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Appendix B.21

NR Band n2



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Ant 31:

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
N2	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.36	21.93	33.00	PASS
N2	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.33	21.90	33.00	PASS
N2	15	5	DFT-PI2BPSK	L	Outer_Full	22.78	21.35	33.00	PASS
N2	15	5	DFT-QPSK	L	Inner_1RB_Left	23.35	21.92	33.00	PASS
N2	15	5	DFT-QPSK	L	Inner_1RB_Right	23.24	21.81	33.00	PASS
N2	15	5	DFT-QPSK	L	Outer_Full	22.30	20.87	33.00	PASS
N2	15	5	DFT-16QAM	L	Inner_1RB_Left	22.30	20.87	33.00	PASS
N2	15	5	DFT-16QAM	L	Inner_1RB_Right	22.25	20.82	33.00	PASS
N2	15	5	DFT-16QAM	L	Outer_Full	21.31	19.88	33.00	PASS
N2	15	5	DFT-64QAM	L	Inner_1RB_Left	20.93	19.50	33.00	PASS
N2	15	5	DFT-64QAM	L	Inner_1RB_Right	20.70	19.27	33.00	PASS
N2	15	5	DFT-64QAM	L	Outer_Full	20.85	19.42	33.00	PASS
N2	15	5	DFT-256QAM	L	Inner_1RB_Left	18.41	16.98	33.00	PASS
N2	15	5	DFT-256QAM	L	Inner_1RB_Right	18.36	16.93	33.00	PASS
N2	15	5	DFT-256QAM	L	Outer_Full	18.71	17.28	33.00	PASS
N2	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.42	21.99	33.00	PASS
N2	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.26	21.83	33.00	PASS
N2	15	5	DFT-PI2BPSK	M	Outer_Full	22.95	21.52	33.00	PASS
N2	15	5	DFT-QPSK	M	Inner_1RB_Left	23.36	21.93	33.00	PASS
N2	15	5	DFT-QPSK	M	Inner_1RB_Right	23.30	21.87	33.00	PASS
N2	15	5	DFT-QPSK	M	Outer_Full	22.36	20.93	33.00	PASS
N2	15	5	DFT-16QAM	M	Inner_1RB_Left	22.30	20.87	33.00	PASS
N2	15	5	DFT-16QAM	M	Inner_1RB_Right	22.24	20.81	33.00	PASS
N2	15	5	DFT-16QAM	M	Outer_Full	21.38	19.95	33.00	PASS
N2	15	5	DFT-64QAM	M	Inner_1RB_Left	21.06	19.63	33.00	PASS
N2	15	5	DFT-64QAM	M	Inner_1RB_Right	21.13	19.70	33.00	PASS
N2	15	5	DFT-64QAM	M	Outer_Full	20.85	19.42	33.00	PASS
N2	15	5	DFT-256QAM	M	Inner_1RB_Left	18.45	17.02	33.00	PASS



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N2	15	5	DFT-256QAM	M	Inner_1RB_Right	18.51	17.08	33.00	PASS
N2	15	5	DFT-256QAM	M	Outer_Full	18.97	17.54	33.00	PASS
N2	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.18	21.75	33.00	PASS
N2	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	23.10	21.67	33.00	PASS
N2	15	5	DFT-PI2BPSK	H	Outer_Full	22.76	21.33	33.00	PASS
N2	15	5	DFT-QPSK	H	Inner_1RB_Left	23.20	21.77	33.00	PASS
N2	15	5	DFT-QPSK	H	Inner_1RB_Right	23.10	21.67	33.00	PASS
N2	15	5	DFT-QPSK	H	Outer_Full	22.25	20.82	33.00	PASS
N2	15	5	DFT-16QAM	H	Inner_1RB_Left	22.21	20.78	33.00	PASS
N2	15	5	DFT-16QAM	H	Inner_1RB_Right	22.16	20.73	33.00	PASS
N2	15	5	DFT-16QAM	H	Outer_Full	21.27	19.84	33.00	PASS
N2	15	5	DFT-64QAM	H	Inner_1RB_Left	20.92	19.49	33.00	PASS
N2	15	5	DFT-64QAM	H	Inner_1RB_Right	20.88	19.45	33.00	PASS
N2	15	5	DFT-64QAM	H	Outer_Full	20.77	19.34	33.00	PASS
N2	15	5	DFT-256QAM	H	Inner_1RB_Left	18.22	16.79	33.00	PASS
N2	15	5	DFT-256QAM	H	Inner_1RB_Right	18.17	16.74	33.00	PASS
N2	15	5	DFT-256QAM	H	Outer_Full	18.65	17.22	33.00	PASS
N2	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	23.36	21.93	33.00	PASS
N2	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	23.30	21.87	33.00	PASS
N2	15	10	DFT-PI2BPSK	L	Outer_Full	22.87	21.44	33.00	PASS
N2	15	10	DFT-QPSK	L	Inner_1RB_Left	23.35	21.92	33.00	PASS
N2	15	10	DFT-QPSK	L	Inner_1RB_Right	23.26	21.83	33.00	PASS
N2	15	10	DFT-QPSK	L	Outer_Full	23.36	21.93	33.00	PASS
N2	15	10	DFT-16QAM	L	Inner_1RB_Left	22.28	20.85	33.00	PASS
N2	15	10	DFT-16QAM	L	Inner_1RB_Right	22.21	20.78	33.00	PASS
N2	15	10	DFT-16QAM	L	Outer_Full	21.35	19.92	33.00	PASS
N2	15	10	DFT-64QAM	L	Inner_1RB_Left	21.11	19.68	33.00	PASS
N2	15	10	DFT-64QAM	L	Inner_1RB_Right	21.04	19.61	33.00	PASS
N2	15	10	DFT-64QAM	L	Outer_Full	21.12	19.69	33.00	PASS
N2	15	10	DFT-256QAM	L	Inner_1RB_Left	18.36	16.93	33.00	PASS
N2	15	10	DFT-256QAM	L	Inner_1RB_Right	18.32	16.89	33.00	PASS
N2	15	10	DFT-256QAM	L	Outer_Full	18.87	17.44	33.00	PASS
N2	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.33	21.90	33.00	PASS
N2	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	23.34	21.91	33.00	PASS
N2	15	10	DFT-PI2BPSK	M	Outer_Full	22.93	21.50	33.00	PASS
N2	15	10	DFT-QPSK	M	Inner_1RB_Left	23.59	22.16	33.00	PASS
N2	15	10	DFT-16QAM	M	Inner_1RB_Right	22.20	20.77	33.00	PASS



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N2	15	10	DFT-16QAM	M	Outer_Full	21.34	19.91	33.00	PASS
N2	15	10	DFT-64QAM	M	Inner_1RB_Left	21.05	19.62	33.00	PASS
N2	15	10	DFT-64QAM	M	Inner_1RB_Right	20.96	19.53	33.00	PASS
N2	15	10	DFT-64QAM	M	Outer_Full	20.87	19.44	33.00	PASS
N2	15	10	DFT-256QAM	M	Inner_1RB_Left	18.41	16.98	33.00	PASS
N2	15	10	DFT-256QAM	M	Inner_1RB_Right	18.27	16.84	33.00	PASS
N2	15	10	DFT-256QAM	M	Outer_Full	18.80	17.37	33.00	PASS
N2	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	23.22	21.79	33.00	PASS
N2	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	23.20	21.77	33.00	PASS
N2	15	10	DFT-PI2BPSK	H	Outer_Full	22.79	21.36	33.00	PASS
N2	15	10	DFT-QPSK	H	Inner_1RB_Left	17.99	16.56	33.00	PASS
N2	15	10	DFT-QPSK	H	Inner_1RB_Right	23.13	21.70	33.00	PASS
N2	15	10	DFT-QPSK	H	Outer_Full	22.35	20.92	33.00	PASS
N2	15	10	DFT-16QAM	H	Inner_1RB_Left	22.17	20.74	33.00	PASS
N2	15	10	DFT-16QAM	H	Inner_1RB_Right	22.19	20.76	33.00	PASS
N2	15	10	DFT-16QAM	H	Outer_Full	21.26	19.83	33.00	PASS
N2	15	10	DFT-64QAM	H	Inner_1RB_Left	21.00	19.57	33.00	PASS
N2	15	10	DFT-64QAM	H	Inner_1RB_Right	20.93	19.50	33.00	PASS
N2	15	10	DFT-64QAM	H	Outer_Full	20.85	19.42	33.00	PASS
N2	15	10	DFT-256QAM	H	Inner_1RB_Left	18.28	16.85	33.00	PASS
N2	15	10	DFT-256QAM	H	Inner_1RB_Right	18.14	16.71	33.00	PASS
N2	15	10	DFT-256QAM	H	Outer_Full	18.73	17.30	33.00	PASS
N2	15	15	DFT-PI2BPSK	L	Inner_1RB_Left	23.24	21.81	33.00	PASS
N2	15	15	DFT-PI2BPSK	L	Inner_1RB_Right	23.35	21.92	33.00	PASS
N2	15	15	DFT-PI2BPSK	L	Outer_Full	22.82	21.39	33.00	PASS
N2	15	15	DFT-QPSK	L	Inner_1RB_Left	23.29	21.86	33.00	PASS
N2	15	15	DFT-QPSK	L	Inner_1RB_Right	23.33	21.90	33.00	PASS
N2	15	15	DFT-QPSK	L	Outer_Full	22.39	20.96	33.00	PASS
N2	15	15	DFT-16QAM	L	Inner_1RB_Left	22.31	20.88	33.00	PASS
N2	15	15	DFT-16QAM	L	Inner_1RB_Right	22.27	20.84	33.00	PASS
N2	15	15	DFT-16QAM	L	Outer_Full	21.39	19.96	33.00	PASS
N2	15	15	DFT-64QAM	L	Inner_1RB_Left	20.86	19.43	33.00	PASS
N2	15	15	DFT-64QAM	L	Inner_1RB_Right	20.92	19.49	33.00	PASS
N2	15	15	DFT-64QAM	L	Outer_Full	20.90	19.47	33.00	PASS
N2	15	15	DFT-256QAM	L	Inner_1RB_Left	18.25	16.82	33.00	PASS
N2	15	15	DFT-256QAM	L	Inner_1RB_Right	18.27	16.84	33.00	PASS
N2	15	15	DFT-256QAM	L	Outer_Full	18.56	17.13	33.00	PASS



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N2	15	15	DFT-PI2BPSK	M	Inner_1RB_Left	23.21	21.78	33.00	PASS
N2	15	15	DFT-PI2BPSK	M	Inner_1RB_Right	23.23	21.80	33.00	PASS
N2	15	15	DFT-PI2BPSK	M	Outer_Full	22.84	21.41	33.00	PASS
N2	15	15	DFT-QPSK	M	Inner_1RB_Left	23.19	21.76	33.00	PASS
N2	15	15	DFT-QPSK	M	Inner_1RB_Right	23.13	21.70	33.00	PASS
N2	15	15	DFT-QPSK	M	Outer_Full	22.31	20.88	33.00	PASS
N2	15	15	DFT-16QAM	M	Inner_1RB_Left	22.18	20.75	33.00	PASS
N2	15	15	DFT-16QAM	M	Inner_1RB_Right	22.25	20.82	33.00	PASS
N2	15	15	DFT-16QAM	M	Outer_Full	21.40	19.97	33.00	PASS
N2	15	15	DFT-64QAM	M	Inner_1RB_Left	20.86	19.43	33.00	PASS
N2	15	15	DFT-64QAM	M	Inner_1RB_Right	21.11	19.68	33.00	PASS
N2	15	15	DFT-64QAM	M	Outer_Full	20.88	19.45	33.00	PASS
N2	15	15	DFT-256QAM	M	Inner_1RB_Left	18.33	16.90	33.00	PASS
N2	15	15	DFT-256QAM	M	Inner_1RB_Right	18.32	16.89	33.00	PASS
N2	15	15	DFT-256QAM	M	Outer_Full	18.80	17.37	33.00	PASS
N2	15	15	DFT-PI2BPSK	H	Inner_1RB_Left	23.15	21.72	33.00	PASS
N2	15	15	DFT-PI2BPSK	H	Inner_1RB_Right	23.14	21.71	33.00	PASS
N2	15	15	DFT-PI2BPSK	H	Outer_Full	22.82	21.39	33.00	PASS
N2	15	15	DFT-QPSK	H	Inner_1RB_Left	23.11	21.68	33.00	PASS
N2	15	15	DFT-QPSK	H	Inner_1RB_Right	23.13	21.70	33.00	PASS
N2	15	15	DFT-QPSK	H	Outer_Full	22.26	20.83	33.00	PASS
N2	15	15	DFT-16QAM	H	Inner_1RB_Left	22.05	20.62	33.00	PASS
N2	15	15	DFT-16QAM	H	Inner_1RB_Right	22.10	20.67	33.00	PASS
N2	15	15	DFT-16QAM	H	Outer_Full	21.35	19.92	33.00	PASS
N2	15	15	DFT-64QAM	H	Inner_1RB_Left	20.85	19.42	33.00	PASS
N2	15	15	DFT-64QAM	H	Inner_1RB_Right	20.82	19.39	33.00	PASS
N2	15	15	DFT-64QAM	H	Outer_Full	21.04	19.61	33.00	PASS
N2	15	15	DFT-256QAM	H	Inner_1RB_Left	18.19	16.76	33.00	PASS
N2	15	15	DFT-256QAM	H	Inner_1RB_Right	18.12	16.69	33.00	PASS
N2	15	15	DFT-256QAM	H	Outer_Full	18.29	16.86	33.00	PASS
N2	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	23.28	21.85	33.00	PASS
N2	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	23.39	21.96	33.00	PASS
N2	15	20	DFT-PI2BPSK	L	Outer_Full	22.94	21.51	33.00	PASS
N2	15	20	DFT-QPSK	L	Inner_1RB_Left	17.87	16.44	33.00	PASS
N2	15	20	DFT-QPSK	L	Inner_1RB_Right	23.24	21.81	33.00	PASS
N2	15	20	DFT-QPSK	L	Outer_Full	22.39	20.96	33.00	PASS
N2	15	20	DFT-16QAM	L	Inner_1RB_Left	22.10	20.67	33.00	PASS



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N2	15	20	DFT-16QAM	L	Inner_1RB_Right	22.33	20.90	33.00	PASS
N2	15	20	DFT-16QAM	L	Outer_Full	21.41	19.98	33.00	PASS
N2	15	20	DFT-64QAM	L	Inner_1RB_Left	20.88	19.45	33.00	PASS
N2	15	20	DFT-64QAM	L	Inner_1RB_Right	21.11	19.68	33.00	PASS
N2	15	20	DFT-64QAM	L	Outer_Full	20.99	19.56	33.00	PASS
N2	15	20	DFT-256QAM	L	Inner_1RB_Left	18.30	16.87	33.00	PASS
N2	15	20	DFT-256QAM	L	Inner_1RB_Right	18.41	16.98	33.00	PASS
N2	15	20	DFT-256QAM	L	Outer_Full	19.30	17.87	33.00	PASS
N2	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	23.30	21.87	33.00	PASS
N2	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	23.23	21.80	33.00	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	22.80	21.37	33.00	PASS
N2	15	20	DFT-QPSK	M	Inner_1RB_Left	23.26	21.83	33.00	PASS
N2	15	20	DFT-QPSK	M	Inner_1RB_Right	23.41	21.98	33.00	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	22.41	20.98	33.00	PASS
N2	15	20	DFT-16QAM	M	Inner_1RB_Left	22.23	20.80	33.00	PASS
N2	15	20	DFT-16QAM	M	Inner_1RB_Right	22.36	20.93	33.00	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	21.53	20.10	33.00	PASS
N2	15	20	DFT-64QAM	M	Inner_1RB_Left	20.78	19.35	33.00	PASS
N2	15	20	DFT-64QAM	M	Inner_1RB_Right	21.25	19.82	33.00	PASS
N2	15	20	DFT-64QAM	M	Outer_Full	21.13	19.70	33.00	PASS
N2	15	20	DFT-256QAM	M	Inner_1RB_Left	18.53	17.10	33.00	PASS
N2	15	20	DFT-256QAM	M	Inner_1RB_Right	18.36	16.93	33.00	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	19.41	17.98	33.00	PASS
N2	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	23.65	22.22	33.00	PASS
N2	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	23.35	21.92	33.00	PASS
N2	15	20	DFT-PI2BPSK	H	Outer_Full	22.87	21.44	33.00	PASS
N2	15	20	DFT-QPSK	H	Inner_1RB_Left	22.96	21.53	33.00	PASS
N2	15	20	DFT-QPSK	H	Inner_1RB_Right	23.35	21.92	33.00	PASS
N2	15	20	DFT-QPSK	H	Outer_Full	22.45	21.02	33.00	PASS
N2	15	20	DFT-16QAM	H	Inner_1RB_Left	22.35	20.92	33.00	PASS
N2	15	20	DFT-16QAM	H	Inner_1RB_Right	22.24	20.81	33.00	PASS
N2	15	20	DFT-16QAM	H	Outer_Full	21.55	20.12	33.00	PASS
N2	15	20	DFT-64QAM	H	Inner_1RB_Left	20.69	19.26	33.00	PASS
N2	15	20	DFT-64QAM	H	Inner_1RB_Right	21.26	19.83	33.00	PASS
N2	15	20	DFT-64QAM	H	Outer_Full	21.12	19.69	33.00	PASS
N2	15	20	DFT-256QAM	H	Inner_1RB_Left	18.56	17.13	33.00	PASS
N2	15	20	DFT-256QAM	H	Inner_1RB_Right	18.63	17.20	33.00	PASS



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N2	15	20	DFT-256QAM	H	Outer_Full	19.36	17.93	33.00	PASS
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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N2	15	20	DFT-256QAM	L	Outer_Full	100%	0.00	8.43	≤13	PASS
N2	15	20	CP-256QAM	L	Outer_Full	100%	0.00	9.55	≤13	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	100%	0.00	8.7	≤13	PASS
N2	15	20	CP-256QAM	M	Outer_Full	100%	0.00	9.23	≤13	PASS
N2	15	20	DFT-256QAM	H	Outer_Full	100%	0.00	8.62	≤13	PASS
N2	15	20	CP-256QAM	H	Outer_Full	100%	0.00	9.12	≤13	PASS



