

**Appendix
for
n77A (UL MIMO)
(3700-3980)**

Catalogue

- 1. EFFECTIVE ISOTROPIC RADIATED POWER 3**
 - 1.1. TEST RESULTS @ ANT4 (ANTENNA GAIN=-1.89DBI) + ANT6 (ANTENNA GAIN=-2.96DBI) 3
- 2. PEAK-TO-AVERAGE RATIO 7**
 - 2.1. TEST RESULTS 7
 - 2.2. TEST PLOTS FOR ANT4 7
 - 2.3. TEST PLOTS FOR ANT6 8
- 3. MODULATION CHARACTERISTICS 9**
 - 3.1. TEST PLOTS 9
- 4. 99% OCCUPIED BANDWIDTH & 26DB EMISSION BANDWIDTH 11**
 - 4.1. TEST RESULTS 11
 - 4.2. TEST PLOTS FOR ANT4 12
 - 4.3. TEST PLOTS FOR ANT6 24
- 5. CONDUCTED BAND EDGES 37**
 - 5.1. TEST PLOTS FOR ANT4 37
 - 5.2. TEST PLOTS FOR ANT6 50
- 6. CONDUCTED SPURIOUS EMISSION 63**
 - 6.1. TEST PLOTS 63
- 7. FREQUENCY STABILITY 82**
 - 7.1. TEST RESULTS FOR ANT4 82
 - 7.2. TEST RESULTS FOR ANT6 82

1. Effective Isotropic Radiated Power

1.1. Test Results @ Ant4 (Antenna Gain=-1.89dBi) + Ant6 (Antenna Gain=-2.96dBi)

SCS	Bandwidth	Channel	Modulation	Conducted Result (dBm)						Maximum (dBm)		Limit (dBm)	Verdict
				Inner_1RB_Left		Inner_1RB_Right		Inner_Full		SUM	EIRP		
				Ant4	Ant6	Ant4	Ant6	Ant4	Ant6				
15KHz	10MHz	LCH	CP-QPSK	18.17	18.39	18.31	18.58	18.13	18.44	21.46	19.05	30.00	Pass
15KHz	10MHz	LCH	CP-16QAM	17.58	17.81	17.70	18.04	17.62	17.92	20.88	18.47	30.00	Pass
15KHz	10MHz	LCH	CP-64QAM	16.18	16.14	16.34	16.35	16.11	16.42	19.36	16.99	30.00	Pass
15KHz	10MHz	LCH	CP-256QAM	13.21	13.64	13.36	13.75	13.11	13.39	16.57	14.15	30.00	Pass
15KHz	10MHz	MCH	CP-QPSK	18.45	18.56	18.48	18.61	18.30	18.50	21.56	19.16	30.00	Pass
15KHz	10MHz	MCH	CP-16QAM	17.79	18.07	17.96	17.97	17.85	17.99	20.98	18.63	30.00	Pass
15KHz	10MHz	MCH	CP-64QAM	16.41	16.38	16.41	16.40	16.35	16.52	19.45	17.08	30.00	Pass
15KHz	10MHz	MCH	CP-256QAM	13.44	13.79	13.65	13.77	13.28	13.49	16.72	14.33	30.00	Pass
15KHz	10MHz	HCH	CP-QPSK	18.32	18.14	18.36	18.41	18.30	18.23	21.40	19.00	30.00	Pass
15KHz	10MHz	HCH	CP-16QAM	17.70	17.72	17.79	17.80	17.79	17.68	20.81	18.41	30.00	Pass
15KHz	10MHz	HCH	CP-64QAM	16.43	15.99	16.46	16.18	16.30	16.16	19.33	16.96	30.00	Pass
15KHz	10MHz	HCH	CP-256QAM	13.33	13.44	13.49	13.63	13.20	13.19	16.57	14.17	30.00	Pass
15KHz	15MHz	LCH	CP-QPSK	18.11	18.36	18.35	18.56	18.10	18.41	21.47	19.06	30.00	Pass
15KHz	15MHz	LCH	CP-16QAM	17.47	17.86	17.70	17.98	17.62	17.98	20.85	18.44	30.00	Pass
15KHz	15MHz	LCH	CP-64QAM	16.13	16.13	16.27	16.38	16.11	16.45	19.34	16.97	30.00	Pass
15KHz	15MHz	LCH	CP-256QAM	13.10	13.59	13.34	13.79	13.15	13.37	16.58	14.16	30.00	Pass
15KHz	15MHz	MCH	CP-QPSK	18.38	18.60	18.46	18.67	18.30	18.45	21.58	19.17	30.00	Pass
15KHz	15MHz	MCH	CP-16QAM	17.74	18.06	17.84	18.08	17.82	18.00	20.97	18.57	30.00	Pass
15KHz	15MHz	MCH	CP-64QAM	16.43	16.35	16.44	16.42	16.29	16.50	19.44	17.08	30.00	Pass
15KHz	15MHz	MCH	CP-256QAM	13.37	13.81	13.44	13.88	13.31	13.44	16.68	14.26	30.00	Pass
15KHz	15MHz	HCH	CP-QPSK	18.16	18.15	18.36	18.34	18.13	18.06	21.36	18.97	30.00	Pass
15KHz	15MHz	HCH	CP-16QAM	17.58	17.67	17.77	17.72	17.67	17.61	20.76	18.37	30.00	Pass
15KHz	15MHz	HCH	CP-64QAM	16.26	16.00	16.27	16.09	16.13	16.09	19.19	16.81	30.00	Pass
15KHz	15MHz	HCH	CP-256QAM	13.16	13.39	13.35	13.51	13.14	13.01	16.44	14.04	30.00	Pass
15KHz	20MHz	LCH	CP-QPSK	18.05	18.34	18.39	18.68	18.18	18.52	21.55	19.14	30.00	Pass
15KHz	20MHz	LCH	CP-16QAM	17.42	17.75	17.76	18.06	17.65	17.94	20.92	18.51	30.00	Pass
15KHz	20MHz	LCH	CP-64QAM	16.16	16.10	16.37	16.49	16.15	16.40	19.44	17.04	30.00	Pass
15KHz	20MHz	LCH	CP-256QAM	13.04	13.47	13.37	13.81	13.19	13.45	16.61	14.19	30.00	Pass
15KHz	20MHz	MCH	CP-QPSK	18.35	18.61	18.52	18.67	18.28	18.47	21.61	19.20	30.00	Pass
15KHz	20MHz	MCH	CP-16QAM	17.65	18.01	17.89	18.07	17.80	17.95	20.99	18.59	30.00	Pass
15KHz	20MHz	MCH	CP-64QAM	16.42	16.45	16.44	16.45	16.31	16.50	19.46	17.08	30.00	Pass
15KHz	20MHz	MCH	CP-256QAM	13.43	13.79	13.58	13.78	13.36	13.50	16.69	14.29	30.00	Pass
15KHz	20MHz	HCH	CP-QPSK	18.17	18.25	18.28	18.41	18.07	18.07	21.36	18.96	30.00	Pass
15KHz	20MHz	HCH	CP-16QAM	17.50	17.71	17.69	17.75	17.65	17.60	20.73	18.33	30.00	Pass
15KHz	20MHz	HCH	CP-64QAM	16.16	16.01	16.30	16.13	16.09	16.07	19.23	16.84	30.00	Pass
15KHz	20MHz	HCH	CP-256QAM	13.22	13.46	13.43	13.54	13.09	13.08	16.50	14.10	30.00	Pass
15KHz	25MHz	LCH	CP-QPSK	18.12	18.21	18.27	18.58	18.22	18.45	21.44	19.03	30.00	Pass
15KHz	25MHz	LCH	CP-16QAM	17.46	17.72	17.73	17.97	17.71	17.98	20.86	18.46	30.00	Pass
15KHz	25MHz	LCH	CP-64QAM	16.09	16.00	16.30	16.38	16.21	16.45	19.35	16.98	30.00	Pass
15KHz	25MHz	LCH	CP-256QAM	13.15	13.44	13.32	13.81	13.27	13.49	16.58	14.16	30.00	Pass
15KHz	25MHz	MCH	CP-QPSK	18.35	18.56	18.45	18.63	18.36	18.51	21.55	19.15	30.00	Pass
15KHz	25MHz	MCH	CP-16QAM	17.67	18.06	17.85	17.95	17.79	18.01	20.91	18.56	30.00	Pass
15KHz	25MHz	MCH	CP-64QAM	16.32	16.34	16.46	16.40	16.36	16.50	19.44	17.10	30.00	Pass
15KHz	25MHz	MCH	CP-256QAM	13.33	13.79	13.42	13.83	13.35	13.51	16.64	14.22	30.00	Pass
15KHz	25MHz	HCH	CP-QPSK	18.17	18.27	18.33	18.36	18.18	18.10	21.36	18.96	30.00	Pass
15KHz	25MHz	HCH	CP-16QAM	17.43	17.70	17.76	17.83	17.72	17.71	20.81	18.41	30.00	Pass
15KHz	25MHz	HCH	CP-64QAM	16.14	16.07	16.44	16.11	16.13	16.10	19.29	16.92	30.00	Pass
15KHz	25MHz	HCH	CP-256QAM	13.18	13.45	13.39	13.57	13.22	13.12	16.49	14.09	30.00	Pass
15KHz	30MHz	LCH	CP-QPSK	18.10	18.19	18.28	18.74	18.20	18.52	21.53	19.11	30.00	Pass
15KHz	30MHz	LCH	CP-16QAM	17.40	17.69	17.70	18.20	17.72	18.05	20.97	18.56	30.00	Pass
15KHz	30MHz	LCH	CP-64QAM	16.17	16.01	16.46	16.56	16.23	16.57	19.52	17.13	30.00	Pass
15KHz	30MHz	LCH	CP-256QAM	13.02	13.39	13.35	13.91	13.26	13.52	16.65	14.22	30.00	Pass
15KHz	30MHz	MCH	CP-QPSK	18.26	18.53	18.46	18.71	18.40	18.56	21.60	19.19	30.00	Pass
15KHz	30MHz	MCH	CP-16QAM	17.67	18.04	17.92	18.13	17.82	18.02	21.04	18.63	30.00	Pass
15KHz	30MHz	MCH	CP-64QAM	16.39	16.34	16.48	16.49	16.29	16.49	19.50	17.10	30.00	Pass
15KHz	30MHz	MCH	CP-256QAM	13.27	13.73	13.45	13.88	13.34	13.47	16.68	14.26	30.00	Pass
15KHz	30MHz	HCH	CP-QPSK	18.13	18.23	18.30	18.29	18.11	18.09	21.31	18.91	30.00	Pass
15KHz	30MHz	HCH	CP-16QAM	17.55	17.69	17.73	17.73	17.62	17.57	20.74	18.35	30.00	Pass
15KHz	30MHz	HCH	CP-64QAM	16.19	16.07	16.29	16.06	16.07	16.08	19.19	16.82	30.00	Pass
15KHz	30MHz	HCH	CP-256QAM	13.17	13.49	13.29	13.49	13.09	13.03	16.40	14.00	30.00	Pass

15KHz	40MHz	LCH	CP-QPSK	18.04	18.17	18.20	18.73	18.21	18.66	21.48	19.06	30.00	Pass
15KHz	40MHz	LCH	CP-16QAM	17.40	17.62	17.59	18.08	17.76	18.10	20.94	18.53	30.00	Pass
15KHz	40MHz	LCH	CP-64QAM	16.00	15.88	16.17	16.44	16.21	16.61	19.42	17.01	30.00	Pass
15KHz	40MHz	LCH	CP-256QAM	13.23	13.42	13.33	13.88	13.22	13.60	16.62	14.20	30.00	Pass
15KHz	40MHz	MCH	CP-QPSK	18.19	18.49	18.42	18.64	18.35	18.53	21.54	19.14	30.00	Pass
15KHz	40MHz	MCH	CP-16QAM	17.55	18.00	17.77	18.10	17.89	18.00	20.96	18.60	30.00	Pass
15KHz	40MHz	MCH	CP-64QAM	16.26	16.34	16.42	16.42	16.34	16.49	19.43	17.07	30.00	Pass
15KHz	40MHz	MCH	CP-256QAM	13.27	13.71	13.49	13.82	13.37	13.53	16.67	14.26	30.00	Pass
15KHz	40MHz	HCH	CP-QPSK	18.13	18.09	18.38	18.34	18.12	18.13	21.37	18.98	30.00	Pass
15KHz	40MHz	HCH	CP-16QAM	17.52	17.56	17.66	17.69	17.68	17.64	20.69	18.30	30.00	Pass
15KHz	40MHz	HCH	CP-64QAM	16.12	15.88	16.28	16.05	16.17	16.12	19.18	16.83	30.00	Pass
15KHz	40MHz	HCH	CP-256QAM	13.24	13.46	13.41	13.56	13.14	13.14	16.50	14.09	30.00	Pass
15KHz	50MHz	LCH	CP-QPSK	17.92	18.01	18.19	18.58	18.23	18.63	21.44	19.03	30.00	Pass
15KHz	50MHz	LCH	CP-16QAM	17.33	17.48	17.67	18.05	17.74	18.12	20.94	18.53	30.00	Pass
15KHz	50MHz	LCH	CP-64QAM	15.97	16.15	16.08	16.62	16.25	16.64	19.46	17.04	30.00	Pass
15KHz	50MHz	LCH	CP-256QAM	13.07	13.38	13.23	13.81	13.22	13.64	16.54	14.11	30.00	Pass
15KHz	50MHz	MCH	CP-QPSK	18.03	18.31	18.23	18.47	18.34	18.54	21.45	19.05	30.00	Pass
15KHz	50MHz	MCH	CP-16QAM	17.53	17.82	17.73	17.88	17.83	18.04	20.95	18.54	30.00	Pass
15KHz	50MHz	MCH	CP-64QAM	16.02	16.45	16.17	16.50	16.32	16.56	19.45	17.05	30.00	Pass
15KHz	50MHz	MCH	CP-256QAM	13.12	13.57	13.33	13.71	13.29	13.51	16.53	14.12	30.00	Pass
15KHz	50MHz	HCH	CP-QPSK	18.00	18.00	18.20	18.10	18.12	18.20	21.17	18.82	30.00	Pass
15KHz	50MHz	HCH	CP-16QAM	17.39	17.48	17.64	17.61	17.61	17.71	20.67	18.29	30.00	Pass
15KHz	50MHz	HCH	CP-64QAM	15.93	16.06	16.19	16.15	16.12	16.22	19.18	16.82	30.00	Pass
15KHz	50MHz	HCH	CP-256QAM	12.87	13.10	13.03	13.22	13.12	13.24	16.19	13.79	30.00	Pass
30KHz	10MHz	LCH	CP-QPSK	17.96	18.25	18.13	18.42	18.01	18.38	21.29	18.88	30.00	Pass
30KHz	10MHz	LCH	CP-16QAM	17.42	17.79	17.43	18.00	17.48	17.82	20.73	18.33	30.00	Pass
30KHz	10MHz	LCH	CP-64QAM	15.89	16.08	16.09	16.24	16.15	16.42	19.30	16.89	30.00	Pass
30KHz	10MHz	LCH	CP-256QAM	12.98	13.47	13.04	13.71	13.28	13.43	16.40	14.09	30.00	Pass
30KHz	10MHz	MCH	CP-QPSK	18.10	18.31	18.28	18.46	18.29	18.51	21.41	19.01	30.00	Pass
30KHz	10MHz	MCH	CP-16QAM	17.66	18.05	17.66	17.70	17.72	18.00	20.87	18.49	30.00	Pass
30KHz	10MHz	MCH	CP-64QAM	16.19	16.30	16.16	16.27	16.28	16.39	19.35	16.95	30.00	Pass
30KHz	10MHz	MCH	CP-256QAM	13.14	13.56	13.18	13.70	13.55	13.46	16.52	14.23	30.00	Pass
30KHz	10MHz	HCH	CP-QPSK	18.01	18.03	18.07	18.08	18.07	18.13	21.11	18.71	30.00	Pass
30KHz	10MHz	HCH	CP-16QAM	17.64	17.45	17.73	17.74	17.73	17.69	20.75	18.35	30.00	Pass
30KHz	10MHz	HCH	CP-64QAM	16.11	15.92	16.20	16.05	16.26	16.09	19.19	16.80	30.00	Pass
30KHz	10MHz	HCH	CP-256QAM	13.06	13.26	13.14	13.42	13.30	13.11	16.29	13.97	30.00	Pass
30KHz	15MHz	LCH	CP-QPSK	17.87	18.22	18.13	18.45	18.14	18.47	21.32	18.91	30.00	Pass
30KHz	15MHz	LCH	CP-16QAM	17.36	17.78	17.57	18.10	17.57	17.85	20.85	18.43	30.00	Pass
30KHz	15MHz	LCH	CP-64QAM	15.90	16.10	16.15	16.34	16.15	16.44	19.31	16.90	30.00	Pass
30KHz	15MHz	LCH	CP-256QAM	12.83	13.33	13.07	13.72	13.13	13.47	16.42	14.02	30.00	Pass
30KHz	15MHz	MCH	CP-QPSK	18.06	18.36	18.23	18.47	18.34	18.51	21.44	19.03	30.00	Pass
30KHz	15MHz	MCH	CP-16QAM	17.62	18.04	17.77	18.05	17.75	17.92	20.92	18.51	30.00	Pass
30KHz	15MHz	MCH	CP-64QAM	16.13	16.36	16.16	16.30	16.31	16.44	19.39	16.99	30.00	Pass
30KHz	15MHz	MCH	CP-256QAM	13.17	13.17	13.20	13.76	13.38	13.63	16.52	14.17	30.00	Pass
30KHz	15MHz	HCH	CP-QPSK	17.90	18.01	18.08	18.13	18.22	18.18	21.21	18.82	30.00	Pass
30KHz	15MHz	HCH	CP-16QAM	17.45	17.60	17.65	17.64	17.72	17.52	20.66	18.30	30.00	Pass
30KHz	15MHz	HCH	CP-64QAM	15.94	15.78	16.16	16.02	16.17	16.09	19.14	16.75	30.00	Pass
30KHz	15MHz	HCH	CP-256QAM	12.95	13.21	12.99	13.36	13.09	13.10	16.19	13.83	30.00	Pass
30KHz	20MHz	LCH	CP-QPSK	17.88	18.18	18.17	18.53	18.13	18.40	21.36	18.95	30.00	Pass
30KHz	20MHz	LCH	CP-16QAM	17.38	17.83	17.76	18.04	17.67	17.97	20.91	18.50	30.00	Pass
30KHz	20MHz	LCH	CP-64QAM	15.92	16.14	16.18	16.48	16.10	16.42	19.34	16.93	30.00	Pass
30KHz	20MHz	LCH	CP-256QAM	12.87	13.46	13.11	13.80	13.18	13.50	16.48	14.08	30.00	Pass
30KHz	20MHz	MCH	CP-QPSK	18.14	18.37	18.25	18.45	18.31	18.44	21.39	18.99	30.00	Pass
30KHz	20MHz	MCH	CP-16QAM	17.64	17.98	17.83	18.12	17.89	18.00	20.99	18.61	30.00	Pass
30KHz	20MHz	MCH	CP-64QAM	16.13	16.39	16.28	16.43	16.25	16.49	19.38	16.99	30.00	Pass
30KHz	20MHz	MCH	CP-256QAM	12.99	13.71	13.23	13.77	13.34	13.56	16.52	14.15	30.00	Pass
30KHz	20MHz	HCH	CP-QPSK	18.01	18.08	18.10	18.20	18.22	18.15	21.20	18.83	30.00	Pass
30KHz	20MHz	HCH	CP-16QAM	17.53	17.48	17.66	17.85	17.70	17.64	20.77	18.38	30.00	Pass
30KHz	20MHz	HCH	CP-64QAM	15.95	15.95	16.09	16.04	16.17	16.18	19.19	16.79	30.00	Pass
30KHz	20MHz	HCH	CP-256QAM	12.88	13.25	13.07	13.38	13.15	13.13	16.24	13.87	30.00	Pass
30KHz	25MHz	LCH	CP-QPSK	18.19	18.42	18.13	18.50	18.14	18.38	21.33	18.95	30.00	Pass
30KHz	25MHz	LCH	CP-16QAM	17.39	17.72	17.54	18.05	17.83	17.96	20.91	18.55	30.00	Pass
30KHz	25MHz	LCH	CP-64QAM	15.91	15.99	16.19	16.44	16.24	16.43	19.35	16.95	30.00	Pass
30KHz	25MHz	LCH	CP-256QAM	12.87	13.43	13.07	13.73	13.20	13.52	16.42	14.06	30.00	Pass
30KHz	25MHz	MCH	CP-QPSK	18.13	18.33	18.37	18.45	18.38	18.51	21.46	19.06	30.00	Pass
30KHz	25MHz	MCH	CP-16QAM	17.71	18.04	17.75	18.14	17.87	18.03	20.96	18.61	30.00	Pass

