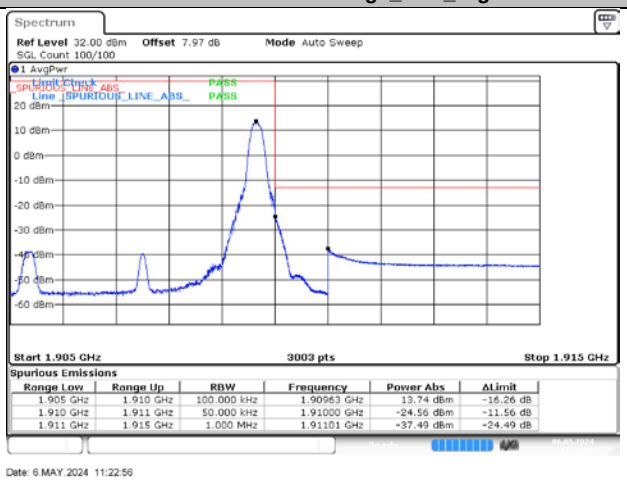
5.1. Test Plots

n2A / 15KHz / 5MHz

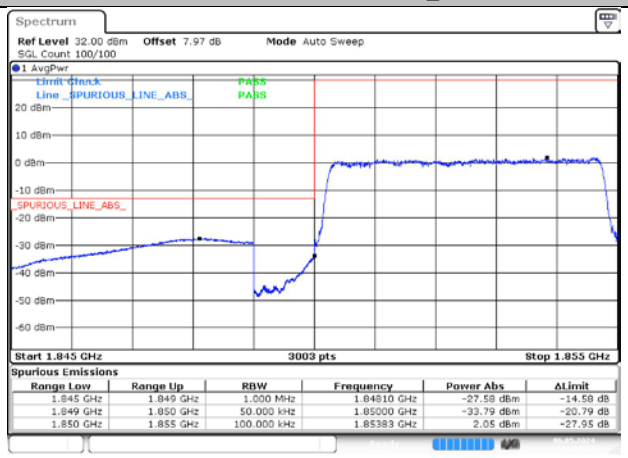
LCH / DFT-Pi2BPSK / Edge_1RB_Left



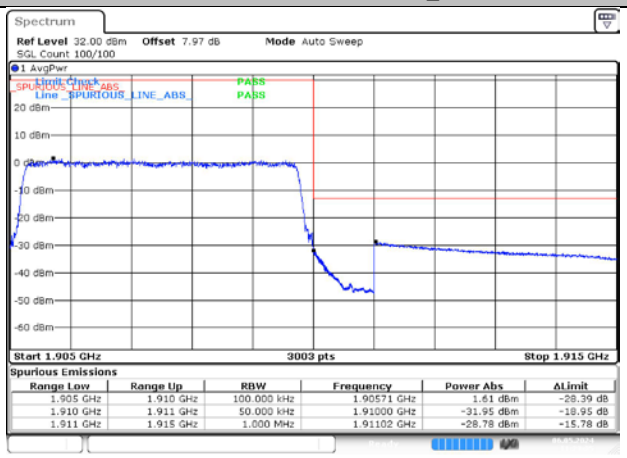
HCH / DFT-Pi2BPSK / Edge_1RB_Right



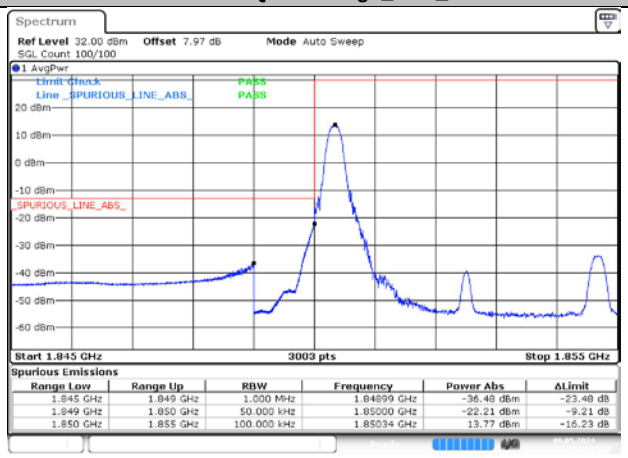
LCH / DFT-Pi2BPSK / Outer_Full



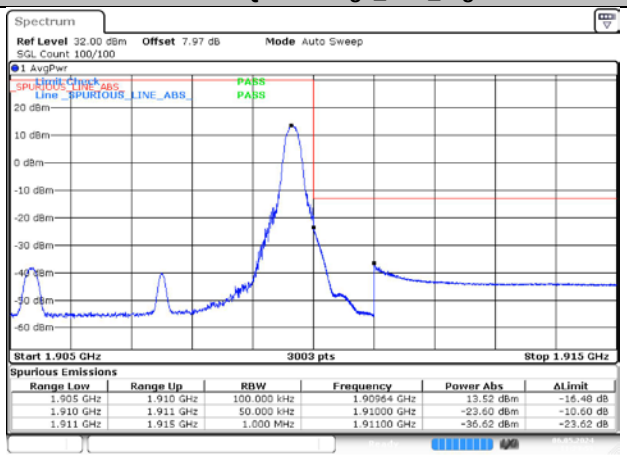
HCH / DFT-Pi2BPSK / Outer_Full



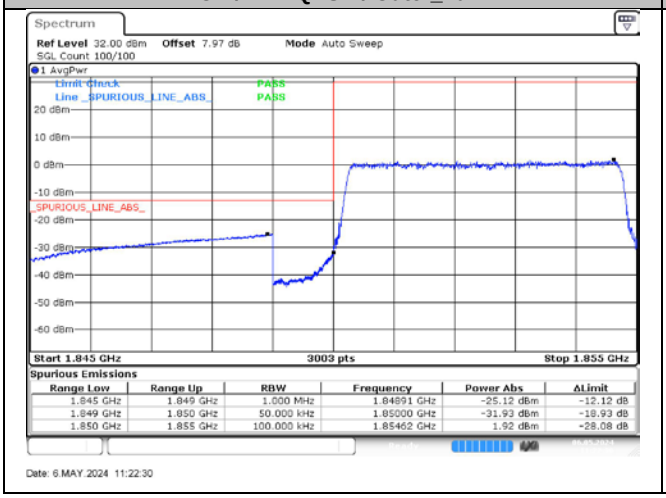
LCH / DFT-QPSK / Edge_1RB_Left



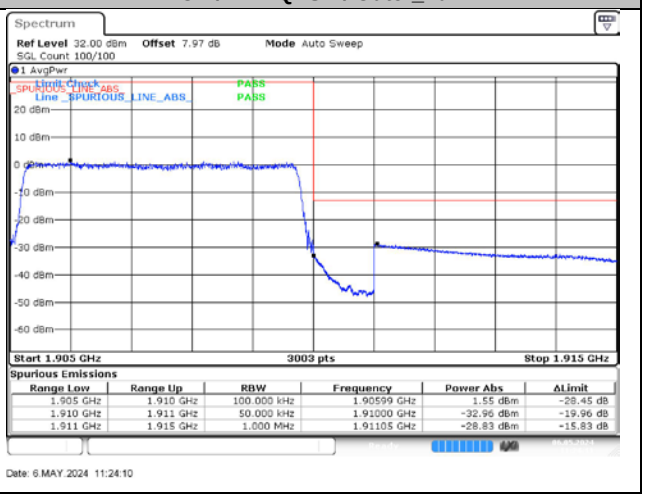
HCH / DFT-QPSK / Edge_1RB_Right



LCH / DFT-QPSK / Outer_Full

