

Appendix for n5A (824-849)

Catalogue

1. EFFECTIVE RADIATED POWER	3
1.1. TEST RESULTS @ ANT0 (ANTENNA GAIN=-5.40DBI).....	3
1.2. TEST RESULTS @ ANT4 (ANTENNA GAIN=-4.30DBI).....	4
2. PEAK-TO-AVERAGE RATIO	5
2.1. TEST RESULTS	5
2.2. TEST PLOTS FOR SCS=15KHZ	5
3. MODULATION CHARACTERISTICS	6
3.1. TEST PLOTS FOR SCS=15KHZ	6
4. 99% OCCUPIED BANDWIDTH & 26DB EMISSION BANDWIDTH	8
4.1. TEST RESULTS	8
4.2. TEST PLOTS FOR SCS=15KHZ	9
5. CONDUCTED BAND EDGES	13
5.1. TEST PLOTS FOR SCS=15KHZ	13
6. CONDUCTED SPURIOUS EMISSION.....	18
6.1. TEST PLOTS FOR SCS=15KHZ	18
7. FREQUENCY STABILITY.....	22
7.1. TEST RESULTS	22

1. Effective Radiated Power

1.1. Test Results @ Ant0 (Antenna Gain=-5.40dBi)

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	22.96	23.03	23.12	15.57	38.45	Pass
15KHz	5MHz	LCH	DFT-QPSK	22.99	23.01	23.11	15.56	38.45	Pass
15KHz	5MHz	LCH	DFT-16QAM	22.07	22.08	22.06	14.53	38.45	Pass
15KHz	5MHz	LCH	DFT-64QAM	20.65	20.60	20.63	13.10	38.45	Pass
15KHz	5MHz	LCH	DFT-256QAM	18.46	18.47	18.71	11.16	38.45	Pass
15KHz	5MHz	LCH	CP-QPSK	21.26	21.32	21.56	14.01	38.45	Pass
15KHz	5MHz	MCH	DFT-Pi2BPSK	23.06	23.08	23.12	15.57	38.45	Pass
15KHz	5MHz	MCH	DFT-QPSK	23.05	23.09	23.14	15.59	38.45	Pass
15KHz	5MHz	MCH	DFT-16QAM	22.18	22.22	22.10	14.67	38.45	Pass
15KHz	5MHz	MCH	DFT-64QAM	20.67	20.76	20.64	13.21	38.45	Pass
15KHz	5MHz	MCH	DFT-256QAM	18.56	18.61	18.72	11.17	38.45	Pass
15KHz	5MHz	MCH	CP-QPSK	21.45	21.43	21.60	14.05	38.45	Pass
15KHz	5MHz	HCH	DFT-Pi2BPSK	23.11	23.13	23.19	15.64	38.45	Pass
15KHz	5MHz	HCH	DFT-QPSK	23.12	23.13	23.25	15.70	38.45	Pass
15KHz	5MHz	HCH	DFT-16QAM	22.17	22.27	22.16	14.72	38.45	Pass
15KHz	5MHz	HCH	DFT-64QAM	20.73	20.77	20.70	13.22	38.45	Pass
15KHz	5MHz	HCH	DFT-256QAM	18.58	18.73	18.86	11.31	38.45	Pass
15KHz	5MHz	HCH	CP-QPSK	21.52	21.44	21.68	14.13	38.45	Pass
15KHz	10MHz	LCH	DFT-Pi2BPSK	22.93	23.00	23.02	15.47	38.45	Pass
15KHz	10MHz	LCH	DFT-QPSK	22.94	22.97	23.01	15.46	38.45	Pass
15KHz	10MHz	LCH	DFT-16QAM	22.06	22.13	22.01	14.58	38.45	Pass
15KHz	10MHz	LCH	DFT-64QAM	20.65	20.71	20.58	13.16	38.45	Pass
15KHz	10MHz	LCH	DFT-256QAM	18.32	18.45	18.55	11.00	38.45	Pass
15KHz	10MHz	LCH	CP-QPSK	21.34	21.42	21.44	13.89	38.45	Pass
15KHz	10MHz	MCH	DFT-Pi2BPSK	22.97	23.08	23.05	15.53	38.45	Pass
15KHz	10MHz	MCH	DFT-QPSK	22.94	23.07	23.06	15.52	38.45	Pass
15KHz	10MHz	MCH	DFT-16QAM	22.06	22.17	22.05	14.62	38.45	Pass
15KHz	10MHz	MCH	DFT-64QAM	20.59	20.76	20.64	13.21	38.45	Pass
15KHz	10MHz	MCH	DFT-256QAM	18.41	18.59	18.61	11.06	38.45	Pass
15KHz	10MHz	MCH	CP-QPSK	21.36	21.44	21.51	13.96	38.45	Pass
15KHz	10MHz	HCH	DFT-Pi2BPSK	23.05	23.13	23.14	15.59	38.45	Pass
15KHz	10MHz	HCH	DFT-QPSK	23.02	23.11	23.16	15.61	38.45	Pass
15KHz	10MHz	HCH	DFT-16QAM	22.18	22.33	22.15	14.78	38.45	Pass
15KHz	10MHz	HCH	DFT-64QAM	20.76	20.92	20.68	13.37	38.45	Pass
15KHz	10MHz	HCH	DFT-256QAM	18.52	18.71	18.76	11.21	38.45	Pass
15KHz	10MHz	HCH	CP-QPSK	21.48	21.51	21.59	14.04	38.45	Pass
15KHz	15MHz	LCH	DFT-Pi2BPSK	23.03	23.10	23.05	15.55	38.45	Pass
15KHz	15MHz	LCH	DFT-QPSK	22.97	23.09	23.01	15.54	38.45	Pass
15KHz	15MHz	LCH	DFT-16QAM	22.09	22.27	22.03	14.72	38.45	Pass
15KHz	15MHz	LCH	DFT-64QAM	20.70	20.82	20.56	13.27	38.45	Pass
15KHz	15MHz	LCH	DFT-256QAM	18.43	18.51	18.57	11.02	38.45	Pass
15KHz	15MHz	LCH	CP-QPSK	21.40	21.52	21.56	14.01	38.45	Pass
15KHz	15MHz	MCH	DFT-Pi2BPSK	22.93	23.13	23.10	15.58	38.45	Pass
15KHz	15MHz	MCH	DFT-QPSK	22.93	23.11	23.12	15.57	38.45	Pass
15KHz	15MHz	MCH	DFT-16QAM	22.07	22.26	22.15	14.71	38.45	Pass
15KHz	15MHz	MCH	DFT-64QAM	20.62	20.83	20.59	13.28	38.45	Pass
15KHz	15MHz	MCH	DFT-256QAM	18.43	18.61	18.62	11.07	38.45	Pass
15KHz	15MHz	MCH	CP-QPSK	21.33	21.52	21.58	14.03	38.45	Pass
15KHz	15MHz	HCH	DFT-Pi2BPSK	23.06	23.17	23.15	15.62	38.45	Pass
15KHz	15MHz	HCH	DFT-QPSK	23.04	23.12	23.12	15.57	38.45	Pass
15KHz	15MHz	HCH	DFT-16QAM	22.25	22.32	22.15	14.77	38.45	Pass
15KHz	15MHz	HCH	DFT-64QAM	20.80	20.88	20.66	13.33	38.45	Pass
15KHz	15MHz	HCH	DFT-256QAM	18.50	18.74	18.71	11.19	38.45	Pass
15KHz	15MHz	HCH	CP-QPSK	21.47	21.53	21.60	14.05	38.45	Pass
15KHz	20MHz	LCH	DFT-Pi2BPSK	22.99	23.16	23.07	15.61	38.45	Pass
15KHz	20MHz	LCH	DFT-QPSK	22.96	23.14	23.09	15.59	38.45	Pass
15KHz	20MHz	LCH	DFT-16QAM	22.10	22.28	22.08	14.73	38.45	Pass
15KHz	20MHz	LCH	DFT-64QAM	20.71	20.85	20.58	13.30	38.45	Pass
15KHz	20MHz	LCH	DFT-256QAM	18.41	18.61	18.67	11.12	38.45	Pass