30KHz	25MHz	MCH	CP-64QAM	16.13	16.29	16.24	16.38	16.33	16.46	19.41	17.01	30.00	Pass
30KHz	25MHz	MCH	CP-256QAM	13.00	13.64	13.18	13.77	13.39	13.53	16.50	14.18	30.00	Pass
30KHz	25MHz	HCH	CP-QPSK	17.95	18.09	18.12	18.08	18.19	18.02	21.12	18.76	30.00	Pass
30KHz	25MHz	HCH	CP-16QAM	17.47	17.75	17.61	17.79	17.64	17.62	20.71	18.32	30.00	Pass
30KHz	25MHz	HCH	CP-64QAM	15.97	16.03	16.11	16.01	16.19	16.11	19.16	16.77	30.00	Pass
30KHz	25MHz	HCH	CP-256QAM	12.90	13.32	13.03	13.43	13.19	13.15	16.24	13.92	30.00	Pass
30KHz	30MHz	LCH	CP-QPSK	17.91	18.03	18.10	18.64	18.28	18.58	21.44	19.06	30.00	Pass
30KHz	30MHz	LCH	CP-16QAM	17.36	17.64	17.62	18.22	17.76	18.06	20.94	18.59	30.00	Pass
30KHz	30MHz	LCH	CP-64QAM	15.97	16.01	16.16	16.57	16.26	16.56	19.42	17.02	30.00	Pass
30KHz	30MHz	LCH	CP-256QAM	12.82	13.32	13.05	13.81	13.22	13.55	16.46	14.11	30.00	Pass
30KHz	30MHz	MCH	CP-QPSK	18.11	18.32	18.25	18.53	18.33	18.47	21.41	19.04	30.00	Pass
30KHz	30MHz	MCH	CP-16QAM	17.55	17.95	17.76	18.08	17.87	18.02	20.96	18.58	30.00	Pass
30KHz	30MHz	MCH	CP-64QAM	16.11	16.28	16.19	16.42	16.29	16.46	19.39	16.98	30.00	Pass
30KHz	30MHz	MCH	CP-256QAM	12.99	13.58	13.13	13.79	13.27	13.55	16.48	14.12	30.00	Pass
30KHz	30MHz	HCH	CP-QPSK	17.95	18.00	18.08	18.16	18.14	18.07	21.13	18.77	30.00	Pass
30KHz	30MHz	HCH	CP-16QAM	17.33	17.67	17.64	17.72	17.66	17.56	20.69	18.30	30.00	Pass
30KHz	30MHz	HCH	CP-64QAM	15.97	15.98	16.03	15.91	16.15	16.06	19.12	16.73	30.00	Pass
30KHz	30MHz	HCH	CP-256QAM	12.83	13.34	12.97	13.36	13.14	13.15	16.18	13.86	30.00	Pass
30KHz	40MHz	LCH	CP-QPSK	17.83	17.99	18.09	18.54	18.23	18.57	21.41	19.00	30.00	Pass
30KHz	40MHz	LCH	CP-16QAM	17.37	17.67	17.62	18.27	17.77	18.10	20.97	18.61	30.00	Pass
30KHz	40MHz	LCH	CP-64QAM	15.85	15.97	16.04	16.47	16.24	16.67	19.47	17.05	30.00	Pass
30KHz	40MHz	LCH	CP-256QAM	12.74	13.27	12.97	13.83	13.22	13.64	16.45	14.12	30.00	Pass
30KHz	40MHz	MCH	CP-QPSK	17.98	18.32	18.24	18.46	18.41	18.50	21.47	19.07	30.00	Pass
30KHz	40MHz	MCH	CP-16QAM	17.43	17.86	17.76	18.11	17.91	18.02	20.98	18.62	30.00	Pass
30KHz	40MHz	MCH	CP-64QAM	15.91	16.25	16.16	16.29	16.34	16.56	19.46	17.06	30.00	Pass
30KHz	40MHz	MCH	CP-256QAM	12.95	13.60	13.21	13.75	13.34	13.57	16.50	14.14	30.00	Pass
30KHz	40MHz	HCH	CP-QPSK	17.98	17.93	18.12	18.07	18.10	18.13	21.13	18.74	30.00	Pass
30KHz	40MHz	HCH	CP-16QAM	17.49	17.58	17.69	17.79	17.64	17.65	20.75	18.35	30.00	Pass
30KHz	40MHz	HCH	CP-64QAM	15.93	15.89	16.12	16.00	16.06	16.19	19.14	16.77	30.00	Pass
30KHz	40MHz	HCH	CP-256QAM	12.92	13.22	13.03	13.27	13.09	13.23	16.17	13.79	30.00	Pass
30KHz	50MHz	LCH	CP-QPSK	17.90	17.98	18.10	18.52	18.31	18.66	21.50	19.09	30.00	Pass
30KHz	50MHz	LCH	CP-16QAM	17.28	17.62	17.50	18.22	17.77	18.12	20.96	18.59	30.00	Pass
30KHz	50MHz	LCH	CP-64QAM	15.82	15.93	16.01	16.43	16.27	16.69	19.50	17.08	30.00	Pass
30KHz	50MHz	LCH	CP-256QAM	12.73	13.19	13.03	13.69	13.32	13.62	16.48	14.10	30.00	Pass
30KHz	50MHz	MCH	CP-QPSK	17.99	18.21	18.18	18.43	18.36	18.53	21.46	19.05	30.00	Pass
30KHz	50MHz	MCH	CP-16QAM	17.41	17.87	17.62	18.06	17.77	18.07	20.93	18.52	30.00	Pass
30KHz	50MHz	MCH	CP-64QAM	15.92	16.16	16.10	16.35	16.33	16.53	19.44	17.04	30.00	Pass
30KHz	50MHz	MCH	CP-256QAM	12.98	13.49	13.07	13.53	13.38	13.54	16.47	14.07	30.00	Pass
30KHz	50MHz	HCH	CP-QPSK	17.81	17.89	18.00	17.99	18.13	18.25	21.20	18.80	30.00	Pass
30KHz	50MHz	HCH	CP-16QAM	17.25	17.50	17.42	17.70	17.61	17.73	20.68	18.28	30.00	Pass
30KHz	50MHz	HCH	CP-64QAM	15.84	15.90	16.10	15.94	16.11	16.21	19.17	16.77	30.00	Pass
30KHz	50MHz	HCH	CP-256QAM	12.82	13.22	13.00	13.23	13.12	13.29	16.22	13.81	30.00	Pass
30KHz	60MHz	LCH	CP-QPSK	17.76	17.89	18.10	18.48	18.19	18.61	21.42	19.00	30.00	Pass
30KHz	60MHz	LCH	CP-16QAM	17.15	17.68	17.45	18.10	17.71	18.14	20.94	18.52	30.00	Pass
30KHz	60MHz	LCH	CP-64QAM	15.71	15.82	16.02	16.40	16.16	16.62	19.41	16.99	30.00	Pass
30KHz	60MHz	LCH	CP-256QAM	12.78	13.20	13.04	13.61	13.22	13.65	16.45	14.03	30.00	Pass
30KHz	60MHz	MCH	CP-QPSK	18.10	18.18	18.24	18.38	18.19	18.46	21.34	18.96	30.00	Pass
30KHz	60MHz	MCH	CP-16QAM	17.67	17.68	17.88	17.83	17.74	17.99	20.88	18.55	30.00	Pass
30KHz	60MHz	MCH	CP-64QAM	16.17	16.14	16.36	16.37	16.23	16.47	19.38	17.03	30.00	Pass
30KHz	60MHz	MCH	CP-256QAM	13.08	13.45	13.31	13.61	13.24	13.54	16.47	14.06	30.00	Pass
30KHz	60MHz	HCH	CP-QPSK	18.07	18.32	18.22	18.28	18.15	18.21	21.26	18.88	30.00	Pass
30KHz	60MHz	HCH	CP-16QAM	17.59	17.63	17.92	17.63	17.66	17.72	20.79	18.45	30.00	Pass
30KHz	60MHz	HCH	CP-64QAM	16.00	15.87	16.25	15.93	16.11	16.26	19.20	16.87	30.00	Pass
30KHz	60MHz	HCH	CP-256QAM	13.13	13.38	13.30	13.39	13.14	13.23	16.36	13.96	30.00	Pass
30KHz	70MHz	LCH	CP-QPSK	17.96	18.11	18.33	18.81	18.29	18.76	21.59	19.17	30.00	Pass
30KHz	70MHz	LCH	CP-16QAM	17.61	17.47	17.94	18.11	17.81	18.24	21.04	18.69	30.00	Pass
30KHz	70MHz	LCH	CP-64QAM	15.93	15.66	16.39	16.33	16.31	16.79	19.57	17.19	30.00	Pass
30KHz	70MHz	LCH	CP-256QAM	13.05	13.32	13.42	13.94	13.33	13.77	16.70	14.27	30.00	Pass
30KHz	70MHz	MCH	CP-QPSK	18.20	18.43	18.08	18.36	18.34	18.56	21.46	19.06	30.00	Pass
30KHz	70MHz	MCH	CP-16QAM	17.78	17.76	17.81	17.70	17.84	18.10	20.98	18.57	30.00	Pass
30KHz	70MHz	MCH	CP-64QAM	16.29	16.03	16.24	16.03	16.27	16.51	19.40	17.01	30.00	Pass
30KHz	70MHz	MCH	CP-256QAM	13.30	13.52	13.24	13.56	13.37	13.58	16.49	14.08	30.00	Pass
30KHz	70MHz	HCH	CP-QPSK	17.88	18.16	18.28	18.34	18.23	18.34	21.32	18.92	30.00	Pass
30KHz	70MHz	HCH	CP-16QAM	17.53	17.58	17.96	17.60	17.69	17.81	20.79	18.51	30.00	Pass
30KHz	70MHz	HCH	CP-64QAM	16.08	15.85	16.39	15.92	16.22	16.36	19.30	17.00	30.00	Pass
30KHz	70MHz	HCH	CP-256QAM	13.06	13.35	13.43	13.47	13.23	13.35	16.46	14.07	30.00	Pass

