

Appendix for 13A_N7A

Product Name: 5G Window CPE

Model No: TITAN 5100

Appendix A: Average Power Output Data

Test Result

Band	SC S	Bandwidth h	Modulation	Channel	RB Config	Power (dBm)	Power Class	Verdict
DC_13A_n7A	15	5+5	DFT-QPSK	M+L	Outer_Full	21.29	PC3	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+L	Inner_Full	22.20	PC3	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+L	Edge_1RB_Left	21.29	PC3	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+L	Edge_1RB_Right	21.32	PC3	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+L	Outer_Full	20.22	PC3	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+L	Inner_Full	21.03	PC3	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+L	Edge_1RB_Left	19.74	PC3	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+L	Edge_1RB_Right	20.31	PC3	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+M	Outer_Full	21.71	PC3	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+M	Inner_Full	22.75	PC3	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+M	Edge_1RB_Left	21.52	PC3	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+M	Edge_1RB_Right	21.75	PC3	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+M	Outer_Full	20.69	PC3	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+M	Inner_Full	21.61	PC3	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+M	Edge_1RB_Left	20.94	PC3	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+M	Edge_1RB_Right	20.12	PC3	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+H	Outer_Full	21.70	PC3	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+H	Inner_Full	22.68	PC3	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+H	Edge_1RB_Left	21.73	PC3	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+H	Edge_1RB_Right	21.86	PC3	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+H	Outer_Full	20.74	PC3	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+H	Inner_Full	21.79	PC3	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+H	Edge_1RB_Left	20.93	PC3	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+H	Edge_1RB_Right	21.26	PC3	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+L	Outer_Full	21.37	PC3	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+L	Inner_Full	22.18	PC3	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+L	Edge_1RB_Left	21.30	PC3	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+L	Edge_1RB_Right	21.76	PC3	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+L	Outer_Full	20.34	PC3	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+L	Inner_Full	21.26	PC3	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+L	Edge_1RB_Left	20.58	PC3	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+L	Edge_1RB_Right	20.15	PC3	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+M	Outer_Full	21.68	PC3	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+M	Inner_Full	22.55	PC3	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+M	Edge_1RB_Left	22.02	PC3	PASS

DC_13A_n7A	15	5+10	DFT-QPSK	M+M	Edge_1RB_Right	21.86	PC3	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+M	Outer_Full	20.74	PC3	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+M	Inner_Full	21.65	PC3	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+M	Edge_1RB_Left	20.81	PC3	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+M	Edge_1RB_Right	20.22	PC3	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+H	Outer_Full	21.73	PC3	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+H	Inner_Full	22.74	PC3	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+H	Edge_1RB_Left	21.93	PC3	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+H	Edge_1RB_Right	21.83	PC3	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+H	Outer_Full	20.85	PC3	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+H	Inner_Full	21.88	PC3	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+H	Edge_1RB_Left	20.84	PC3	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+H	Edge_1RB_Right	20.66	PC3	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+L	Outer_Full	21.46	PC3	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+L	Inner_Full	22.42	PC3	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+L	Edge_1RB_Left	21.16	PC3	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+L	Edge_1RB_Right	21.59	PC3	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+L	Outer_Full	20.50	PC3	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+L	Inner_Full	21.26	PC3	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+L	Edge_1RB_Left	20.56	PC3	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+L	Edge_1RB_Right	20.59	PC3	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+M	Outer_Full	21.87	PC3	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+M	Inner_Full	22.87	PC3	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+M	Edge_1RB_Left	21.88	PC3	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+M	Edge_1RB_Right	21.79	PC3	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+M	Outer_Full	20.86	PC3	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+M	Inner_Full	21.90	PC3	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+M	Edge_1RB_Left	21.09	PC3	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+M	Edge_1RB_Right	20.49	PC3	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+H	Outer_Full	21.87	PC3	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+H	Inner_Full	22.83	PC3	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+H	Edge_1RB_Left	21.36	PC3	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+H	Edge_1RB_Right	21.83	PC3	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+H	Outer_Full	20.81	PC3	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+H	Inner_Full	21.85	PC3	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+H	Edge_1RB_Left	21.12	PC3	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+H	Edge_1RB_Right	20.78	PC3	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+L	Outer_Full	21.39	PC3	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+L	Inner_Full	22.45	PC3	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+L	Edge_1RB_Left	21.25	PC3	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+L	Edge_1RB_Right	21.50	PC3	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+L	Outer_Full	20.34	PC3	PASS

DC_13A_n7A	15	5+20	DFT-16QAM	M+L	Inner_Full	21.44	PC3	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+L	Edge_1RB_Left	20.78	PC3	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+L	Edge_1RB_Right	20.35	PC3	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+M	Outer_Full	21.77	PC3	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+M	Inner_Full	22.85	PC3	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+M	Edge_1RB_Left	21.70	PC3	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+M	Edge_1RB_Right	21.95	PC3	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+M	Outer_Full	20.74	PC3	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+M	Inner_Full	21.82	PC3	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+M	Edge_1RB_Left	20.85	PC3	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+M	Edge_1RB_Right	20.89	PC3	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+H	Outer_Full	21.82	PC3	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+H	Inner_Full	22.76	PC3	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+H	Edge_1RB_Left	21.75	PC3	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+H	Edge_1RB_Right	21.60	PC3	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+H	Outer_Full	20.84	PC3	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+H	Inner_Full	21.73	PC3	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+H	Edge_1RB_Left	20.88	PC3	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+H	Edge_1RB_Right	20.74	PC3	PASS

