



Appendix B.50

NR Band n48



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT2

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
N48	30	10	DFT-QPSK	L	Inner_1RB_Left	21.04	22.04	23.00	PASS
N48	30	10	DFT-16QAM	L	Inner_1RB_Left	20.12	21.12	23.00	PASS
N48	30	10	DFT-QPSK	M	Inner_1RB_Left	21.28	22.28	23.00	PASS
N48	30	10	DFT-16QAM	M	Inner_1RB_Left	20.37	21.37	23.00	PASS
N48	30	10	DFT-QPSK	H	Inner_1RB_Left	21.11	22.11	23.00	PASS
N48	30	10	DFT-16QAM	H	Inner_1RB_Left	20.2	21.2	23.00	PASS
N48	30	20	DFT-QPSK	L	Inner_1RB_Left	21.35	22.35	23.00	PASS
N48	30	20	DFT-16QAM	L	Inner_1RB_Left	20.38	21.38	23.00	PASS
N48	30	20	DFT-QPSK	M	Inner_1RB_Left	21.4	22.4	23.00	PASS
N48	30	20	DFT-16QAM	M	Inner_1RB_Left	20.45	21.45	23.00	PASS
N48	30	20	DFT-QPSK	H	Inner_1RB_Left	21.28	22.28	23.00	PASS
N48	30	20	DFT-16QAM	H	Inner_1RB_Left	20.33	21.33	23.00	PASS
N48	30	30	DFT-QPSK	L	Inner_1RB_Left	21.28	22.28	23.00	PASS
N48	30	30	DFT-16QAM	L	Inner_1RB_Left	20.37	21.37	23.00	PASS
N48	30	30	DFT-QPSK	M	Inner_1RB_Left	21.61	22.61	23.00	PASS
N48	30	30	DFT-16QAM	M	Inner_1RB_Left	20.63	21.63	23.00	PASS
N48	30	30	DFT-QPSK	H	Inner_1RB_Left	21.23	22.23	23.00	PASS
N48	30	30	DFT-16QAM	H	Inner_1RB_Left	20.33	21.33	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Left	21.31	22.31	23.00	PASS



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N48	30	40	DFT-PI2BPSK	L	Inner_1RB_Right	21.49	22.49	23.00	PASS
N48	30	40	DFT-PI2BPSK	L	Outer_Full	20.88	21.88	23.00	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Left	21.28	22.28	23.00	PASS
N48	30	40	DFT-QPSK	L	Inner_1RB_Right	21.39	22.39	23.00	PASS
N48	30	40	DFT-QPSK	L	Outer_Full	20.27	21.27	23.00	PASS
N48	30	40	DFT-16QAM	L	Inner_1RB_Left	20.2	21.2	23.00	PASS
N48	30	40	DFT-16QAM	L	Inner_1RB_Right	20.48	21.48	23.00	PASS
N48	30	40	DFT-16QAM	L	Outer_Full	19.74	20.74	23.00	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Left	19.13	20.13	23.00	PASS
N48	30	40	DFT-64QAM	L	Inner_1RB_Right	19.21	20.21	23.00	PASS
N48	30	40	DFT-64QAM	L	Outer_Full	18.56	19.56	23.00	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Left	16.7	17.7	23.00	PASS
N48	30	40	DFT-256QAM	L	Inner_1RB_Right	16.85	17.85	23.00	PASS
N48	30	40	DFT-256QAM	L	Outer_Full	16.73	17.73	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Left	21.67	22.67	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Inner_1RB_Right	21.36	22.36	23.00	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	20.86	21.86	23.00	PASS
N48	30	40	DFT-QPSK	M	Inner_1RB_Left	21.62	22.62	23.00	PASS