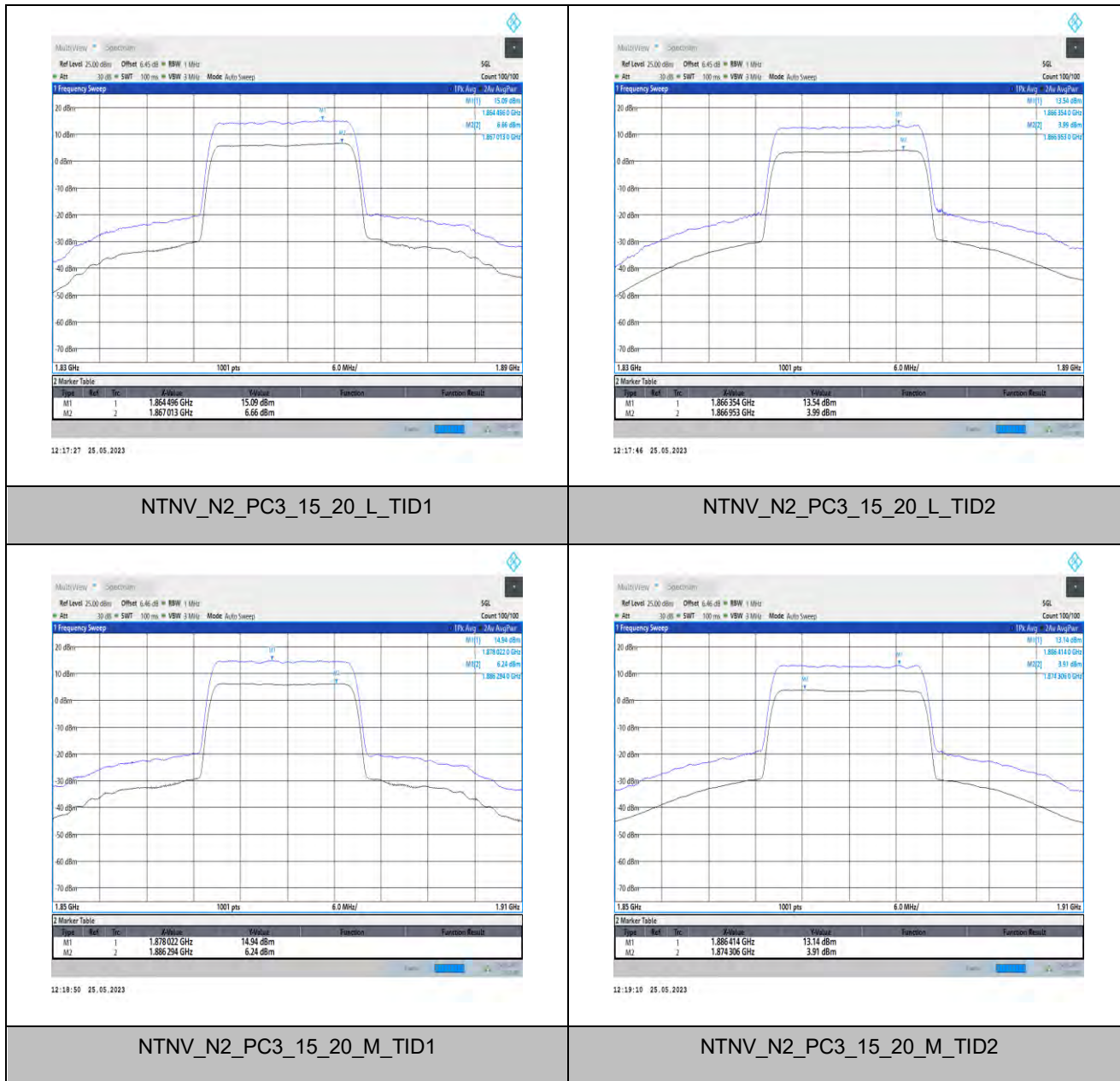
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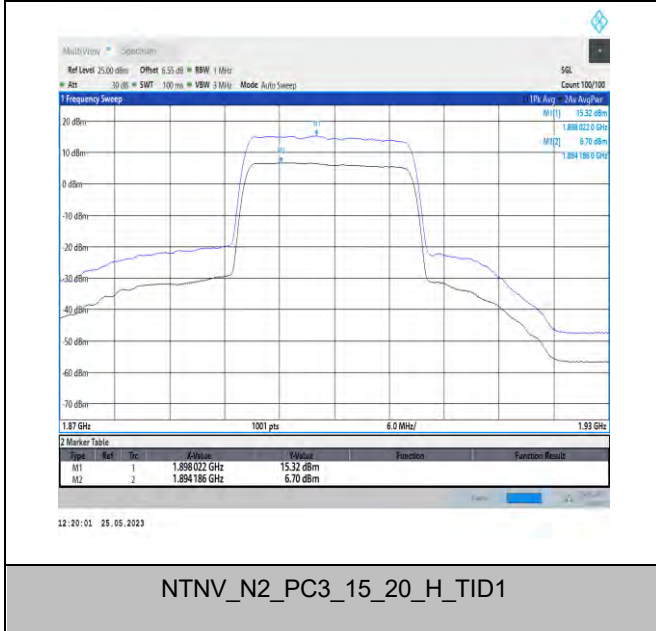
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Test Graphs

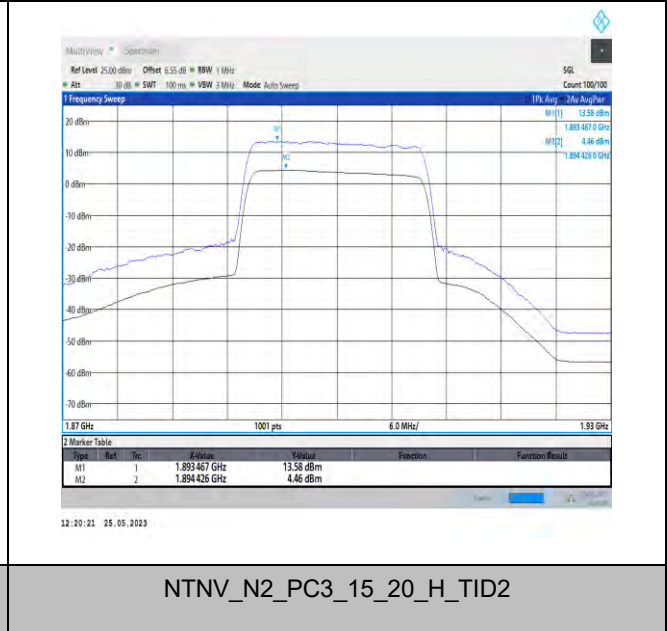


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NTVN_N2_PC3_15_20_H_TID1



NTVN_N2_PC3_15_20_H_TID2



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Modulation characteristics for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N2	15	20	DFT-PI2BPSK	M	Outer_Full	see graph	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	see graph	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	see graph	PASS
N2	15	20	DFT-64QAM	M	Outer_Full	see graph	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	see graph	PASS
N2	15	20	CP-QPSK	M	Outer_Full	see graph	PASS
N2	15	20	CP-16QAM	M	Outer_Full	see graph	PASS
N2	15	20	CP-64QAM	M	Outer_Full	see graph	PASS
N2	15	20	CP-256QAM	M	Outer_Full	see graph	PASS



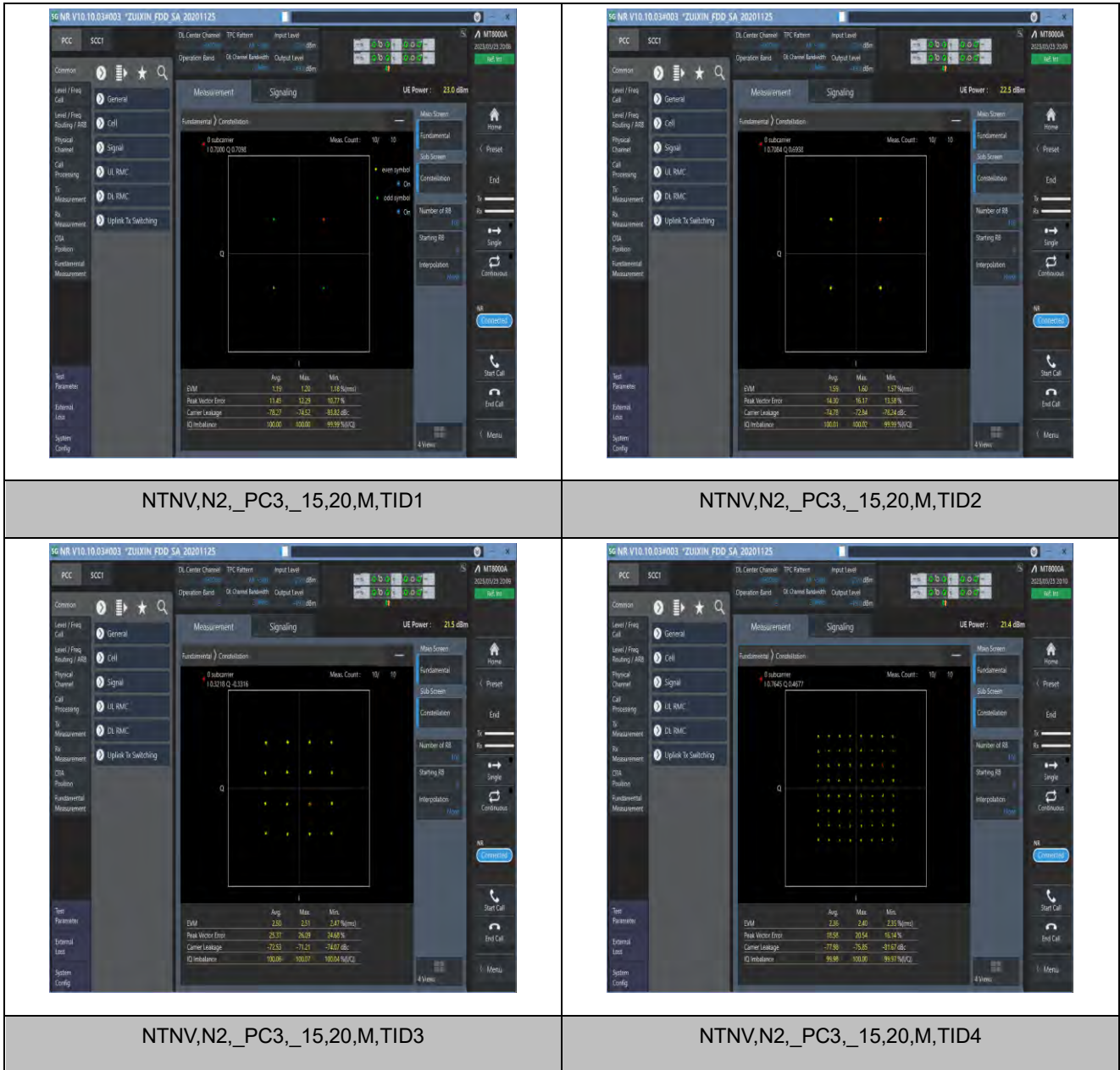
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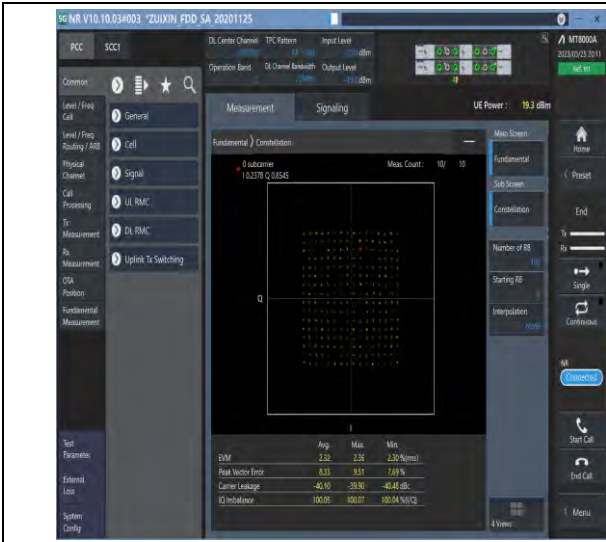
Test Graphs



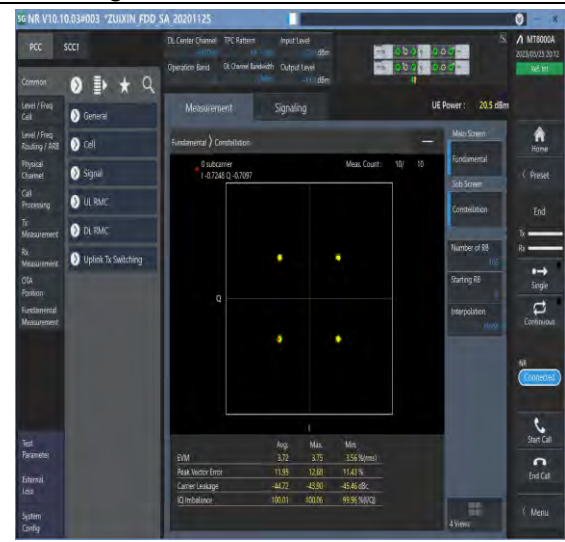
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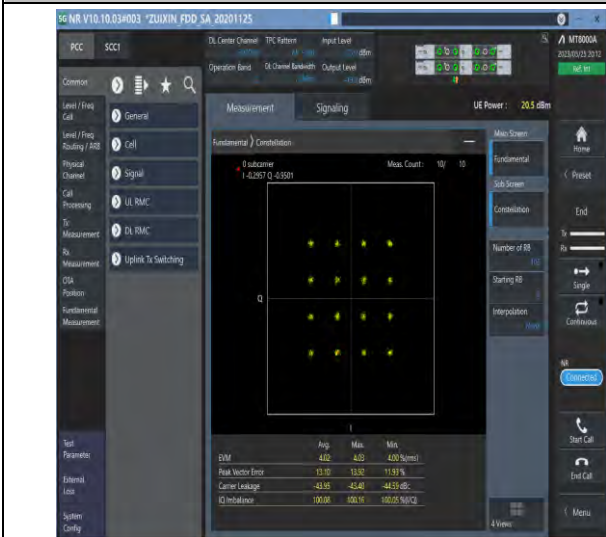
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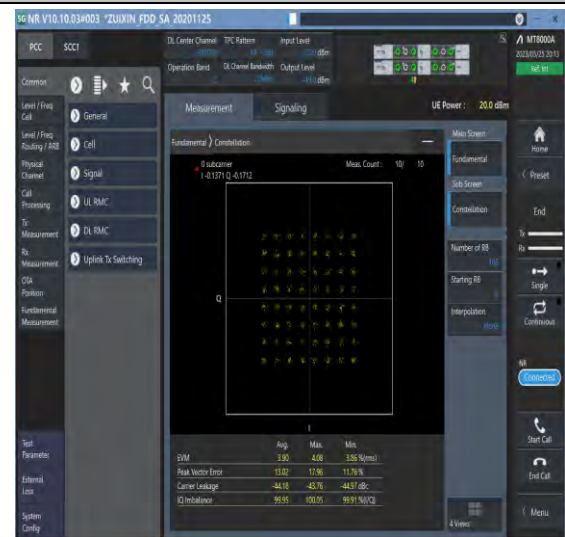
NTNV,N2,_PC3,_15,20,M,TID5



NTNV,N2,_PC3,_15,20,M,TID6



NTNV,N2,_PC3,_15,20,M,TID7

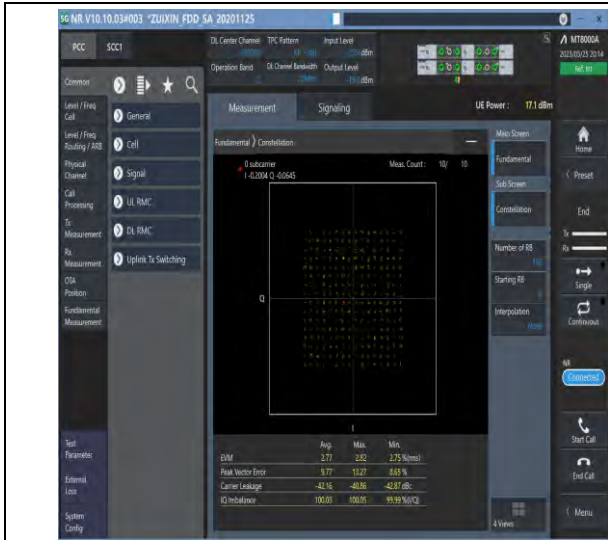


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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N2	15	5	DFT-QPSK	L	Outer_Full	4.473	4.780	PASS
N2	15	5	DFT-PI2BPSK	L	Outer_Full	4.476	4.890	PASS
N2	15	5	DFT-16QAM	L	Outer_Full	4.474	4.890	PASS
N2	15	5	DFT-64QAM	L	Outer_Full	4.457	4.820	PASS
N2	15	5	CP-QPSK	L	Outer_Full	4.472	4.920	PASS
N2	15	5	CP-16QAM	L	Outer_Full	4.497	4.900	PASS
N2	15	5	CP-64QAM	L	Outer_Full	4.478	4.860	PASS
N2	15	5	CP-256QAM	L	Outer_Full	4.473	4.940	PASS
N2	15	5	DFT-QPSK	M	Outer_Full	4.472	4.790	PASS
N2	15	5	DFT-PI2BPSK	M	Outer_Full	4.468	4.920	PASS
N2	15	5	DFT-16QAM	M	Outer_Full	4.479	4.880	PASS
N2	15	5	DFT-256QAM	M	Outer_Full	4.472	4.920	PASS
N2	15	5	CP-QPSK	M	Outer_Full	4.479	5.020	PASS
N2	15	5	CP-16QAM	M	Outer_Full	4.492	4.900	PASS
N2	15	5	CP-64QAM	M	Outer_Full	4.479	4.870	PASS
N2	15	5	CP-256QAM	M	Outer_Full	4.472	4.880	PASS
N2	15	5	DFT-QPSK	H	Outer_Full	4.475	4.850	PASS
N2	15	5	DFT-PI2BPSK	H	Outer_Full	4.472	4.910	PASS
N2	15	5	DFT-16QAM	H	Outer_Full	4.483	4.940	PASS
N2	15	5	DFT-64QAM	H	Outer_Full	4.480	4.840	PASS
N2	15	5	DFT-256QAM	H	Outer_Full	4.478	4.870	PASS
N2	15	5	CP-QPSK	H	Outer_Full	4.482	4.950	PASS
N2	15	5	CP-16QAM	H	Outer_Full	4.484	4.860	PASS
N2	15	5	CP-64QAM	H	Outer_Full	4.482	5.020	PASS
N2	15	5	CP-256QAM	H	Outer_Full	4.480	4.930	PASS
N2	15	10	DFT-QPSK	L	Outer_Full	8.941	9.460	PASS
N2	15	10	DFT-PI2BPSK	L	Outer_Full	8.917	9.360	PASS
N2	15	10	DFT-16QAM	L	Outer_Full	8.947	9.500	PASS
N2	15	10	DFT-64QAM	L	Outer_Full	8.938	9.560	PASS
N2	15	10	DFT-256QAM	L	Outer_Full	8.932	9.480	PASS



