

Appendix for N5

Product Name: 5G Window CPE

Model No: TITAN 5100

Appendix A: Average Power Output Data

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Power Class	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	22.00	PC3	PASS
N5	15	5	DFT-QPSK	L	Inner_Full	23.00	PC3	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	22.15	PC3	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Right	21.79	PC3	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	21.05	PC3	PASS
N5	15	5	DFT-16QAM	L	Inner_Full	21.90	PC3	PASS
N5	15	5	DFT-16QAM	L	Edge_1RB_Left	21.15	PC3	PASS
N5	15	5	DFT-16QAM	L	Edge_1RB_Right	20.86	PC3	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	21.99	PC3	PASS
N5	15	5	DFT-QPSK	M	Inner_Full	22.94	PC3	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Left	21.86	PC3	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Right	22.17	PC3	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	21.10	PC3	PASS
N5	15	5	DFT-16QAM	M	Inner_Full	21.94	PC3	PASS
N5	15	5	DFT-16QAM	M	Edge_1RB_Left	21.23	PC3	PASS
N5	15	5	DFT-16QAM	M	Edge_1RB_Right	21.13	PC3	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	22.05	PC3	PASS
N5	15	5	DFT-QPSK	H	Inner_Full	23.12	PC3	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Left	22.00	PC3	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Right	21.87	PC3	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	21.11	PC3	PASS
N5	15	5	DFT-16QAM	H	Inner_Full	22.11	PC3	PASS
N5	15	5	DFT-16QAM	H	Edge_1RB_Left	21.11	PC3	PASS
N5	15	5	DFT-16QAM	H	Edge_1RB_Right	21.31	PC3	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	21.96	PC3	PASS
N5	15	10	DFT-QPSK	L	Inner_Full	22.90	PC3	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	22.28	PC3	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Right	21.95	PC3	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	20.91	PC3	PASS
N5	15	10	DFT-16QAM	L	Inner_Full	21.93	PC3	PASS
N5	15	10	DFT-16QAM	L	Edge_1RB_Left	20.96	PC3	PASS
N5	15	10	DFT-16QAM	L	Edge_1RB_Right	20.99	PC3	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	22.02	PC3	PASS
N5	15	10	DFT-QPSK	M	Inner_Full	23.05	PC3	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Left	21.92	PC3	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Right	21.76	PC3	PASS

N5	15	10	DFT-16QAM	M	Outer_Full	21.01	PC3	PASS
N5	15	10	DFT-16QAM	M	Inner_Full	22.15	PC3	PASS
N5	15	10	DFT-16QAM	M	Edge_1RB_Left	20.78	PC3	PASS
N5	15	10	DFT-16QAM	M	Edge_1RB_Right	20.84	PC3	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	22.11	PC3	PASS
N5	15	10	DFT-QPSK	H	Inner_Full	23.17	PC3	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Left	22.20	PC3	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Right	21.72	PC3	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	21.05	PC3	PASS
N5	15	10	DFT-16QAM	H	Inner_Full	22.17	PC3	PASS
N5	15	10	DFT-16QAM	H	Edge_1RB_Left	21.20	PC3	PASS
N5	15	10	DFT-16QAM	H	Edge_1RB_Right	20.92	PC3	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	22.10	PC3	PASS
N5	15	15	DFT-QPSK	L	Inner_Full	23.17	PC3	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Left	22.49	PC3	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Right	21.96	PC3	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	21.06	PC3	PASS
N5	15	15	DFT-16QAM	L	Inner_Full	21.99	PC3	PASS
N5	15	15	DFT-16QAM	L	Edge_1RB_Left	21.22	PC3	PASS
N5	15	15	DFT-16QAM	L	Edge_1RB_Right	21.09	PC3	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	22.26	PC3	PASS
N5	15	15	DFT-QPSK	M	Inner_Full	23.12	PC3	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Left	22.24	PC3	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Right	22.00	PC3	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	21.21	PC3	PASS
N5	15	15	DFT-16QAM	M	Inner_Full	22.14	PC3	PASS
N5	15	15	DFT-16QAM	M	Edge_1RB_Left	20.84	PC3	PASS
N5	15	15	DFT-16QAM	M	Edge_1RB_Right	21.71	PC3	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	22.31	PC3	PASS
N5	15	15	DFT-QPSK	H	Inner_Full	23.25	PC3	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Left	22.31	PC3	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Right	22.10	PC3	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	21.26	PC3	PASS
N5	15	15	DFT-16QAM	H	Inner_Full	22.38	PC3	PASS
N5	15	15	DFT-16QAM	H	Edge_1RB_Left	21.52	PC3	PASS
N5	15	15	DFT-16QAM	H	Edge_1RB_Right	21.19	PC3	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	22.26	PC3	PASS
N5	15	20	DFT-QPSK	L	Inner_Full	23.24	PC3	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	22.29	PC3	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Right	22.16	PC3	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	21.13	PC3	PASS
N5	15	20	DFT-16QAM	L	Inner_Full	22.14	PC3	PASS

