

Appendix for DC_2A_n66A (1710-1780)

Catalogue

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1. Effective Isotropic Radiated Power

1.1. Test Results @ Ant1 (Antenna Gain=-1.80dBi)

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	23.20	23.20	23.23	21.43	30.00	Pass
15KHz	5MHz	LCH	DFT-QPSK	23.35	23.24	23.27	21.55	30.00	Pass
15KHz	5MHz	LCH	DFT-16QAM	22.33	22.35	22.22	20.55	30.00	Pass
15KHz	5MHz	LCH	DFT-64QAM	20.66	20.66	20.78	18.98	30.00	Pass
15KHz	5MHz	LCH	DFT-256QAM	18.29	18.45	18.65	16.85	30.00	Pass
15KHz	5MHz	LCH	CP-QPSK	21.69	21.73	21.64	19.93	30.00	Pass
15KHz	5MHz	MCH	DFT-Pi2BPSK	23.07	23.13	23.15	21.35	30.00	Pass
15KHz	5MHz	MCH	DFT-QPSK	23.09	23.09	23.12	21.32	30.00	Pass
15KHz	5MHz	MCH	DFT-16QAM	22.30	22.25	22.21	20.50	30.00	Pass
15KHz	5MHz	MCH	DFT-64QAM	20.57	20.53	20.74	18.94	30.00	Pass
15KHz	5MHz	MCH	DFT-256QAM	18.29	18.34	18.64	16.84	30.00	Pass
15KHz	5MHz	MCH	CP-QPSK	21.59	21.61	21.55	19.81	30.00	Pass
15KHz	5MHz	HCH	DFT-Pi2BPSK	23.31	23.34	23.36	21.56	30.00	Pass
15KHz	5MHz	HCH	DFT-QPSK	23.34	23.32	23.37	21.57	30.00	Pass
15KHz	5MHz	HCH	DFT-16QAM	22.54	22.56	22.47	20.76	30.00	Pass
15KHz	5MHz	HCH	DFT-64QAM	20.89	20.87	21.06	19.26	30.00	Pass
15KHz	5MHz	HCH	DFT-256QAM	18.54	18.59	18.87	17.07	30.00	Pass
15KHz	5MHz	HCH	CP-QPSK	21.87	21.83	21.85	20.07	30.00	Pass
15KHz	10MHz	LCH	DFT-Pi2BPSK	23.38	23.26	23.36	21.58	30.00	Pass
15KHz	10MHz	LCH	DFT-QPSK	23.34	23.21	23.39	21.59	30.00	Pass
15KHz	10MHz	LCH	DFT-16QAM	22.42	22.42	22.37	20.62	30.00	Pass
15KHz	10MHz	LCH	DFT-64QAM	20.68	20.72	20.76	18.96	30.00	Pass
15KHz	10MHz	LCH	DFT-256QAM	18.42	18.39	18.68	16.88	30.00	Pass
15KHz	10MHz	LCH	CP-QPSK	21.82	21.75	21.74	20.02	30.00	Pass
15KHz	10MHz	MCH	DFT-Pi2BPSK	23.06	23.03	23.15	21.35	30.00	Pass
15KHz	10MHz	MCH	DFT-QPSK	23.04	23.07	23.18	21.38	30.00	Pass
15KHz	10MHz	MCH	DFT-16QAM	22.29	22.34	22.20	20.54	30.00	Pass
15KHz	10MHz	MCH	DFT-64QAM	20.62	20.64	20.66	18.86	30.00	Pass
15KHz	10MHz	MCH	DFT-256QAM	18.36	18.37	18.67	16.87	30.00	Pass
15KHz	10MHz	MCH	CP-QPSK	21.62	21.71	21.69	19.91	30.00	Pass
15KHz	10MHz	HCH	DFT-Pi2BPSK	23.31	23.33	23.48	21.68	30.00	Pass
15KHz	10MHz	HCH	DFT-QPSK	23.31	23.27	23.46	21.66	30.00	Pass
15KHz	10MHz	HCH	DFT-16QAM	22.39	22.52	22.52	20.72	30.00	Pass
15KHz	10MHz	HCH	DFT-64QAM	20.65	20.88	20.99	19.19	30.00	Pass
15KHz	10MHz	HCH	DFT-256QAM	18.41	18.60	18.96	17.16	30.00	Pass
15KHz	10MHz	HCH	CP-QPSK	21.83	21.88	21.94	20.14	30.00	Pass
15KHz	15MHz	LCH	DFT-Pi2BPSK	23.39	23.37	23.40	21.60	30.00	Pass
15KHz	15MHz	LCH	DFT-QPSK	23.43	23.40	23.33	21.63	30.00	Pass
15KHz	15MHz	LCH	DFT-16QAM	22.41	22.42	22.38	20.62	30.00	Pass
15KHz	15MHz	LCH	DFT-64QAM	20.75	20.70	20.84	19.04	30.00	Pass
15KHz	15MHz	LCH	DFT-256QAM	18.46	18.39	18.76	16.96	30.00	Pass
15KHz	15MHz	LCH	CP-QPSK	22.04	21.69	21.85	20.24	30.00	Pass
15KHz	15MHz	MCH	DFT-Pi2BPSK	23.22	23.25	23.35	21.55	30.00	Pass
15KHz	15MHz	MCH	DFT-QPSK	23.17	23.29	23.35	21.55	30.00	Pass
15KHz	15MHz	MCH	DFT-16QAM	22.38	22.43	22.42	20.63	30.00	Pass
15KHz	15MHz	MCH	DFT-64QAM	20.63	20.78	20.88	19.08	30.00	Pass
15KHz	15MHz	MCH	DFT-256QAM	18.37	18.46	18.73	16.93	30.00	Pass
15KHz	15MHz	MCH	CP-QPSK	21.74	21.60	21.84	20.04	30.00	Pass
15KHz	15MHz	HCH	DFT-Pi2BPSK	23.41	23.48	23.50	21.70	30.00	Pass
15KHz	15MHz	HCH	DFT-QPSK	23.40	23.42	23.49	21.69	30.00	Pass
15KHz	15MHz	HCH	DFT-16QAM	22.47	22.67	22.55	20.87	30.00	Pass
15KHz	15MHz	HCH	DFT-64QAM	20.79	20.94	21.01	19.21	30.00	Pass
15KHz	15MHz	HCH	DFT-256QAM	18.55	18.67	18.87	17.07	30.00	Pass
15KHz	15MHz	HCH	CP-QPSK	21.85	21.86	21.99	20.19	30.00	Pass
15KHz	20MHz	LCH	DFT-Pi2BPSK	23.37	23.23	23.35	21.57	30.00	Pass
15KHz	20MHz	LCH	DFT-QPSK	23.30	23.24	23.31	21.51	30.00	Pass
15KHz	20MHz	LCH	DFT-16QAM	22.37	22.46	22.40	20.66	30.00	Pass
15KHz	20MHz	LCH	DFT-64QAM	20.74	20.72	20.92	19.12	30.00	Pass

