

**Appendix
for
DC_2A_n7A
(2500-2570)**

Catalogue

1.	EFFECTIVE ISOTROPIC RADIATED POWER	3
1.1.	TEST RESULTS @ ANT4 (ANTENNA GAIN=-2.00DBI).....	3
2.	PEAK-TO-AVERAGE RATIO	5
2.1.	TEST RESULTS	5
2.2.	TEST PLOTS.....	5
3.	MODULATION CHARACTERISTICS	6
3.1.	TEST PLOTS.....	6
4.	99% OCCUPIED BANDWIDTH & 26DB EMISSION BANDWIDTH	8
4.1.	TEST RESULTS	8
4.2.	TEST PLOTS.....	9
5.	CONDUCTED BAND EDGES	16
5.1.	TEST PLOTS.....	16
6.	CONDUCTED SPURIOUS EMISSION	25
6.1.	TEST PLOTS.....	25
7.	FREQUENCY STABILITY	32
7.1.	TEST RESULTS	32

1. Effective Isotropic Radiated Power

1.1. Test Results @ Ant4 (Antenna Gain=-2.00dBi)

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	22.90	23.00	23.06	21.06	33.00	Pass
15KHz	5MHz	LCH	DFT-QPSK	23.03	22.98	23.00	21.03	33.00	Pass
15KHz	5MHz	LCH	DFT-16QAM	21.87	22.00	22.05	20.05	33.00	Pass
15KHz	5MHz	LCH	DFT-64QAM	20.44	20.49	20.56	18.56	33.00	Pass
15KHz	5MHz	LCH	DFT-256QAM	18.43	18.64	18.53	16.64	33.00	Pass
15KHz	5MHz	LCH	CP-QPSK	21.45	21.55	21.45	19.55	33.00	Pass
15KHz	5MHz	MCH	DFT-Pi2BPSK	23.01	23.05	23.10	21.10	33.00	Pass
15KHz	5MHz	MCH	DFT-QPSK	22.96	22.98	23.01	21.01	33.00	Pass
15KHz	5MHz	MCH	DFT-16QAM	21.80	21.83	22.21	20.21	33.00	Pass
15KHz	5MHz	MCH	DFT-64QAM	20.65	20.81	20.78	18.81	33.00	Pass
15KHz	5MHz	MCH	DFT-256QAM	18.22	18.25	18.61	16.61	33.00	Pass
15KHz	5MHz	MCH	CP-QPSK	21.56	21.62	21.50	19.62	33.00	Pass
15KHz	5MHz	HCH	DFT-Pi2BPSK	22.87	22.89	22.97	20.97	33.00	Pass
15KHz	5MHz	HCH	DFT-QPSK	22.90	22.89	23.03	21.03	33.00	Pass
15KHz	5MHz	HCH	DFT-16QAM	21.76	21.83	22.12	20.12	33.00	Pass
15KHz	5MHz	HCH	DFT-64QAM	20.70	20.64	20.65	18.70	33.00	Pass
15KHz	5MHz	HCH	DFT-256QAM	18.24	18.24	18.56	16.56	33.00	Pass
15KHz	5MHz	HCH	CP-QPSK	21.50	21.53	21.49	19.53	33.00	Pass
15KHz	10MHz	LCH	DFT-Pi2BPSK	23.15	23.22	23.29	21.29	33.00	Pass
15KHz	10MHz	LCH	DFT-QPSK	23.01	23.12	23.31	21.31	33.00	Pass
15KHz	10MHz	LCH	DFT-16QAM	22.28	22.32	22.29	20.32	33.00	Pass
15KHz	10MHz	LCH	DFT-64QAM	21.05	21.06	20.77	19.06	33.00	Pass
15KHz	10MHz	LCH	DFT-256QAM	18.43	18.49	18.67	16.67	33.00	Pass
15KHz	10MHz	LCH	CP-QPSK	21.53	21.62	21.69	19.69	33.00	Pass
15KHz	10MHz	MCH	DFT-Pi2BPSK	23.27	23.31	23.40	21.40	33.00	Pass
15KHz	10MHz	MCH	DFT-QPSK	23.12	23.22	23.39	21.39	33.00	Pass
15KHz	10MHz	MCH	DFT-16QAM	21.85	21.96	22.38	20.38	33.00	Pass
15KHz	10MHz	MCH	DFT-64QAM	21.08	21.19	20.85	19.19	33.00	Pass
15KHz	10MHz	MCH	DFT-256QAM	18.36	18.48	18.77	16.77	33.00	Pass
15KHz	10MHz	MCH	CP-QPSK	21.73	21.71	21.79	19.79	33.00	Pass
15KHz	10MHz	HCH	DFT-Pi2BPSK	23.12	23.09	23.29	21.29	33.00	Pass
15KHz	10MHz	HCH	DFT-QPSK	23.08	23.07	23.27	21.27	33.00	Pass
15KHz	10MHz	HCH	DFT-16QAM	22.12	22.09	22.28	20.28	33.00	Pass
15KHz	10MHz	HCH	DFT-64QAM	20.51	20.46	20.71	18.71	33.00	Pass
15KHz	10MHz	HCH	DFT-256QAM	18.36	18.29	18.67	16.67	33.00	Pass
15KHz	10MHz	HCH	CP-QPSK	21.61	21.58	21.66	19.66	33.00	Pass
15KHz	15MHz	LCH	DFT-Pi2BPSK	23.26	23.25	23.30	21.30	33.00	Pass
15KHz	15MHz	LCH	DFT-QPSK	23.14	23.14	23.37	21.37	33.00	Pass
15KHz	15MHz	LCH	DFT-16QAM	22.04	21.95	22.43	20.43	33.00	Pass
15KHz	15MHz	LCH	DFT-64QAM	21.15	21.13	20.89	19.15	33.00	Pass
15KHz	15MHz	LCH	DFT-256QAM	18.40	18.40	18.77	16.77	33.00	Pass
15KHz	15MHz	LCH	CP-QPSK	21.65	21.76	21.86	19.86	33.00	Pass
15KHz	15MHz	MCH	DFT-Pi2BPSK	23.37	23.35	23.48	21.48	33.00	Pass
15KHz	15MHz	MCH	DFT-QPSK	23.32	23.51	23.49	21.51	33.00	Pass
15KHz	15MHz	MCH	DFT-16QAM	22.21	22.41	22.59	20.59	33.00	Pass
15KHz	15MHz	MCH	DFT-64QAM	21.00	21.06	20.99	19.06	33.00	Pass
15KHz	15MHz	MCH	DFT-256QAM	18.46	18.55	18.92	16.92	33.00	Pass
15KHz	15MHz	MCH	CP-QPSK	21.77	21.97	21.99	19.99	33.00	Pass
15KHz	15MHz	HCH	DFT-Pi2BPSK	23.31	23.32	23.50	21.50	33.00	Pass
15KHz	15MHz	HCH	DFT-QPSK	23.28	23.27	23.51	21.51	33.00	Pass
15KHz	15MHz	HCH	DFT-16QAM	22.49	22.48	22.56	20.56	33.00	Pass
15KHz	15MHz	HCH	DFT-64QAM	21.22	21.18	21.03	19.22	33.00	Pass
15KHz	15MHz	HCH	DFT-256QAM	18.59	18.52	18.90	16.90	33.00	Pass
15KHz	15MHz	HCH	CP-QPSK	21.79	21.91	22.03	20.03	33.00	Pass
15KHz	20MHz	LCH	DFT-Pi2BPSK	23.25	23.31	23.35	21.35	33.00	Pass
15KHz	20MHz	LCH	DFT-QPSK	23.14	23.26	23.38	21.38	33.00	Pass
15KHz	20MHz	LCH	DFT-16QAM	22.34	22.42	22.45	20.45	33.00	Pass
15KHz	20MHz	LCH	DFT-64QAM	21.13	21.24	20.90	19.24	33.00	Pass