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Report No.: SEWM2305000166RG02

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N2	15	10	CP-QPSK	L	Outer_Full	9.307	9.920	PASS
N2	15	10	CP-16QAM	L	Outer_Full	9.265	9.900	PASS
N2	15	10	CP-64QAM	L	Outer_Full	9.298	9.960	PASS
N2	15	10	CP-256QAM	L	Outer_Full	9.289	10.020	PASS
N2	15	10	DFT-QPSK	M	Outer_Full	8.945	9.540	PASS
N2	15	10	DFT-PI2BPSK	M	Outer_Full	8.913	9.400	PASS
N2	15	10	DFT-16QAM	M	Outer_Full	8.951	9.600	PASS
N2	15	10	DFT-64QAM	M	Outer_Full	8.943	9.620	PASS
N2	15	10	DFT-256QAM	M	Outer_Full	8.958	9.460	PASS
N2	15	10	CP-QPSK	M	Outer_Full	9.293	9.960	PASS
N2	15	10	CP-16QAM	M	Outer_Full	9.271	9.920	PASS
N2	15	10	CP-64QAM	M	Outer_Full	9.277	9.800	PASS
N2	15	10	CP-256QAM	M	Outer_Full	9.294	9.680	PASS
N2	15	10	DFT-QPSK	H	Outer_Full	8.932	9.520	PASS
N2	15	10	DFT-PI2BPSK	H	Outer_Full	8.902	9.440	PASS
N2	15	10	DFT-16QAM	H	Outer_Full	8.933	9.580	PASS
N2	15	10	DFT-64QAM	H	Outer_Full	8.964	9.520	PASS
N2	15	10	DFT-256QAM	H	Outer_Full	8.935	9.620	PASS
N2	15	10	CP-QPSK	H	Outer_Full	9.289	9.980	PASS
N2	15	10	CP-16QAM	H	Outer_Full	9.283	9.720	PASS
N2	15	10	CP-64QAM	H	Outer_Full	9.294	9.880	PASS
N2	15	10	CP-256QAM	H	Outer_Full	9.293	9.940	PASS
N2	15	15	DFT-QPSK	L	Outer_Full	13.454	14.190	PASS
N2	15	15	DFT-PI2BPSK	L	Outer_Full	13.449	14.310	PASS
N2	15	15	DFT-16QAM	L	Outer_Full	13.435	14.160	PASS
N2	15	15	DFT-64QAM	L	Outer_Full	13.436	14.250	PASS
N2	15	15	DFT-256QAM	L	Outer_Full	13.424	14.160	PASS
N2	15	15	CP-QPSK	L	Outer_Full	14.116	14.940	PASS
N2	15	15	CP-16QAM	L	Outer_Full	14.147	15.000	PASS
N2	15	15	CP-64QAM	L	Outer_Full	14.174	14.970	PASS
N2	15	15	CP-256QAM	L	Outer_Full	14.113	14.910	PASS
N2	15	15	DFT-QPSK	M	Outer_Full	13.470	14.190	PASS
N2	15	15	DFT-PI2BPSK	M	Outer_Full	13.450	14.040	PASS
N2	15	15	DFT-16QAM	M	Outer_Full	13.440	14.220	PASS
N2	15	15	DFT-64QAM	M	Outer_Full	13.443	14.280	PASS
N2	15	15	DFT-256QAM	M	Outer_Full	13.449	14.130	PASS
N2	15	15	CP-QPSK	M	Outer_Full	14.120	14.880	PASS



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N2	15	15	CP-16QAM	M	Outer_Full	14.122	14.940	PASS
N2	15	15	CP-64QAM	M	Outer_Full	14.150	14.910	PASS
N2	15	15	CP-256QAM	M	Outer_Full	14.119	14.910	PASS
N2	15	15	DFT-QPSK	H	Outer_Full	13.421	14.220	PASS
N2	15	15	DFT-PI2BPSK	H	Outer_Full	13.418	14.250	PASS
N2	15	15	DFT-16QAM	H	Outer_Full	13.429	14.190	PASS
N2	15	15	DFT-64QAM	H	Outer_Full	13.414	14.160	PASS
N2	15	15	DFT-256QAM	H	Outer_Full	13.407	14.100	PASS
N2	15	15	CP-QPSK	H	Outer_Full	14.125	15.000	PASS
N2	15	15	CP-16QAM	H	Outer_Full	14.162	14.940	PASS
N2	15	15	CP-64QAM	H	Outer_Full	14.140	14.940	PASS
N2	15	15	CP-256QAM	H	Outer_Full	14.104	14.850	PASS
N2	15	20	DFT-QPSK	L	Outer_Full	17.853	18.600	PASS
N2	15	20	DFT-PI2BPSK	L	Outer_Full	17.887	18.760	PASS
N2	15	20	DFT-16QAM	L	Outer_Full	17.884	18.680	PASS
N2	15	20	DFT-64QAM	L	Outer_Full	17.871	18.760	PASS
N2	15	20	DFT-256QAM	L	Outer_Full	17.877	18.680	PASS
N2	15	20	CP-QPSK	L	Outer_Full	18.935	19.920	PASS
N2	15	20	CP-16QAM	L	Outer_Full	18.914	19.880	PASS
N2	15	20	CP-64QAM	L	Outer_Full	18.968	19.840	PASS
N2	15	20	CP-256QAM	L	Outer_Full	18.886	19.880	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	17.871	18.720	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	17.912	18.680	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	17.885	18.760	PASS
N2	15	20	DFT-64QAM	M	Outer_Full	17.935	18.680	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	17.877	18.680	PASS
N2	15	20	CP-QPSK	M	Outer_Full	18.926	19.840	PASS
N2	15	20	CP-16QAM	M	Outer_Full	18.937	19.720	PASS
N2	15	20	CP-64QAM	M	Outer_Full	18.932	19.880	PASS
N2	15	20	CP-256QAM	M	Outer_Full	19.012	19.800	PASS
N2	15	20	DFT-QPSK	H	Outer_Full	17.852	18.640	PASS
N2	15	20	DFT-PI2BPSK	H	Outer_Full	17.814	18.760	PASS
N2	15	20	DFT-16QAM	H	Outer_Full	17.867	18.720	PASS
N2	15	20	DFT-64QAM	H	Outer_Full	17.858	18.760	PASS
N2	15	20	DFT-256QAM	H	Outer_Full	17.861	18.640	PASS
N2	15	20	CP-QPSK	H	Outer_Full	18.953	20.240	PASS
N2	15	20	CP-16QAM	H	Outer_Full	18.940	19.880	PASS



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N2	15	20	CP-64QAM	H	Outer_Full	18.911	21.560	PASS
N2	15	20	CP-256QAM	H	Outer_Full	18.929	19.720	PASS



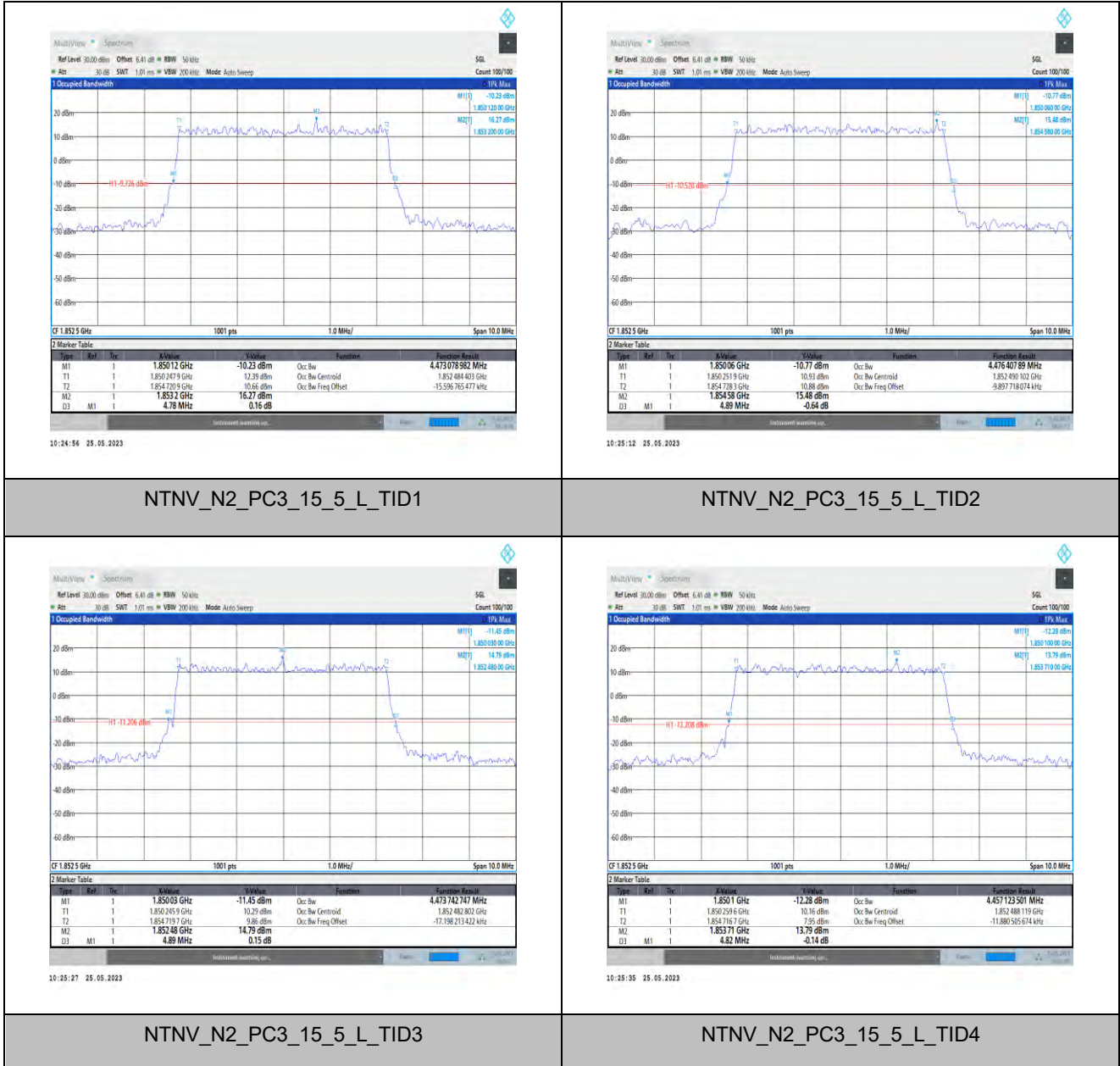
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Test Graphs



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NTNV_N2_PC3_15_5_L_TID6



NTNV_N2_PC3_15_5_L_TID7



NTNV_N2_PC3_15_5_L_TID8

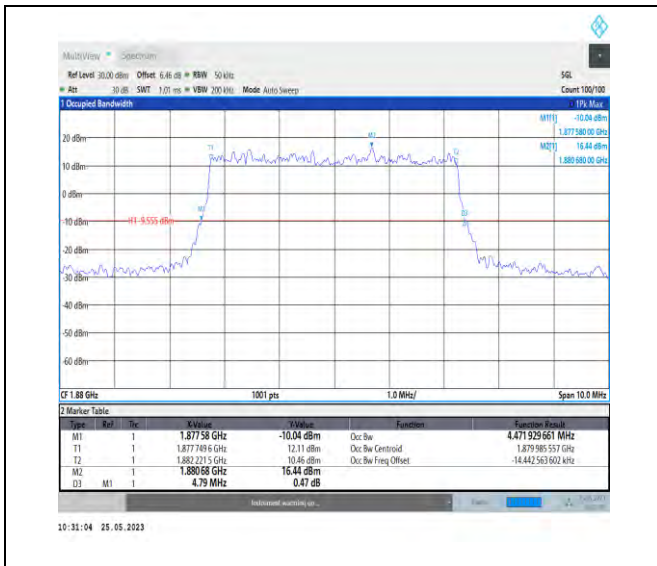


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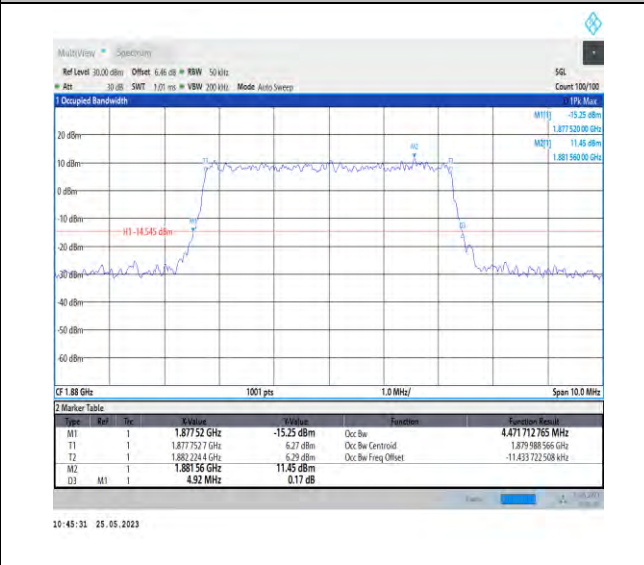
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NTNV_N2_PC3_15_5_M_TID2



NTNV_N2_PC3_15_5_M_TID3



NTNV_N2_PC3_15_5_M_TID5



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NTNV_N2_PC3_15_5_M_TID6



NTNV_N2_PC3_15_5_M_TID7



NTNV_N2_PC3_15_5_M_TID8



NTNV_N2_PC3_15_5_M_TID9

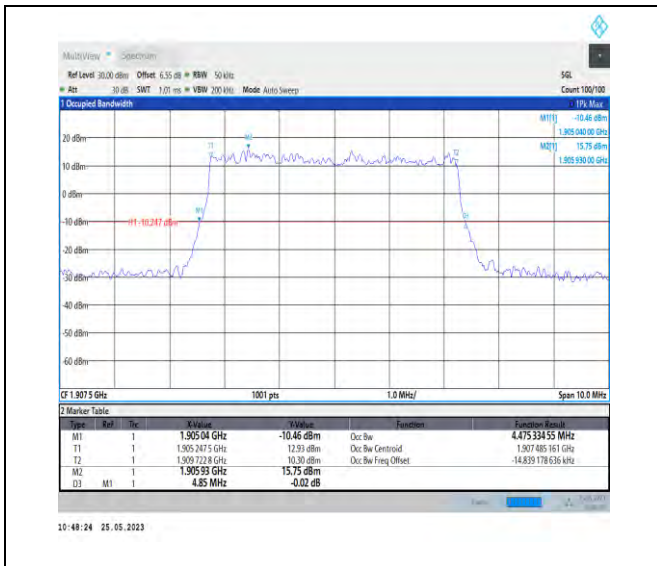


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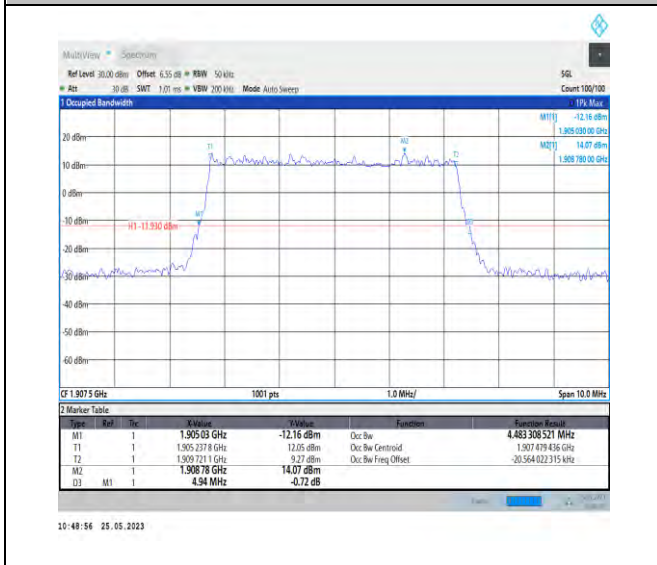
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NTNV_N2_PC3_15_5_H_TID1