15KHz	20MHz	LCH	CP-QPSK	21.44	21.46	21.58	14.03	38.45	Pass
15KHz	20MHz	MCH	DFT-Pi2BPSK	23.05	23.15	23.12	15.60	38.45	Pass
15KHz	20MHz	MCH	DFT-QPSK	22.96	23.12	23.13	15.58	38.45	Pass
15KHz	20MHz	MCH	DFT-16QAM	22.09	22.25	22.10	14.70	38.45	Pass
15KHz	20MHz	MCH	DFT-64QAM	20.69	20.92	20.61	13.37	38.45	Pass
15KHz	20MHz	MCH	DFT-256QAM	18.46	18.69	18.64	11.14	38.45	Pass
15KHz	20MHz	MCH	CP-QPSK	21.42	21.54	21.59	14.04	38.45	Pass
15KHz	20MHz	HCH	DFT-Pi2BPSK	22.93	23.17	23.13	15.62	38.45	Pass
15KHz	20MHz	HCH	DFT-QPSK	22.91	23.10	23.11	15.56	38.45	Pass
15KHz	20MHz	HCH	DFT-16QAM	22.04	22.34	22.12	14.79	38.45	Pass
15KHz	20MHz	HCH	DFT-64QAM	20.69	20.89	20.65	13.34	38.45	Pass
15KHz	20MHz	HCH	DFT-256QAM	18.41	18.72	18.67	11.17	38.45	Pass
15KHz	20MHz	HCH	CP-QPSK	21.29	21.47	21.59	14.04	38.45	Pass