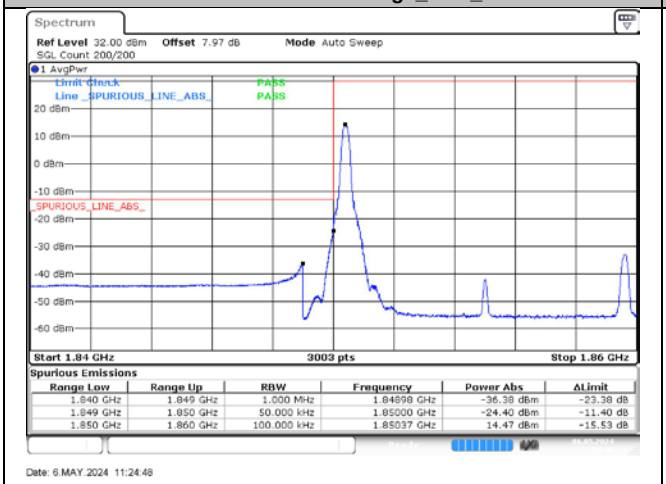


HCH / DFT-QPSK / Outer_Full

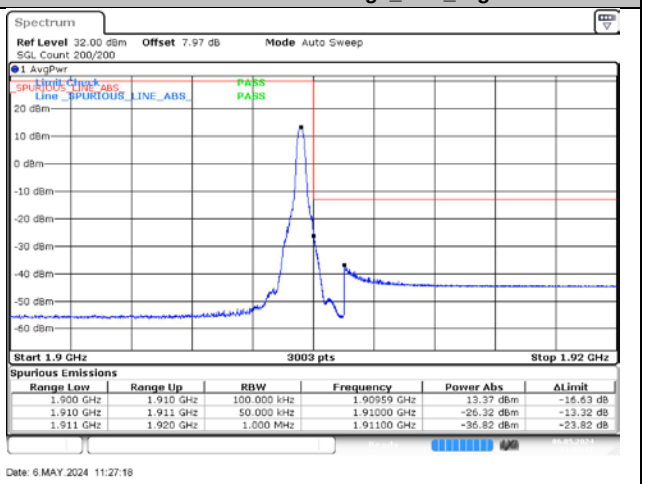


n2A / 15KHz / 10MHz

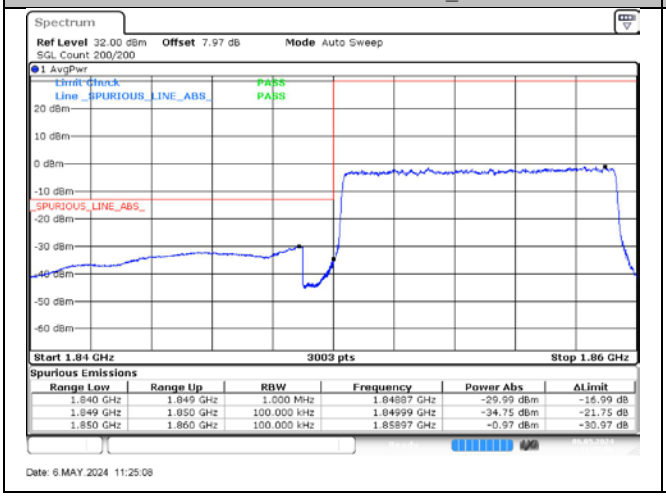
LCH / DFT-Pi2BPSK / Edge_1RB_Left



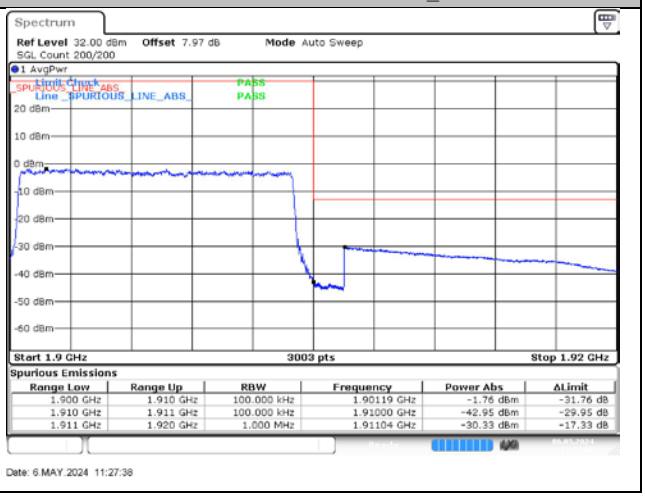
HCH / DFT-Pi2BPSK / Edge_1RB_Right



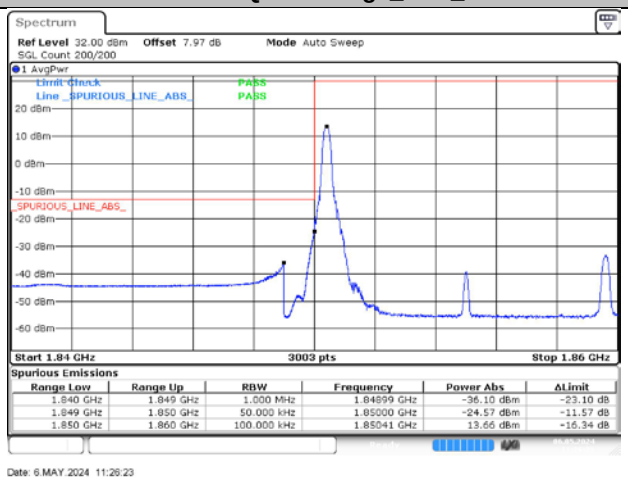
LCH / DFT-Pi2BPSK / Outer_Full



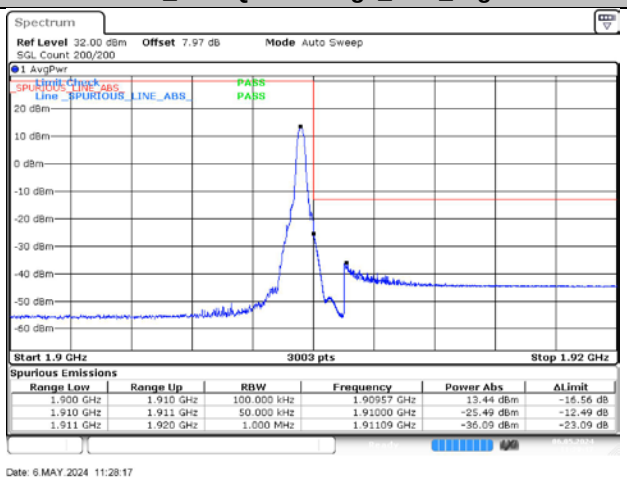
HCH / DFT-Pi2BPSK / Outer_Full



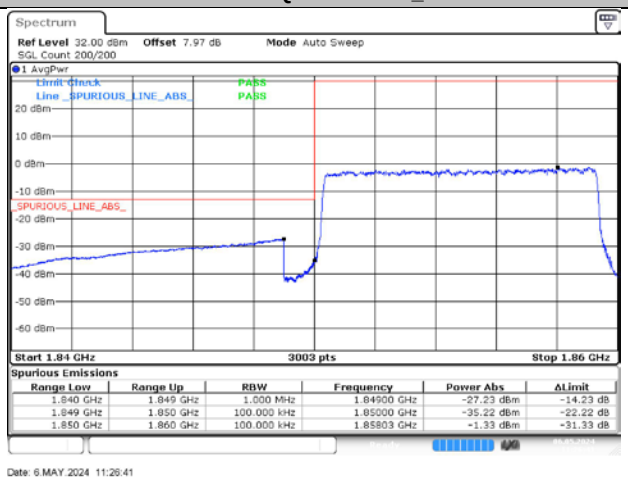
LCH / DFT-QPSK / Edge_1RB_Left



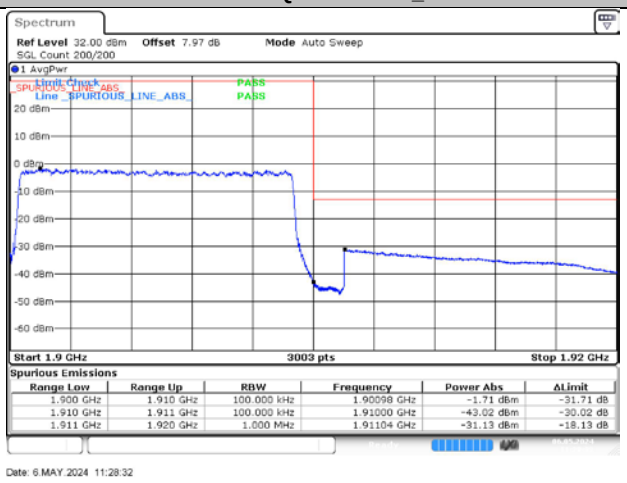