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N48	30	40	DFT-QPSK	M	Inner_1RB_Rig ht	21.4	22.4	23.00	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	20.37	21.37	23.00	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Left	20.66	21.66	23.00	PASS
N48	30	40	DFT-16QAM	M	Inner_1RB_Rig ht	20.43	21.43	23.00	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	19.31	20.31	23.00	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Left	19.1	20.1	23.00	PASS
N48	30	40	DFT-64QAM	M	Inner_1RB_Rig ht	18.82	19.82	23.00	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	18.87	19.87	23.00	PASS
N48	30	40	DFT- 256QAM	M	Inner_1RB_Left	17	18	23.00	PASS
N48	30	40	DFT- 256QAM	M	Inner_1RB_Rig ht	16.68	17.68	23.00	PASS
N48	30	40	DFT- 256QAM	M	Outer_Full	16.85	17.85	23.00	PASS
N48	30	40	DFT- PI2BPSK	H	Inner_1RB_Left	21.38	22.38	23.00	PASS
N48	30	40	DFT- PI2BPSK	H	Inner_1RB_Rig ht	21.4	22.4	23.00	PASS
N48	30	40	DFT- PI2BPSK	H	Outer_Full	20.79	21.79	23.00	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Left	21.4	22.4	23.00	PASS
N48	30	40	DFT-QPSK	H	Inner_1RB_Rig ht	21.42	22.42	23.00	PASS
N48	30	40	DFT-QPSK	H	Outer_Full	20.32	21.32	23.00	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Left	20.39	21.39	23.00	PASS
N48	30	40	DFT-16QAM	H	Inner_1RB_Rig	20.42	21.42	23.00	PASS



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N48	30	40	DFT-16QAM	H	Outer_Full	19.31	20.31	23.00	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Left	18.89	19.89	23.00	PASS
N48	30	40	DFT-64QAM	H	Inner_1RB_Rig ht	18.99	19.99	23.00	PASS
N48	30	40	DFT-64QAM	H	Outer_Full	18.85	19.85	23.00	PASS
N48	30	40	DFT- 256QAM	H	Inner_1RB_Left	16.69	17.69	23.00	PASS
N48	30	40	DFT- 256QAM	H	Inner_1RB_Rig ht	16.74	17.74	23.00	PASS
N48	30	40	DFT- 256QAM	H	Outer_Full	16.8	17.8	23.00	PASS



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Test Result for MIMO

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power Ant2	Power Ant0	Total Power (dBm/10MHz)	EIRP (dBm/10MHz)	Verdict
N48	30	10	CP-QPSK	L	Inner_1RB_Left	16.7	15.34	19.08	20.08	PASS
N48	30	10	CP-16QAM	L	Inner_1RB_Left	16.45	14.84	18.73	19.73	PASS
N48	30	10	CP-QPSK	M	Inner_1RB_Left	16.83	15.89	19.4	20.4	PASS
N48	30	10	CP-16QAM	M	Inner_1RB_Left	16.45	15.23	18.89	19.89	PASS
N48	30	10	CP-QPSK	H	Inner_1RB_Left	16.67	15.18	19	20	PASS
N48	30	10	CP-16QAM	H	Inner_1RB_Left	16.44	14.74	18.68	19.68	PASS
N48	30	20	CP-QPSK	L	Inner_1RB_Left	16.9	15.51	19.27	20.27	PASS
N48	30	20	CP-16QAM	L	Inner_1RB_Left	16.62	14.99	18.89	19.89	PASS
N48	30	20	CP-QPSK	M	Inner_1RB_Left	17.01	15.67	19.4	20.4	PASS
N48	30	20	CP-16QAM	M	Inner_1RB_Left	16.69	15.17	19.01	20.01	PASS
N48	30	20	CP-QPSK	H	Inner_1RB_Left	16.88	15.81	19.39	20.39	PASS
N48	30	20	CP-16QAM	H	Inner_1RB_Left	16.31	15.29	18.84	19.84	PASS
N48	30	30	CP-QPSK	L	Inner_1RB_Left	16.87	15.58	19.28	20.28	PASS
N48	30	30	CP-16QAM	L	Inner_1RB_Left	16.63	15.11	18.95	19.95	PASS
N48	30	30	CP-QPSK	M	Inner_1RB_Left	17.13	15.55	19.42	20.42	PASS
N48	30	30	CP-16QAM	M	Inner_1RB_Left	16.82	15.05	19.03	20.03	PASS
N48	30	30	CP-QPSK	H	Inner_1RB_Left	16.87	15.95	19.44	20.44	PASS
N48	30	30	CP-16QAM	H	Inner_1RB_Left	16.58	15.46	19.07	20.07	PASS
N48	30	40	CP-QPSK	L	Inner_1RB_Left	16.89	15.5	19.26	20.26	PASS