15KHz	20MHz	LCH	DFT-256QAM	18.44	18.49	18.83	16.83	33.00	Pass
15KHz	20MHz	LCH	CP-QPSK	21.69	21.79	21.86	19.86	33.00	Pass
15KHz	20MHz	MCH	DFT-Pi2BPSK	23.28	23.31	23.50	21.50	33.00	Pass
15KHz	20MHz	MCH	DFT-QPSK	23.25	23.31	23.50	21.50	33.00	Pass
15KHz	20MHz	MCH	DFT-16QAM	22.41	22.43	22.58	20.58	33.00	Pass
15KHz	20MHz	MCH	DFT-64QAM	21.18	21.26	21.00	19.26	33.00	Pass
15KHz	20MHz	MCH	DFT-256QAM	18.51	18.53	18.98	16.98	33.00	Pass
15KHz	20MHz	MCH	CP-QPSK	21.80	21.84	21.97	19.97	33.00	Pass
15KHz	20MHz	HCH	DFT-Pi2BPSK	23.28	23.30	23.51	21.51	33.00	Pass
15KHz	20MHz	HCH	DFT-QPSK	23.24	23.15	23.53	21.53	33.00	Pass
15KHz	20MHz	HCH	DFT-16QAM	22.47	22.37	22.63	20.63	33.00	Pass
15KHz	20MHz	HCH	DFT-64QAM	21.22	21.12	21.08	19.22	33.00	Pass
15KHz	20MHz	HCH	DFT-256QAM	18.53	18.44	18.96	16.96	33.00	Pass
15KHz	20MHz	HCH	CP-QPSK	21.74	21.81	21.98	19.98	33.00	Pass
15KHz	25MHz	LCH	DFT-Pi2BPSK	23.09	23.15	23.14	21.15	33.00	Pass
15KHz	25MHz	LCH	DFT-QPSK	22.99	23.03	23.12	21.12	33.00	Pass
15KHz	25MHz	LCH	DFT-16QAM	21.72	21.70	22.19	20.19	33.00	Pass
15KHz	25MHz	LCH	DFT-64QAM	20.64	20.98	20.65	18.98	33.00	Pass
15KHz	25MHz	LCH	DFT-256QAM	18.21	18.22	18.61	16.61	33.00	Pass
15KHz	25MHz	LCH	CP-QPSK	21.49	21.63	21.64	19.64	33.00	Pass
15KHz	25MHz	MCH	DFT-Pi2BPSK	23.29	23.21	23.45	21.45	33.00	Pass
15KHz	25MHz	MCH	DFT-QPSK	23.28	23.22	23.46	21.46	33.00	Pass
15KHz	25MHz	MCH	DFT-16QAM	21.97	22.13	22.41	20.41	33.00	Pass
15KHz	25MHz	MCH	DFT-64QAM	20.66	20.59	21.02	19.02	33.00	Pass
15KHz	25MHz	MCH	DFT-256QAM	18.56	18.52	18.83	16.83	33.00	Pass
15KHz	25MHz	MCH	CP-QPSK	21.78	21.83	21.94	19.94	33.00	Pass
15KHz	25MHz	HCH	DFT-Pi2BPSK	23.26	23.24	23.46	21.46	33.00	Pass
15KHz	25MHz	HCH	DFT-QPSK	23.24	23.19	23.47	21.47	33.00	Pass
15KHz	25MHz	HCH	DFT-16QAM	21.96	21.94	22.54	20.54	33.00	Pass
15KHz	25MHz	HCH	DFT-64QAM	20.98	20.90	21.02	19.02	33.00	Pass
15KHz	25MHz	HCH	DFT-256QAM	18.56	18.40	18.92	16.92	33.00	Pass
15KHz	25MHz	HCH	CP-QPSK	21.78	21.81	22.00	20.00	33.00	Pass
15KHz	30MHz	LCH	DFT-Pi2BPSK	23.07	23.16	23.20	21.20	33.00	Pass
15KHz	30MHz	LCH	DFT-QPSK	22.97	23.08	23.19	21.19	33.00	Pass
15KHz	30MHz	LCH	DFT-16QAM	21.87	21.87	22.13	20.13	33.00	Pass
15KHz	30MHz	LCH	DFT-64QAM	20.42	20.52	20.64	18.64	33.00	Pass
15KHz	30MHz	LCH	DFT-256QAM	18.23	18.28	18.61	16.61	33.00	Pass
15KHz	30MHz	LCH	CP-QPSK	21.44	21.70	21.63	19.70	33.00	Pass
15KHz	30MHz	MCH	DFT-Pi2BPSK	23.10	22.96	23.23	21.23	33.00	Pass
15KHz	30MHz	MCH	DFT-QPSK	23.03	22.93	23.27	21.27	33.00	Pass
15KHz	30MHz	MCH	DFT-16QAM	21.86	21.85	22.29	20.29	33.00	Pass
15KHz	30MHz	MCH	DFT-64QAM	20.69	20.76	20.85	18.85	33.00	Pass
15KHz	30MHz	MCH	DFT-256QAM	18.33	18.37	18.76	16.76	33.00	Pass
15KHz	30MHz	MCH	CP-QPSK	21.46	21.52	21.68	19.68	33.00	Pass
15KHz	30MHz	HCH	DFT-Pi2BPSK	23.30	23.24	23.37	21.37	33.00	Pass
15KHz	30MHz	HCH	DFT-QPSK	23.29	23.20	23.41	21.41	33.00	Pass
15KHz	30MHz	HCH	DFT-16QAM	22.17	22.10	22.43	20.43	33.00	Pass
15KHz	30MHz	HCH	DFT-64QAM	20.72	20.67	20.94	18.94	33.00	Pass
15KHz	30MHz	HCH	DFT-256QAM	18.66	18.55	18.80	16.80	33.00	Pass
15KHz	30MHz	HCH	CP-QPSK	21.84	21.80	21.85	19.85	33.00	Pass
15KHz	40MHz	LCH	DFT-Pi2BPSK	23.05	23.15	23.19	21.19	33.00	Pass
15KHz	40MHz	LCH	DFT-QPSK	22.98	23.07	23.26	21.26	33.00	Pass
15KHz	40MHz	LCH	DFT-16QAM	21.59	21.86	22.28	20.28	33.00	Pass
15KHz	40MHz	LCH	DFT-64QAM	20.82	21.09	20.70	19.09	33.00	Pass
15KHz	40MHz	LCH	DFT-256QAM	18.29	18.49	18.72	16.72	33.00	Pass
15KHz	40MHz	LCH	CP-QPSK	21.50	21.73	21.76	19.76	33.00	Pass
15KHz	40MHz	MCH	DFT-Pi2BPSK	23.03	23.05	23.22	21.22	33.00	Pass
15KHz	40MHz	MCH	DFT-QPSK	23.00	23.03	23.24	21.24	33.00	Pass
15KHz	40MHz	MCH	DFT-16QAM	21.77	21.82	22.31	20.31	33.00	Pass
15KHz	40MHz	MCH	DFT-64QAM	20.93	20.93	20.74	18.93	33.00	Pass
15KHz	40MHz	MCH	DFT-256QAM	18.24	18.29	18.75	16.75	33.00	Pass
15KHz	40MHz	MCH	CP-QPSK	21.43	21.60	21.73	19.73	33.00	Pass

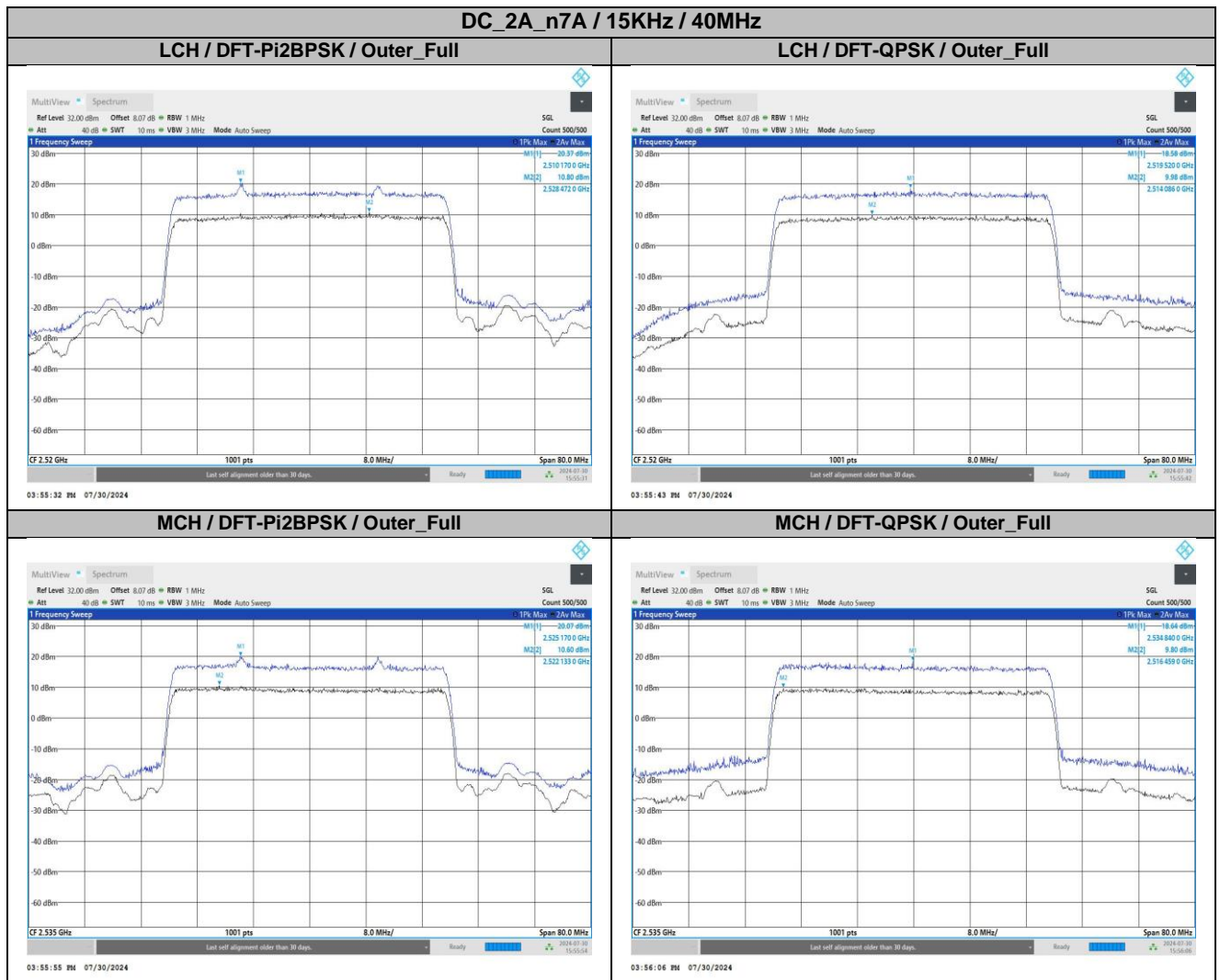
15KHz	40MHz	HCH	DFT-Pi2BPSK	23.12	23.06	23.23	21.23	33.00	Pass
15KHz	40MHz	HCH	DFT-QPSK	23.09	22.99	23.27	21.27	33.00	Pass
15KHz	40MHz	HCH	DFT-16QAM	21.88	21.88	22.30	20.30	33.00	Pass
15KHz	40MHz	HCH	DFT-64QAM	20.85	20.80	20.76	18.85	33.00	Pass
15KHz	40MHz	HCH	DFT-256QAM	18.46	18.40	18.75	16.75	33.00	Pass
15KHz	40MHz	HCH	CP-QPSK	21.57	21.64	21.74	19.74	33.00	Pass

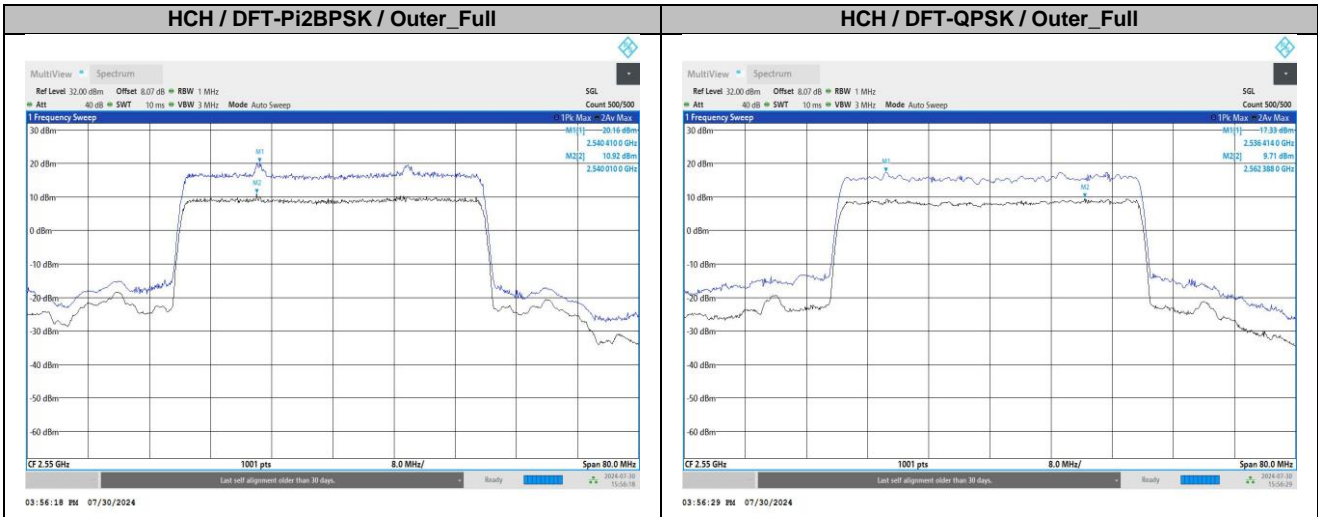
2. Peak-to-Average Ratio

2.1. Test Results

SCS	Bandwidth	Channel	RB	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
15KHz	40MHz	LCH	Outer_Full	9.57	8.61	13.00	Pass
15KHz	40MHz	MCH	Outer_Full	9.47	8.84	13.00	Pass
15KHz	40MHz	HCH	Outer_Full	9.24	7.62	13.00	Pass

