

**Appendix
for
n78A
(3450-3550)**

Catalogue

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1. Effective Isotropic Radiated Power

1.1. Test Results @ Ant3 (Antenna Gain=-3.00dBi)

SCS	Bandwidth	Channel	Modulation	Conducted Result (dBm)			Max EIRP (dBm)	Limit (dBm)	Verdict
				Inner_1RB_Left	Inner_1RB_Right	Inner_Full			
30KHz	20MHz	LCH	DFT-Pi2BPSK	23.03	23.53	23.45	20.53	30.00	Pass
30KHz	20MHz	LCH	DFT-QPSK	23.32	23.47	23.38	20.47	30.00	Pass
30KHz	20MHz	LCH	DFT-16QAM	22.64	22.92	22.53	19.92	30.00	Pass
30KHz	20MHz	LCH	DFT-64QAM	20.50	20.64	20.85	17.85	30.00	Pass
30KHz	20MHz	LCH	DFT-256QAM	19.01	19.06	18.82	16.06	30.00	Pass
30KHz	20MHz	LCH	CP-QPSK	21.86	21.86	22.04	19.04	30.00	Pass
30KHz	20MHz	MCH	DFT-Pi2BPSK	23.43	23.00	23.17	20.43	30.00	Pass
30KHz	20MHz	MCH	DFT-QPSK	23.29	23.09	23.11	20.29	30.00	Pass
30KHz	20MHz	MCH	DFT-16QAM	22.34	22.33	22.48	19.48	30.00	Pass
30KHz	20MHz	MCH	DFT-64QAM	20.91	20.71	20.82	17.91	30.00	Pass
30KHz	20MHz	MCH	DFT-256QAM	18.94	18.80	18.80	15.94	30.00	Pass
30KHz	20MHz	MCH	CP-QPSK	21.91	21.98	21.86	18.98	30.00	Pass
30KHz	20MHz	HCH	DFT-Pi2BPSK	23.58	23.71	23.61	20.71	30.00	Pass
30KHz	20MHz	HCH	DFT-QPSK	23.45	23.68	23.69	20.69	30.00	Pass
30KHz	20MHz	HCH	DFT-16QAM	22.65	22.85	22.72	19.85	30.00	Pass
30KHz	20MHz	HCH	DFT-64QAM	21.48	20.77	21.14	18.48	30.00	Pass
30KHz	20MHz	HCH	DFT-256QAM	19.29	19.41	19.15	16.41	30.00	Pass
30KHz	20MHz	HCH	CP-QPSK	22.12	22.08	22.15	19.15	30.00	Pass
30KHz	30MHz	LCH	DFT-Pi2BPSK	23.73	23.72	23.63	20.73	30.00	Pass
30KHz	30MHz	LCH	DFT-QPSK	23.55	23.89	23.53	20.89	30.00	Pass
30KHz	30MHz	LCH	DFT-16QAM	22.75	22.91	22.69	19.91	30.00	Pass
30KHz	30MHz	LCH	DFT-64QAM	21.25	21.46	21.28	18.46	30.00	Pass
30KHz	30MHz	LCH	DFT-256QAM	19.05	19.08	19.18	16.18	30.00	Pass
30KHz	30MHz	LCH	CP-QPSK	22.30	22.40	22.12	19.40	30.00	Pass
30KHz	30MHz	MCH	DFT-Pi2BPSK	23.50	23.38	23.09	20.50	30.00	Pass
30KHz	30MHz	MCH	DFT-QPSK	23.39	23.51	23.30	20.51	30.00	Pass
30KHz	30MHz	MCH	DFT-16QAM	22.64	22.17	22.32	19.64	30.00	Pass
30KHz	30MHz	MCH	DFT-64QAM	20.83	20.72	21.02	18.02	30.00	Pass
30KHz	30MHz	MCH	DFT-256QAM	19.21	19.05	18.95	16.21	30.00	Pass
30KHz	30MHz	MCH	CP-QPSK	22.16	22.21	22.15	19.21	30.00	Pass
30KHz	30MHz	HCH	DFT-Pi2BPSK	23.45	23.84	23.70	20.84	30.00	Pass
30KHz	30MHz	HCH	DFT-QPSK	23.42	23.24	23.53	20.53	30.00	Pass
30KHz	30MHz	HCH	DFT-16QAM	22.55	22.75	22.63	19.75	30.00	Pass
30KHz	30MHz	HCH	DFT-64QAM	21.45	21.39	21.40	18.45	30.00	Pass
30KHz	30MHz	HCH	DFT-256QAM	19.08	19.43	19.33	16.43	30.00	Pass
30KHz	30MHz	HCH	CP-QPSK	22.06	22.04	22.29	19.29	30.00	Pass
30KHz	40MHz	LCH	DFT-Pi2BPSK	23.84	23.77	23.45	20.84	30.00	Pass
30KHz	40MHz	LCH	DFT-QPSK	23.65	23.58	23.44	20.65	30.00	Pass
30KHz	40MHz	LCH	DFT-16QAM	22.85	22.81	22.67	19.85	30.00	Pass
30KHz	40MHz	LCH	DFT-64QAM	21.25	21.17	21.29	18.29	30.00	Pass
30KHz	40MHz	LCH	DFT-256QAM	19.34	19.47	19.03	16.47	30.00	Pass
30KHz	40MHz	LCH	CP-QPSK	22.30	22.23	22.30	19.30	30.00	Pass
30KHz	40MHz	MCH	DFT-Pi2BPSK	23.53	23.15	23.37	20.53	30.00	Pass
30KHz	40MHz	MCH	DFT-QPSK	23.82	23.62	23.22	20.82	30.00	Pass
30KHz	40MHz	MCH	DFT-16QAM	22.87	22.30	22.44	19.87	30.00	Pass
30KHz	40MHz	MCH	DFT-64QAM	21.39	20.91	20.77	18.39	30.00	Pass
30KHz	40MHz	MCH	DFT-256QAM	19.36	18.89	18.75	16.36	30.00	Pass
30KHz	40MHz	MCH	CP-QPSK	22.43	22.18	21.92	19.43	30.00	Pass
30KHz	40MHz	HCH	DFT-Pi2BPSK	23.31	23.33	23.44	20.44	30.00	Pass
30KHz	40MHz	HCH	DFT-QPSK	23.45	23.36	23.48	20.48	30.00	Pass
30KHz	40MHz	HCH	DFT-16QAM	22.88	22.98	22.73	19.98	30.00	Pass
30KHz	40MHz	HCH	DFT-64QAM	20.88	21.16	21.32	18.32	30.00	Pass
30KHz	40MHz	HCH	DFT-256QAM	19.14	19.23	18.96	16.23	30.00	Pass
30KHz	40MHz	HCH	CP-QPSK	22.26	22.50	22.08	19.50	30.00	Pass
30KHz	50MHz	LCH	DFT-Pi2BPSK	23.05	23.15	23.45	20.45	30.00	Pass
30KHz	50MHz	LCH	DFT-QPSK	23.34	23.25	23.42	20.42	30.00	Pass
30KHz	50MHz	LCH	DFT-16QAM	22.13	22.09	22.28	19.28	30.00	Pass
30KHz	50MHz	LCH	DFT-64QAM	21.28	21.20	21.02	18.28	30.00	Pass