15KHz	20MHz	LCH	DFT-256QAM	18.51	18.49	18.80	17.00	30.00	Pass
15KHz	20MHz	LCH	CP-QPSK	21.87	21.74	21.85	20.07	30.00	Pass
15KHz	20MHz	MCH	DFT-Pi2BPSK	23.23	23.29	23.24	21.49	30.00	Pass
15KHz	20MHz	MCH	DFT-QPSK	23.23	23.22	23.23	21.43	30.00	Pass
15KHz	20MHz	MCH	DFT-16QAM	22.36	22.48	22.42	20.68	30.00	Pass
15KHz	20MHz	MCH	DFT-64QAM	20.67	20.68	20.80	19.00	30.00	Pass
15KHz	20MHz	MCH	DFT-256QAM	18.40	18.45	18.80	17.00	30.00	Pass
15KHz	20MHz	MCH	CP-QPSK	21.80	21.76	21.83	20.03	30.00	Pass
15KHz	20MHz	HCH	DFT-Pi2BPSK	23.23	23.43	23.46	21.66	30.00	Pass
15KHz	20MHz	HCH	DFT-QPSK	23.19	23.44	23.31	21.64	30.00	Pass
15KHz	20MHz	HCH	DFT-16QAM	22.40	22.63	22.41	20.83	30.00	Pass
15KHz	20MHz	HCH	DFT-64QAM	20.72	20.99	20.96	19.19	30.00	Pass
15KHz	20MHz	HCH	DFT-256QAM	18.48	18.64	18.86	17.06	30.00	Pass
15KHz	20MHz	HCH	CP-QPSK	21.87	21.93	21.93	20.13	30.00	Pass
15KHz	25MHz	LCH	DFT-Pi2BPSK	23.49	23.35	23.31	21.69	30.00	Pass
15KHz	25MHz	LCH	DFT-QPSK	23.39	23.23	23.27	21.59	30.00	Pass
15KHz	25MHz	LCH	DFT-16QAM	22.50	22.47	22.30	20.70	30.00	Pass
15KHz	25MHz	LCH	DFT-64QAM	20.76	20.74	20.84	19.04	30.00	Pass
15KHz	25MHz	LCH	DFT-256QAM	18.53	18.46	18.75	16.95	30.00	Pass
15KHz	25MHz	LCH	CP-QPSK	21.99	21.78	21.80	20.19	30.00	Pass
15KHz	25MHz	MCH	DFT-Pi2BPSK	23.21	23.42	23.26	21.62	30.00	Pass
15KHz	25MHz	MCH	DFT-QPSK	23.21	23.41	23.24	21.61	30.00	Pass
15KHz	25MHz	MCH	DFT-16QAM	22.32	22.61	22.22	20.81	30.00	Pass
15KHz	25MHz	MCH	DFT-64QAM	20.67	20.89	20.81	19.09	30.00	Pass
15KHz	25MHz	MCH	DFT-256QAM	18.45	18.63	18.70	16.90	30.00	Pass
15KHz	25MHz	MCH	CP-QPSK	21.68	21.91	21.74	20.11	30.00	Pass
15KHz	25MHz	HCH	DFT-Pi2BPSK	23.30	23.57	23.46	21.77	30.00	Pass
15KHz	25MHz	HCH	DFT-QPSK	23.32	23.40	23.41	21.61	30.00	Pass
15KHz	25MHz	HCH	DFT-16QAM	22.62	22.68	22.46	20.88	30.00	Pass
15KHz	25MHz	HCH	DFT-64QAM	20.90	20.97	21.01	19.21	30.00	Pass
15KHz	25MHz	HCH	DFT-256QAM	18.63	18.84	18.86	17.06	30.00	Pass
15KHz	25MHz	HCH	CP-QPSK	21.95	22.09	21.94	20.29	30.00	Pass
15KHz	30MHz	LCH	DFT-Pi2BPSK	23.29	23.21	23.42	21.62	30.00	Pass
15KHz	30MHz	LCH	DFT-QPSK	23.39	23.26	23.38	21.59	30.00	Pass
15KHz	30MHz	LCH	DFT-16QAM	22.40	22.38	22.31	20.60	30.00	Pass
15KHz	30MHz	LCH	DFT-64QAM	20.67	20.71	20.75	18.95	30.00	Pass
15KHz	30MHz	LCH	DFT-256QAM	19.08	19.19	18.79	17.39	30.00	Pass
15KHz	30MHz	LCH	CP-QPSK	21.82	21.76	21.76	20.02	30.00	Pass
15KHz	30MHz	MCH	DFT-Pi2BPSK	23.06	23.30	23.20	21.50	30.00	Pass
15KHz	30MHz	MCH	DFT-QPSK	23.06	23.32	23.22	21.52	30.00	Pass
15KHz	30MHz	MCH	DFT-16QAM	22.17	22.48	22.35	20.68	30.00	Pass
15KHz	30MHz	MCH	DFT-64QAM	20.49	20.78	20.87	19.07	30.00	Pass
15KHz	30MHz	MCH	DFT-256QAM	18.42	18.57	18.80	17.00	30.00	Pass
15KHz	30MHz	MCH	CP-QPSK	21.64	21.79	21.87	20.07	30.00	Pass
15KHz	30MHz	HCH	DFT-Pi2BPSK	23.15	23.43	23.46	21.66	30.00	Pass
15KHz	30MHz	HCH	DFT-QPSK	23.19	23.72	23.52	21.92	30.00	Pass
15KHz	30MHz	HCH	DFT-16QAM	22.31	22.57	22.47	20.77	30.00	Pass
15KHz	30MHz	HCH	DFT-64QAM	20.60	20.85	21.04	19.24	30.00	Pass
15KHz	30MHz	HCH	DFT-256QAM	18.54	18.81	18.94	17.14	30.00	Pass
15KHz	30MHz	HCH	CP-QPSK	21.72	21.97	21.96	20.17	30.00	Pass
15KHz	40MHz	LCH	DFT-Pi2BPSK	23.22	23.28	23.30	21.50	30.00	Pass
15KHz	40MHz	LCH	DFT-QPSK	23.15	23.32	23.39	21.59	30.00	Pass
15KHz	40MHz	LCH	DFT-16QAM	22.37	22.49	22.35	20.69	30.00	Pass
15KHz	40MHz	LCH	DFT-64QAM	20.61	20.79	20.87	19.07	30.00	Pass
15KHz	40MHz	LCH	DFT-256QAM	18.65	18.67	18.85	17.05	30.00	Pass
15KHz	40MHz	LCH	CP-QPSK	21.75	21.80	21.79	20.00	30.00	Pass
15KHz	40MHz	MCH	DFT-Pi2BPSK	23.08	23.32	23.26	21.52	30.00	Pass
15KHz	40MHz	MCH	DFT-QPSK	23.15	23.40	23.26	21.60	30.00	Pass
15KHz	40MHz	MCH	DFT-16QAM	22.10	22.58	22.34	20.78	30.00	Pass
15KHz	40MHz	MCH	DFT-64QAM	20.42	20.80	20.79	19.00	30.00	Pass
15KHz	40MHz	MCH	DFT-256QAM	18.43	18.70	18.75	16.95	30.00	Pass
15KHz	40MHz	MCH	CP-QPSK	21.60	21.89	21.76	20.09	30.00	Pass

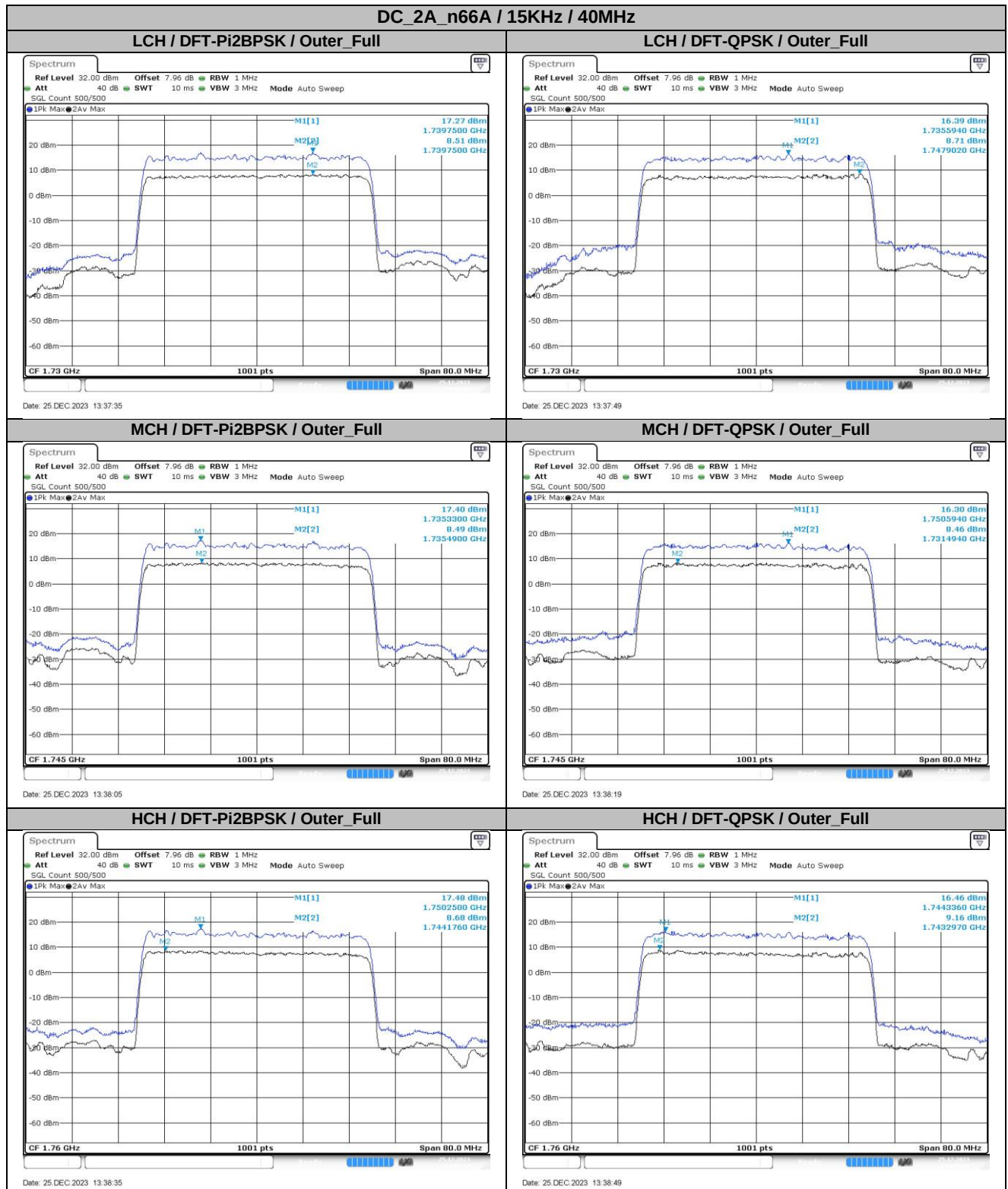
15KHz	40MHz	HCH	DFT-Pi2BPSK	22.96	23.40	23.34	21.60	30.00	Pass
15KHz	40MHz	HCH	DFT-QPSK	23.06	23.34	23.43	21.63	30.00	Pass
15KHz	40MHz	HCH	DFT-16QAM	22.28	22.53	22.44	20.73	30.00	Pass
15KHz	40MHz	HCH	DFT-64QAM	20.62	20.83	20.89	19.09	30.00	Pass
15KHz	40MHz	HCH	DFT-256QAM	18.51	18.70	18.90	17.10	30.00	Pass
15KHz	40MHz	HCH	CP-QPSK	21.65	21.89	21.96	20.16	30.00	Pass