N5	15	20	DFT-16QAM	L	Edge_1RB_Left	21.53	PC3	PASS
N5	15	20	DFT-16QAM	L	Edge_1RB_Right	21.12	PC3	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	22.22	PC3	PASS
N5	15	20	DFT-QPSK	M	Inner_Full	23.25	PC3	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Left	22.10	PC3	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Right	21.85	PC3	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	21.18	PC3	PASS
N5	15	20	DFT-16QAM	M	Inner_Full	22.11	PC3	PASS
N5	15	20	DFT-16QAM	M	Edge_1RB_Left	20.95	PC3	PASS
N5	15	20	DFT-16QAM	M	Edge_1RB_Right	20.58	PC3	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	22.21	PC3	PASS
N5	15	20	DFT-QPSK	H	Inner_Full	23.27	PC3	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Left	22.23	PC3	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Right	21.86	PC3	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	21.25	PC3	PASS
N5	15	20	DFT-16QAM	H	Inner_Full	22.26	PC3	PASS
N5	15	20	DFT-16QAM	H	Edge_1RB_Left	21.23	PC3	PASS
N5	15	20	DFT-16QAM	H	Edge_1RB_Right	20.59	PC3	PASS

Appendix B: Peak-to-Average Ratio for SA

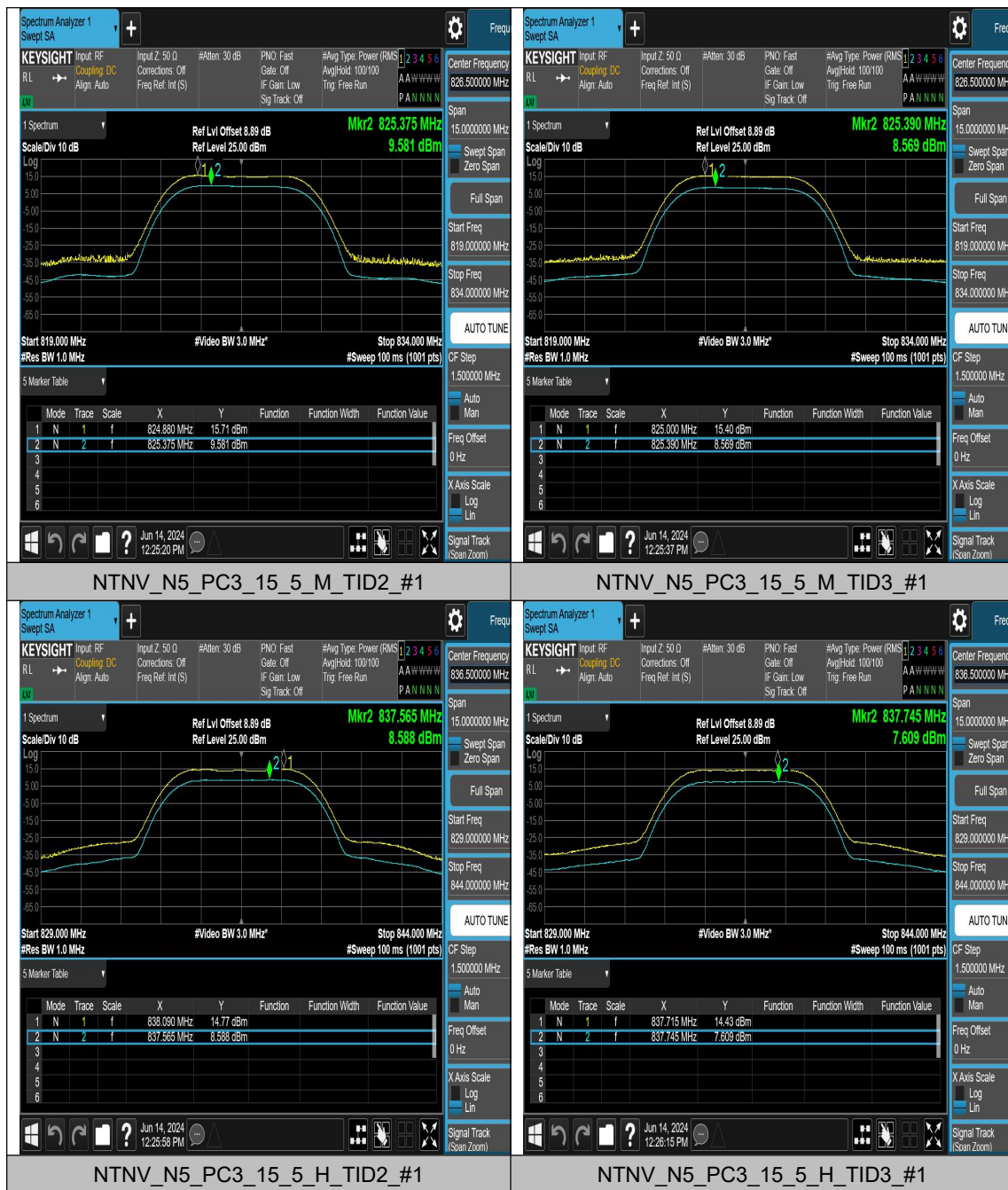
Peak-to-Average Ratio(PAPR)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	100%	0.00	6.13	≤13	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	100%	0.00	6.83	≤13	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	100%	0.00	6.18	≤13	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	100%	0.00	6.82	≤13	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	100%	0.00	6.16	≤13	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	100%	0.00	6.86	≤13	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	100%	0.00	7.07	≤13	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	100%	0.00	7.35	≤13	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	100%	0.00	7.03	≤13	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	100%	0.00	12.22	≤13	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	100%	0.00	7.00	≤13	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	100%	0.00	7.40	≤13	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	100%	0.00	7.36	≤13	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	100%	0.00	7.55	≤13	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	100%	0.00	7.38	≤13	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	100%	0.00	7.72	≤13	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	100%	0.00	7.42	≤13	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	100%	0.00	7.58	≤13	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	100%	0.00	7.49	≤13	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	100%	0.00	7.74	≤13	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	100%	0.00	7.56	≤13	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	100%	0.00	7.74	≤13	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	100%	0.00	7.46	≤13	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	100%	0.00	7.64	≤13	PASS