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N48	30	40	CP-QPSK	L	Inner_1RB_Rig ht	17.18	15.98	19.63	20.63	PASS
N48	30	40	CP-QPSK	L	Outer_Full	13.99	12.73	16.42	17.42	PASS
N48	30	40	CP-16QAM	L	Inner_1RB_Left	16.67	14.91	18.89	19.89	PASS
N48	30	40	CP-16QAM	L	Inner_1RB_Rig ht	16.72	15.42	19.13	20.13	PASS
N48	30	40	CP-16QAM	L	Outer_Full	14.03	12.75	16.45	17.45	PASS
N48	30	40	CP-64QAM	L	Inner_1RB_Left	15.14	13.36	17.35	18.35	PASS
N48	30	40	CP-64QAM	L	Inner_1RB_Rig ht	15.17	13.92	17.6	18.6	PASS
N48	30	40	CP-64QAM	L	Outer_Full	13.01	11.78	15.45	16.45	PASS
N48	30	40	CP- 256QAM	L	Inner_1RB_Left	13.21	11.54	15.47	16.47	PASS
N48	30	40	CP- 256QAM	L	Inner_1RB_Rig ht	13.37	12.04	15.77	16.77	PASS
N48	30	40	CP- 256QAM	L	Outer_Full	13.04	11.82	15.48	16.48	PASS
N48	30	40	CP-QPSK	M	Inner_1RB_Left	17.23	15.54	19.48	20.48	PASS
N48	30	40	CP-QPSK	M	Inner_1RB_Rig ht	16.99	15.59	19.36	20.36	PASS
N48	30	40	CP-QPSK	M	Outer_Full	14	12.53	16.34	17.34	PASS
N48	30	40	CP-16QAM	M	Inner_1RB_Left	16.81	14.97	19	20	PASS
N48	30	40	CP-16QAM	M	Inner_1RB_Rig ht	16.39	14.97	18.75	19.75	PASS
N48	30	40	CP-16QAM	M	Outer_Full	13.98	12.49	16.31	17.31	PASS
N48	30	40	CP-64QAM	M	Inner_1RB_Left	15.24	13.45	17.45	18.45	PASS
N48	30	40	CP-64QAM	M	Inner_1RB_Rig	14.99	13.5	17.32	18.32	PASS



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N48	30	40	CP-64QAM	M	Outer_Full	12.99	11.63	15.37	16.37	PASS
N48	30	40	CP-256QAM	M	Inner_1RB_Left	13.36	11.63	15.59	16.59	PASS
N48	30	40	CP-256QAM	M	Inner_1RB_Rig ht	13.06	11.52	15.37	16.37	PASS
N48	30	40	CP-256QAM	M	Outer_Full	13.02	11.68	15.41	16.41	PASS
N48	30	40	CP-QPSK	H	Inner_1RB_Left	16.87	15.75	19.36	20.36	PASS
N48	30	40	CP-QPSK	H	Inner_1RB_Rig ht	17.11	15.82	19.52	20.52	PASS
N48	30	40	CP-QPSK	H	Outer_Full	13.93	12.86	16.44	17.44	PASS
N48	30	40	CP-16QAM	H	Inner_1RB_Left	16.67	15.16	18.99	19.99	PASS
N48	30	40	CP-16QAM	H	Inner_1RB_Rig ht	16.6	15.14	18.94	19.94	PASS
N48	30	40	CP-16QAM	H	Outer_Full	13.86	12.81	16.38	17.38	PASS
N48	30	40	CP-64QAM	H	Inner_1RB_Left	15.06	13.63	17.41	18.41	PASS
N48	30	40	CP-64QAM	H	Inner_1RB_Rig ht	15.2	13.75	17.55	18.55	PASS
N48	30	40	CP-64QAM	H	Outer_Full	12.89	11.85	15.41	16.41	PASS
N48	30	40	CP-256QAM	H	Inner_1RB_Left	13.11	11.86	15.54	16.54	PASS
N48	30	40	CP-256QAM	H	Inner_1RB_Rig ht	13.23	11.83	15.6	16.6	PASS
N48	30	40	CP-256QAM	H	Outer_Full	12.96	11.89	15.47	16.47	PASS