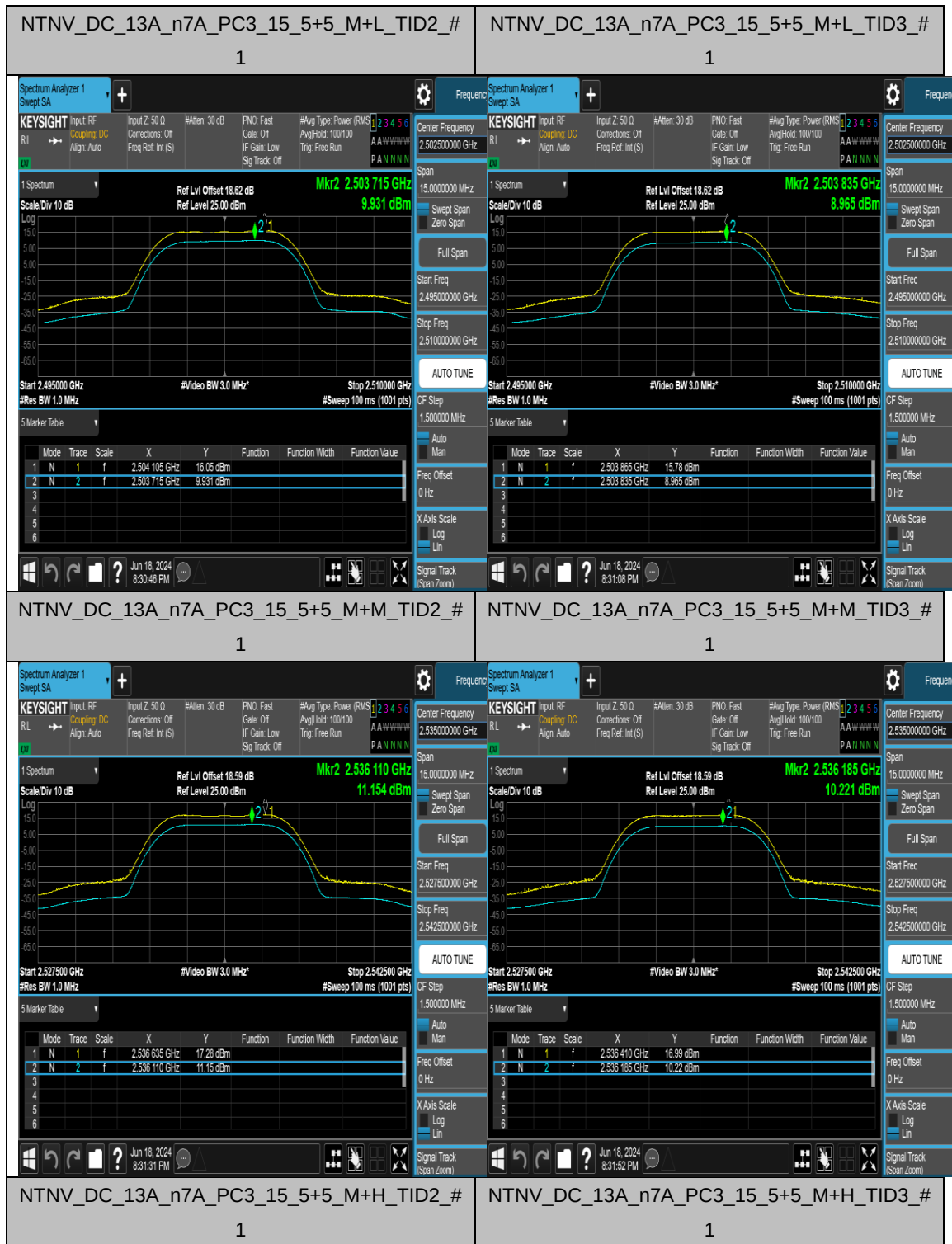
Appendix B: Peak-to-Average Ratio for NSA

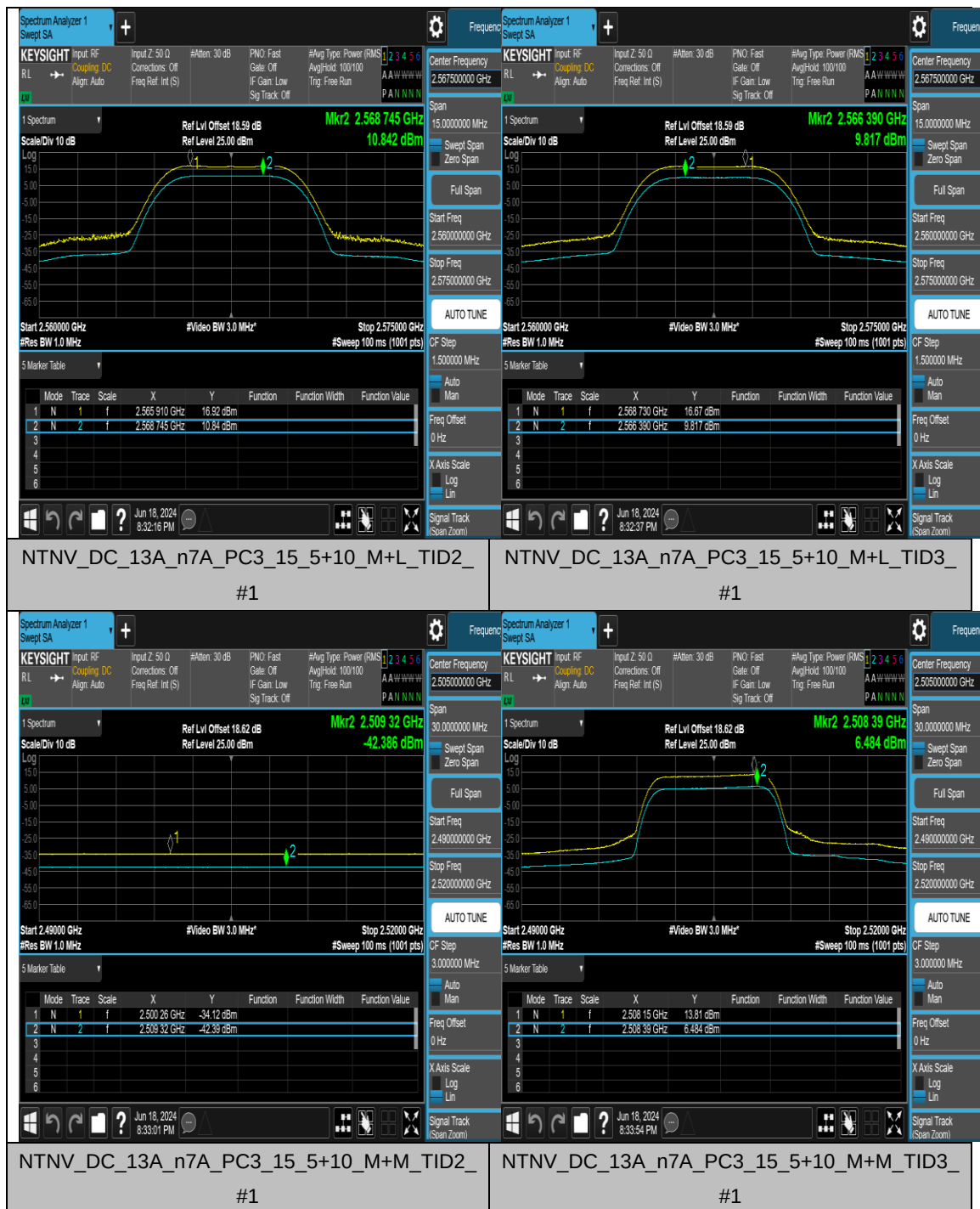
Peak-to-Average Ratio(PAPR)

