

**Appendix
for
n5A
(824-849)**

Catalogue

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1. Effective Radiated Power

1.1. Test Results @ Ant0 (Antenna Gain=-3.82dBi)

SCS	Bandwidth	Channel	Modulation	Conducted Result (dBm)			Max ERP (dBm)	Limit (dBm)	Verdict
				Inner_1RB_Left	Inner_1RB_Right	Inner_Full			
15KHz	5MHz	LCH	DFT-Pi2BPSK	22.92	22.91	22.71	16.95	38.45	Pass
15KHz	5MHz	LCH	DFT-QPSK	22.96	23.00	22.73	17.03	38.45	Pass
15KHz	5MHz	LCH	DFT-16QAM	21.91	21.82	21.79	15.94	38.45	Pass
15KHz	5MHz	LCH	DFT-64QAM	20.70	20.76	20.31	14.79	38.45	Pass
15KHz	5MHz	LCH	DFT-256QAM	18.78	18.80	18.27	12.83	38.45	Pass
15KHz	5MHz	LCH	CP-QPSK	20.87	21.01	21.32	15.35	38.45	Pass
15KHz	5MHz	MCH	DFT-Pi2BPSK	22.79	22.83	22.77	16.86	38.45	Pass
15KHz	5MHz	MCH	DFT-QPSK	22.78	22.86	22.76	16.89	38.45	Pass
15KHz	5MHz	MCH	DFT-16QAM	21.93	22.00	21.67	16.03	38.45	Pass
15KHz	5MHz	MCH	DFT-64QAM	20.55	20.54	20.45	14.58	38.45	Pass
15KHz	5MHz	MCH	DFT-256QAM	19.07	19.07	18.40	13.10	38.45	Pass
15KHz	5MHz	MCH	CP-QPSK	20.89	21.04	21.34	15.37	38.45	Pass
15KHz	5MHz	HCH	DFT-Pi2BPSK	22.83	22.93	22.96	16.99	38.45	Pass
15KHz	5MHz	HCH	DFT-QPSK	22.99	23.10	22.97	17.13	38.45	Pass
15KHz	5MHz	HCH	DFT-16QAM	22.46	22.59	21.92	16.62	38.45	Pass
15KHz	5MHz	HCH	DFT-64QAM	20.43	20.57	20.53	14.60	38.45	Pass
15KHz	5MHz	HCH	DFT-256QAM	19.08	19.20	18.57	13.23	38.45	Pass
15KHz	5MHz	HCH	CP-QPSK	21.25	21.39	21.53	15.56	38.45	Pass
15KHz	10MHz	LCH	DFT-Pi2BPSK	22.66	22.68	22.73	16.76	38.45	Pass
15KHz	10MHz	LCH	DFT-QPSK	23.01	23.08	22.73	17.11	38.45	Pass
15KHz	10MHz	LCH	DFT-16QAM	21.76	21.68	21.72	15.79	38.45	Pass
15KHz	10MHz	LCH	DFT-64QAM	19.72	19.81	20.45	14.48	38.45	Pass
15KHz	10MHz	LCH	DFT-256QAM	18.51	18.59	18.41	12.62	38.45	Pass
15KHz	10MHz	LCH	CP-QPSK	21.09	21.06	21.25	15.28	38.45	Pass
15KHz	10MHz	MCH	DFT-Pi2BPSK	23.14	23.24	22.74	17.27	38.45	Pass
15KHz	10MHz	MCH	DFT-QPSK	23.19	23.24	22.77	17.27	38.45	Pass
15KHz	10MHz	MCH	DFT-16QAM	22.07	22.10	21.77	16.13	38.45	Pass
15KHz	10MHz	MCH	DFT-64QAM	20.55	20.56	20.42	14.59	38.45	Pass
15KHz	10MHz	MCH	DFT-256QAM	18.52	18.55	18.38	12.58	38.45	Pass
15KHz	10MHz	MCH	CP-QPSK	21.48	21.50	21.38	15.53	38.45	Pass
15KHz	10MHz	HCH	DFT-Pi2BPSK	22.91	23.05	22.85	17.08	38.45	Pass
15KHz	10MHz	HCH	DFT-QPSK	23.00	23.14	22.83	17.17	38.45	Pass
15KHz	10MHz	HCH	DFT-16QAM	21.65	21.80	22.05	16.08	38.45	Pass
15KHz	10MHz	HCH	DFT-64QAM	20.46	20.72	20.35	14.75	38.45	Pass
15KHz	10MHz	HCH	DFT-256QAM	18.49	18.69	18.44	12.72	38.45	Pass
15KHz	10MHz	HCH	CP-QPSK	21.59	21.75	21.38	15.78	38.45	Pass
15KHz	15MHz	LCH	DFT-Pi2BPSK	22.96	23.12	22.81	17.15	38.45	Pass
15KHz	15MHz	LCH	DFT-QPSK	22.92	23.05	22.82	17.08	38.45	Pass
15KHz	15MHz	LCH	DFT-16QAM	21.66	21.76	21.83	15.86	38.45	Pass
15KHz	15MHz	LCH	DFT-64QAM	20.98	21.07	20.42	15.10	38.45	Pass
15KHz	15MHz	LCH	DFT-256QAM	18.64	18.71	18.38	12.74	38.45	Pass
15KHz	15MHz	LCH	CP-QPSK	21.25	21.69	21.15	15.72	38.45	Pass
15KHz	15MHz	MCH	DFT-Pi2BPSK	22.91	23.07	22.75	17.10	38.45	Pass
15KHz	15MHz	MCH	DFT-QPSK	22.72	22.82	22.79	16.85	38.45	Pass
15KHz	15MHz	MCH	DFT-16QAM	22.27	22.42	21.82	16.45	38.45	Pass
15KHz	15MHz	MCH	DFT-64QAM	20.72	20.83	20.30	14.86	38.45	Pass
15KHz	15MHz	MCH	DFT-256QAM	18.89	19.03	18.43	13.06	38.45	Pass
15KHz	15MHz	MCH	CP-QPSK	21.32	21.57	21.25	15.60	38.45	Pass
15KHz	15MHz	HCH	DFT-Pi2BPSK	22.79	23.02	22.82	17.05	38.45	Pass
15KHz	15MHz	HCH	DFT-QPSK	22.65	22.86	22.88	16.91	38.45	Pass
15KHz	15MHz	HCH	DFT-16QAM	22.35	22.59	21.92	16.62	38.45	Pass
15KHz	15MHz	HCH	DFT-64QAM	20.55	20.76	20.37	14.79	38.45	Pass
15KHz	15MHz	HCH	DFT-256QAM	18.78	19.00	18.38	13.03	38.45	Pass
15KHz	15MHz	HCH	CP-QPSK	21.73	21.88	21.24	15.91	38.45	Pass
15KHz	20MHz	LCH	DFT-Pi2BPSK	22.69	22.82	22.78	16.85	38.45	Pass
15KHz	20MHz	LCH	DFT-QPSK	22.85	22.98	22.81	17.01	38.45	Pass
15KHz	20MHz	LCH	DFT-16QAM	22.24	22.37	21.74	16.40	38.45	Pass
15KHz	20MHz	LCH	DFT-64QAM	19.61	19.75	20.30	14.33	38.45	Pass