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Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N48	30	30	DFT-256QAM	L	Outer_Full	9.52	≤13	PASS
N48	30	30	CP-256QAM	L	Outer_Full	9.64	≤13	PASS
N48	30	30	DFT-256QAM	M	Outer_Full	9.80	≤13	PASS
N48	30	30	CP-256QAM	M	Outer_Full	9.94	≤13	PASS
N48	30	30	DFT-256QAM	H	Outer_Full	9.26	≤13	PASS
N48	30	30	CP-256QAM	H	Outer_Full	9.90	≤13	PASS

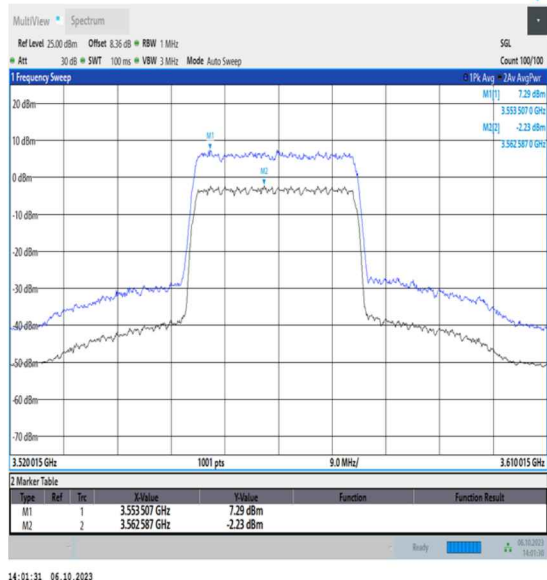


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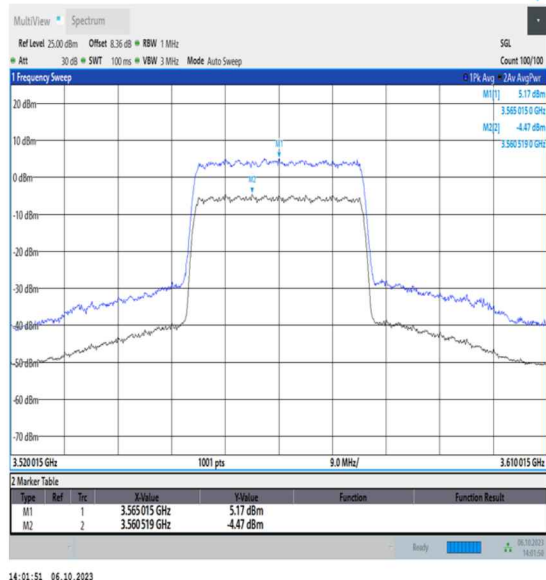
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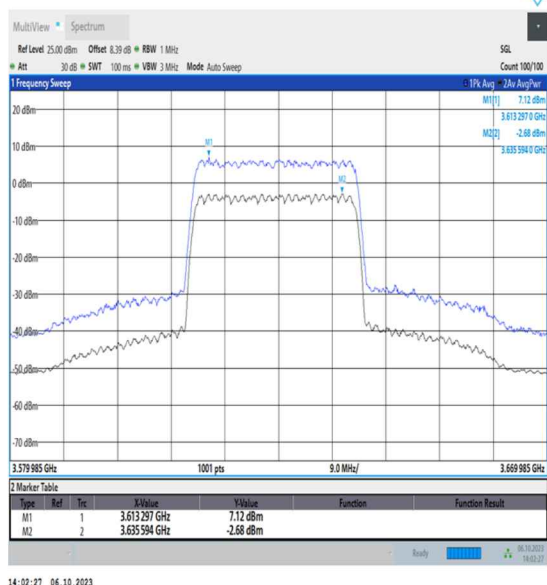
Test Graphs