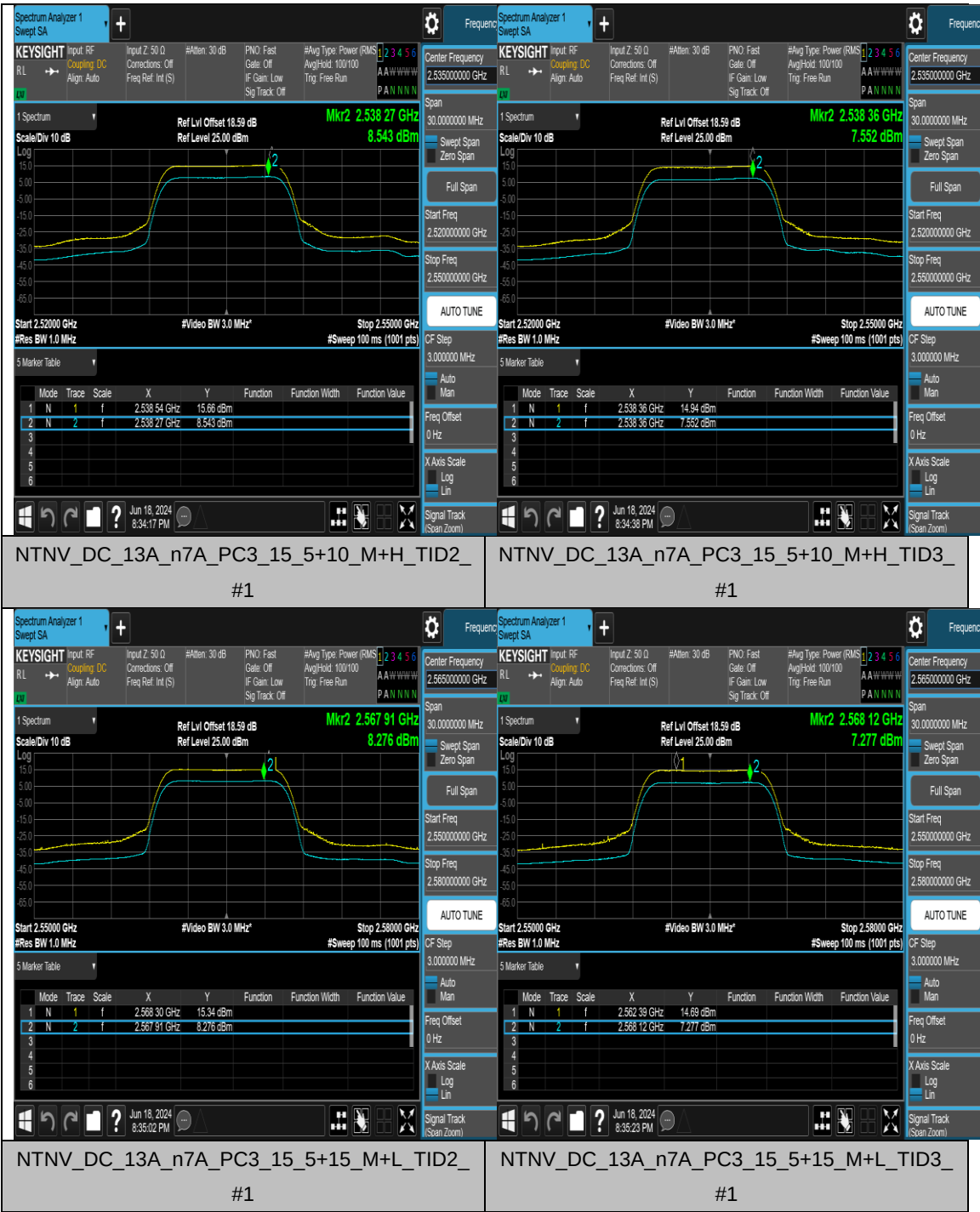
Test Result

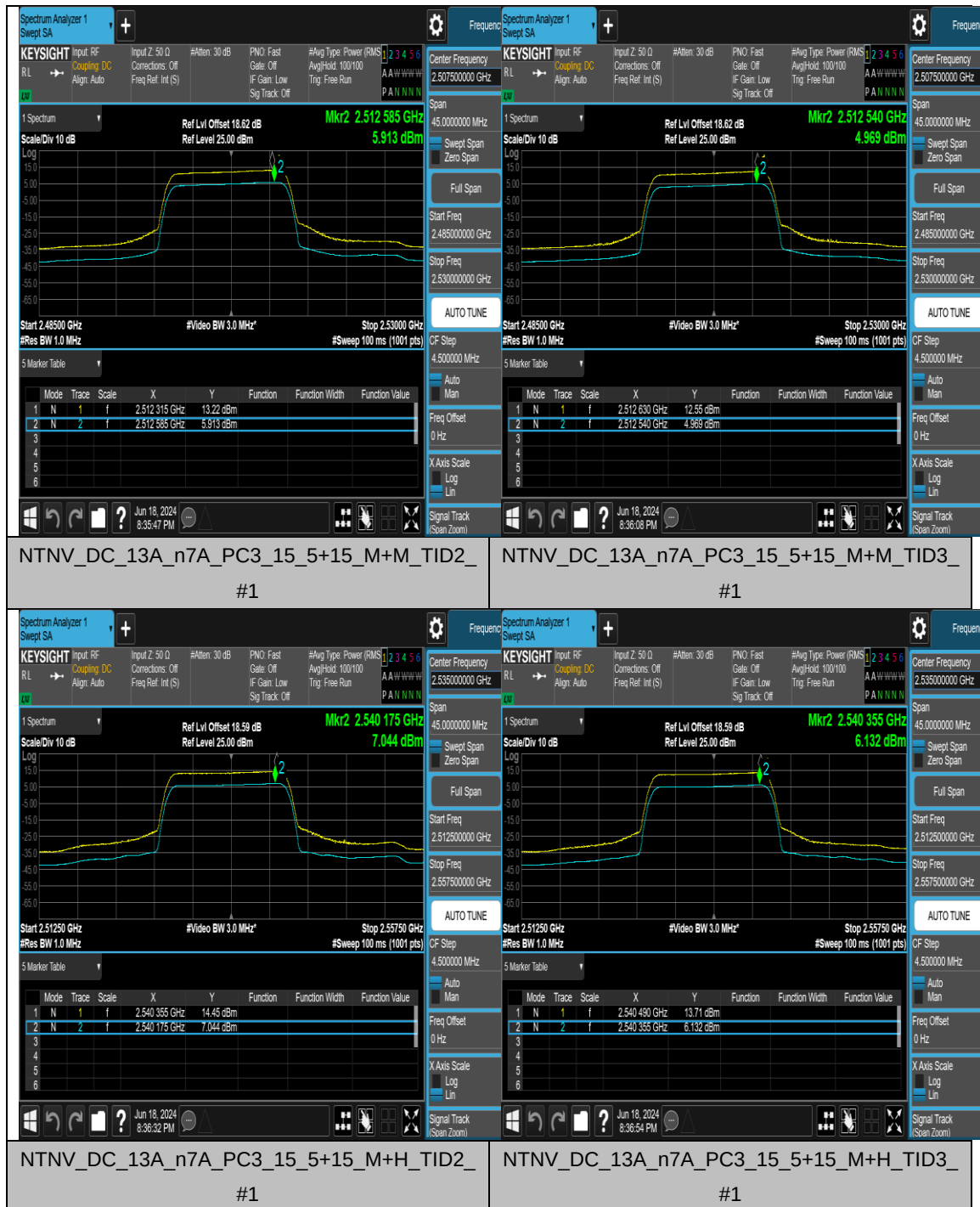
Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
DC_13A_n7A	15	5+5	DFT-QPSK	M+L	Outer_Full	100%	0.00	6.12	≤13	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+L	Outer_Full	100%	0.00	6.81	≤13	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+M	Outer_Full	100%	0.00	6.13	≤13	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+M	Outer_Full	100%	0.00	6.77	≤13	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+H	Outer_Full	100%	0.00	6.08	≤13	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+H	Outer_Full	100%	0.00	6.85	≤13	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+L	Outer_Full	100%	0.00	8.27	≤13	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+L	Outer_Full	100%	0.00	7.33	≤13	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+M	Outer_Full	100%	0.00	7.12	≤13	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+M	Outer_Full	100%	0.00	7.39	≤13	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+H	Outer_Full	100%	0.00	7.06	≤13	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+H	Outer_Full	100%	0.00	7.41	≤13	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+L	Outer_Full	100%	0.00	7.31	≤13	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+L	Outer_Full	100%	0.00	7.58	≤13	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+M	Outer_Full	100%	0.00	7.41	≤13	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+M	Outer_Full	100%	0.00	7.58	≤13	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+H	Outer_Full	100%	0.00	7.35	≤13	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+H	Outer_Full	100%	0.00	7.58	≤13	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+L	Outer_Full	100%	0.00	7.61	≤13	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+L	Outer_Full	100%	0.00	7.71	≤13	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+M	Outer_Full	100%	0.00	7.55	≤13	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+M	Outer_Full	100%	0.00	7.65	≤13	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+H	Outer_Full	100%	0.00	7.52	≤13	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+H	Outer_Full	100%	0.00	7.61	≤13	PASS