1.2. Test Results @ Ant4 (Antenna Gain=-4.30dBi)

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	22.85	22.88	23.03	16.58	38.45	Pass
15KHz	5MHz	LCH	DFT-QPSK	22.84	22.84	23.03	16.58	38.45	Pass
15KHz	5MHz	LCH	DFT-16QAM	21.99	21.96	21.99	15.54	38.45	Pass
15KHz	5MHz	LCH	DFT-64QAM	20.51	20.51	20.55	14.10	38.45	Pass
15KHz	5MHz	LCH	DFT-256QAM	18.33	18.38	18.63	12.18	38.45	Pass
15KHz	5MHz	LCH	CP-QPSK	21.25	21.21	21.49	15.04	38.45	Pass
15KHz	5MHz	MCH	DFT-Pi2BPSK	22.94	22.90	22.91	16.49	38.45	Pass
15KHz	5MHz	MCH	DFT-QPSK	22.94	22.89	22.98	16.53	38.45	Pass
15KHz	5MHz	MCH	DFT-16QAM	21.99	21.98	21.92	15.54	38.45	Pass
15KHz	5MHz	MCH	DFT-64QAM	20.61	20.58	20.48	14.16	38.45	Pass
15KHz	5MHz	MCH	DFT-256QAM	18.42	18.41	18.56	12.11	38.45	Pass
15KHz	5MHz	MCH	CP-QPSK	21.24	21.25	21.41	14.96	38.45	Pass
15KHz	5MHz	HCH	DFT-Pi2BPSK	22.94	22.99	23.06	16.61	38.45	Pass
15KHz	5MHz	HCH	DFT-QPSK	22.92	22.99	23.10	16.65	38.45	Pass
15KHz	5MHz	HCH	DFT-16QAM	22.16	22.11	22.03	15.71	38.45	Pass
15KHz	5MHz	HCH	DFT-64QAM	20.61	20.68	20.61	14.23	38.45	Pass
15KHz	5MHz	HCH	DFT-256QAM	18.40	18.57	18.73	12.28	38.45	Pass
15KHz	5MHz	HCH	CP-QPSK	21.30	21.40	21.54	15.09	38.45	Pass
15KHz	10MHz	LCH	DFT-Pi2BPSK	22.85	22.84	22.93	16.48	38.45	Pass
15KHz	10MHz	LCH	DFT-QPSK	22.86	22.85	22.90	16.45	38.45	Pass
15KHz	10MHz	LCH	DFT-16QAM	22.00	21.94	21.93	15.55	38.45	Pass
15KHz	10MHz	LCH	DFT-64QAM	20.46	20.46	20.45	14.01	38.45	Pass
15KHz	10MHz	LCH	DFT-256QAM	18.29	18.29	18.44	11.99	38.45	Pass
15KHz	10MHz	LCH	CP-QPSK	21.29	21.24	21.36	14.91	38.45	Pass
15KHz	10MHz	MCH	DFT-Pi2BPSK	22.83	22.91	22.92	16.47	38.45	Pass
15KHz	10MHz	MCH	DFT-QPSK	22.83	22.89	22.91	16.46	38.45	Pass
15KHz	10MHz	MCH	DFT-16QAM	21.91	21.98	21.92	15.53	38.45	Pass
15KHz	10MHz	MCH	DFT-64QAM	20.54	20.60	20.49	14.15	38.45	Pass
15KHz	10MHz	MCH	DFT-256QAM	18.32	18.41	18.45	12.00	38.45	Pass
15KHz	10MHz	MCH	CP-QPSK	21.21	21.28	21.36	14.91	38.45	Pass
15KHz	10MHz	HCH	DFT-Pi2BPSK	22.89	23.01	22.97	16.56	38.45	Pass
15KHz	10MHz	HCH	DFT-QPSK	22.84	23.01	22.99	16.56	38.45	Pass
15KHz	10MHz	HCH	DFT-16QAM	21.99	22.14	21.96	15.69	38.45	Pass
15KHz	10MHz	HCH	DFT-64QAM	20.53	20.66	20.54	14.21	38.45	Pass
15KHz	10MHz	HCH	DFT-256QAM	18.39	18.61	18.55	12.16	38.45	Pass
15KHz	10MHz	HCH	CP-QPSK	21.45	21.38	21.40	15.00	38.45	Pass
15KHz	15MHz	LCH	DFT-Pi2BPSK	22.91	22.96	22.92	16.51	38.45	Pass
15KHz	15MHz	LCH	DFT-QPSK	22.86	22.90	22.88	16.45	38.45	Pass
15KHz	15MHz	LCH	DFT-16QAM	22.04	22.08	21.93	15.63	38.45	Pass
15KHz	15MHz	LCH	DFT-64QAM	20.57	20.65	20.38	14.20	38.45	Pass
15KHz	15MHz	LCH	DFT-256QAM	18.34	18.36	18.47	12.02	38.45	Pass
15KHz	15MHz	LCH	CP-QPSK	21.32	21.36	21.43	14.98	38.45	Pass
15KHz	15MHz	MCH	DFT-Pi2BPSK	22.81	22.98	22.93	16.53	38.45	Pass
15KHz	15MHz	MCH	DFT-QPSK	22.83	22.92	22.95	16.50	38.45	Pass
15KHz	15MHz	MCH	DFT-16QAM	21.95	22.13	21.97	15.68	38.45	Pass
15KHz	15MHz	MCH	DFT-64QAM	20.53	20.72	20.47	14.27	38.45	Pass