30KHz	50MHz	LCH	DFT-256QAM	18.67	18.65	18.83	15.83	30.00	Pass
30KHz	50MHz	LCH	CP-QPSK	22.04	21.75	21.95	19.04	30.00	Pass
30KHz	50MHz	MCH	DFT-Pi2BPSK	23.21	23.09	22.97	20.21	30.00	Pass
30KHz	50MHz	MCH	DFT-QPSK	23.17	23.08	23.25	20.25	30.00	Pass
30KHz	50MHz	MCH	DFT-16QAM	22.21	21.87	22.16	19.21	30.00	Pass
30KHz	50MHz	MCH	DFT-64QAM	20.81	20.54	20.71	17.81	30.00	Pass
30KHz	50MHz	MCH	DFT-256QAM	19.10	18.56	18.50	16.10	30.00	Pass
30KHz	50MHz	MCH	CP-QPSK	22.12	21.56	21.80	19.12	30.00	Pass
30KHz	50MHz	HCH	DFT-Pi2BPSK	23.35	23.20	23.30	20.35	30.00	Pass
30KHz	50MHz	HCH	DFT-QPSK	23.32	23.24	23.23	20.32	30.00	Pass
30KHz	50MHz	HCH	DFT-16QAM	22.12	22.51	22.26	19.51	30.00	Pass
30KHz	50MHz	HCH	DFT-64QAM	20.94	20.95	20.87	17.95	30.00	Pass
30KHz	50MHz	HCH	DFT-256QAM	18.70	18.82	18.85	15.85	30.00	Pass
30KHz	50MHz	HCH	CP-QPSK	21.84	21.81	21.94	18.94	30.00	Pass
30KHz	60MHz	LCH	DFT-Pi2BPSK	23.44	22.78	23.48	20.48	30.00	Pass
30KHz	60MHz	LCH	DFT-QPSK	23.31	23.05	23.38	20.38	30.00	Pass
30KHz	60MHz	LCH	DFT-16QAM	22.58	22.19	22.59	19.59	30.00	Pass
30KHz	60MHz	LCH	DFT-64QAM	20.98	20.71	21.07	18.07	30.00	Pass
30KHz	60MHz	LCH	DFT-256QAM	19.20	18.74	18.85	16.20	30.00	Pass
30KHz	60MHz	LCH	CP-QPSK	22.07	21.58	22.02	19.07	30.00	Pass
30KHz	60MHz	MCH	DFT-Pi2BPSK	23.23	23.03	23.21	20.23	30.00	Pass
30KHz	60MHz	MCH	DFT-QPSK	23.40	23.07	23.20	20.40	30.00	Pass
30KHz	60MHz	MCH	DFT-16QAM	22.47	22.15	22.26	19.47	30.00	Pass
30KHz	60MHz	MCH	DFT-64QAM	20.93	20.60	20.77	17.93	30.00	Pass
30KHz	60MHz	MCH	DFT-256QAM	18.97	18.62	18.69	15.97	30.00	Pass
30KHz	60MHz	MCH	CP-QPSK	22.13	21.65	21.63	19.13	30.00	Pass
30KHz	60MHz	HCH	DFT-Pi2BPSK	23.36	23.42	23.21	20.42	30.00	Pass
30KHz	60MHz	HCH	DFT-QPSK	23.54	23.32	23.20	20.54	30.00	Pass
30KHz	60MHz	HCH	DFT-16QAM	22.40	22.40	22.37	19.40	30.00	Pass
30KHz	60MHz	HCH	DFT-64QAM	20.48	20.36	20.96	17.96	30.00	Pass
30KHz	60MHz	HCH	DFT-256QAM	18.85	18.72	18.66	15.85	30.00	Pass
30KHz	60MHz	HCH	CP-QPSK	21.80	21.77	21.92	18.92	30.00	Pass
30KHz	70MHz	LCH	DFT-Pi2BPSK	23.27	23.05	23.21	20.27	30.00	Pass
30KHz	70MHz	LCH	DFT-QPSK	23.18	22.91	23.33	20.33	30.00	Pass
30KHz	70MHz	LCH	DFT-16QAM	22.18	22.13	22.27	19.27	30.00	Pass
30KHz	70MHz	LCH	DFT-64QAM	21.14	20.95	20.84	18.14	30.00	Pass
30KHz	70MHz	LCH	DFT-256QAM	18.55	18.24	18.63	15.63	30.00	Pass
30KHz	70MHz	LCH	CP-QPSK	21.96	21.66	21.76	18.96	30.00	Pass
30KHz	70MHz	MCH	DFT-Pi2BPSK	23.04	23.12	22.99	20.12	30.00	Pass
30KHz	70MHz	MCH	DFT-QPSK	23.08	22.88	23.03	20.08	30.00	Pass
30KHz	70MHz	MCH	DFT-16QAM	22.20	22.16	22.04	19.20	30.00	Pass
30KHz	70MHz	MCH	DFT-64QAM	20.70	20.60	20.58	17.70	30.00	Pass
30KHz	70MHz	MCH	DFT-256QAM	19.03	18.82	18.59	16.03	30.00	Pass
30KHz	70MHz	MCH	CP-QPSK	21.98	21.70	21.57	18.98	30.00	Pass
30KHz	70MHz	HCH	DFT-Pi2BPSK	23.50	23.30	23.02	20.50	30.00	Pass
30KHz	70MHz	HCH	DFT-QPSK	23.44	23.20	23.18	20.44	30.00	Pass
30KHz	70MHz	HCH	DFT-16QAM	22.43	22.40	22.03	19.43	30.00	Pass
30KHz	70MHz	HCH	DFT-64QAM	21.08	20.90	20.60	18.08	30.00	Pass
30KHz	70MHz	HCH	DFT-256QAM	18.81	18.72	18.74	15.81	30.00	Pass
30KHz	70MHz	HCH	CP-QPSK	22.10	21.79	21.69	19.10	30.00	Pass
30KHz	80MHz	LCH	DFT-Pi2BPSK	22.95	22.78	23.03	20.03	30.00	Pass
30KHz	80MHz	LCH	DFT-QPSK	23.25	23.02	23.16	20.25	30.00	Pass
30KHz	80MHz	LCH	DFT-16QAM	22.26	22.01	22.33	19.33	30.00	Pass
30KHz	80MHz	LCH	DFT-64QAM	20.75	20.61	20.73	17.75	30.00	Pass
30KHz	80MHz	LCH	DFT-256QAM	18.99	18.70	18.73	15.99	30.00	Pass
30KHz	80MHz	LCH	CP-QPSK	21.93	21.63	21.75	18.93	30.00	Pass
30KHz	80MHz	MCH	DFT-Pi2BPSK	23.21	22.97	22.93	20.21	30.00	Pass
30KHz	80MHz	MCH	DFT-QPSK	23.15	23.09	22.92	20.15	30.00	Pass
30KHz	80MHz	MCH	DFT-16QAM	22.27	22.10	22.02	19.27	30.00	Pass
30KHz	80MHz	MCH	DFT-64QAM	20.80	20.54	20.46	17.80	30.00	Pass
30KHz	80MHz	MCH	DFT-256QAM	18.91	18.47	18.58	15.91	30.00	Pass
30KHz	80MHz	MCH	CP-QPSK	21.78	21.74	21.53	18.78	30.00	Pass