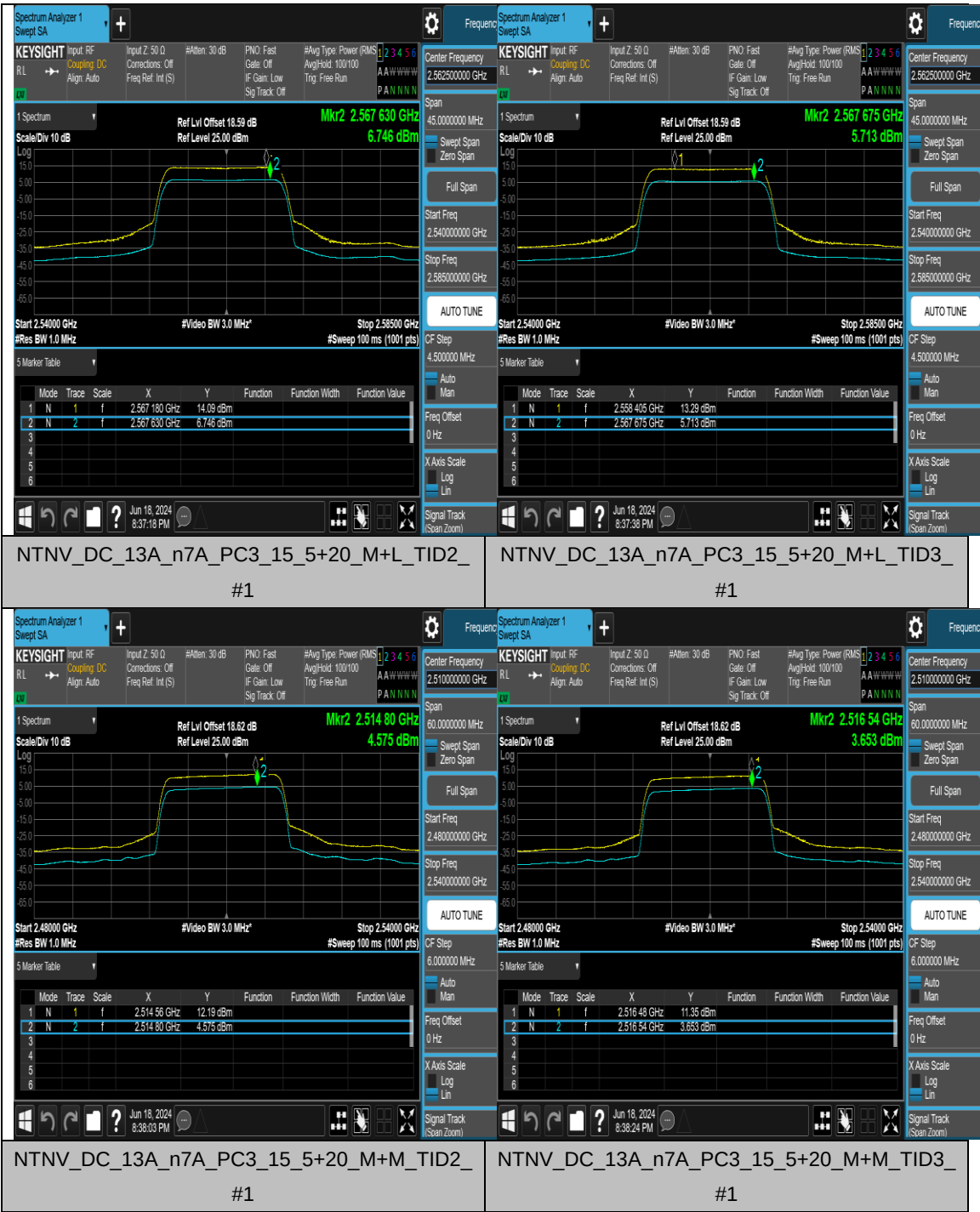
Test Graphs

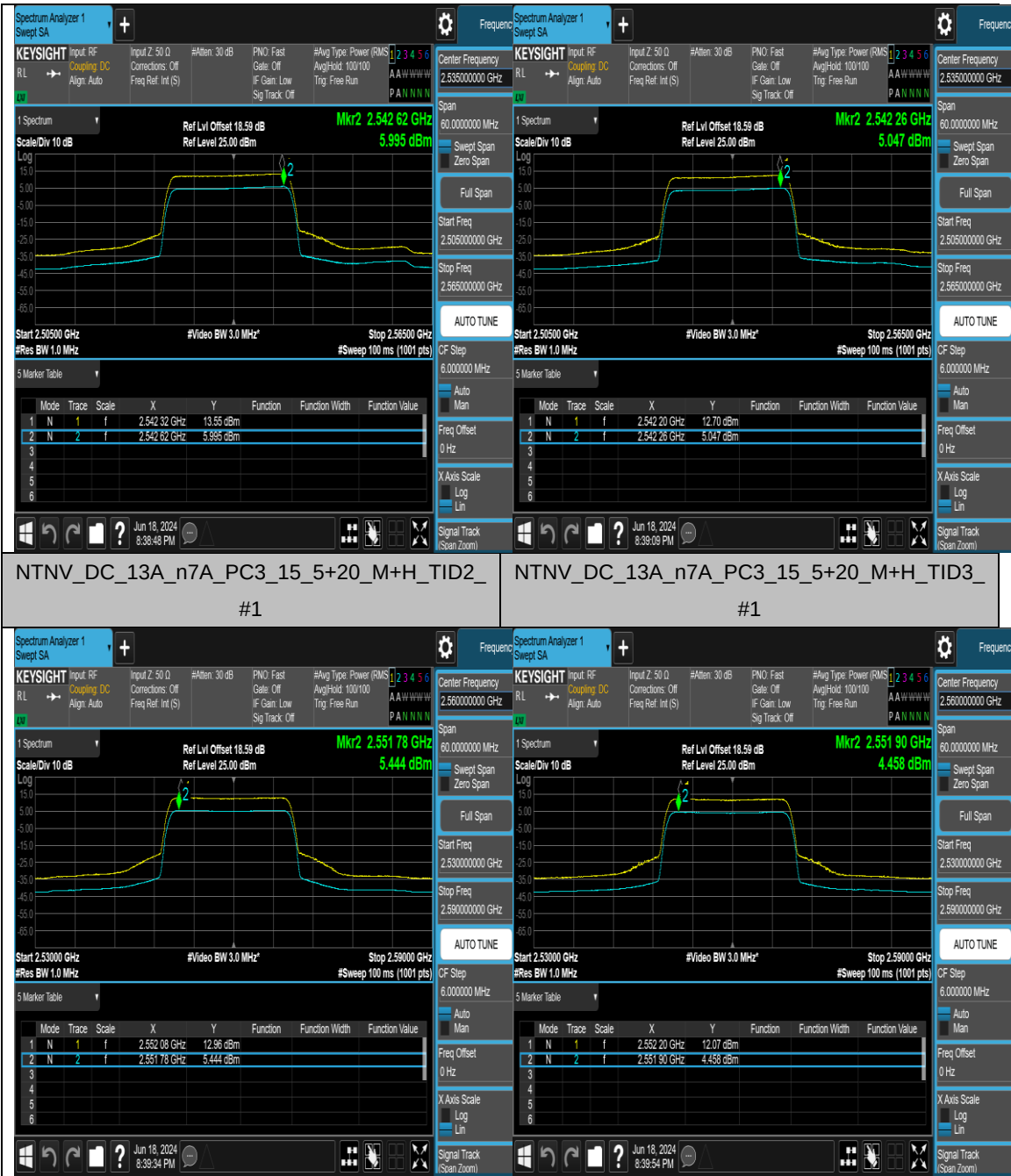