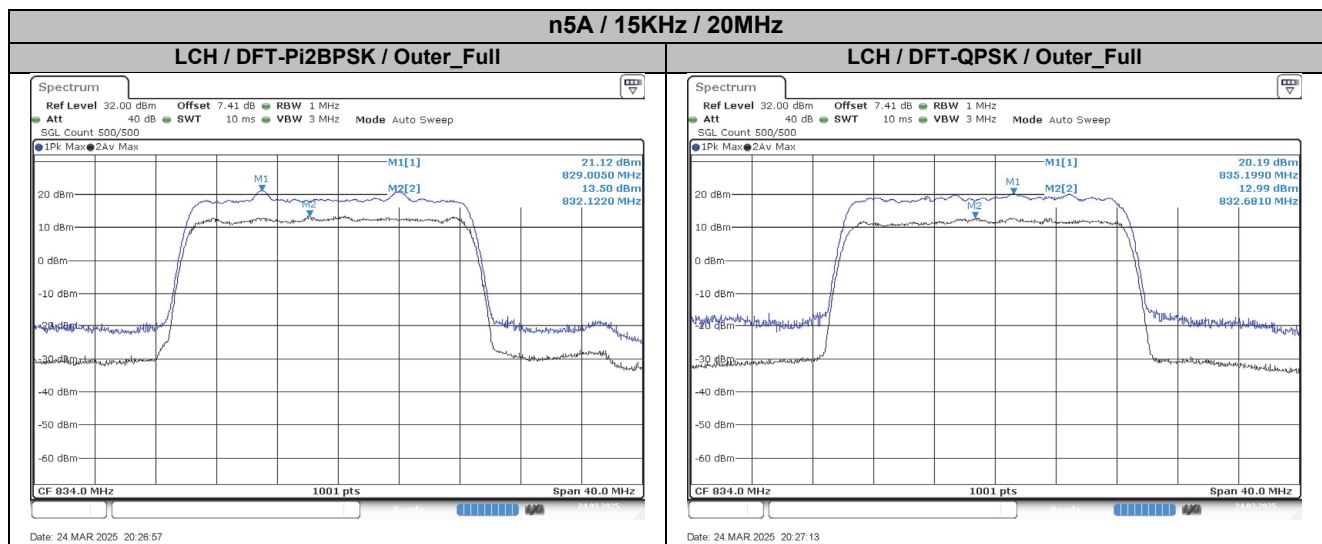
15KHz	15MHz	MCH	DFT-256QAM	18.33	18.45	18.48	12.03	38.45	Pass
15KHz	15MHz	MCH	CP-QPSK	21.24	21.37	21.46	15.01	38.45	Pass
15KHz	15MHz	HCH	DFT-Pi2BPSK	22.93	23.05	22.97	16.60	38.45	Pass
15KHz	15MHz	HCH	DFT-QPSK	22.87	23.03	22.97	16.58	38.45	Pass
15KHz	15MHz	HCH	DFT-16QAM	22.01	22.17	21.99	15.72	38.45	Pass
15KHz	15MHz	HCH	DFT-64QAM	20.61	20.79	20.50	14.34	38.45	Pass
15KHz	15MHz	HCH	DFT-256QAM	18.35	18.62	18.53	12.17	38.45	Pass
15KHz	15MHz	HCH	CP-QPSK	21.34	21.40	21.46	15.01	38.45	Pass
15KHz	20MHz	LCH	DFT-Pi2BPSK	22.90	22.99	22.96	16.54	38.45	Pass
15KHz	20MHz	LCH	DFT-QPSK	22.85	22.94	22.97	16.52	38.45	Pass
15KHz	20MHz	LCH	DFT-16QAM	22.02	22.14	21.95	15.69	38.45	Pass
15KHz	20MHz	LCH	DFT-64QAM	20.67	20.79	20.48	14.34	38.45	Pass
15KHz	20MHz	LCH	DFT-256QAM	18.36	18.45	18.49	12.04	38.45	Pass
15KHz	20MHz	LCH	CP-QPSK	21.35	21.33	21.47	15.02	38.45	Pass
15KHz	20MHz	MCH	DFT-Pi2BPSK	22.90	23.01	22.99	16.56	38.45	Pass
15KHz	20MHz	MCH	DFT-QPSK	22.88	22.99	22.96	16.54	38.45	Pass
15KHz	20MHz	MCH	DFT-16QAM	22.07	22.15	21.96	15.70	38.45	Pass
15KHz	20MHz	MCH	DFT-64QAM	20.60	20.77	20.47	14.32	38.45	Pass
15KHz	20MHz	MCH	DFT-256QAM	18.37	18.52	18.51	12.07	38.45	Pass
15KHz	20MHz	MCH	CP-QPSK	21.33	21.35	21.48	15.03	38.45	Pass
15KHz	20MHz	HCH	DFT-Pi2BPSK	22.84	23.05	22.95	16.60	38.45	Pass
15KHz	20MHz	HCH	DFT-QPSK	22.82	23.04	22.99	16.59	38.45	Pass
15KHz	20MHz	HCH	DFT-16QAM	21.92	22.18	21.95	15.73	38.45	Pass
15KHz	20MHz	HCH	DFT-64QAM	20.52	20.75	20.44	14.30	38.45	Pass
15KHz	20MHz	HCH	DFT-256QAM	18.36	18.55	18.53	12.10	38.45	Pass
15KHz	20MHz	HCH	CP-QPSK	21.19	21.39	21.46	15.01	38.45	Pass