HCH_DFT-QPSK / Edge_1RB_Right



LCH / DFT-QPSK / Outer_Full

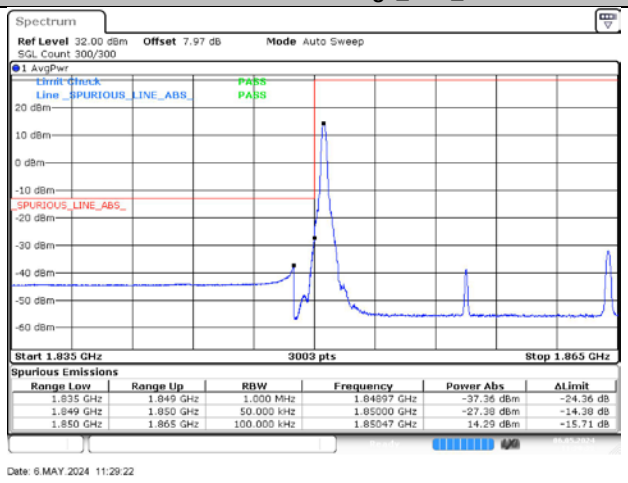


HCH / DFT-QPSK / Outer_Full

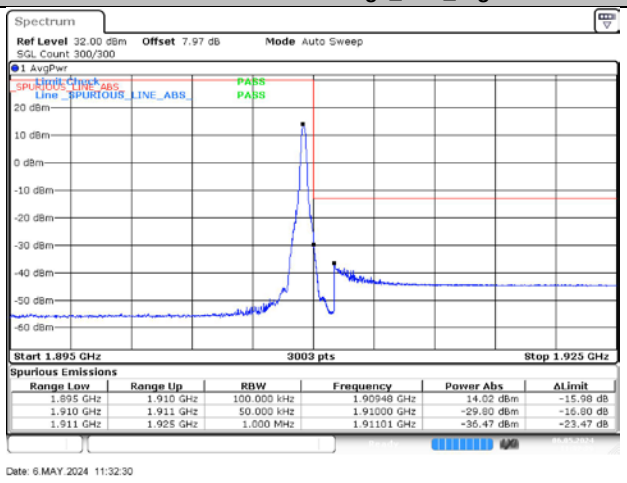


n2A / 15KHz / 15MHz

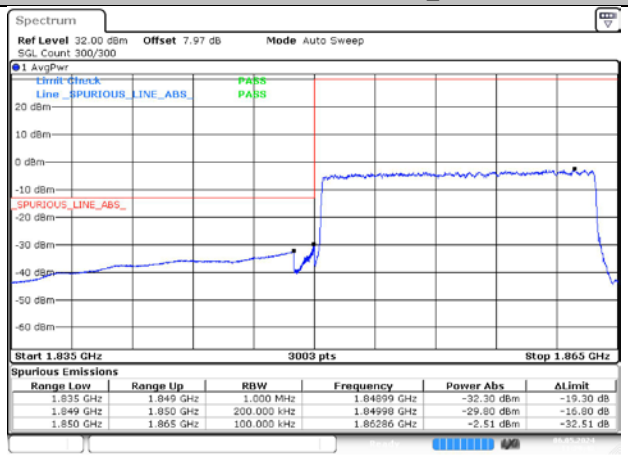
LCH / DFT-Pi2BPSK / Edge_1RB_Left



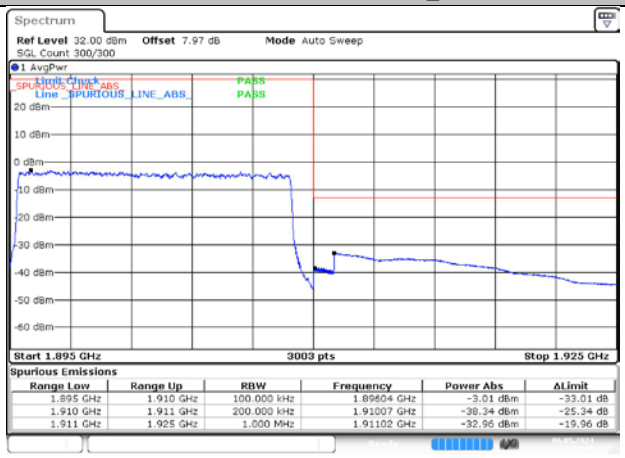
HCH / DFT-Pi2BPSK / Edge_1RB_Right



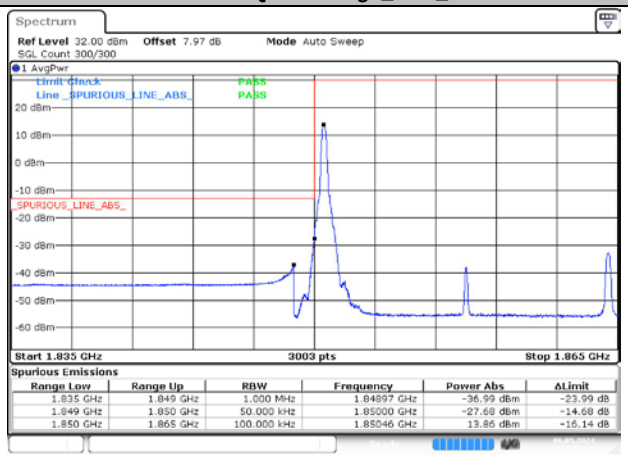
LCH / DFT-Pi2BPSK / Outer_Full



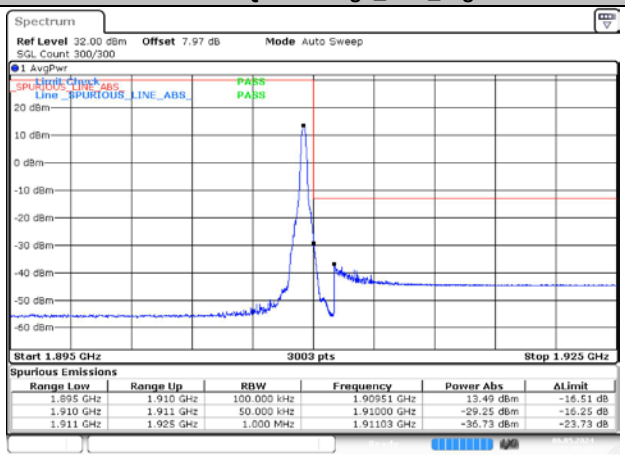
HCH / DFT-Pi2BPSK / Outer_Full



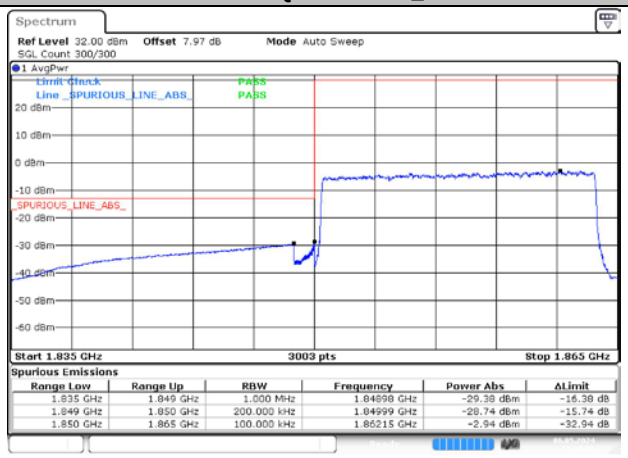
LCH / DFT-QPSK / Edge_1RB_Left