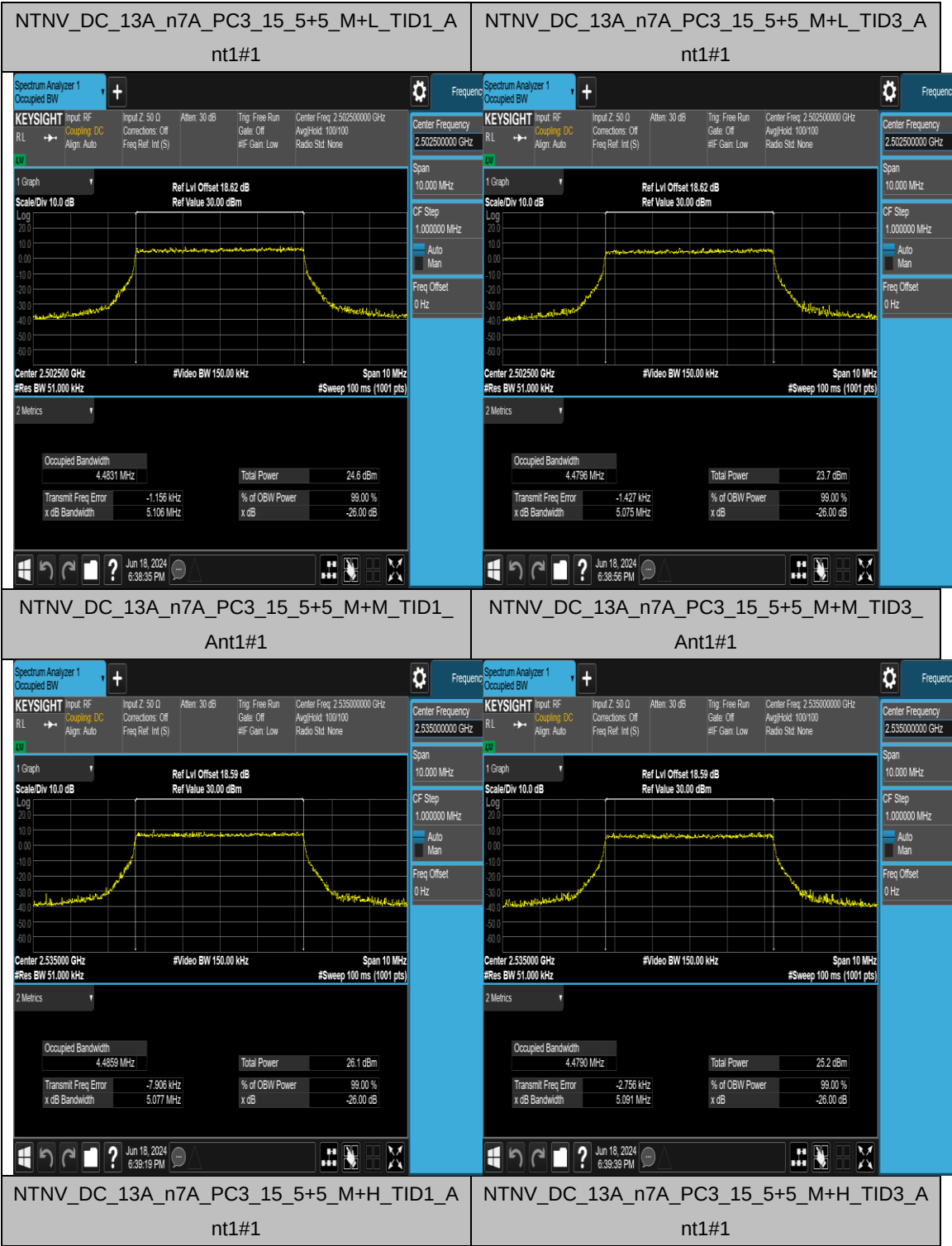


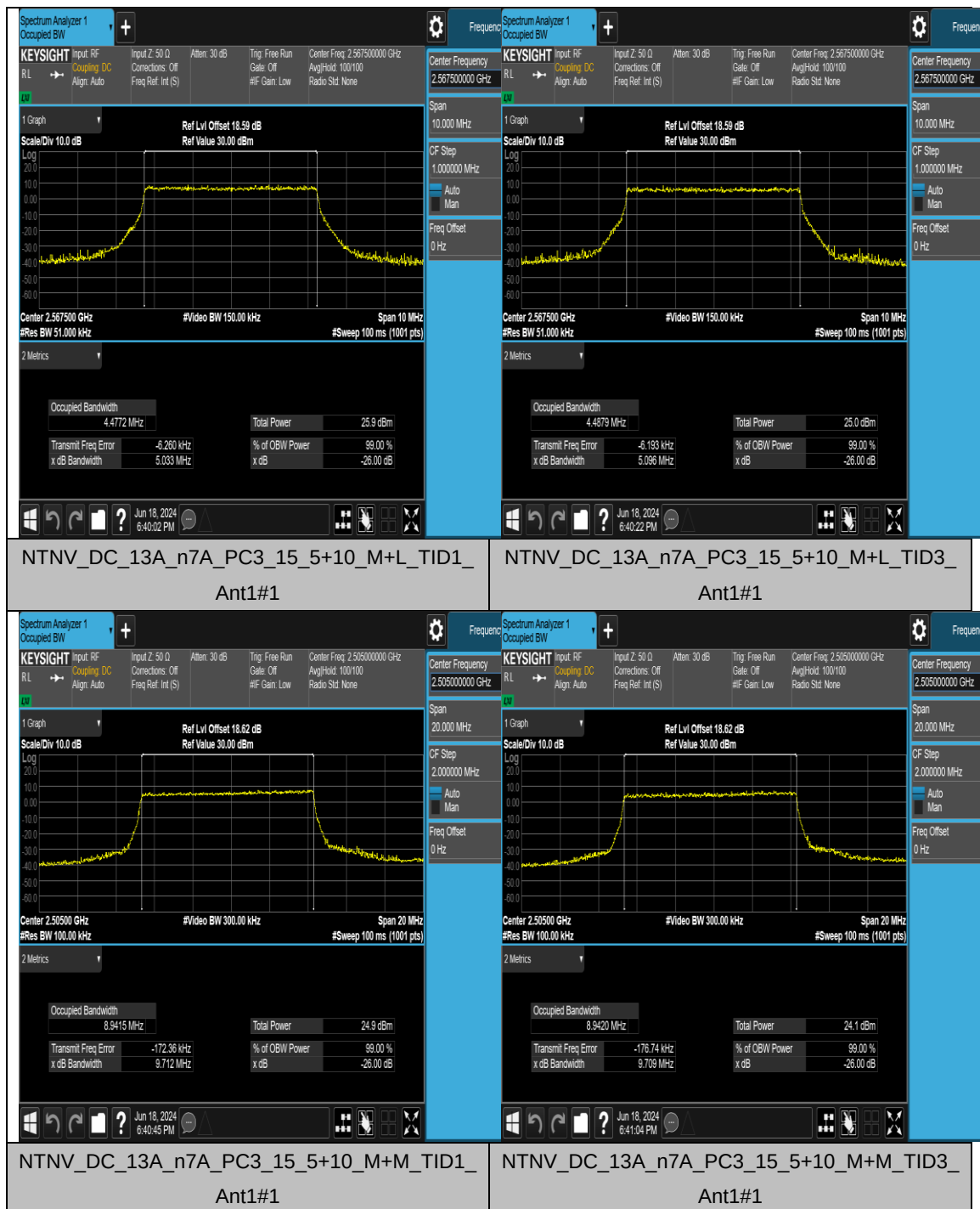