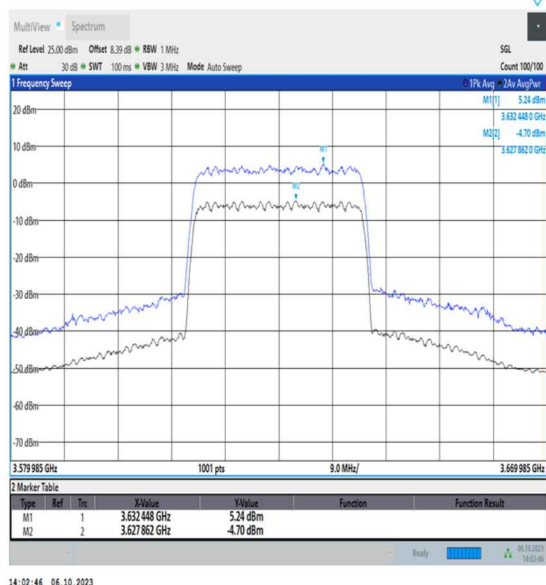
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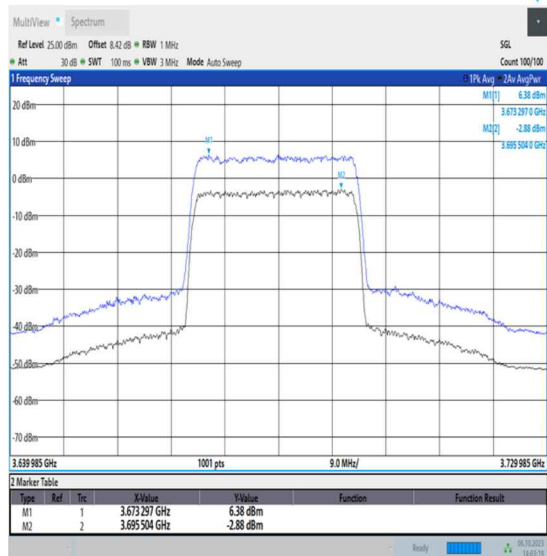
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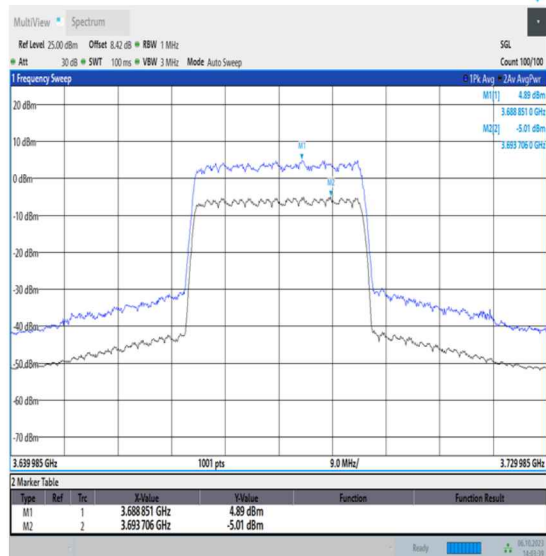
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NTNV_N48_PC3_30_30_H_TID1_#1



NTNV_N48_PC3_30_30_H_TID2_#1





26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N48	30	30	DFT-QPSK	M	Outer_Full	26.716	28.200	PASS
N48	30	30	DFT-PI2BPSK	M	Outer_Full	26.754	28.200	PASS
N48	30	30	DFT-16QAM	M	Outer_Full	26.775	27.960	PASS
N48	30	30	DFT-64QAM	M	Outer_Full	26.765	27.900	PASS
N48	30	30	DFT-256QAM	M	Outer_Full	26.926	28.020	PASS
N48	30	30	CP-QPSK	M	Outer_Full	27.864	29.160	PASS
N48	30	30	CP-16QAM	M	Outer_Full	27.773	29.400	PASS
N48	30	30	CP-64QAM	M	Outer_Full	27.75	29.460	PASS
N48	30	30	CP-256QAM	M	Outer_Full	27.883	29.340	PASS



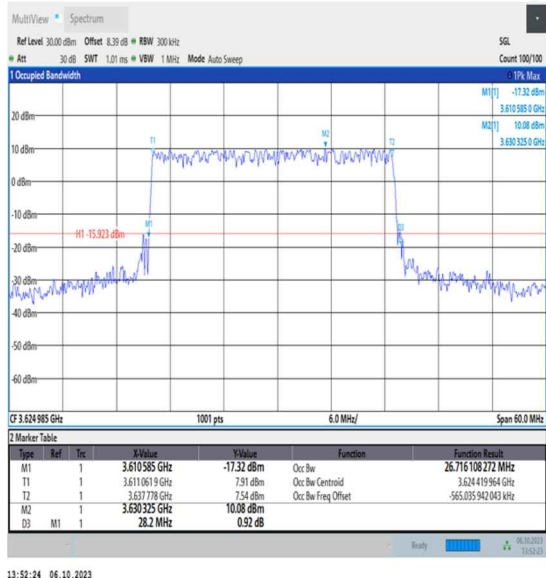
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch / Wireless Laboratory