2. Peak-to-Average Ratio

2.1. Test Results

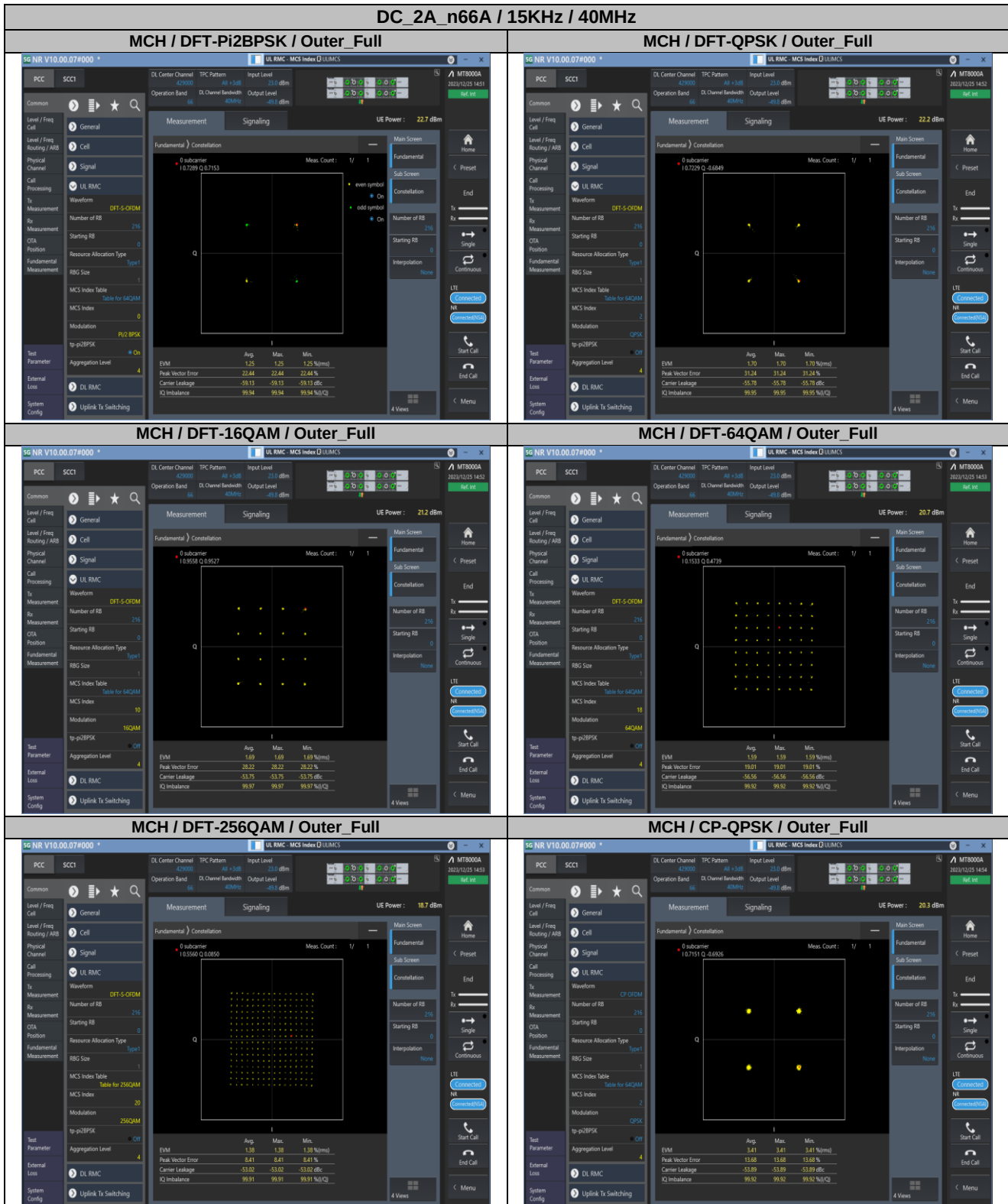
SCS	Bandwidth	Channel	Modulation	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
15KHz	40MHz	LCH	Outer_Full	8.75	7.68	13.00	Pass
15KHz	40MHz	MCH	Outer_Full	8.90	7.84	13.00	Pass
15KHz	40MHz	HCH	Outer_Full	8.79	7.30	13.00	Pass