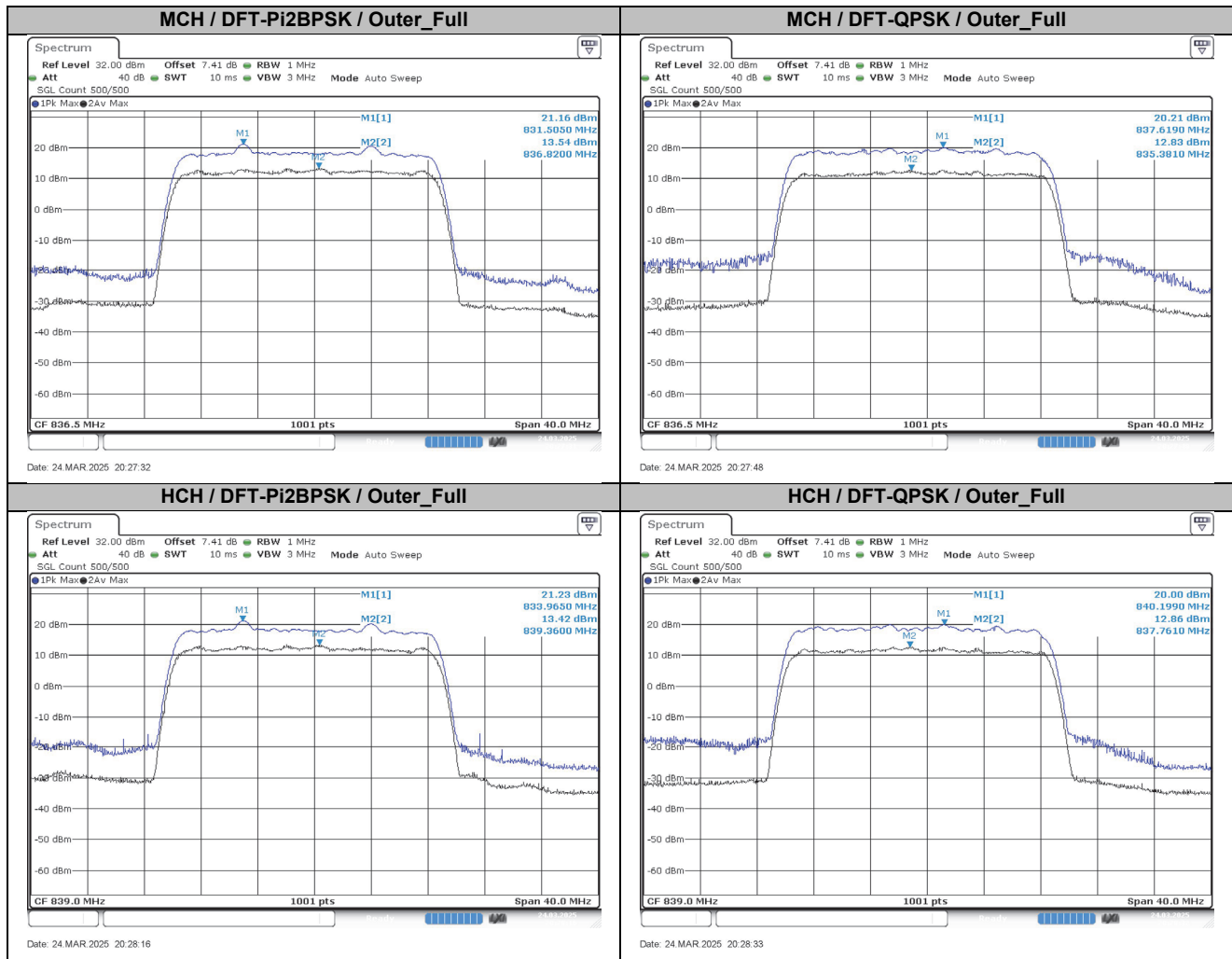
2. Peak-to-Average Ratio

2.1. Test Results

SCS	Bandwidth	Channel	RB	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
15KHz	20MHz	LCH	Outer_Full	7.62	7.21	13.00	Pass
15KHz	20MHz	MCH	Outer_Full	7.62	7.38	13.00	Pass
15KHz	20MHz	HCH	Outer_Full	7.81	7.15	13.00	Pass