NTNV_N2_PC3_15_5_H_TID2



NTNV_N2_PC3_15_5_H_TID3



NTNV_N2_PC3_15_5_H_TID4



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NTNV_N2_PC3_15_5_H_TID6



NTNV_N2_PC3_15_5_H_TID7



NTNV_N2_PC3_15_5_H_TID8

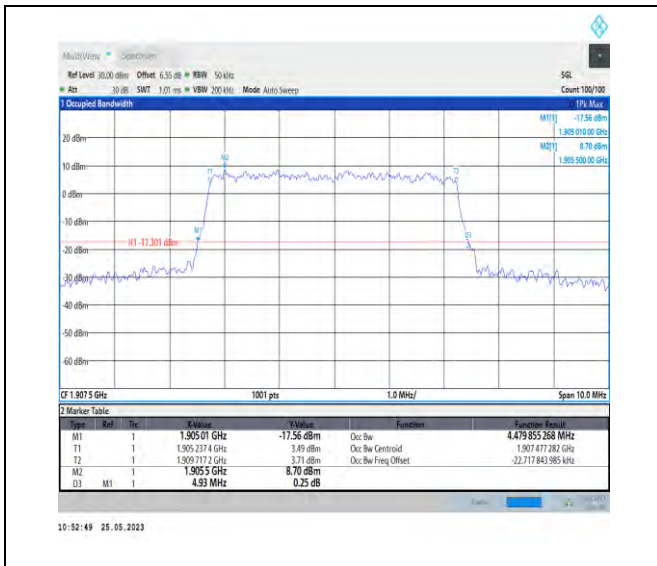


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NTNV_N2_PC3_15_10_L_TID1



NTNV_N2_PC3_15_10_L_TID2



NTNV_N2_PC3_15_10_L_TID3

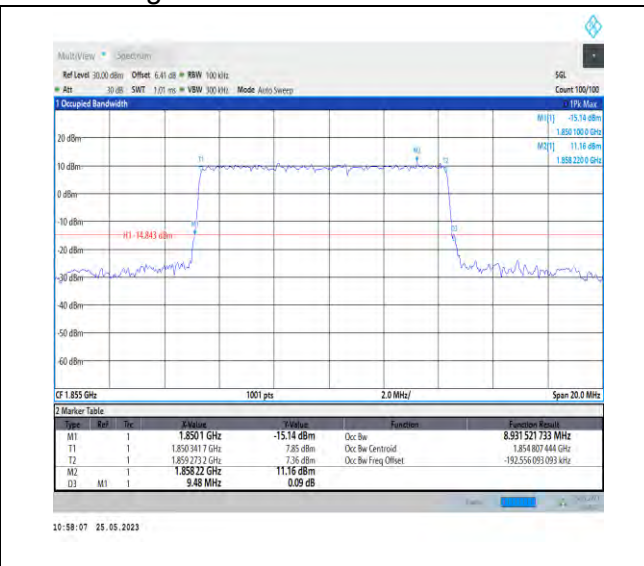


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NTVN_N2_PC3_15_10_L_TID4



NTVN_N2_PC3_15_10_L_TID5



NTVN_N2_PC3_15_10_L_TID6



NTVN_N2_PC3_15_10_L_TID7



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NTVN_N2_PC3_15_10_L_TID8



NTVN_N2_PC3_15_10_L_TID9



NTVN_N2_PC3_15_10_M_TID1



NTVN_N2_PC3_15_10_M_TID2



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NTVN_N2_PC3_15_10_M_TID4



NTVN_N2_PC3_15_10_M_TID5



NTVN_N2_PC3_15_10_M_TID6

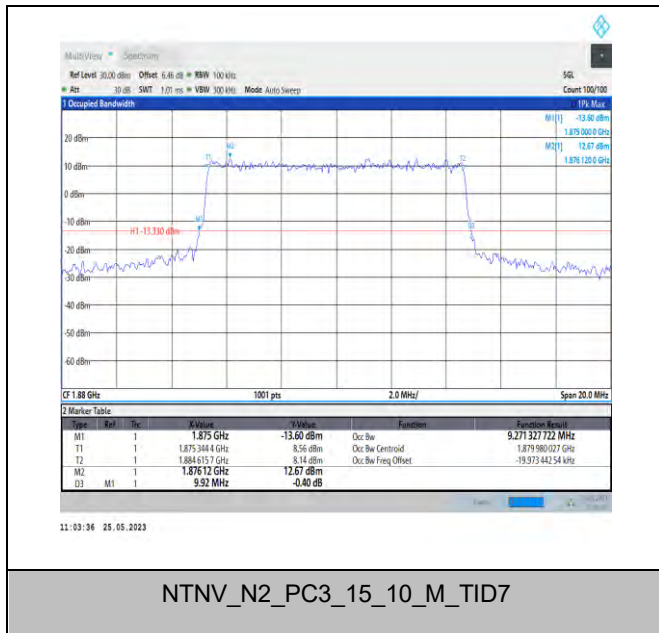


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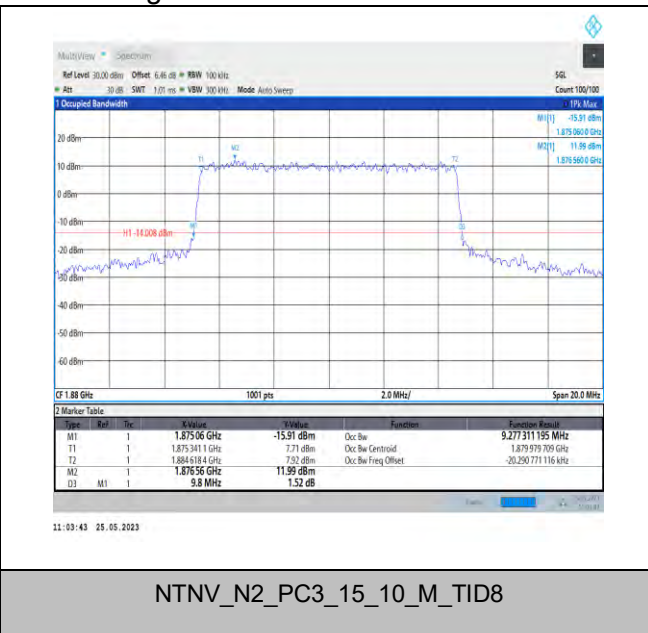
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NTVN_N2_PC3_15_10_H_TID2



NTVN_N2_PC3_15_10_H_TID3



NTVN_N2_PC3_15_10_H_TID4



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NTVN_N2_PC3_15_10_H_TID6



NTVN_N2_PC3_15_10_H_TID7



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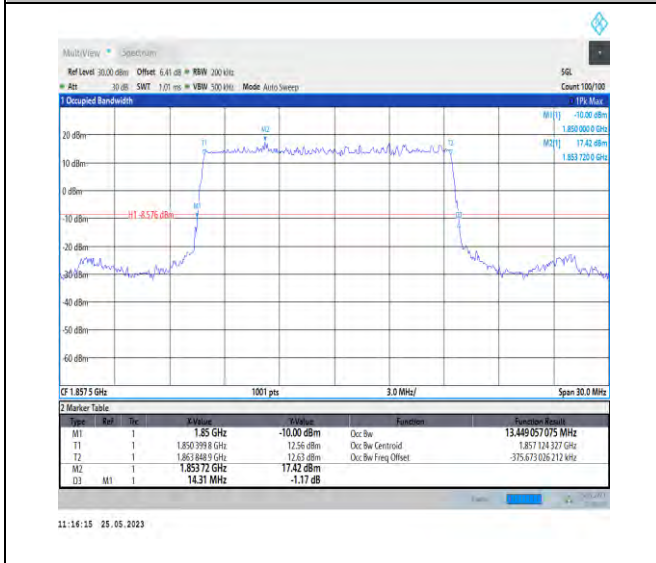
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NTVN_N2_PC3_15_15_L_TID1



NTVN_N2_PC3_15_15_L_TID2



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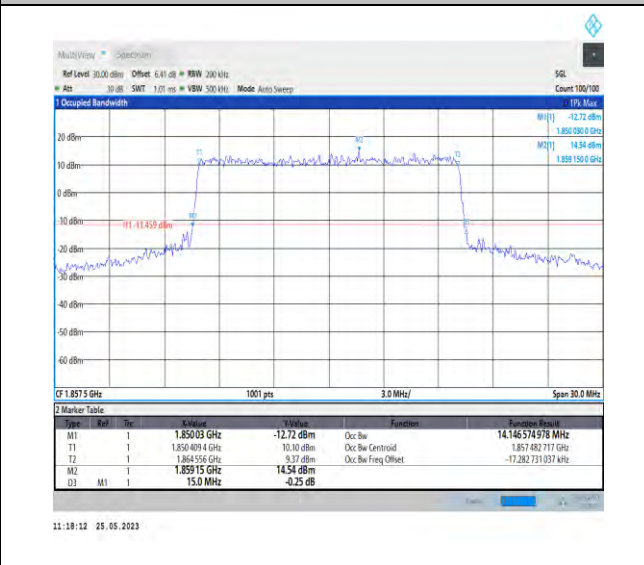
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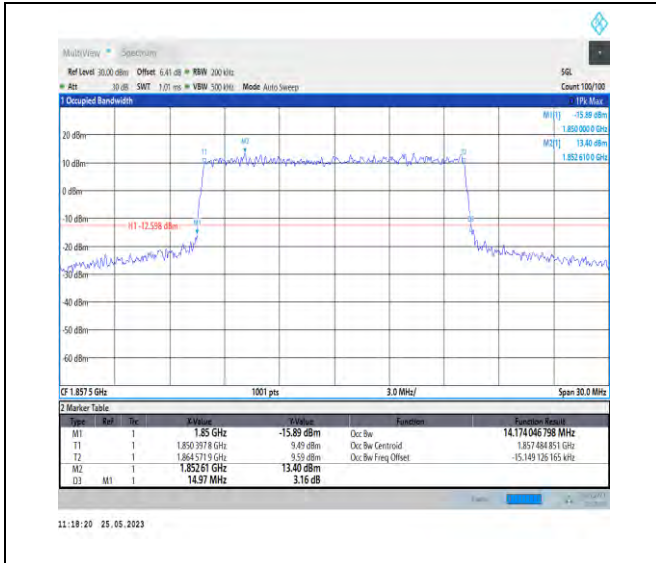


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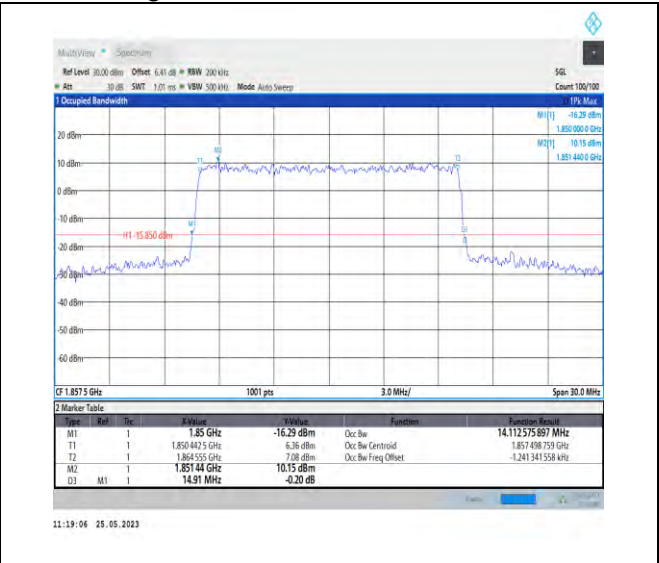


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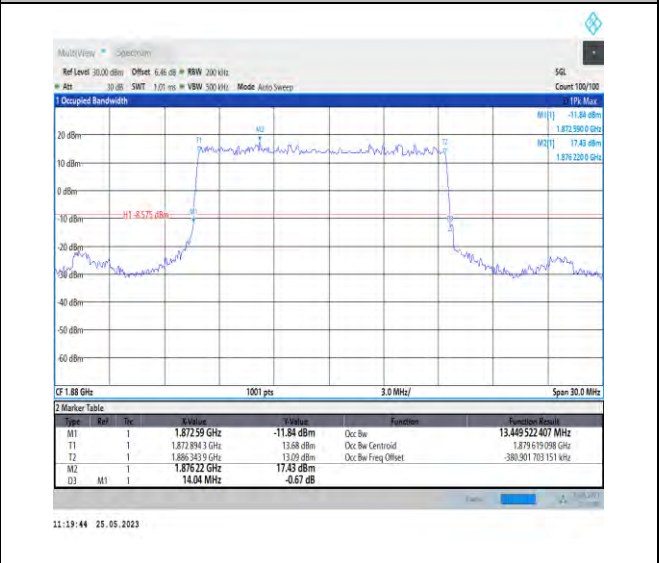
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NTVN_N2_PC3_15_15_L_TID9



NTVN_N2_PC3_15_15_M_TID1



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NTVN_N2_PC3_15_15_M_TID4



NTVN_N2_PC3_15_15_M_TID5



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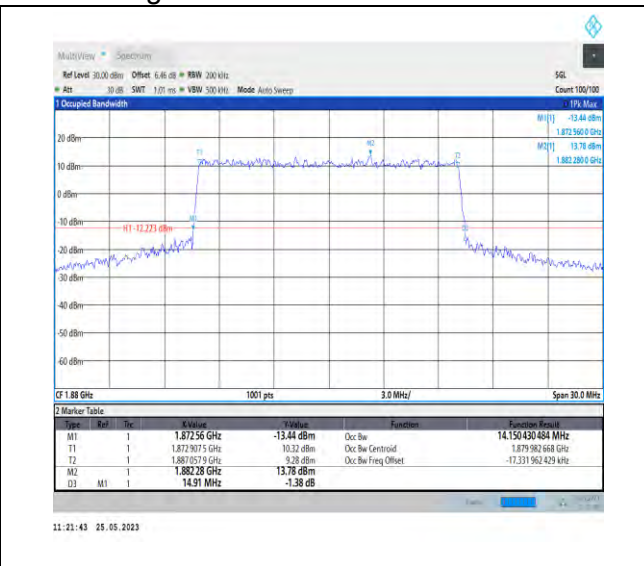
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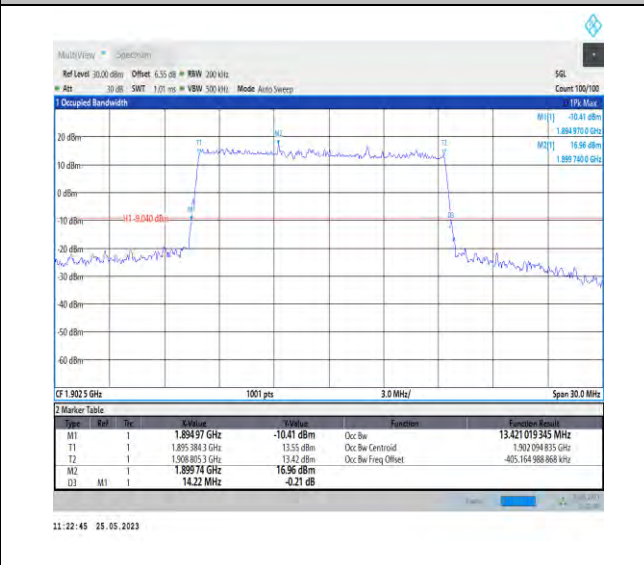
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NTVN_N2_PC3_15_15_M_TID8



NTVN_N2_PC3_15_15_M_TID9

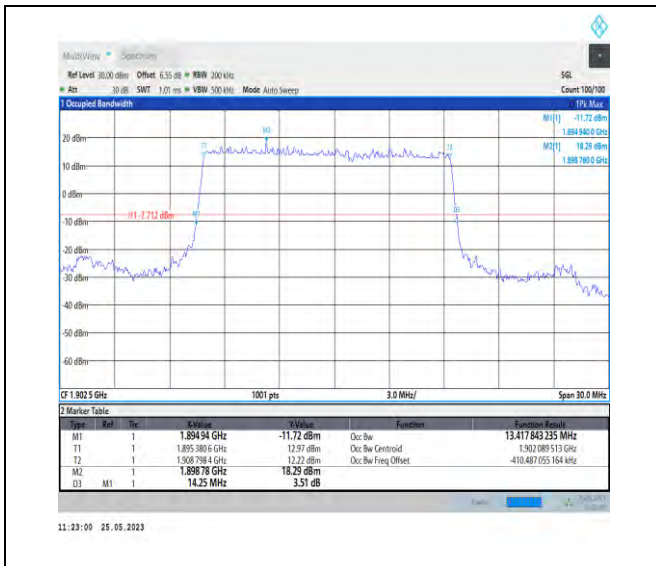


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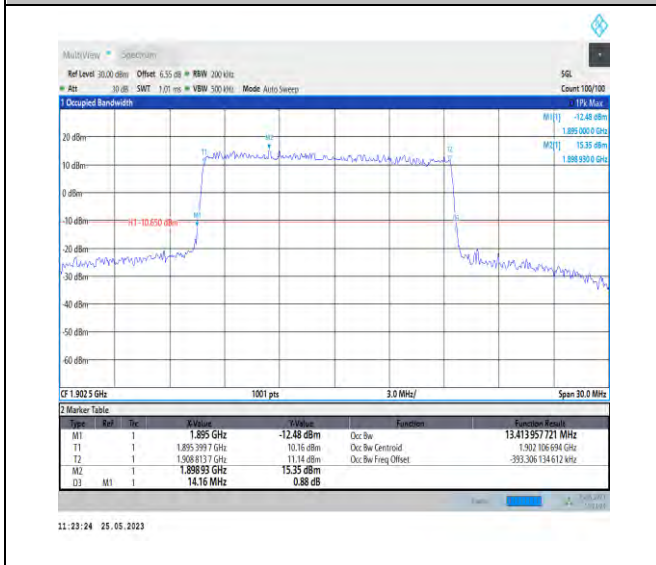
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NTVN_N2_PC3_15_15_H_TID5