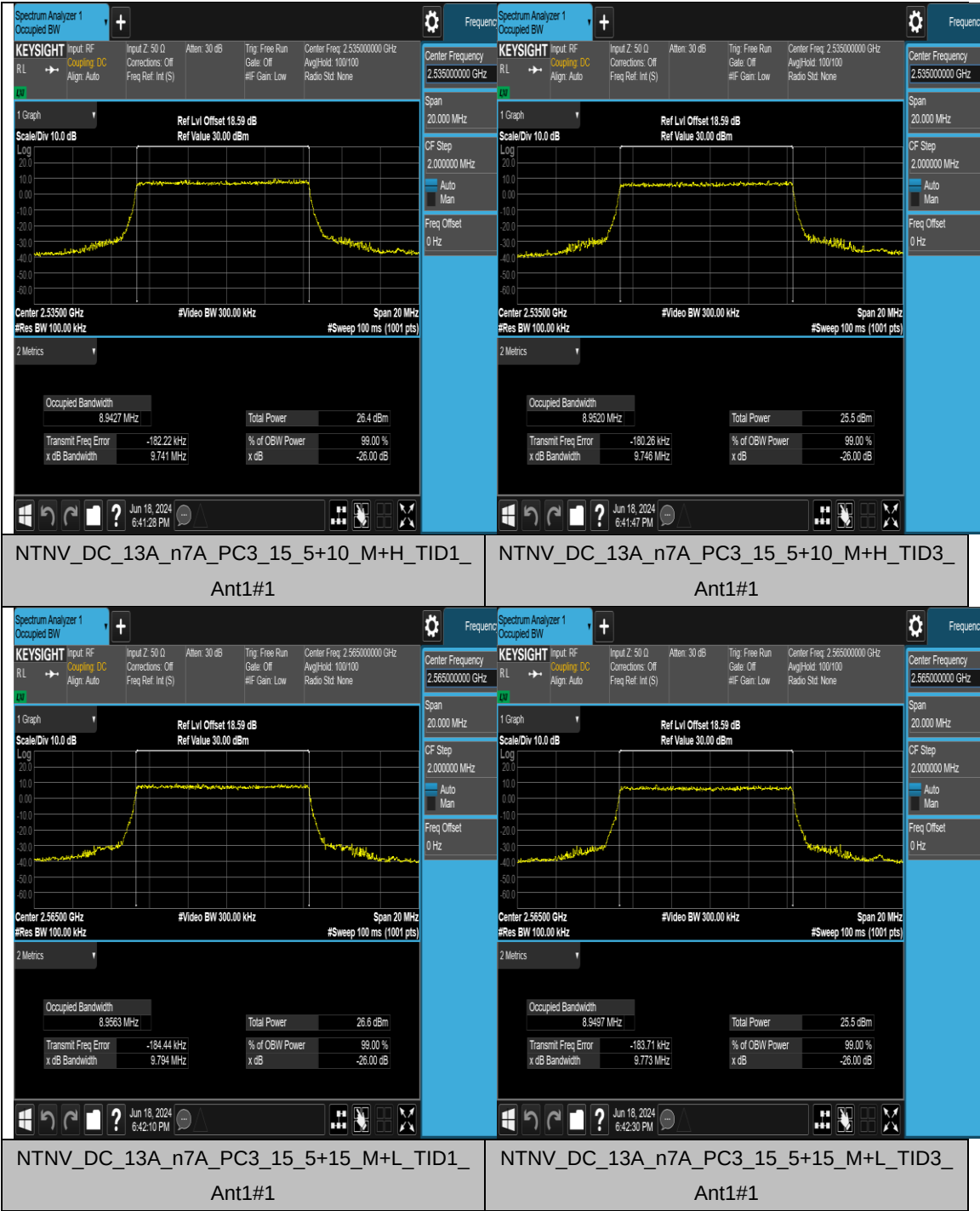
Appendix C: 26dB Bandwidth and Occupied Bandwidth for**NSA****Test Result**