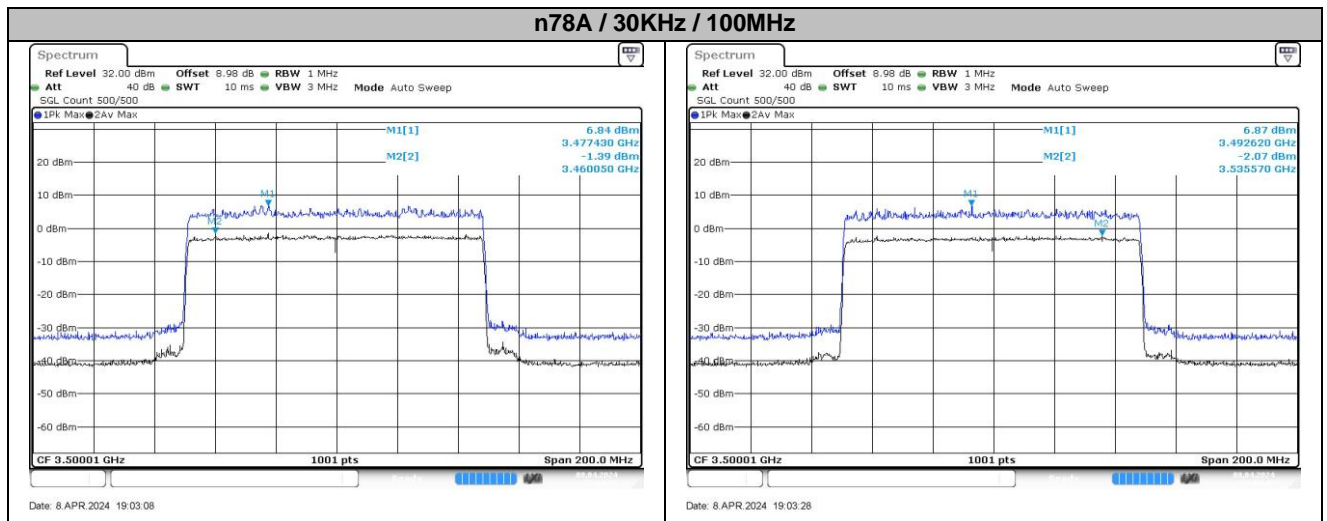
30KHz	80MHz	HCH	DFT-Pi2BPSK	23.46	23.29	23.20	20.46	30.00	Pass
30KHz	80MHz	HCH	DFT-QPSK	23.45	23.29	23.16	20.45	30.00	Pass
30KHz	80MHz	HCH	DFT-16QAM	22.60	22.55	22.18	19.60	30.00	Pass
30KHz	80MHz	HCH	DFT-64QAM	20.65	20.55	20.66	17.66	30.00	Pass
30KHz	80MHz	HCH	DFT-256QAM	18.56	18.87	18.76	15.87	30.00	Pass
30KHz	80MHz	HCH	CP-QPSK	21.87	21.81	21.72	18.87	30.00	Pass
30KHz	90MHz	LCH	DFT-Pi2BPSK	23.10	23.04	22.97	20.10	30.00	Pass
30KHz	90MHz	LCH	DFT-QPSK	22.94	22.98	23.07	20.07	30.00	Pass
30KHz	90MHz	LCH	DFT-16QAM	21.98	22.21	22.04	19.21	30.00	Pass
30KHz	90MHz	LCH	DFT-64QAM	20.95	20.92	20.47	17.95	30.00	Pass
30KHz	90MHz	LCH	DFT-256QAM	18.34	18.39	18.59	15.59	30.00	Pass
30KHz	90MHz	LCH	CP-QPSK	21.51	21.83	21.58	18.83	30.00	Pass
30KHz	90MHz	MCH	DFT-Pi2BPSK	22.98	23.12	23.07	20.12	30.00	Pass
30KHz	90MHz	MCH	DFT-QPSK	22.94	23.21	22.90	20.21	30.00	Pass
30KHz	90MHz	MCH	DFT-16QAM	22.13	22.05	22.13	19.13	30.00	Pass
30KHz	90MHz	MCH	DFT-64QAM	20.68	20.61	20.65	17.68	30.00	Pass
30KHz	90MHz	MCH	DFT-256QAM	18.69	18.86	18.56	15.86	30.00	Pass
30KHz	90MHz	MCH	CP-QPSK	21.73	21.61	21.58	18.73	30.00	Pass
30KHz	90MHz	HCH	DFT-Pi2BPSK	23.28	23.24	23.05	20.28	30.00	Pass
30KHz	90MHz	HCH	DFT-QPSK	23.21	23.25	22.91	20.25	30.00	Pass
30KHz	90MHz	HCH	DFT-16QAM	22.16	22.32	22.05	19.32	30.00	Pass
30KHz	90MHz	HCH	DFT-64QAM	20.87	20.92	20.57	17.92	30.00	Pass
30KHz	90MHz	HCH	DFT-256QAM	18.72	18.82	18.60	15.82	30.00	Pass
30KHz	90MHz	HCH	CP-QPSK	21.73	21.83	21.74	18.83	30.00	Pass
30KHz	100MHz	MCH	DFT-Pi2BPSK	22.91	23.07	23.04	20.07	30.00	Pass
30KHz	100MHz	MCH	DFT-QPSK	22.82	23.21	22.93	20.21	30.00	Pass
30KHz	100MHz	MCH	DFT-16QAM	21.98	22.08	22.15	19.15	30.00	Pass
30KHz	100MHz	MCH	DFT-64QAM	20.56	20.74	20.59	17.74	30.00	Pass
30KHz	100MHz	MCH	DFT-256QAM	18.50	18.85	18.58	15.85	30.00	Pass
30KHz	100MHz	MCH	CP-QPSK	21.51	21.76	21.69	18.76	30.00	Pass

2. Peak-to-Average Ratio

2.1. Test Results

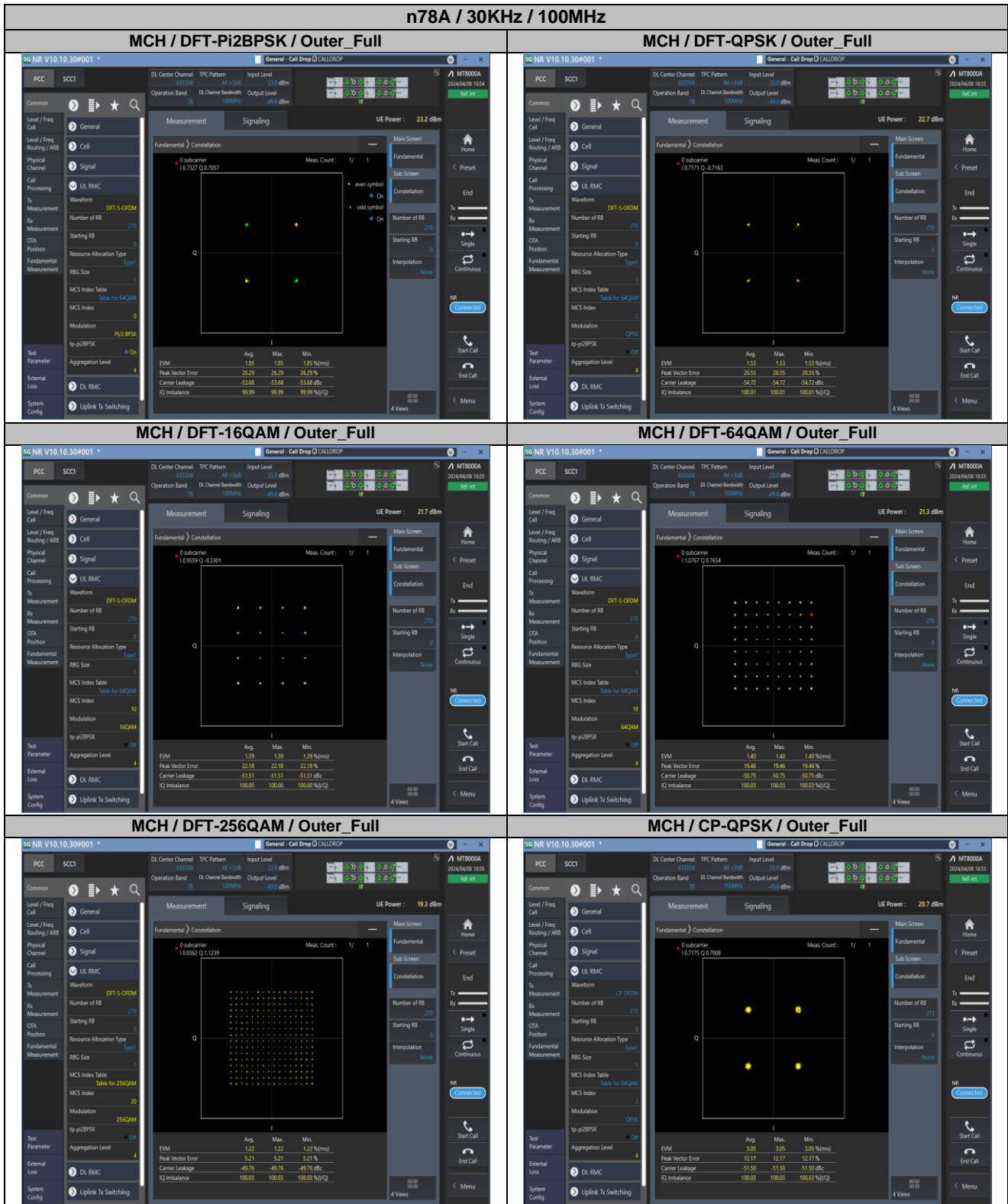
SCS	Bandwidth	Channel	Modulation	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
30KHz	100MHz	MCH	Outer_Full	8.24	8.94	13.00	Pass