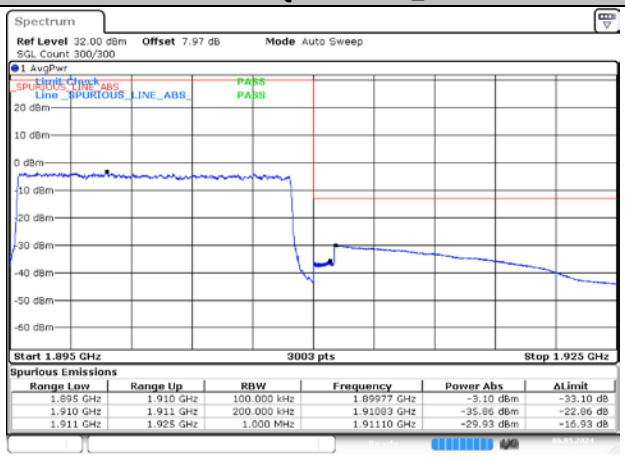
HCH / DFT-QPSK / Edge_1RB_Right



LCH / DFT-QPSK / Outer_Full

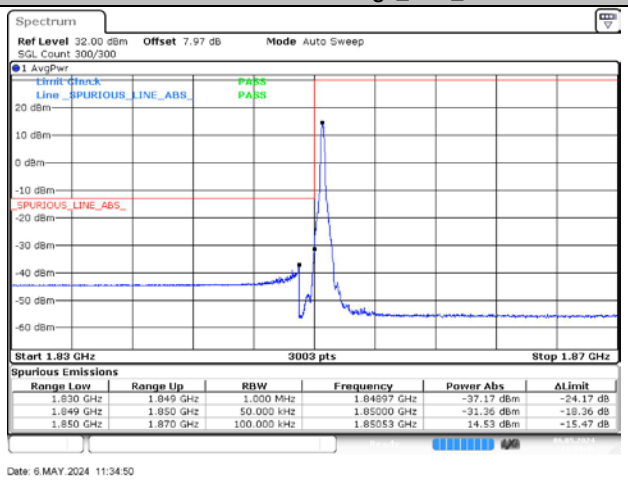


HCH / DFT-QPSK / Outer_Full

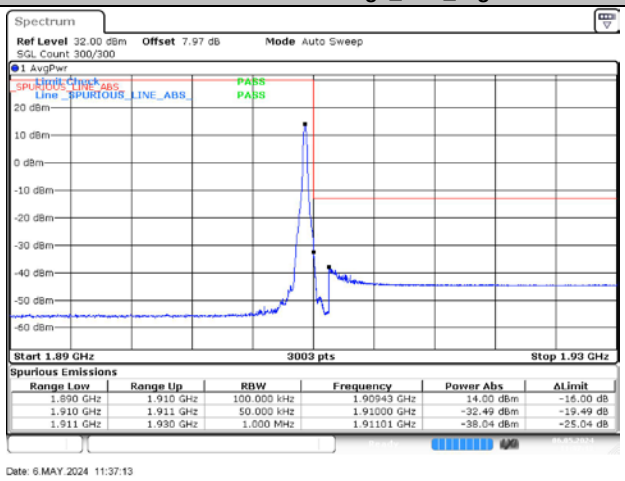


n2A / 15KHz / 20MHz

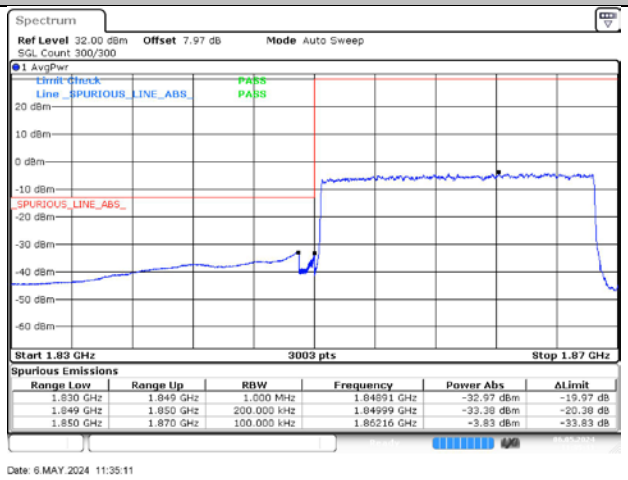
LCH / DFT-Pi2BPSK / Edge_1RB_Left



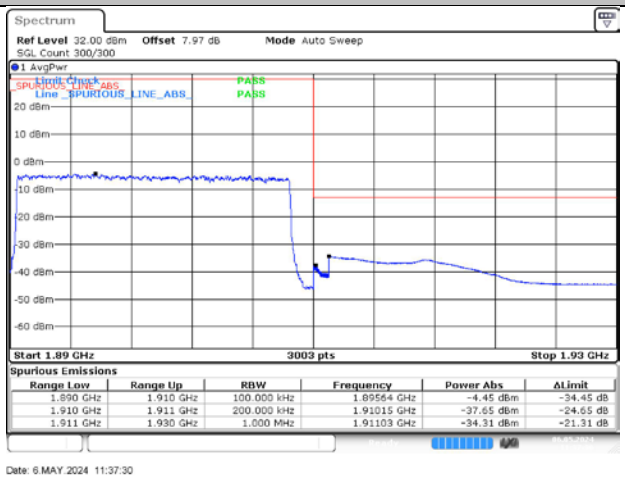
HCH / DFT-Pi2BPSK / Edge_1RB_Right



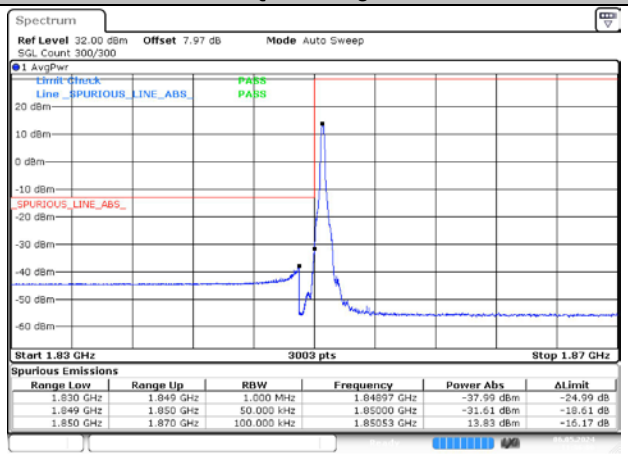
LCH / DFT-Pi2BPSK / Outer_Full



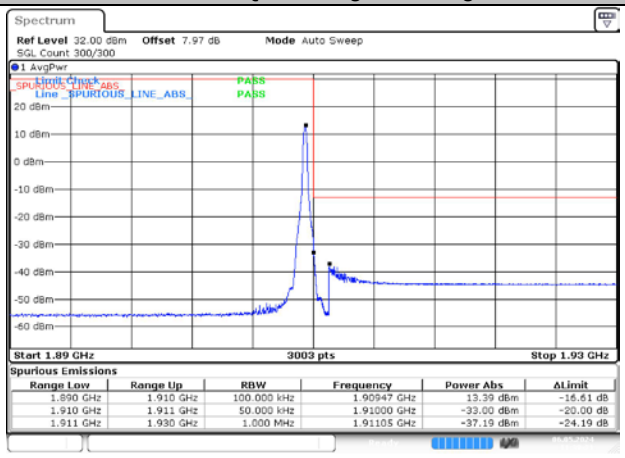
HCH / DFT-Pi2BPSK / Outer_Full