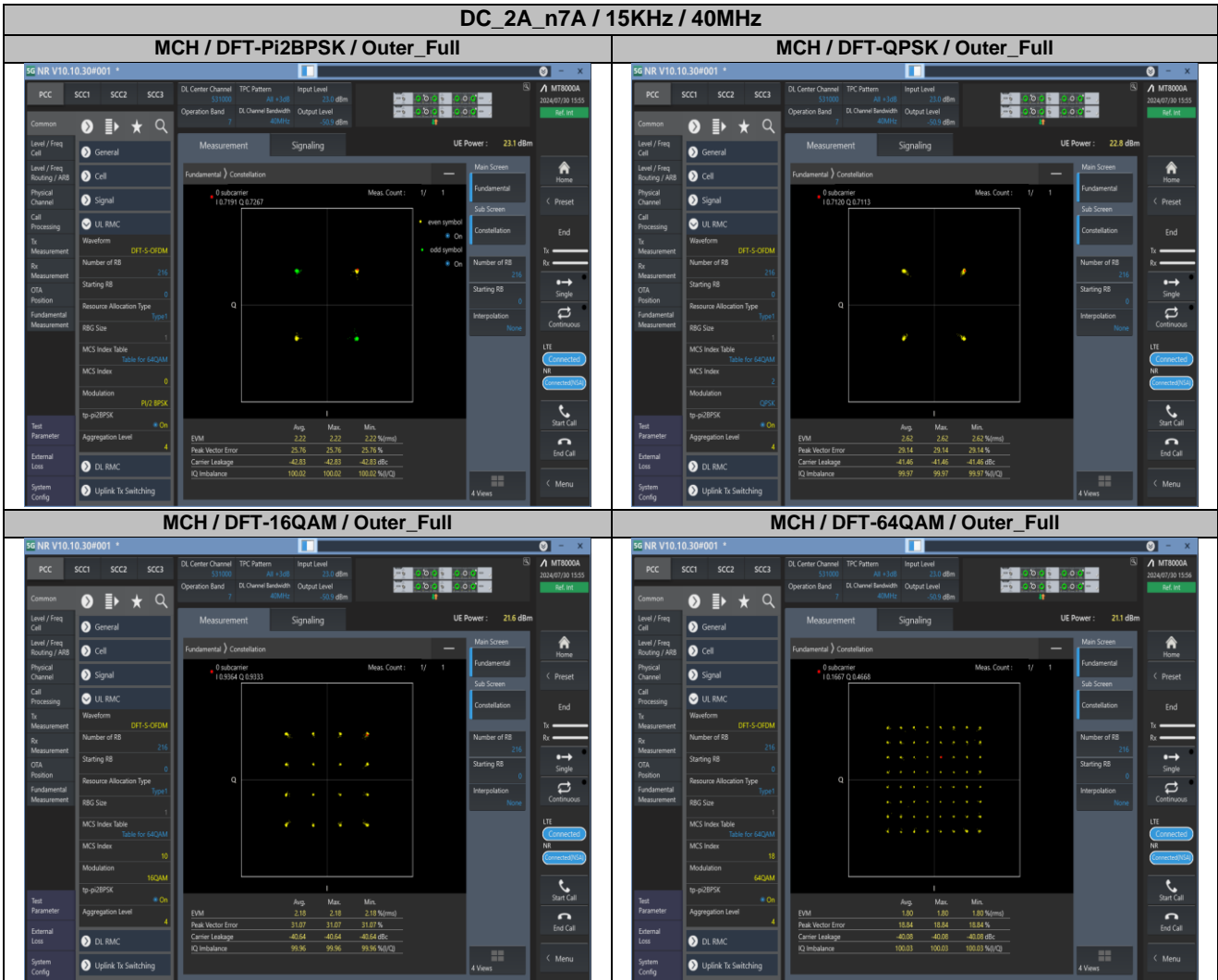
2.2. Test Plots

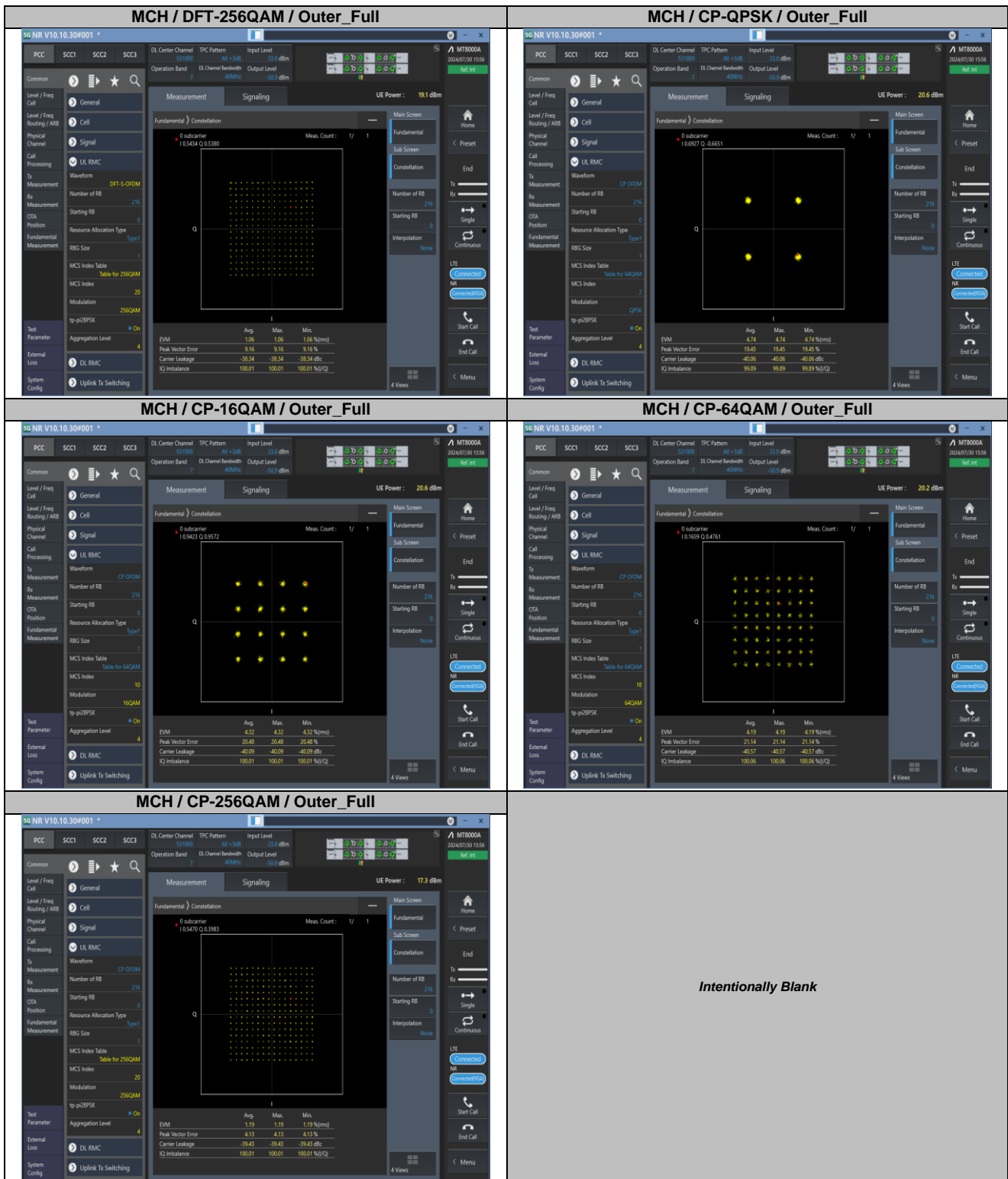




3. Modulation Characteristics

3.1. Test Plots





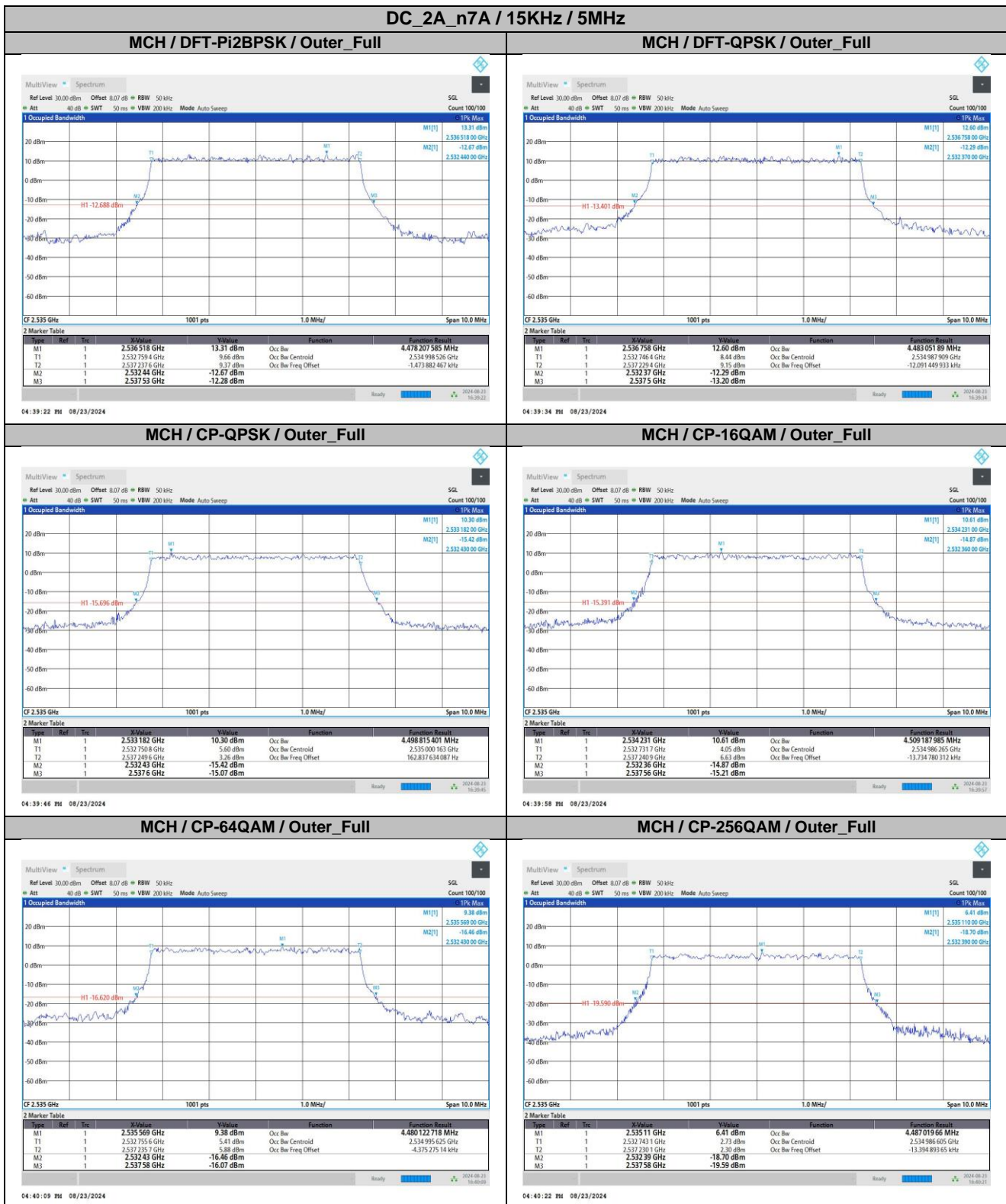
Intentionally Blank

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	4.48	5.09	Pass
15KHz	5MHz	DFT-QPSK	Outer_Full	4.48	5.13	Pass
15KHz	5MHz	CP-QPSK	Outer_Full	4.50	5.17	Pass
15KHz	5MHz	CP-16QAM	Outer_Full	4.51	5.20	Pass
15KHz	5MHz	CP-64QAM	Outer_Full	4.48	5.15	Pass
15KHz	5MHz	CP-256QAM	Outer_Full	4.49	5.19	Pass
15KHz	10MHz	DFT-Pi2BPSK	Outer_Full	8.93	9.56	Pass
15KHz	10MHz	DFT-QPSK	Outer_Full	8.95	9.80	Pass
15KHz	10MHz	CP-QPSK	Outer_Full	9.31	10.20	Pass
15KHz	10MHz	CP-16QAM	Outer_Full	9.29	10.10	Pass
15KHz	10MHz	CP-64QAM	Outer_Full	9.29	10.06	Pass
15KHz	10MHz	CP-256QAM	Outer_Full	9.31	10.18	Pass
15KHz	15MHz	DFT-Pi2BPSK	Outer_Full	13.42	14.43	Pass
15KHz	15MHz	DFT-QPSK	Outer_Full	13.44	14.37	Pass
15KHz	15MHz	CP-QPSK	Outer_Full	14.13	15.18	Pass
15KHz	15MHz	CP-16QAM	Outer_Full	14.15	15.18	Pass
15KHz	15MHz	CP-64QAM	Outer_Full	14.14	15.30	Pass
15KHz	15MHz	CP-256QAM	Outer_Full	14.11	15.15	Pass
15KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.84	18.84	Pass
15KHz	20MHz	DFT-QPSK	Outer_Full	17.88	18.88	Pass
15KHz	20MHz	CP-QPSK	Outer_Full	18.94	20.04	Pass
15KHz	20MHz	CP-16QAM	Outer_Full	18.98	20.04	Pass
15KHz	20MHz	CP-64QAM	Outer_Full	18.93	20.00	Pass
15KHz	20MHz	CP-256QAM	Outer_Full	18.98	20.00	Pass
15KHz	25MHz	DFT-Pi2BPSK	Outer_Full	22.87	24.10	Pass