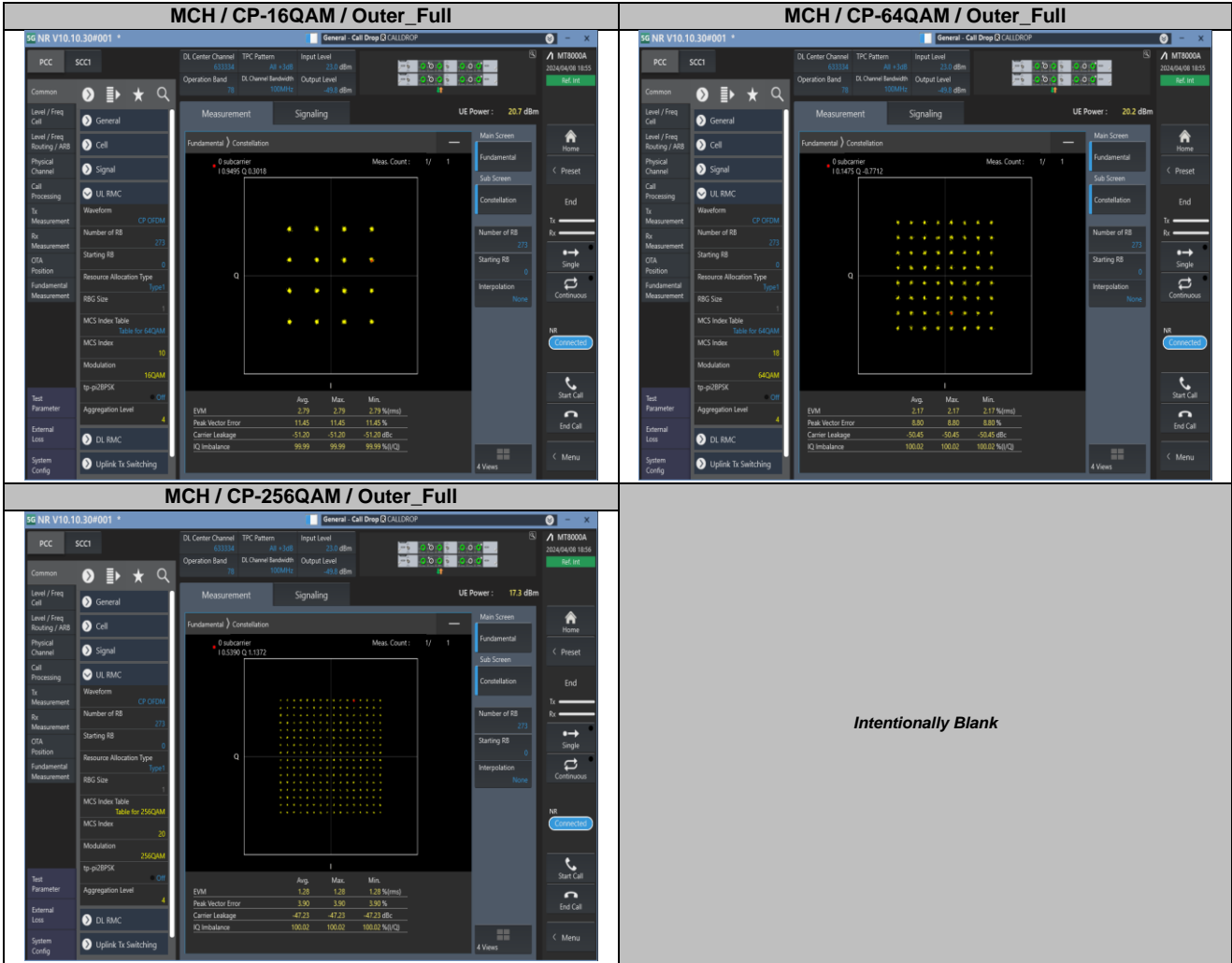
Test Plots



3. Modulation Characteristics

3.1. Test Plots



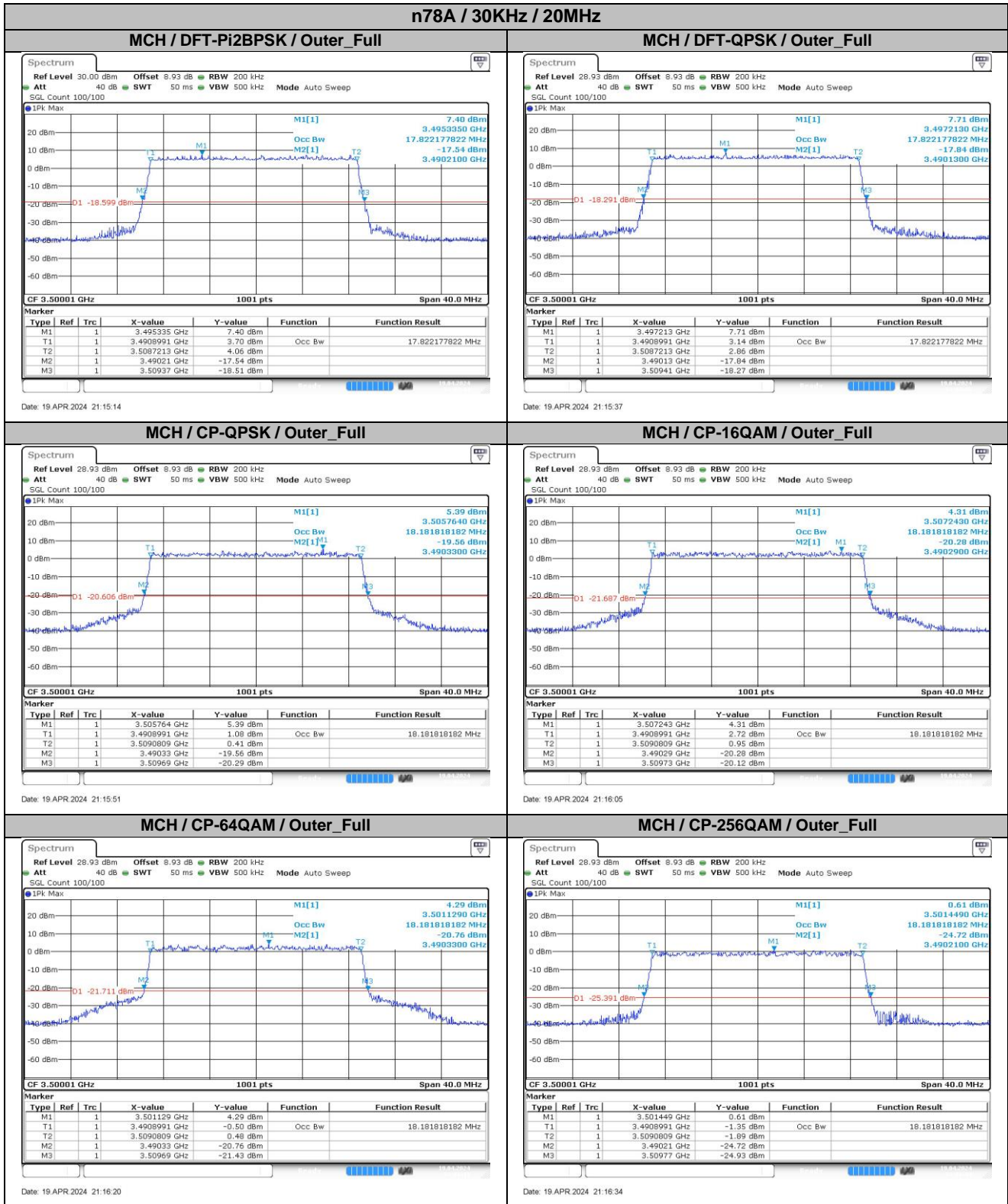


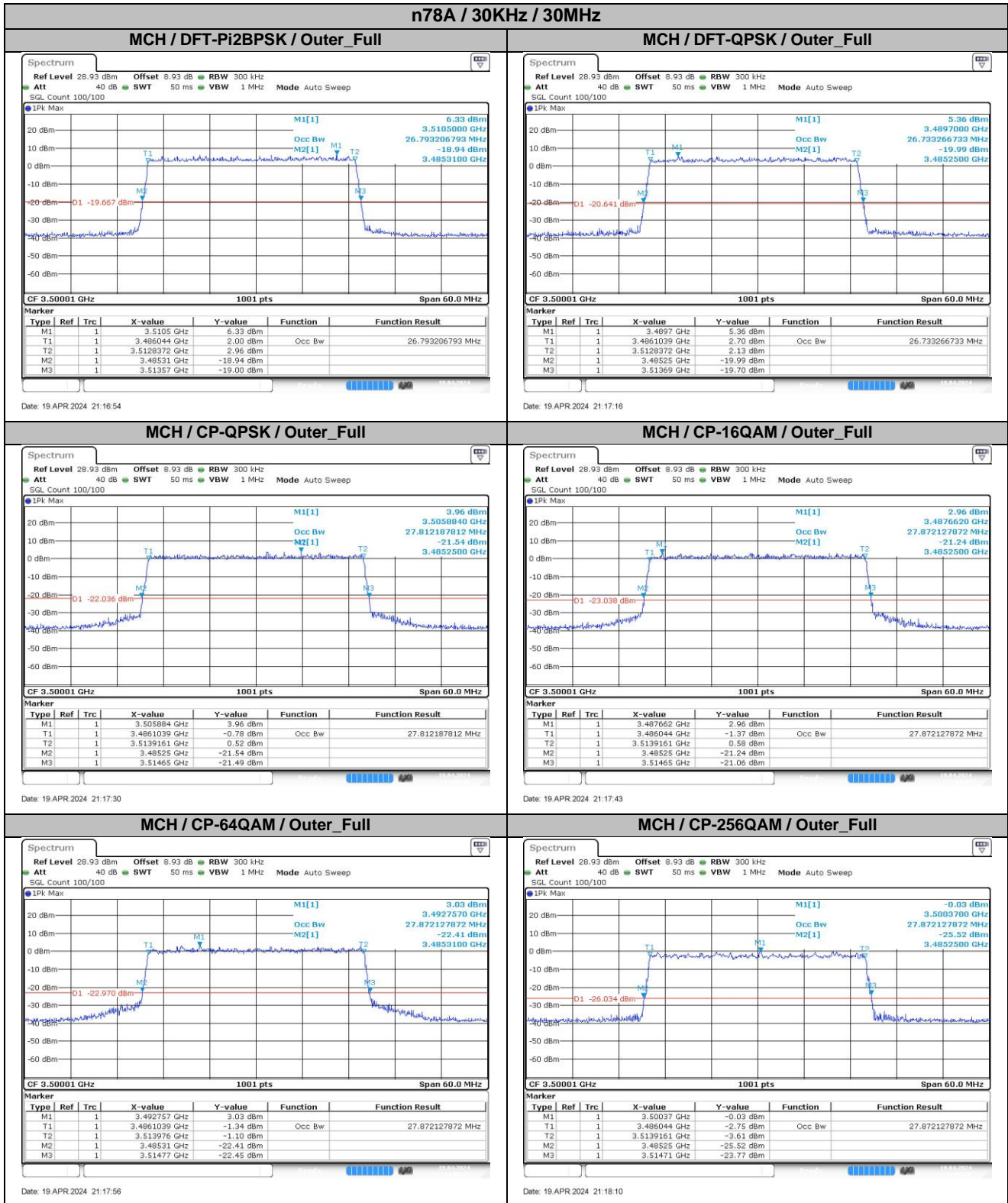
4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