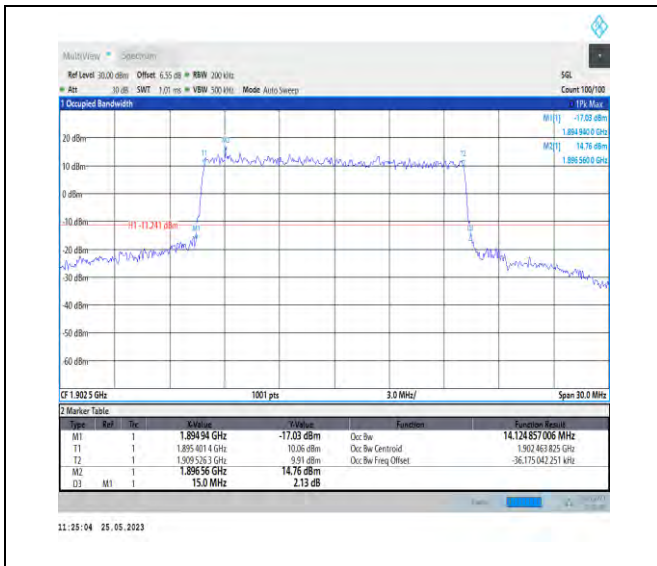


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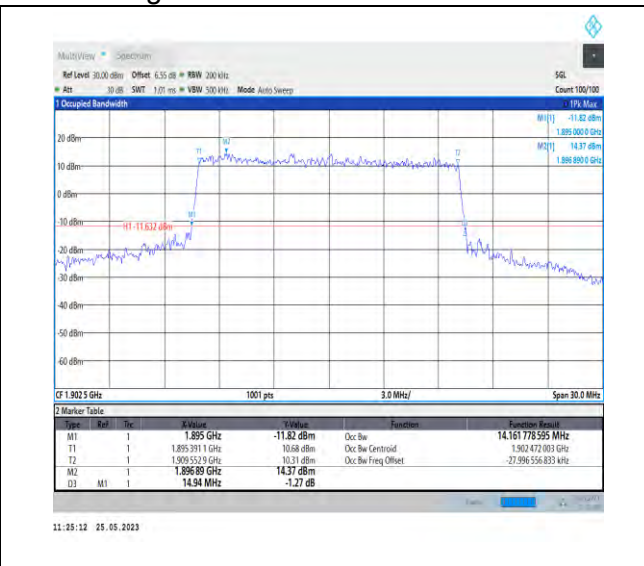
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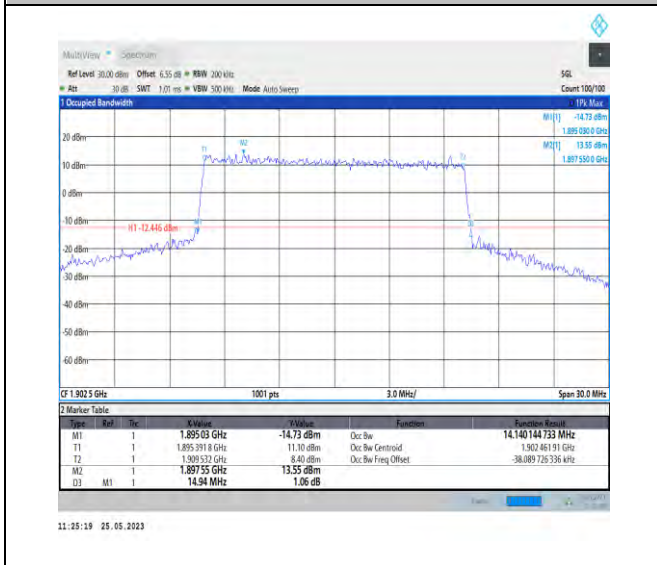
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NTVN_N2_PC3_15_15_H_TID6



NTVN_N2_PC3_15_15_H_TID7



NTVN_N2_PC3_15_15_H_TID8

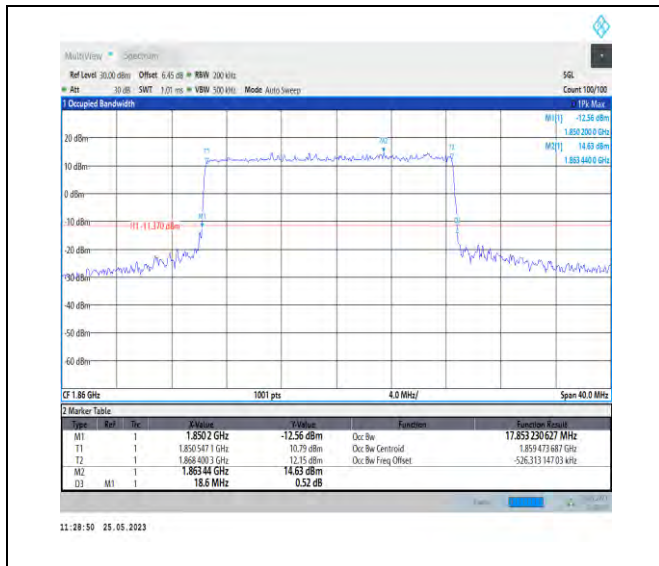


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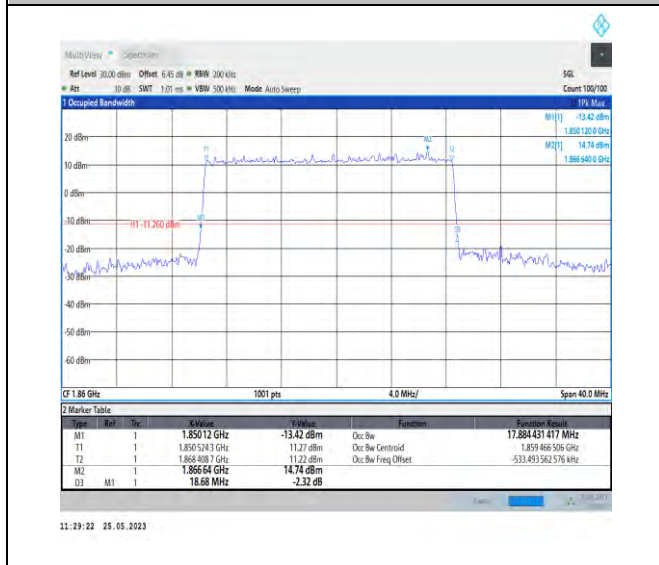
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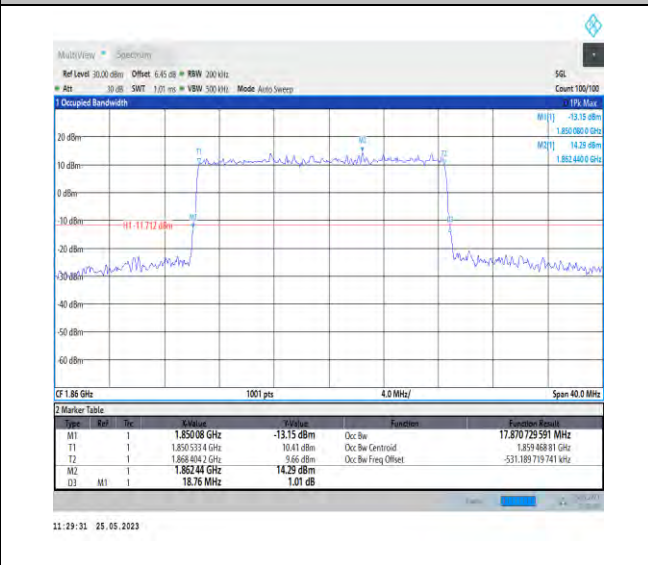
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NTVN_N2_PC3_15_20_L_TID4



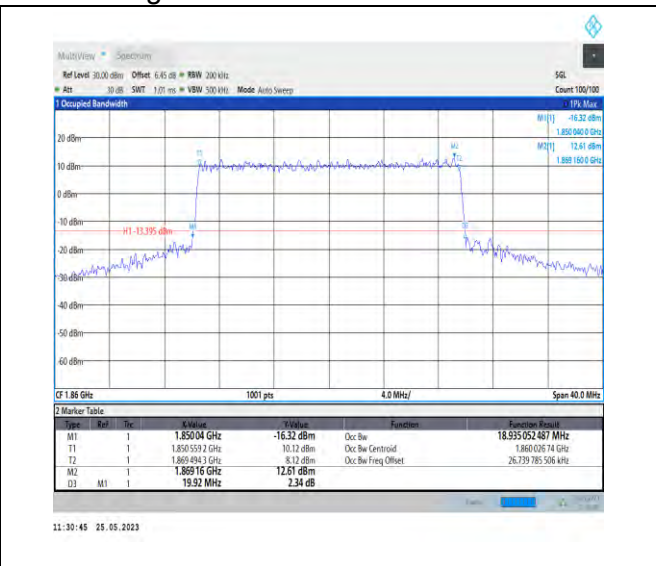
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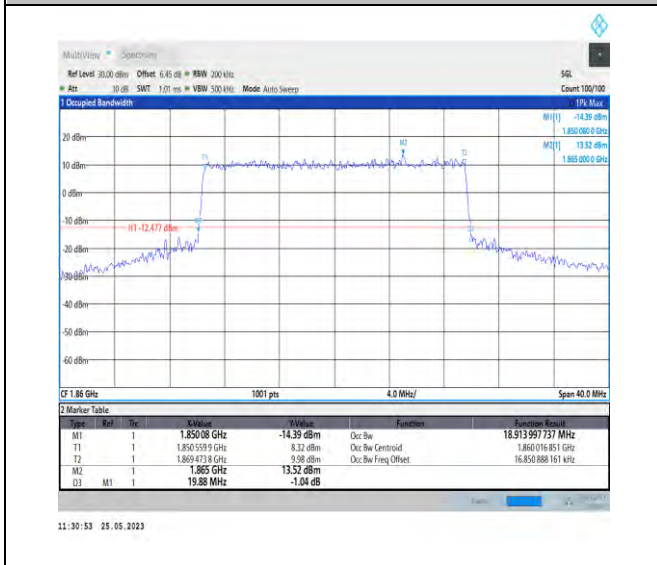
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NTVN_N2_PC3_15_20_L_TID5



NTVN_N2_PC3_15_20_L_TID6



NTVN_N2_PC3_15_20_L_TID7



NTVN_N2_PC3_15_20_L_TID8



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NTVN_N2_PC3_15_20_L_TID9



NTVN_N2_PC3_15_20_M_TID1



NTVN_N2_PC3_15_20_M_TID2



NTVN_N2_PC3_15_20_M_TID3



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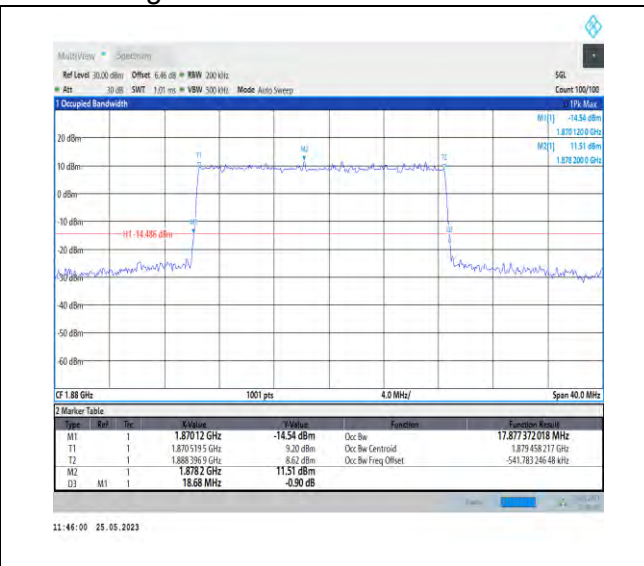
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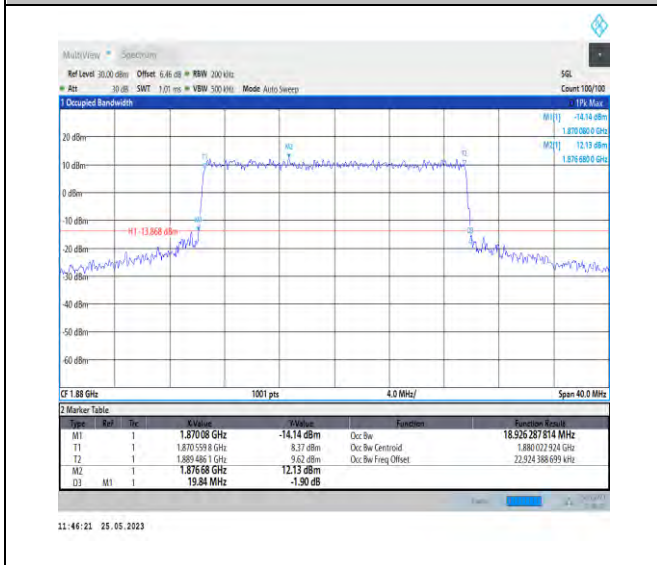
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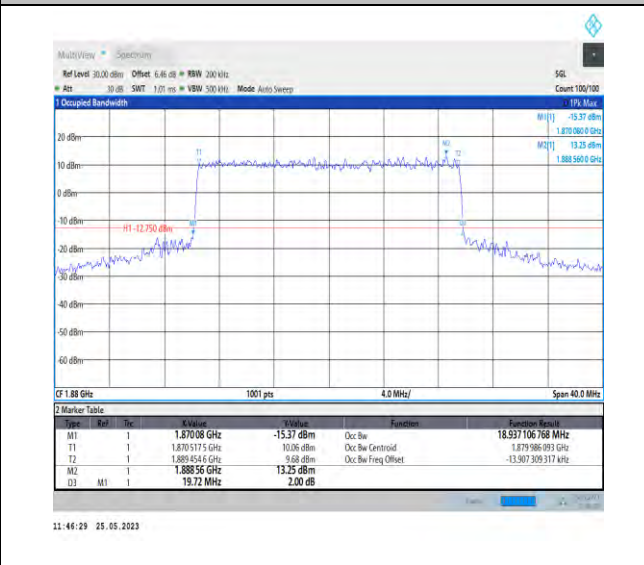
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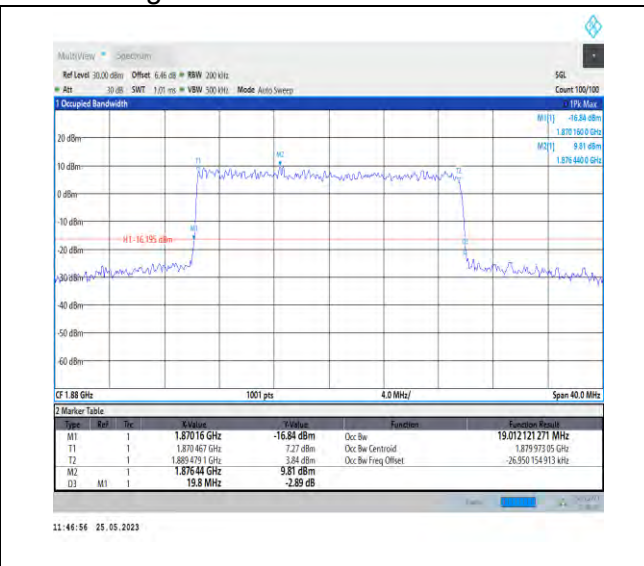


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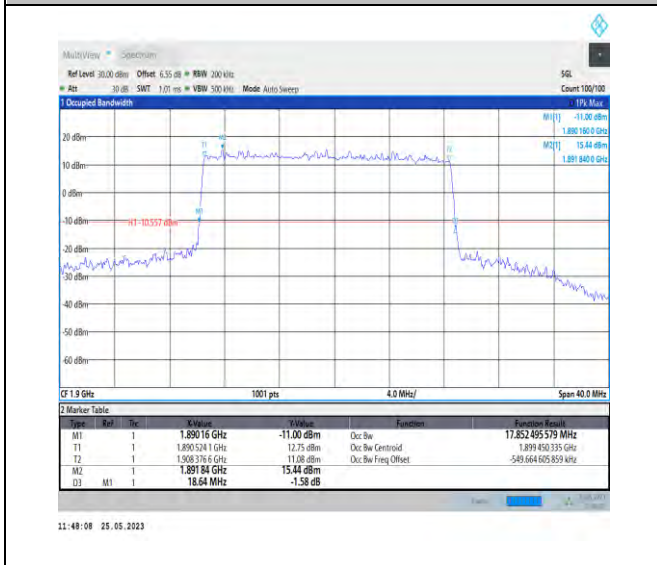
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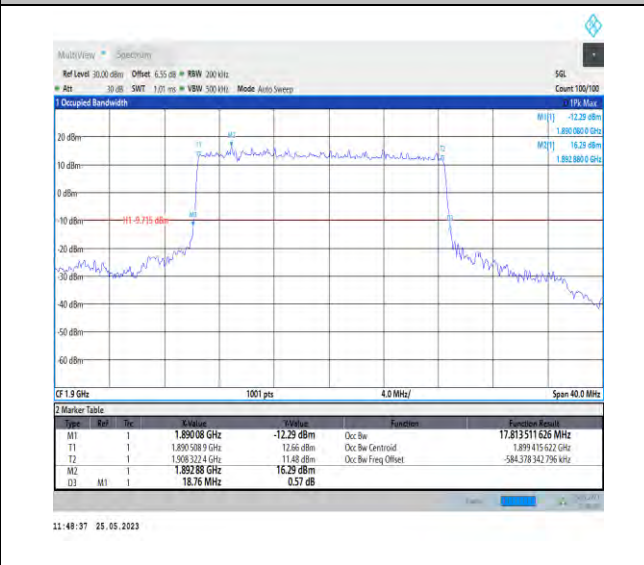
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NTVN_N2_PC3_15_20_M_TID9



NTVN_N2_PC3_15_20_H_TID1



NTVN_N2_PC3_15_20_H_TID2



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NTVN_N2_PC3_15_20_H_TID4



NTVN_N2_PC3_15_20_H_TID5



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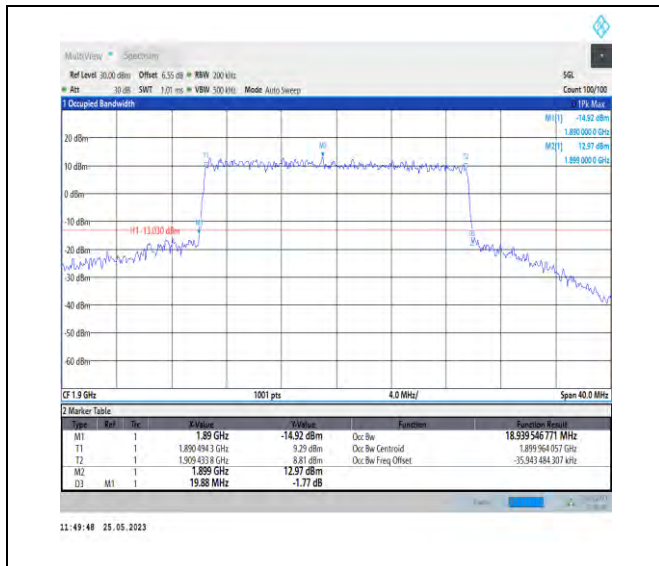