15KHz	25MHz	DFT-QPSK	Outer_Full	22.94	24.00	Pass
15KHz	25MHz	CP-QPSK	Outer_Full	23.77	25.00	Pass
15KHz	25MHz	CP-16QAM	Outer_Full	23.76	25.00	Pass
15KHz	25MHz	CP-64QAM	Outer_Full	23.76	25.10	Pass
15KHz	25MHz	CP-256QAM	Outer_Full	23.74	24.95	Pass
15KHz	30MHz	DFT-Pi2BPSK	Outer_Full	28.56	29.82	Pass
15KHz	30MHz	DFT-QPSK	Outer_Full	28.62	29.82	Pass
15KHz	30MHz	CP-QPSK	Outer_Full	28.58	29.94	Pass
15KHz	30MHz	CP-16QAM	Outer_Full	28.58	29.82	Pass
15KHz	30MHz	CP-64QAM	Outer_Full	28.55	29.88	Pass
15KHz	30MHz	CP-256QAM	Outer_Full	28.55	29.76	Pass
15KHz	40MHz	DFT-Pi2BPSK	Outer_Full	38.54	40.24	Pass
15KHz	40MHz	DFT-QPSK	Outer_Full	38.69	40.16	Pass
15KHz	40MHz	CP-QPSK	Outer_Full	38.59	40.24	Pass
15KHz	40MHz	CP-16QAM	Outer_Full	38.60	40.24	Pass
15KHz	40MHz	CP-64QAM	Outer_Full	38.62	40.40	Pass
15KHz	40MHz	CP-256QAM	Outer_Full	38.57	40.16	Pass

4.2. Test Plots



DC_2A_n7A / 15KHz / 10MHz

MCH / DFT-Pi2BPSK / Outer_Full



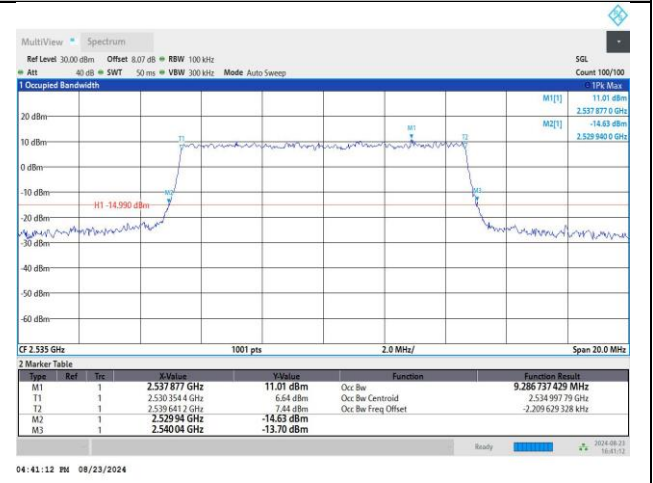
MCH / DFT-QPSK / Outer_Full



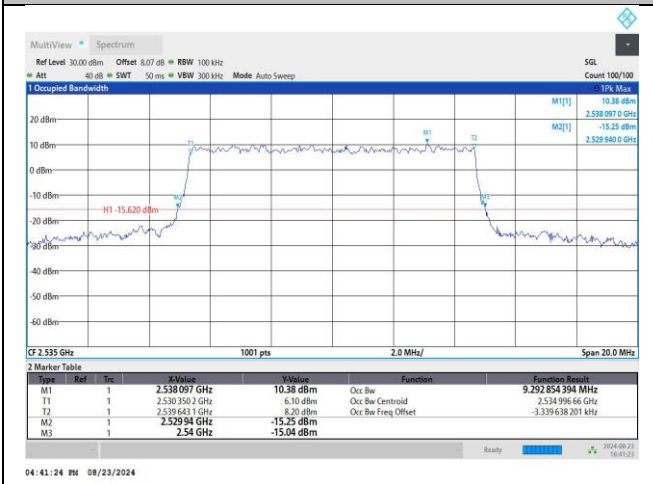
MCH / CP-QPSK / Outer_Full



MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

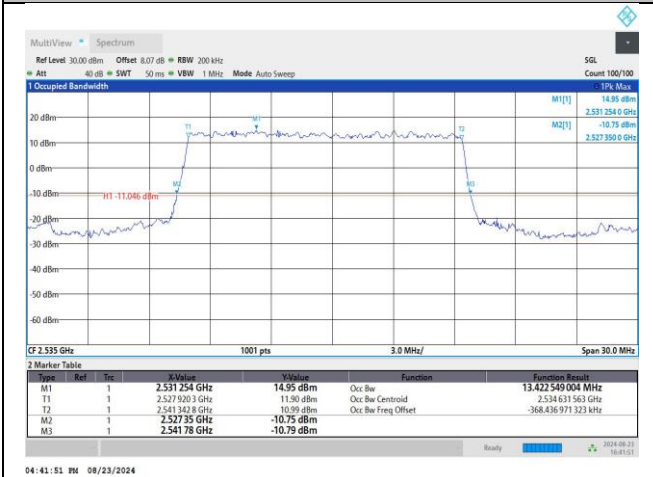


MCH / CP-256QAM / Outer_Full



DC_2A_n7A / 15KHz / 15MHz

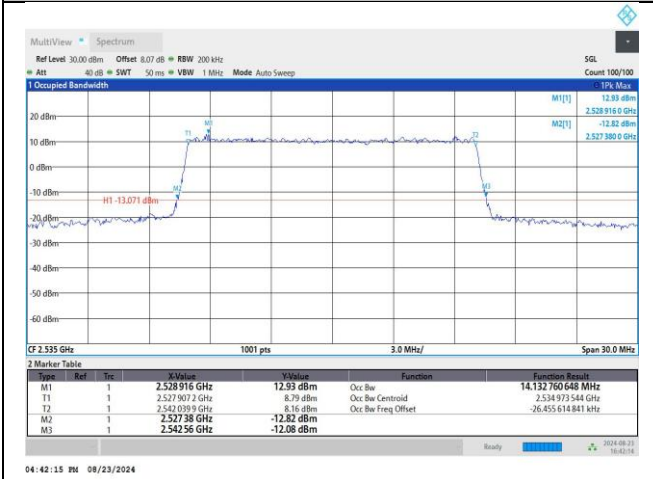
MCH / DFT-Pi2BPSK / Outer_Full



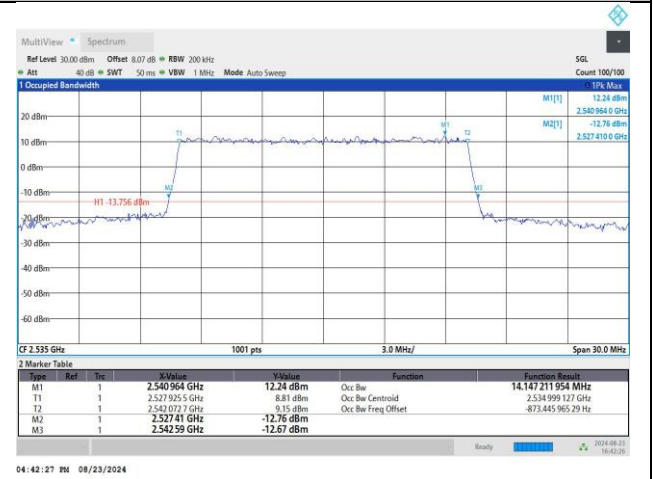
MCH / DFT-QPSK / Outer_Full



MCH / CP-QPSK / Outer_Full



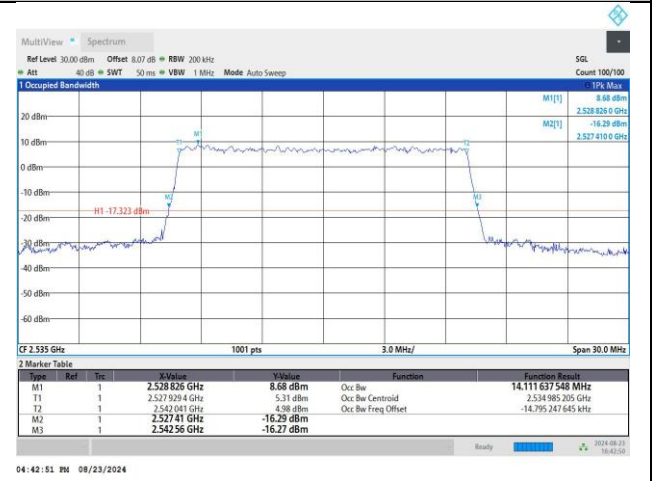
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