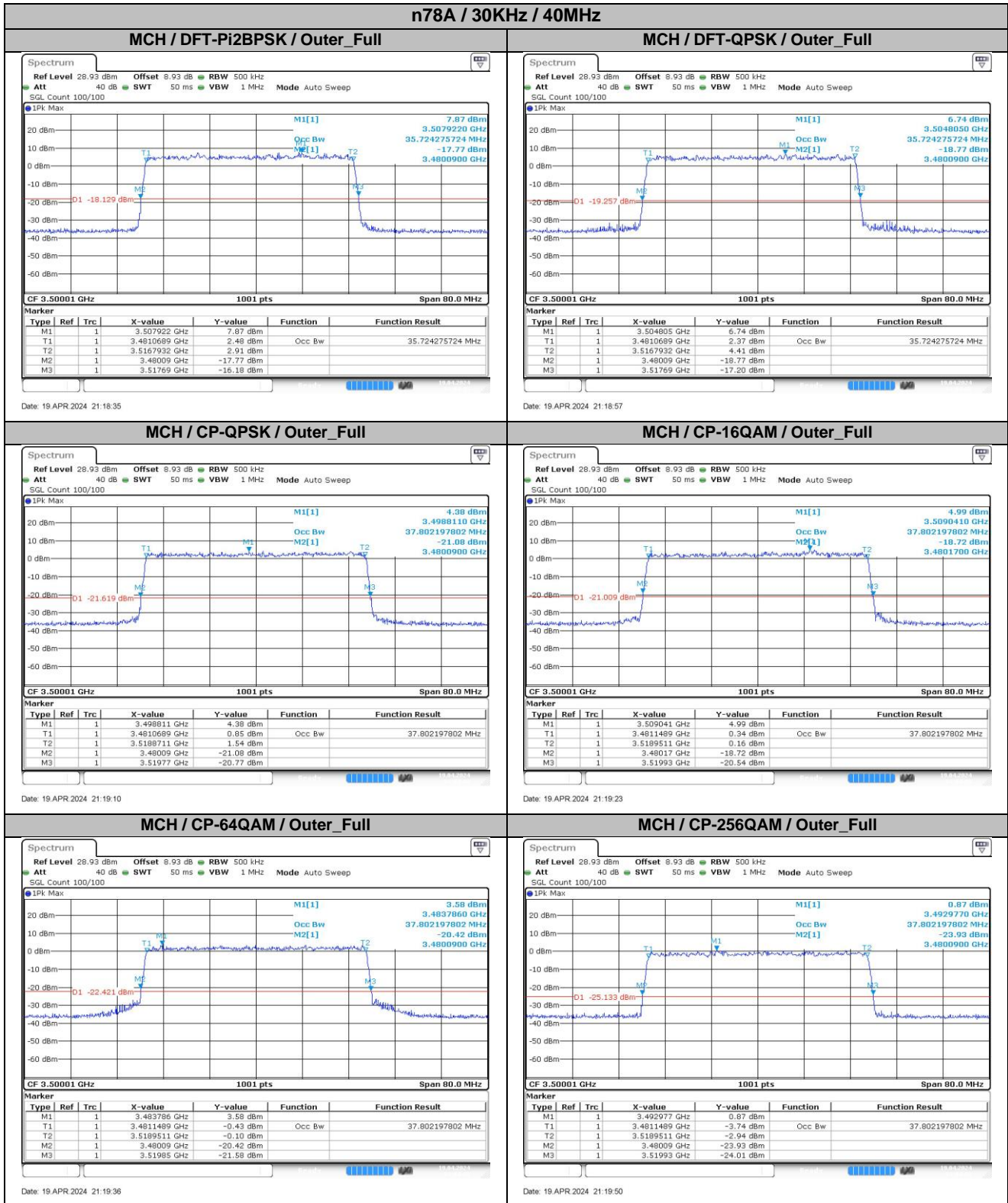
4.1. Test Results

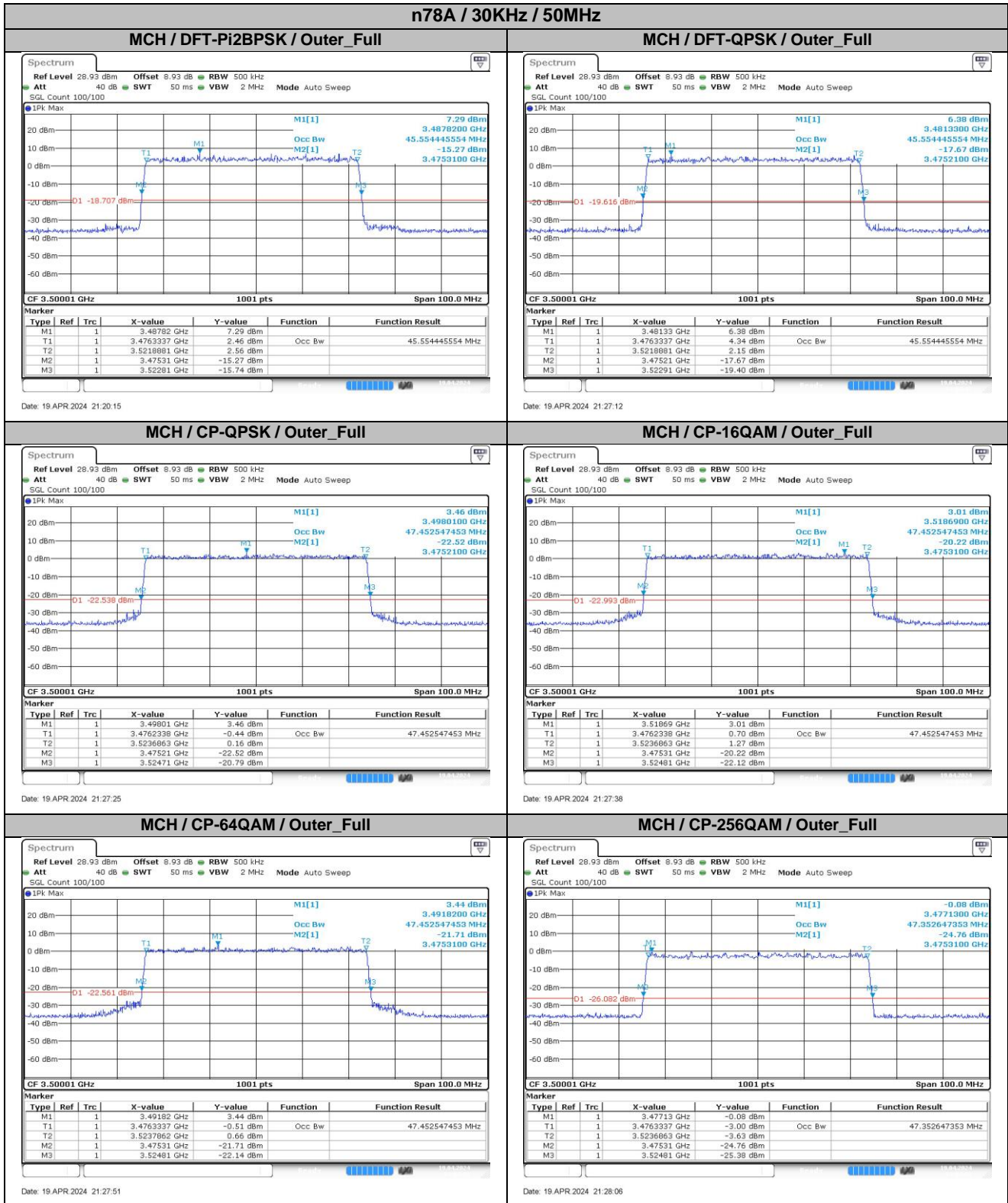
SCS	Bandwidth	Modulation	RB Config	99% Occupied Bandwidth (MHz)	26dB Emission Bandwidth (MHz)	Verdict
30KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.82	19.16	Pass
30KHz	20MHz	DFT-QPSK	Outer_Full	17.82	19.28	Pass
30KHz	20MHz	CP-QPSK	Outer_Full	18.18	19.36	Pass
30KHz	20MHz	CP-16QAM	Outer_Full	18.18	19.44	Pass
30KHz	20MHz	CP-64QAM	Outer_Full	18.18	19.36	Pass
30KHz	20MHz	CP-256QAM	Outer_Full	18.18	19.56	Pass
30KHz	30MHz	DFT-Pi2BPSK	Outer_Full	26.79	28.26	Pass
30KHz	30MHz	DFT-QPSK	Outer_Full	26.73	28.44	Pass
30KHz	30MHz	CP-QPSK	Outer_Full	27.81	29.40	Pass
30KHz	30MHz	CP-16QAM	Outer_Full	27.87	29.40	Pass
30KHz	30MHz	CP-64QAM	Outer_Full	27.87	29.46	Pass
30KHz	30MHz	CP-256QAM	Outer_Full	27.87	29.46	Pass
30KHz	40MHz	DFT-Pi2BPSK	Outer_Full	35.72	37.60	Pass
30KHz	40MHz	DFT-QPSK	Outer_Full	35.72	37.60	Pass
30KHz	40MHz	CP-QPSK	Outer_Full	37.80	39.68	Pass
30KHz	40MHz	CP-16QAM	Outer_Full	37.80	39.76	Pass
30KHz	40MHz	CP-64QAM	Outer_Full	37.80	39.76	Pass
30KHz	40MHz	CP-256QAM	Outer_Full	37.80	39.84	Pass
30KHz	50MHz	DFT-Pi2BPSK	Outer_Full	45.55	47.50	Pass
30KHz	50MHz	DFT-QPSK	Outer_Full	45.55	47.70	Pass
30KHz	50MHz	CP-QPSK	Outer_Full	47.45	49.50	Pass
30KHz	50MHz	CP-16QAM	Outer_Full	47.45	49.50	Pass
30KHz	50MHz	CP-64QAM	Outer_Full	47.45	49.50	Pass
30KHz	50MHz	CP-256QAM	Outer_Full	47.35	49.50	Pass
30KHz	60MHz	DFT-Pi2BPSK	Outer_Full	57.66	60.00	Pass