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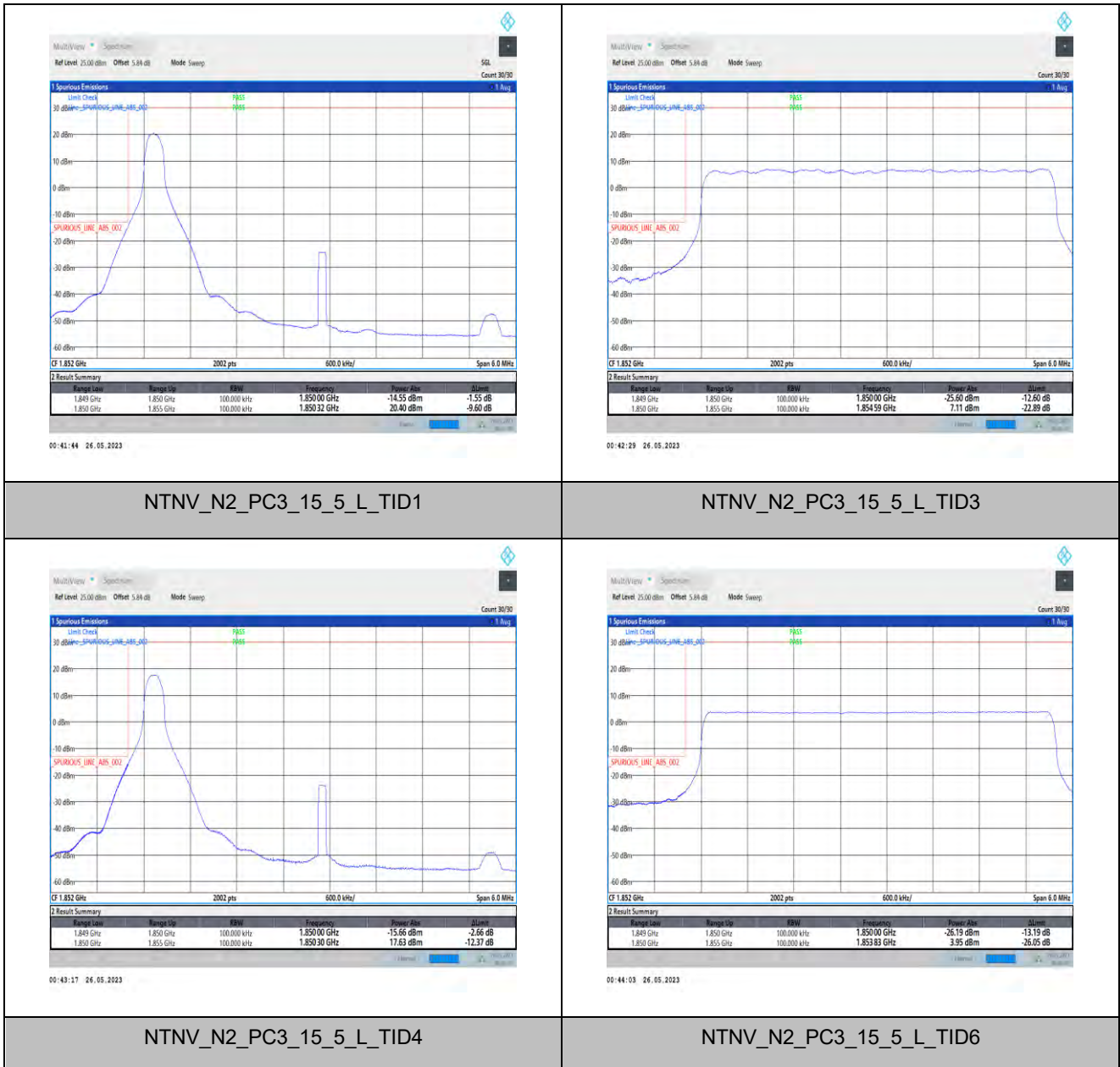


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Test Graphs

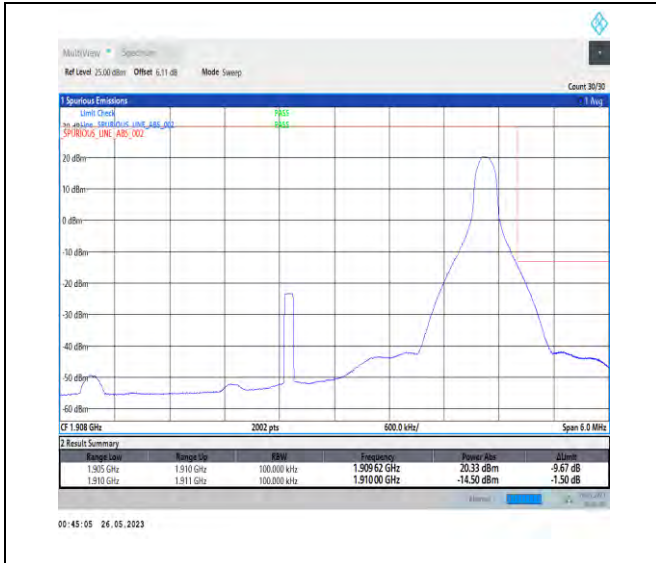


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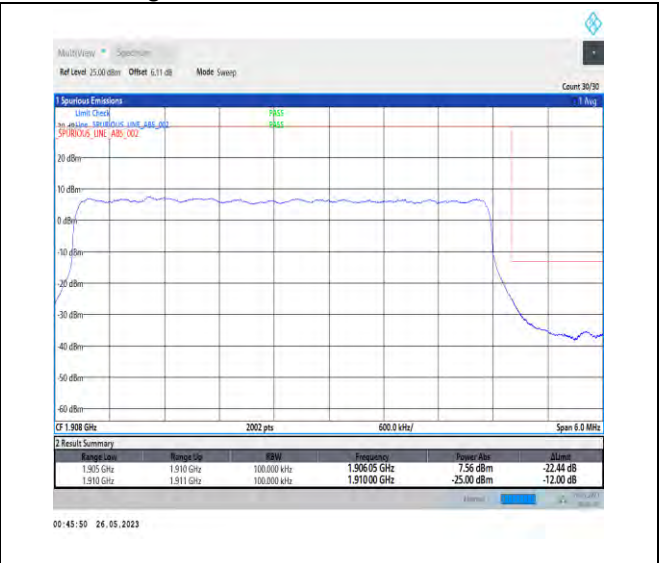
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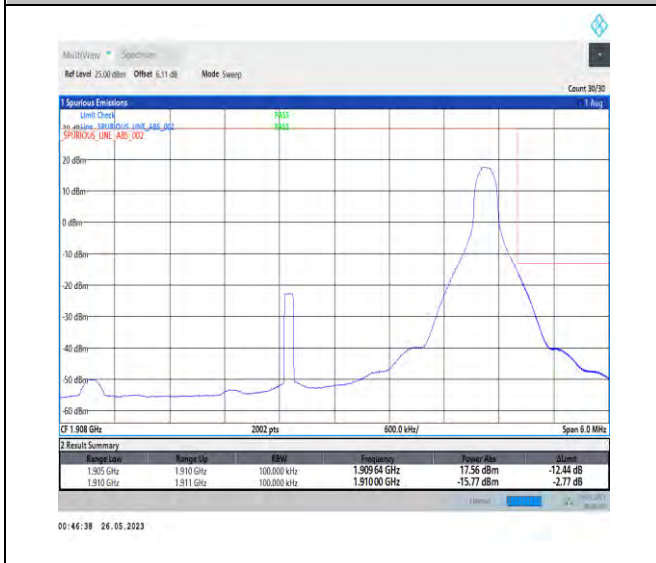
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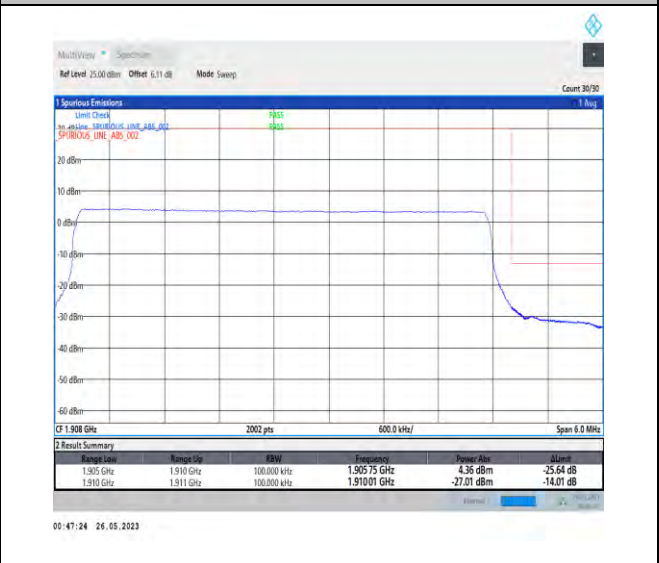
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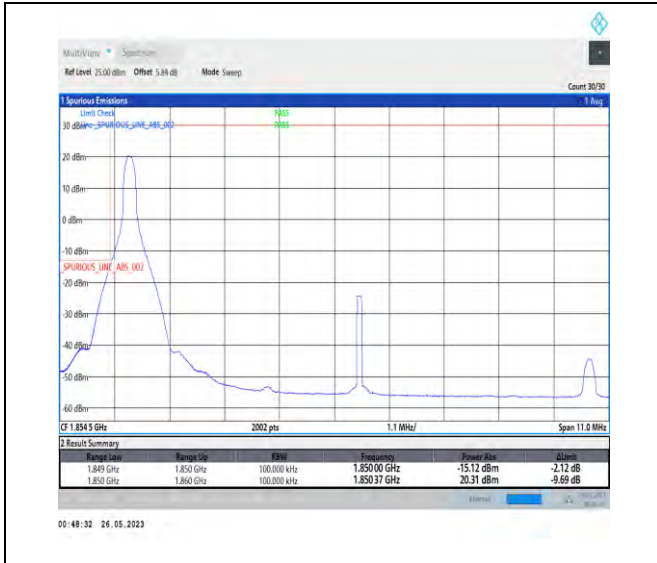


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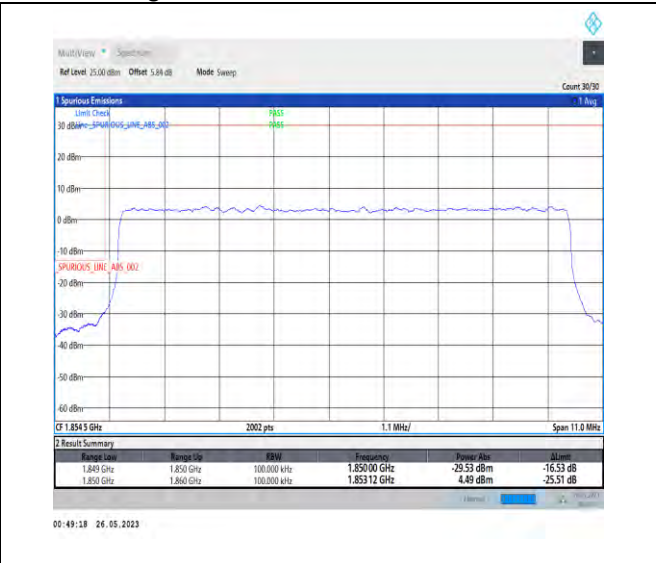
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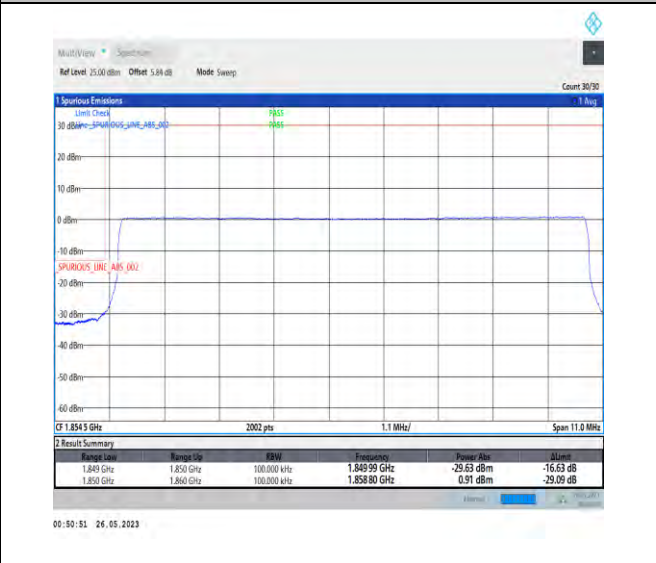
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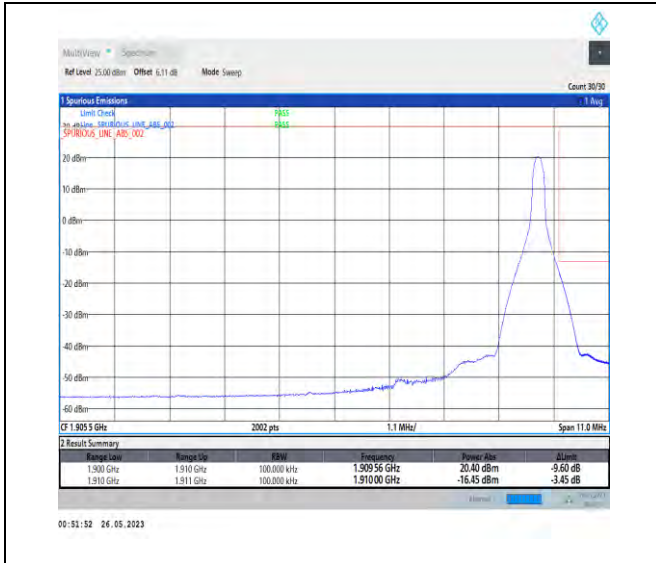


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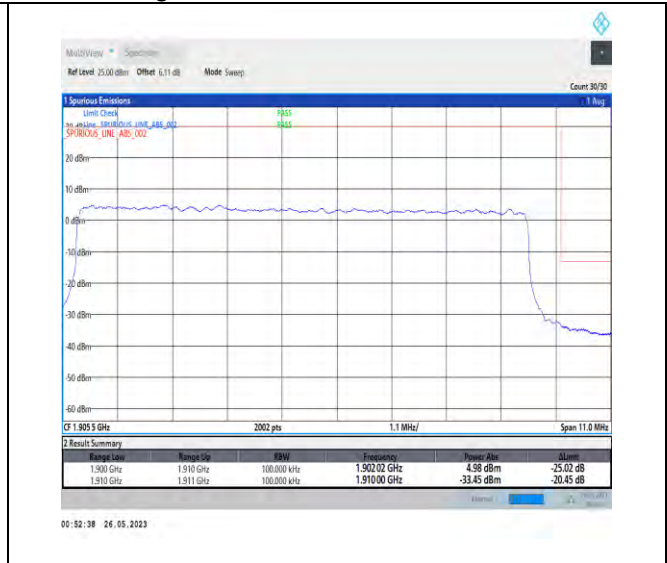
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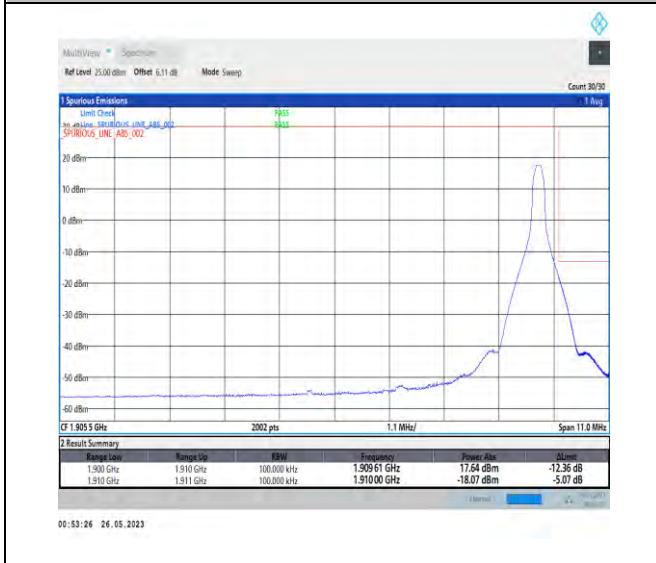
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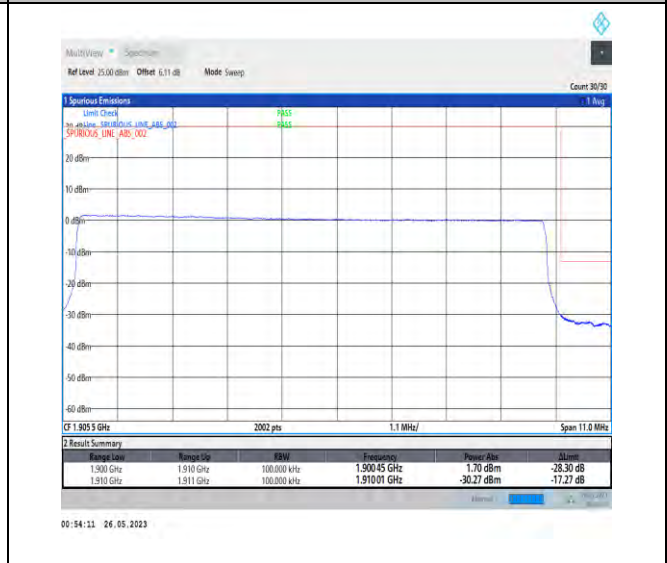
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NTNV_N2_PC3_15_10_H_TID6