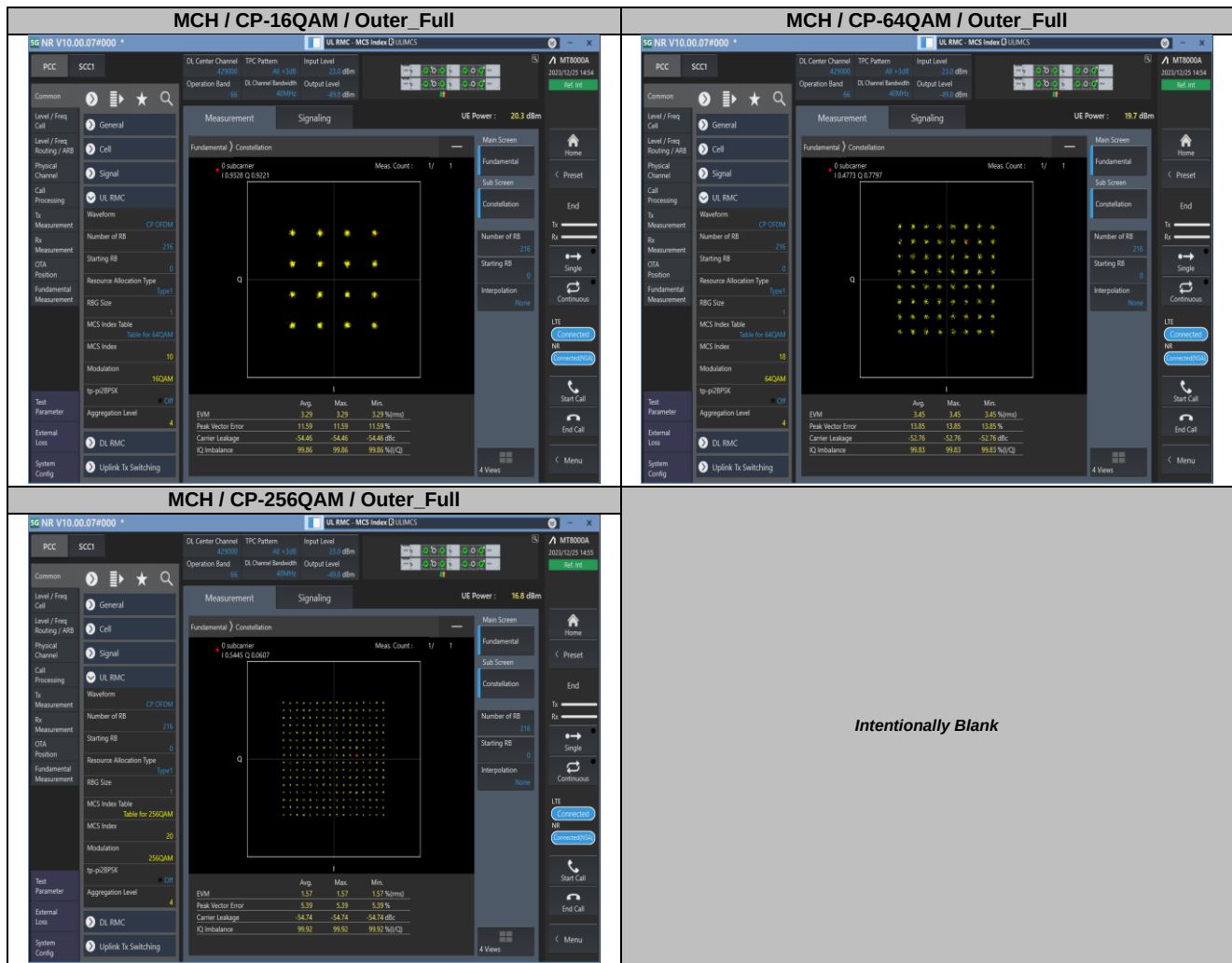
2.2. Test Plots



3. Modulation Characteristics

3.1. Test Plots



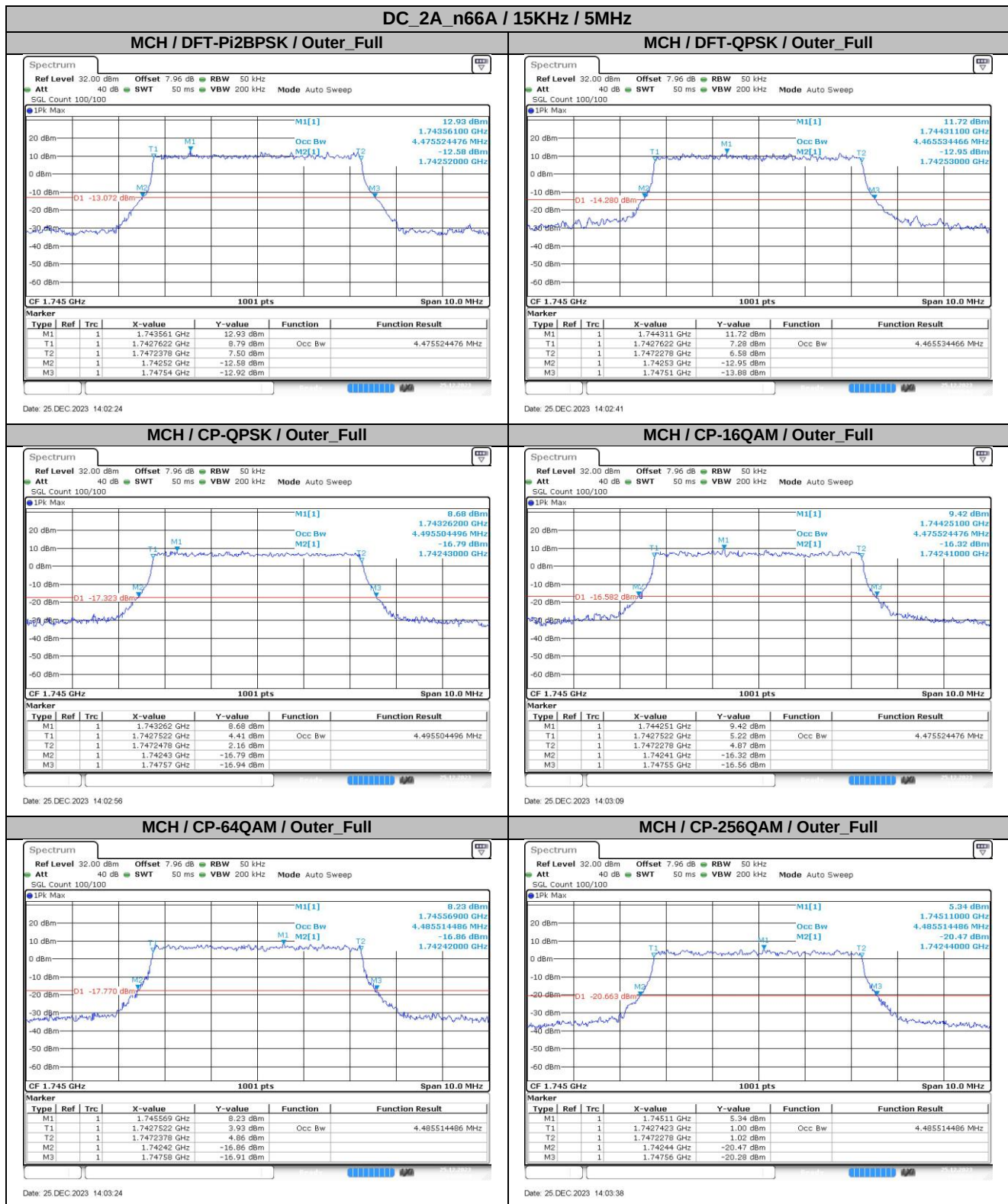


4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

4.1. Test Results

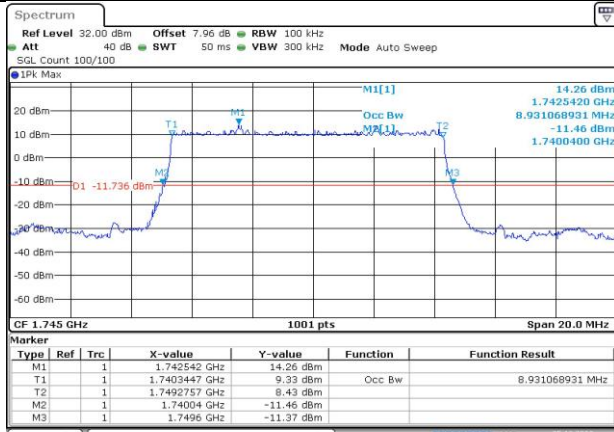
SCS	Bandwidth	Modulation	RB Config	99% Occupied Bandwidth (MHz)	26dB Emission Bandwidth (MHz)	Verdict
15KHz	5MHz	DFT-Pi2BPSK	Outer_Full	4.48	5.02	Pass
15KHz	5MHz	DFT-QPSK	Outer_Full	4.47	4.98	Pass
15KHz	5MHz	CP-QPSK	Outer_Full	4.50	5.14	Pass
15KHz	5MHz	CP-16QAM	Outer_Full	4.48	5.14	Pass
15KHz	5MHz	CP-64QAM	Outer_Full	4.49	5.16	Pass
15KHz	5MHz	CP-256QAM	Outer_Full	4.49	5.12	Pass
15KHz	10MHz	DFT-Pi2BPSK	Outer_Full	8.93	9.56	Pass
15KHz	10MHz	DFT-QPSK	Outer_Full	8.93	9.64	Pass
15KHz	10MHz	CP-QPSK	Outer_Full	9.29	10.08	Pass
15KHz	10MHz	CP-16QAM	Outer_Full	9.27	10.08	Pass
15KHz	10MHz	CP-64QAM	Outer_Full	9.29	10.08	Pass
15KHz	10MHz	CP-256QAM	Outer_Full	9.31	10.16	Pass
15KHz	15MHz	DFT-Pi2BPSK	Outer_Full	13.43	14.49	Pass
15KHz	15MHz	DFT-QPSK	Outer_Full	13.43	14.49	Pass
15KHz	15MHz	CP-QPSK	Outer_Full	14.15	15.21	Pass
15KHz	15MHz	CP-16QAM	Outer_Full	14.12	15.12	Pass
15KHz	15MHz	CP-64QAM	Outer_Full	14.12	15.18	Pass
15KHz	15MHz	CP-256QAM	Outer_Full	14.09	15.18	Pass
15KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.82	18.84	Pass
15KHz	20MHz	DFT-QPSK	Outer_Full	17.86	18.80	Pass
15KHz	20MHz	CP-QPSK	Outer_Full	18.90	20.04	Pass
15KHz	20MHz	CP-16QAM	Outer_Full	18.94	20.12	Pass
15KHz	20MHz	CP-64QAM	Outer_Full	18.94	20.00	Pass
15KHz	20MHz	CP-256QAM	Outer_Full	18.98	20.08	Pass
15KHz	25MHz	DFT-Pi2BPSK	Outer_Full	22.83	24.05	Pass