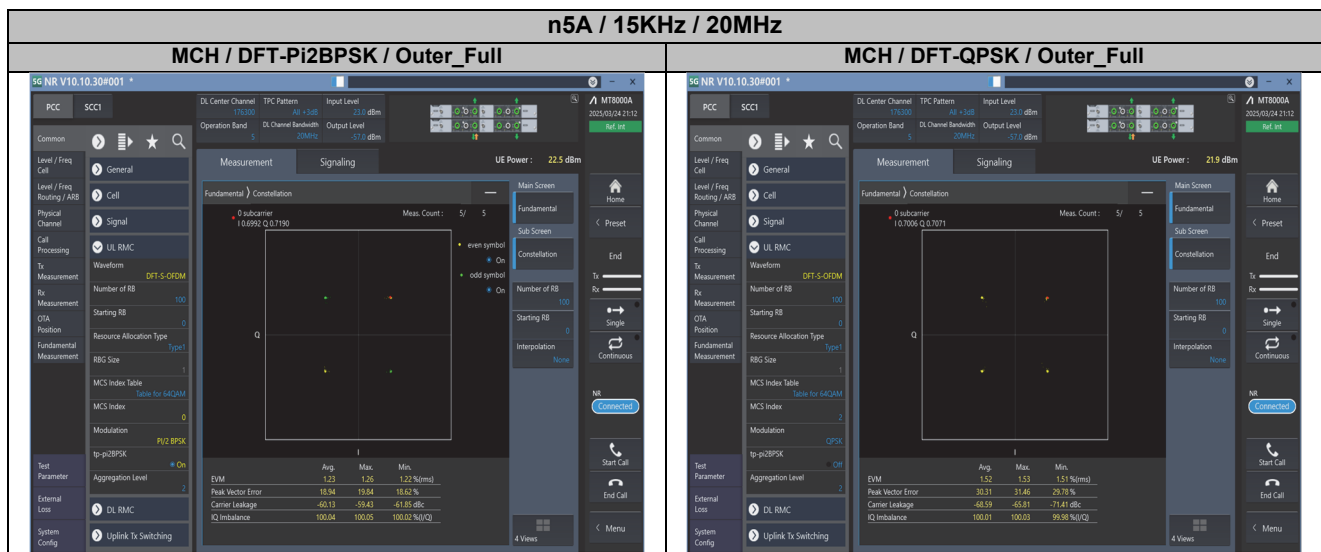
2.2. Test Plots for SCS=15KHz

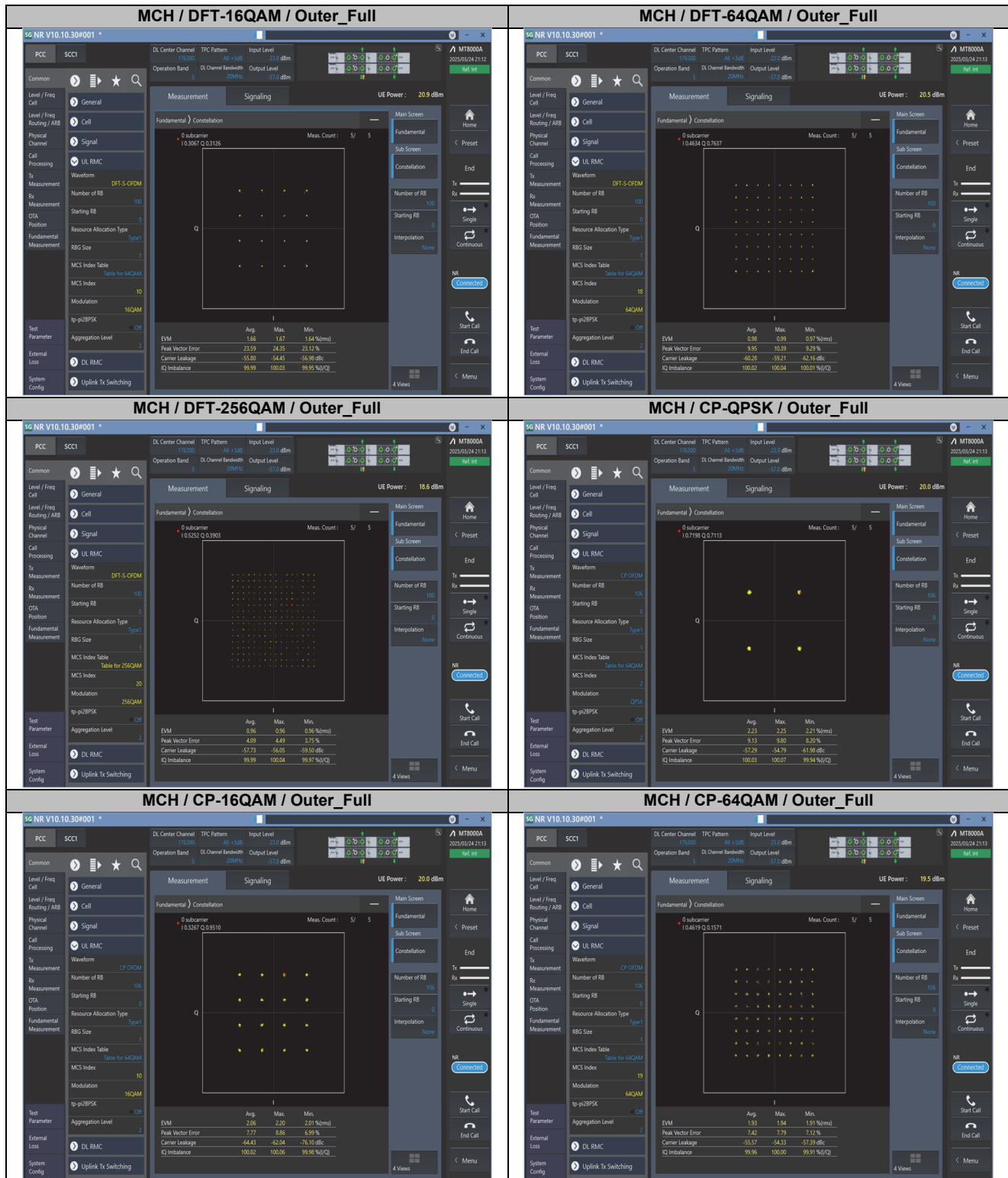


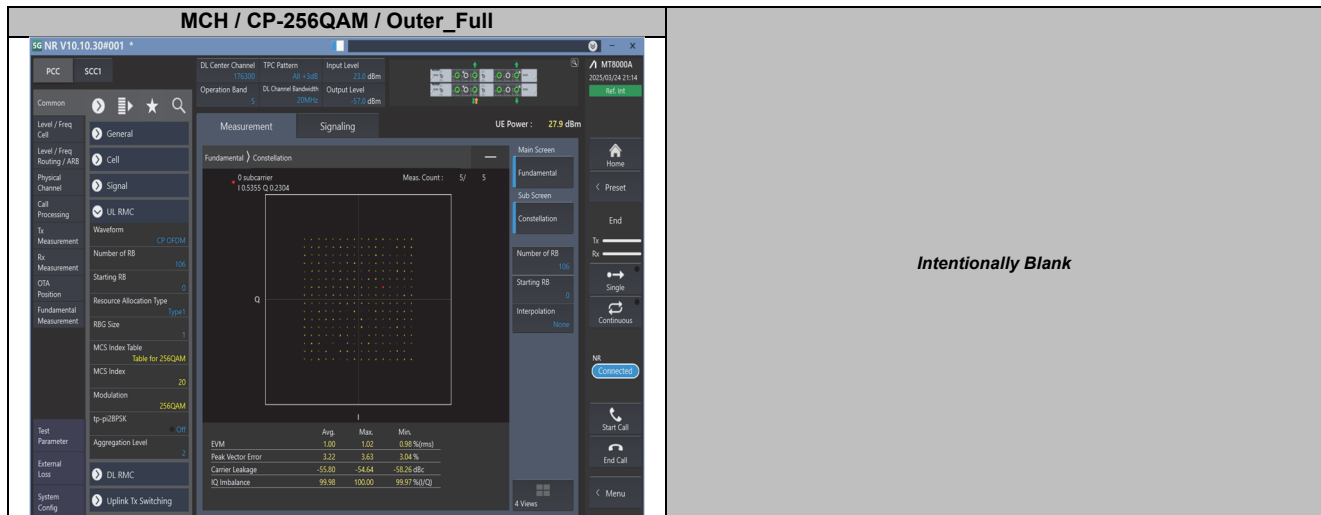


3. Modulation Characteristics

3.1. Test Plots for SCS=15KHz





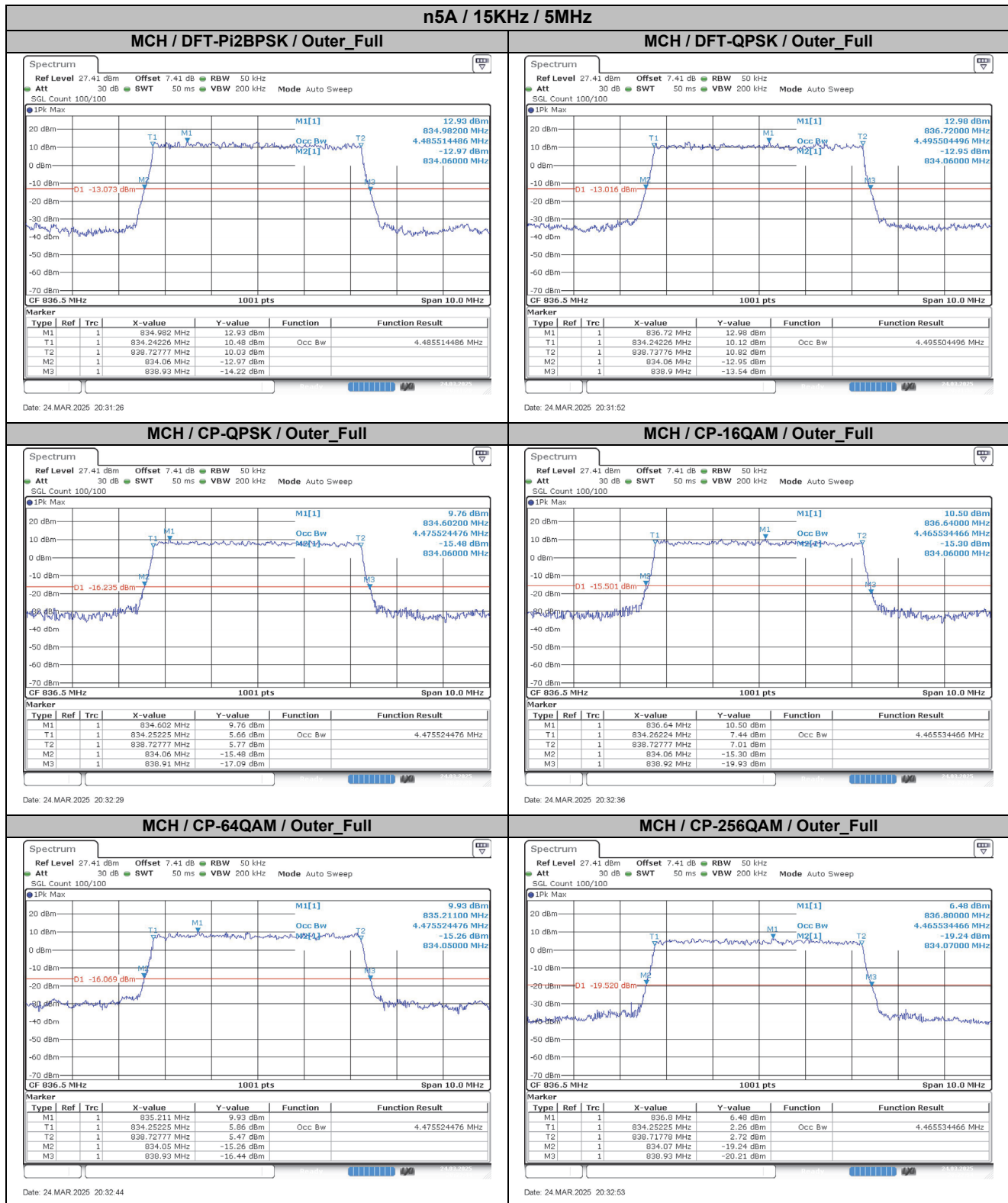


4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

4.1. Test Results

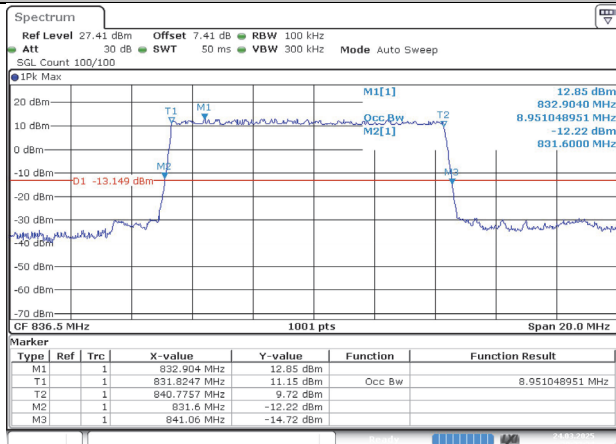
SCS	Bandwidth	Modulation	RB	99% Occupied Bandwidth (MHz)	26dB Emission Bandwidth (MHz)	Verdict
15KHz	5MHz	DFT-Pi2BPSK	Outer_Full	4.49	4.87	Pass
15KHz	5MHz	DFT-QPSK	Outer_Full	4.50	4.84	Pass
15KHz	5MHz	CP-QPSK	Outer_Full	4.48	4.85	Pass
15KHz	5MHz	CP-16QAM	Outer_Full	4.47	4.86	Pass
15KHz	5MHz	CP-64QAM	Outer_Full	4.48	4.88	Pass
15KHz	5MHz	CP-256QAM	Outer_Full	4.47	4.86	Pass
15KHz	10MHz	DFT-Pi2BPSK	Outer_Full	8.95	9.46	Pass