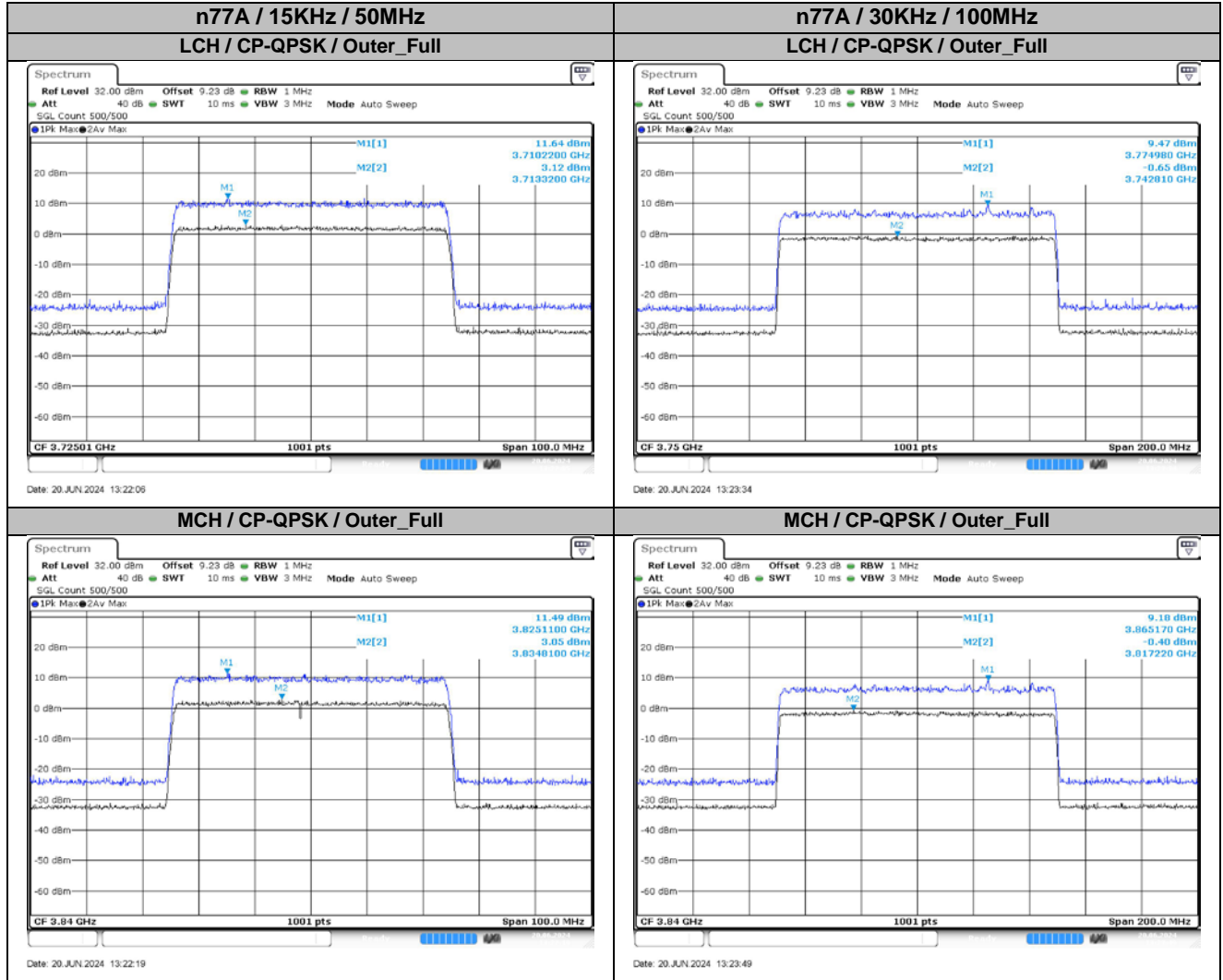
30KHz	80MHz	LCH	CP-QPSK	17.94	18.13	18.56	18.79	18.24	18.71	21.69	19.28	30.00	Pass
30KHz	80MHz	LCH	CP-16QAM	17.58	17.49	18.19	18.11	17.76	18.24	21.16	18.83	30.00	Pass
30KHz	80MHz	LCH	CP-64QAM	16.10	15.65	16.55	16.39	16.24	16.70	19.49	17.23	30.00	Pass
30KHz	80MHz	LCH	CP-256QAM	13.03	13.29	13.62	13.86	13.26	13.72	16.75	14.35	30.00	Pass
30KHz	80MHz	MCH	CP-QPSK	18.16	18.46	18.06	18.32	18.33	18.60	21.48	19.07	30.00	Pass
30KHz	80MHz	MCH	CP-16QAM	17.82	17.85	17.74	17.66	17.79	18.05	20.93	18.54	30.00	Pass
30KHz	80MHz	MCH	CP-64QAM	16.26	16.03	16.27	15.98	16.31	16.60	19.47	17.06	30.00	Pass
30KHz	80MHz	MCH	CP-256QAM	13.27	13.52	13.22	13.47	13.31	13.55	16.44	14.04	30.00	Pass
30KHz	80MHz	HCH	CP-QPSK	17.79	18.02	18.27	18.16	18.14	18.21	21.23	18.86	30.00	Pass
30KHz	80MHz	HCH	CP-16QAM	17.37	17.38	17.93	17.47	17.64	17.74	20.72	18.47	30.00	Pass
30KHz	80MHz	HCH	CP-64QAM	15.87	15.69	16.39	15.84	16.11	16.23	19.18	16.94	30.00	Pass
30KHz	80MHz	HCH	CP-256QAM	12.90	13.19	13.45	13.30	13.09	13.28	16.39	14.00	30.00	Pass
30KHz	90MHz	LCH	CP-QPSK	17.95	18.13	18.63	18.83	18.30	18.80	21.74	19.34	30.00	Pass
30KHz	90MHz	LCH	CP-16QAM	17.56	17.43	18.23	18.26	17.82	18.34	21.26	18.90	30.00	Pass
30KHz	90MHz	LCH	CP-64QAM	16.04	15.68	16.71	16.51	16.24	16.74	19.62	17.34	30.00	Pass
30KHz	90MHz	LCH	CP-256QAM	13.08	13.27	13.73	14.01	13.23	13.80	16.88	14.47	30.00	Pass
30KHz	90MHz	MCH	CP-QPSK	18.21	18.39	18.05	18.22	18.33	18.62	21.49	19.08	30.00	Pass
30KHz	90MHz	MCH	CP-16QAM	17.76	17.72	17.65	17.60	17.86	18.08	20.98	18.58	30.00	Pass
30KHz	90MHz	MCH	CP-64QAM	16.31	16.02	16.13	15.88	16.29	16.58	19.45	17.05	30.00	Pass
30KHz	90MHz	MCH	CP-256QAM	13.31	13.52	13.17	13.43	13.32	13.60	16.47	14.06	30.00	Pass
30KHz	90MHz	HCH	CP-QPSK	17.73	18.03	18.19	18.14	18.08	18.23	21.18	18.83	30.00	Pass
30KHz	90MHz	HCH	CP-16QAM	17.35	17.40	17.88	17.43	17.61	17.73	20.68	18.43	30.00	Pass
30KHz	90MHz	HCH	CP-64QAM	15.81	15.66	16.26	15.75	16.04	16.20	19.13	16.85	30.00	Pass
30KHz	90MHz	HCH	CP-256QAM	12.88	13.22	13.29	13.28	13.07	13.23	16.30	13.90	30.00	Pass
30KHz	100MHz	LCH	CP-QPSK	17.90	18.13	18.67	18.78	18.25	18.74	21.74	19.34	30.00	Pass
30KHz	100MHz	LCH	CP-16QAM	17.45	17.52	18.29	18.18	17.77	18.34	21.25	18.93	30.00	Pass
30KHz	100MHz	LCH	CP-64QAM	16.02	15.75	16.76	16.45	16.20	16.79	19.62	17.39	30.00	Pass
30KHz	100MHz	LCH	CP-256QAM	13.00	13.30	13.72	13.96	13.25	13.78	16.85	14.45	30.00	Pass
30KHz	100MHz	MCH	CP-QPSK	18.24	18.27	18.09	18.19	18.30	18.57	21.45	19.04	30.00	Pass
30KHz	100MHz	MCH	CP-16QAM	17.78	17.77	17.73	17.54	17.81	18.08	20.96	18.55	30.00	Pass
30KHz	100MHz	MCH	CP-64QAM	16.16	15.90	16.04	15.83	16.28	16.64	19.47	17.06	30.00	Pass
30KHz	100MHz	MCH	CP-256QAM	13.30	13.50	13.17	13.37	13.30	13.64	16.48	14.07	30.00	Pass
30KHz	100MHz	HCH	CP-QPSK	17.88	18.15	18.38	18.18	18.09	18.24	21.29	18.94	30.00	Pass
30KHz	100MHz	HCH	CP-16QAM	17.50	17.57	17.96	17.47	17.59	17.81	20.73	18.51	30.00	Pass
30KHz	100MHz	HCH	CP-64QAM	16.00	15.80	16.36	15.82	16.01	16.25	19.14	16.93	30.00	Pass
30KHz	100MHz	HCH	CP-256QAM	12.91	13.27	13.42	13.31	13.04	13.36	16.38	14.01	30.00	Pass

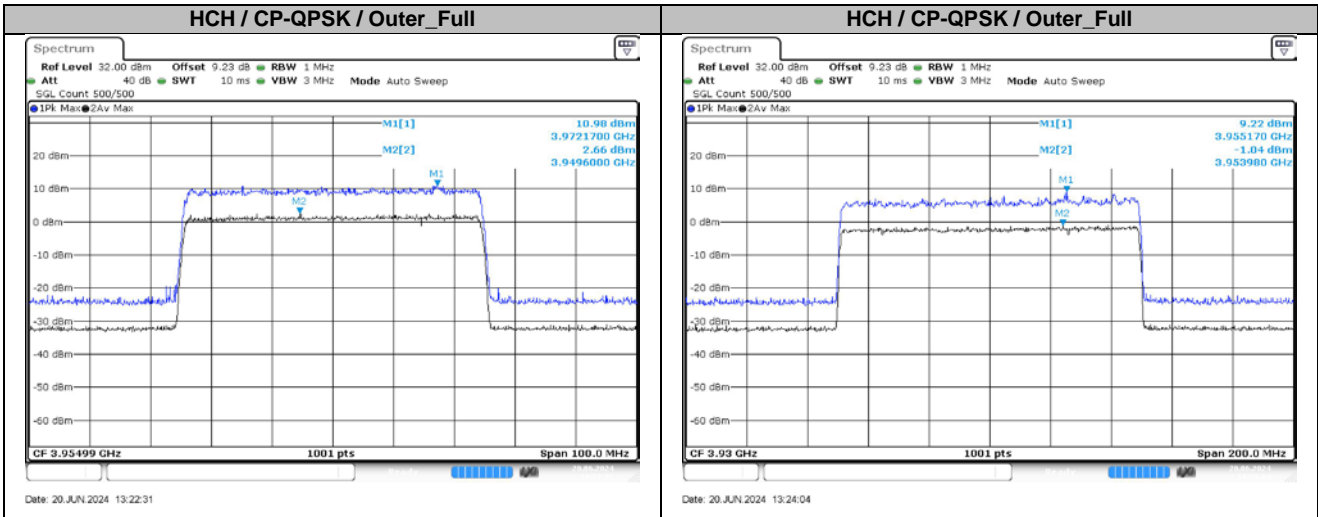
2. Peak-to-Average Ratio

2.1. Test Results

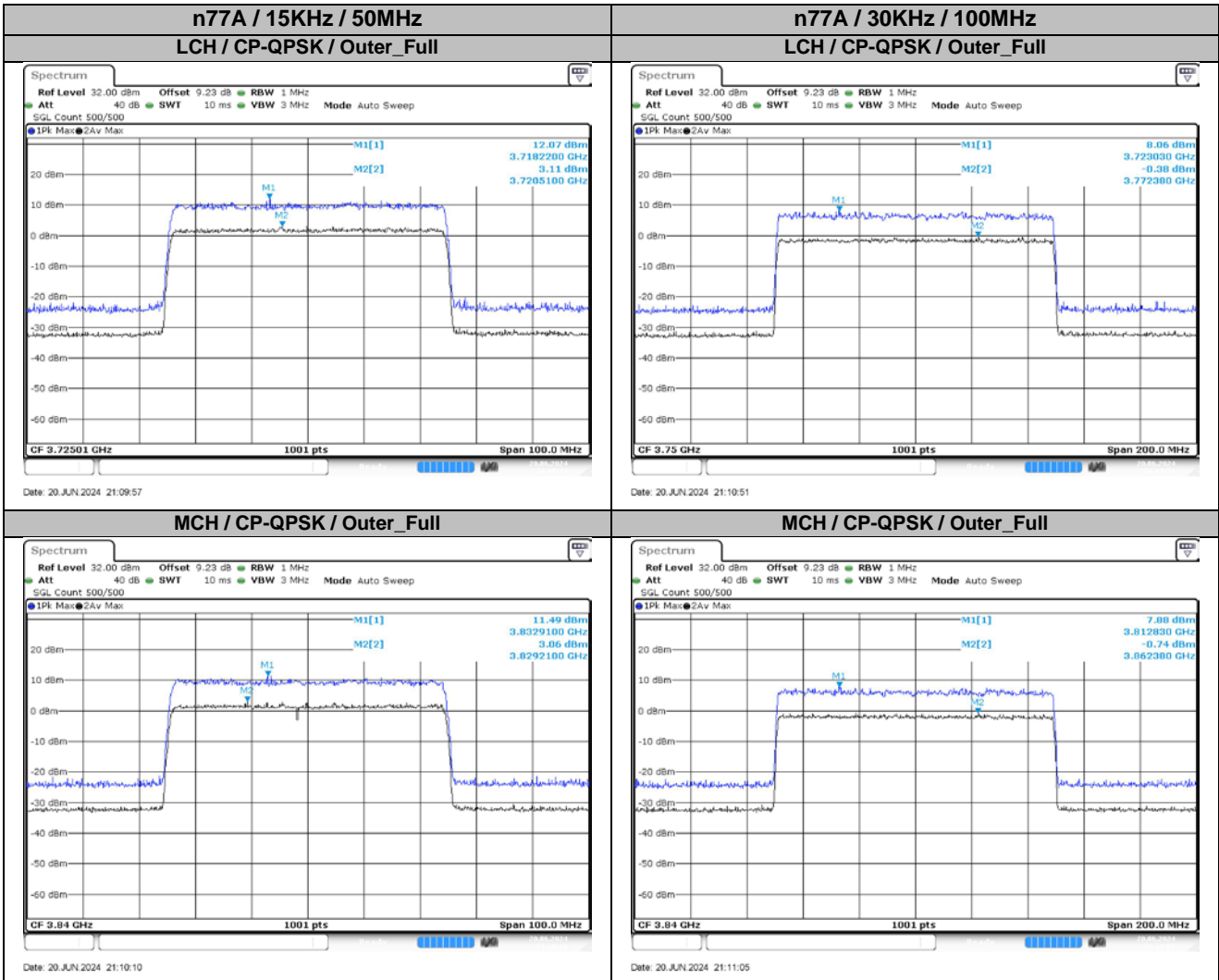
Channel	Modulation	Result (dB)				Limit (dB)	Verdict
		15KHz / 50MHz / CP-QPSK		30KHz / 100MHz / CP-QPSK			
		Ant4	Ant6	Ant4	Ant6		
LCH	Outer_Full	8.51	8.96	10.12	8.44	13.00	Pass
MCH	Outer_Full	8.44	8.43	9.58	8.62	13.00	Pass
HCH	Outer_Full	8.32	9.38	10.26	8.78	13.00	Pass