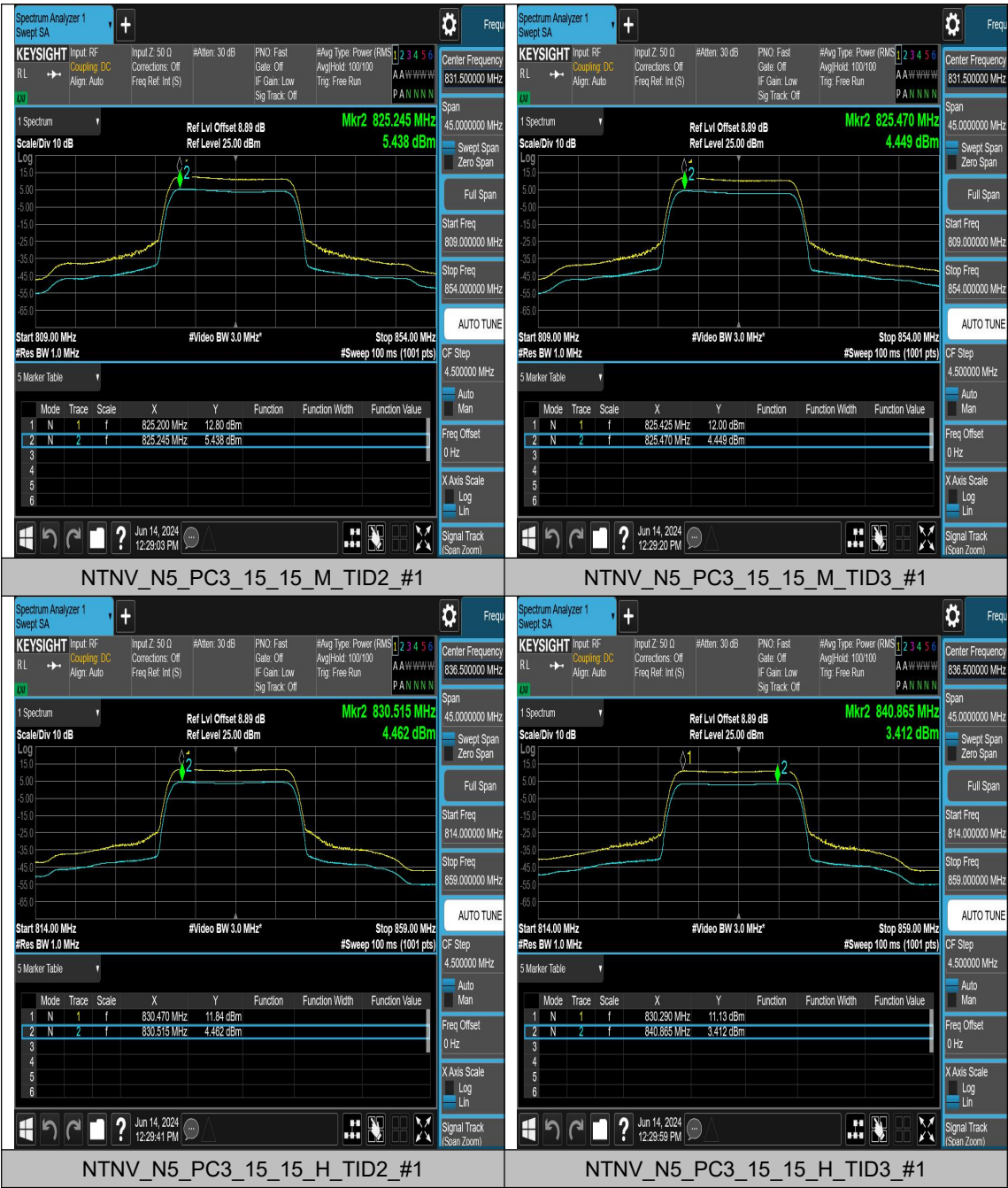
Test Graphs

NTNV_N5_PC3_15_5_L_TID2_#1	NTNV_N5_PC3_15_5_L_TID3_#1
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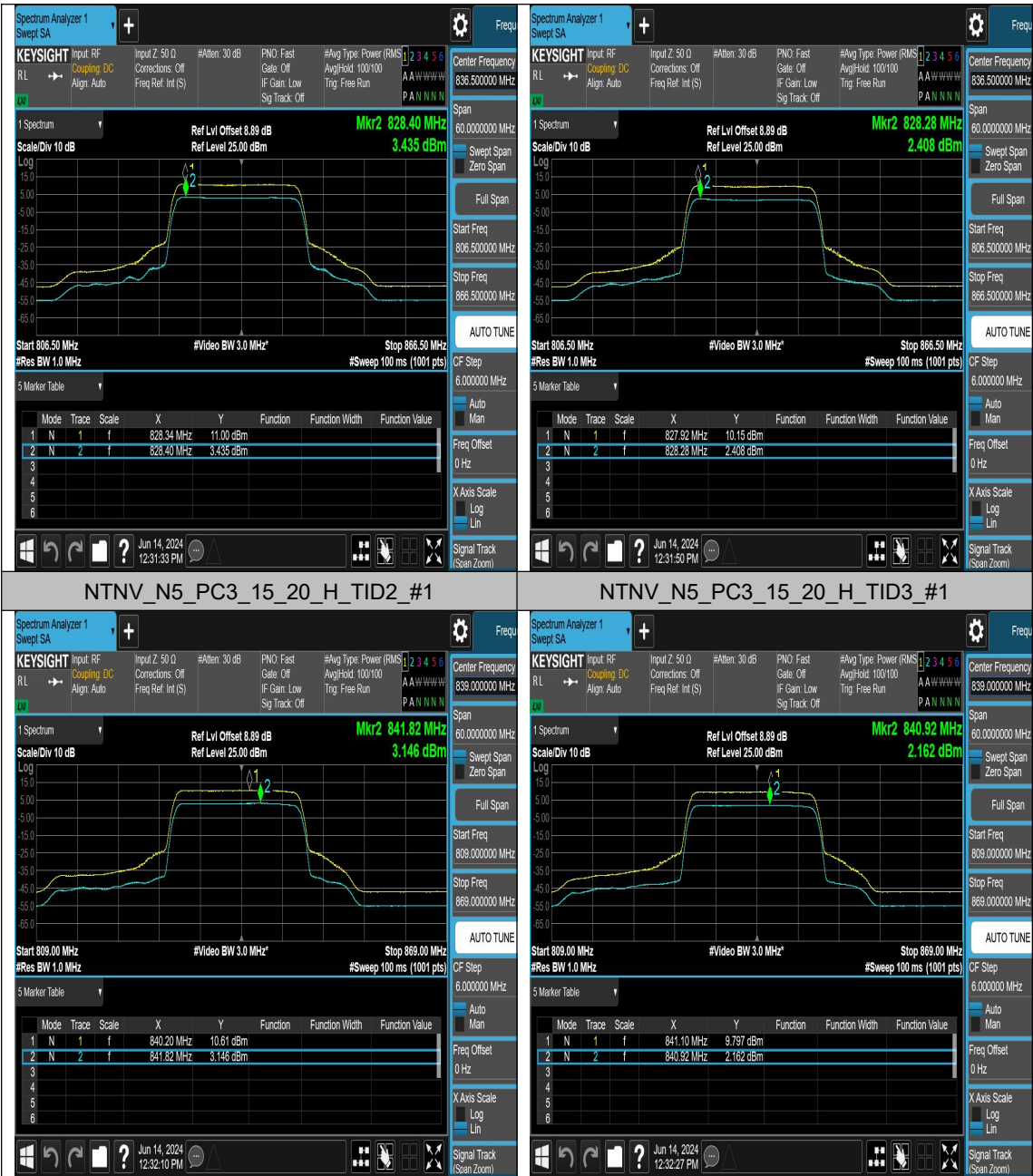












Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	4.4760	5.145	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	4.4736	5.059	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	4.4841	5.109	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	4.4813	5.107	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	4.4802	5.067	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	4.4821	5.061	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	8.9331	9.679	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	8.9344	9.635	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	8.9419	9.806	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	8.9505	9.742	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	8.9389	9.723	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	8.9352	9.759	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	13.409	14.31	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	13.419	14.35	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	13.405	14.40	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	13.418	14.38	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	13.399	14.32	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	13.377	14.35	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	17.872	18.95	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	17.862	18.89	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	17.871	18.94	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	17.853	18.90	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	17.806	18.89	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	17.830	18.88	PASS

Test Graphs