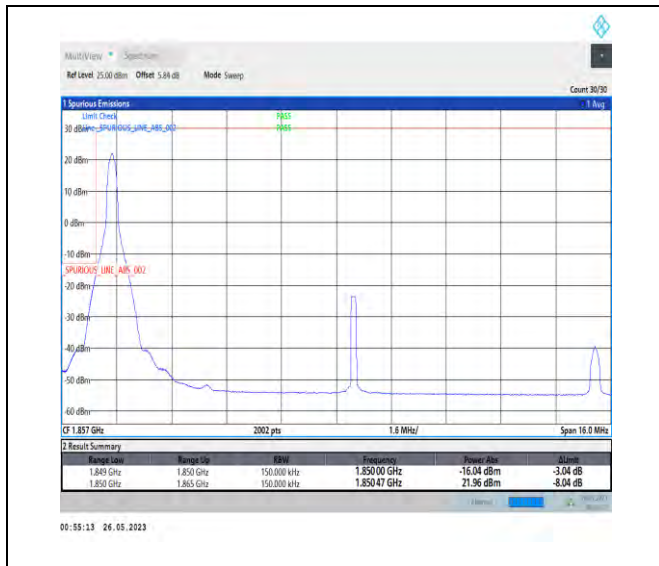


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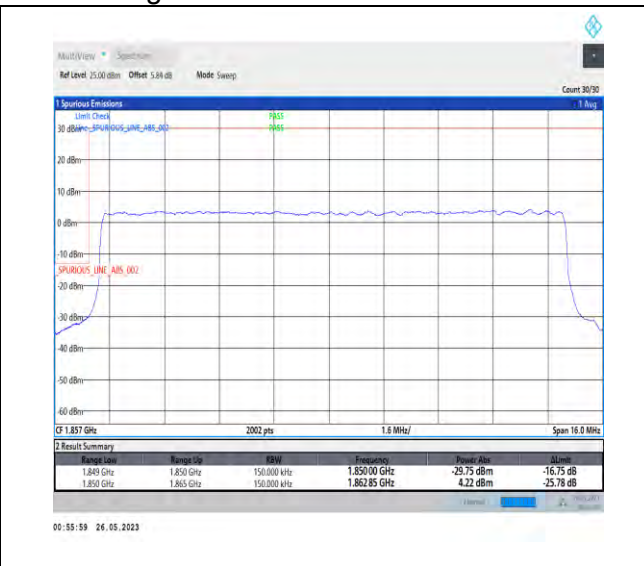
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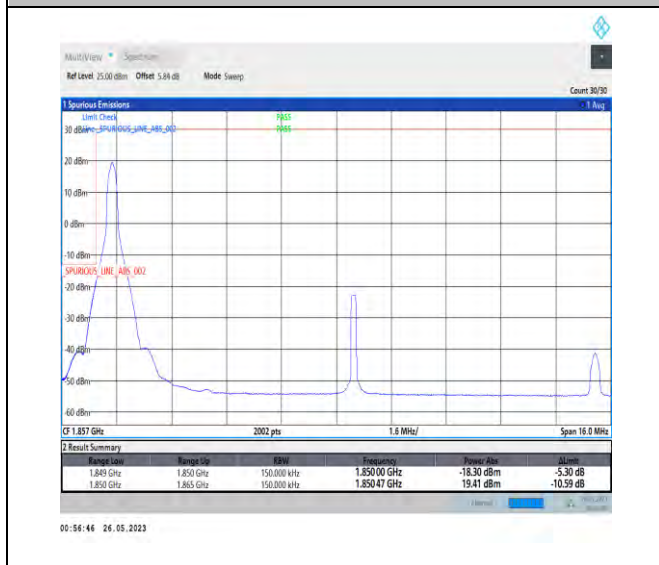
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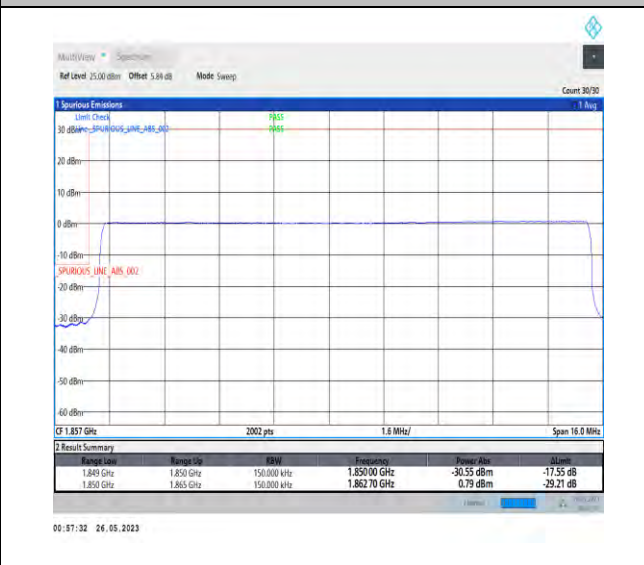
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NTNV_N2_PC3_15_15_L_TID4



NTNV_N2_PC3_15_15_L_TID6



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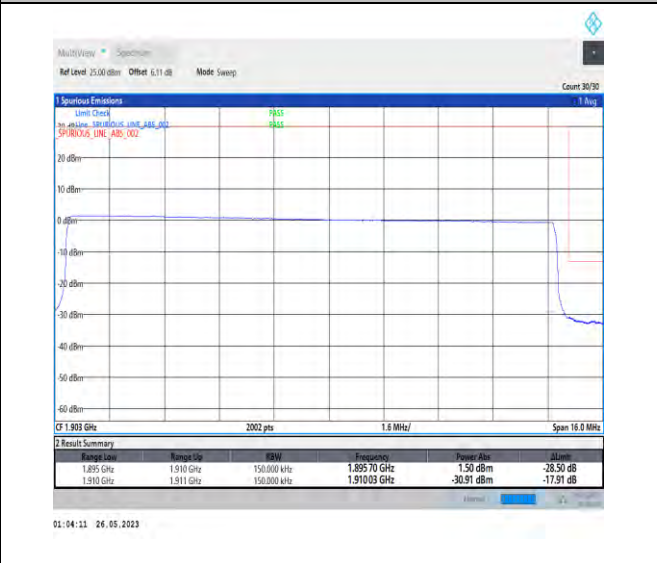
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NTNV_N2_PC3_15_15_H_TID3



NTNV_N2_PC3_15_15_H_TID5



NTNV_N2_PC3_15_15_H_TID6

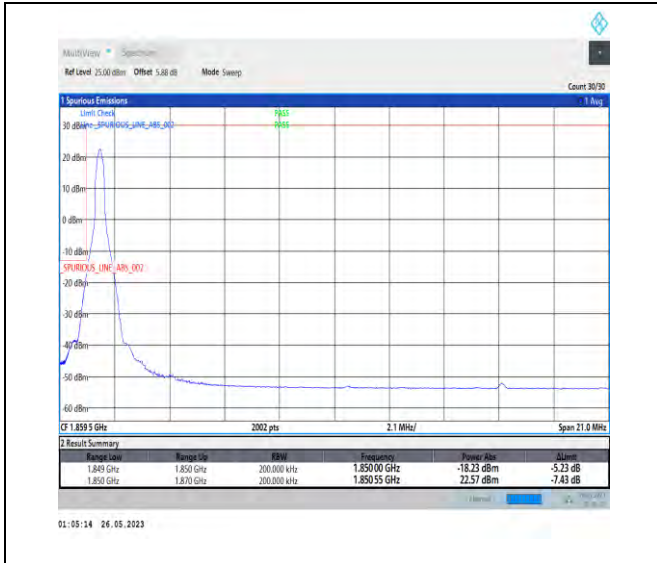


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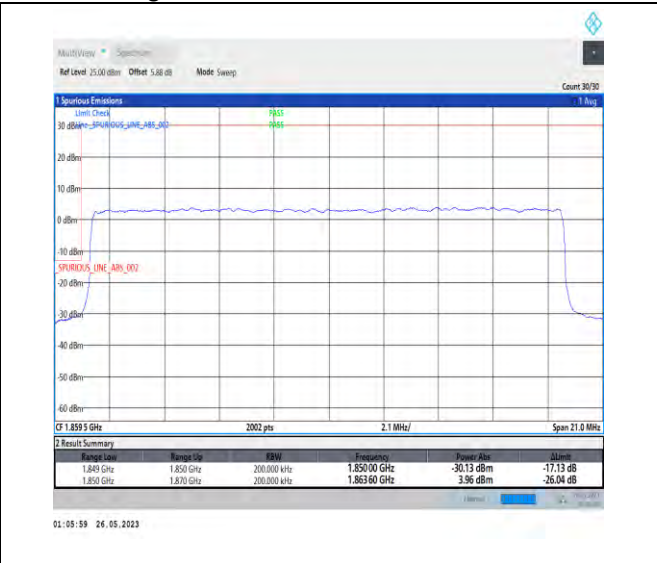
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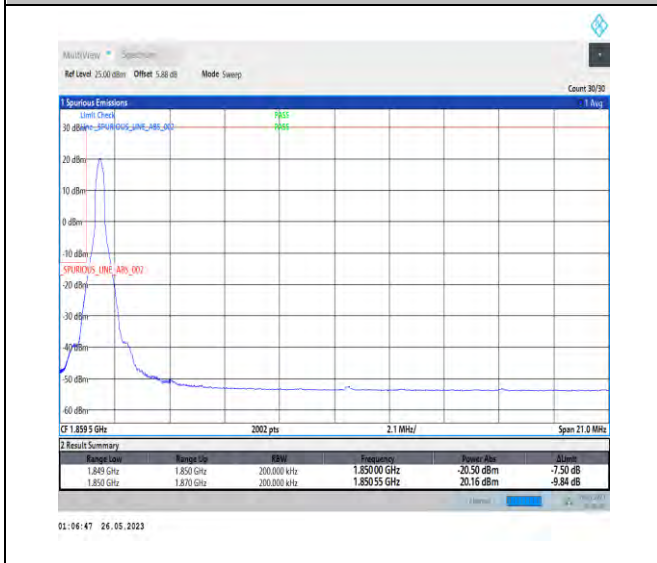
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NTVN_N2_PC3_15_20_L_TID3



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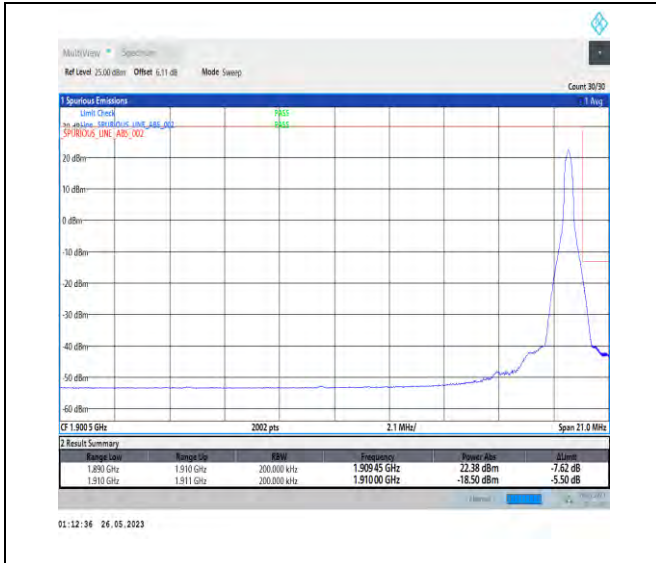


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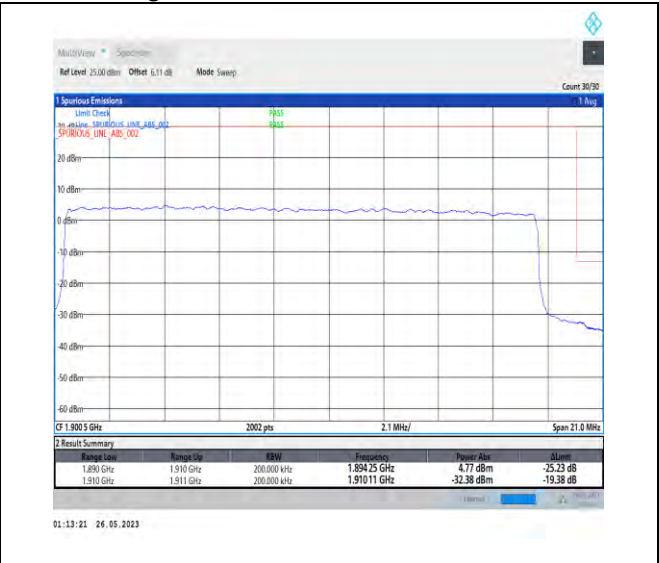
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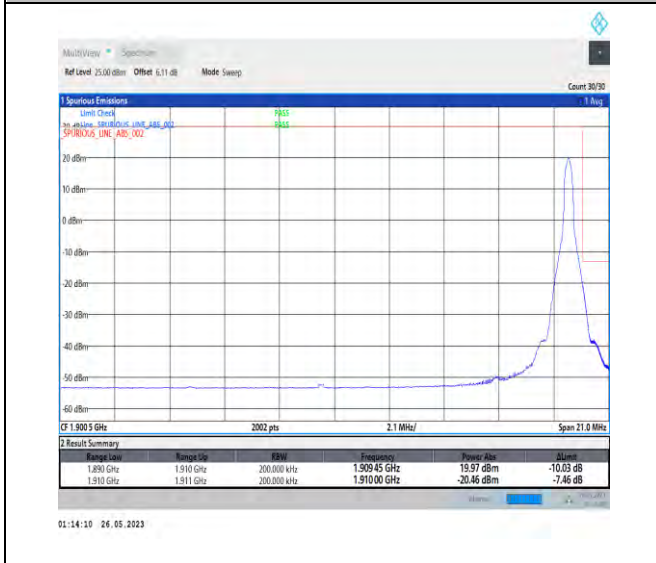
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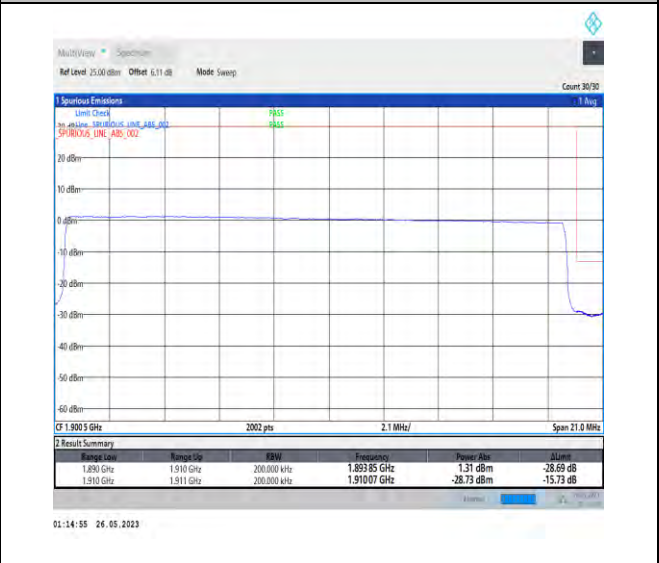
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NTNV_N2_PC3_15_20_H_TID3



NTNV_N2_PC3_15_20_H_TID5



NTNV_N2_PC3_15_20_H_TID6



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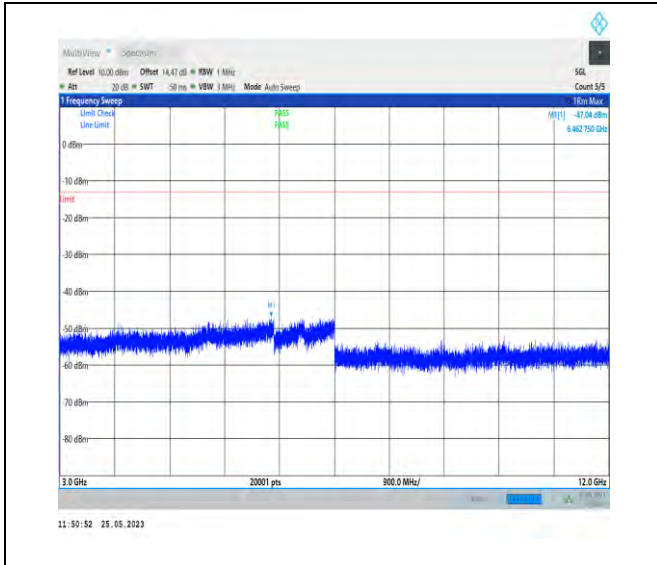
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Test Graphs