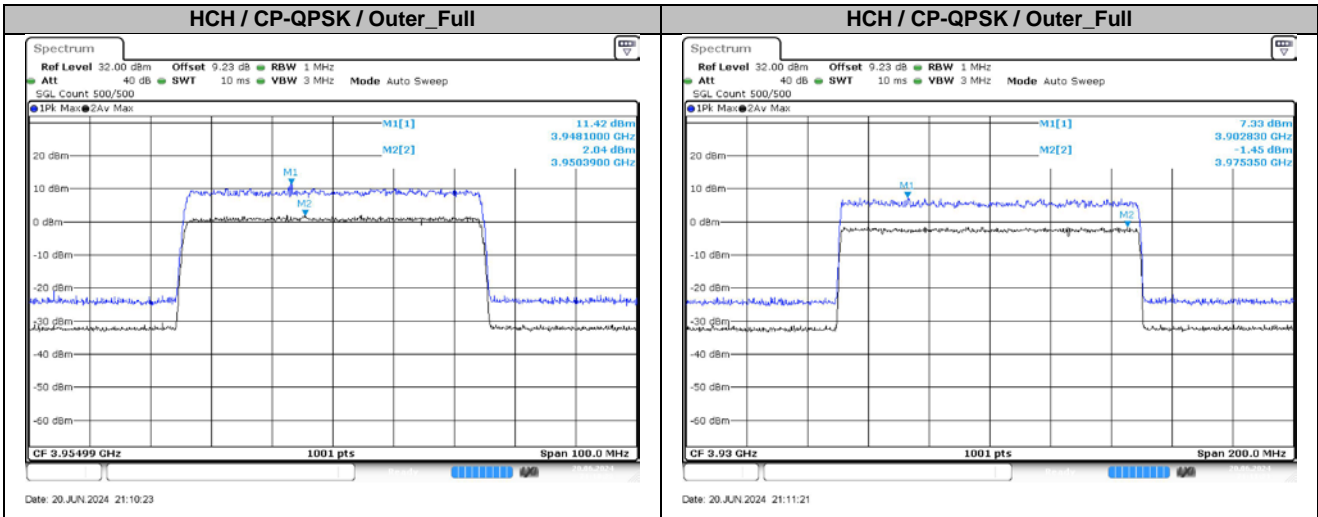
2.2. Test Plots for Ant4





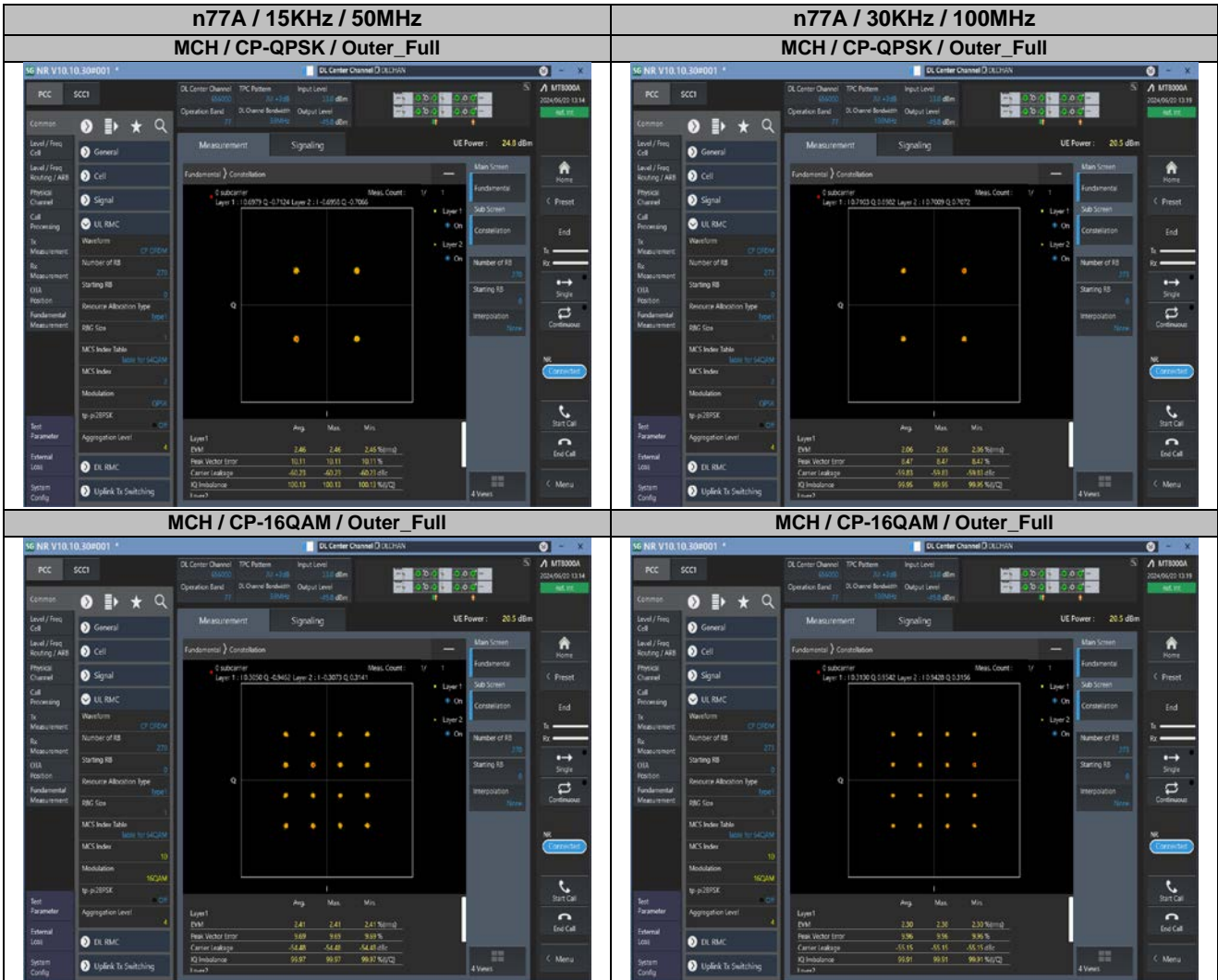
2.3. Test Plots for Ant6

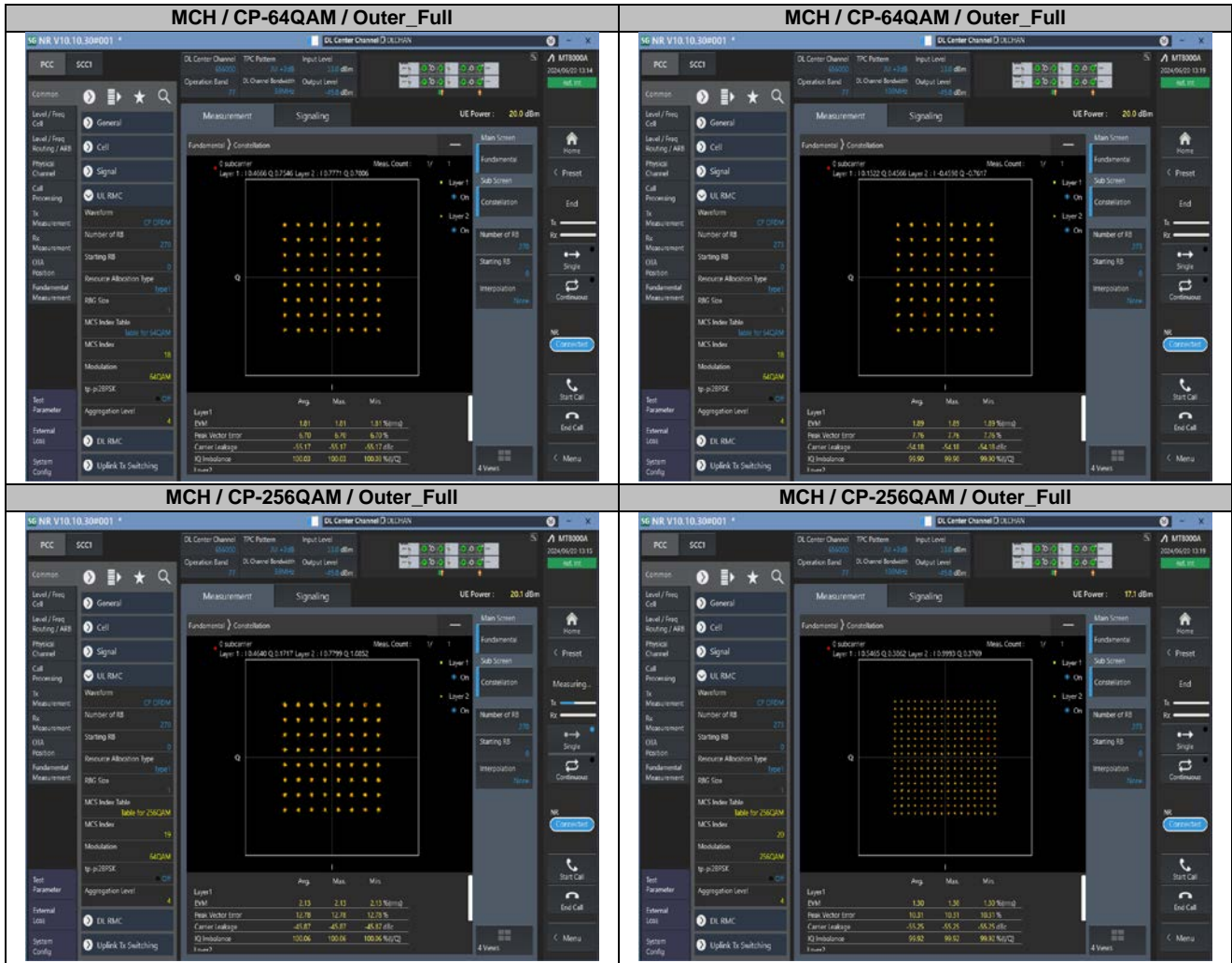




3. Modulation Characteristics

3.1. Test Plots



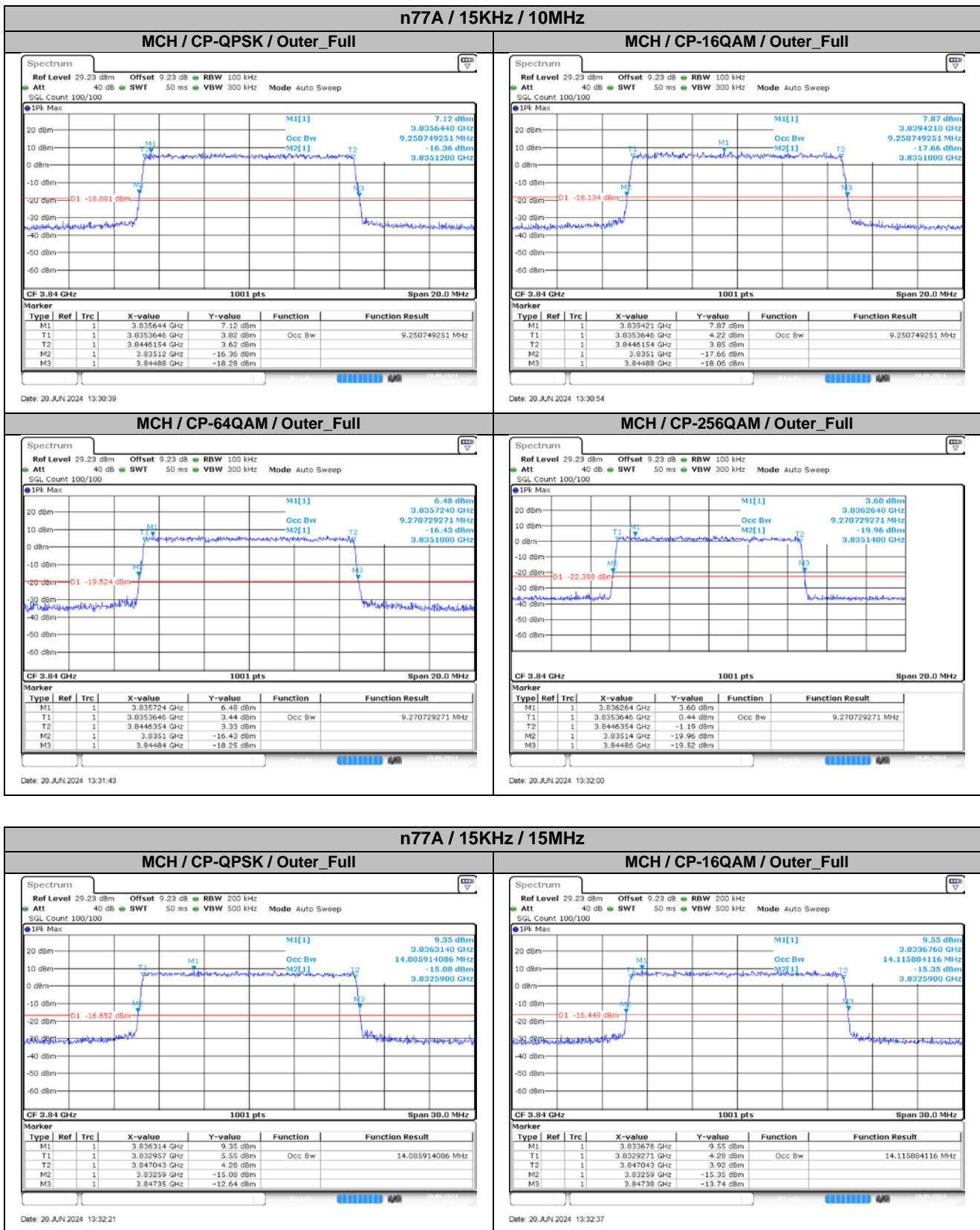


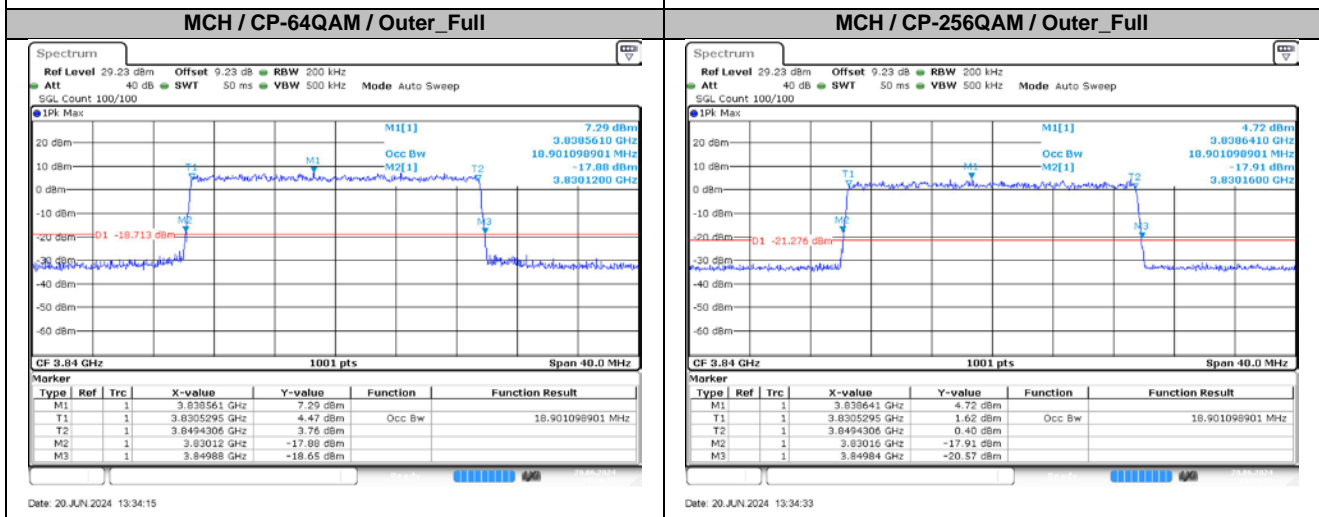
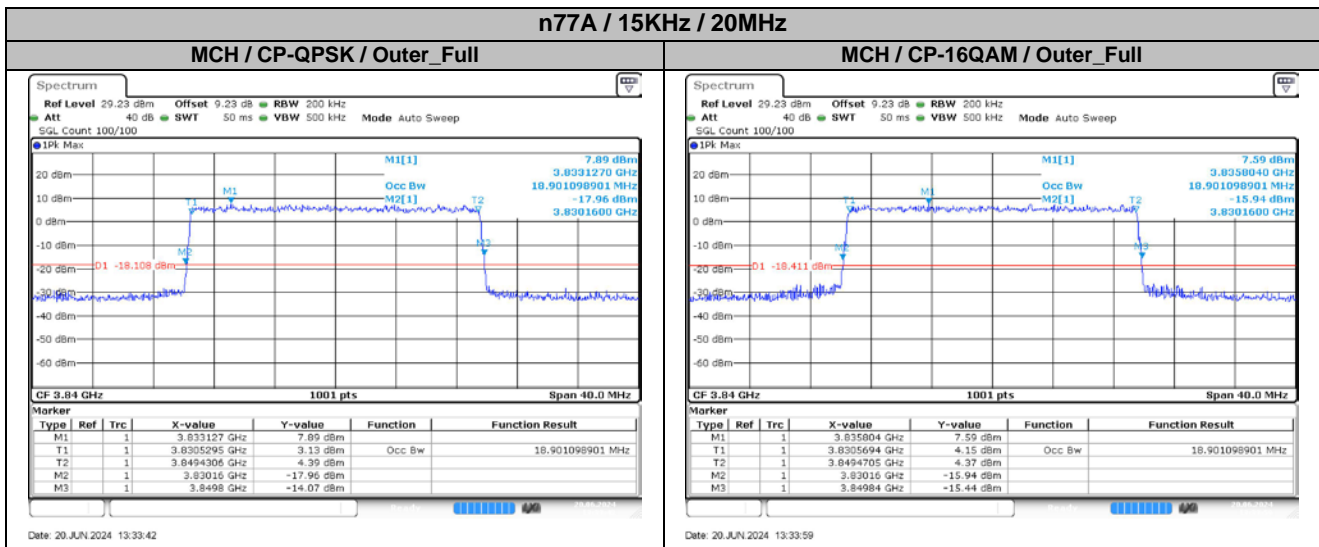
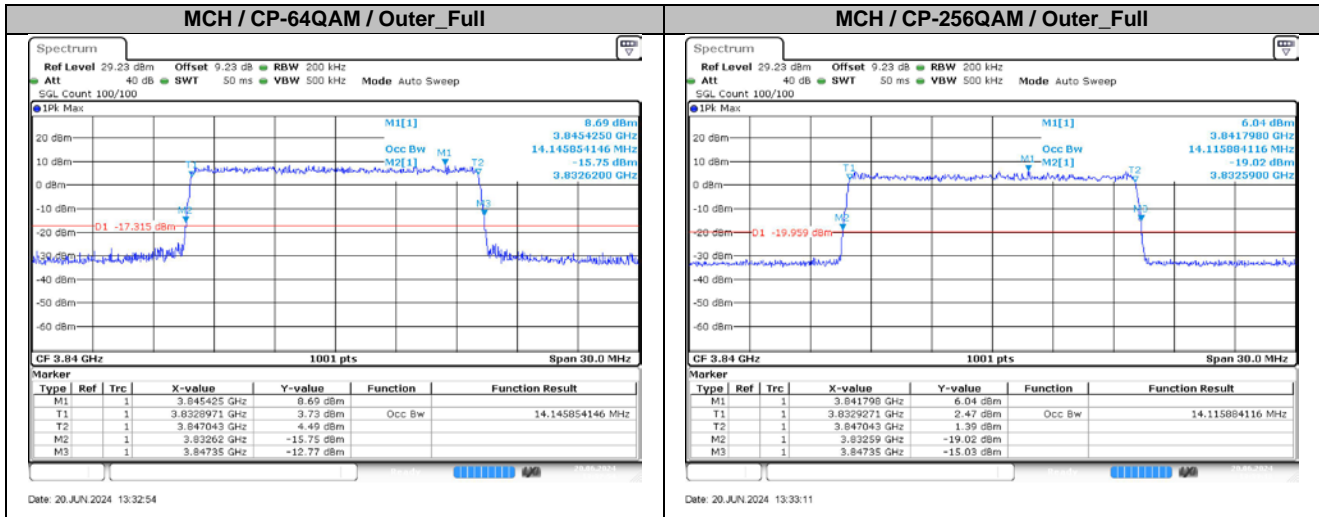
4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