15KHz	25MHz	DFT-QPSK	Outer_Full	22.98	24.05	Pass
15KHz	25MHz	CP-QPSK	Outer_Full	23.73	24.95	Pass
15KHz	25MHz	CP-16QAM	Outer_Full	23.73	24.95	Pass
15KHz	25MHz	CP-64QAM	Outer_Full	23.73	24.90	Pass
15KHz	25MHz	CP-256QAM	Outer_Full	23.73	24.90	Pass
15KHz	30MHz	DFT-Pi2BPSK	Outer_Full	28.59	29.76	Pass
15KHz	30MHz	DFT-QPSK	Outer_Full	28.59	29.82	Pass
15KHz	30MHz	CP-QPSK	Outer_Full	28.47	29.82	Pass
15KHz	30MHz	CP-16QAM	Outer_Full	28.53	29.94	Pass
15KHz	30MHz	CP-64QAM	Outer_Full	28.53	29.82	Pass
15KHz	30MHz	CP-256QAM	Outer_Full	28.59	29.82	Pass
15KHz	40MHz	DFT-Pi2BPSK	Outer_Full	38.44	40.08	Pass
15KHz	40MHz	DFT-QPSK	Outer_Full	38.60	40.16	Pass
15KHz	40MHz	CP-QPSK	Outer_Full	38.44	40.32	Pass
15KHz	40MHz	CP-16QAM	Outer_Full	38.52	40.16	Pass
15KHz	40MHz	CP-64QAM	Outer_Full	38.52	40.32	Pass
15KHz	40MHz	CP-256QAM	Outer_Full	38.52	40.24	Pass

4.2. Test Plots



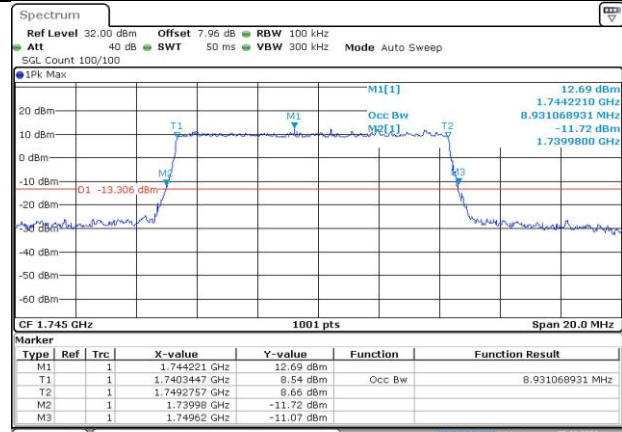
DC_2A_n66A / 15KHz / 10MHz

MCH / DFT-Pi2BPSK / Outer_Full



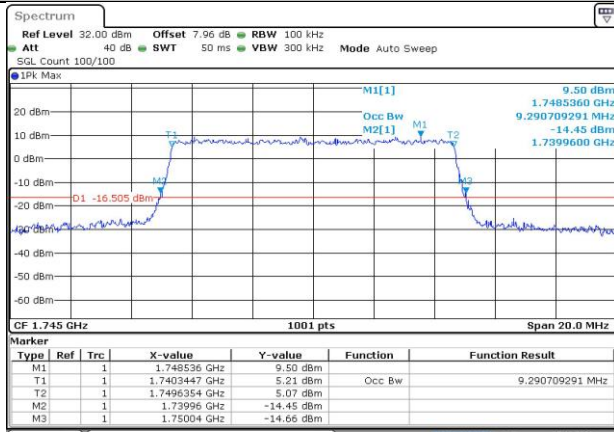
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MCH / DFT-QPSK / Outer_Full



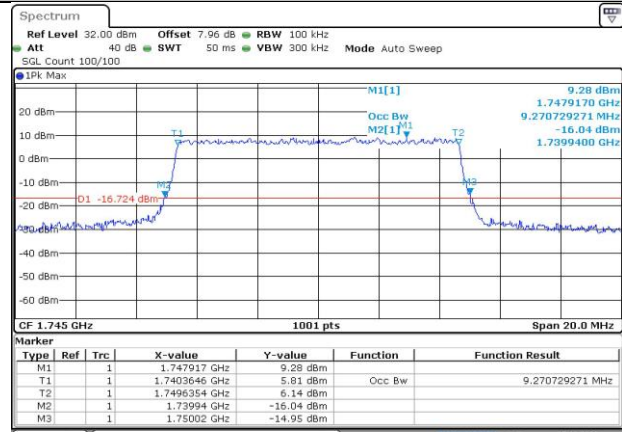
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MCH / CP-QPSK / Outer_Full



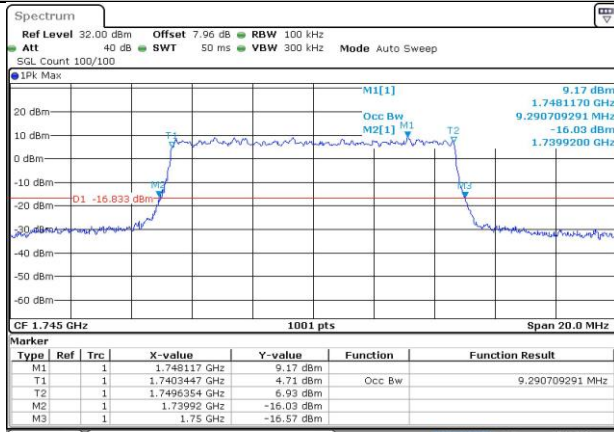
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MCH / CP-16QAM / Outer_Full



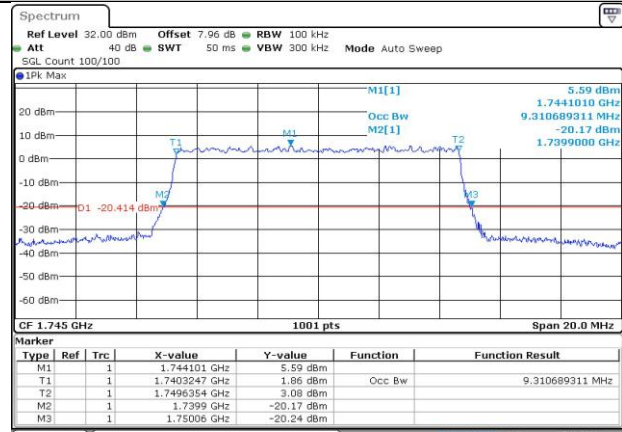
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MCH / CP-64QAM / Outer_Full



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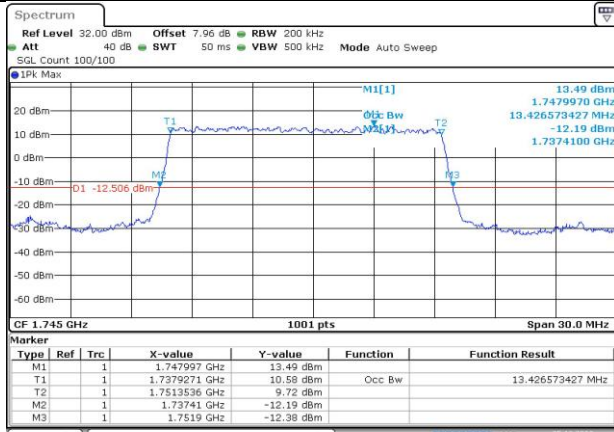
MCH / CP-256QAM / Outer_Full