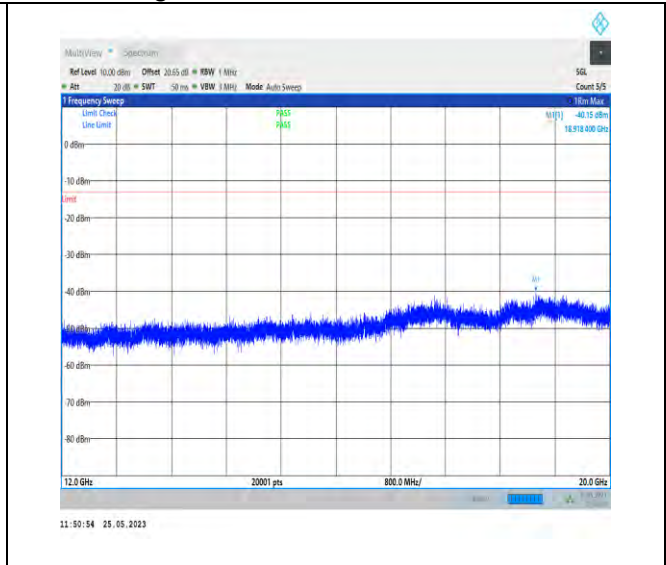


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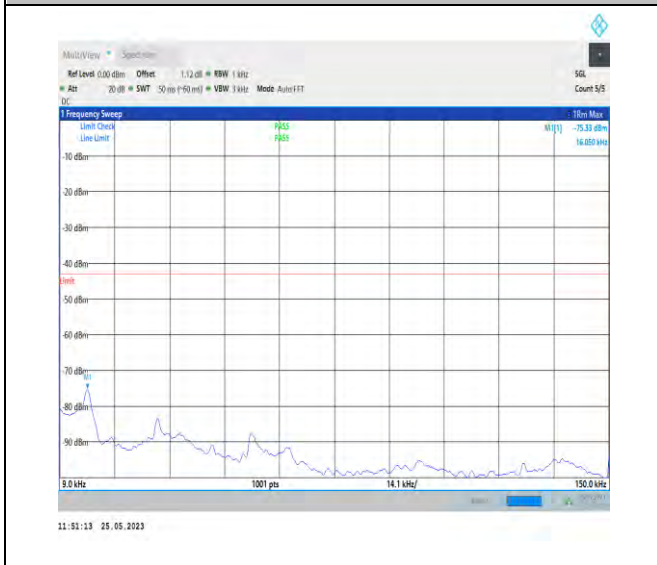
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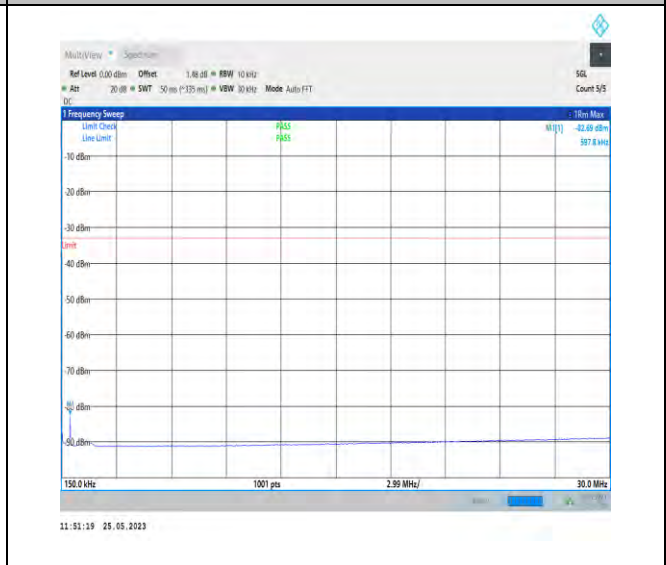
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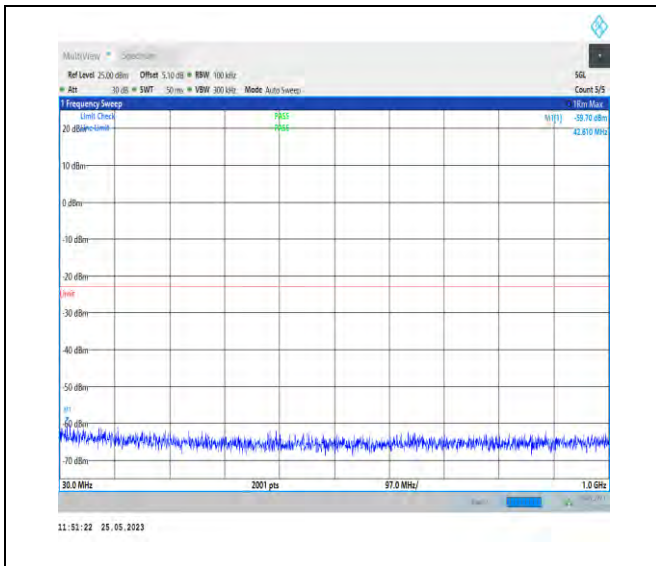
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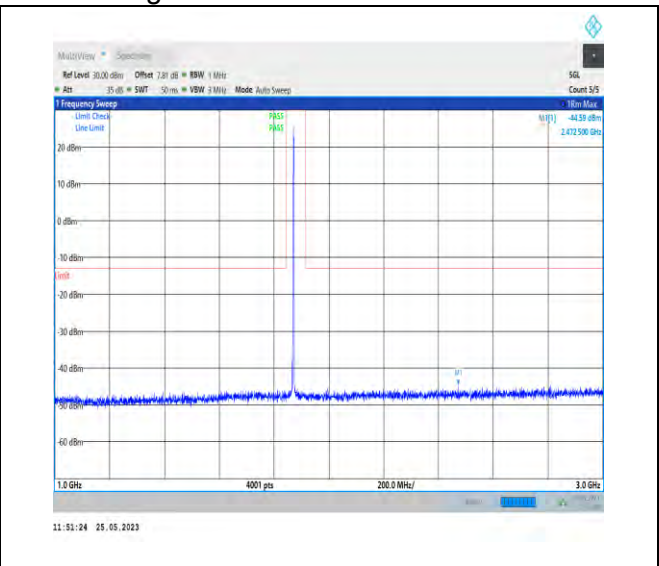
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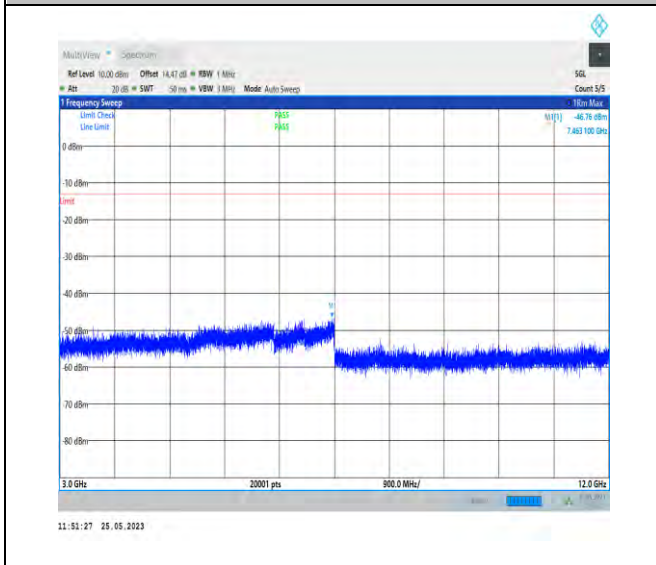
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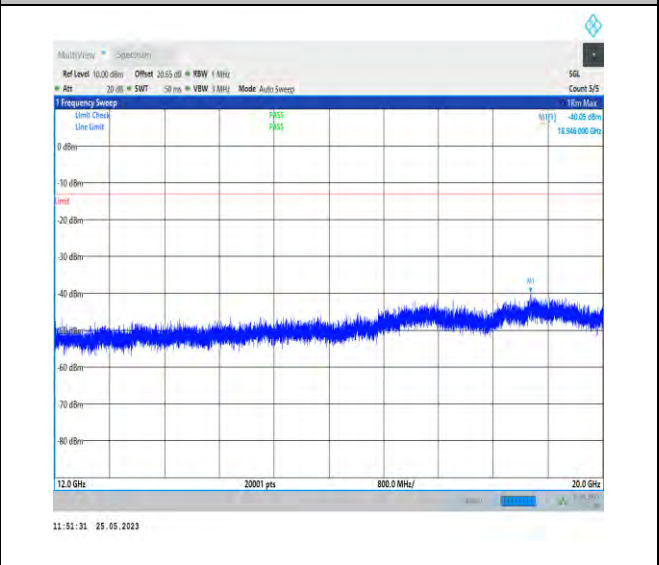
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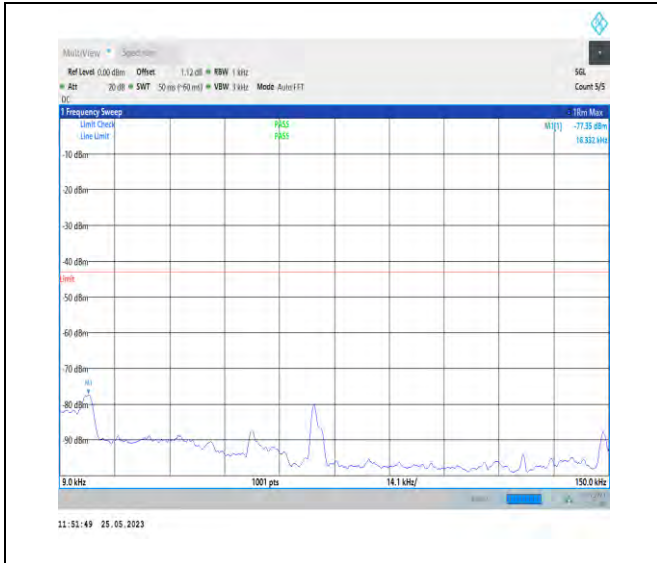
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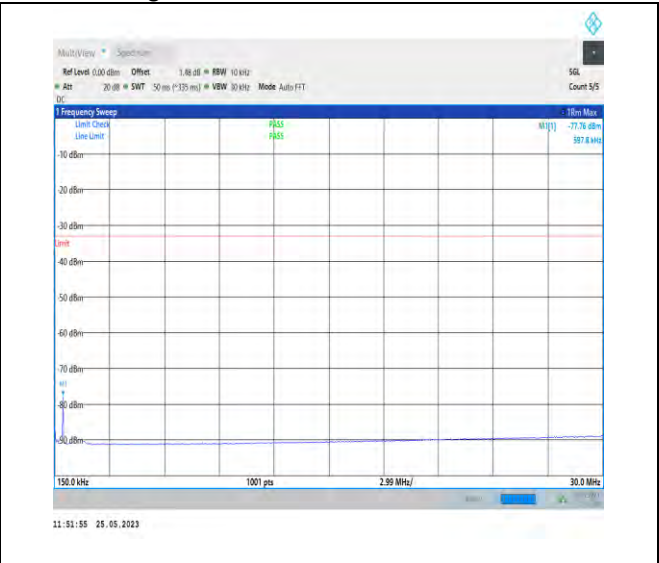
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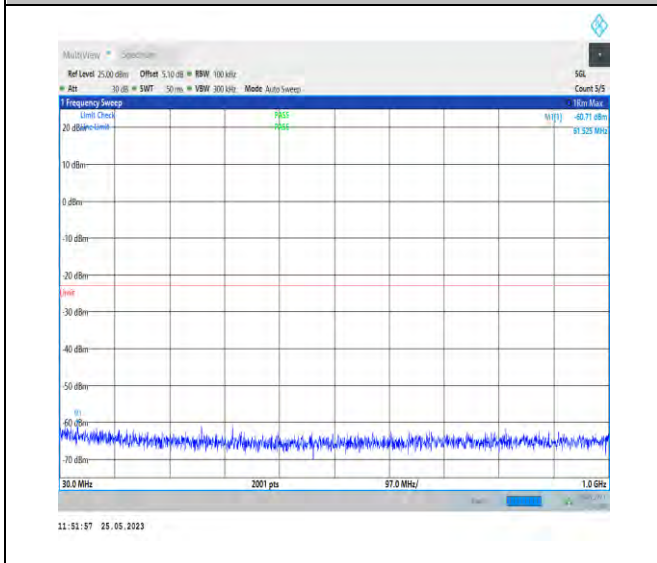
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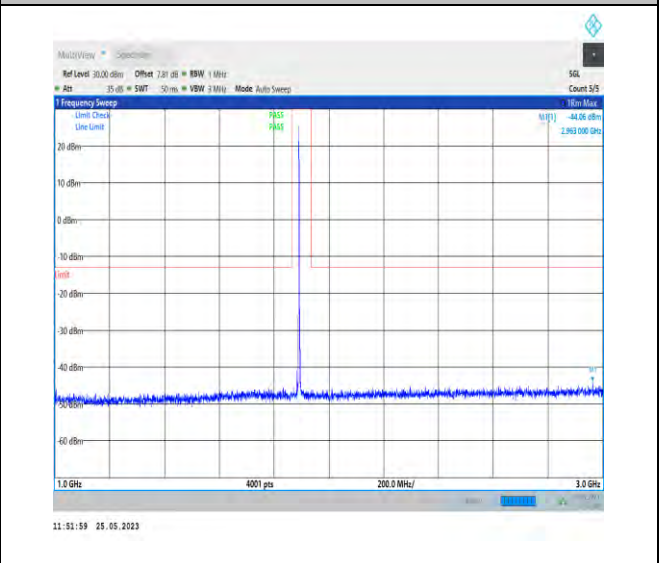
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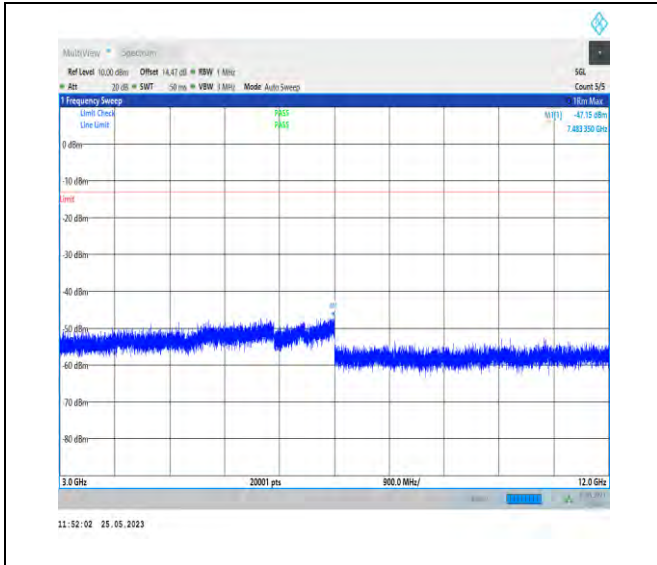
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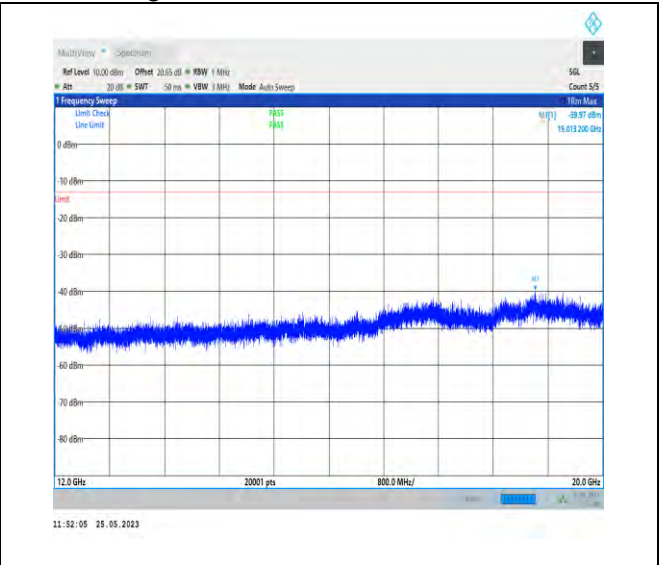
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NTNV_N2_PC3_15_20_H_TID1_N/A_3000_12000



NTNV_N2_PC3_15_20_H_TID1_N/A_12000_20000



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Field Strength of Spurious Radiation

Test Band = n2_20MHz _ TM1

Test Channel = Low ANT15

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.1800	40.88	-45.51	29.98	-69.91	-13.00	56.91	124	30	Horizontal
2	5553.2700	40.66	-45.15	32.97	-66.78	-13.00	53.78	186	3	Horizontal
3	7404.3600	39.67	-43.40	36.49	-62.50	-13.00	49.50	126	212	Horizontal
4	9255.4500	34.68	-40.23	38.38	-62.43	-13.00	49.43	136	256	Horizontal
5	11106.5400	29.90	-37.93	39.09	-64.20	-13.00	51.20	192	0	Horizontal
6	12957.6300	28.48	-37.24	39.79	-64.23	-13.00	51.23	175	121	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.1800	41.17	-45.51	29.98	-69.62	-13.00	56.62	145	209	Vertical
2	5553.2700	39.95	-45.15	32.97	-67.49	-13.00	54.49	188	46	Vertical
3	7404.3600	38.73	-43.40	36.49	-63.44	-13.00	50.44	175	105	Vertical
4	9255.4500	34.68	-40.23	38.38	-62.43	-13.00	49.43	142	30	Vertical
5	11106.5400	29.76	-37.93	39.09	-64.34	-13.00	51.34	165	90	Vertical
6	12957.6300	29.26	-37.24	39.79	-63.45	-13.00	50.45	183	4	Vertical



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Test Band = n2_20MHz _ TM1

Test Channel = Mid ANT15

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.1800	40.74	-45.68	30.12	-70.08	-13.00	57.08	288	16	Horizontal
2	5613.2700	39.56	-45.04	33.07	-67.67	-13.00	54.67	142	166	Horizontal
3	7484.3600	38.54	-43.18	36.45	-63.45	-13.00	50.45	126	121	Horizontal
4	9355.4500	34.14	-40.00	38.46	-62.67	-13.00	49.67	291	360	Horizontal
5	11226.5400	31.54	-37.40	39.11	-62.01	-13.00	49.01	184	75	Horizontal
6	13097.6300	27.65	-37.01	39.87	-64.74	-13.00	51.74	173	331	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.1800	40.88	-45.68	30.12	-69.94	-13.00	56.94	142	166	Vertical
2	5613.2700	40.40	-45.04	33.07	-66.83	-13.00	53.83	174	357	Vertical
3	7484.3600	37.80	-43.18	36.45	-64.19	-13.00	51.19	185	31	Vertical
4	9355.4500	34.87	-40.00	38.46	-61.94	-13.00	48.94	169	0	Vertical
5	11226.5400	30.86	-37.40	39.11	-62.69	-13.00	49.69	192	121	Vertical
6	13097.6300	28.77	-37.01	39.87	-63.62	-13.00	50.62	143	106	Vertical



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Test Band = n2_20MHz _ TM1

Test Channel = High ANT15

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.1800	40.61	-45.85	30.27	-70.23	-13.00	57.23	142	166	Horizontal
2	5673.2700	39.36	-44.91	33.29	-67.52	-13.00	54.52	175	60	Horizontal
3	7564.3600	37.62	-43.00	36.41	-64.24	-13.00	51.24	149	104	Horizontal
4	9455.4500	34.42	-40.05	38.48	-62.42	-13.00	49.42	182	359	Horizontal
5	11346.5400	30.90	-37.40	39.11	-62.65	-13.00	49.65	126	210	Horizontal
6	13237.6300	28.16	-37.08	39.96	-64.21	-13.00	51.21	251	242	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.1800	40.38	-45.85	30.27	-70.46	-13.00	57.46	241	73	Vertical
2	5673.2700	39.38	-44.91	33.29	-67.50	-13.00	54.50	188	44	Vertical
3	7564.3600	37.65	-43.00	36.41	-64.21	-13.00	51.21	170	239	Vertical
4	9455.4500	34.74	-40.05	38.48	-62.10	-13.00	49.10	140	301	Vertical
5	11346.5400	30.18	-37.40	39.11	-63.37	-13.00	50.37	156	239	Vertical
6	13237.6300	27.50	-37.08	39.96	-64.87	-13.00	51.87	291	285	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.700000	-0.000235	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	0.600000	0.000247	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-0.800000	-0.000239	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VL	NT	-1.800000	-0.000786	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VN	NT	0.700000	0.000239	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VH	NT	-3.800000	-0.001689	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-2.300000	-0.003256	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-3.600000	-0.003323	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-4.600000	-0.001326	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-5.200000	-0.002564	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-4.400000	-0.001168	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-3.600000	-0.002367	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-2.800000	-0.002415	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-0.700000	-0.000693	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-3.300000	-0.001634	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-30	-0.800000	-0.000336	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-20	0.900000	0.000254	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-10	-2.600000	-0.002463	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	0	-2.700000	-0.002136	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	10	-3.500000	-0.001254	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	20	-1.300000	-0.000687	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	30	-3.200000	-0.001635	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	40	-4.200000	-0.002242	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	50	0.500000	0.000234	PASS

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