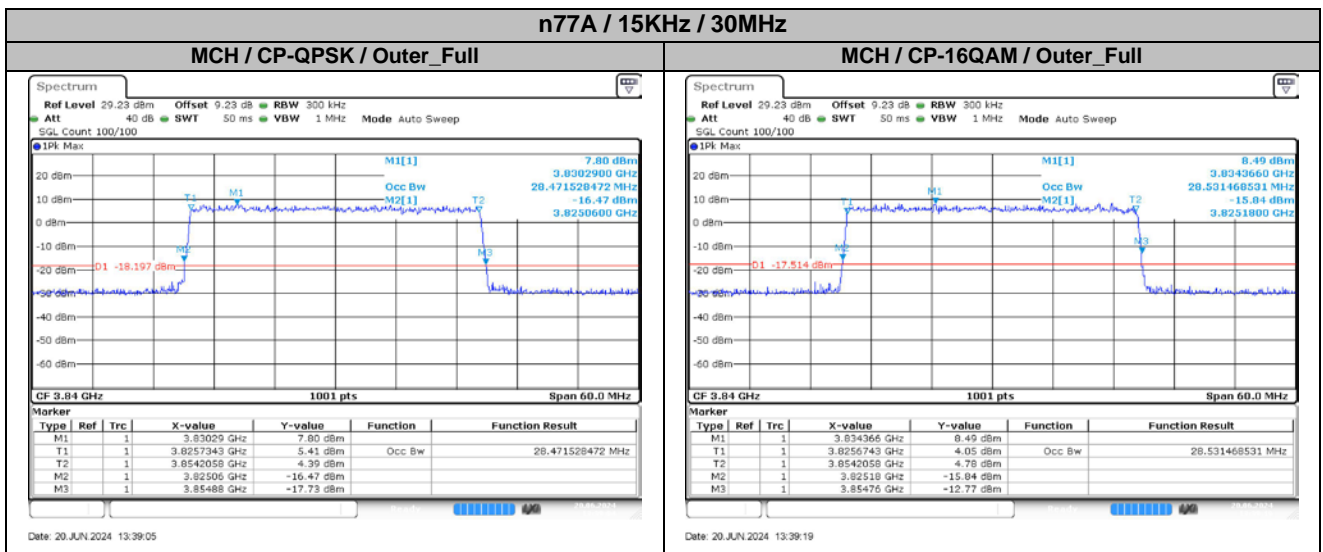
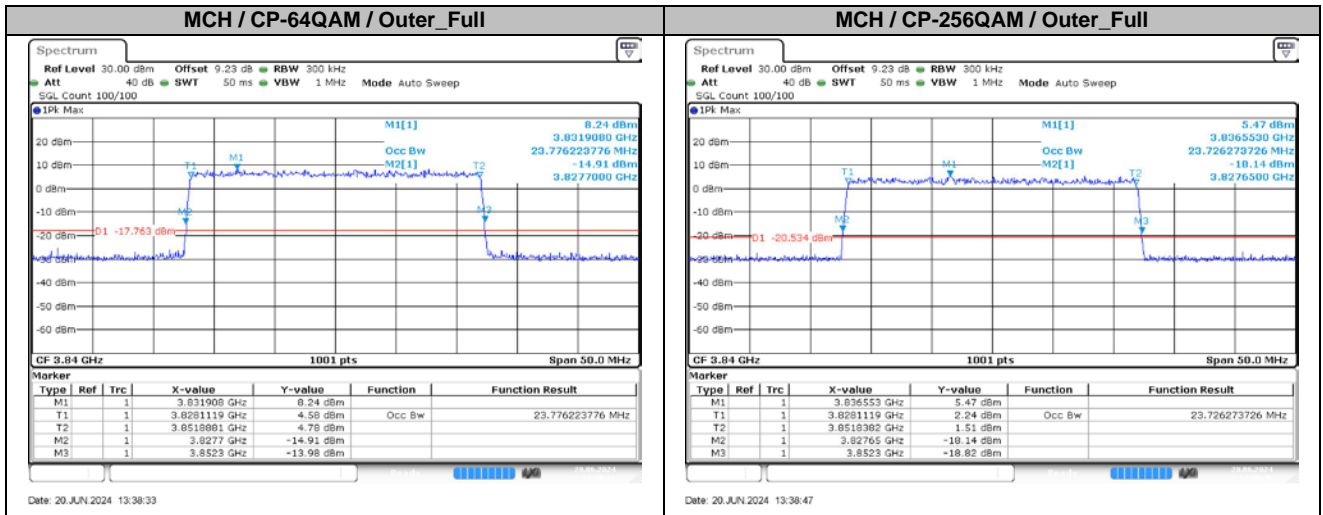
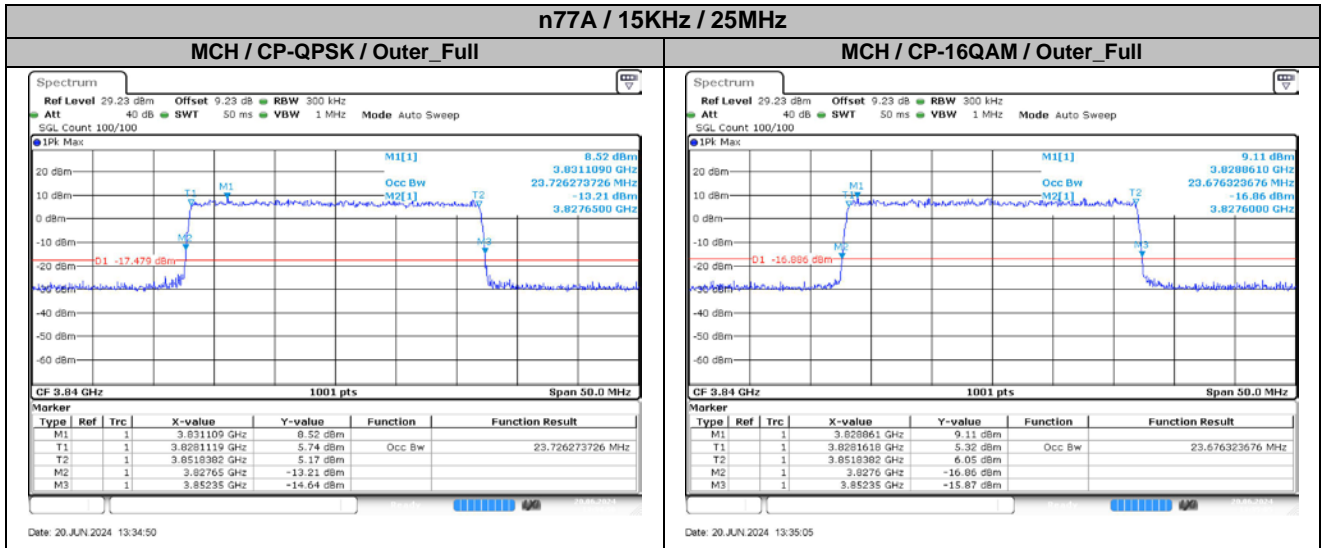
4.1. Test Results

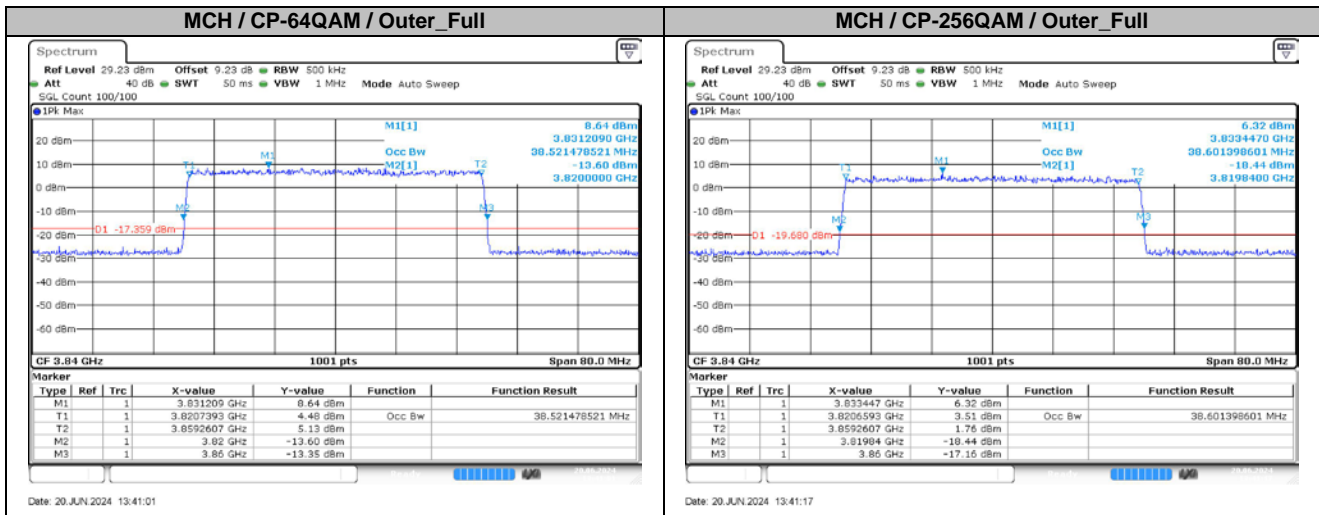
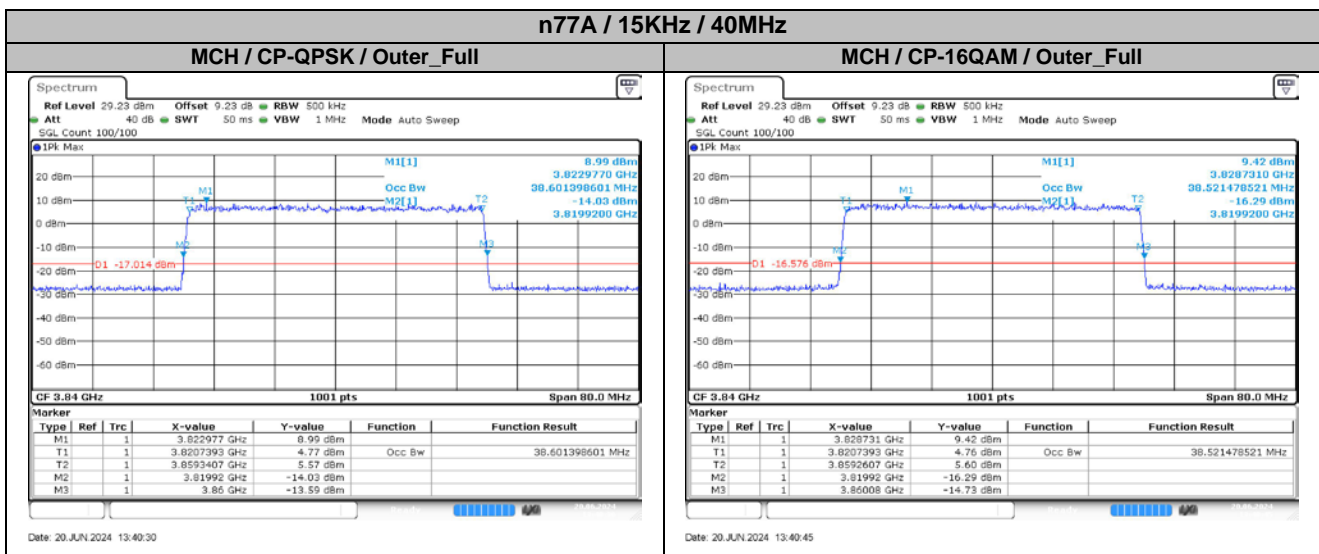
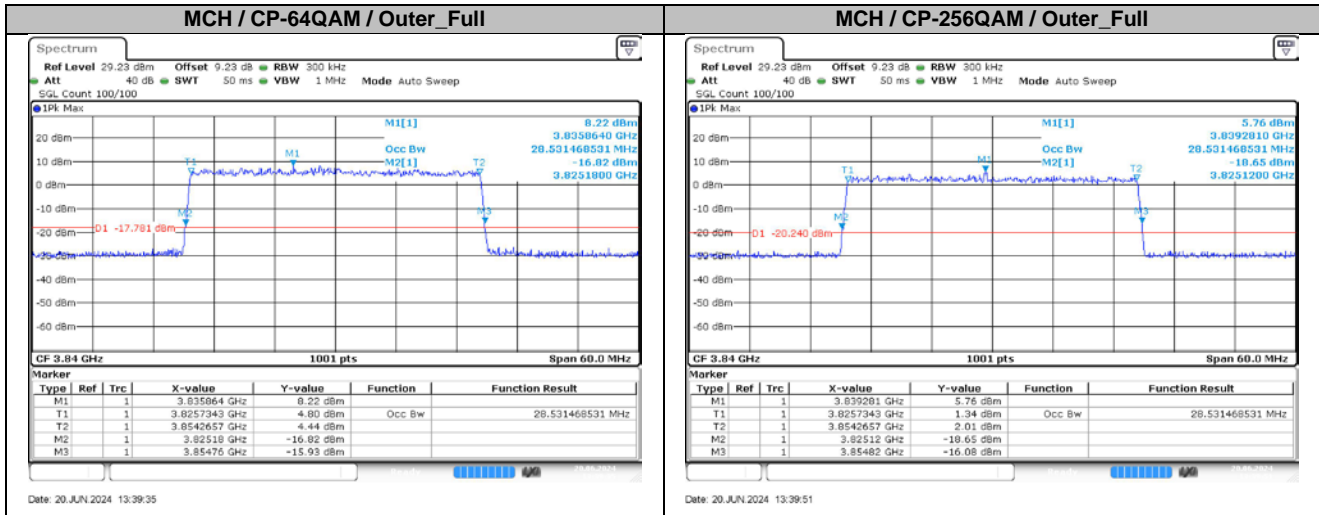
Bandwidth	Modulation	RB Config	99% Occupied Bandwidth (MHz)				26dB Emission Bandwidth (MHz)				Verdict
			15KHz		30KHz		15KHz		30KHz		
			Ant4	Ant6	Ant4	Ant6	Ant4	Ant6	Ant4	Ant6	
10MHz	CP-QPSK	Outer_Full	9.25	9.27	8.59	8.57	9.76	9.80	9.32	9.18	Pass
10MHz	CP-16QAM	Outer_Full	9.25	9.25	8.57	8.57	9.78	9.68	9.32	9.26	Pass
10MHz	CP-64QAM	Outer_Full	9.27	9.27	8.57	8.59	9.74	9.70	9.22	9.34	Pass
10MHz	CP-256QAM	Outer_Full	9.27	9.27	8.53	8.59	9.72	9.78	9.22	9.30	Pass
15MHz	CP-QPSK	Outer_Full	14.09	14.09	13.58	13.58	14.76	14.79	14.52	14.58	Pass
15MHz	CP-16QAM	Outer_Full	14.12	14.15	13.61	13.58	14.79	14.82	14.55	14.49	Pass
15MHz	CP-64QAM	Outer_Full	14.15	14.09	13.58	13.55	14.73	14.79	14.52	14.49	Pass
15MHz	CP-256QAM	Outer_Full	14.12	14.12	13.55	13.61	14.76	14.73	14.55	14.43	Pass
20MHz	CP-QPSK	Outer_Full	18.90	18.90	18.18	18.18	19.64	19.64	19.16	19.08	Pass
20MHz	CP-16QAM	Outer_Full	18.90	18.94	18.18	18.18	19.68	19.72	19.20	19.08	Pass
20MHz	CP-64QAM	Outer_Full	18.90	18.90	18.18	18.26	19.76	19.64	19.16	19.16	Pass
20MHz	CP-256QAM	Outer_Full	18.90	18.90	18.18	18.18	19.68	19.72	19.16	19.16	Pass
25MHz	CP-QPSK	Outer_Full	23.73	23.68	23.23	23.23	24.70	24.70	24.35	24.40	Pass
25MHz	CP-16QAM	Outer_Full	23.68	23.73	23.13	23.23	24.75	24.65	24.30	24.35	Pass
25MHz	CP-64QAM	Outer_Full	23.78	23.73	23.13	23.18	24.60	24.75	24.25	24.40	Pass
25MHz	CP-256QAM	Outer_Full	23.73	23.78	23.23	23.18	24.65	24.65	24.50	24.35	Pass
30MHz	CP-QPSK	Outer_Full	28.47	28.53	27.87	27.87	29.82	29.70	29.28	29.28	Pass
30MHz	CP-16QAM	Outer_Full	28.53	28.47	27.87	27.87	29.58	29.70	29.22	29.34	Pass
30MHz	CP-64QAM	Outer_Full	28.53	28.47	27.81	27.81	29.58	29.64	29.28	29.34	Pass
30MHz	CP-256QAM	Outer_Full	28.53	28.53	27.93	27.81	29.70	29.70	29.46	29.28	Pass
40MHz	CP-QPSK	Outer_Full	38.60	38.60	37.80	37.80	40.08	40.16	39.84	39.52	Pass
40MHz	CP-16QAM	Outer_Full	38.52	38.52	37.88	37.88	40.16	40.16	39.76	39.60	Pass
40MHz	CP-64QAM	Outer_Full	38.52	38.52	37.88	37.88	40.00	40.16	39.60	39.76	Pass
40MHz	CP-256QAM	Outer_Full	38.60	38.60	37.88	37.96	40.16	40.08	39.68	39.60	Pass
50MHz	CP-QPSK	Outer_Full	48.15	48.25	47.45	47.55	49.90	49.90	49.30	49.40	Pass
50MHz	CP-16QAM	Outer_Full	48.05	48.05	47.45	47.45	49.80	49.90	49.50	49.20	Pass
50MHz	CP-64QAM	Outer_Full	48.15	48.15	47.35	47.45	49.80	49.90	49.30	49.20	Pass
50MHz	CP-256QAM	Outer_Full	48.15	48.15	47.55	47.55	49.80	49.70	49.30	49.40	Pass
60MHz	CP-QPSK	Outer_Full	N/A	N/A	57.66	57.66	N/A	N/A	59.76	59.52	Pass
60MHz	CP-16QAM	Outer_Full	N/A	N/A	57.66	57.78	N/A	N/A	59.52	59.52	Pass
60MHz	CP-64QAM	Outer_Full	N/A	N/A	57.78	57.78	N/A	N/A	59.76	59.76	Pass
60MHz	CP-256QAM	Outer_Full	N/A	N/A	57.78	57.78	N/A	N/A	59.52	59.64	Pass
70MHz	CP-QPSK	Outer_Full	N/A	N/A	67.41	67.41	N/A	N/A	69.44	69.44	Pass
70MHz	CP-16QAM	Outer_Full	N/A	N/A	67.41	67.41	N/A	N/A	69.30	69.30	Pass
70MHz	CP-64QAM	Outer_Full	N/A	N/A	67.41	67.41	N/A	N/A	69.30	69.44	Pass
70MHz	CP-256QAM	Outer_Full	N/A	N/A	67.41	67.41	N/A	N/A	69.44	69.44	Pass
80MHz	CP-QPSK	Outer_Full	N/A	N/A	77.36	77.36	N/A	N/A	80.32	80.48	Pass
80MHz	CP-16QAM	Outer_Full	N/A	N/A	77.36	77.36	N/A	N/A	80.32	80.48	Pass
80MHz	CP-64QAM	Outer_Full	N/A	N/A	77.68	77.52	N/A	N/A	80.48	80.32	Pass
80MHz	CP-256QAM	Outer_Full	N/A	N/A	77.52	77.52	N/A	N/A	80.64	80.48	Pass
90MHz	CP-QPSK	Outer_Full	N/A	N/A	87.39	87.57	N/A	N/A	90.36	90.54	Pass
90MHz	CP-16QAM	Outer_Full	N/A	N/A	87.39	87.57	N/A	N/A	90.72	90.54	Pass
90MHz	CP-64QAM	Outer_Full	N/A	N/A	87.57	87.57	N/A	N/A	90.54	90.72	Pass
90MHz	CP-256QAM	Outer_Full	N/A	N/A	87.57	87.75	N/A	N/A	90.72	90.72	Pass
100MHz	CP-QPSK	Outer_Full	N/A	N/A	97.50	97.50	N/A	N/A	100.80	100.60	Pass
100MHz	CP-16QAM	Outer_Full	N/A	N/A	97.30	97.30	N/A	N/A	100.80	100.60	Pass
100MHz	CP-64QAM	Outer_Full	N/A	N/A	97.50	97.70	N/A	N/A	100.80	100.60	Pass
100MHz	CP-256QAM	Outer_Full	N/A	N/A	97.70	97.70	N/A	N/A	100.60	100.80	Pass