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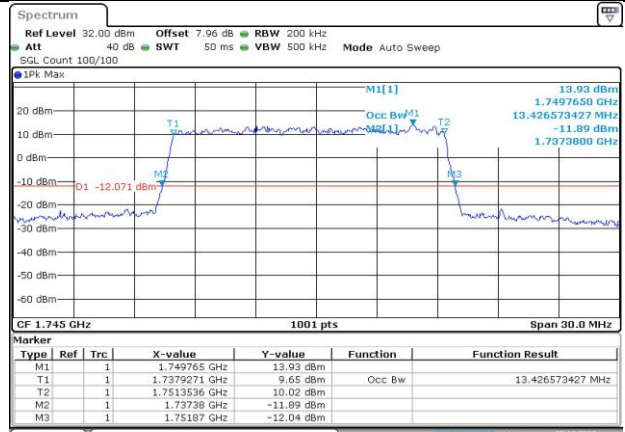
DC_2A_n66A / 15KHz / 15MHz

MCH / DFT-Pi2BPSK / Outer_Full



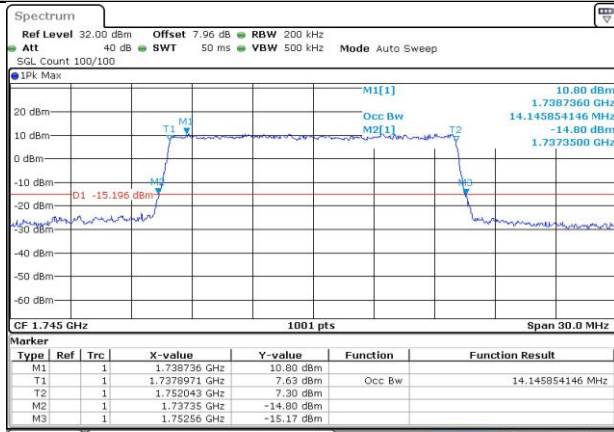
Date: 25 DEC 2023 14:05:25

MCH / DFT-QPSK / Outer_Full



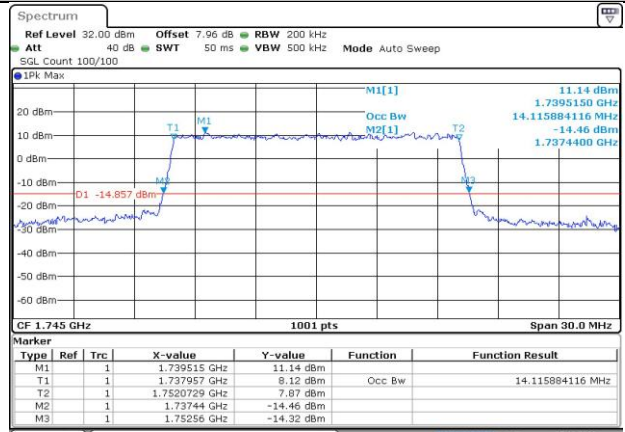
Date: 25 DEC 2023 14:05:40

MCH / CP-QPSK / Outer_Full



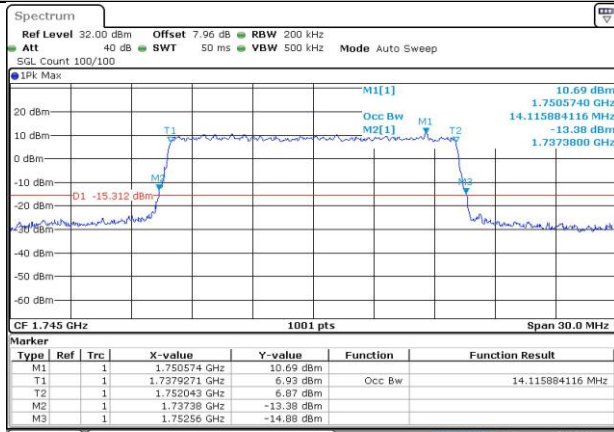
Date: 25 DEC 2023 14:05:54

MCH / CP-16QAM / Outer_Full



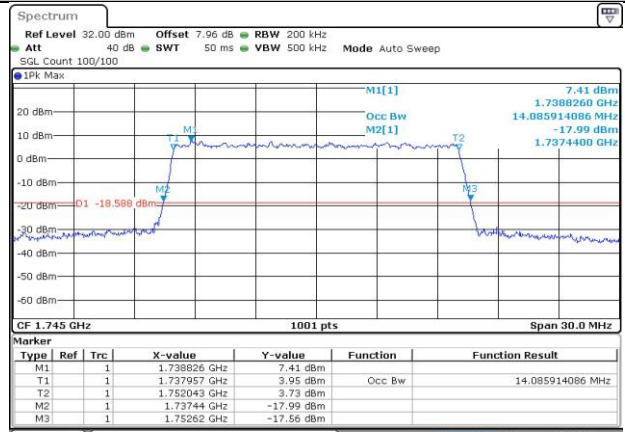
Date: 25 DEC 2023 14:06:08

MCH / CP-64QAM / Outer_Full



Date: 25 DEC 2023 14:06:23

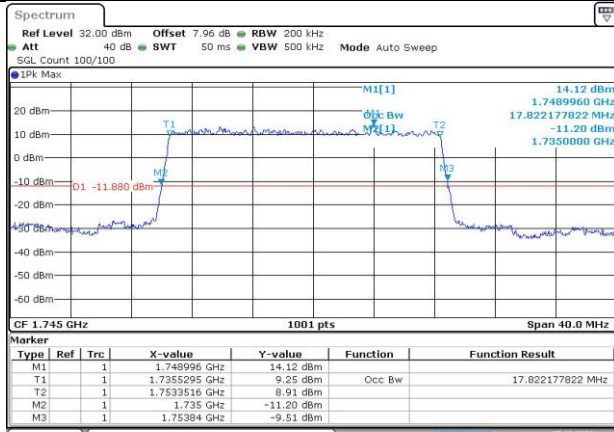
MCH / CP-256QAM / Outer_Full



Date: 25 DEC 2023 14:06:38