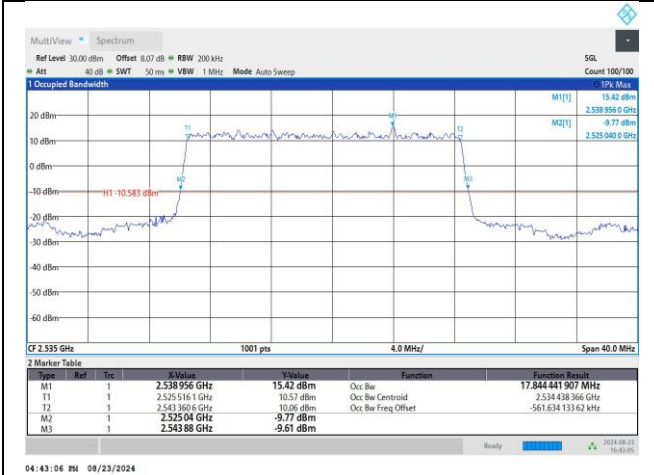


MCH / CP-256QAM / Outer_Full



DC_2A_n7A / 15KHz / 20MHz

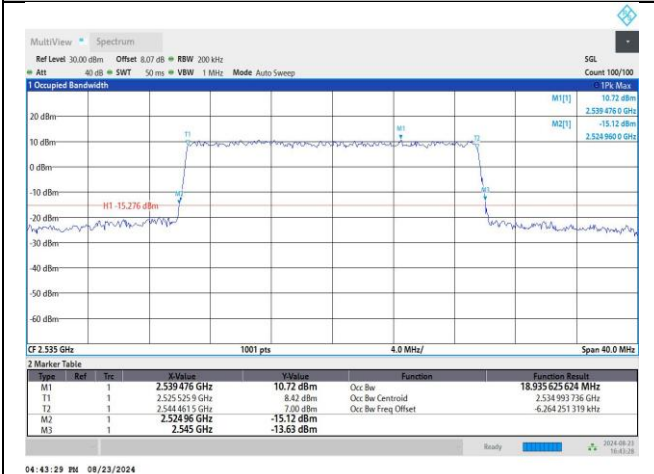
MCH / DFT-Pi2BPSK / Outer_Full



MCH / DFT-QPSK / Outer_Full



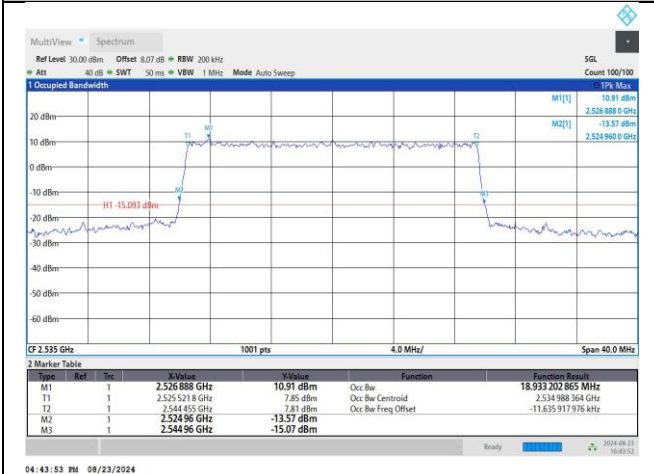
MCH / CP-QPSK / Outer_Full



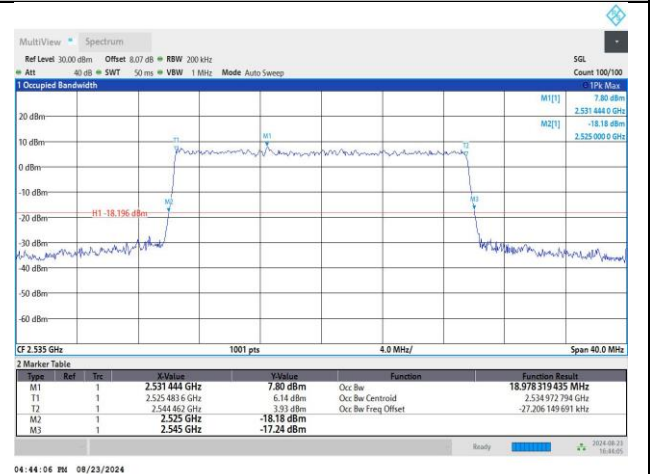
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full