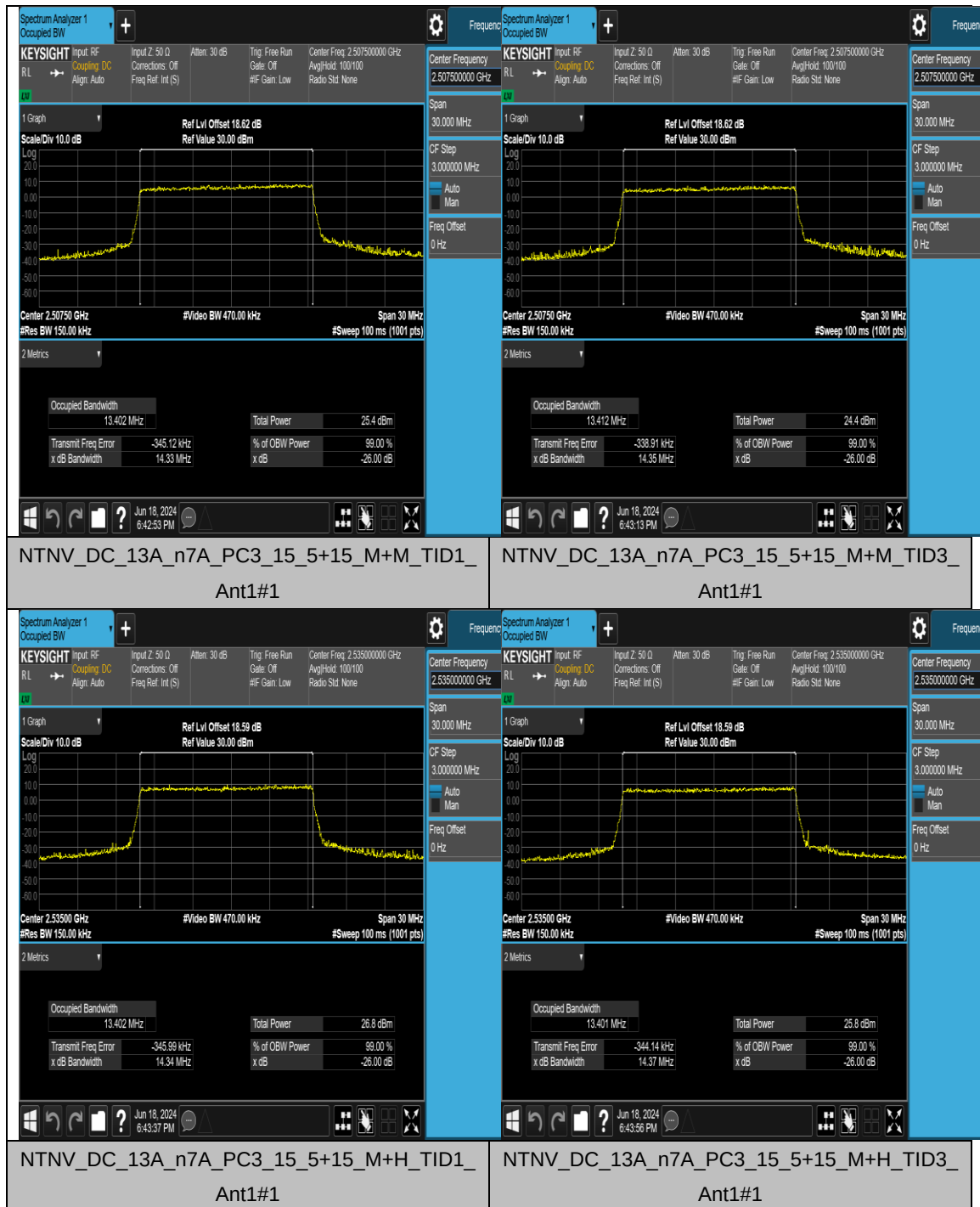
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
DC_13A_n7A	15	5+5	DFT-QPSK	M+L	Outer_Full	4.4831	5.106	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+L	Outer_Full	4.4796	5.075	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+M	Outer_Full	4.4859	5.077	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+M	Outer_Full	4.4790	5.091	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+H	Outer_Full	4.4772	5.033	PASS
DC_13A_n7A	15	5+5	DFT-16QAM	M+H	Outer_Full	4.4879	5.096	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+L	Outer_Full	8.9415	9.712	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+L	Outer_Full	8.9420	9.709	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+M	Outer_Full	8.9427	9.741	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+M	Outer_Full	8.9520	9.746	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+H	Outer_Full	8.9563	9.794	PASS
DC_13A_n7A	15	5+10	DFT-16QAM	M+H	Outer_Full	8.9497	9.773	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+L	Outer_Full	13.402	14.33	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+L	Outer_Full	13.412	14.35	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+M	Outer_Full	13.402	14.34	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+M	Outer_Full	13.401	14.37	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+H	Outer_Full	13.400	14.39	PASS
DC_13A_n7A	15	5+15	DFT-16QAM	M+H	Outer_Full	13.418	14.32	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+L	Outer_Full	17.821	18.92	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+L	Outer_Full	17.828	18.92	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+M	Outer_Full	17.864	18.92	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+M	Outer_Full	17.867	18.86	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+H	Outer_Full	17.867	18.97	PASS
DC_13A_n7A	15	5+20	DFT-16QAM	M+H	Outer_Full	17.884	18.90	PASS