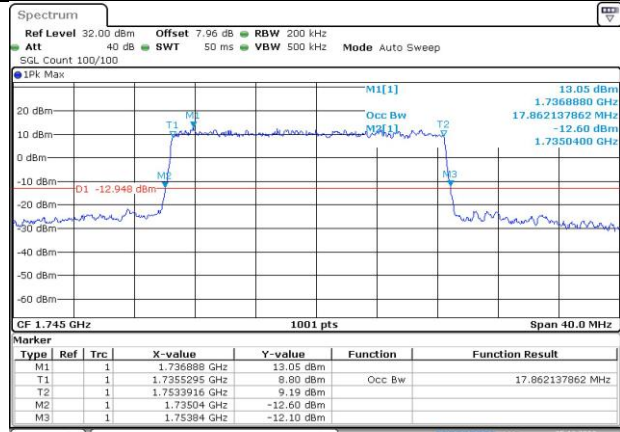
DC_2A_n66A / 15KHz / 20MHz

MCH / DFT-Pi2BPSK / Outer_Full



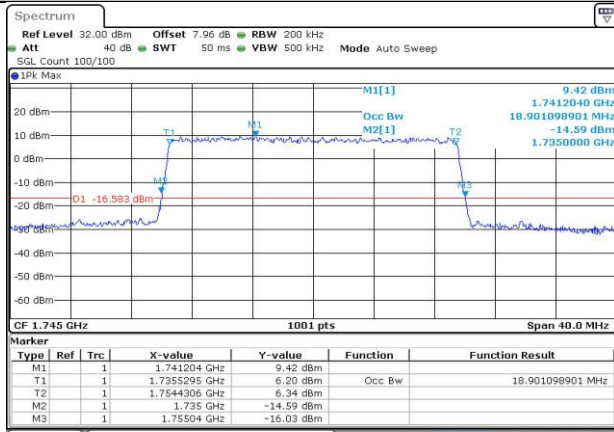
Date: 25 DEC 2023 14:06:57

MCH / DFT-QPSK / Outer_Full



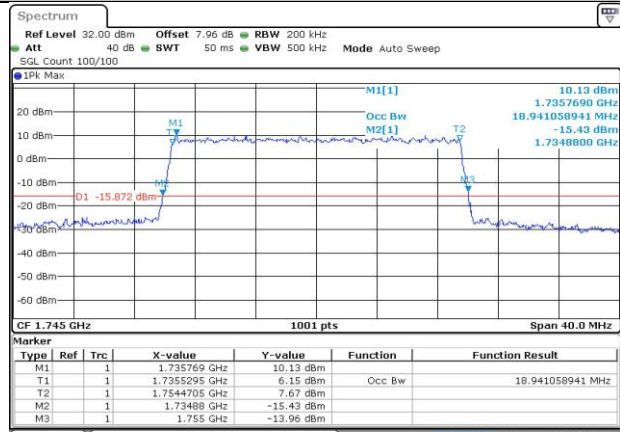
Date: 25 DEC 2023 14:07:13

MCH / CP-QPSK / Outer_Full



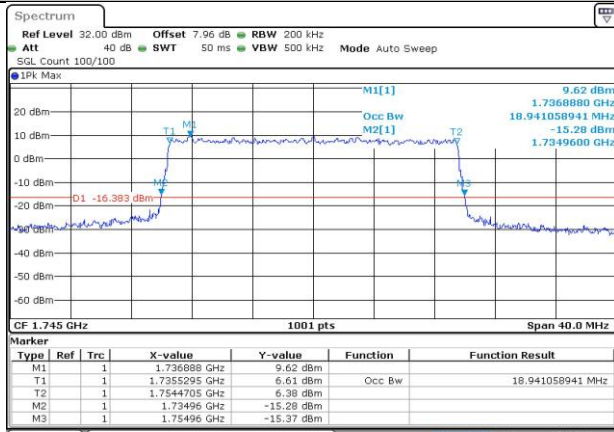
Date: 25 DEC 2023 14:07:27

MCH / CP-16QAM / Outer_Full



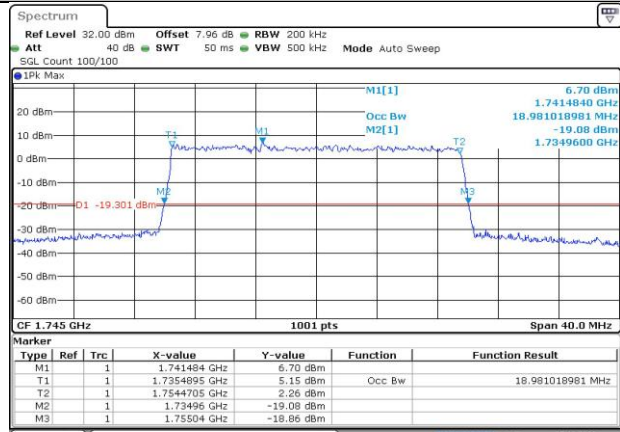
Date: 25 DEC 2023 14:07:42

MCH / CP-64QAM / Outer_Full

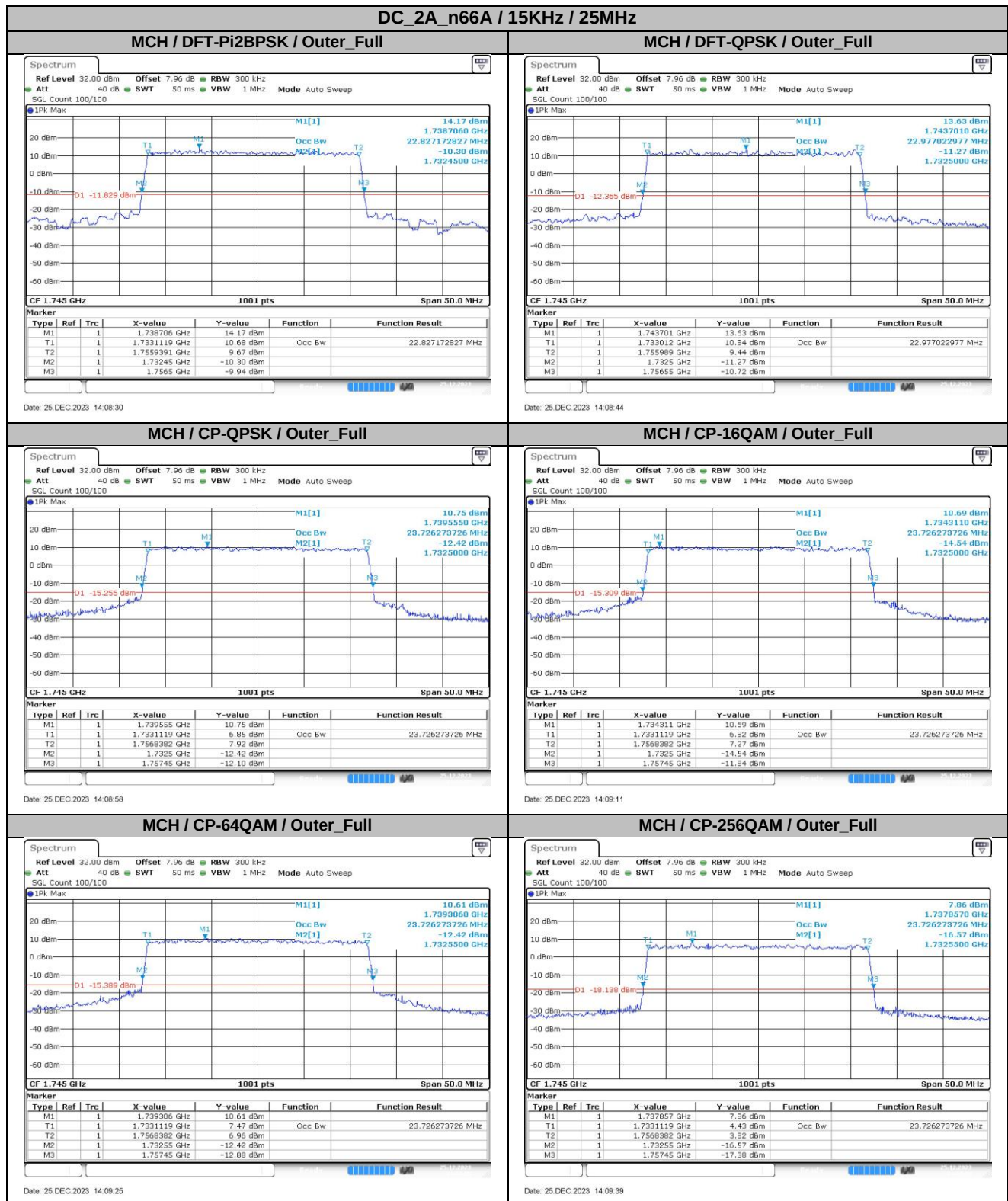


Date: 25 DEC 2023 14:07:57

MCH / CP-256QAM / Outer_Full

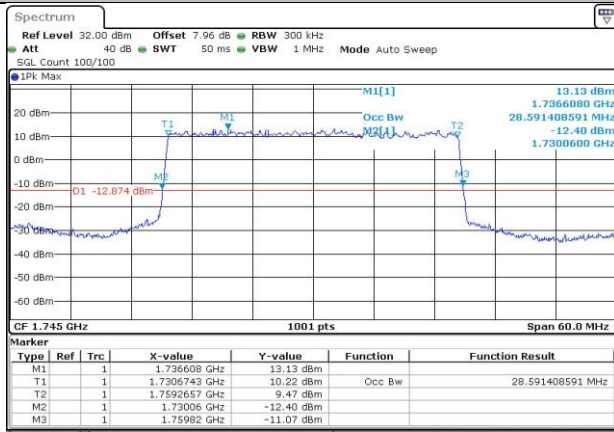


Date: 25 DEC 2023 14:08:13