15KHz	20MHz	LCH	DFT-256QAM	18.35	18.47	18.37	12.50	38.45	Pass
15KHz	20MHz	LCH	CP-QPSK	21.14	21.29	21.34	15.37	38.45	Pass
15KHz	20MHz	MCH	DFT-Pi2BPSK	22.80	23.04	22.83	17.07	38.45	Pass
15KHz	20MHz	MCH	DFT-QPSK	22.53	22.81	22.84	16.87	38.45	Pass
15KHz	20MHz	MCH	DFT-16QAM	21.93	22.17	21.80	16.20	38.45	Pass
15KHz	20MHz	MCH	DFT-64QAM	20.60	20.79	20.50	14.82	38.45	Pass
15KHz	20MHz	MCH	DFT-256QAM	18.53	18.76	18.34	12.79	38.45	Pass
15KHz	20MHz	MCH	CP-QPSK	21.09	21.35	21.31	15.38	38.45	Pass
15KHz	20MHz	HCH	DFT-Pi2BPSK	22.60	22.83	22.86	16.89	38.45	Pass
15KHz	20MHz	HCH	DFT-QPSK	23.01	23.22	22.86	17.25	38.45	Pass
15KHz	20MHz	HCH	DFT-16QAM	21.98	22.25	21.85	16.28	38.45	Pass
15KHz	20MHz	HCH	DFT-64QAM	20.62	20.84	20.37	14.87	38.45	Pass
15KHz	20MHz	HCH	DFT-256QAM	18.52	18.76	18.44	12.79	38.45	Pass
15KHz	20MHz	HCH	CP-QPSK	21.25	21.55	21.33	15.58	38.45	Pass
30KHz	10MHz	LCH	DFT-Pi2BPSK	22.76	22.84	22.84	16.87	38.45	Pass
30KHz	10MHz	LCH	DFT-QPSK	23.04	23.07	22.76	17.10	38.45	Pass
30KHz	10MHz	LCH	DFT-16QAM	21.90	21.87	21.85	15.93	38.45	Pass
30KHz	10MHz	LCH	DFT-64QAM	20.36	20.45	20.34	14.48	38.45	Pass
30KHz	10MHz	LCH	DFT-256QAM	18.26	18.32	18.12	12.35	38.45	Pass
30KHz	10MHz	LCH	CP-QPSK	21.00	21.13	21.37	15.40	38.45	Pass
30KHz	10MHz	MCH	DFT-Pi2BPSK	22.74	22.89	22.78	16.92	38.45	Pass
30KHz	10MHz	MCH	DFT-QPSK	22.89	22.96	22.80	16.99	38.45	Pass
30KHz	10MHz	MCH	DFT-16QAM	22.15	22.22	21.86	16.25	38.45	Pass
30KHz	10MHz	MCH	DFT-64QAM	20.06	20.07	20.45	14.48	38.45	Pass
30KHz	10MHz	MCH	DFT-256QAM	18.37	18.38	18.36	12.41	38.45	Pass
30KHz	10MHz	MCH	CP-QPSK	21.19	21.25	21.18	15.28	38.45	Pass
30KHz	10MHz	HCH	DFT-Pi2BPSK	22.22	23.09	22.94	17.12	38.45	Pass
30KHz	10MHz	HCH	DFT-QPSK	23.17	23.28	22.87	17.31	38.45	Pass
30KHz	10MHz	HCH	DFT-16QAM	21.96	22.11	21.82	16.14	38.45	Pass
30KHz	10MHz	HCH	DFT-64QAM	20.32	20.54	20.56	14.59	38.45	Pass
30KHz	10MHz	HCH	DFT-256QAM	18.41	18.55	18.24	12.58	38.45	Pass
30KHz	10MHz	HCH	CP-QPSK	21.17	21.35	21.18	15.38	38.45	Pass
30KHz	15MHz	LCH	DFT-Pi2BPSK	22.94	23.13	22.71	17.16	38.45	Pass
30KHz	15MHz	LCH	DFT-QPSK	22.74	22.89	22.89	16.92	38.45	Pass
30KHz	15MHz	LCH	DFT-16QAM	21.74	21.78	21.88	15.91	38.45	Pass
30KHz	15MHz	LCH	DFT-64QAM	20.56	20.69	20.45	14.72	38.45	Pass
30KHz	15MHz	LCH	DFT-256QAM	18.55	18.63	18.46	12.66	38.45	Pass
30KHz	15MHz	LCH	CP-QPSK	20.97	21.36	21.37	15.40	38.45	Pass
30KHz	15MHz	MCH	DFT-Pi2BPSK	22.89	22.95	22.80	16.98	38.45	Pass
30KHz	15MHz	MCH	DFT-QPSK	23.11	23.16	22.78	17.19	38.45	Pass
30KHz	15MHz	MCH	DFT-16QAM	21.78	21.89	21.86	15.92	38.45	Pass
30KHz	15MHz	MCH	DFT-64QAM	20.89	20.94	20.41	14.97	38.45	Pass
30KHz	15MHz	MCH	DFT-256QAM	18.94	19.05	18.43	13.08	38.45	Pass
30KHz	15MHz	MCH	CP-QPSK	21.21	21.15	21.34	15.37	38.45	Pass
30KHz	15MHz	HCH	DFT-Pi2BPSK	22.98	23.15	22.77	17.18	38.45	Pass
30KHz	15MHz	HCH	DFT-QPSK	22.88	23.10	22.84	17.13	38.45	Pass
30KHz	15MHz	HCH	DFT-16QAM	21.93	22.18	22.02	16.21	38.45	Pass
30KHz	15MHz	HCH	DFT-64QAM	20.62	20.83	20.40	14.86	38.45	Pass
30KHz	15MHz	HCH	DFT-256QAM	19.05	19.21	18.54	13.24	38.45	Pass
30KHz	15MHz	HCH	CP-QPSK	21.47	21.62	21.50	15.65	38.45	Pass
30KHz	20MHz	LCH	DFT-Pi2BPSK	22.82	23.05	22.82	17.08	38.45	Pass
30KHz	20MHz	LCH	DFT-QPSK	22.79	22.96	22.86	16.99	38.45	Pass
30KHz	20MHz	LCH	DFT-16QAM	22.07	22.25	21.93	16.28	38.45	Pass
30KHz	20MHz	LCH	DFT-64QAM	20.48	20.62	20.23	14.65	38.45	Pass
30KHz	20MHz	LCH	DFT-256QAM	18.47	18.64	18.35	12.67	38.45	Pass
30KHz	20MHz	LCH	CP-QPSK	21.42	21.50	21.32	15.53	38.45	Pass
30KHz	20MHz	MCH	DFT-Pi2BPSK	22.27	23.08	22.83	17.11	38.45	Pass
30KHz	20MHz	MCH	DFT-QPSK	22.65	22.94	22.88	16.97	38.45	Pass
30KHz	20MHz	MCH	DFT-16QAM	22.12	22.32	21.91	16.35	38.45	Pass
30KHz	20MHz	MCH	DFT-64QAM	19.82	19.99	20.35	14.38	38.45	Pass
30KHz	20MHz	MCH	DFT-256QAM	18.51	18.66	18.40	12.69	38.45	Pass
30KHz	20MHz	MCH	CP-QPSK	21.21	21.56	21.31	15.59	38.45	Pass

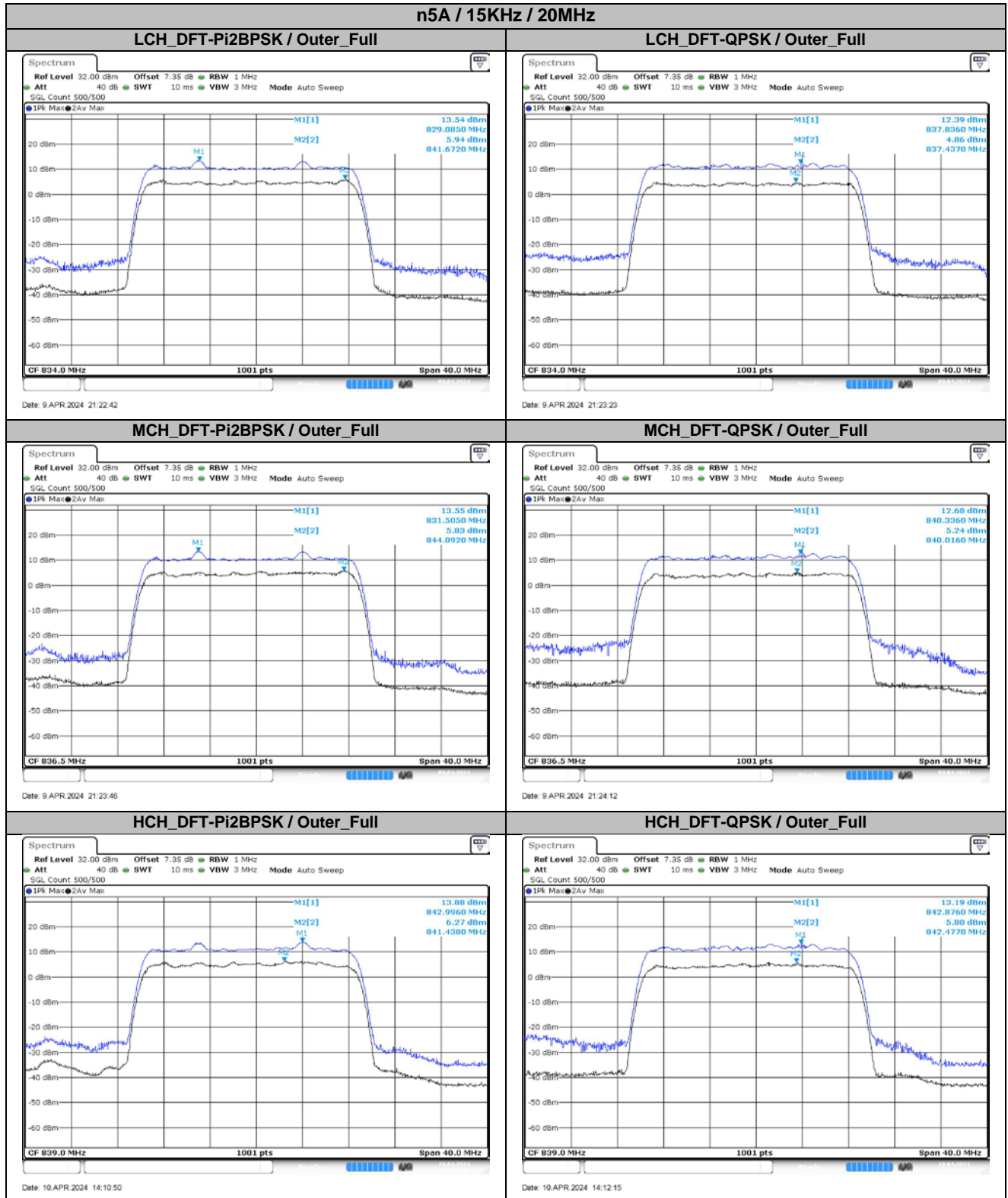
30KHz	20MHz	HCH	DFT-Pi2BPSK	22.96	23.19	22.83	17.22	38.45	Pass
30KHz	20MHz	HCH	DFT-QPSK	22.96	23.08	22.88	17.11	38.45	Pass
30KHz	20MHz	HCH	DFT-16QAM	21.87	22.10	22.01	16.13	38.45	Pass
30KHz	20MHz	HCH	DFT-64QAM	20.52	20.78	20.41	14.81	38.45	Pass
30KHz	20MHz	HCH	DFT-256QAM	18.46	18.68	18.42	12.71	38.45	Pass
30KHz	20MHz	HCH	CP-QPSK	21.42	21.56	21.38	15.59	38.45	Pass