15KHz	10MHz	DFT-QPSK	Outer_Full	8.91	9.36	Pass
15KHz	10MHz	CP-QPSK	Outer_Full	9.27	9.82	Pass
15KHz	10MHz	CP-16QAM	Outer_Full	9.29	9.76	Pass
15KHz	10MHz	CP-64QAM	Outer_Full	9.27	9.76	Pass
15KHz	10MHz	CP-256QAM	Outer_Full	9.27	9.76	Pass
15KHz	15MHz	DFT-Pi2BPSK	Outer_Full	13.43	14.16	Pass
15KHz	15MHz	DFT-QPSK	Outer_Full	13.40	14.13	Pass
15KHz	15MHz	CP-QPSK	Outer_Full	14.09	14.82	Pass
15KHz	15MHz	CP-16QAM	Outer_Full	14.12	14.85	Pass
15KHz	15MHz	CP-64QAM	Outer_Full	14.09	14.85	Pass
15KHz	15MHz	CP-256QAM	Outer_Full	14.09	14.82	Pass
15KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.82	18.68	Pass
15KHz	20MHz	DFT-QPSK	Outer_Full	17.82	18.68	Pass
15KHz	20MHz	CP-QPSK	Outer_Full	18.86	19.76	Pass
15KHz	20MHz	CP-16QAM	Outer_Full	18.90	19.80	Pass
15KHz	20MHz	CP-64QAM	Outer_Full	18.94	19.76	Pass
15KHz	20MHz	CP-256QAM	Outer_Full	18.86	19.76	Pass