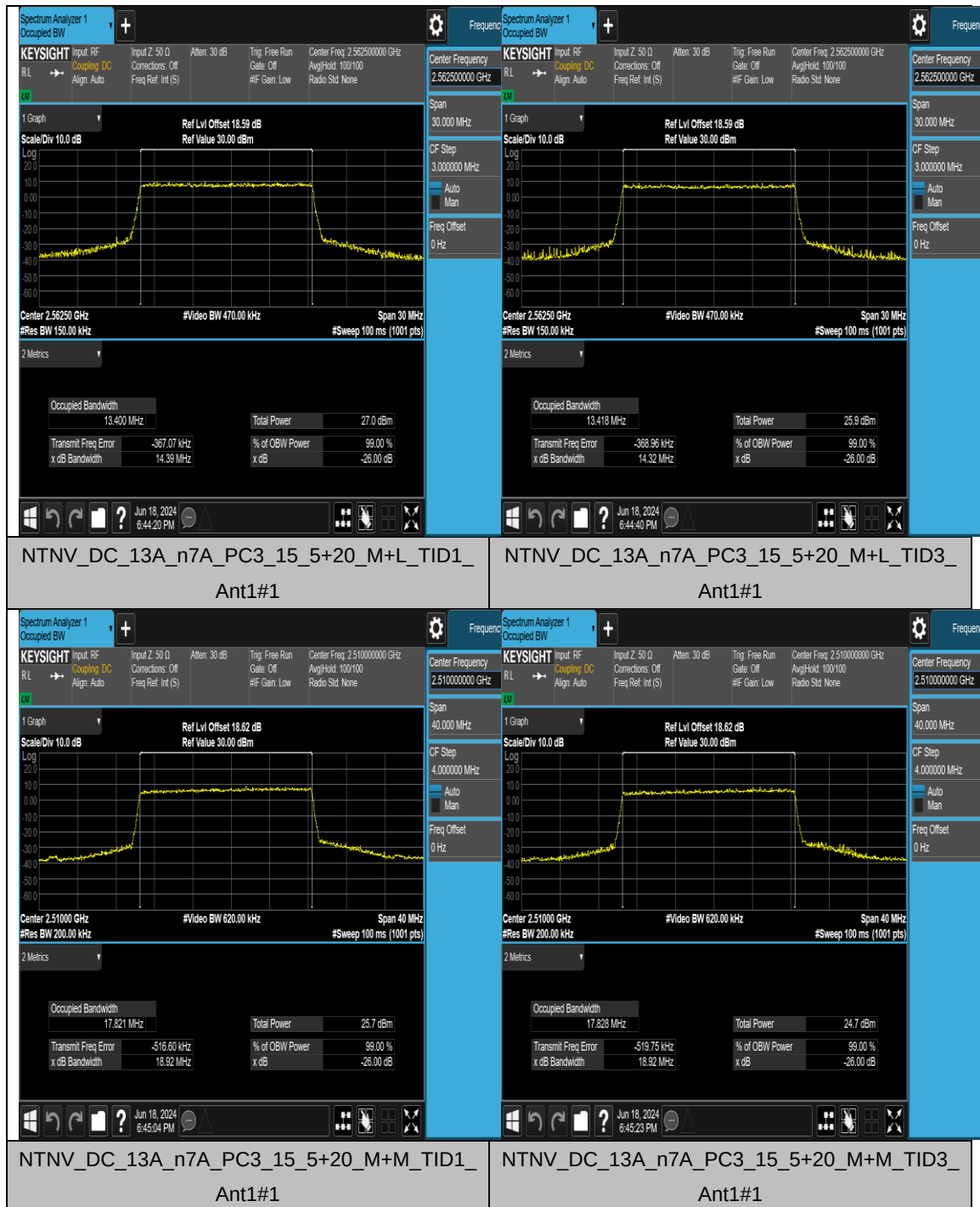
Test Graphs

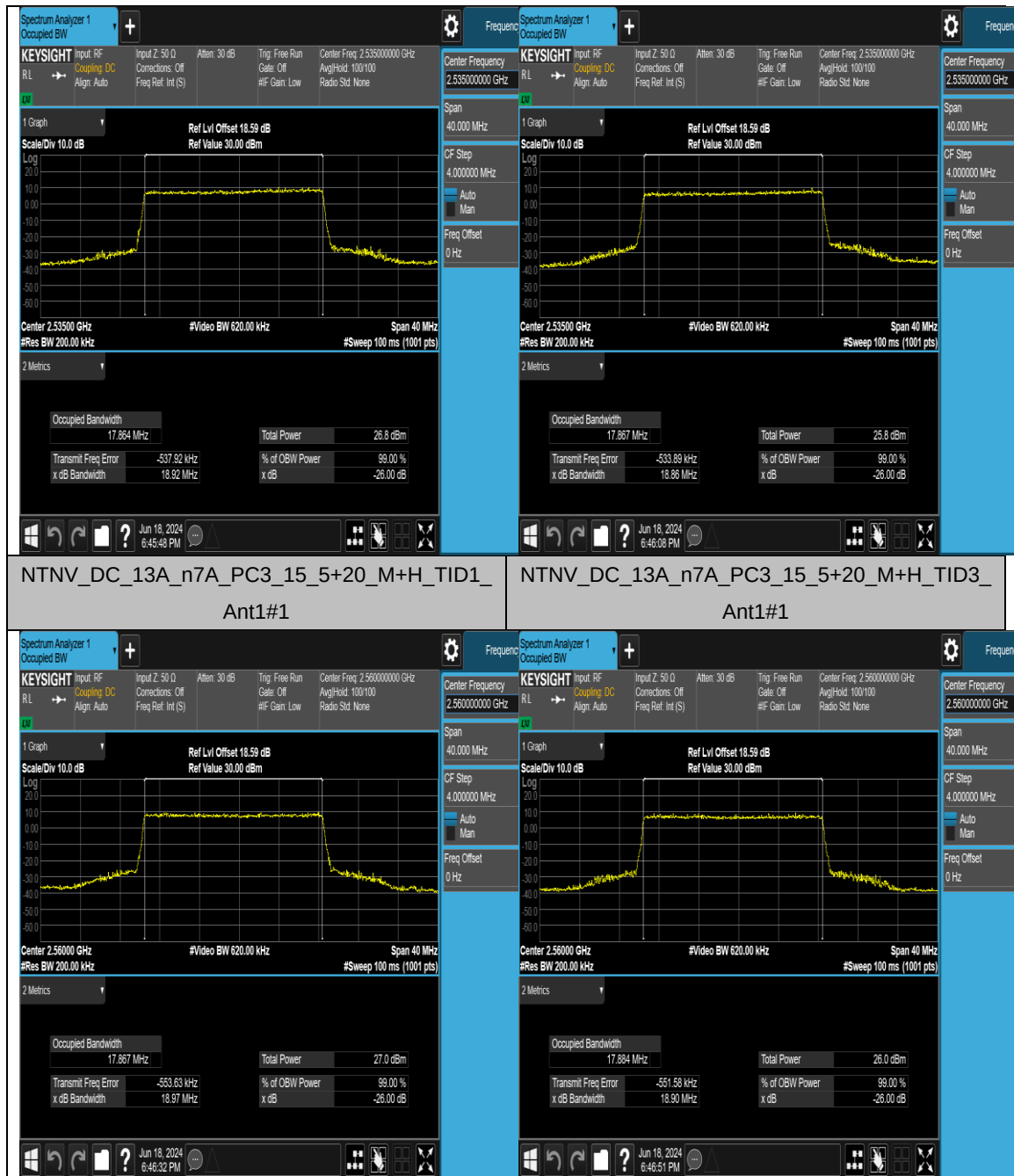












Appendix D: Band Edge for NSA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Verdict
DC_13A_n7A	15	5+5	DFT-QPSK	M+L	Outer_Full	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+L	Edge_1RB_Left	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+H	Outer_Full	PASS
DC_13A_n7A	15	5+5	DFT-QPSK	M+H	Edge_1RB_Right	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+L	Outer_Full	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+L	Edge_1RB_Left	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+H	Outer_Full	PASS
DC_13A_n7A	15	5+10	DFT-QPSK	M+H	Edge_1RB_Right	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+L	Outer_Full	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+L	Edge_1RB_Left	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+H	Outer_Full	PASS
DC_13A_n7A	15	5+15	DFT-QPSK	M+H	Edge_1RB_Right	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+L	Outer_Full	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+L	Edge_1RB_Left	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+H	Outer_Full	PASS
DC_13A_n7A	15	5+20	DFT-QPSK	M+H	Edge_1RB_Right	PASS

Test Graphs