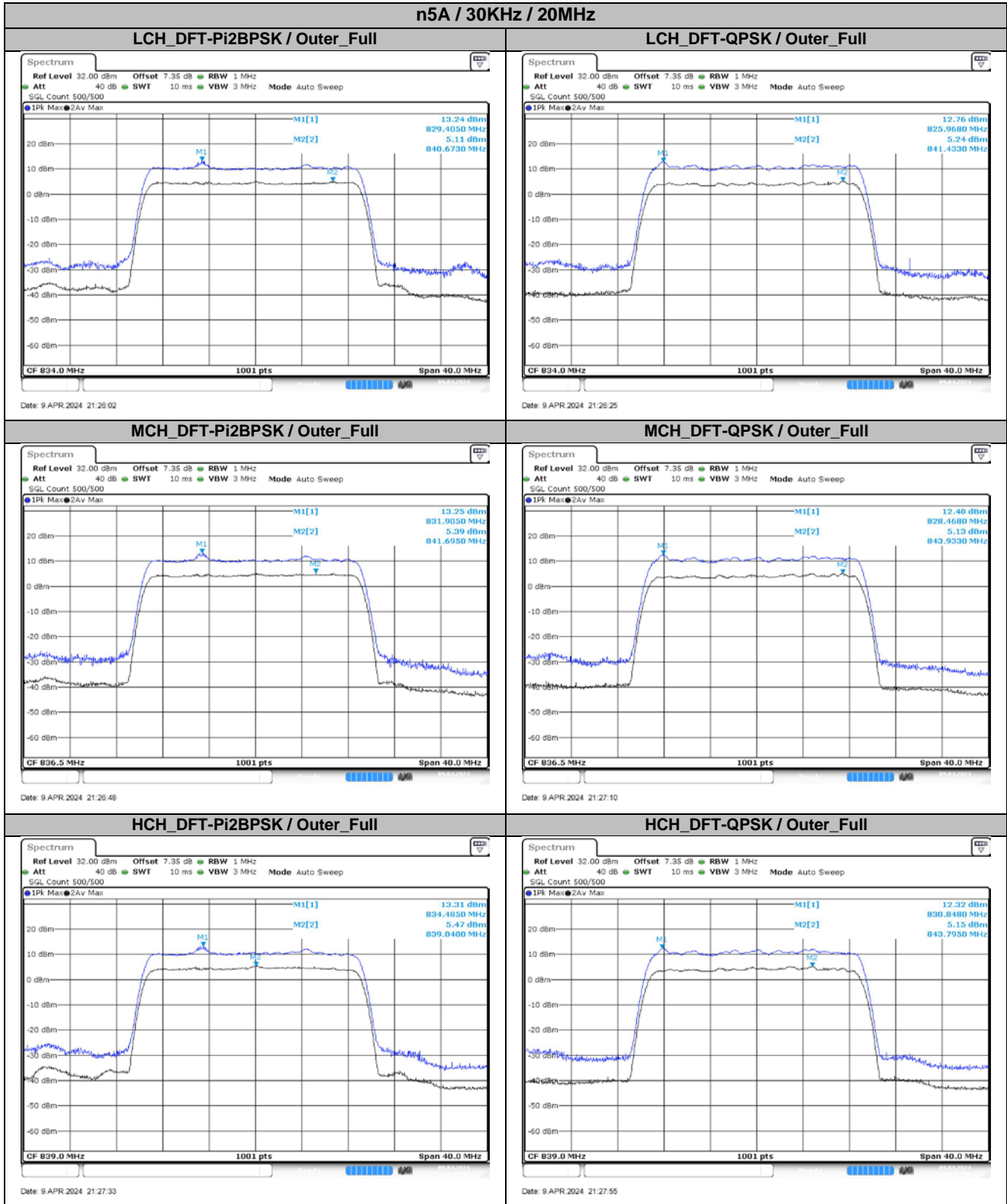
2. Peak-to-Average Ratio

2.1. Test Results

Channel	Modulation	15KHz / 20MHz		30KHz / 20MHz		Limit (dB)	Verdict
		DFT-Pi2BPSK	DFT-QPSK	DFT-Pi2BPSK	DFT-QPSK		
LCH	Outer_Full	7.60	7.52	8.12	7.52	13.00	Pass
MCH	Outer_Full	7.72	7.44	7.86	7.35	13.00	Pass
HCH	Outer_Full	7.61	7.40	7.83	7.17	13.00	Pass