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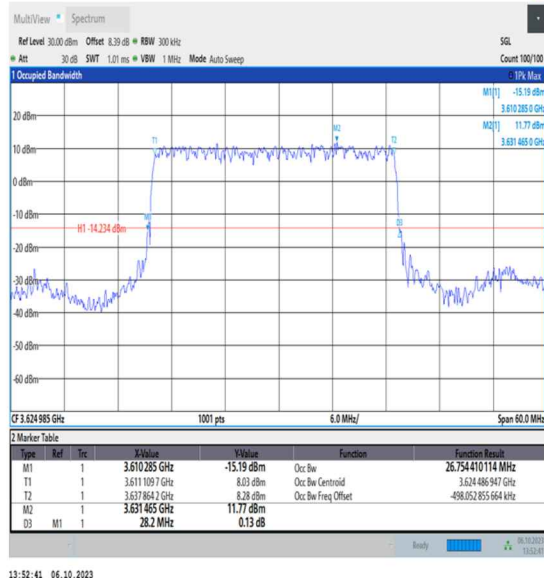
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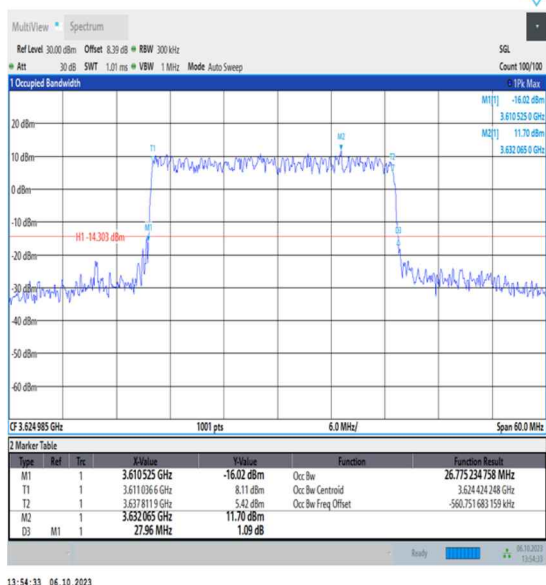
Test Graphs



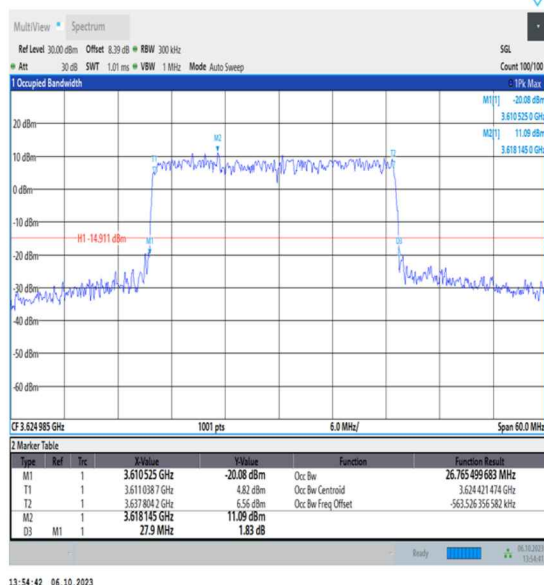
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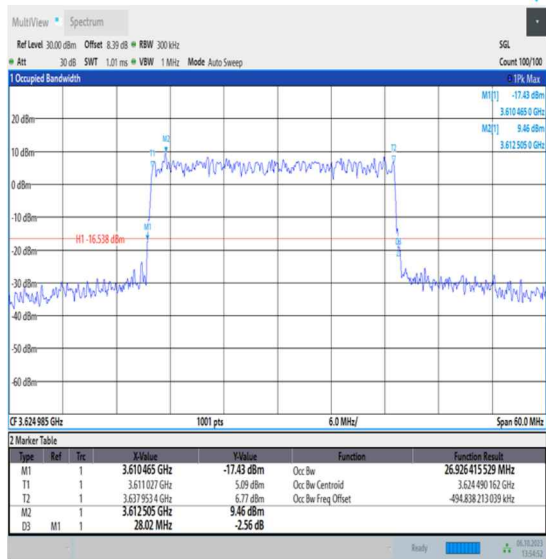