30KHz	60MHz	DFT-QPSK	Outer_Full	57.78	59.88	Pass
30KHz	60MHz	CP-QPSK	Outer_Full	57.66	59.64	Pass
30KHz	60MHz	CP-16QAM	Outer_Full	57.90	60.00	Pass
30KHz	60MHz	CP-64QAM	Outer_Full	57.78	59.88	Pass
30KHz	60MHz	CP-256QAM	Outer_Full	57.66	59.88	Pass
30KHz	70MHz	DFT-Pi2BPSK	Outer_Full	64.20	66.22	Pass
30KHz	70MHz	DFT-QPSK	Outer_Full	64.20	66.36	Pass
30KHz	70MHz	CP-QPSK	Outer_Full	67.41	69.72	Pass
30KHz	70MHz	CP-16QAM	Outer_Full	67.41	69.86	Pass
30KHz	70MHz	CP-64QAM	Outer_Full	67.27	69.58	Pass
30KHz	70MHz	CP-256QAM	Outer_Full	67.41	69.72	Pass
30KHz	80MHz	DFT-Pi2BPSK	Outer_Full	76.88	80.00	Pass
30KHz	80MHz	DFT-QPSK	Outer_Full	77.20	80.32	Pass
30KHz	80MHz	CP-QPSK	Outer_Full	77.36	80.48	Pass
30KHz	80MHz	CP-16QAM	Outer_Full	77.52	80.48	Pass
30KHz	80MHz	CP-64QAM	Outer_Full	77.52	80.48	Pass
30KHz	80MHz	CP-256QAM	Outer_Full	77.36	80.32	Pass
30KHz	90MHz	DFT-Pi2BPSK	Outer_Full	86.67	89.64	Pass
30KHz	90MHz	DFT-QPSK	Outer_Full	86.49	89.82	Pass
30KHz	90MHz	CP-QPSK	Outer_Full	87.39	90.72	Pass
30KHz	90MHz	CP-16QAM	Outer_Full	87.21	90.72	Pass
30KHz	90MHz	CP-64QAM	Outer_Full	87.21	90.54	Pass
30KHz	90MHz	CP-256QAM	Outer_Full	87.57	90.36	Pass
30KHz	100MHz	DFT-Pi2BPSK	Outer_Full	96.30	99.80	Pass
30KHz	100MHz	DFT-QPSK	Outer_Full	96.30	99.60	Pass
30KHz	100MHz	CP-QPSK	Outer_Full	97.10	100.60	Pass
30KHz	100MHz	CP-16QAM	Outer_Full	97.10	100.80	Pass
30KHz	100MHz	CP-64QAM	Outer_Full	97.30	100.60	Pass
30KHz	100MHz	CP-256QAM	Outer_Full	97.30	100.80	Pass