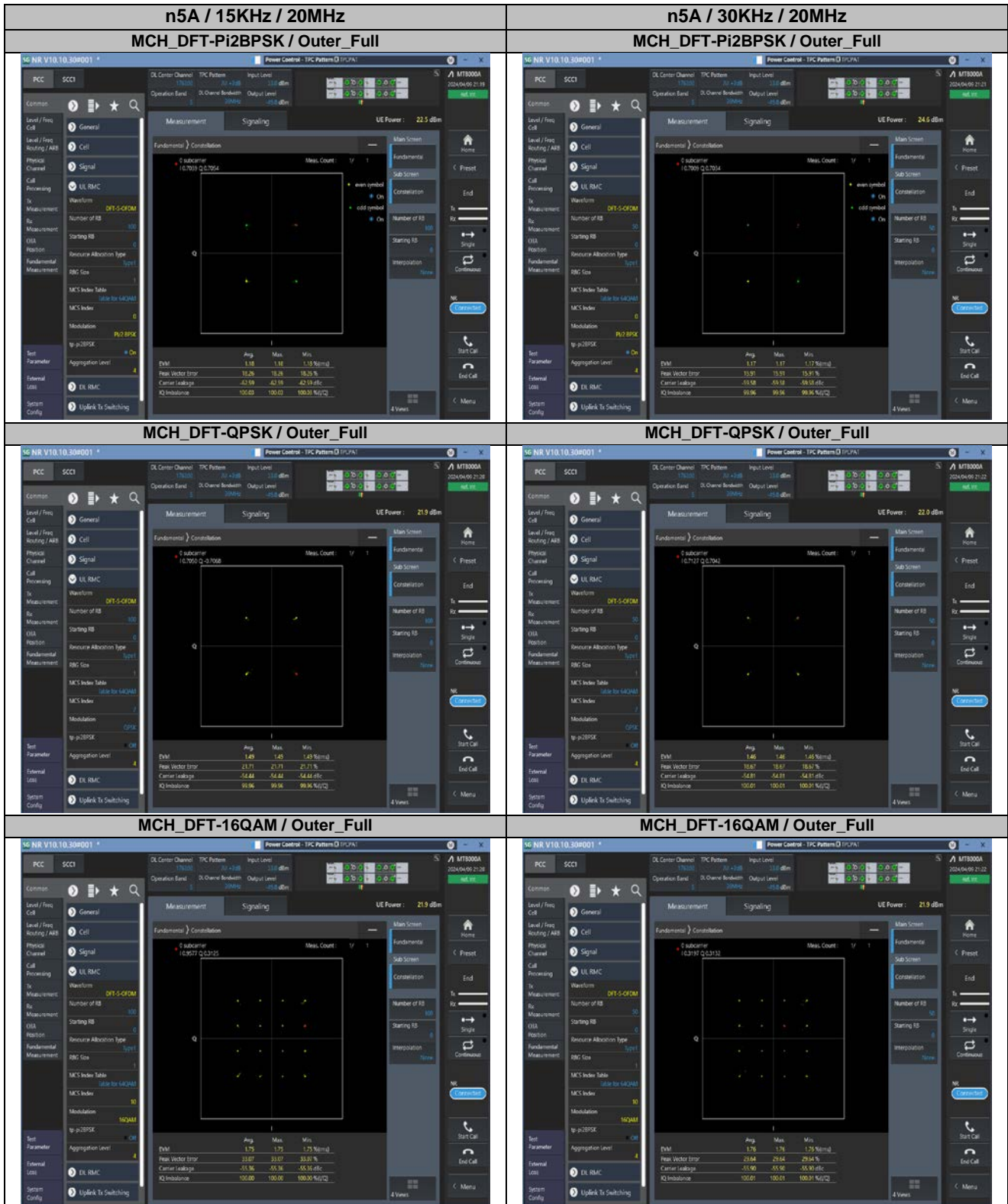
2.2. Test Plots

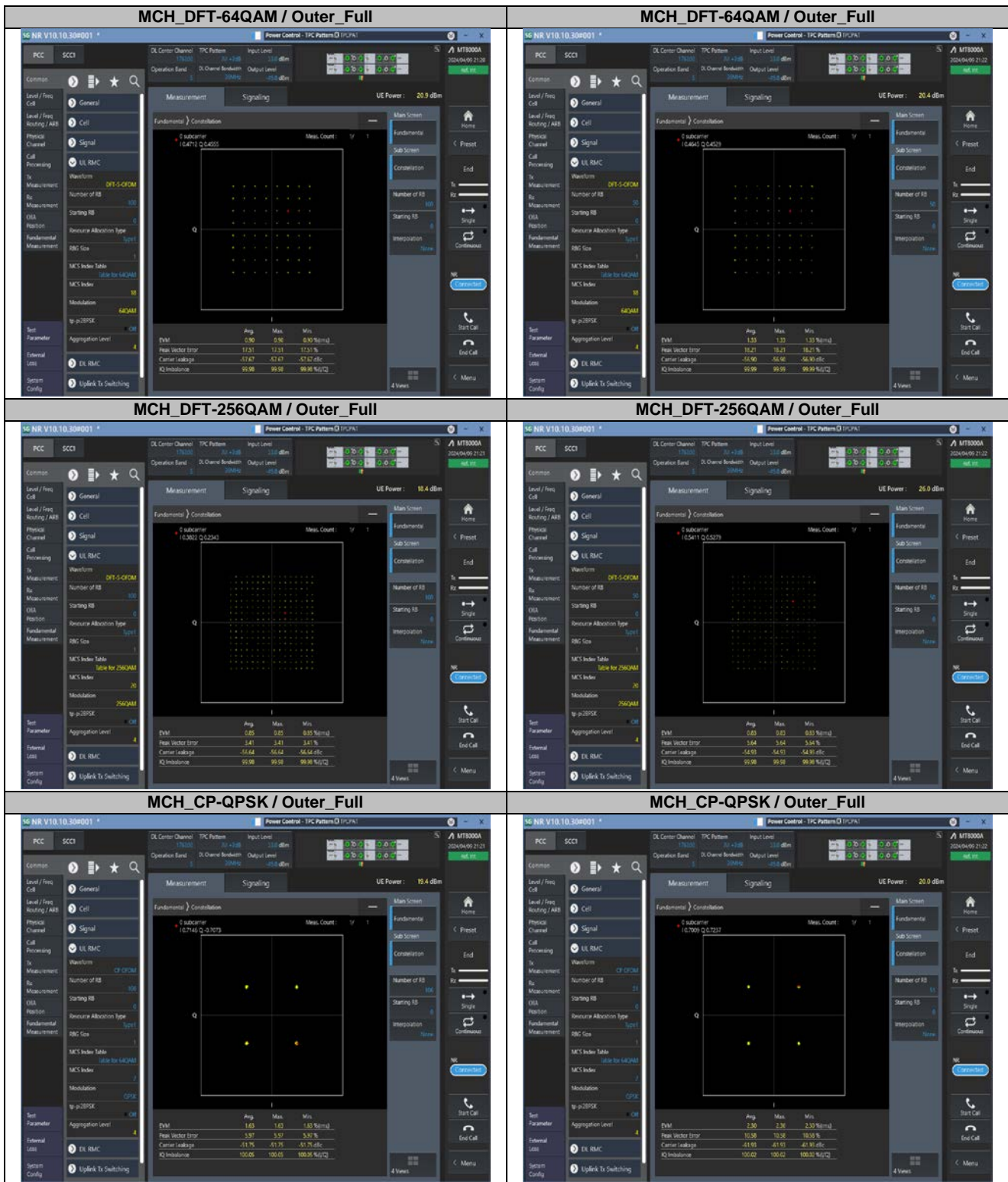


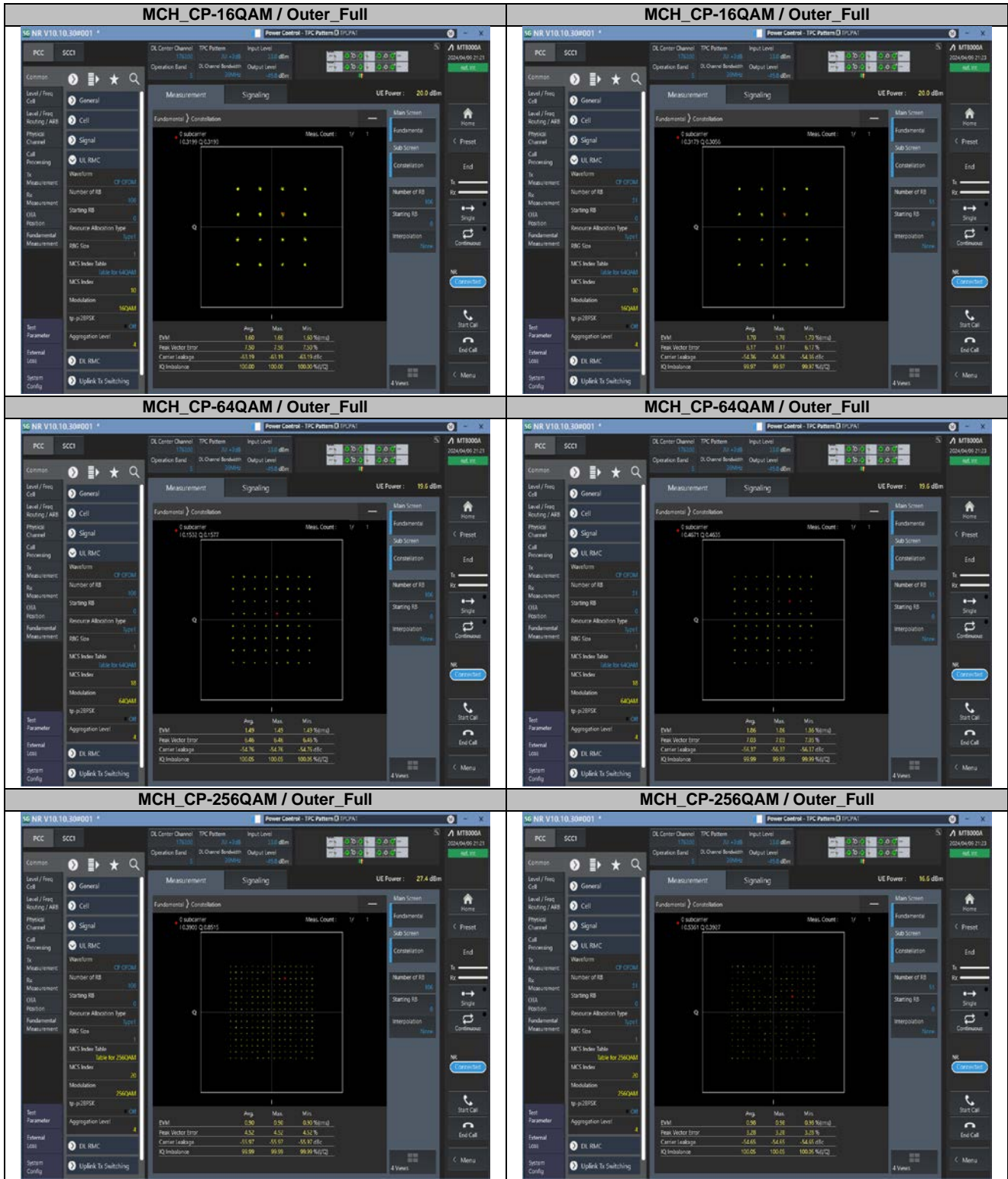


3. Modulation Characteristics

3.1. Test Plots





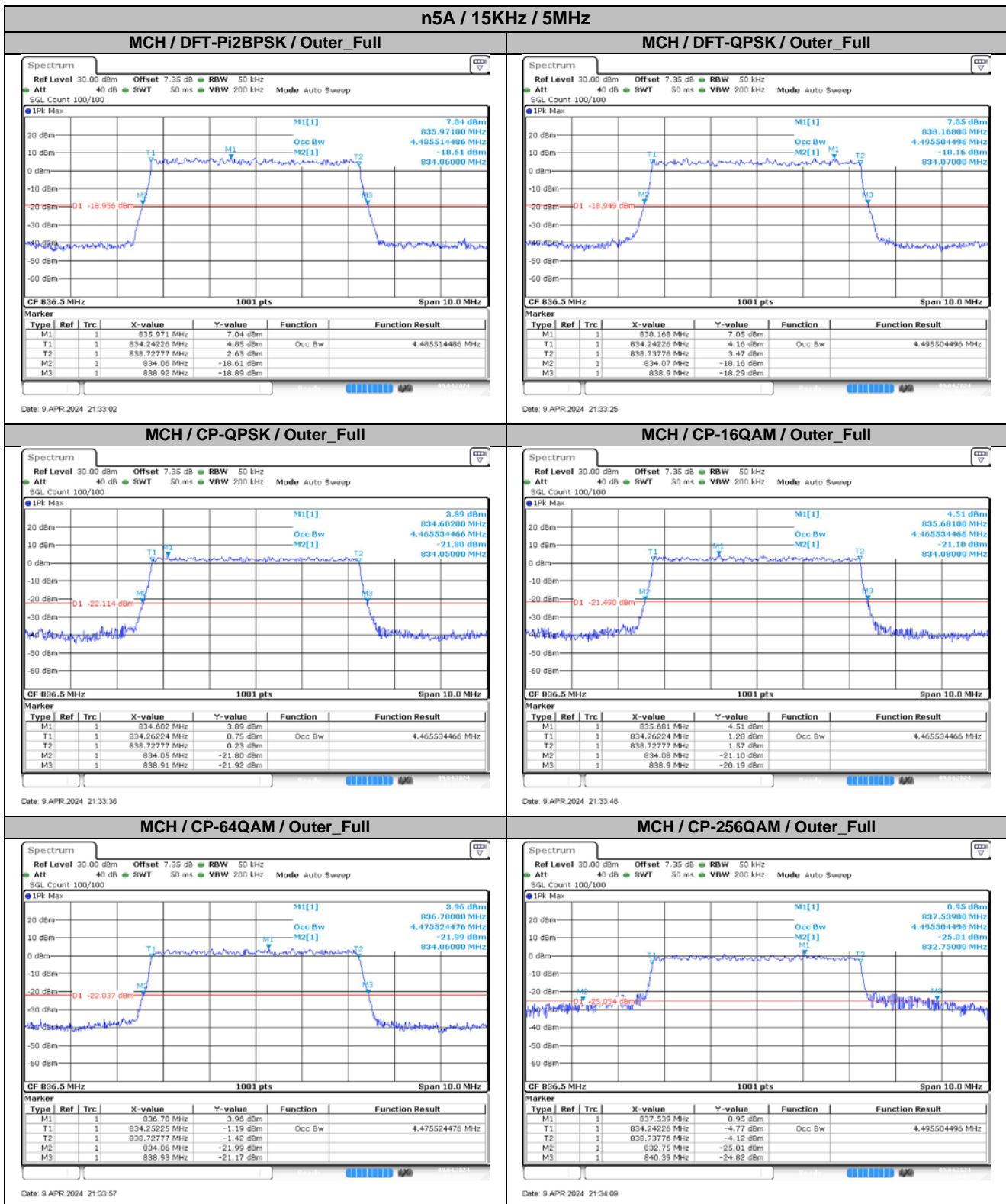


4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

4.1. Test Results

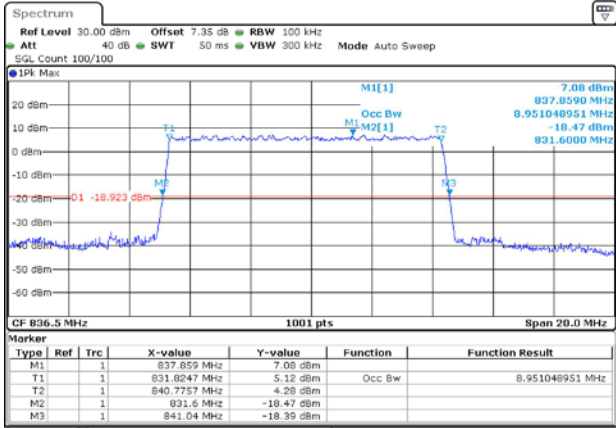
Bandwidth	Modulation	RB Config	99% Occupied Bandwidth (MHz)		26dB Emission Bandwidth (MHz)		Verdict
			15KHz	30KHz	15KHz	30KHz	
5MHz	DFT-Pi2BPSK	Outer_Full	4.49	N/A	4.86	N/A	Pass
5MHz	DFT-QPSK	Outer_Full	4.50	N/A	4.83	N/A	Pass
5MHz	CP-QPSK	Outer_Full	4.47	N/A	4.86	N/A	Pass
5MHz	CP-16QAM	Outer_Full	4.47	N/A	4.82	N/A	Pass
5MHz	CP-64QAM	Outer_Full	4.48	N/A	4.87	N/A	Pass
5MHz	CP-256QAM	Outer_Full	4.50	N/A	7.64	N/A	Pass
10MHz	DFT-Pi2BPSK	Outer_Full	8.95	8.59	9.44	9.32	Pass
10MHz	DFT-QPSK	Outer_Full	8.91	8.59	9.36	9.28	Pass
10MHz	CP-QPSK	Outer_Full	9.29	8.59	9.78	9.36	Pass
10MHz	CP-16QAM	Outer_Full	9.29	8.57	9.80	9.34	Pass
10MHz	CP-64QAM	Outer_Full	9.27	8.57	9.76	9.30	Pass
10MHz	CP-256QAM	Outer_Full	9.27	8.59	9.76	9.26	Pass
15MHz	DFT-Pi2BPSK	Outer_Full	13.46	12.95	14.16	13.80	Pass
15MHz	DFT-QPSK	Outer_Full	13.43	12.95	14.10	13.92	Pass
15MHz	CP-QPSK	Outer_Full	14.09	13.61	14.85	14.67	Pass
15MHz	CP-16QAM	Outer_Full	14.12	13.61	14.85	14.55	Pass
15MHz	CP-64QAM	Outer_Full	14.12	13.64	14.82	14.58	Pass
15MHz	CP-256QAM	Outer_Full	14.15	13.64	14.79	14.58	Pass
20MHz	DFT-Pi2BPSK	Outer_Full	17.86	17.90	18.64	18.84	Pass
20MHz	DFT-QPSK	Outer_Full	17.82	17.82	18.64	18.80	Pass
20MHz	CP-QPSK	Outer_Full	18.90	18.18	19.76	19.24	Pass
20MHz	CP-16QAM	Outer_Full	18.90	18.22	19.76	19.24	Pass
20MHz	CP-64QAM	Outer_Full	18.94	18.18	19.72	19.16	Pass
20MHz	CP-256QAM	Outer_Full	18.86	18.26	19.72	19.20	Pass