MCH / CP-256QAM / Outer_Full



DC_2A_n7A / 15KHz / 25MHz

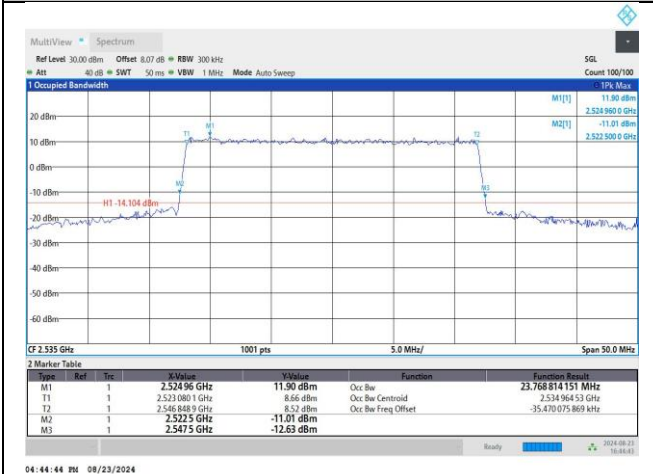
MCH / DFT-Pi2BPSK / Outer_Full



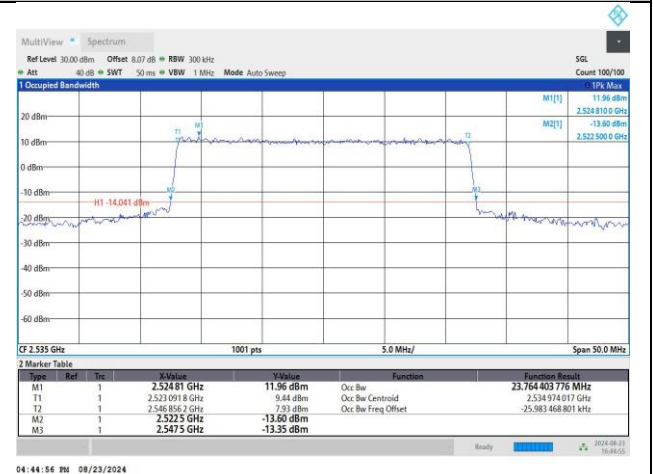
MCH / DFT-QPSK / Outer_Full



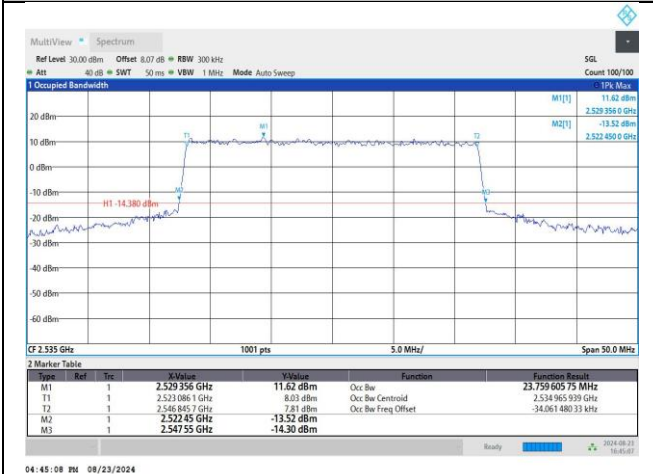
MCH / CP-QPSK / Outer_Full



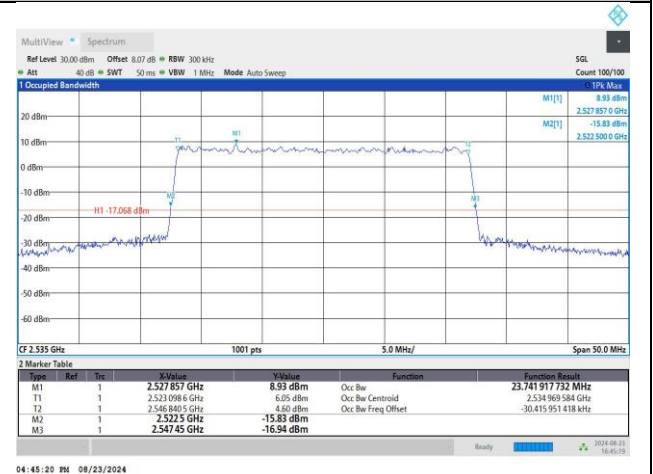
MCH / CP-16QAM / Outer_Full



MCH / CP-64QAM / Outer_Full

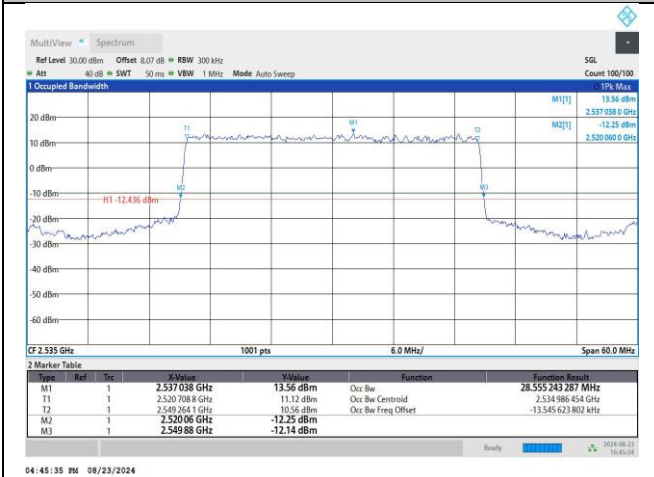


MCH / CP-256QAM / Outer_Full

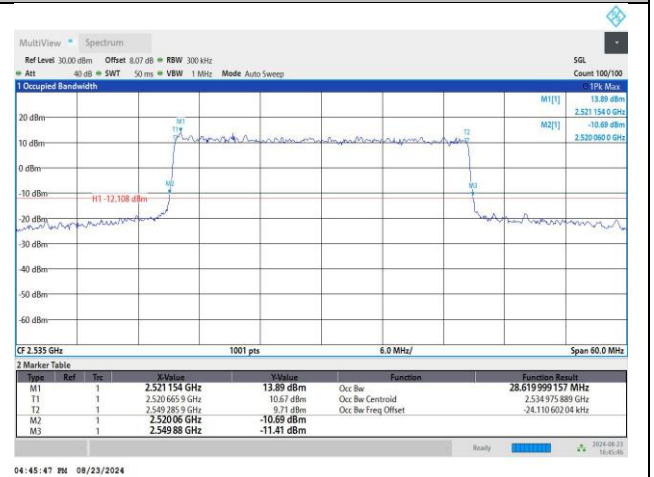


DC_2A_n7A / 15KHz / 30MHz

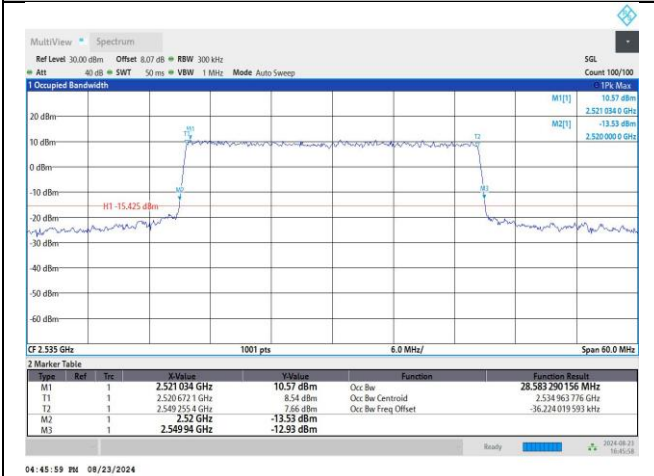
MCH / DFT-Pi2BPSK / Outer_Full



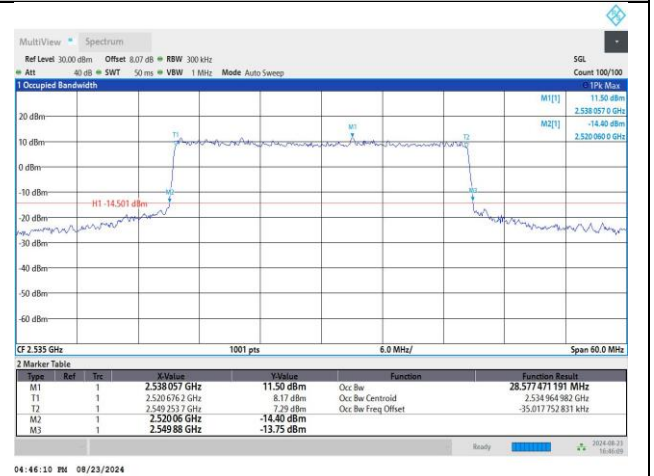