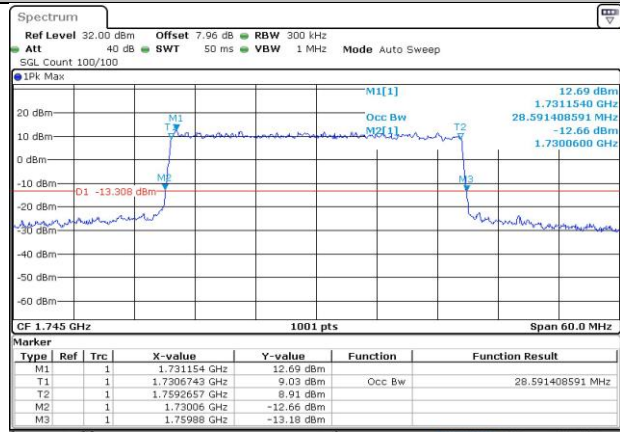
DC_2A_n66A / 15KHz / 30MHz

MCH / DFT-Pi2BPSK / Outer_Full



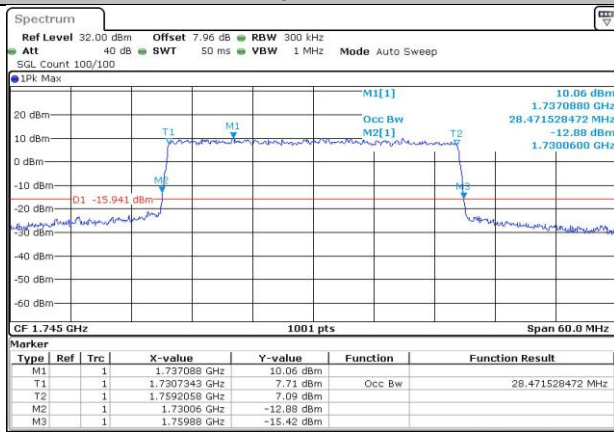
Date: 25 DEC 2023 14:09:56

MCH / DFT-QPSK / Outer_Full



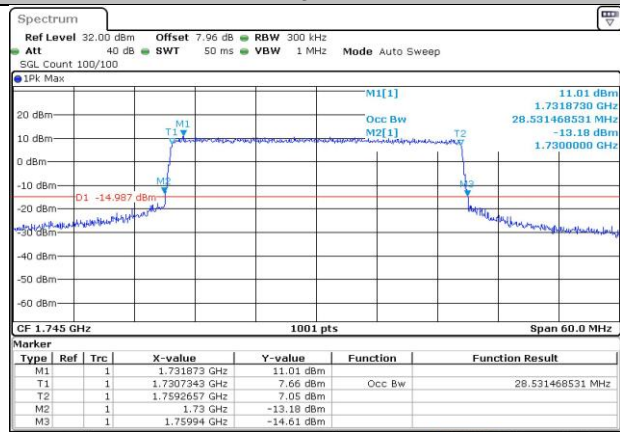
Date: 25 DEC 2023 14:10:11

MCH / CP-QPSK / Outer_Full



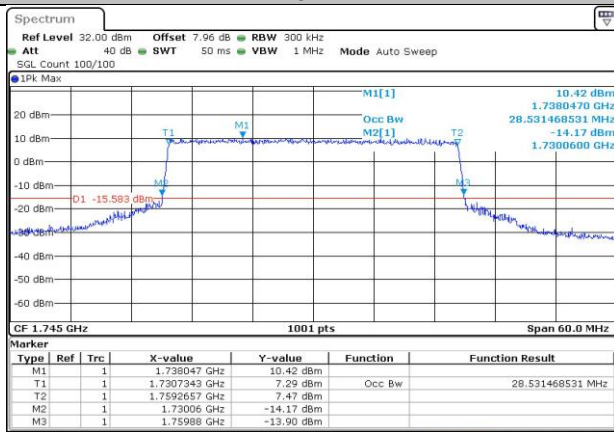
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MCH / CP-16QAM / Outer_Full



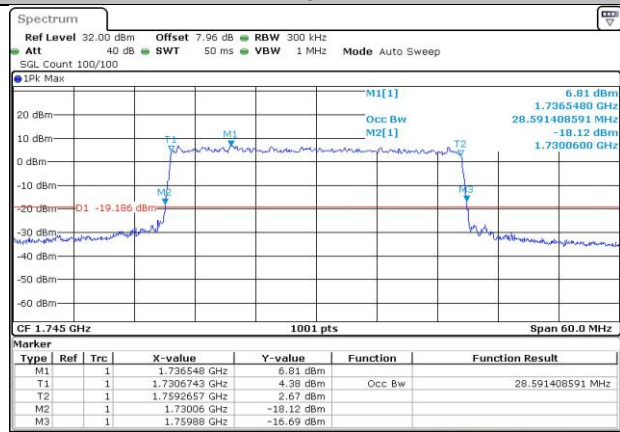
Date: 25 DEC 2023 14:10:38

MCH / CP-64QAM / Outer_Full

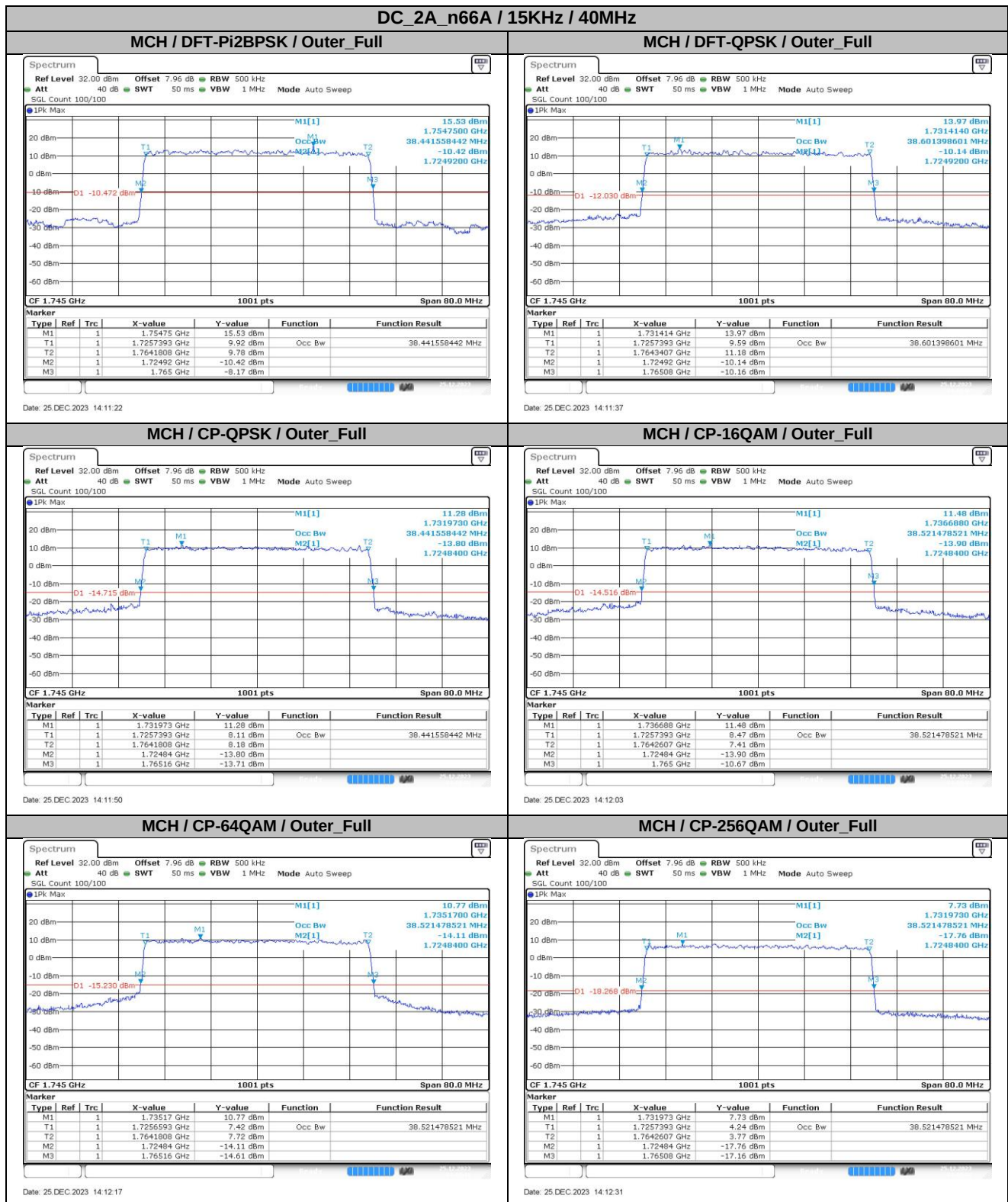


Date: 25 DEC 2023 14:10:51

MCH / CP-256QAM / Outer_Full



Date: 25 DEC 2023 14:11:05



5. Conducted Band Edges

5.1. Test Plots