4.2. Test Plots



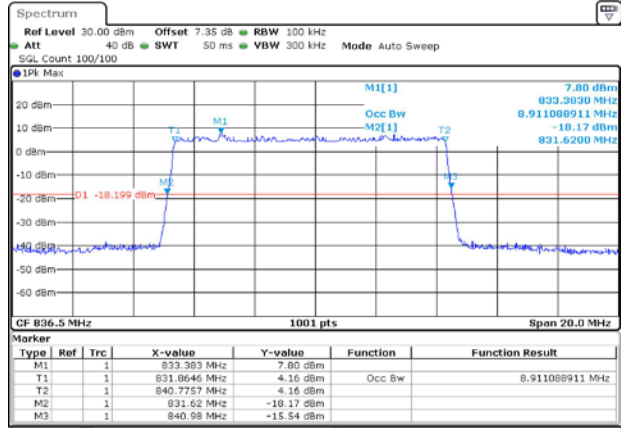
n5A / 15KHz / 10MHz

MCH_DFT-Pi2BPSK / Outer_Full



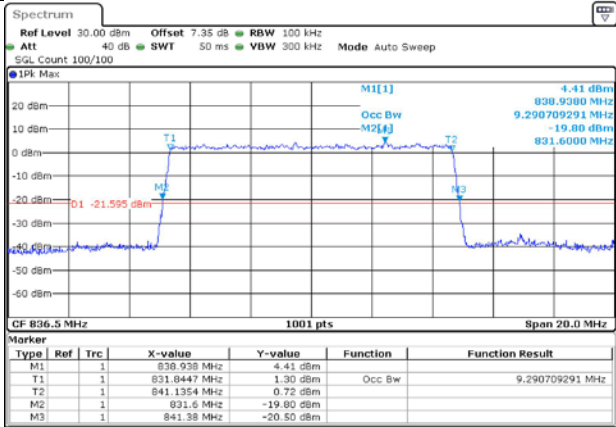
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MCH_DFT-QPSK / Outer_Full



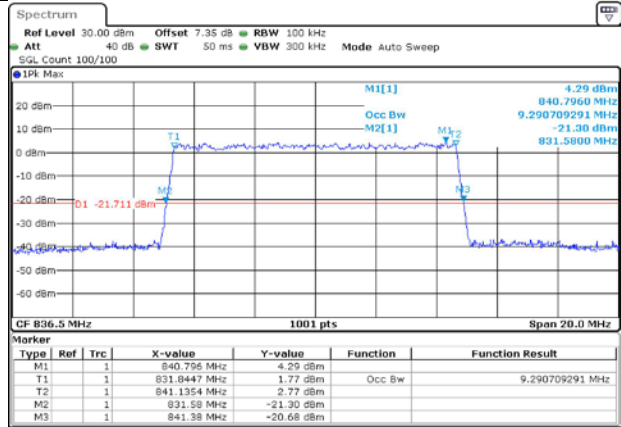
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MCH_CP-QPSK / Outer_Full



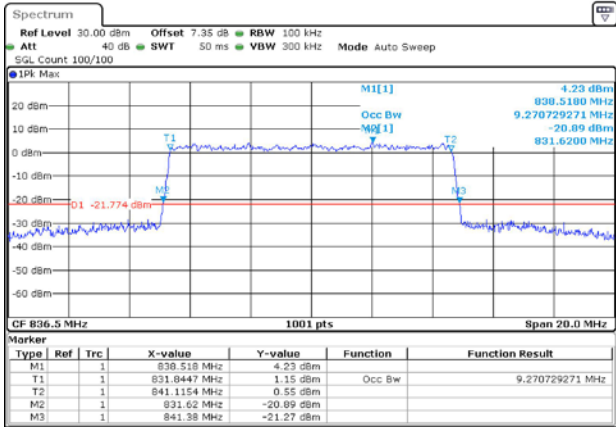
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MCH_CP-16QAM / Outer_Full



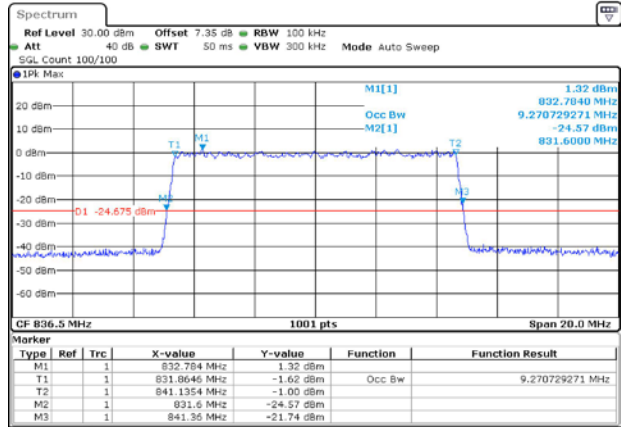
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MCH_CP-64QAM / Outer_Full