MCH / DFT-QPSK / Outer_Full



MCH / CP-QPSK / Outer_Full



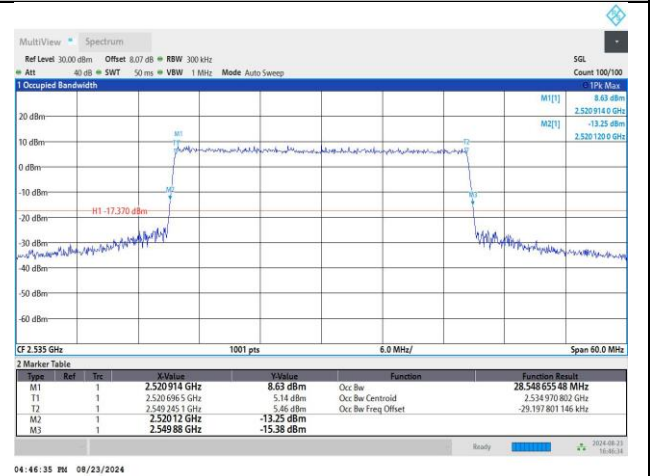
MCH / CP-16QAM / Outer_Full

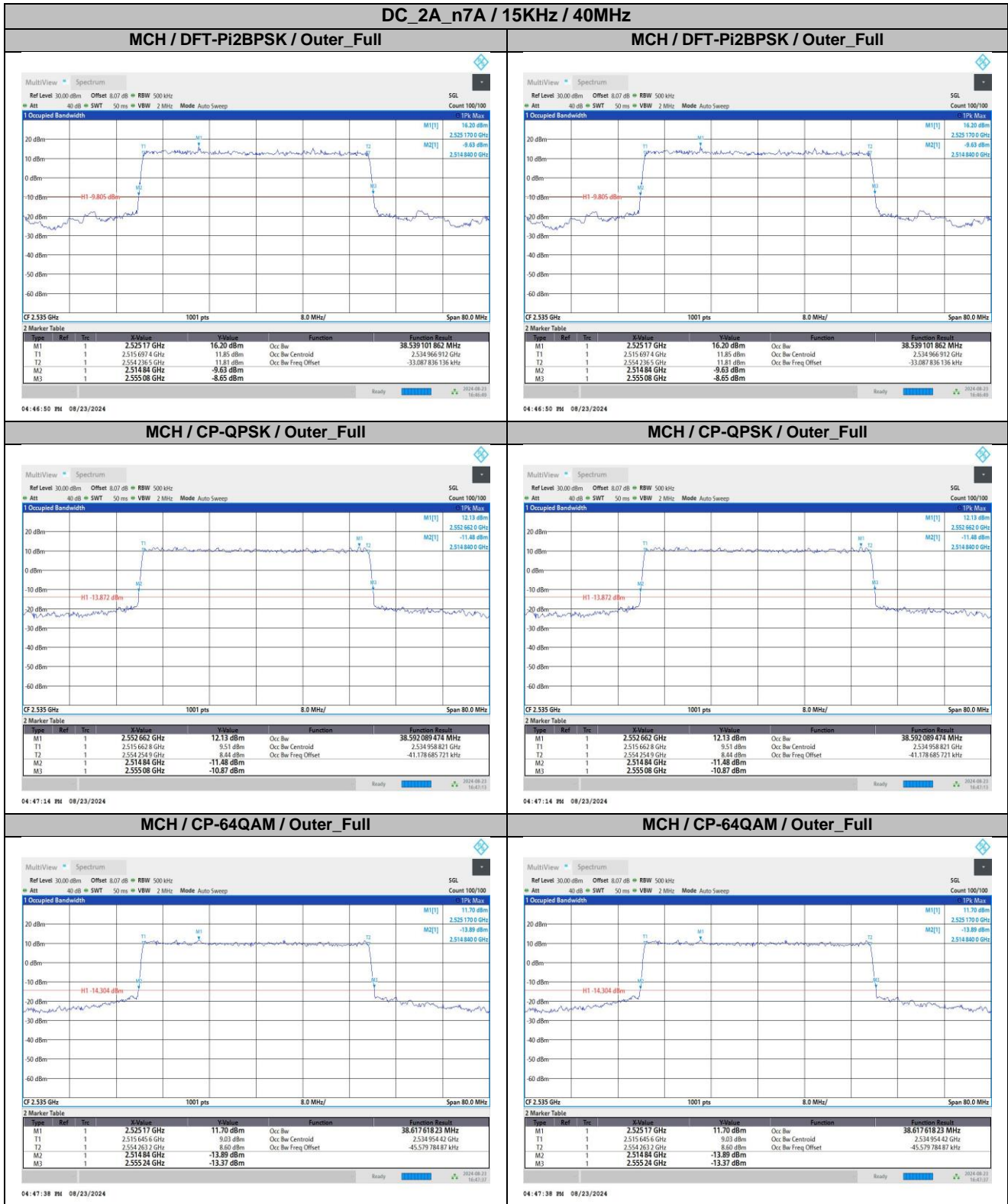


MCH / CP-64QAM / Outer_Full



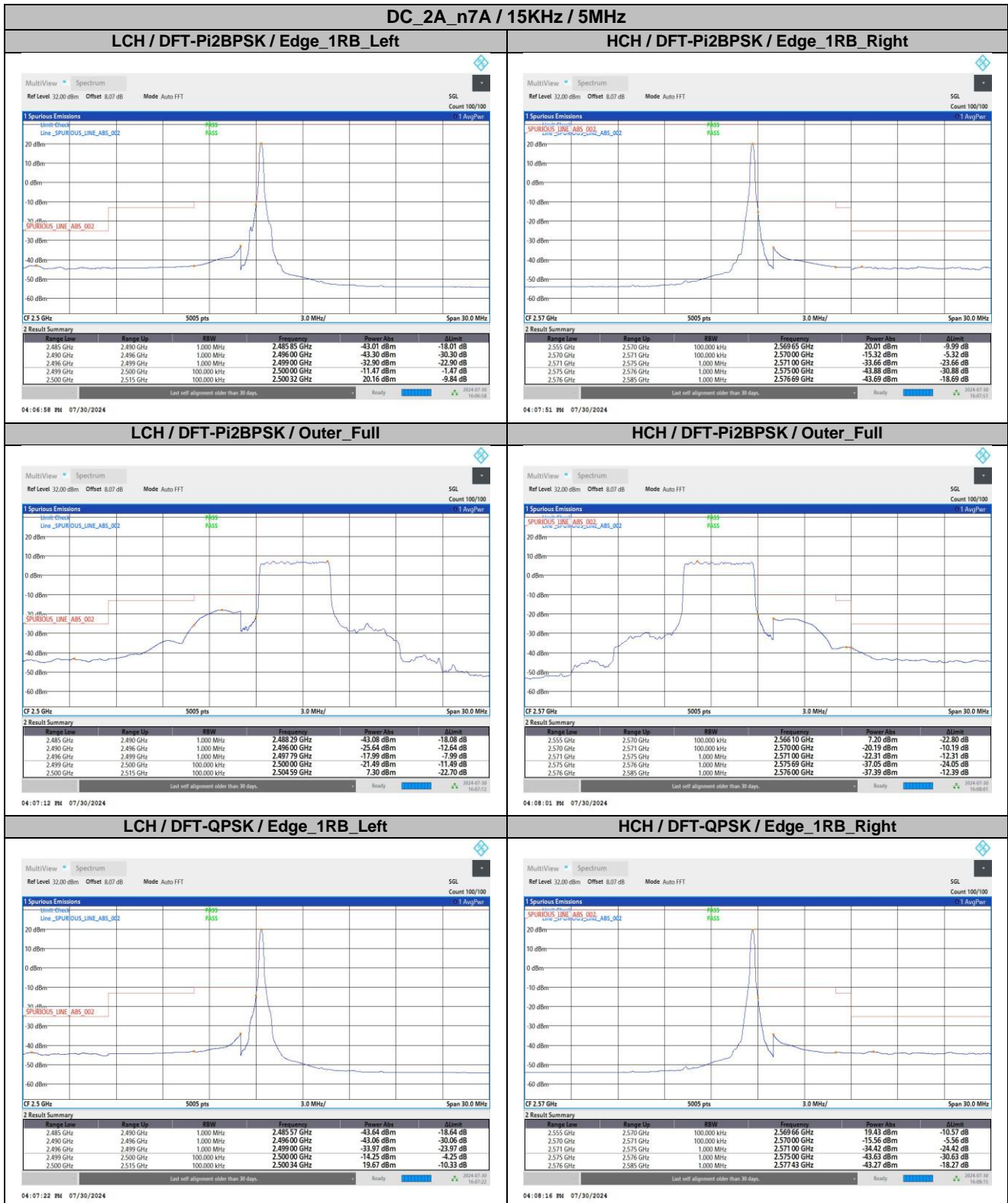
MCH / CP-256QAM / Outer_Full

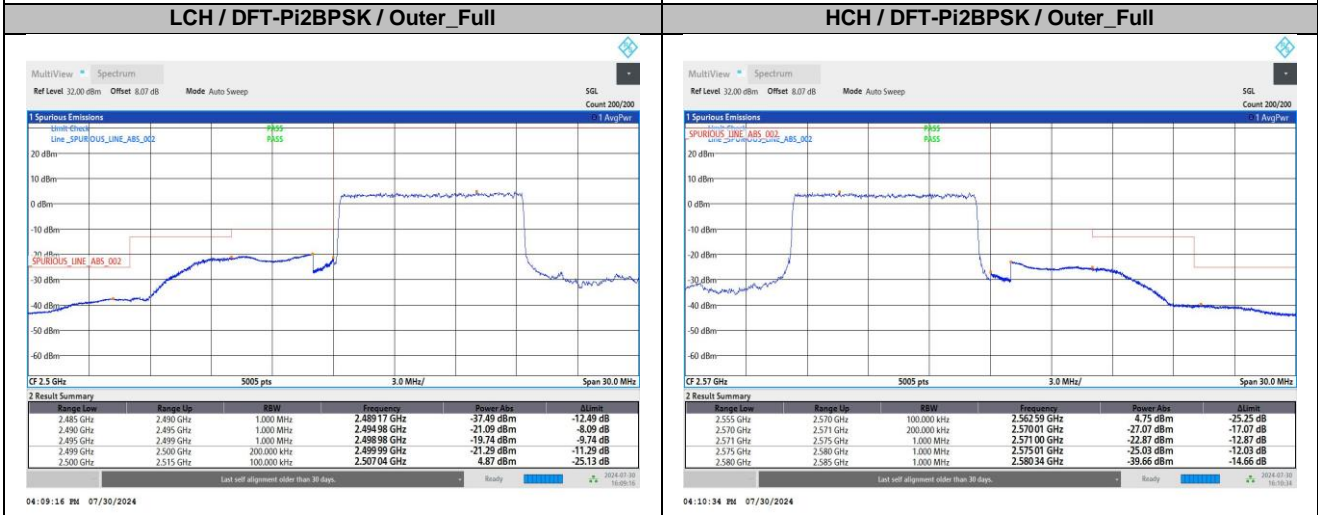
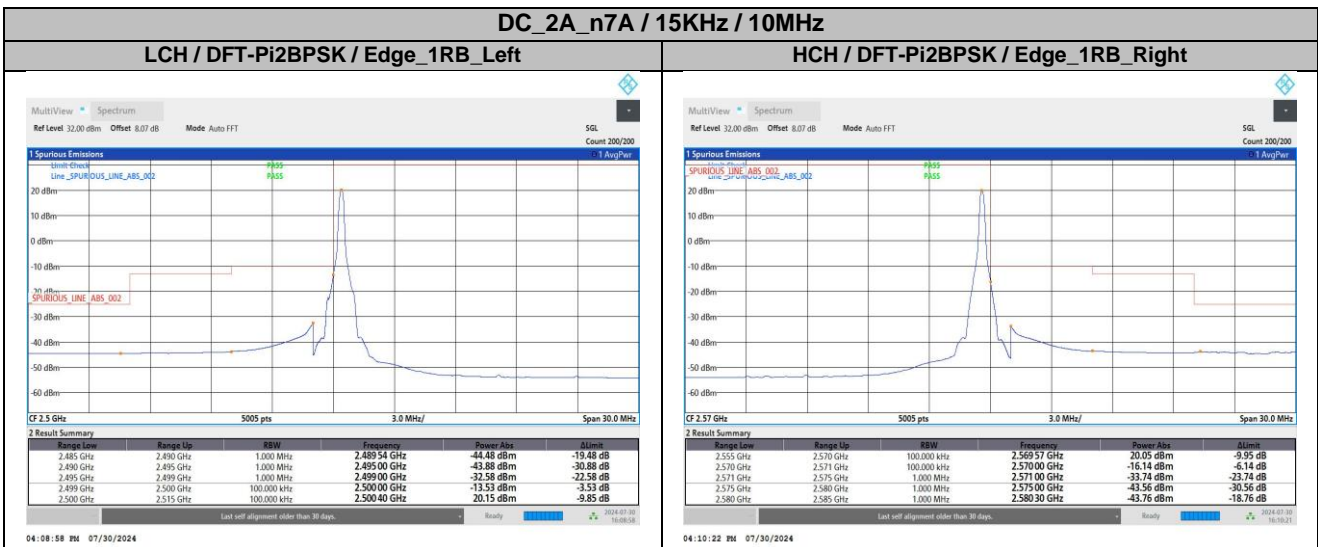
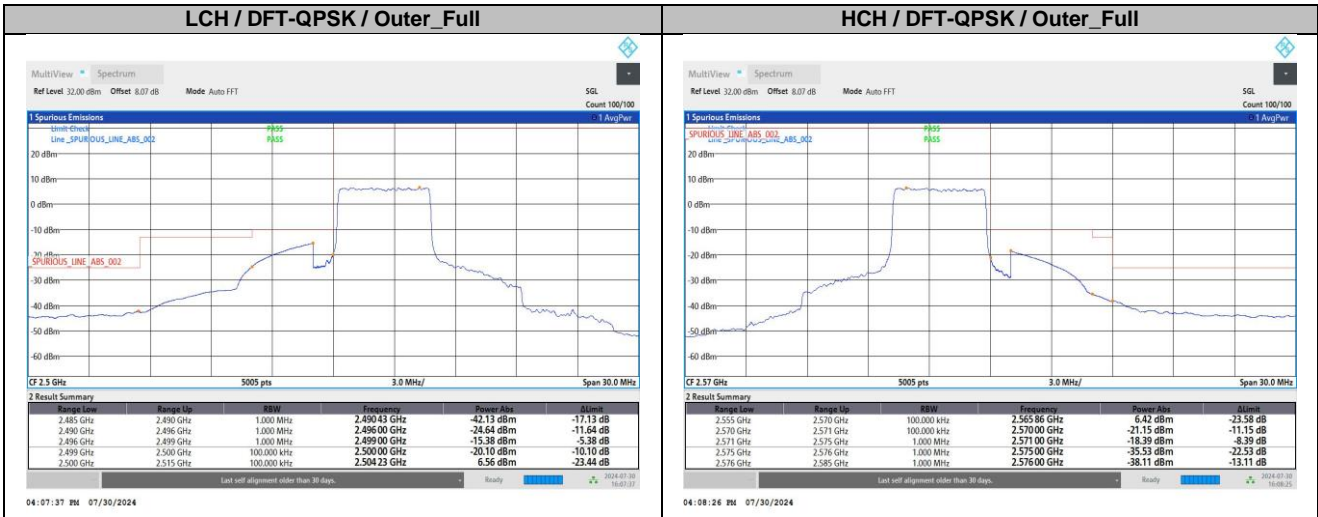


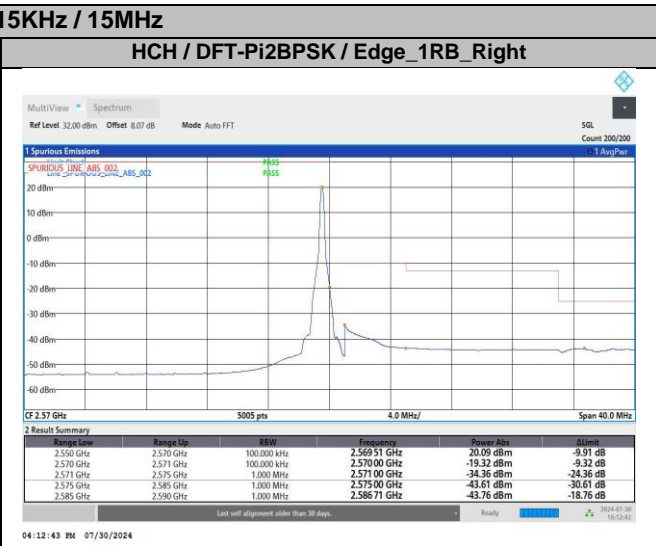
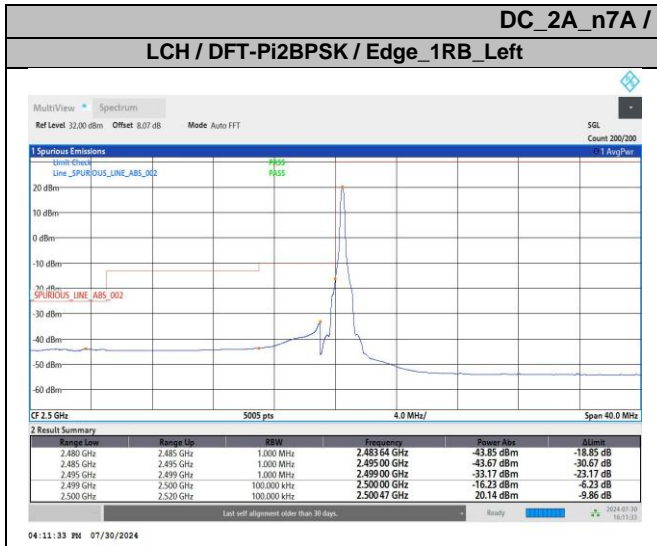
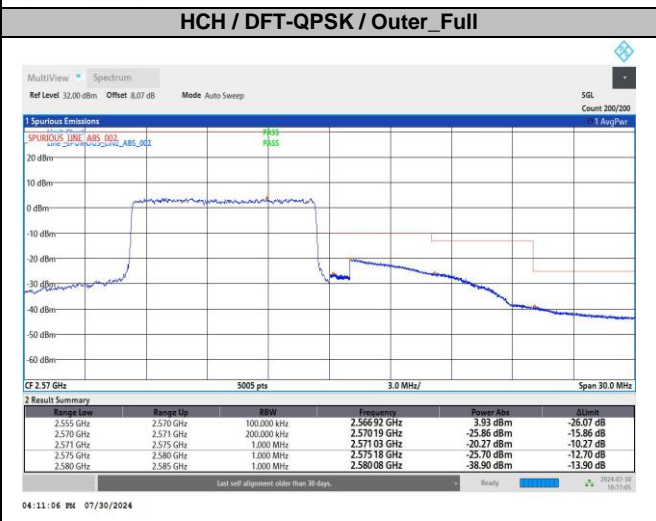
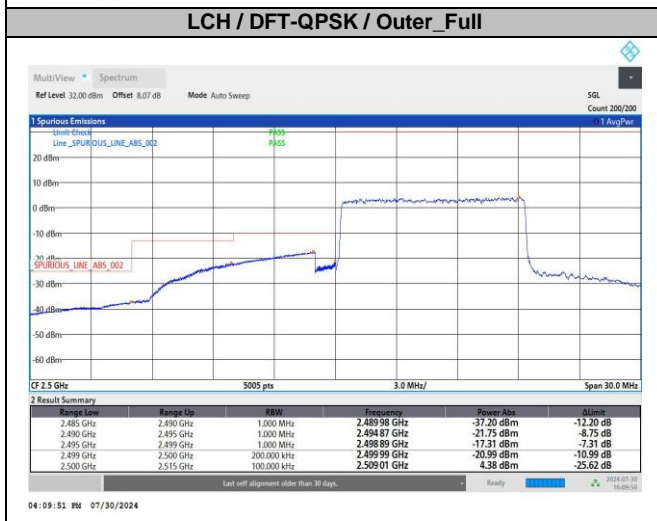
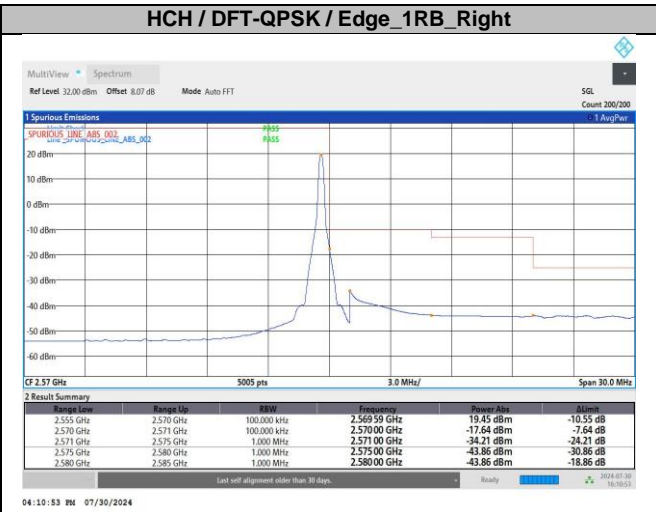
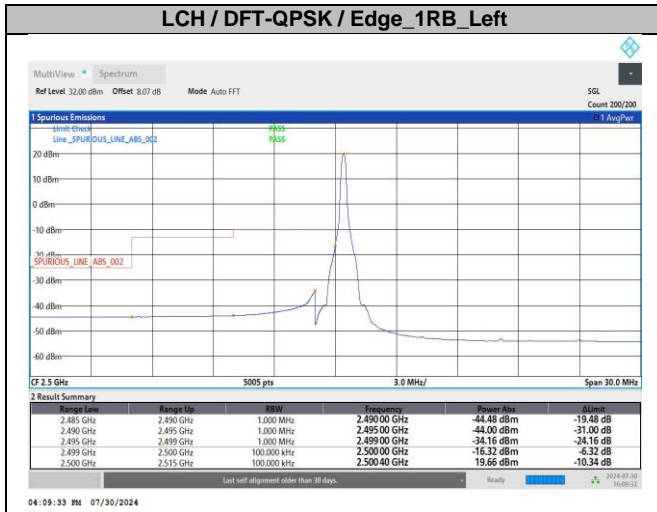