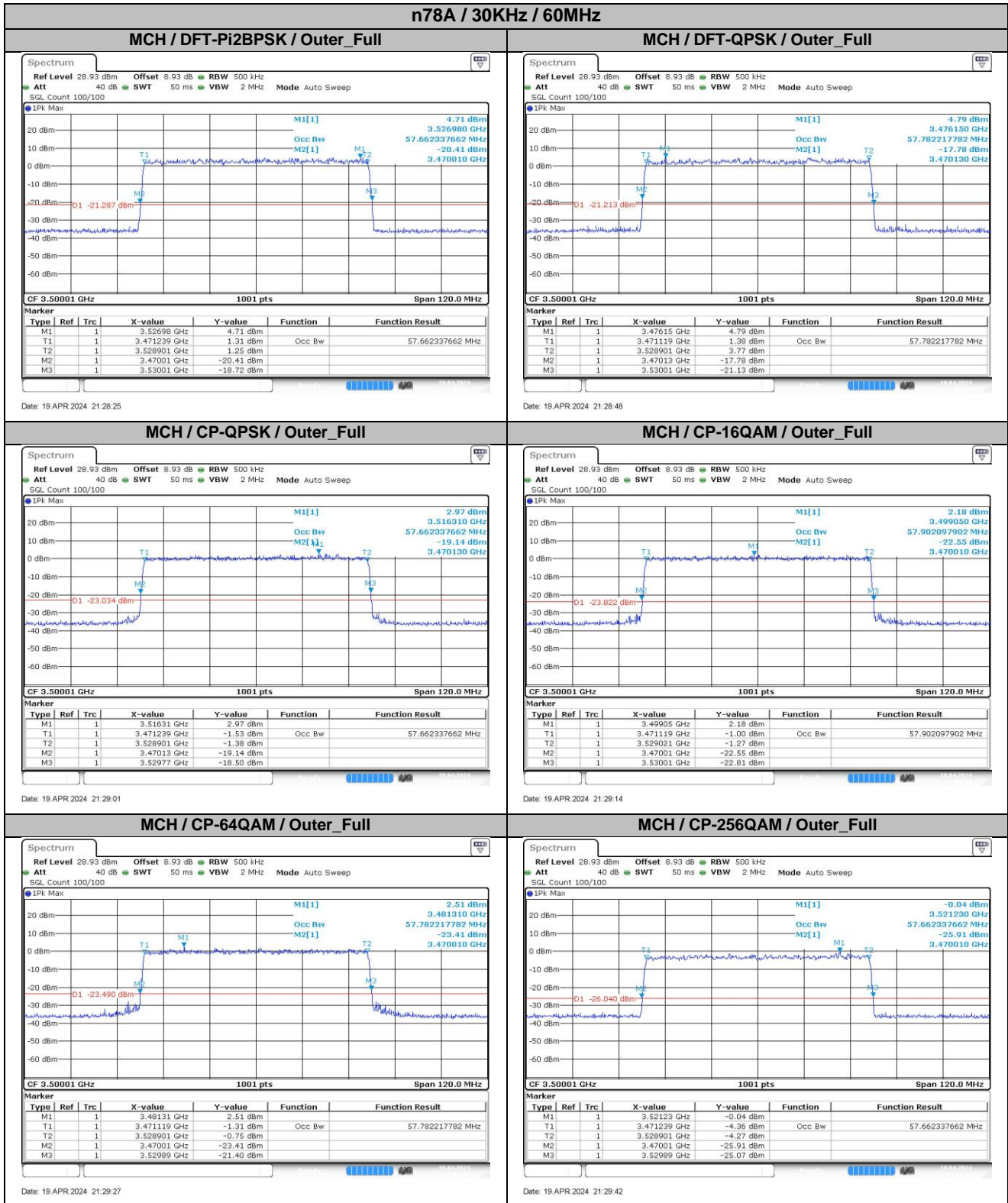
4.2. Test Plots

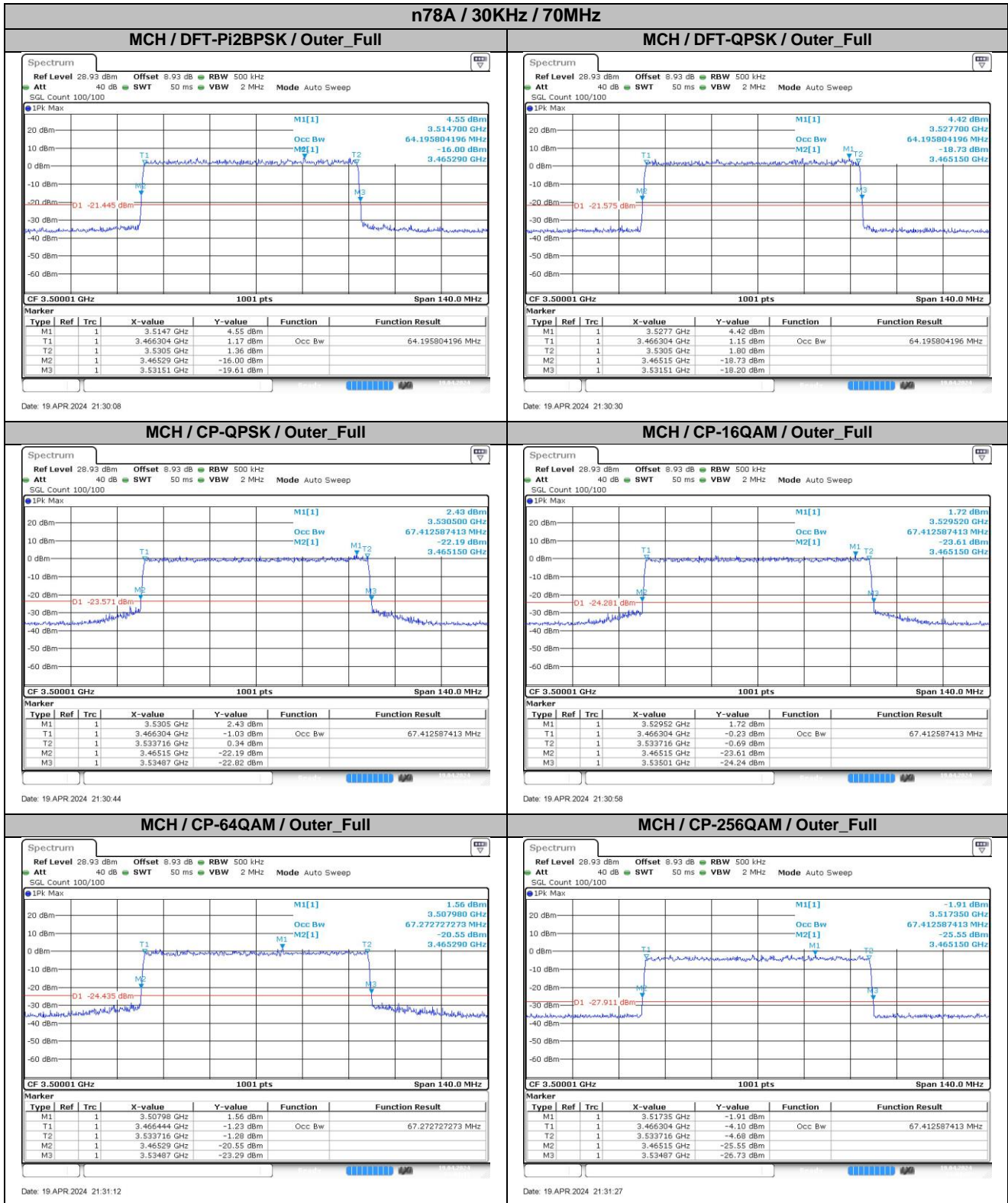


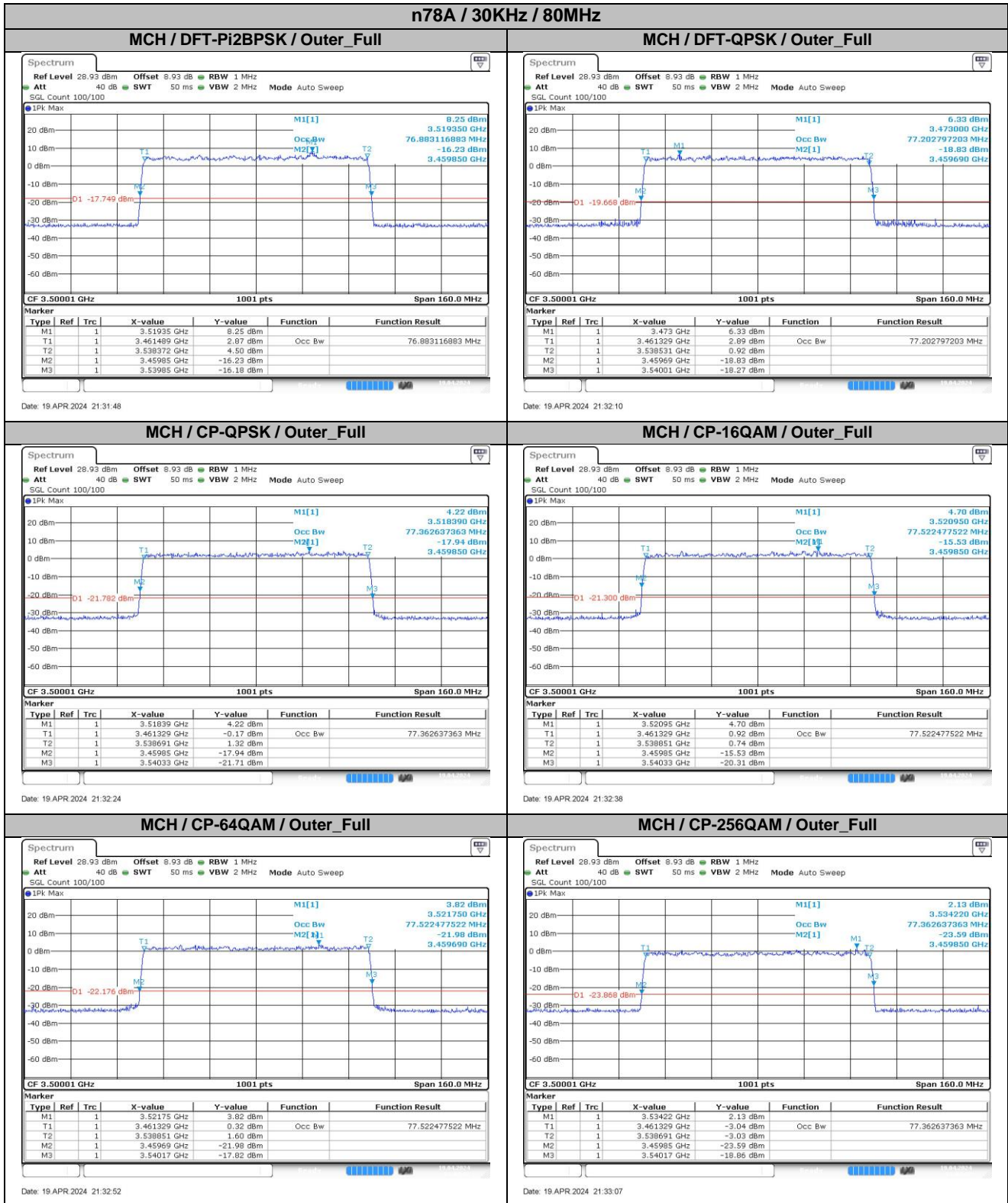