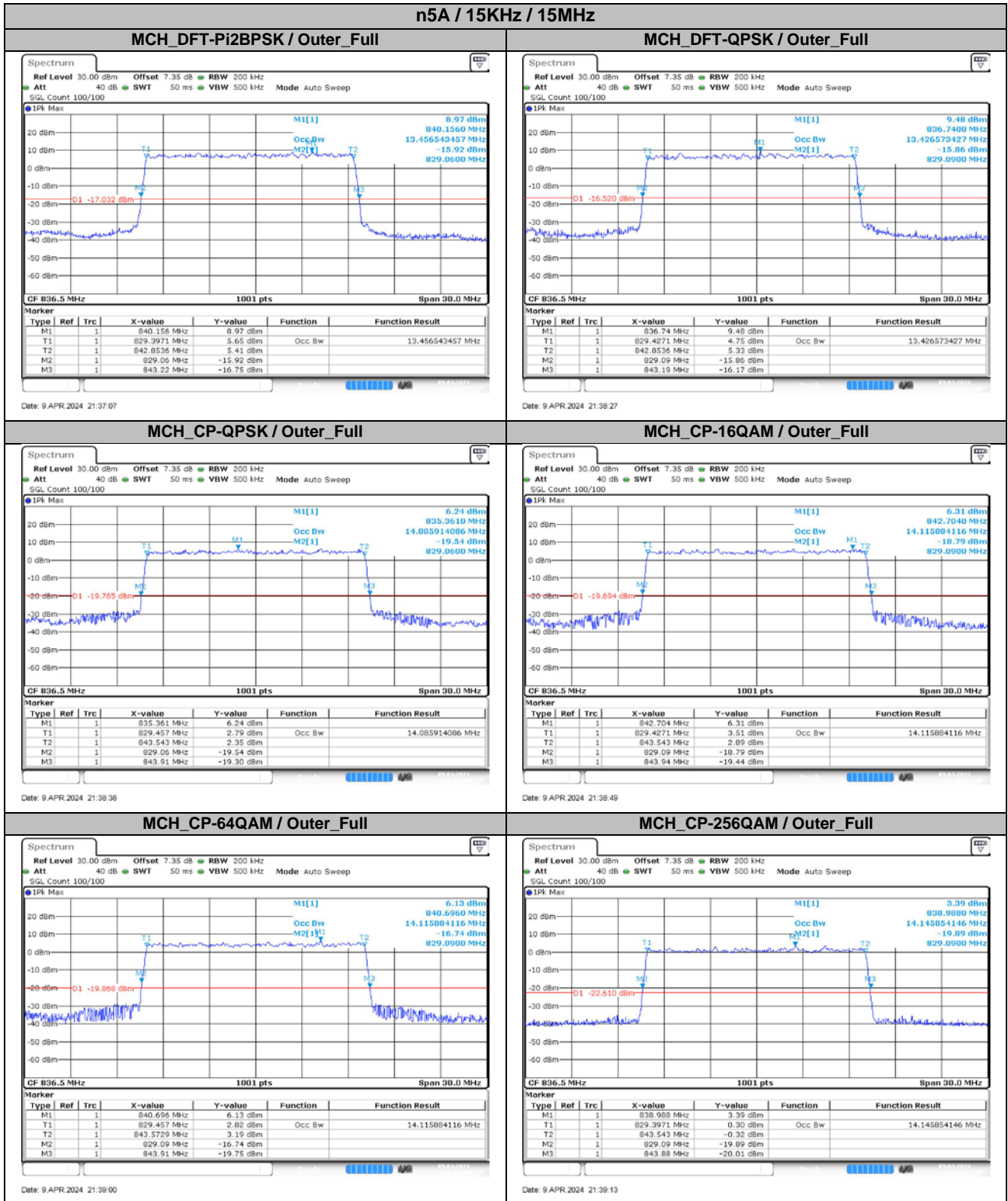


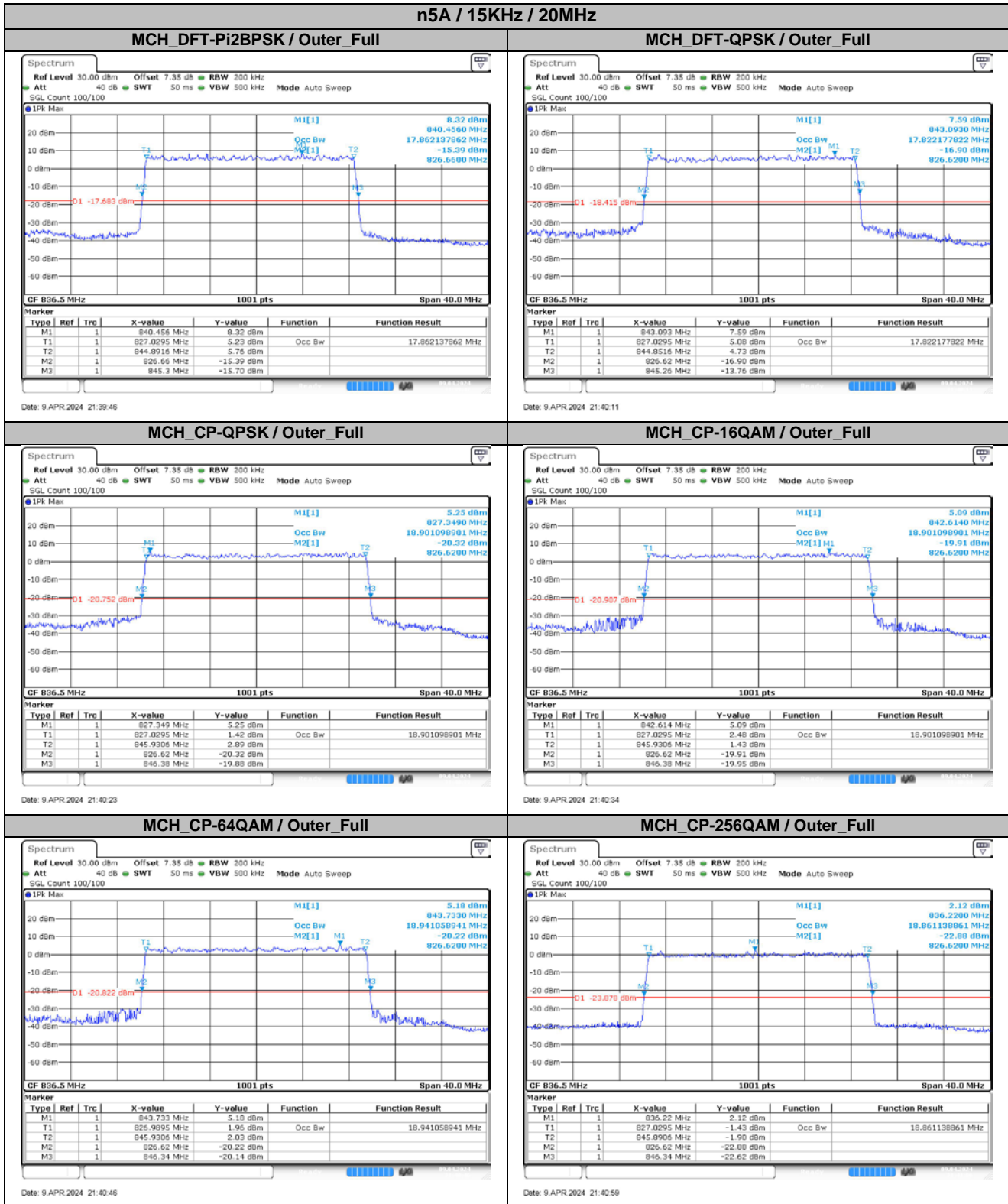
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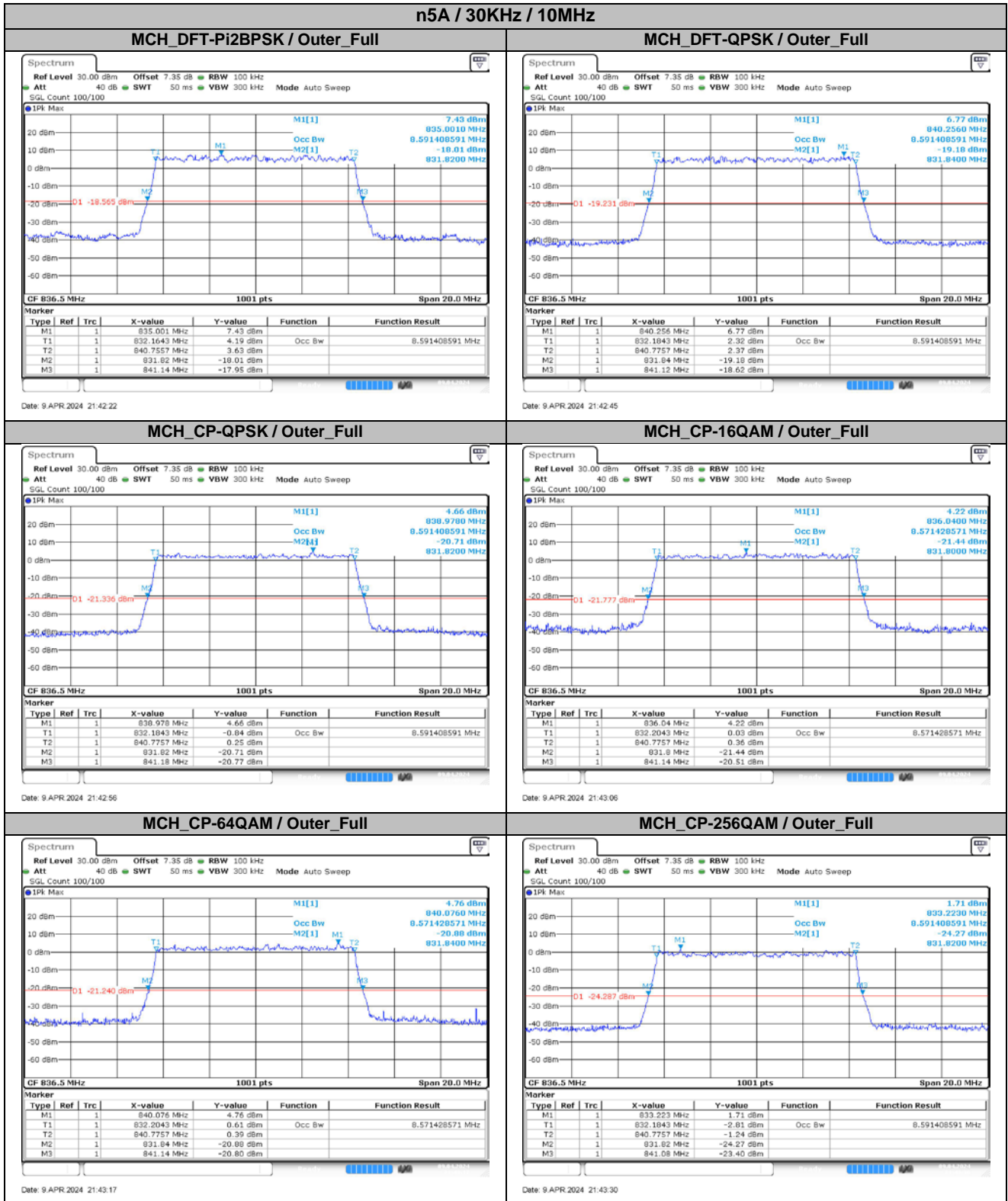
MCH_CP-256QAM / Outer_Full