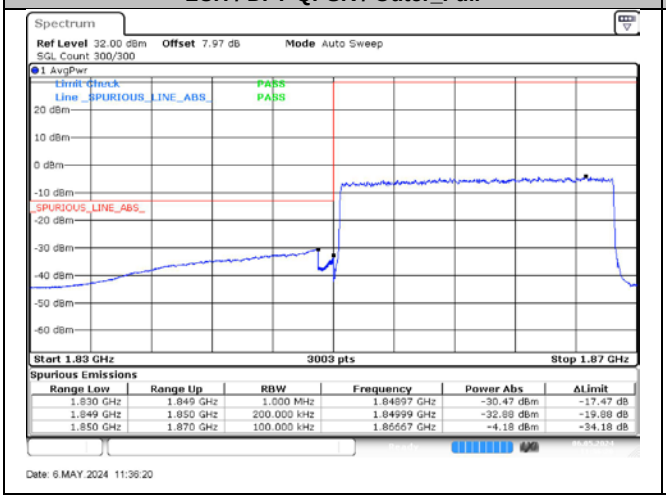
LCH / DFT-QPSK / Edge_1RB_Left



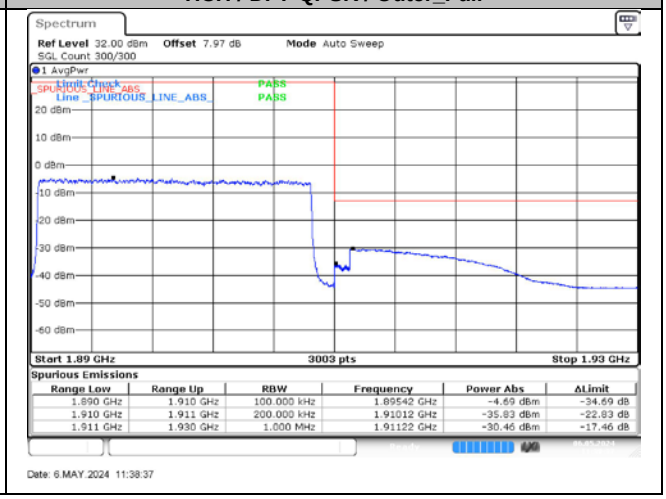
HCH / DFT-QPSK / Edge_1RB_Right



LCH / DFT-QPSK / Outer_Full



HCH / DFT-QPSK / Outer_Full

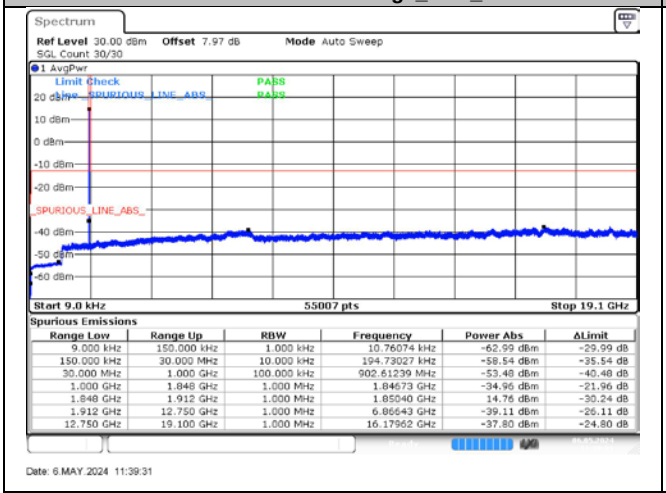


6. Conducted Spurious Emission

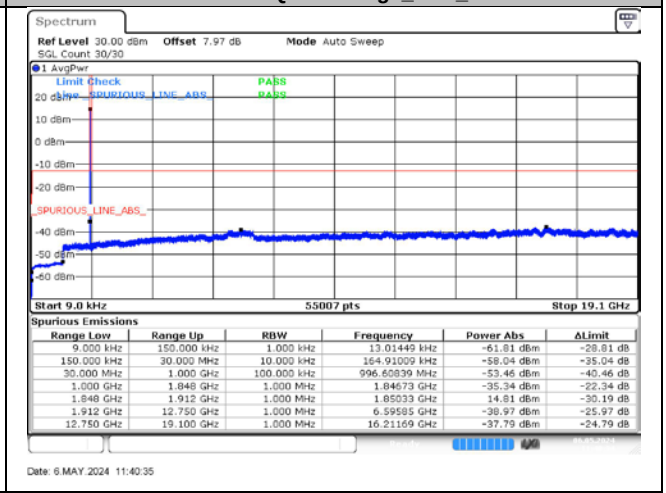
6.1. Test Plots

n2A / 15KHz / 5MHz

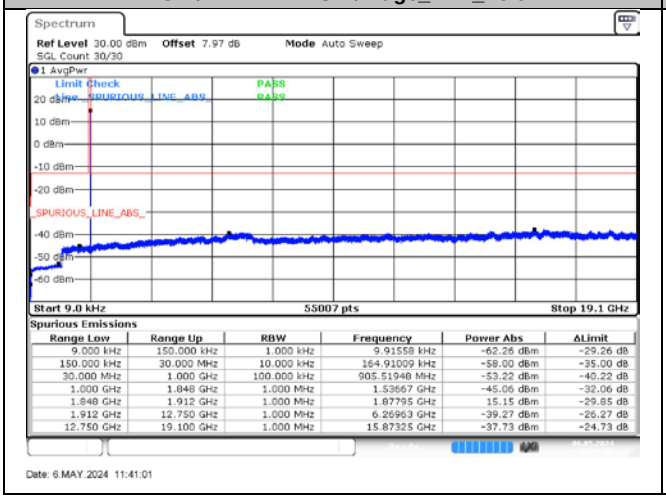
LCH / DFT-Pi2BPSK / Edge_1RB_Left



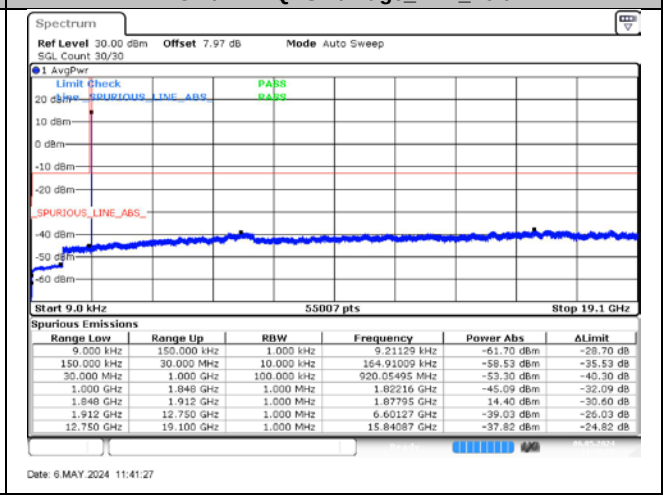
LCH / DFT-QPSK / Edge_1RB_Left



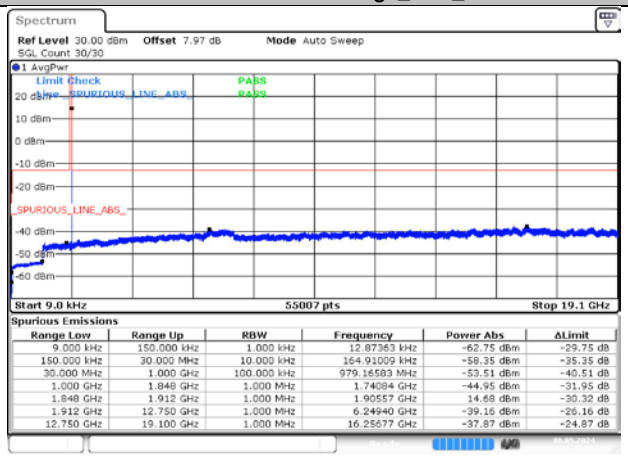
MCH / DFT-Pi2BPSK / Edge_1RB_Left