4.2. Test Plots for Ant4

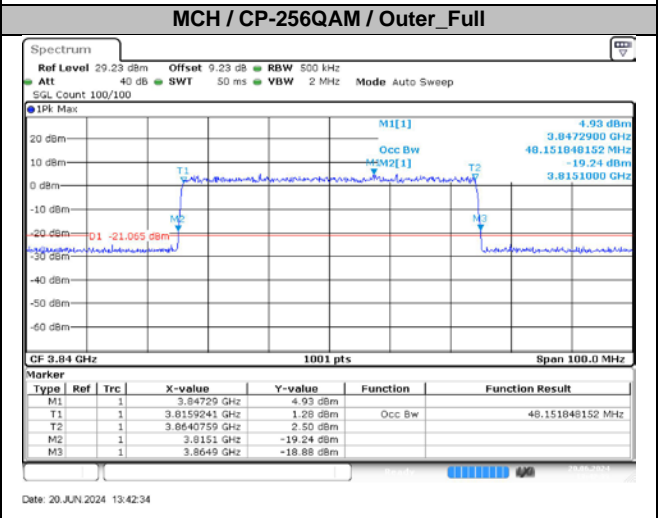
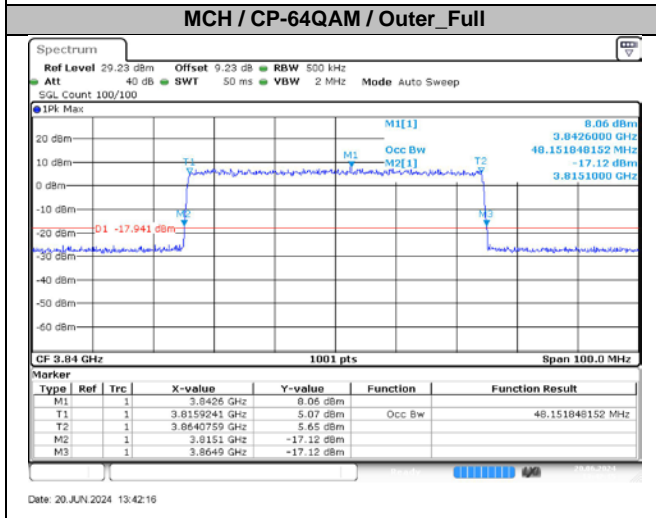
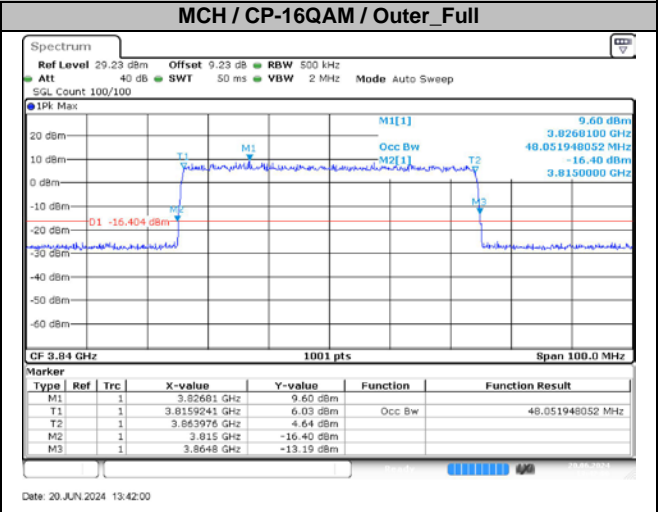
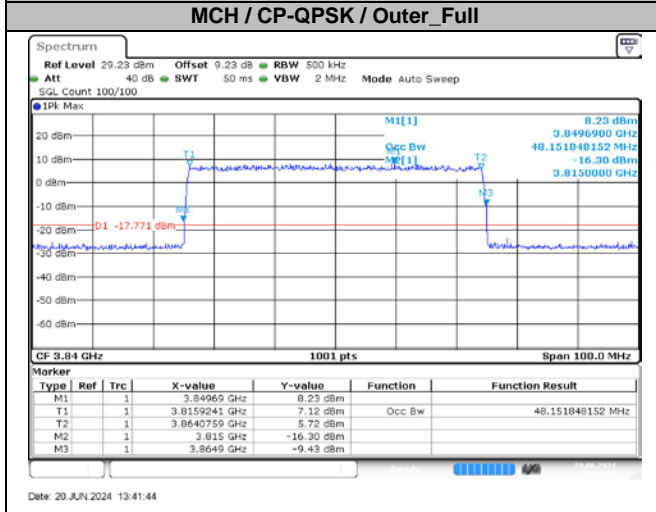




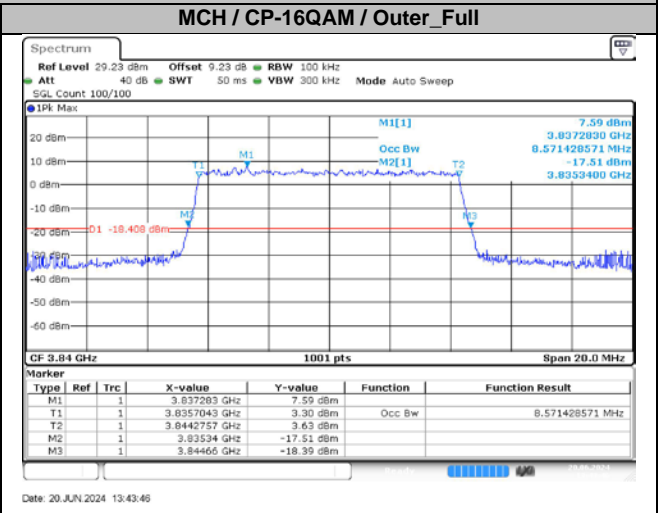
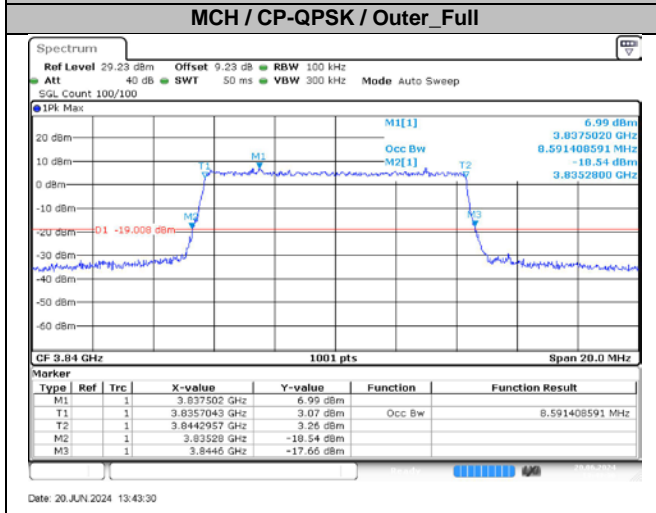


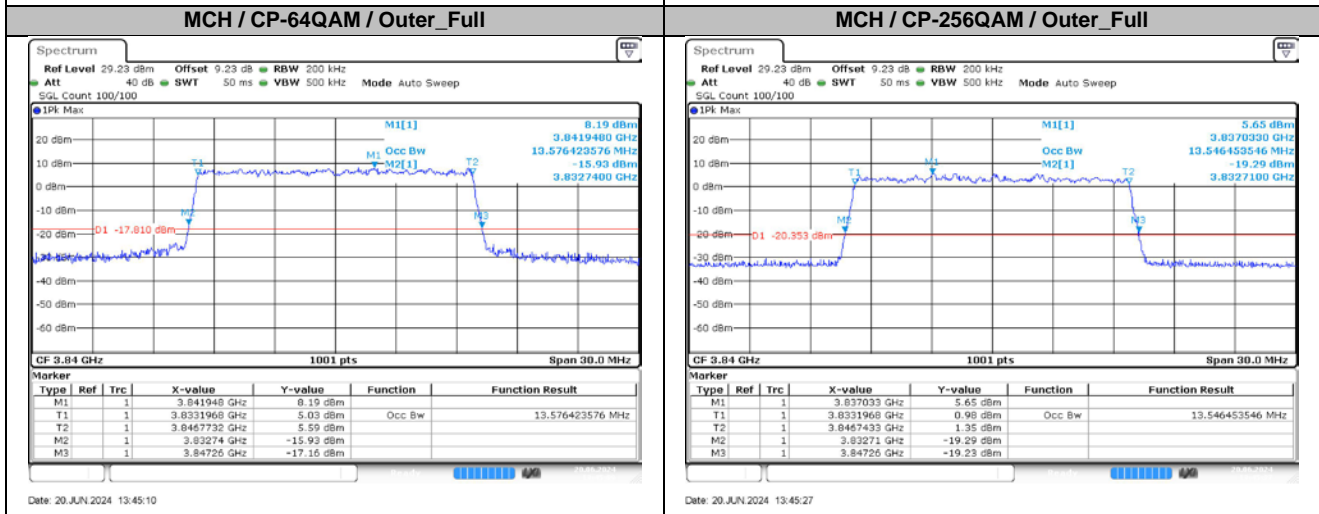
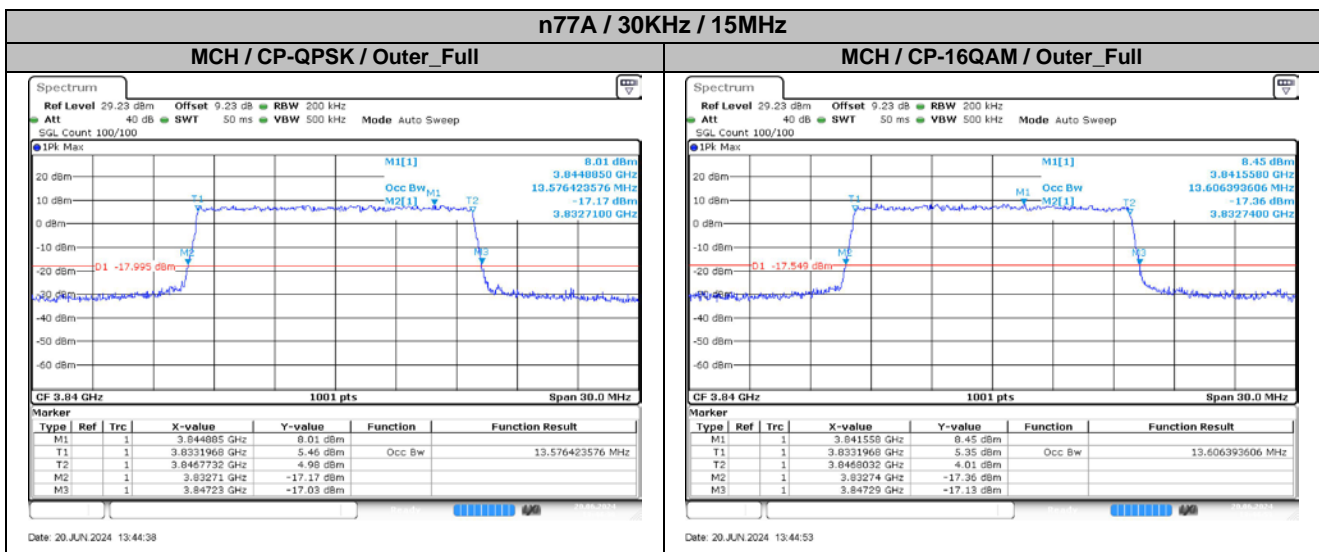
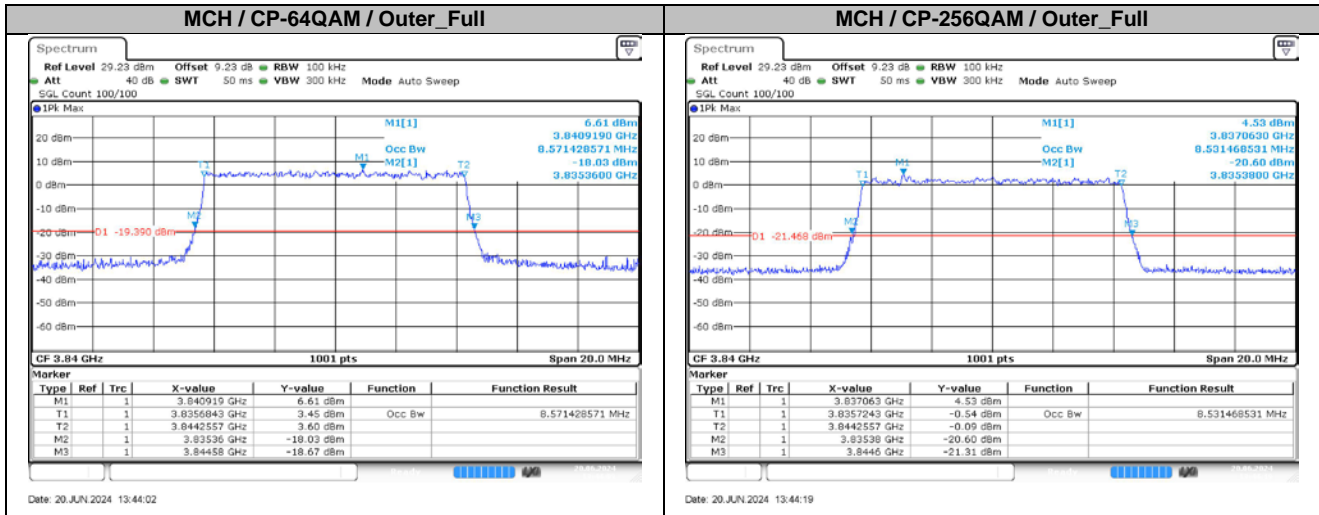