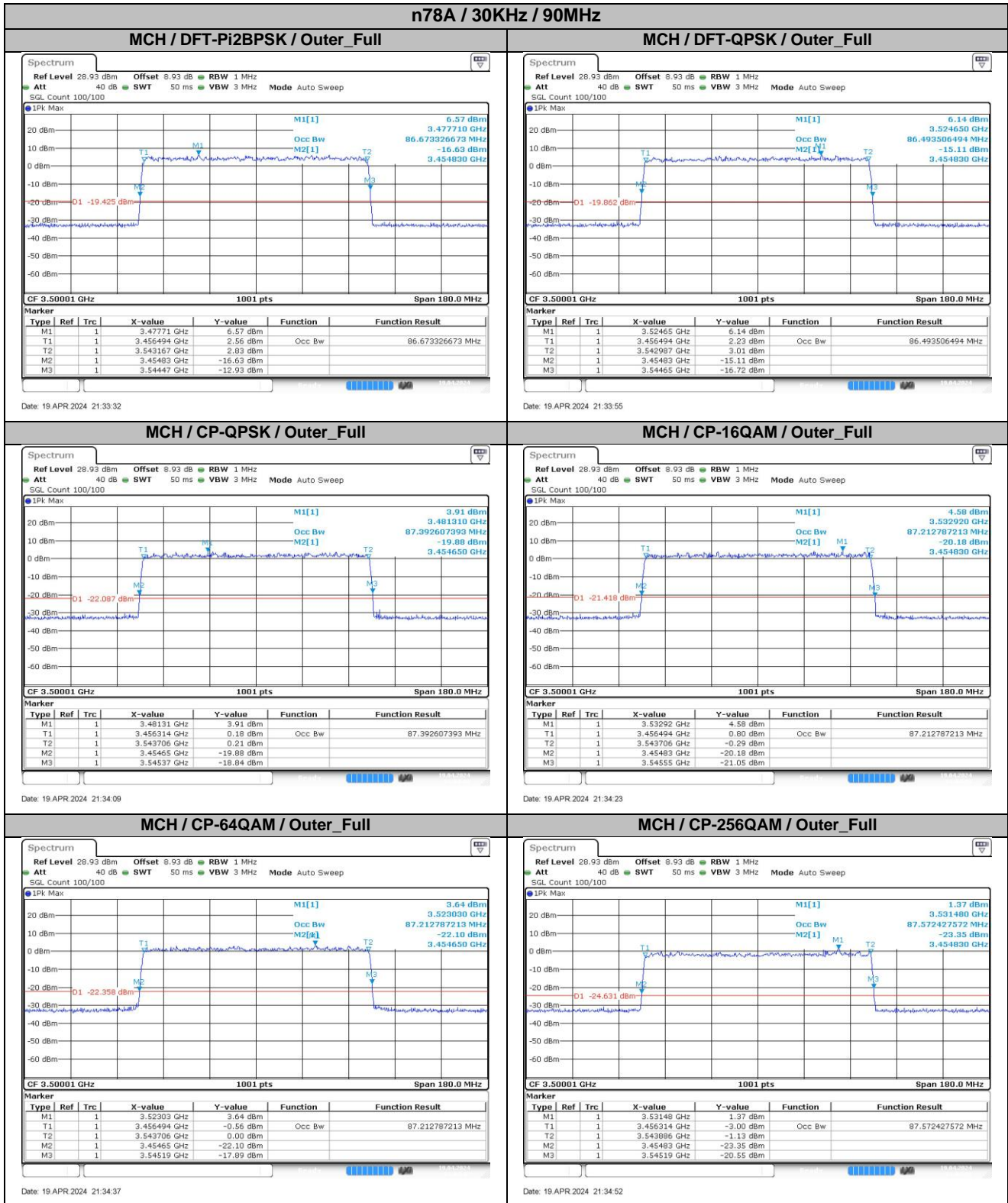


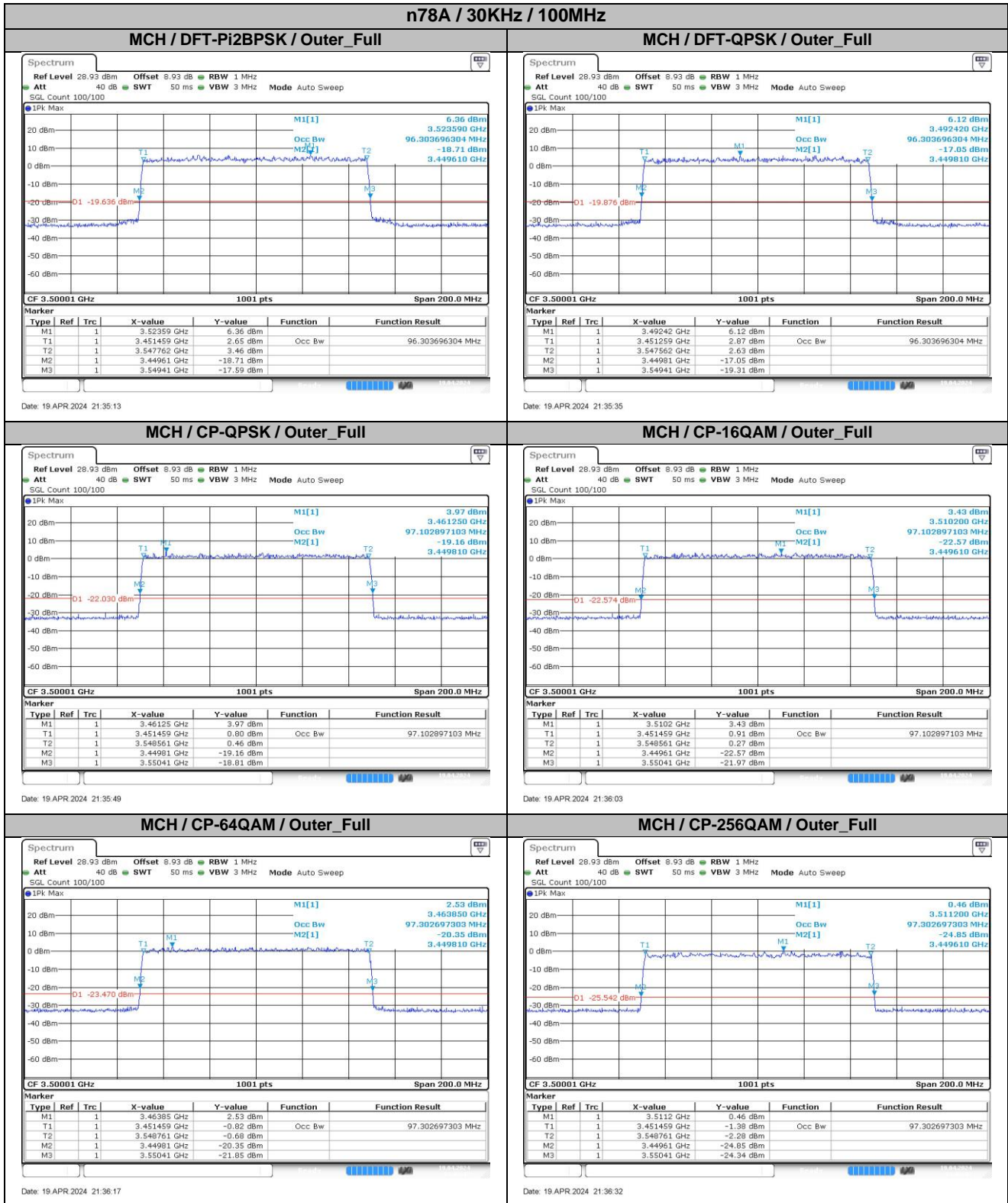












5. Conducted Band Edges

5.1. Test Plots