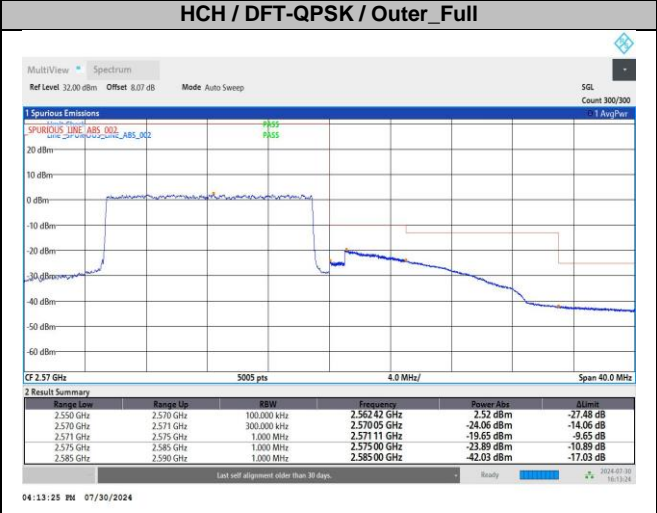
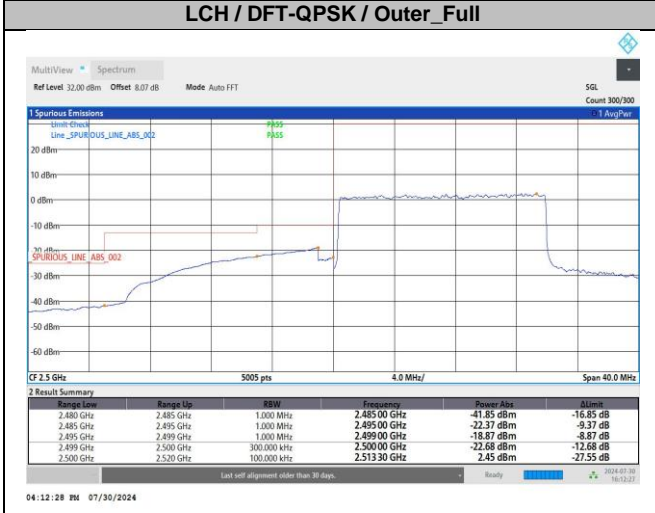
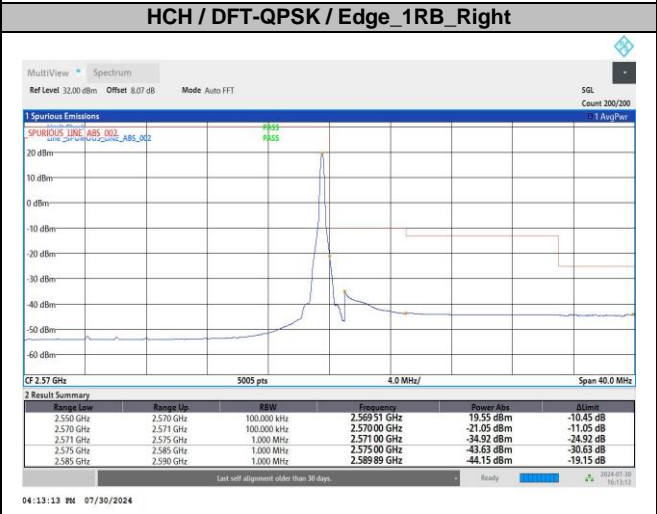
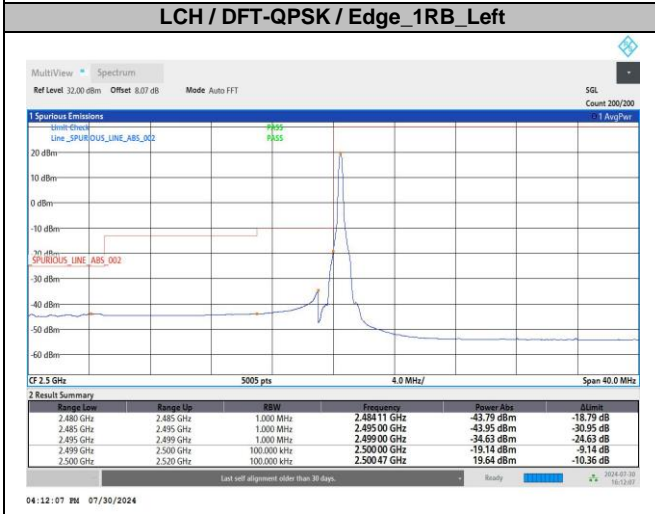
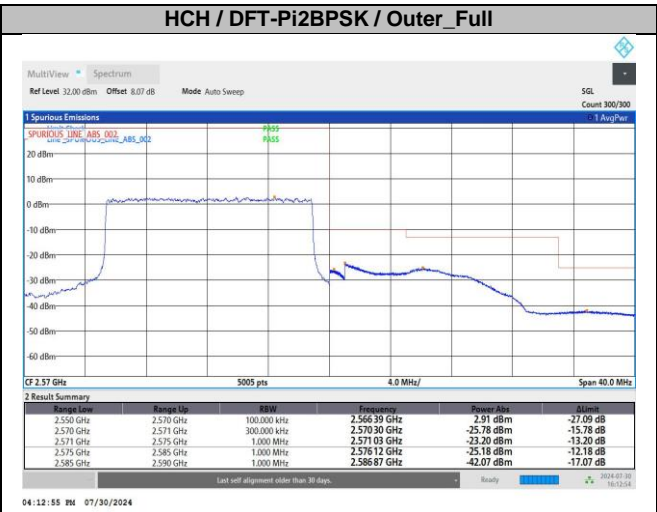
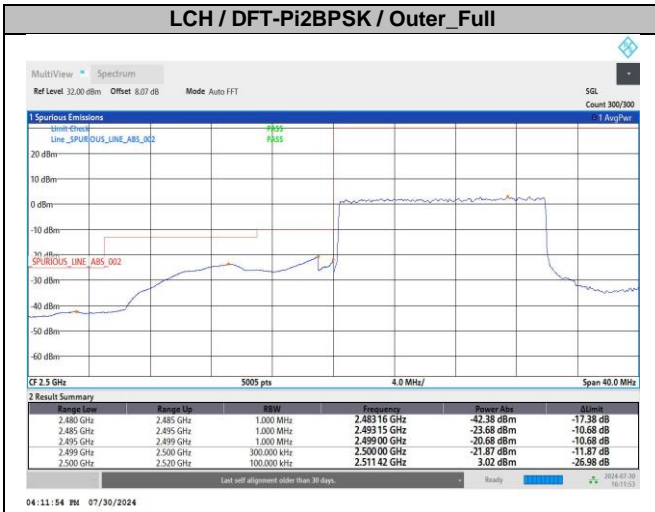
5. Conducted Band Edges

5.1. Test Plots



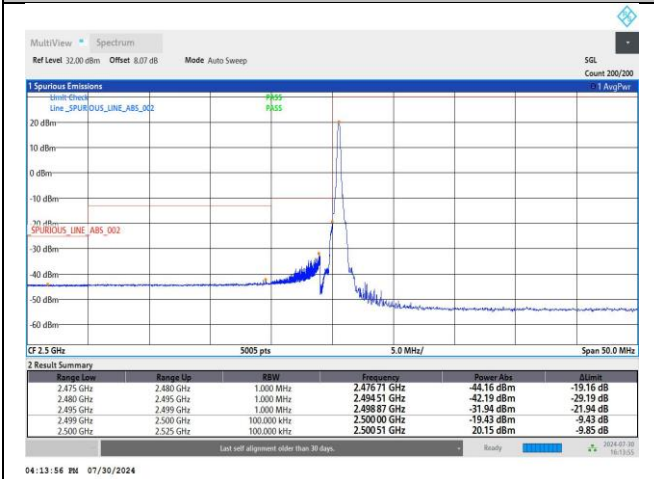




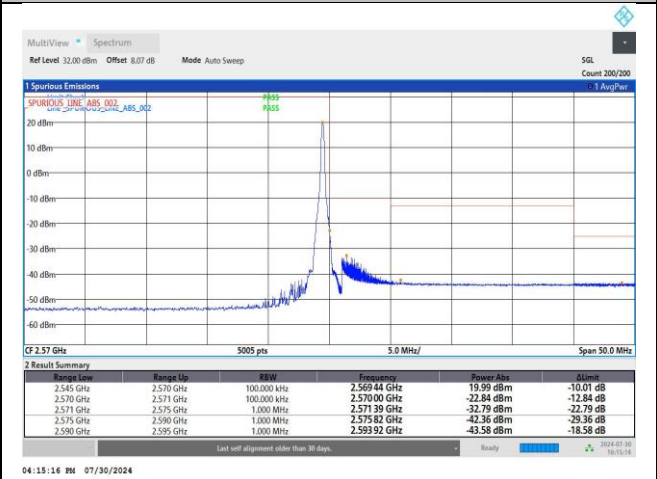


DC_2A_n7A / 15KHz / 20MHz

LCH / DFT-Pi2BPSK / Edge_1RB_Left



HCH / DFT-Pi2BPSK / Edge_1RB_Right



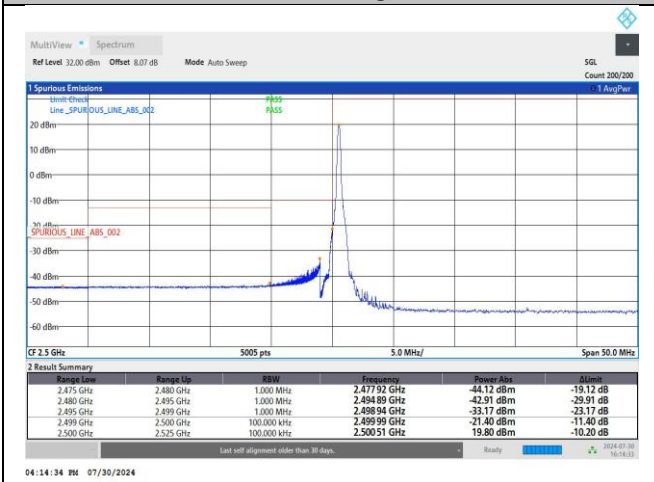
LCH / DFT-Pi2BPSK / Outer_Full



HCH / DFT-Pi2BPSK / Outer_Full



LCH / DFT-QPSK / Edge_1RB_Left



HCH / DFT-QPSK / Edge_1RB_Right