4.2. Test Plots for SCS=15KHz



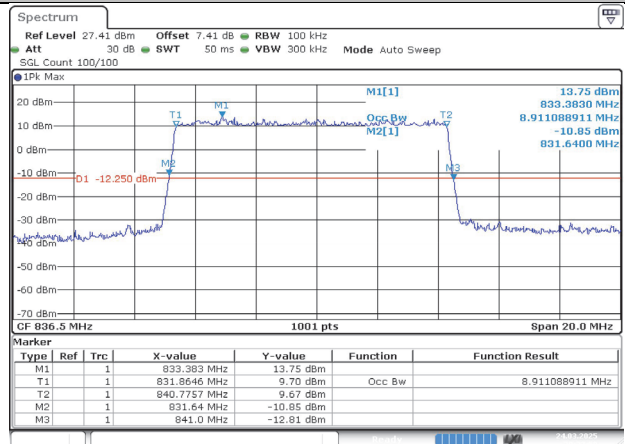
n5A / 15KHz / 10MHz

MCH / DFT-Pi2BPSK / Outer_Full



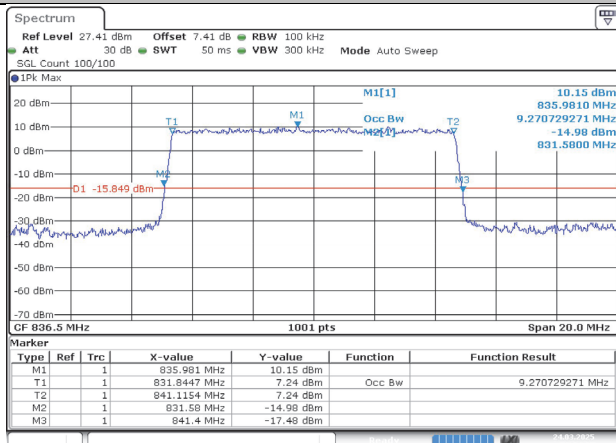
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MCH / DFT-QPSK / Outer_Full



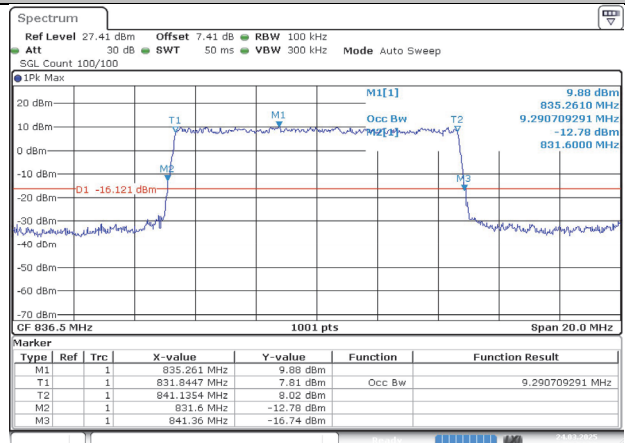
Date: 24 MAR 2025 20:33:50

MCH / CP-QPSK / Outer_Full



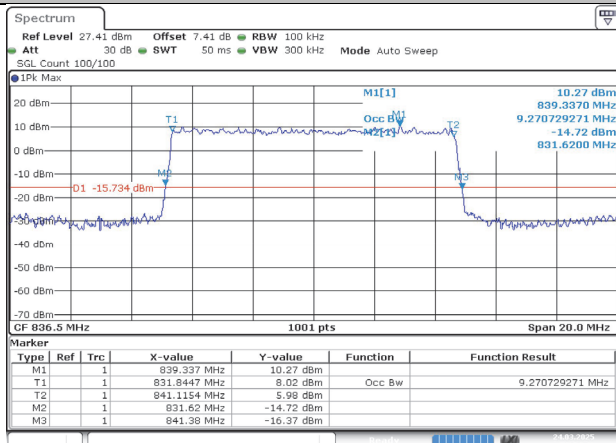
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MCH / CP-16QAM / Outer_Full



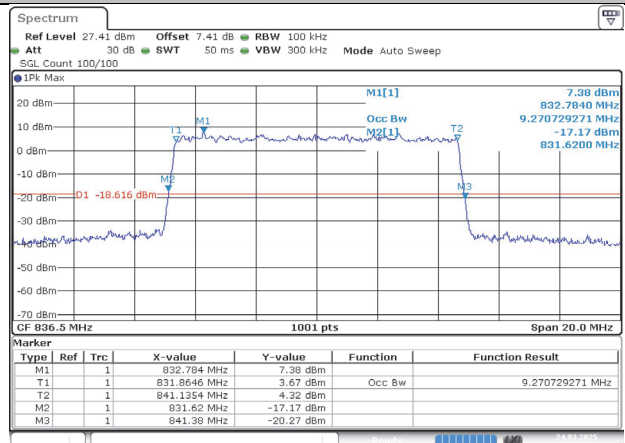
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MCH / CP-64QAM / Outer_Full



Date: 24 MAR 2025 20:34:43

MCH / CP-256QAM / Outer_Full



Date: 24 MAR 2025 20:34:53