n77A / 15KHz / 50MHz

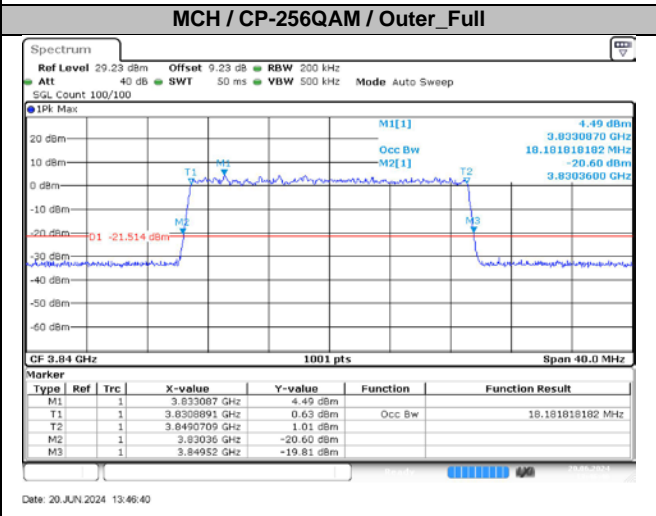
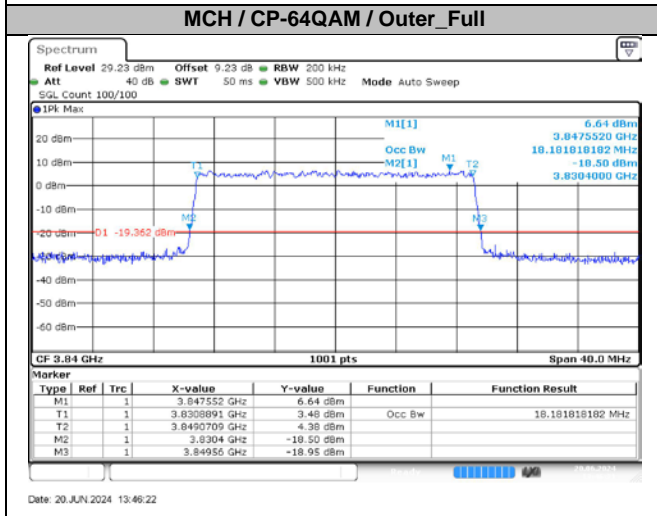
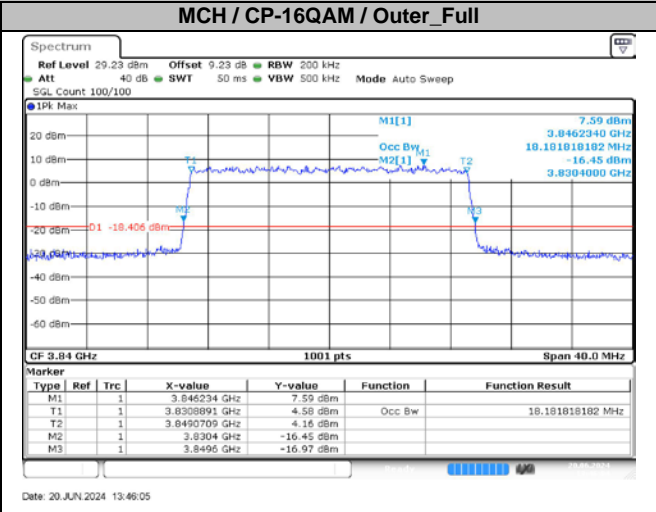
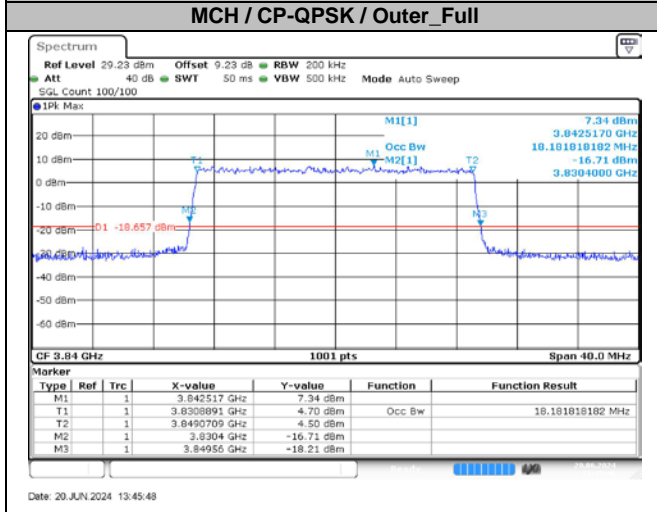


n77A / 30KHz / 10MHz

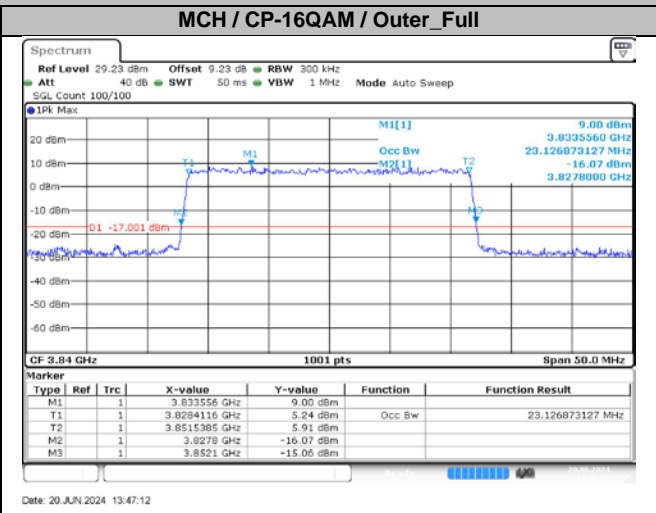
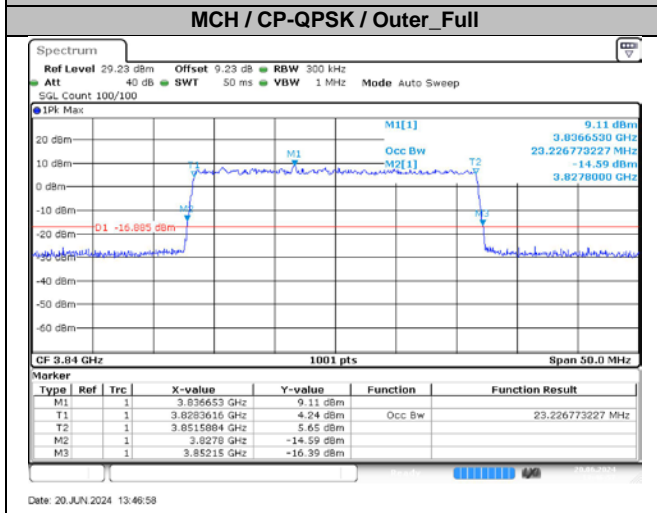


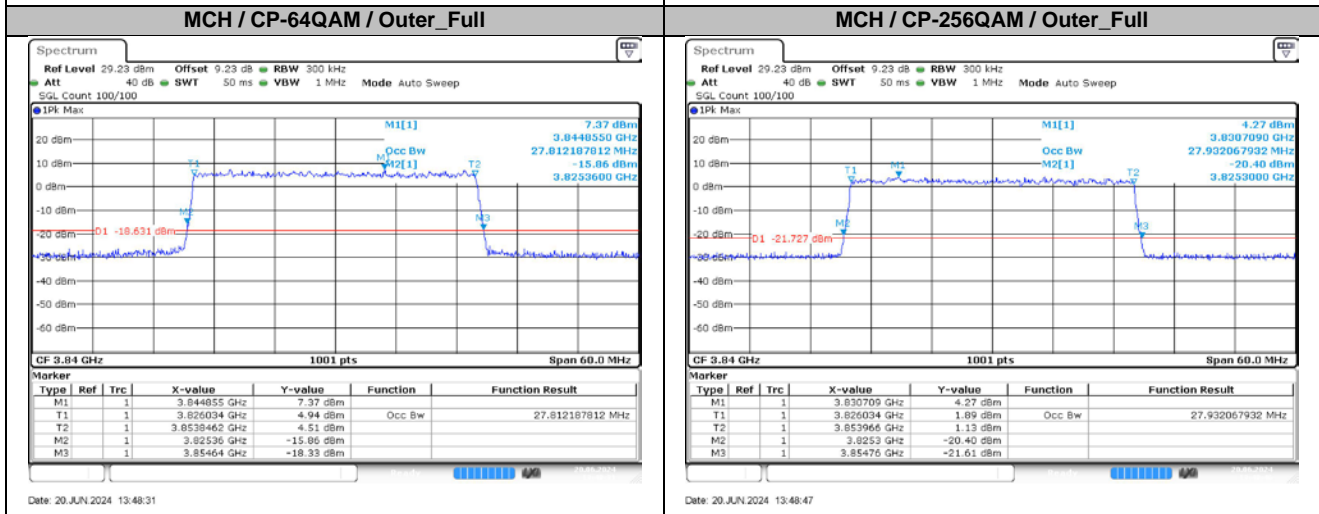
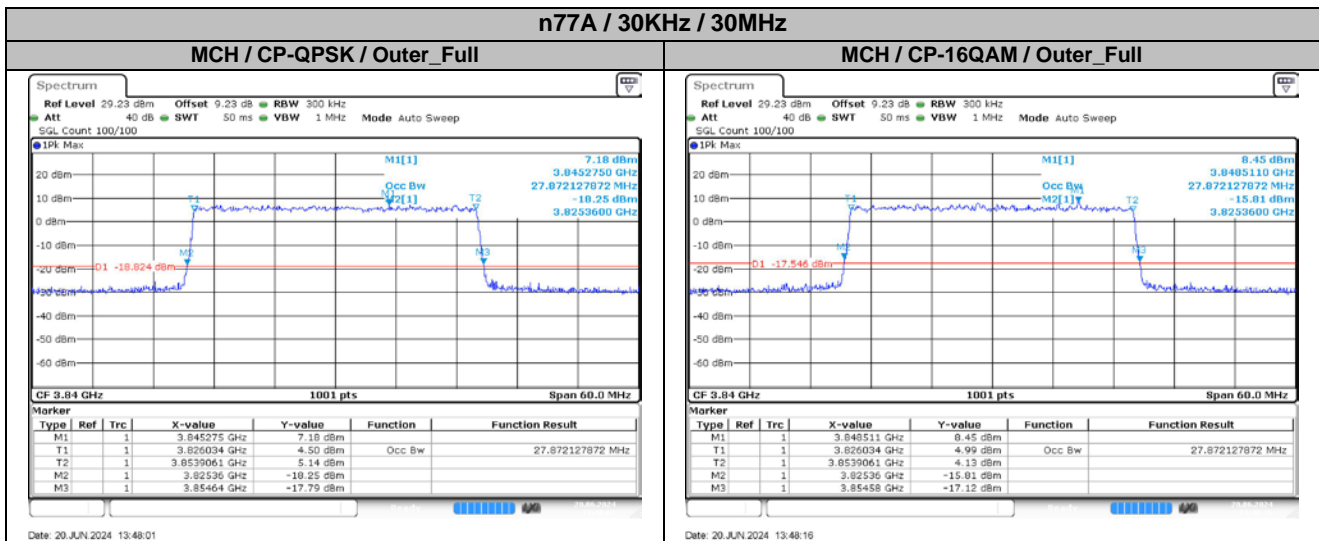
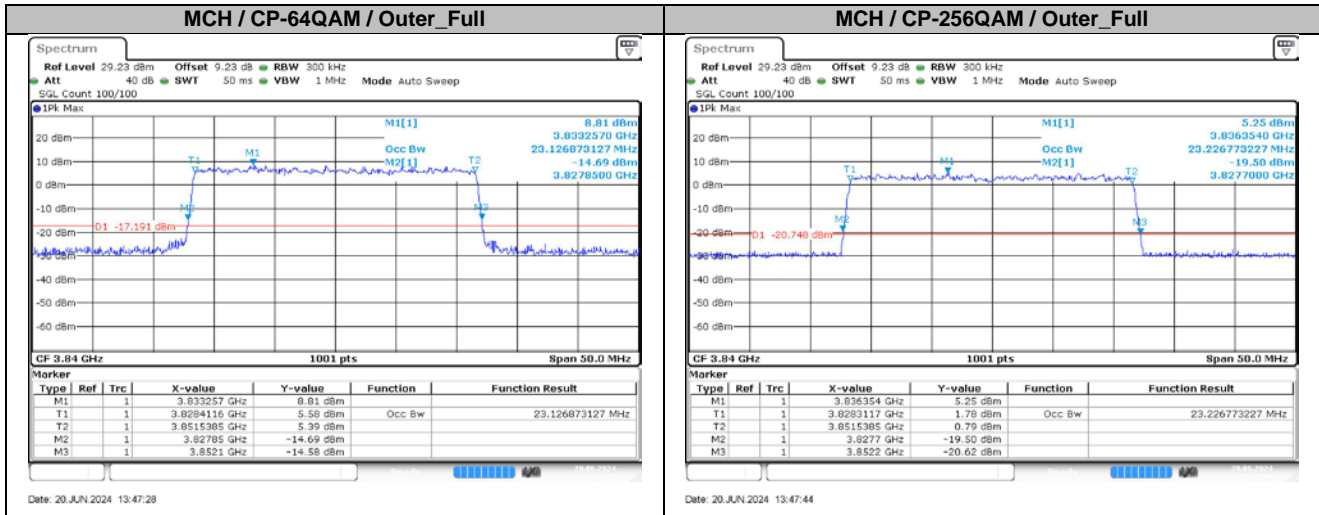