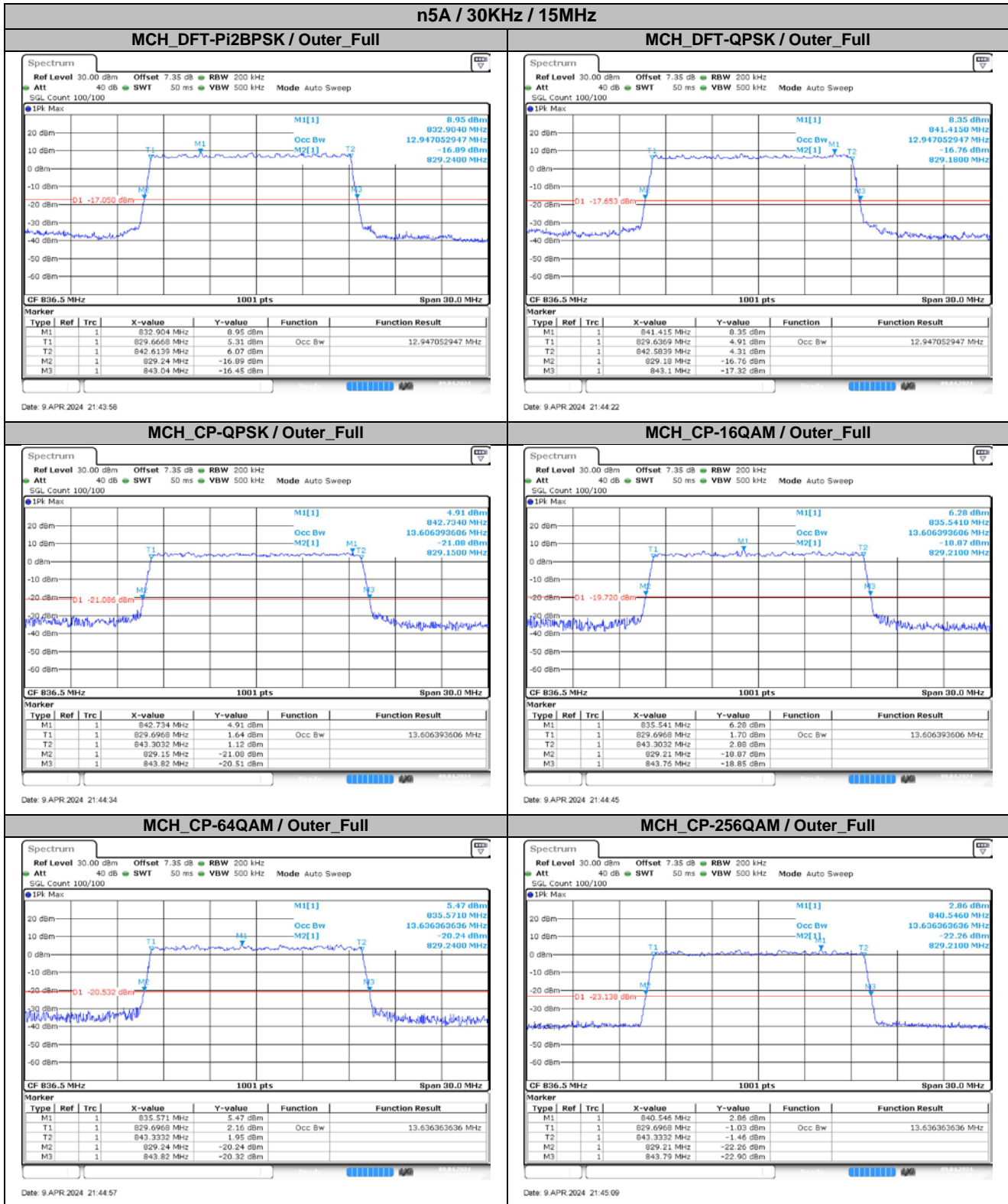


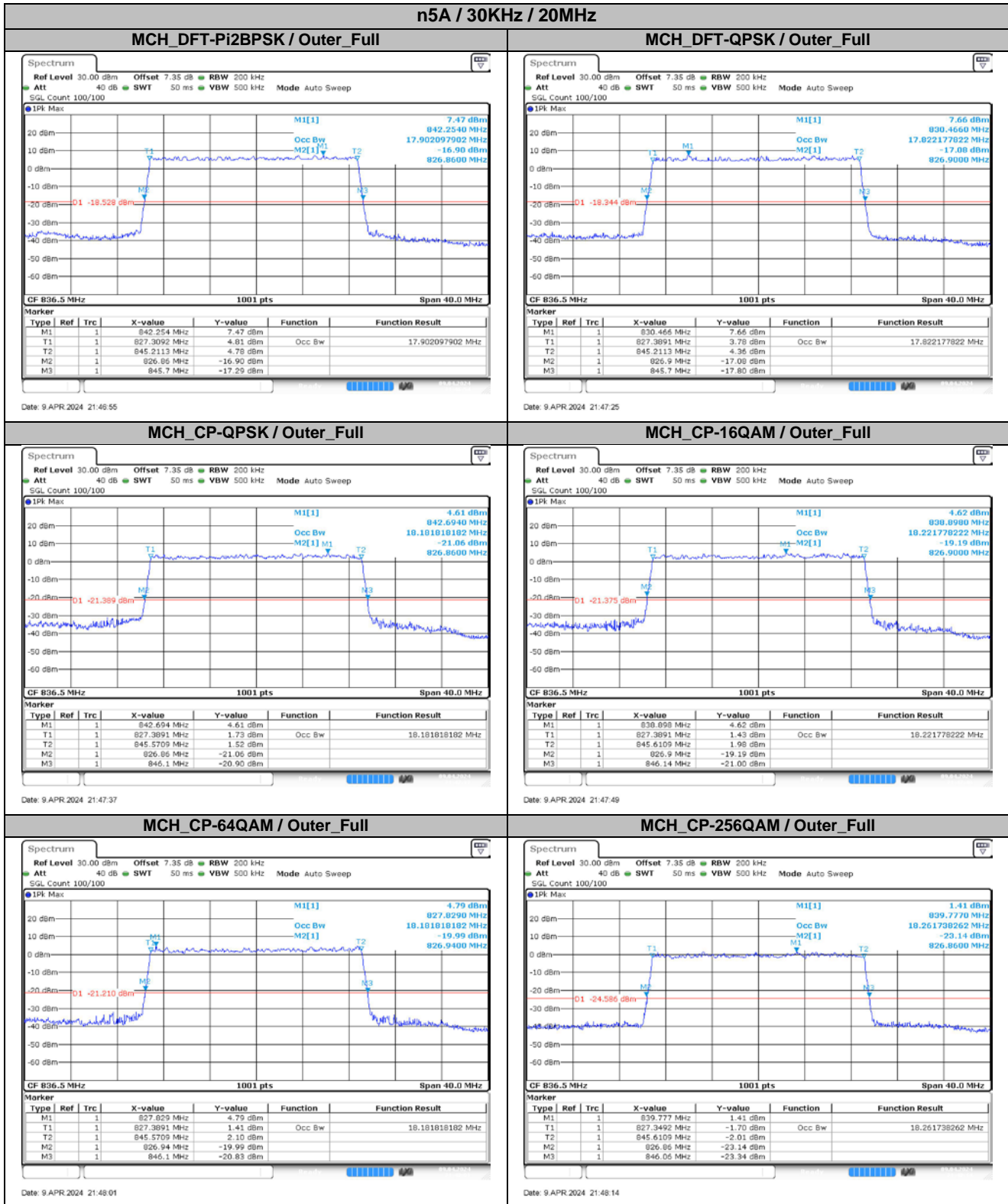
Date: 9 APR 2024 21:35:52





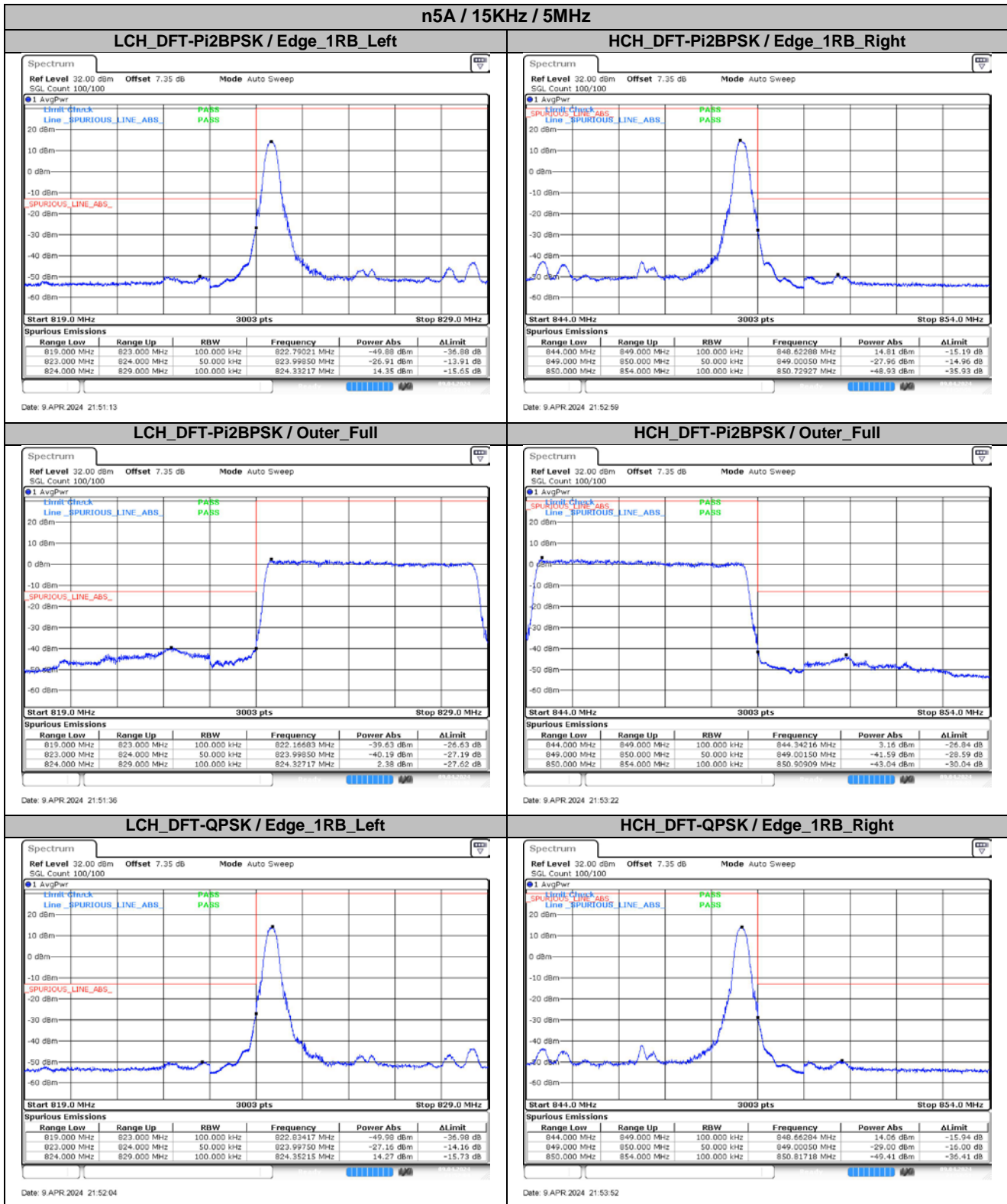


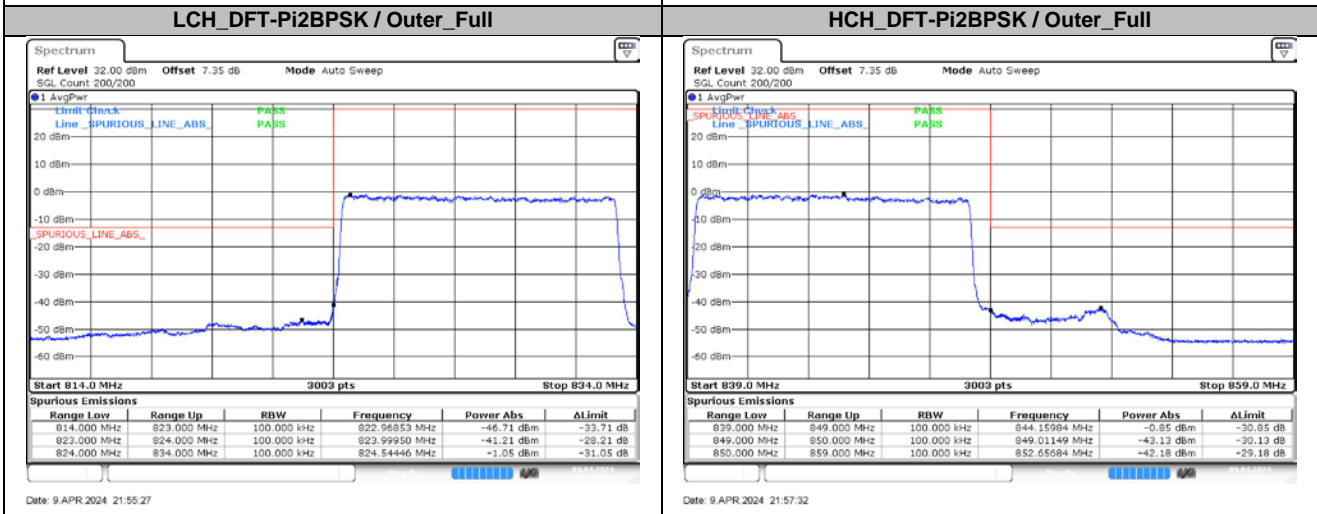