MCH / DFT-QPSK / Edge_1RB_Left



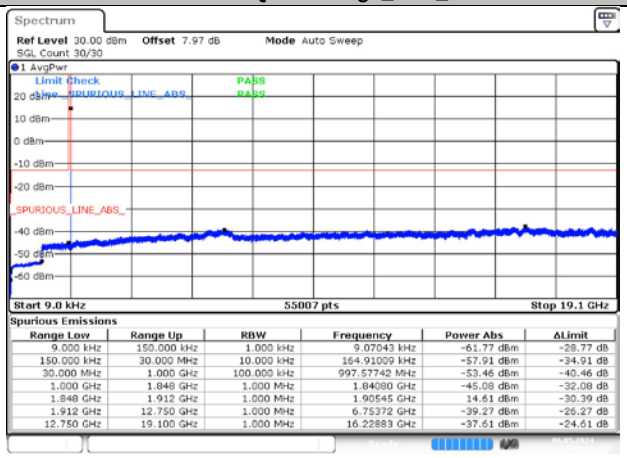
HCH / DFT-Pi2BPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	12.87363 kHz	-62.75 dBm	-29.75 dB
150.000 kHz	30.000 MHz	10.000 kHz	164.91009 kHz	-58.35 dBm	-35.35 dB
30.000 MHz	1.000 GHz	100.000 kHz	979.16583 MHz	-53.51 dBm	-40.51 dB
1.000 GHz	1.848 GHz	1.000 MHz	1.74084 GHz	-44.95 dBm	-31.95 dB
1.848 GHz	1.912 GHz	1.000 MHz	1.90557 GHz	14.68 dBm	-30.32 dB
1.912 GHz	12.750 GHz	1.000 MHz	6.24940 GHz	-39.16 dBm	-26.16 dB
12.750 GHz	19.100 GHz	1.000 MHz	16.25677 GHz	-37.87 dBm	-24.87 dB