n77A / 30kHz / 20MHz

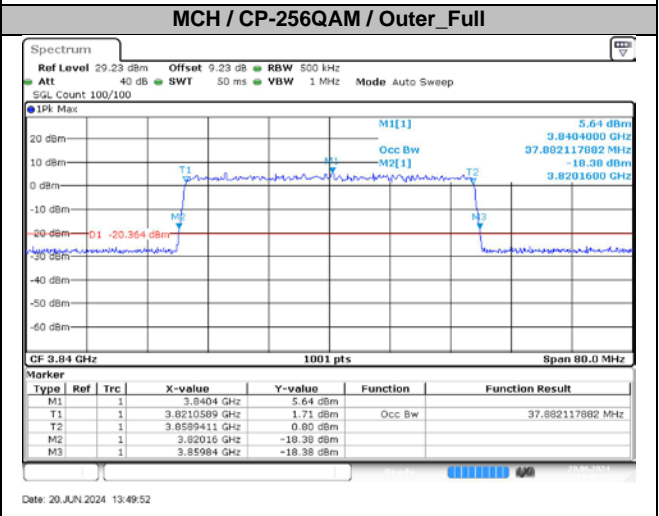
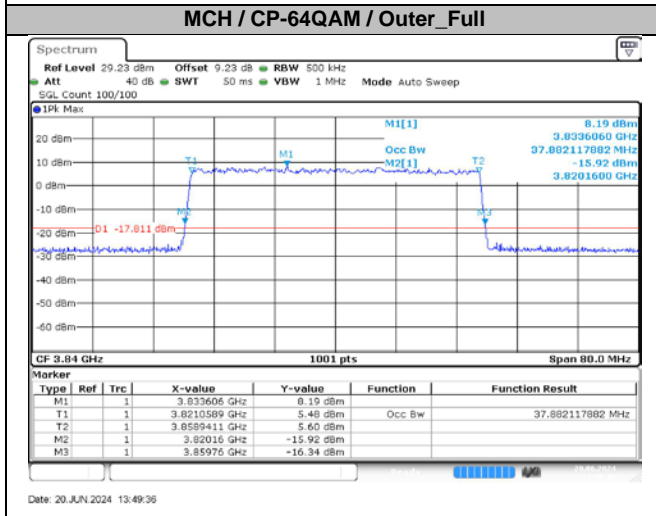
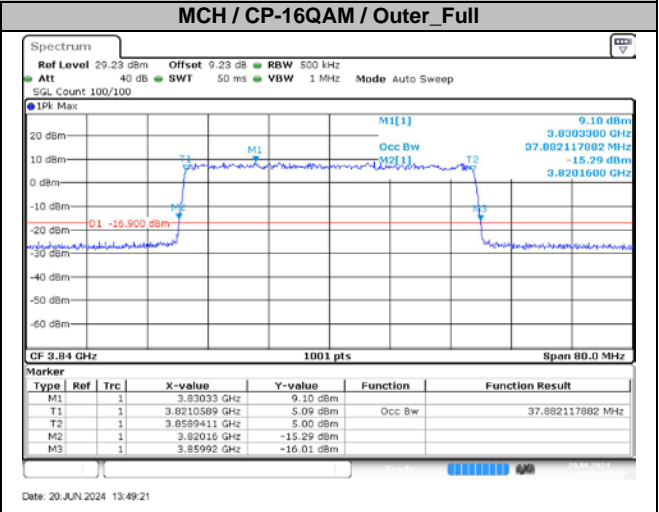
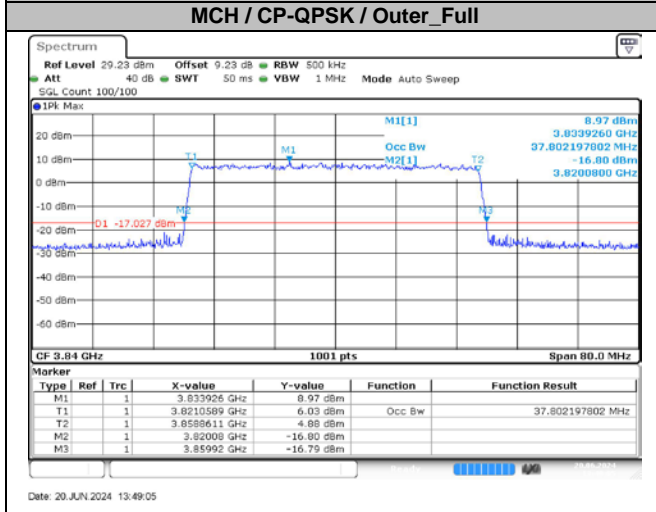


n77A / 30kHz / 25MHz

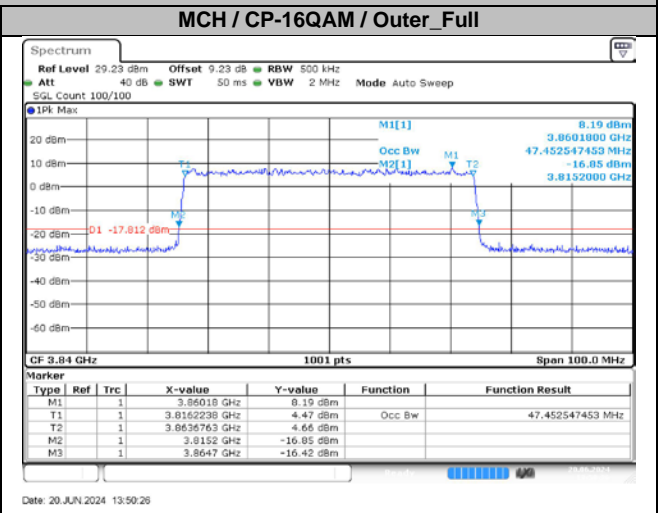
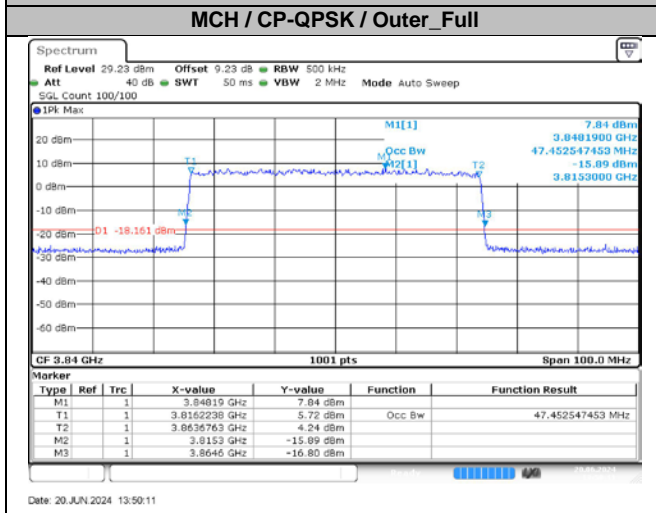


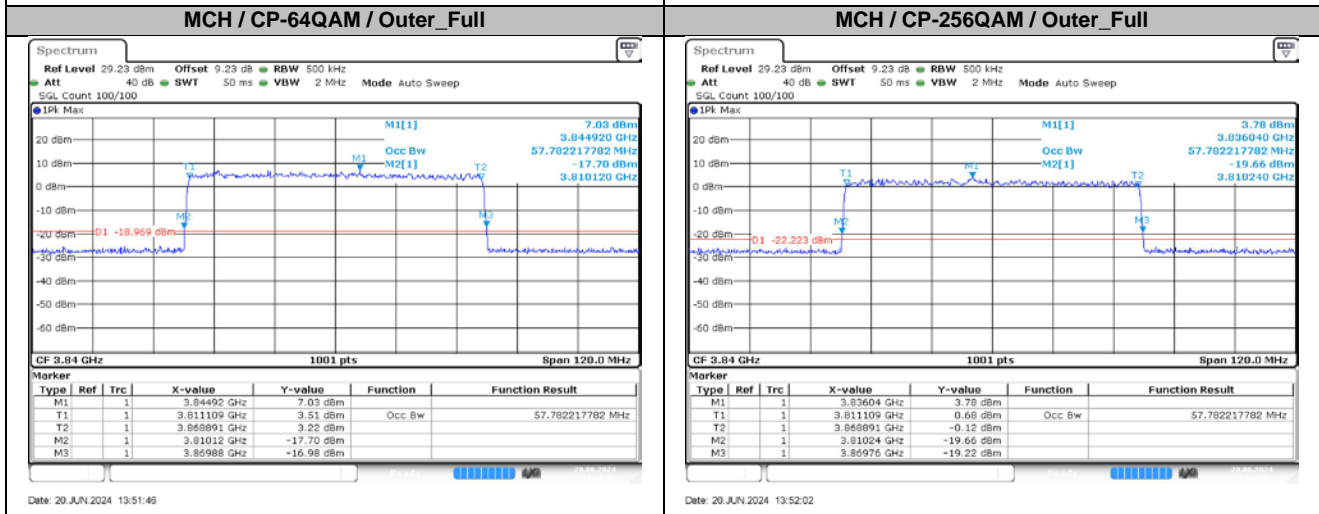
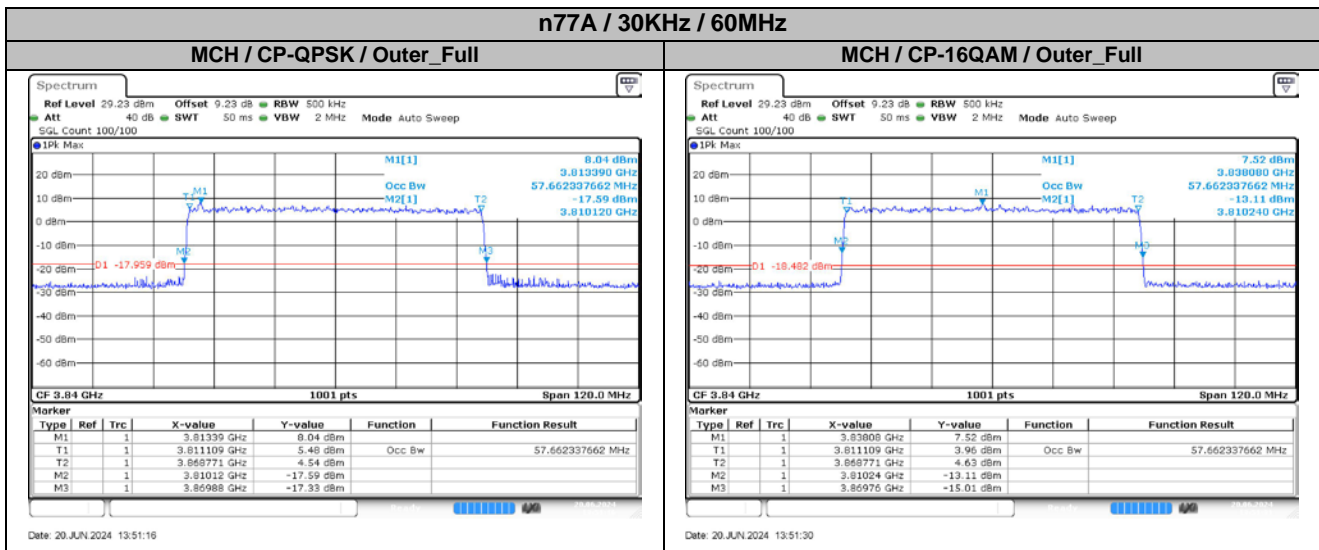
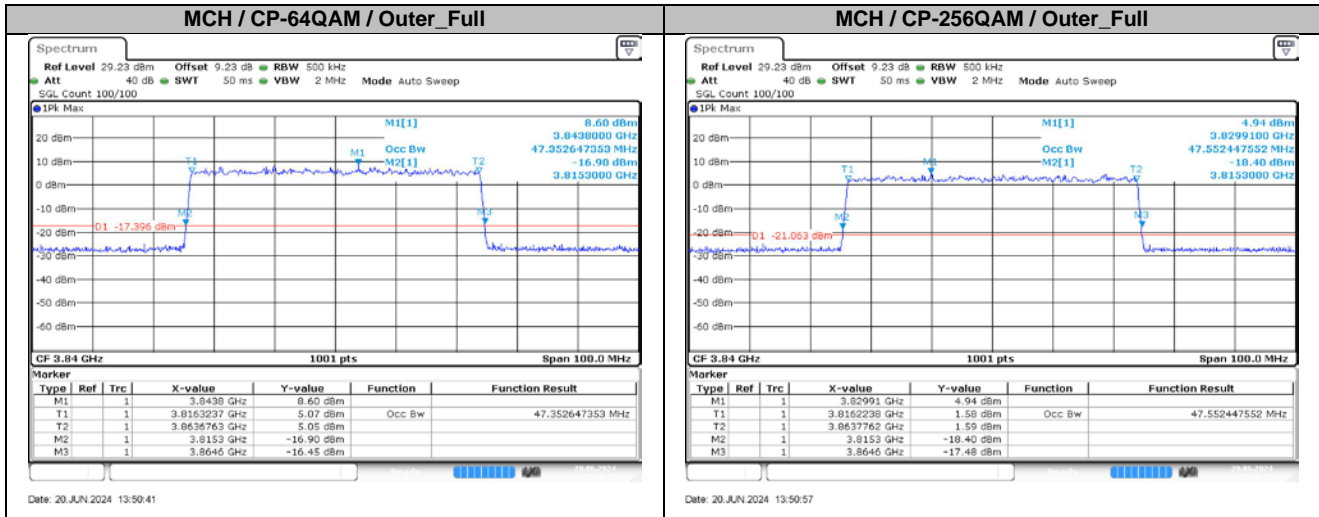


n77A / 30kHz / 40MHz

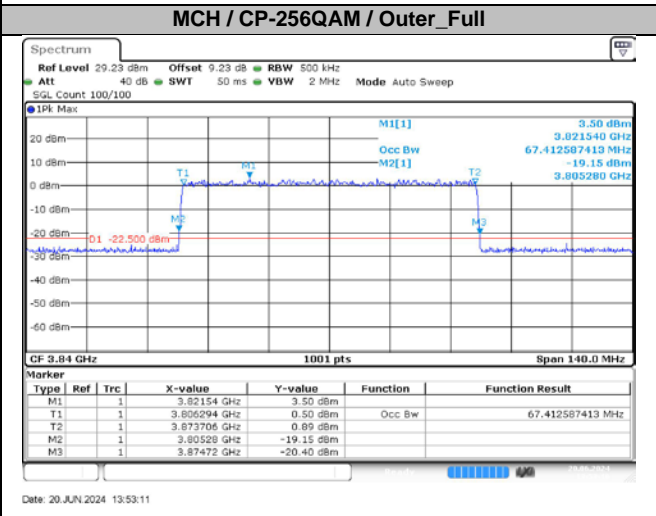
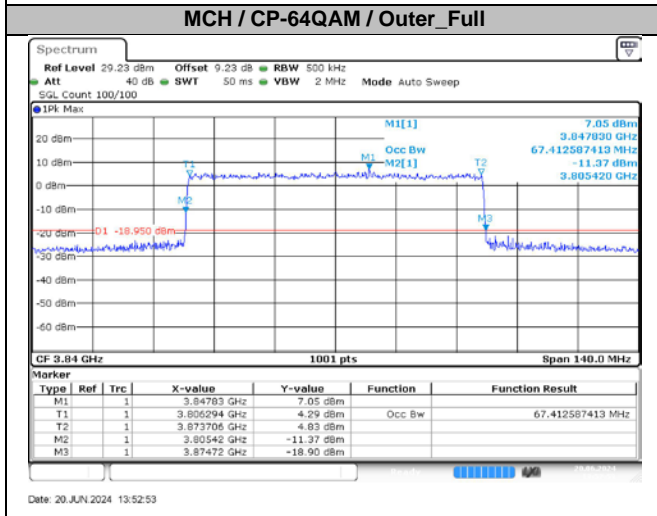
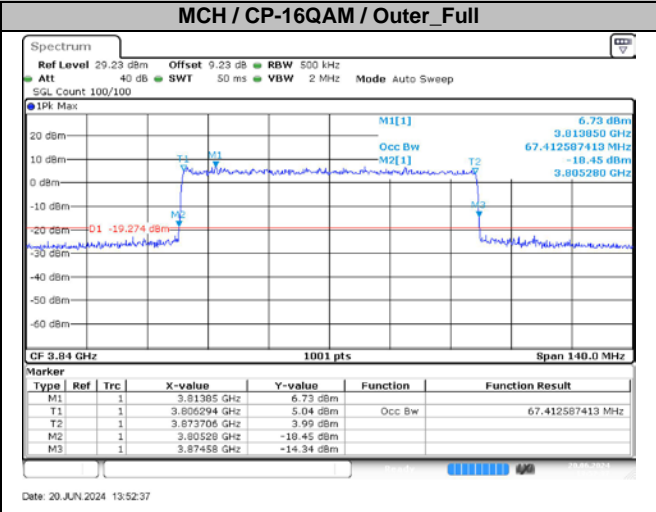
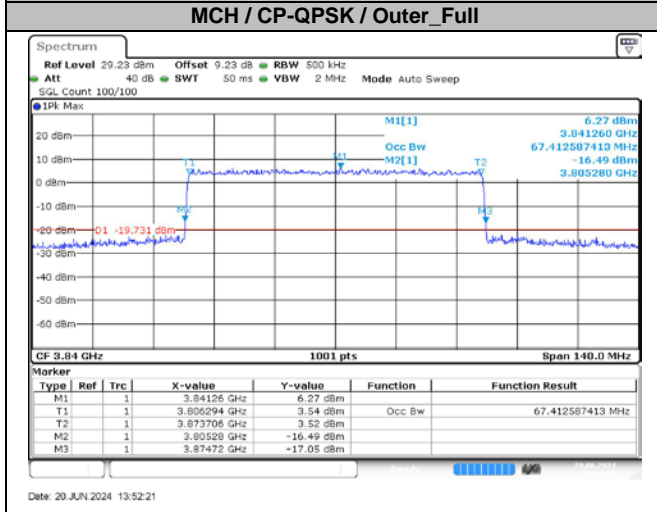


n77A / 30kHz / 50MHz





n77A / 30KHz / 70MHz



n77A / 30KHz / 80MHz