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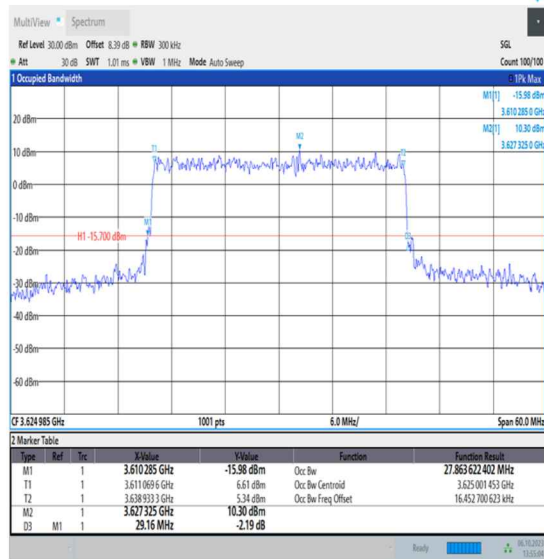


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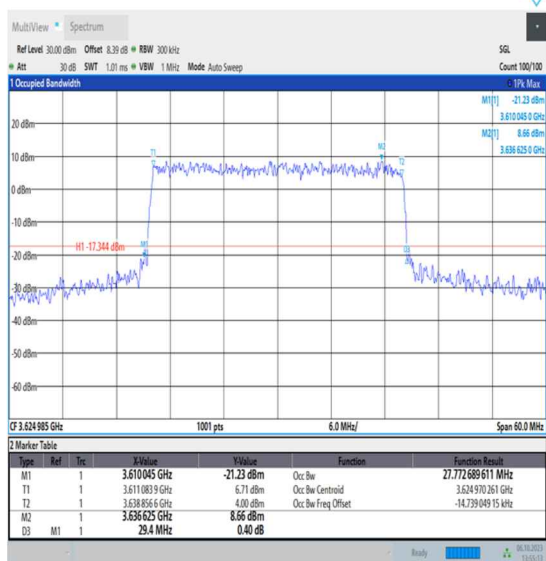




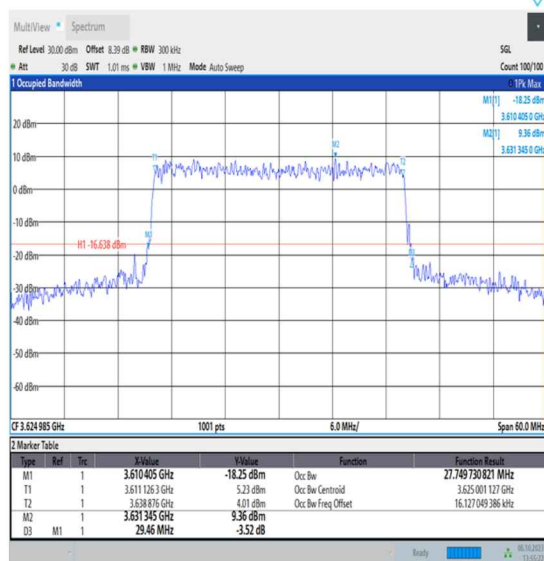
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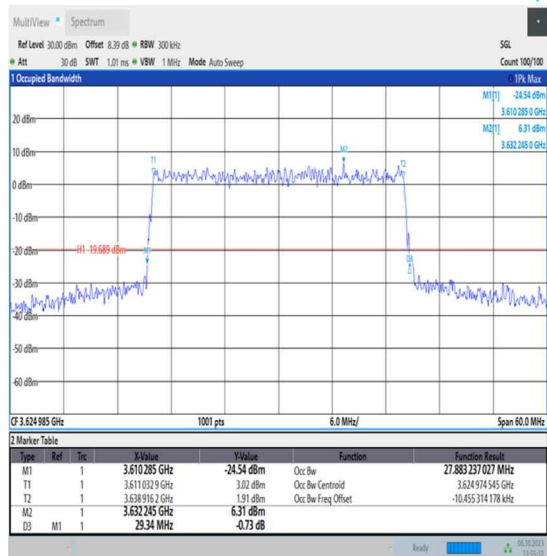


NTNV_N48_PC3_30_30_M_TID7_Ant2#1



NTNV_N48_PC3_30_30_M_TID8_Ant2#1





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NTNV_N48_PC3_30_30_M_TID9_Ant2#1



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