HCH / DFT-QPSK / Edge_1RB_Left

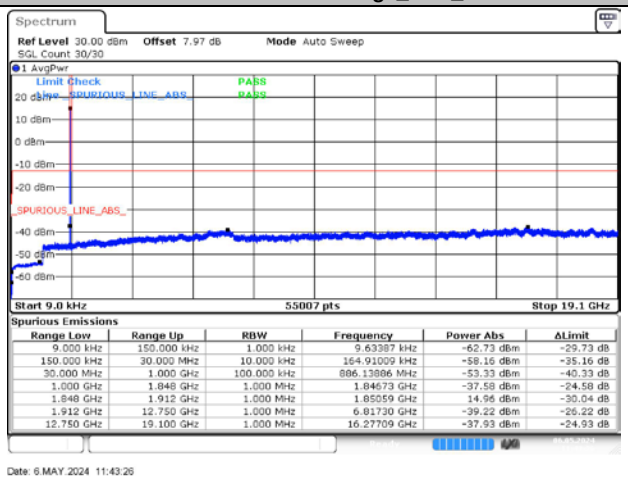


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	9.07043 kHz	-61.77 dBm	-28.77 dB
150.000 kHz	30.000 MHz	10.000 kHz	164.91009 kHz	-57.91 dBm	-34.91 dB
30.000 MHz	1.000 GHz	100.000 kHz	997.57742 MHz	-53.46 dBm	-40.46 dB
1.000 GHz	1.848 GHz	1.000 MHz	1.84080 GHz	-45.08 dBm	-32.08 dB
1.848 GHz	1.912 GHz	1.000 MHz	1.90545 GHz	14.61 dBm	-30.39 dB
1.912 GHz	12.750 GHz	1.000 MHz	6.75372 GHz	-39.27 dBm	-26.27 dB
12.750 GHz	19.100 GHz	1.000 MHz	16.22883 GHz	-37.61 dBm	-24.61 dB