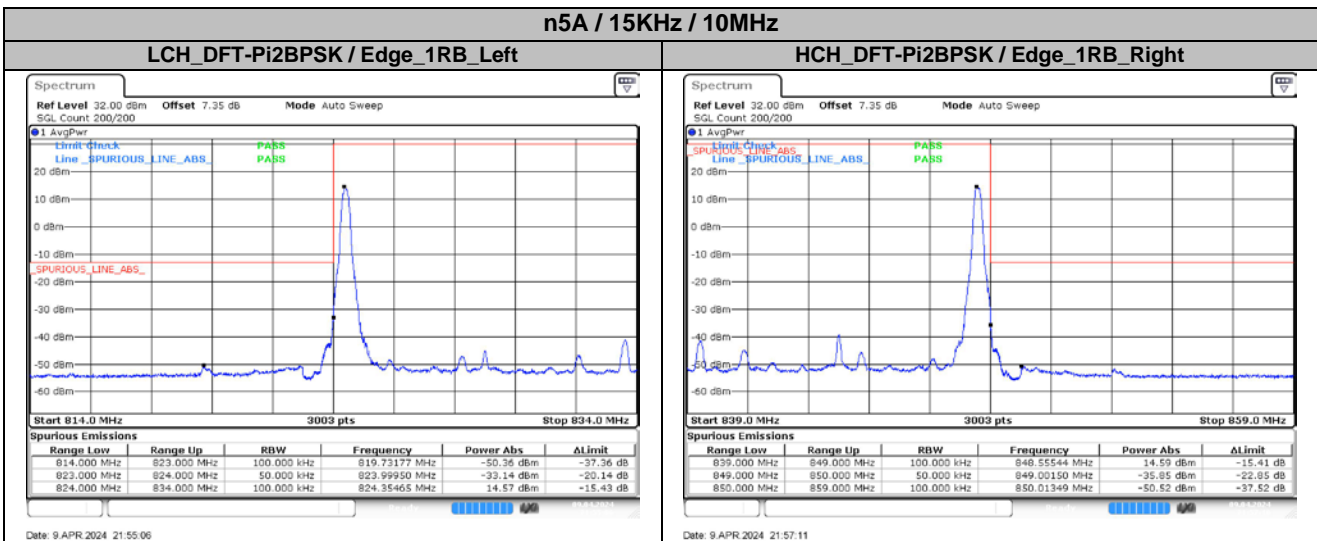
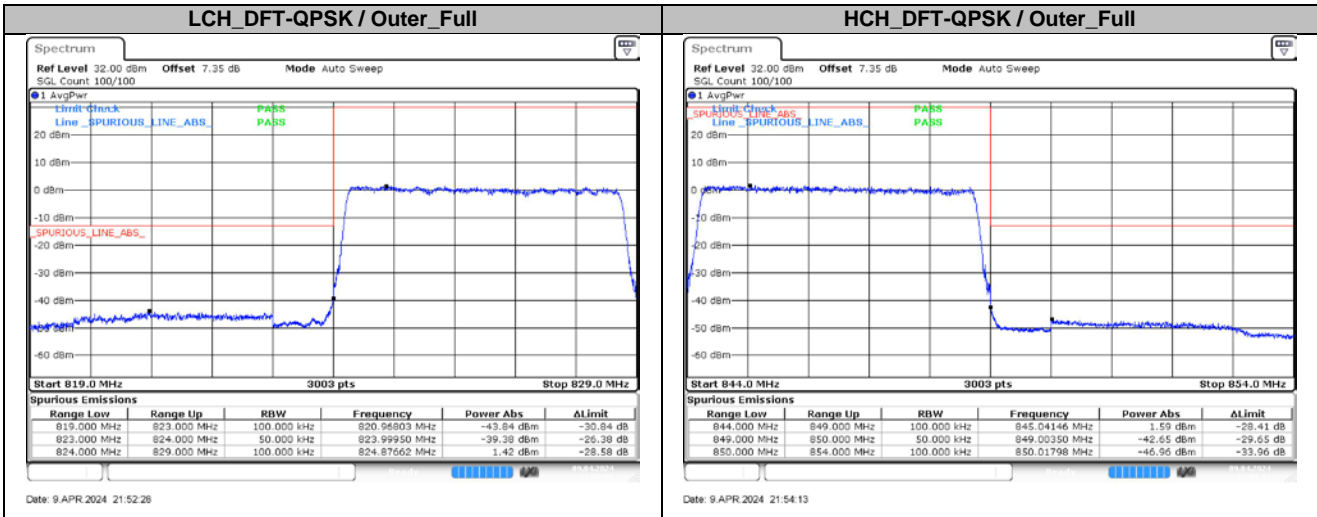


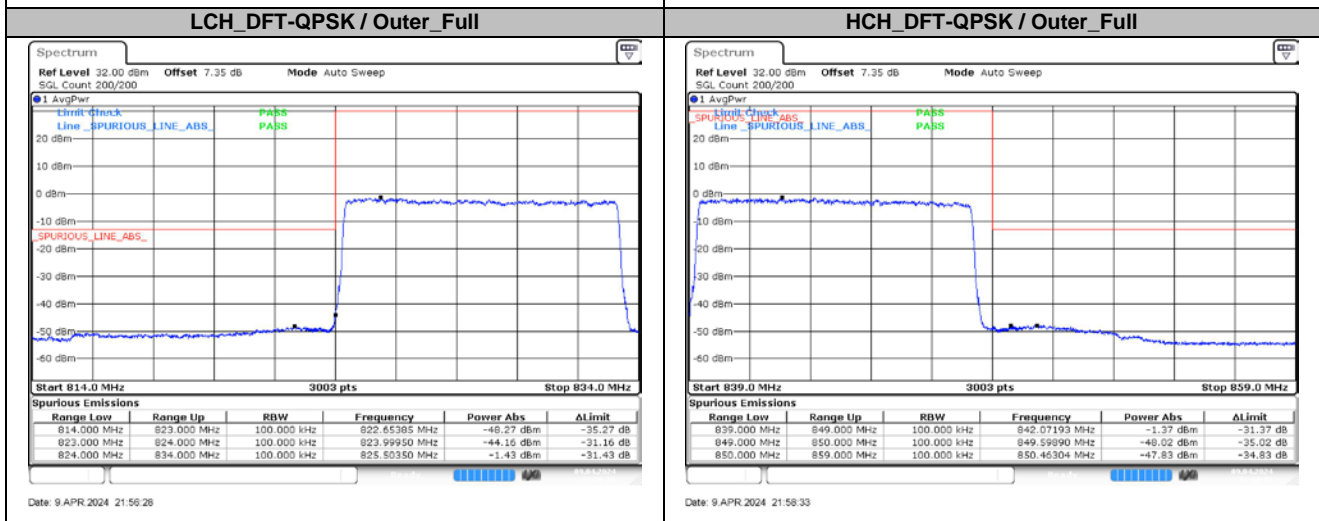
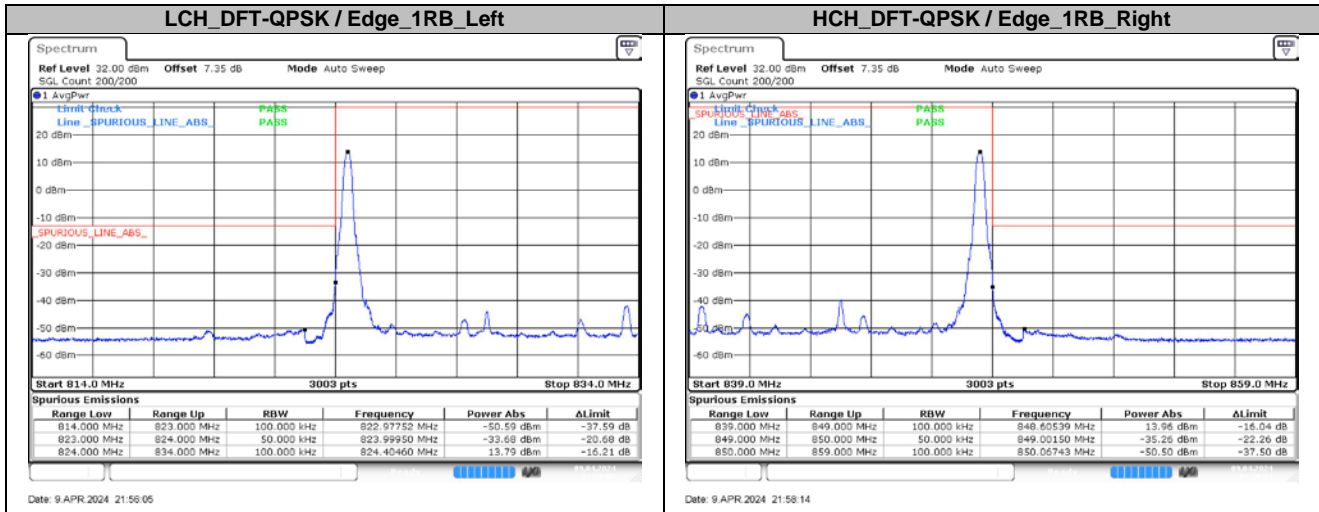


5. Conducted Band Edges

5.1. Test Plots







n5A / 15KHz / 15MHz