n2A / 15KHz / 10MHz

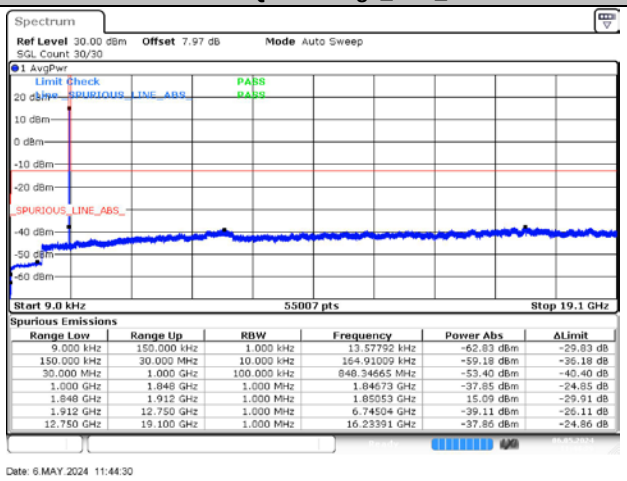
LCH / DFT-Pi2BPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	9.63387 kHz	-62.73 dBm	-29.73 dB
150.000 kHz	30.000 MHz	10.000 kHz	164.91009 kHz	-58.16 dBm	-35.16 dB
30.000 MHz	1.000 GHz	100.000 kHz	886.13886 MHz	-53.33 dBm	-40.33 dB
1.000 GHz	1.848 GHz	1.000 MHz	1.84673 GHz	-37.58 dBm	-24.58 dB
1.848 GHz	1.912 GHz	1.000 MHz	1.85059 GHz	14.96 dBm	-30.04 dB
1.912 GHz	12.750 GHz	1.000 MHz	6.81730 GHz	-39.22 dBm	-26.22 dB
12.750 GHz	19.100 GHz	1.000 MHz	16.27709 GHz	-37.93 dBm	-24.93 dB

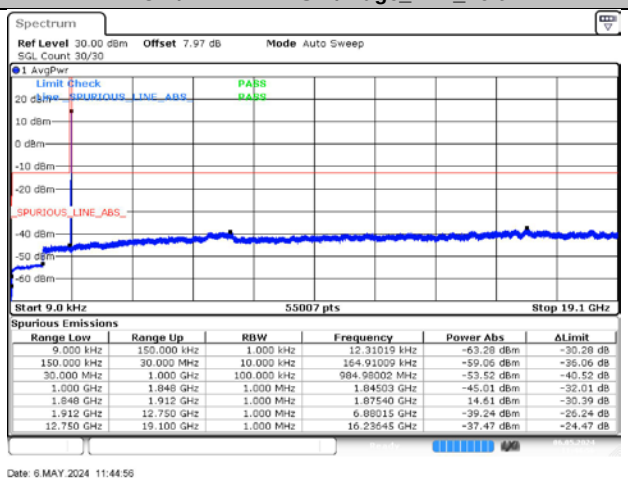
LCH / DFT-QPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	13.57792 kHz	-62.83 dBm	-29.83 dB
150.000 kHz	30.000 MHz	10.000 kHz	164.91009 kHz	-59.18 dBm	-36.18 dB
30.000 MHz	1.000 GHz	100.000 kHz	848.34665 MHz	-53.40 dBm	-40.40 dB
1.000 GHz	1.848 GHz	1.000 MHz	1.84673 GHz	-37.85 dBm	-24.85 dB
1.848 GHz	1.912 GHz	1.000 MHz	1.85053 GHz	15.09 dBm	-29.91 dB
1.912 GHz	12.750 GHz	1.000 MHz	6.74504 GHz	-39.11 dBm	-26.11 dB
12.750 GHz	19.100 GHz	1.000 MHz	16.23391 GHz	-37.86 dBm	-24.86 dB

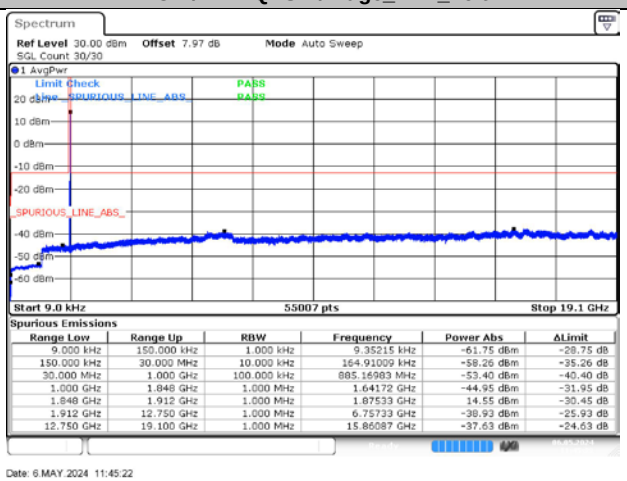
MCH / DFT-Pi2BPSK / Edge_1RB_Left



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	12.31019 kHz	-63.28 dBm	-30.28 dB
150.000 kHz	30.000 MHz	10.000 kHz	164.91009 kHz	-59.06 dBm	-36.06 dB
30.000 MHz	1.000 GHz	100.000 kHz	984.98002 MHz	-53.52 dBm	-40.52 dB
1.000 GHz	1.848 GHz	1.000 MHz	1.84503 GHz	-45.01 dBm	-32.01 dB
1.848 GHz	1.912 GHz	1.000 MHz	1.87540 GHz	14.61 dBm	-30.39 dB
1.912 GHz	12.750 GHz	1.000 MHz	6.88015 GHz	-39.24 dBm	-26.24 dB
12.750 GHz	19.100 GHz	1.000 MHz	16.23645 GHz	-37.47 dBm	-24.47 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	9.35215 kHz	-61.75 dBm	-28.75 dB
150.000 kHz	30.000 MHz	10.000 kHz	164.91009 kHz	-58.26 dBm	-35.26 dB
30.000 MHz	1.000 GHz	100.000 kHz	885.16983 MHz	-53.40 dBm	-40.40 dB
1.000 GHz	1.848 GHz	1.000 MHz	1.64172 GHz	-44.95 dBm	-31.95 dB
1.848 GHz	1.912 GHz	1.000 MHz	1.87533 GHz	14.55 dBm	-30.45 dB
1.912 GHz	12.750 GHz	1.000 MHz	6.75733 GHz	-38.93 dBm	-25.93 dB
12.750 GHz	19.100 GHz	1.000 MHz	15.86087 GHz	-37.63 dBm	-24.63 dB